

Sequence Code	Sequence Name(s)
A_51_P172853	Cd14
A_51_P432484	Gnai2,Gia,Gnai-2,Galphai2
A_51_P283876	Bphl,2010012D11Rik,5730533B08Rik
A_51_P460828	Vps39,Vam6,Vam6P,mVam6,A230065P22Rik
A_51_P336622	Dexi,Myle,D16Bwg0586e,1810029J14Rik
A_51_P250036	V1re13
A_51_P485439	E130308A19Rik,MGC47072
A_51_P256384	Atp2b2,dfw,wms,wri,PMCA2,D6Abb2e
A_51_P237002	Ppp1r12a,Mypt1,D10Ert625e,1200015F06Rik,5730
A_51_P455620	A030013D21
A_51_P480290	D4Ert432e,2410019P08Rik
A_51_P485421	Igh-6,Igm,muH,Igh6,Igh-M
A_51_P356973	NAP017949-001
A_51_P432468	1110002N22Rik,FLJ22729
A_51_P126864	Chst11,C4s,C4ST,C4ST1,C4ST-1
A_51_P311379	Tnrc6a,Tnrc6,CAGH26,MGC11932,2010321I05Rik,3
A_51_P125607	4930565A21Rik
A_51_P336635	Xpo1,Crm1
A_51_P380215	Prkacb,Pkacb
A_51_P158216	Fyco1,Mem2,RUFY3,ZFYVE7,2810409M01Rik
A_51_P407580	Usp24,B130021E18,2700066K03Rik,2810030C21Ri
A_51_P271697	BC021891,KIAA1804,MGC27778,mKIAA1804
A_51_P186856	Krt2-5,K5,Tfip8,3300001P10Rik
A_51_P311342	Dfna5h,DFNA5,2310037D07Rik,4932441K13Rik
A_51_P185465	Slc29a3,Ent3,4933435C21Rik
A_51_P514449	Nr5a2,Ftf,LRH-1,D1Ert308e
A_51_P126817	Th1l,Th1,2410003I03Rik
A_51_P460851	Arf7,9130014L17Rik
A_51_P347452	Htatsf1,TAT-SF1,1600023H17Rik,2600017A12Rik,2i
A_51_P455647	Car2,CaII,Car-2,Ltw-5,Lvtw-5
A_51_P407594	Pdcd11,ALG-4,Pdcd7,mKIAA0185,1110021I22Rik
A_51_P514405	Slc2a5,Glut5,Slc5a,MGC32452
A_51_P453826	Olf1r1226,MOR233-2
A_51_P394474	Pde6b,r,rd,rd1,Pdeb,rd-1,rd10
A_51_P245989	Ccr2,CKR2,CCR2A,CCR2B,CKR2A,CKR2B,mJE-R,1
A_51_P493671	Hs3st2,6430516N12Rik
A_51_P199135	Cd83
A_51_P347467	Utp14a,JsdX,NY-CO-16,SDCCAG16,MGC105191,m
A_51_P474288	1700027D21Rik,1700022B01Rik
A_51_P125679	2410076I21Rik,4930527A11Rik
A_51_P444874	Nik
A_51_P108935	Iars2,MGC63429,2010002H18Rik
A_51_P253224	1700086D15Rik
A_51_P126835	2700007P21Rik,4930448O08Rik
A_51_P172409	A_51_P172409
A_51_P239177	2210421G13Rik
A_51_P199104	Casq1,CSQ,CSQ1,CSQ-1
A_51_P288618	Dusp11,2010300F21Rik
A_51_P108948	Kcmf1,Pmcf,Debt91,1700094M07Rik
A_51_P125648	1300015B04Rik

A_51_P434776 2610003J06Rik
A_51_P210591 Fcer2a,CD23,Fce2,Ly-42
A_51_P460844 Blvrb,MGC11726,MGC27866
A_51_P341717 F730004D16Rik,CLM1,CLIM1,CLM-1,Digr2,IREM1,F
A_51_P477522 Hesx1,Rpx,HES-1
A_51_P105927 Rasl12,4631404111Rik
A_51_P321235 Mpz,P0,Mpp,P>0<,P-zero,P>zero<
A_51_P502075 1810009J06Rik
A_51_P366704 Acox1,AOX,D130055E20Rik
A_51_P237097 Pvr
A_51_P125695 Scn8a,dmu,med,nmf2,seal,NaCh6,nmf58,Nav1.6,C6
A_51_P125691 Cdca4,HEPP,2410018C03Rik
A_51_P502068 Rom1,Rom-1,Tspan23
A_51_P230904 Copz2,zeta2-COP,1110012D12Rik
A_51_P119923 Pa2g4,Ebp1,38kDa,Plfap
A_51_P169908 Herc5,CEB1,Herc6,1700121D12Rik,2510038N07Rik
A_51_P172424 LOC435285
A_51_P199124 Olfr1256,MOR231-1
A_51_P125663 Dkk4,Dkk-4,MGC25705
A_51_P105908 NAP057026-1
A_51_P119932 4933432P15Rik,mKIAA0621,1810044B20Rik,26100
A_51_P279437 1700018O18Rik
A_51_P477540 Lyzl4,Lyc4,1810009N24Rik
A_51_P455694 Gabpb2,Gabpb2-1,5830427M07,9430006E19Rik
A_51_P245939 Rnu22,snoRNA U22
A_51_P502054 Gtf2b,MGC6859
A_51_P326483 Pus3,2610020J05Rik
A_51_P286488 Ier3,cl-3,IEX-1,gly96
A_51_P199175 2700038G22Rik
A_51_P485472 4933430H15Rik
A_51_P286496 Il2rb,p70,CD122,Il-2Rbeta,Il-2/15Rbeta
A_51_P199148 2010100O12Rik
A_51_P502043 4933427G23Rik
A_51_P172441 Eif5b,IF2,A030003E17Rik
A_51_P347431 AA408296
A_51_P134262 1700052K11Rik
A_51_P157737 Zfp180,HHZ168,D130011P11,2310040I01Rik
A_51_P172475 S100a1,S100,S100a
A_51_P119986 Kif16b,mKIAA1590,8430434E15Rik
A_51_P199187 2900024C23Rik
A_51_P356883 Npr3,Igj,stri,NPR-C
A_51_P452227 Parp11,HIN1L,5330431N24Rik
A_51_P341767 Parp14,KIAA1268,MGC29390,mKIAA1268,1600029
A_51_P383320 Rnf103,kf-1,Zfp103
A_51_P373424 Kcnf1,Kv5.1,Gm1182,MGC62472
A_51_P134253 BC021523,9930016O13
A_51_P199199 Pik3ap1,BCAP,1810044J04Rik
A_51_P502026 Rab33b
A_51_P100828 Prdx3,Aop1,Ef2l,Mer5,Prx3,SP22,TDXM,D0Tohi1
A_51_P193011 Kns2,Klc1,60/70kDa
A_51_P452266 Prp15,Prpb,15kDa
A_51_P100537 1700020H15

A_51_P383369 Odz3,Odz1,Ten-m3,mKIAA1455,2610100B16Rik
A_51_P204707 Olfr493,MOR204-35
A_51_P399504 Agps,ADAS,ADPS,ADAP-S,ADHAPS,ALDHPSY,583
A_51_P134228 Hlf,E230015K02Rik
A_51_P347494 Sdc3,Synd3,syn-3,MGC65603,MGC69616,mKIAA04
A_51_P204730 1500031L02Rik
A_51_P321250 AK031195
A_51_P238448 Ccnd3
A_51_P204740 Cd34
A_51_P193000 Bbs4,D9Ert464e
A_51_P159284 D030060M11Rik,MGC38070
A_51_P286436 Olfr434,MOR261-10
A_51_P373498 Olfr572,MOR10-2
A_51_P160083 1500035N22Rik
A_51_P452287 Sec22I3,SEC22C,4932412K21,C530046H07,59304C
A_51_P204772 A730067D02
A_51_P452280 Mtcp1
A_51_P383347 4930513O06Rik
A_51_P373441 0610039D01Rik,Cuta,1810022E02Rik,1810060C03F
A_51_P263667 Acrv1,Msa63
A_51_P248293 Taf4b
A_51_P238455 Cdh4,Rcad,R-cadherin
A_51_P493587 Zfp398,6430539K21,5730513I23Rik
A_51_P426533 Cdcp1,9030022E12Rik,E030027H19Rik
A_51_P373488 Enam
A_51_P219721 2810409H07Rik,2510025G09Rik,2810405J23Rik
A_51_P219722 2310021H06Rik,2310074B19Rik
A_51_P485542 Ctps2,CTPsH
A_51_P502082 Rrm1,RnrM1
A_51_P193053 AF085738
A_51_P485594 4921526G09Rik,KIAA4135,mKIAA4135
A_51_P426513 Sult3a1,Sultx2,Sult-x2
A_51_P100852 A630077B13Rik
A_51_P100856 Fn1,Fn-1,E330027I09
A_51_P502092 BC024137
A_51_P178114 Abhd9,2310063B19Rik
A_51_P283920 Rpl36a,L44L,Rpl44
A_51_P271107 Mcf2,Dbf,Mcf-2,B230117G22Rik
A_51_P286460 Hist1h2ae,1190022L06
A_51_P134294 Pfdn5,Eig1,MM-1,D15Ert4697e,1190001O17Rik,170
A_51_P219266 Tmprss6,1300008A22Rik
A_51_P238405 0610009O20Rik,2700004E22Rik
A_51_P171075 Csf2,Csfgm,Gm-CSf
A_51_P277416 D6Wsu176e,Fam3c
A_51_P118637 3110050K21Rik,2600010B19Rik,4930570G11Rik
A_51_P292582 Elovl2,Scs2
A_51_P356822 Vps13c
A_51_P229957 Olfr541,MOR253-3
A_51_P256066 Tiam2,STEF,mKIAA2016,3000002F19Rik
A_51_P493522 Kazald1,Bono1,IGFBP-rP10
A_51_P238425 Cbr2,MLCR
A_51_P126987 1110060M21Rik,Spuf,SCIRP10

A_51_P189803 Cdk5r2,p39
A_51_P292550 Chdh,MGC30702,D630034H06Rik
A_51_P112203 1110020C03Rik,C130004B06Rik
A_51_P159225 Kcnj15,IRKK,Kir4.2,4930414N08Rik
A_51_P256093 Map2k6,MEK6,MKK6,Prkmk6,SAPKK3
A_51_P436669 Pclo,Acz,Pico,mKIAA0559
A_51_P239094 4930447A16Rik
A_51_P517834 AK032863
A_51_P171052 C530036F05Rik
A_51_P189814 Cldn5,MBEC1,Tmvcf,MGC102088
A_51_P485556 Immt,HMP,P87,P89,P87/89,1700082C19Rik
A_51_P159201 Junb
A_51_P112223 Gsta4,5.7,GST,mGsta4,GST 5.7
A_51_P445882 Tcrb-J,5830405F06Rik
A_51_P248230 Trpv3
A_51_P361580 Rab11b
A_51_P248234 Nbr1,mKIAA0049
A_51_P271136 V1rb7
A_51_P239003 ENSMUST00000057590
A_51_P376741 4933402J07
A_51_P356871 NAP057003-1
A_51_P283954 Tbc1d17,MGC27642
A_51_P517870 Nfatc1,NFAT2,NFATc,NF-ATc,Nfatcb,2210017P03R
A_51_P292566 Xpot,EXPORTIN-T,1110004L07Rik,3110065H13Rik
A_51_P283968 Adamts18,ADAMTS21,9630038L21,E130314N14Rik
A_51_P493558 Rnpep,MGC29229
A_51_P292527 4933406E20Rik,Ph-4
A_51_P455157 Mybpc2,MGC28149
A_51_P432199 Sap30,30kDa
A_51_P460954 Ccl6,c10,MRP-1,Scya6
A_51_P460958 2610507L03Rik
A_51_P438083 Slc6a13,GAT3,Gabt3
A_51_P336509 Zfpn2,FOG2,FOG-2,B330005D23Rik
A_51_P189870 3230401I01Rik,mKIAA1970
A_51_P112237 1110030H02Rik,KIAA0759,mKIAA0759
A_51_P438039 1700063I17Rik
A_51_P336544 Otub2,OTB2,OTU2,2010015L18Rik,4930586I02Rik
A_51_P359462 Hist2h3c1,H3f2,H3-615,Hist2h3ca1
A_51_P517843 Glipr2,GAPR-1,5730414A08Rik
A_51_P283997 AU014645
A_51_P445865 Slco4c1,OATPX,OATP-H,OATP-M1,OATP4C1,PRO
A_51_P432180 Slc16a6,MCT6,ESTM12,MGC27628
A_51_P455166 Prlpa,PLP-A
A_51_P169495 Mov10,Mov-10
A_51_P186956 Adam2,Ftnb,Ph30-beta
A_51_P438057 Rpa3,14kDa,C330026P08Rik
A_51_P445823 TC978515
A_51_P230624 2010109K11Rik
A_51_P514730 2900073H19Rik
A_51_P446645 Wac,Wwp4,1110067P07Rik,A230035H12Rik
A_51_P186911 Olfr520,MOR101-1
A_51_P309805 Olfr584,MOR30-2

A_51_P414115 9130210N20Rik
A_51_P507880 8430415E04Rik
A_51_P262421 Kdelc1,EP58,Kdel1,1810049A15Rik,5730416C13Rik
A_51_P243454 4931431F19Rik
A_51_P347312 Ogfrl1,2210417C17Rik
A_51_P290299 4732464A07Rik
A_51_P309850 Ephb6,Mep,Cekl
A_51_P438002 Nmb,3110023K12Rik
A_51_P309854 Kcnn2,SK2,SKCA2
A_51_P414126 Rab19
A_51_P336599 Kcne3,MiRP2,2210017H05Rik
A_51_P157033 C130074G19Rik
A_51_P446665 5730427M17Rik
A_51_P446678 Mre11a,Mre11,Mre11b
A_51_P281586 Cnnm2,Acdp2
A_51_P172727 5730419I09Rik,C030008B15Rik
A_51_P514700 Spbc25,2600017H08Rik,2610205L13Rik
A_51_P438028 5830415L20Rik,2900022K02Rik
A_51_P213114 Mrpl4,1110017G11Rik
A_51_P169409 Arl5,2410015N24Rik,2810410P22Rik
A_51_P383689 Fkbp5,Dit1,51kDa,FKBP51,D17Ert592e
A_51_P477440 Sec23ip,D7Ert373e
A_51_P213153 Hspc171,MGC25457,1700006C06Rik,2610030K20R
A_51_P301566 Plat,tPA,t-PA,D8Ert2e,MGC18508
A_51_P100997 Serpinb3c,Scca2,Serpinb4,1110001H02Rik,1110013
A_51_P329722 5430419D17Rik
A_51_P100991 Gucy2c,Gcc,GC-C
A_51_P477419 1110019L22Rik
A_51_P477414 Echdc2,D4Ert765e,1300017C12Rik,2610009M20Ri
A_51_P446696 V1rc28
A_51_P366450 Zfp125,ZT2
A_51_P329711 Idi1,MGC8139,4832416K17Rik
A_51_P134142 Cyp2c70
A_51_P366413 8030498J20Rik
A_51_P452768 Cyp4f14,1300014O15Rik
A_51_P414160 3200001F09Rik,CAM,Smp1
A_51_P321102 Lmx1b,LMX1.1,LMX1.2
A_51_P213172 A630047E20Rik,9430001M19
A_51_P301549 F830021D11Rik,KIAA4127,mKIAA4127,1110020K19
A_51_P502150 Slc9a3r1,EBP-50,NHE-RF,NHERF-1,MGC95776
A_51_P502152 Slc19a1,RFC,RFC1,RFC-1
A_51_P452779 Pygl
A_51_P242403 Ldh3,Ldhc,Ldh-3,Ldh-x
A_51_P242400 Krt2-8,K8,Card2,EndoA,Krt-2.8
A_51_P321136 BC024479,MGC37388
A_51_P301537 4933413N12Rik
A_51_P366435 Wnt1,sw,Int-1,Wnt-1,swaying
A_51_P502107 Sbno1,sno,Sbno,MGC28589,9330180L10Rik
A_51_P115268 5730521P14Rik
A_51_P248595 Tmem27,NX17,NX-17,NX=17,collectrin,0610008J07I
A_51_P373134 4930435F18Rik
A_51_P169445 1700019B01Rik,BOIP

A_51_P204252 4921525D22Rik
A_51_P452702 1700026G02Rik
A_51_P383644 Amy1,Amy-1,C030014B17Rik
A_51_P100624 2310040M23Rik
A_51_P383648 Pdzk3,Gm82,KIAA0300,mKIAA0300,4930537L06Rik
A_51_P507801 F13a1,F13a,1200014I03Rik
A_51_P172752 Gpatc4,2610029K21Rik
A_51_P477458 Grid2,Lc,ho,cpr,tpr,Lc<J>,Ms10ac,MMS10-AC,GluRc
A_51_P477456 Cnot10,MGC37693,2600001P13Rik
A_51_P468912 Pcdhb1,PcdhbA
A_51_P178063 Rasa3,GAPIII,E130011G04
A_51_P204261 Atxn7I3,E030022H21Rik
A_51_P193563 Cdk7,Crk4,Cdkn7
A_51_P161946 E130012A19Rik
A_51_P373112 BC031781,MGC30618
A_51_P157042 Ctgf,Hcs24,Fisp12,fisp-12
A_51_P193573 Clk1,STY
A_51_P301508 Ski,MGC8300,BC004088,2310012I02Rik,2610001A1
A_51_P373122 Nsun6,NOPD1,4933403D21Rik,4933414E04Rik
A_51_P468939 Dcc
A_51_P219662 1300014I06Rik
A_51_P219603 Rplp1,Arpp1,MGC103133,2410042H16Rik,C430017
A_51_P267278 Slc15a2,Pept2,8430408C16Rik
A_51_P292299 Al854246
A_51_P242487 Tessp2
A_51_P426886 Gpi1,Amf,Org,Gpi-1,Gpi1s,Gpi-1r,Gpi-1s,Gpi-1t,Gpi1
A_51_P161929 Bzrp1,2510027D20Rik
A_51_P242493 1700030G11Rik,1700019A24Rik
A_51_P263756 Ndufa7,14.5kDa,2400007M02Rik
A_51_P312956 Grid2,Lc,ho,cpr,tpr,Lc<J>,Ms10ac,MMS10-AC,GluRc
A_51_P248580 Esrra,Err1,Nr3b1,Estrra,ERRalpha
A_51_P219614 ENSMUST00000025191
A_51_P164895 C330005L02Rik
A_51_P271068 Zfp393,Gzf,D4Ert561e,7420700M05Rik
A_51_P485688 Cdh6,cad6,K-cadherin,cadherin-6
A_51_P178022 Plekhg2,Clg,Cslg
A_51_P452798 Zfp524,0610012F07Rik,2300009P13Rik
A_51_P502184 Smarcc1,Rsc8,SRG3,BAF155
A_51_P185693 Slc2a2,Glut2,Glut-2
A_51_P157083 Gas1,Gas-1
A_51_P189733 2810007J24Rik
A_51_P193536 Ccs,Ccsd
A_51_P256549 1700010M22Rik
A_51_P189704 4921520G13Rik
A_51_P271074 5630401J11Rik
A_51_P284597 Scnm1,3110001I17Rik
A_51_P256533 Nxf2,Nxf-b,4930455N06Rik
A_51_P134184 AK016549
A_51_P219166 Mfap3l,NYD-sp9,mKIAA0626,4933428A15Rik,54304
A_51_P219634 4933437N03Rik,bM340H1.7
A_51_P432678 Itgb2l,pactolus,5033406G21Rik
A_51_P502194 9430067K14Rik

A_51_P256500 Spz1,1700027M20Rik
A_51_P189722 Cabin1,Cain,PPP3in,A330070M20Rik
A_51_P339331 9130417I07Rik
A_51_P256510 Gtpbp1,GP-1,Gtpbp
A_51_P189700 Pde11a,PDE11A1,6330414F14Rik,A630086N24Rik
A_51_P311137 Sgce,e-SG
A_51_P204286 2900064A13Rik,c11orf3
A_51_P445985 Slc12a3,NCC,TSC,NCCT
A_51_P239386 Ppp1r14c,KEPI,6330514J04Rik
A_51_P432659 Pex7,MmPEX7
A_51_P204295 Pts,PTPS
A_51_P486810 Gpx2,GPx-GI
A_51_P339305 Banp,SMAR1
A_51_P432651 Il3ra,CD123,SUT-1,CDw123
A_51_P426817 Olfr801,MOR110-10
A_51_P271021 8430437G11Rik,5730526F17Rik
A_51_P373187 0610009I22Rik,4930557M15Rik,5730490M08Rik
A_51_P189798 Olfr66,5'[b]1,MOR1-3,ORL532,5'beta1
A_51_P474015 3300002A11Rik,2700016B18Rik
A_51_P339344 4930429O20Rik
A_51_P493467 Kif22,Kid,Kif22a
A_51_P292276 Agrn
A_51_P293077 Men1,menin
A_51_P432641 Cxcl10,C7,IP10,CRG-2,INP10,IP-10,Ifi10,mob-1,Scy
A_51_P339356 Rnf24,D2Erttd504e,2810473M14Rik,4930505A13Rik
A_51_P493437 4733401N17
A_51_P164835 Ppl
A_51_P311125 Phf10,1810055P05Rik
A_51_P185627 Gpc2,MGC90563,2410016G05Rik
A_51_P468989 Olfr1389,MOR256-1
A_51_P292221 Kcnk3,TASK,cTBAK-1
A_51_P426837 8030411F24Rik
A_51_P429974 LOC378878
A_51_P505292 Gkn1,Fov,AMP-18,BRICD1,2200002K21Rik
A_51_P185664 Flnc,ABPL,Fln2,ABP-280,1110055E19Rik
A_51_P514668 Srp19,2310020D23Rik
A_51_P112174 Ahi1,Ahi-1,D10Bwg0629e,1700015F03Rik
A_51_P210901 A530054K11Rik
A_51_P455040 Hoxd3,Hox-4.1,Hox-5.5
A_51_P363871 March2,MGC7259,9530046H09Rik
A_51_P447894 Tgm4,TGP,Eapa1,9530008N10Rik
A_51_P292250 Ptafr,PAFR
A_51_P169795 Sbp,p25
A_51_P256590 BF682133
A_51_P311105 Scn10a,PN3,SNS,Nav1.8
A_51_P336403 2900064A13Rik,c11orf3
A_51_P429903 Ndph,ND,NDP
A_51_P147964 Stx18,1810035L21Rik,4933425D03Rik
A_51_P514675 Zcchc10,D11Erttd416e,2410141K03Rik
A_51_P271091 A130072N09Rik
A_51_P222252 Zfpn1a3,Aiolos,Zfn1a3
A_51_P429951 Crsp6,77kDa,Trap80,C330002H14Rik

A_51_P112151 Mogat1,mDC2,MGAT1,Dgat2l,Dgat2l1,0610030A14F
A_51_P210963 AI450236
A_51_P514647 Paip2,2310050K10Rik
A_51_P169783 Mare,Aag,HS-26,HS-40,CGTHBA,m(alpha)RE
A_51_P447874 Hspb7,27kDa,cvHsp,Hsp25-2,MGC107591
A_51_P311159 Pla2g2e
A_51_P147906 4921511H03Rik
A_51_P164845 4831416G18Rik
A_51_P186601 Mod1,Mdh-1,Mod-1,MGC91072,D9Ertd267e
A_51_P447835 Pla2g7
A_51_P222264 BC026657,Skt,6620402G01Rik,9430077C05Rik,E33
A_51_P222467 Abcg1,Abc8,White
A_51_P363818 Ptbp2,Ptb2,nPTB,brPTB
A_51_P286814 Ncor2,SMRT,N-CoR,SMRte
A_51_P147942 Igf1,Igf-1,Igf-I,C730016P09Rik
A_51_P112182 Tmprss7,Gm1748,B230219I23Rik
A_51_P445924 A_51_P445924
A_51_P286865 Wdr33,WDC146,1110001N06Rik,2310011G05Rik,28
A_51_P514623 Cd302,1110055L24Rik
A_51_P347673 Kcnj9,Girk3,Kir3.3,mbGIRK3,1700085N21Rik
A_51_P455027 Ebna1bp2,p40,Ebp2,Nobp,1810014B19Rik,B830003
A_51_P141610 Cables2,ik3-2
A_51_P222283 Mlycd,Mcd
A_51_P347634 BC052328,MGC59004,9830126M18
A_51_P125446 Lzic,1810030J04Rik
A_51_P366542 Cd97,TM7LN1
A_51_P180032 Shfdg1,DSS1,Shfg
A_51_P336480 1700058C01Rik
A_51_P172625 4432412L15Rik
A_51_P514601 Olfr1346,MOR103-6
A_51_P209921 9330159F19Rik
A_51_P199354 Lamc1,Lamb2
A_51_P402994 Ddx3y,Dby,D1Pas1-rs1,8030469F12Rik
A_51_P477716 Igsf4c,Tsll2,Igdf4c
A_51_P262773 Cdh2,CDHN,Ncad,N-cadherin
A_51_P301891 Nte,MSws
A_51_P333549 Reg2
A_51_P336491 Csnk1a1,Csnk1a,MGC29354,MGC30571,2610208K
A_51_P383584 Jmjd1b
A_51_P157577 Psd2,EFA6C,6330404E20Rik
A_51_P477736 4932415M13
A_51_P262757 2310076L09Rik,PAT-1
A_51_P213045 Smoc2,Smoc2l,1700056C05Rik,5430426J21Rik
A_51_P199352 2310015B20Rik
A_51_P383544 Klre1,NKG2l,Klre-1
A_51_P209914 Rpgr,Rp3h
A_51_P318381 Pgf,Plgf
A_51_P421876 Irf7
A_51_P157537 Mapkapk3,3PK,MAPKAP3,MapkKapk3
A_51_P477779 Rora,sg,ROR1,ROR2,ROR3,Nr1f1,staggerer,953002
A_51_P120589 Olfr181,MOR184-4
A_51_P134045 Pcsk2,PC2,Nec2,SPC2,Nec-2,Phpp-2,6330411F23R

A_51_P477768 AI842788,MGC67311
A_51_P429983 Supt5h
A_51_P213051 Prss25,Omi,mnd2,HtrA2
A_51_P157554 Brd7,BP75,CELTIX1,Ptpn13ip
A_51_P366501 Sec11I1,18kDa,Spc18,sid2895,Sid2895p,1810012EC
A_51_P181922 BC028663,Gm175
A_51_P134007 Ncl,C23,Nucl,D0Nds28,D1Nds28,B530004O11Rik
A_51_P199382 Elmo2,CED-12,mKIAA1834,1190002F24Rik
A_51_P172688 Stard3nl,MENTHO,0610035N01Rik,6530409L22Rik
A_51_P219594 1700123K08Rik
A_51_P341543 Defb7,mBD7,Defb15
A_51_P213099 A930010C08Rik
A_51_P172650 4933406P04Rik
A_51_P263407 1700041B20Rik
A_51_P339098 Serpina4-ps1,Klst,KALps
A_51_P193686 1700012B09Rik,MGC107243,1700007P19Rik
A_51_P421846 Ech1,MGC107274
A_51_P514684 Rnf146,2610509H23Rik
A_51_P157524 E2f4,2010111M04Rik
A_51_P402913 MGC47262
A_51_P218924 1110008E08Rik
A_51_P204504 Adat1,mADAT1,MMADAT1
A_51_P127635 LOC280458
A_51_P218937 Gjb6,Cx30,D14Bwg0506e
A_51_P421804 Timm10,Tim10a,2810011L15Rik
A_51_P263473 Sept3,Sep3,3110018K01Rik,B530002E20Rik
A_51_P263471 Clec4n,Clecsf10,dectin-2
A_51_P373208 AK129128,KIAA0372,mKIAA0372
A_51_P134030 Oas1e,oasl7
A_51_P383530 A530065I17Rik
A_51_P134014 Nfia,NF1-A,1110047K16Rik,9430022M17Rik
A_51_P238665 Otop3,2310011E08Rik
A_51_P164987 LOC330189
A_51_P204564 Gpiap1,P137,Gpiap,MMGPIP137
A_51_P193669 Gtf2f1,RAP74,2810405L04Rik
A_51_P286610 Rabgap1l,HHL,Hh1,mKIAA0471,5830411O09Rik,84:
A_51_P248097 Btdf7,FUP1,MGC49574,mKIAA1525,8030448M07,5
A_51_P238659 A230046K03Rik,mKIAA1033
A_51_P193612 Myh10,Myhn2,SMemb,Myhn-2,NMHC-B,MGC11576
A_51_P383524 Art3,4930569O04Rik
A_51_P426754 Anxa5,Anx5
A_51_P301804 St3gal1,Siat4,Siat4a,ST3Gall,MGC90735,St3gal-1
A_51_P373226 Arl2,2610009M23Rik
A_51_P157595 Snrp1c,U1-C
A_51_P286665 Rbl1,PRB1,p107
A_51_P238643 Eed,l7Rn5,l(7)5Rn
A_51_P219505 Slc41a2,SLC41A1-L1,A230035L05Rik
A_51_P485768 Ehmt1,mKIAA1876,D330003E03,EU-HMTase1,9230
A_51_P185584 9330128J19Rik
A_51_P271370 Wsb1,2700038M07Rik
A_51_P286671 Tsga10,Gm217,Mtsga10,4933432N21Rik
A_51_P219532 1110003O08Rik

A_51_P344177 Adam5,tMDCII
A_51_P218975 Kcns3,B230338H13,D12ErtD137e
A_51_P402909 Ncf2,NOXA2,Ncf-2,p67phox
A_51_P426739 Gpt1,Gpt-1,1300007J06Rik,2310022B03Rik
A_51_P256224 BC026432,MGC31345
A_51_P393193 LOC13909,Es31
A_51_P293307 2900042E01Rik
A_51_P210457 R74862
A_51_P271354 Brpf1,4833438B11Rik,4930540D11Rik
A_51_P339038 Gprc6a
A_51_P426724 Cox7b,MGC107263,1100001F07Rik,1110004F07Rik
A_51_P218953 Zfp536,mKIAA0390,9630010P11Rik
A_51_P505134 Rsad2,Vig1,cig5,2510004L01Rik
A_51_P485791 Cyp51
A_51_P248067 Ezh2,Enx-1,Enx1h,KIAA4065,MGC90723,mKIAA406
A_51_P256202 Ctsz,CTSX,D2Wsu143e
A_51_P144512 Rbm19,NPO,1200009A02Rik
A_51_P204582 Rnf5,NG2,2410131O05Rik
A_51_P370510 BC022687,Flj20080,C130001I08Rik
A_51_P339055 9330161F08Rik
A_51_P248031 9530096D07Rik
A_51_P271336 5730509C05Rik,Wich,Wire,Gm1176,1110014J05Rik
A_51_P502661 Loh11cr2a,BCSC-1,E130119J22,5830475I06Rik
A_51_P408689 Adsl
A_51_P505156 Dgkz,mDGK[z],E130307B02Rik
A_51_P218948 4921505C17Rik,AVO3,6030405M08Rik,D530039E1
A_51_P218984 Parp9,Bal,Bagl,MGC7868
A_51_P248008 Olfr1109,MOR172-5
A_51_P311235 lgh-1a
A_51_P292757 Acbd4,2010009P05Rik,2010015A21Rik
A_51_P210410 D030011N01Rik,Gm380
A_51_P271311 Gabt4,GAT4,D930045G19Rik,E130202I16Rik
A_51_P219074 Id2,ldb2
A_51_P485756 Nts,NN,NT,NT/N,NTS1,NMN-125,5033428E16Rik
A_51_P505172 Tcf19,5730403J10Rik
A_51_P364328 Rnf167,0610010G05Rik,5730408C10Rik
A_51_P339023 Rassf2,3830431H01Rik,9030412M04Rik
A_51_P256246 Tspan13,NET-6,Tm4sf13,1100001I23Rik
A_51_P164927 Gm1313
A_51_P505169 Donson,ORF60,1110025J21Rik
A_51_P429682 Ebp,Td,mSl,Pabp
A_51_P429681 Apbb2,TR2L,Zfra,Rirl1,2310007D03Rik
A_51_P448894 4930597L12Rik
A_51_P345298 XM_150021
A_51_P485731 Sytl1,Slp1,PSGL-1,MGC7008,9030417L18
A_51_P407832 Tcrb-V13,BV13S1
A_51_P186798 Fgf2,Fgfb,bFGF,Fgf-2
A_51_P210835 D830029A09Rik
A_51_P125716 Ogfr,2010013E17Rik
A_51_P125714 AW495713
A_51_P142614 AK077006
A_51_P311227 Etahi2,Rn3,MGC115770,1110013A17Rik

A_51_P407811 Olfr140,A16,Ora16,MOR235-1
A_51_P426792 Atp4a
A_51_P210403 4930403L05Rik
A_51_P210814 BC036718,MGC38179
A_51_P407841 Cd200r1,OX2R,Mox2r,CD200R
A_51_P393124 Gabra4,Gabra-4
A_51_P407849 4930502C15Rik
A_51_P143901 Tm9sf2,P76,D14Ert64e,1500001N15Rik
A_51_P190124 Crsp3,ESTM7,Med23,130kDa,mKIAA1216,3000002/
A_51_P271394 Olfr1206,MOR230-3,Olfr1206-ps1
A_51_P142653 Son,mKIAA1019,2900011L12Rik
A_51_P190159 AF357471
A_51_P336325 Orm1,Agp-1,Agp-2,Orm-1
A_51_P429602 1700001G17Rik
A_51_P414320 A130010J15Rik
A_51_P125745 Asns
A_51_P446469 Dok2,DokR,Frip
A_51_P239214 Boll,4930554P13Rik,4930597B14Rik
A_51_P347547 Klf10,Tieg,mGIF,Egral,Tieg1,EGR[a],Gdnfif
A_51_P393161 Zfp291,C430017I08,D530014O03Rik
A_51_P186703 Fbln5,A55,EVEC,DANCE
A_51_P436878 Sertad1,Sei1,TRIP-Br1,1110032C13Rik
A_51_P172168 Msr2,IgSR,Fcrh2,IFGP2,MMAN-g,FcRH2sc,moFcRH
A_51_P514902 Olfr446,MOR261-12
A_51_P186741 Sh3bgrl,1190008F14Rik
A_51_P421984 Timm22,Tim22,2610511O07Rik
A_51_P480320 Usp24,B130021E18,2700066K03Rik,2810030C21Ri
A_51_P414305 Cach,mCACH-1,1300004O04Rik,4930449F15Rik
A_51_P213314 4930555I21Rik,4930403G18Rik
A_51_P169255 Olfr190,MOR183-4
A_51_P199057 A630018G05Rik
A_51_P347562 Srgap2,FBP2,Fnbp2,srGAP3,9930124L22Rik
A_51_P199008 Zfp108
A_51_P157612 Robo2,mKIAA1568,2600013A04Rik,9430089E08Rik
A_51_P477614 Pitx3,ak,Ptx3
A_51_P242622 Colm,Clom,Gldn,Crgl2,Crlg2,CRG-L2
A_51_P514922 2610301G19Rik,MGC7730,mKIAA1967
A_51_P242634 Dusp16,MKP7,MKP-7,D6Ert6213e,3830417M17Rik
A_51_P157677 Pdlim3,ALP,Actn2lp
A_51_P172177 4930403O06Rik,ESTM39,1190006A08Rik
A_51_P186735 Tesk2,MGC29168
A_51_P452576 Zfp459,Rslcan-14,9930025G17Rik
A_51_P157634 Txnl2,PICOT
A_51_P219483 9530051K01Rik
A_51_P242608 6430604K15Rik
A_51_P272993 Hnt,6230410L23Rik,B230210G24Rik
A_51_P213352 Pdcl3,Viaf1,1110061A19Rik
A_51_P421950 Dscr2
A_51_P414396 Mmnr2,Emilin3,MGC41271,ENDOGLYX1,EndoGlyx-
A_51_P421958 Tmem23,MOB,SMS1,Sor1,MGC30540,9530058O11
A_51_P119890 4933425I22Rik,Mier1,mKIAA1610,5830411K19Rik
A_51_P199089 2210003I03Rik

A_51_P399477 6330582A15Rik
A_51_P452525 Gcap14,1700012P13Rik,2900054P12Rik
A_51_P324886 Scrt1
A_51_P477682 Prss12,Bssp-3
A_51_P189985 Ppan,SSF1,A230087P06Rik
A_51_P344668 Rab23,opb,opb2
A_51_P403834 Syngn3
A_51_P167763 Kcnk13,Gm1570,Gm1685,MGC31053,F730021E22F
A_51_P116616 Rbm14,p16,p16K,Sytip,1300007E16Rik
A_51_P204031 Hdac9,HD9,HD7B,HDRP,Mitr,Hdac7b,mKIAA0744,D
A_51_P499530 Ankrd10,4833425P12Rik
A_51_P290074 Fabp7,MRG,Blbp,B-FABP
A_51_P219444 Plcl2,Plce2,PLC-L2,mKIAA1092
A_51_P434697 Ube2e2,MGC28917
A_51_P242643 Lbxcor1,Corl1,4931440A04,C230094B15Rik
A_51_P204053 Hba-x
A_51_P277994 Oas2,Oasl11
A_51_P493285 Dapk3
A_51_P292490 2610507N02Rik
A_51_P204004 A730037L19Rik
A_51_P256759 0610007C21Rik,p18,Apr3,HSPC013
A_51_P499561 Sfrs12,SRrp86,SRrp508,8430401B01
A_51_P173735 Dock11,sph238,Zizimin2,8030476J24,5033414A21R
A_51_P324871 Cybasc3,MGC86114
A_51_P327632 lgsf3,V7,Cd101,lgsf2,mKIAA0466,1700016K10Rik,2
A_51_P344606 Prph1
A_51_P271268 1700067P10Rik
A_51_P256766 Raet1a,Raet1,Rae1alpha
A_51_P499551 Cd276,B7h3,B7RP-2,6030411F23Rik
A_51_P324860 Kirrel1,Neph1
A_51_P248387 C630049M13
A_51_P157698 Oaz3,AZ-3,Oaz-t
A_51_P219424 Serpinb9d,AT2,Spi9,ovalbumin
A_51_P437426 Lrrc33,Lrcc33,MGC36838,E430025L02Rik
A_51_P286527 Itgb1,CD29,Fnrb,gplla,4633401G24Rik
A_51_P248344 Tcfap2b,AP-2(beta),E130018K07Rik
A_51_P475049 Uchl1,gad,PGP9.5
A_51_P327642 BC003993,MGC7531,MGC107219,B230213M24
A_51_P357114 LOC382161
A_51_P327651 H28,H-28,H28-1,NS1178
A_51_P324814 Krt1-18,K18,Endo B
A_51_P219433 D13Wsu50e
A_51_P502713 A930041G11Rik,UNQ739,PSST739
A_51_P505457 Olfr284,MOR160-4
A_51_P348804 Amotl2,Lccp,mKIAA0989
A_51_P256747 Sacy,sAC,Adcy10,4931412F17,4930431D04Rik
A_51_P432011 Pcnt2,KEN,Pcnt,kendrin
A_51_P286563 Gna13
A_51_P505464 Hip1,HIP-1,KIAA4113,MGC27616,mKIAA4113,2610
A_51_P327675 Cacng7
A_51_P324838 Evpl
A_51_P189916 C78541,Nop25

A_51_P505472 Ece2,6330509A19Rik,9630025D12Rik
A_51_P154115 Olfr481,MOR204-2,MOR204-39
A_51_P271200 Slco1a5,Oatp3,Slc21a7
A_51_P339503 Cct4,A45,Cctd,2610204B21Rik
A_51_P248304 2310075A12Rik,1810012I05Rik
A_51_P189905 Dad1
A_51_P308048 Cklfsf8,2700018N07Rik
A_51_P407922 Al790205,mKIAA1624,C530034M11
A_51_P248335 2810031P15Rik
A_51_P505412 Bcl7b
A_51_P116699 1600012K10Rik
A_51_P370423 Clstn2,Cs2,CSTN2,Cst-2,KIAA4134,mKIAA4134,290
A_51_P271208 Agtrap,AT1R,Atrap,D4Wsu124e
A_51_P318262 Hao1,GOX,Gox1,Hao-1
A_51_P432034 Plagl1,Lot1,Zac1
A_51_P189959 Oxsr1,Osr1,2210022N24Rik,2810422B09Rik
A_51_P493270 Mrps5,1620401I16Rik
A_51_P292460 Prkwk1,Wnk1,mKIAA0344,6430573H23Rik
A_51_P339524 C030011O14Rik,A930038D06
A_51_P248328 Bivm
A_51_P204080 Hk2,HKII
A_51_P189927 Tm7sf3,2010003B14Rik
A_51_P112762 Slc5a3,Smit1
A_51_P407904 Trappc4,Sbd,Sbdn,TRS23,PTD009,Sdcbp2,HSPC17
A_51_P293278 Tcte2,Tcte-2
A_51_P432024 Ppm1e,POPX1,PP2CH,mKIAA1072,B930008A12Rik
A_51_P292447 BC025816,MGC37805
A_51_P142744 Sulf1
A_51_P163444 Carhsp1,Crhsp-24,MGC101919,D16Ertd465e,12000
A_51_P256798 A_51_P256798
A_51_P222013 Rassf4,AD037,3830411C14Rik
A_51_P493213 Gpr123,D7Ertd680e,2900059M17Rik
A_51_P357182 Mapk8,JNK,JNK1,Prkm8,SAPK1
A_51_P154196 2700085E05Rik,1700082G03Rik
A_51_P407915 A530026G17
A_51_P210928 Tsta3,FX,Tstap35b,MGC113801
A_51_P370458 A030006P16Rik
A_51_P357195 Gm153
A_51_P210934 AK013499
A_51_P465600 NM_028344
A_51_P222033 Vps33b,MGC36556
A_51_P370470 Cyp20a1,Cypm,A930011N14Rik
A_51_P309917 Itga8,E030013I19Rik
A_51_P125260 Acaa2,D18Ertd240e,0610011L04Rik
A_51_P174362 1300004G08Rik,MGC102273
A_51_P210970 Wnt3a,vt,Wnt-3a
A_51_P222071 Ctdsp1,GIP,Nif3,SCP1,NLIIF
A_51_P222077 3110062M04Rik
A_51_P505493 Elovl5,HELO1,1110059L23Rik
A_51_P112734 Slc7a8,LAT2
A_51_P446731 2500002G23Rik
A_51_P407977 Apeh,MGC38101

A_51_P361286 Agpat5,D8Ertd319e,1110013A05Rik
A_51_P435333 Dctn2,p50,RBP50,DCTN-50,2310042E05Rik,C13007
A_51_P172048 Olfr653,Ors19,MOR33-1
A_51_P186421 5730409E15Rik,A630035H13Rik
A_51_P125205 Aqp1
A_51_P199552 1600014C10Rik
A_51_P210956 Vcam1,CD106,Vcam-1
A_51_P190052 LOC436015
A_51_P222057 Olfr17,P2,MOR263-5
A_51_P213223 Galntl4,MGC32465,2900011G21Rik
A_51_P169588 Dhx38,Ddx38,Prp16,5730550P09Rik
A_51_P420996 AA589455
A_51_P336282 Npy1r,Npyr,Y1-R
A_51_P429715 Lbx1,Lbx1h
A_51_P213260 Gata5
A_51_P311785 Man2b2,mKIAA0935
A_51_P213266 Bmp8a,OP2,OP-2,Bmp7r1
A_51_P199567 Crsp7,5730493L18Rik
A_51_P456098 3010001K23Rik
A_51_P435348 8430420C20Rik
A_51_P309955 AU044757,E130310N06
A_51_P157154 Grin2d,NR2D,NMDAR2D
A_51_P422457 Plcl1,PLCE,PLCL,PLC-L,PLDL1,PRIP-1,C230017K0
A_51_P435339 Epor
A_51_P213205 2900046G09Rik
A_51_P383774 Gngt1,Gng1,G(y)1
A_51_P213246 B230219D22Rik,D530037I19Rik
A_51_P429739 Klhl18,MGC36415,A930041K15
A_51_P186469 BC033915,MGC90906,MGC91236,mKIAA0999,5730
A_51_P222088 Hnrpa3,hnRNPA3,MGC37309,MGC101940,2410013
A_51_P435366 Lipe,HSL
A_51_P326023 Rab1,Gtbp,Ypt1,Rab-1,Rab1A,mKIAA3012
A_51_P172054 Gas6,Gas-6
A_51_P186415 Ssh2,SSH-2,mSSH-2L
A_51_P452659 A430110N23
A_51_P222092 Igbp1,p52,Pc52, Tap42
A_51_P514862 V1rd6,V3R6
A_51_P169567 Nfkbil1,Def-7
A_51_P477128 Gpr20,A430106B11Rik
A_51_P477121 Pmaip1,Noxa
A_51_P193490 Fbxo21,MGC28066,mKIAA0875,2810425J22Rik
A_51_P383755 1110006G14Rik
A_51_P477114 A130034K24Rik
A_51_P435380 Emid2,Emu2,Col26a,Col26a1,MGC7475,9430032K2
A_51_P309998 Olfr691,MOR31-6
A_51_P446781 Strap
A_51_P169576 A_51_P169576
A_51_P186476 Slc11a1,Bcg,Ity,Lsh,ity,Nramp,Nramp1
A_51_P347859 Irx6
A_51_P437761 Psg18,Cea3,Cea-3,mmCGM6
A_51_P414085 4930429A22Rik,MGC37640
A_51_P383741 Bmp4,Bmp2b,Bmp2b1,Bmp2b-1

A_51_P318182 9530057J20Rik
A_51_P373043 Timm8a,Ddp1,Tim8a,Fci-12,DXHXS1274E
A_51_P347823 lpo4,Imp4a,RanBP4,MGC113723,8430408O15Rik
A_51_P514857 AK005920
A_51_P383737 Ankrd25,MGC7734,MGC12143
A_51_P309988 Gprc5c,1110028I06Rik,3200002M13Rik
A_51_P263220 Taf5,6330528C20Rik
A_51_P348976 Mrpl3,2010320L16Rik,5930422H18Rik
A_51_P115988 BC003251,MGC7813,2310074E09Rik
A_51_P499441 Prkd2,PKD2
A_51_P103209 Ttc7,fsn,hea,1110035E02Rik,1700007L07Rik
A_51_P347875 2610305D13Rik
A_51_P452629 Tlr2,Ly105
A_51_P242591 Shq1,2810403P18Rik
A_51_P348947 A830008O07
A_51_P452625 Tdo2,TO,TDO
A_51_P426994 Al875199,MGC41336
A_51_P468294 Polg,PolgA
A_51_P318192 Gem
A_51_P324992 Tnc,TN,Hxb,Ten,TN-C
A_51_P204366 Pik4ca
A_51_P361150 Pcp4l1,1500036F01Rik
A_51_P103254 Flrt2
A_51_P103229 Rest,NRSF,2610008J04Rik
A_51_P286073 4930463O16Rik
A_51_P103222 Slc39a4,ZIP4,1600025H15Rik
A_51_P348922 Olfr1,I7,MOR135-13
A_51_P263234 NAP057118-1
A_51_P373004 4933400C05Rik
A_51_P347862 Actn1,3110023F10Rik
A_51_P103237 Hunk,Bstk1,Mak-v
A_51_P452682 1700013G10Rik
A_51_P314907 AA545217,Ask,Dbf4
A_51_P318104 App,Adap,Cvap,Abeta,amyloid,appican,betaAPP,E0:
A_51_P499479 Zfp82,KRAB16,A030010D05
A_51_P324923 Man2a1,Mana2,Map-2,Mana-2
A_51_P204329 Slc16a14,1110004H10Rik
A_51_P339233 ORF31,G5b,NG5,Bat4,Bat-4,D17H6S54E
A_51_P339232 Snta1,Snt1
A_51_P193424 Rwdd1,0710001K08Rik,2610002D06Rik,2700069A0
A_51_P115940 L3mbtl3,MGC90546
A_51_P286018 Cdc42ep5,CEP5,Borg3,1700027J19Rik,2010007O0:
A_51_P505337 2610524G07Rik,Preli
A_51_P179953 D5Ertd585e,1110001J12Rik
A_51_P468899 Dpysl2,DRP2,Crmp2,Ulip2,TOAD-64,Musunc33
A_51_P290521 2610044O15Rik
A_51_P115953 AK042789
A_51_P115905 Disp2,DispB,mKIAA1742,B230210L08Rik
A_51_P324934 Mcm3,P1,Mcmd,p1.m
A_51_P190397 Atp5f1
A_51_P462428 Galntl2,4631401E18Rik,mpp-GalNAc-T15
A_51_P204390 Sec61g

A_51_P370720 Tnfrsf23,mSOB,Tnfrh1,Dctrailr1,Tnfrsf1al1,mDcTrailr
A_51_P293553 Rps6kb2,S6K2,70kDa
A_51_P288608 4930404K22Rik
A_51_P256401 Ryr1,Ryr,skrr
A_51_P426919 Gt(ROSA)26Sor,ROSA26,Gtrgeo26,Gtrosa26
A_51_P267180 4930517O19Rik
A_51_P103298 9430065N20Rik
A_51_P505322 E130307M08Rik
A_51_P451106 Brca2,Fancd1,RAB163
A_51_P210885 Sned1,SST3,Snep,6720455I24Rik
A_51_P493175 2310038H17Rik
A_51_P370700 Got1,Got-1,cAspAT
A_51_P486971 4933413G19Rik
A_51_P318140 Olfr347,MOR136-9
A_51_P339200 Bat5,NG26,Bat-5,MGC19234,D17H6S82E
A_51_P373082 Bok,mtd,matador
A_51_P115934 C630040K21Rik
A_51_P465679 C330019G07Rik
A_51_P256427 BC042720,C230061B10Rik
A_51_P468231 Ptpd,MGC36851,MGC113757,1110002J03Rik,3000
A_51_P311038 Adamts15
A_51_P345022 4732456N10Rik
A_51_P112644 BC021438,MGC29361
A_51_P179907 Dip3b
A_51_P201226 Lfng
A_51_P451176 Bhlhb3,DEC2,Sharp1,Bhlhb2l
A_51_P142421 Rspodin,R-spondin
A_51_P437787 Rbm28,MGC12075,MGC38664,2810480G15Rik
A_51_P468240 Al115600
A_51_P468249 Phex,Gy,Hyp,PEX,HPDR,gyro,HPDR1
A_51_P293512 1700008F21Rik
A_51_P348985 2010200O16Rik
A_51_P451159 Gpr3,Gpcr3,Gpcr20
A_51_P400411 9030605E16Rik
A_51_P451151 Ube2c,D2Ertd695e,1110015A16Rik
A_51_P363995 1700022I11Rik
A_51_P204387 9330187M14Rik,4932420N09
A_51_P112661 AK029296
A_51_P393310 B830021E24Rik,SIDT1
A_51_P462047 2410002M20Rik
A_51_P370755 Polh,XPV,RAD30A
A_51_P112627 St6galnac2,Siat7,Siat7b
A_51_P426943 Gas8,Gas11
A_51_P451186 Rab3ip,Rabin3,Gtpat12,MGC90794,B230311A06
A_51_P222337 2610028F08Rik,D430027K22
A_51_P125538 Ppp2cb,PP2Ac,D8Ertd766e
A_51_P468269 Itpr2,lp3r2,ltpr5,InsP3R-2,InsP3R-5
A_51_P229076 Cd2ap,METS-1
A_51_P112677 Mrpl50,D4Wsu125e
A_51_P426975 Hist2h4,H4
A_51_P222324 Adrbk2,GRK3,Bark-2,Adrbk-2,4833444A01Rik
A_51_P127094 Olfr829,MOR147-1

A_51_P393375 Kcna2,Mk-2,Kv1.2,Akr6a4,Kca1-2
A_51_P190361 E130016E03Rik,Fsbp,MGC67261
A_51_P505384 Cntn4,Axcam,BIG-2A,9630050B05
A_51_P142465 Ranbp1,Htf9a
A_51_P465749 Abat,l54,9630038C02Rik
A_51_P179987 Mad2l2,REV7,MAD2B,2310033C13Rik
A_51_P465740 4930506D23Rik
A_51_P363960 Olfr1356,MOR142-1,MOR142-2_p
A_51_P340829 AA986860,E030025M07
A_51_P493117 Slc16a9,1200003C15Rik,4930425B13Rik
A_51_P185775 Dnajc14,DNAJ,HDJ3,LIP6,DRIP78,5730551F12Rik
A_51_P179998 Ube2j2,Ubc6,Ubc6p,1200007B18Rik,2400008G19Ri
A_51_P222153 Tpst2,D5Ucla3
A_51_P393355 Pip5k3,p235,Pip5k,Pikfyve,Pipk5k3,5230400C17Rik
A_51_P363914 Cct2,Cctb
A_51_P311096 2410003K15Rik
A_51_P336114 2310038K02Rik
A_51_P236738 Dlx6as
A_51_P400463 Agmat,5033405N08Rik
A_51_P311048 3110018K12Rik
A_51_P112639 Smarca3,Hlhf,P113,Snf2l3
A_51_P345080 Kdelr2,1110007A14Rik
A_51_P169087 Gls2,GA,GLS,Lga,KIAA4146,mKIAA4146,A330074B
A_51_P477046 Tlk2,Tlk,PKUalpha
A_51_P414548 Casp7,Mch3,CMH-1,mCASP-7,ICE-IAP3,caspase-7
A_51_P278550 Gpsn2,SC2,D17Ertd178e,2410016D23Rik,A230102F
A_51_P157223 Ereg,MGC36144
A_51_P347764 AF233884,Fad24
A_51_P236755 Clic3,2300003G24Rik
A_51_P213544 Klf4,EZF,Zie,Gklf
A_51_P142450 Tmem25,0610039J01Rik
A_51_P222386 Tbc1d10a,EPI64,Tbc1d10,FLJ00288,mFLJ00288
A_51_P169061 A330042H22
A_51_P186564 Sec24c,mKIAA0079,2610204K03Rik
A_51_P435268 Tmc1,dn,Bth,CWEA1,Beethoven,4933416G09Rik
A_51_P169068 5730575G16Rik
A_51_P157472 Rpia,RPI
A_51_P203393 5730557B15Rik,0610012A05Rik
A_51_P236775 Ugcg1l,0910001L17Rik,A930007H10Rik,C820010PC
A_51_P435239 Ddef1,PAP,s19,Asap1,mKIAA1249
A_51_P363905 2310067G05Rik
A_51_P239426 Olfr769,MOR114-14
A_51_P199266 Ddx6,HLR2,mRCK/P54,E230023J21Rik
A_51_P242056 Impa1,2610002K09Rik,2900059K10Rik
A_51_P288257 Cdk5rap3,C53,IC53,HSF-27,MST016,MGC8303,181
A_51_P213511 Dnajc13,Rme8,RME-8,Gm1124,KIAA0678,mKIAA06
A_51_P213515 C730036D15Rik
A_51_P172355 5530601H04Rik
A_51_P326152 Sim2
A_51_P186510 Og9x,OG9,Sebox
A_51_P414518 Dncl1,Pin,DLC8
A_51_P250963 Cdk8,MGC37111

A_51_P163797 G630013P12Rik
A_51_P435251 Cul4a,MGC36573,2810470J21Rik
A_51_P301998 Fmo2,MGC28212,2310008D08Rik,2310042I22Rik
A_51_P236769 Dnase1I1,G4.8,2310005K03Rik
A_51_P301994 Rg9mtd1,Rnmtd1,D16Erttd454e,1300018J16Rik
A_51_P172344 Ches1,Ches1I,HTLFL1,MGC36260,5430426H20Rik
A_51_P169047 Ttrap,D13Erttd656e
A_51_P414529 9130011J15Rik
A_51_P242076 5730410I19Rik
A_51_P429446 Apc,Min
A_51_P288277 1110002E23Rik
A_51_P213532 Ppp3ca,CN,CnA,Caln,Calna,2900074D19Rik
A_51_P125588 Arl8,4930587A11Rik
A_51_P169032 0610039J04Rik,2810004N23Rik,3110004G14Rik
A_51_P179921 Punc,WI-14920,2810401C09Rik
A_51_P186578 Theg
A_51_P242043 Dhcr24,mKIAA0018,2310076D10Rik,5830417J06Rik
A_51_P288240 4932415D10Rik,MGC19022
A_51_P286798 Magel2
A_51_P236787 AI427515,mKIAA1576,9430073I07
A_51_P105887 Lax1,A530029E09,E430019B13Rik
A_51_P172323 Pak2,PAK-2,KIAA4182,mKIAA4182,D16Erttd269e,A1
A_51_P286996 Fxyd1,PLM,PML,0610012C17Rik,1110006M24Rik
A_51_P263302 Rnf24,D2Erttd504e,2810473M14Rik,4930505A13Rik
A_51_P120875 Olfr713,P3,MOR263-1
A_51_P386870 Sprr2f
A_51_P366836 Rab8b,5930437D16,D330025I23Rik
A_51_P301930 Lrrc17,37kDa,P37nb,4833425M04Rik,6130400C22R
A_51_P434426 BC016198,MGC27606
A_51_P286780 Glra1,ot,spd,spasmodic,oscillator
A_51_P186552 C630004H02Rik
A_51_P477018 Rnaset2,RNASE6PL,MGC107248,0610007O07Rik,4
A_51_P199249 Olfr272,MOR262-7
A_51_P218814 3110001N18Rik
A_51_P386829 LOC434064
A_51_P263310 Hig1,2210020B17Rik,7420700H20Rik
A_51_P213592 BC002230
A_51_P163378 Zwint,Zwint-1,D10Erttd749e,2010007E07Rik,260000'
A_51_P213597 Hist1h2ac,9030420B16
A_51_P366867 Gas5,Gas-5
A_51_P242021 Rabep1,Rab5ep
A_51_P386810 Gmppb,E430010H19
A_51_P120859 Laptm4a,MTP,Mtrp,LAPTM4,mKIAA0108
A_51_P286737 Ccl2,JE,HC11,MCAF,MCP1,MCP-1,Scya2,Sigje,SM
A_51_P366811 Apod
A_51_P218833 AA673488
A_51_P327418 1500011J06Rik
A_51_P293489 BC013481,MGC18900,9530077J19Rik
A_51_P256983 Klrg1,MAFA,2F1-Ag,MAFA-L
A_51_P301906 Herc1,MGC7618,B230218H07,2810449H11Rik,D13
A_51_P499776 Denr,1500003K04Rik
A_51_P318028 Olfr134,MOR256-5

A_51_P288505 Tradd,9130005N23Rik
A_51_P218805 Gfer,Alr,ERV1
A_51_P229105 Cetn3,MmCEN3
A_51_P190281 Orc2l,Orc2
A_51_P267634 A730041O15Rik
A_51_P505662 4933437F05Rik
A_51_P290601 Znhit2,Fon,ORF6,C11orf5
A_51_P133060 Kif7
A_51_P327405 5830443L24Rik
A_51_P499755 Anp32a,LANP,pp32,Anp32,PHAP1,I1PP2A
A_51_P248181 C130057D23Rik
A_51_P172390 2510016G02Rik
A_51_P301964 Arl6ip1,AIP-6,ARMER,Aip-1,Arl6ip,mKIAA0069
A_51_P157496 A_51_P157496
A_51_P218895 Gaa,E430018M07Rik
A_51_P219542 Gnpnat1,EMeg32,Gpnat1,Gsnpat
A_51_P256919 Sp1,Sp1-1,1110003E12Rik
A_51_P340987 Garnl3
A_51_P348624 Timm13a,Tim13
A_51_P370600 Fli1,Sic1,EWSR2,Fli-1,SIC-1
A_51_P286748 Frzb,Frp,Sfrp3,fritz,frzb-1,frezzled
A_51_P348617 2310045N01Rik
A_51_P229129 Olfr1218,MOR233-12
A_51_P318012 Rab12,2900054P15Rik
A_51_P386899 BC011209,CCT,MGC19050
A_51_P393086 Spfh1,Keo4,2810439N09Rik
A_51_P288103 Psm6,2400006A19Rik
A_51_P314830 Rxrb,Rub,Nr2b2,RCoR-1,H-2RIIBP
A_51_P370620 4632406N01Rik
A_51_P386880 Stip1,Hop,p60,STI1,mSTI1
A_51_P348652 Spg4,Spast,spastin,mKIAA1083
A_51_P339713 Mrps26,G1008,Rpms13,MRP-S13,MRP-S26
A_51_P318051 Olfr726,MOR246-4
A_51_P256933 4930520K10Rik
A_51_P229134 Cnga3,CNG3
A_51_P163639 1700008E09Rik,Samp14,Spaca4
A_51_P357368 Usp47,4930502N04Rik,A630020C16Rik
A_51_P465772 Ruvbl1,Tip49a,Pontin52,2510009G06Rik
A_51_P292665 2410133F24Rik
A_51_P493079 Eef1d,1700026P12Rik,5730529A16Rik
A_51_P505617 Il18r1,Il1rrp
A_51_P201308 Moxd2,Dbhl1
A_51_P248122 Bbc3,PUMA,PUMA/JFY1
A_51_P201302 Olfr1054,MOR188-2
A_51_P116487 Lsm4
A_51_P451032 Anxa3,Anx3
A_51_P340978 BC019537,MGC28538
A_51_P509999 Prlpc2,PLP-Cbeta,1600019F10Rik
A_51_P348672 Zdhhc17,HIP3,HYPH,Hip14,mKIAA0946,A230053P1
A_51_P171999 Apoe
A_51_P116496 BC024139,MGC37978,6230424I18Rik
A_51_P370640 Zcchc5,Gm375,Mart3,D430021I08Rik

A_51_P311540 Cox6a1,VlaL
A_51_P357341 Clic1,G6,Clcp
A_51_P112557 Rpo1-1,40kDa,RPA40
A_51_P348665 Ramp1
A_51_P393014 1700025D03Rik
A_51_P179933 A_51_P179933
A_51_P201327 Mapkapk5,MK5,PRAK
A_51_P451052 Pgm5,4833423B07,9530034F03Rik
A_51_P142529 Saa4,Saa-4,Saa-5
A_51_P229163 Crhr1,Crhr,CRFR1
A_51_P163624 D930017K21Rik
A_51_P264064 Incenp,C130081E20,2700067E22Rik
A_51_P465409 Mll,HRX,All1,ALL-1,Cxxc7,HTRX1,KIAA4050,mKIAA
A_51_P185259 Gnb5,GBS,flr,Gbeta5
A_51_P437692 Zp3r,SP56
A_51_P201338 Mtss1,Mim,MGC37896,mKIAA0429,2310003N14Rik
A_51_P437697 Hax1,HAX-1,Hs1bp1,SIG-111,Silg111,mHAX-1s
A_51_P340921 Gtf3c1
A_51_P264073 Jarid2,Jmj
A_51_P493037 Dclre1a,Pso2,SNM1,mSNM1,KIAA0086,mKIAA0086
A_51_P163671 Olfr600,MOR39-1
A_51_P311525 Cltc
A_51_P465436 lfnab
A_51_P364671 Ndufs7,1010001M04Rik
A_51_P201346 Mdm2,Mdm-2,1700007J15Rik
A_51_P370678 Gfi1b,Gfi-1B
A_51_P393078 Tigd2,3632410O17Rik
A_51_P173197 Gorasp2,p59,GRS2,GOLPH2,GRASP55,0610011A0
A_51_P339554 Olfr1223,MOR233-10
A_51_P203420 Rpl13,L13
A_51_P222453 D14Ert449e,0610008K04Rik,0610010A22Rik
A_51_P201354 AK048370
A_51_P429592 Csm1,KIAA1890,mKIAA1890,B930082H09
A_51_P446512 2310016G11Rik
A_51_P222664 D730001G18Rik
A_51_P186281 Fert2,Fer,Fert,C330004K01Rik
A_51_P171965 1110058L19Rik,C6orf57,1700001E18Rik
A_51_P222604 Fut1,H
A_51_P171929 Hectd2,4921524L07,A630025O09Rik
A_51_P435103 8030453O22Rik
A_51_P199778 AK034273
A_51_P505689 Kifc2
A_51_P199772 AK033361
A_51_P432288 Rnf183,5830442J12Rik
A_51_P465445 Mtap4,Mtap-4
A_51_P171936 A630033H20Rik
A_51_P414230 Sema6a,Vla,sema,Semaq,Sema6A-1,9330158E07,A
A_51_P446570 Bbox1
A_51_P446575 Fnbp1l,TOCA1,MGC30506,2610318I01Rik
A_51_P172266 Il9r
A_51_P422603 Tead1,TEF-1,Tcf13,TEAD-1,mTEF-1,Gtrgeo5
A_51_P244540 Ntsr2,NT2R,NTRL

A_51_P125009 Pvr13,2610301B19Rik,3000002N23Rik,4921513D19I
A_51_P445588 1110038D17Rik
A_51_P213459 Asb7,Asb-7,D030055C23Rik
A_51_P366986 Glis2,Nkl,Gli5,Klf16,MGC36775
A_51_P199756 3110018I06Rik
A_51_P445555 Arid1b,Ardi1b,mKIAA1235,8030481M12,B230217J0:
A_51_P163694 Rufy1,Rabip4,ZFYVE12,3000002E04Rik
A_51_P190254 Scrn1,SES1,KIAA0193,mKIAA0193,2810019K23Rik,
A_51_P259001 Chmp5,2210412K09Rik
A_51_P142594 LOC433809
A_51_P429517 Arl10c,gie1,2610313E07Rik,3100002J04Rik
A_51_P112592 Spire2,Spir2,Spir-2,MGC31610
A_51_P186203 Efna3,Epl3,EFL-2,Ehk1-L,LERK-3
A_51_P465492 Klhdc5,mKIAA1340,C230080I20Rik
A_51_P199725 Arhgap24,MGC38749,0610025G21Rik
A_51_P414208 1110014K05Rik
A_51_P213476 Pgr,PR,PR-A,PR-B,NR3C3,9930019P03Rik
A_51_P169374 2310046K01Rik
A_51_P445574 Nags,argA,1700120E20Rik
A_51_P169305 LOC384806,Adam38,testase-8
A_51_P386964 3110001I20Rik,C630011I23
A_51_P414243 C85492,Ago61,MGC31712
A_51_P446583 Zfp445,ZNF168,mszf29,mszf50
A_51_P186232 Pof1b,2310066B14Rik
A_51_P429572 4833420G17Rik,2210017J06Rik,5730533D17Rik
A_51_P157994 Dab2,Doc2,Doc-2,D15Wsu122e,5730435J12Rik
A_51_P172251 lfrd2,SKMc15,1810034A24Rik
A_51_P199716 Tle1,Grg1,C230057C06Rik
A_51_P267740 2610312B22Rik,FM22,lerepo4,1700006A17Rik,181C
A_51_P321886 Cklsf3,BNAS2,9430096L06Rik
A_51_P242767 Cklsf4,MGC30490
A_51_P366931 Prc1,MGC6745,D7Ertd348e
A_51_P169327 Etd,1700030K02Rik
A_51_P204153 Igfbp5,IGFBP-5
A_51_P274356 Olfr378,MOR135-2
A_51_P499623 Mlana,Mart1,A930034P04Rik
A_51_P435198 Cryz,Sez9
A_51_P204160 BC066140,4732427B05
A_51_P272844 Osbp19,ORP-9,MGC30367,MGC38458,2600011I06F
A_51_P229280 Eif3s10,Csma,Eif3,mKIAA0139,A830012B05Rik
A_51_P132079 Klr22,Ly49v
A_51_P263004 Bcl11a,Evi9,Ctip1,mKIAA1809,2810047E18Rik,4930
A_51_P406020 Abhd4,1110035H23Rik
A_51_P386911 2310066I18Rik
A_51_P496309 AK034131
A_51_P204131 4921528I01Rik
A_51_P263033 Ly64,Lrrp,NJ-1,MUC13,14/A10
A_51_P116226 A_51_P116226
A_51_P304607 Slc5a9,SGLT4,MGC29197
A_51_P366960 Hadh2,Ads9,ERAB,17bHSD10,Hsd17b10
A_51_P272866 Mmp21
A_51_P145631 6620401M08Rik,1700006C13Rik

A_51_P286423 Foxd3,CWH3,Hfh2,Genesis
A_51_P256665 Pon3,2810004E20
A_51_P157976 Mmab,ATR,9130222L19Rik
A_51_P179789 4732429D16Rik,CLM5,clm-5
A_51_P267700 1190003M12Rik
A_51_P204121 Nudt6,Asfgf2b,MGC27904
A_51_P386932 C530043G21Rik,FAM20B,mKIAA0475
A_51_P256653 Lmbr1
A_51_P157902 Cldn3,Cpetr2
A_51_P103007 Itgam,CR3,Ly-40,Mac-1,Mac-1a,CD11b/CD18,F730C
A_51_P157916 BC068281,A430092C04
A_51_P327778 Pfdn2,ESTM27
A_51_P318770 Wdr42a,H326,D1Ucla4,MGC38511
A_51_P286215 Zfyve20,5330426D11Rik
A_51_P505571 Chrnl2,Chl2,1810022C01Rik
A_51_P386983 Tnni3,Tn1
A_51_P499653 Chrna6,Acra6,Nica6
A_51_P172292 Itih4,Itih-4
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A_51_P103054 Adamts19,4831407I23Rik,D230034E10Rik
A_51_P272806 Ctsr
A_51_P154222 Kars,D8Wsu108e,mKIAA0070
A_51_P256632 Pla2g2a,EF,Mom1,Pla2,sPLA2,14-3-3
A_51_P298570 Eif4a2,Eif4,Ddx2b,BM-010,4833432N07Rik
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A_51_P370155 Astl,MGC76457,Ovastacin,7420700F21
A_51_P112465 9030411M15Rik
A_51_P339417 Heyl,Hrt3,hesr3
A_51_P318710 D630013G24Rik
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A_51_P229230 1700003G18Rik
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A_51_P451338 Jag2,sm,Serh,D12Ggc2e,mJagged2-1
A_51_P304683 Clpx,E330029I21
A_51_P468037 0610039G24Rik
A_51_P159835 Pcdhb15,Pcdhb7,PcdhbO
A_51_P270819 Traf2
A_51_P179701 Hlx1,Hlx
A_51_P318731 Phf16,Jade3,mKIAA0215,5730598B06
A_51_P339434 4921530L21Rik
A_51_P361348 ENSMUST00000058933
A_51_P393587 Mak3,Mak3p,2600005K24Rik,2810441M03Rik
A_51_P103081 AK050866
A_51_P110068 Sirt2,Sir2l,SIR2L2,5730427M03Rik
A_51_P505538 Hfe,MR2
A_51_P505530 Tnxb,Tnx
A_51_P204196 4933434C23Rik
A_51_P370163 Sh2bp1,Tsp,Tsbp
A_51_P371770 Wdr51a,2510040D07Rik

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A_51_P499698 2300003P22Rik
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A_51_P229244 Ranbp6,C630001B19
A_51_P505521 Hist1h4i
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A_51_P451346 NAP032794-1
A_51_P112476 AI840334
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A_51_P293753 Cul7,p185,p193,2510004L20Rik,C230011P08Rik
A_51_P288406 Insl3,Rlf,Rlnl
A_51_P437938 6330578E17Rik,1700001A24Rik
A_51_P451377 Kng1,Kng
A_51_P357085 Dctn6,p27,WS-3
A_51_P393574 0610039P13Rik
A_51_P191909 Rem2
A_51_P222115 Olfr1463,MOR202-29P
A_51_P142258 1810019J16Rik
A_51_P176396 4631427C17Rik,mKIAA0828
A_51_P474996 XM_146031
A_51_P125316 Hipk2,Stank,1110014O20Rik,B230339E18Rik
A_51_P311621 4930453N24Rik
A_51_P429295 4933435A13Rik,2810013G11Rik
A_51_P154295 Olfr419,MOR267-6
A_51_P237945 Nup88,88kDa,Nup84,Prei2
A_51_P400659 Bcap29,Bap29
A_51_P256682 Kpna1,NPI1,Rch2,IPOA5,mSRP1
A_51_P465512 Nmt2,hNMT-2,A930001K02Rik
A_51_P309293 BC046331,MGC54921,mKIAA0562,A930027E11
A_51_P393518 BC016539
A_51_P435023 Rassf1,123F2,RDA32,NORE2A,REH3P21,Rassf1A,l
A_51_P474960 Pitrm1,MP1,Ntup1,mKIAA1104,2310012C15Rik
A_51_P210877 Pcnp
A_51_P446060 Rnf17,Mmip2,MMIP-2
A_51_P385258 Aldrl6,MIOX,RSOR,0610009I10Rik
A_51_P163578 Ugt2b35,C730031G17
A_51_P446022 D430042O09Rik,MGC31549
A_51_P125338 Pde8b,B230331L10Rik,C030047E14Rik
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A_51_P213761 Rap2b,4021402C18Rik
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A_51_P446045 Scd3,4930513N16Rik
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A_51_P474902 Acvr1c

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A_51_P446003 Dguok,dGK
A_51_P199447 Olfr744,MOR106-13P
A_51_P446012 Phf13,Phf5
A_51_P445677 Hhat,Skn,MGC11697,2810432O22Rik
A_51_P429246 Fbxl6,Fbl6
A_51_P429241 Tcrg
A_51_P311699 E130113E03Rik
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A_51_P213737 Pcdhb12,PcdhbL,Pcdhb5F
A_51_P239654 Nr4a1,Hmr,N10,TR3,Gfrp,Hbr1,NP10,TIS1,GFRP1,1-
A_51_P429209 Smpd1,ASM,aSMase,A-SMase
A_51_P186374 Grap2,P38,GRID,Gads,GrbX,GrpL,Mona,GRB2L,Grf
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A_51_P288009 Chrng,Acrp,Achr-3
A_51_P429276 Tmod3,UTMOD,U-Tmod
A_51_P181097 Pfas,Gm18,PURL,FGAMS,FGARAT,4432409B16Rik
A_51_P414706 Ddt
A_51_P312121 Xdh,Xor,Xox1,Xox-1
A_51_P435058 9030624G23Rik
A_51_P242265 Cradd,RAIDD
A_51_P429212 Npl,0610033B02Rik
A_51_P125395 Hira,Tuple1,D16Ert95e
A_51_P309208 1500010C09Rik
A_51_P435052 Tspan3,TM4-A,Tm4sf8,Tspan-3,1700055K04Rik
A_51_P213706 Sdf4,Cab45
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A_51_P465591 Grm5,Gprc1e,mGluR5,6430542K11Rik
A_51_P199407 Caln1,Cabp8,MNCb-0849,9630012C17Rik
A_51_P263172 V1rh17
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A_51_P291588 1700105P06Rik
A_51_P312149 Zfr,C920030H05Rik
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A_51_P108038 V2R2
A_51_P515120 Hs3st3a1,3Ost3a,Hs3st3a
A_51_P199425 Glcc1,Gig18,Tssn1,2310047L21Rik,A130036A18Rik
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A_51_P292933 Bxdc2,1110064N10Rik
A_51_P279955 E330017A01Rik
A_51_P120220 2610511M17Rik
A_51_P312175 Tnks,4930554K12Rik
A_51_P318683 Sorl1,LR11,gp250,mSorLA,2900010L19Rik
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A_51_P199494 5730412N02Rik
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A_51_P446098 Srrm1,POP101,Srm160
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A_51_P286172 Lzts2,LAPSER1,MGC7094,mKIAA1813
A_51_P468381 Purb,Cager-2,D11Bwg0414e,2310015K15Rik
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A_51_P242201 Asahl,NAAA,2210023K21Rik,3830414F09Rik
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A_51_P406306 A730039N16Rik
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A_51_P304743 4832428G11Rik
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A_51_P347961 Npc2,HE1,2700012J19Rik
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A_51_P120257 Uble1b,Arx,SAE2,UBA1,UBA2,Ubl1a2
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A_51_P414790 Lrrtm2,mKIAA0416,C630011A14Rik
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A_51_P452953 Rhod,Rho,Arhd,RhoM,RhoHP1
A_51_P505882 8430436L14Rik
A_51_P286131 D730039F16Rik
A_51_P279938 V1re9
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A_51_P427177 Pex19,Pxf
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A_51_P181031 Nalp2,NBS1,PAN1,PYPAF2,E330007A02Rik
A_51_P327261 Tnip1,Nef,VAN,ABIN,Naf1,ABIN1
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A_51_P452977 Gad2,GAD65,Gad-2
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A_51_P348433 Rasal1,MRASAL
A_51_P115863 5330430P22Rik
A_51_P327232 A930017E24Rik,Pp591
A_51_P103364 XM_354723
A_51_P242293 Olfr915,MOR167-4
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A_51_P120295 Cyp2d26,1300006E06Rik
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A_51_P468352 C330018K18Rik,G630067D24Rik
A_51_P370050 Nagpa
A_51_P393288 Olfr447,MOR261-1
A_51_P115800 Olfr770,MOR114-5
A_51_P318618 2010013E14Rik,Harp
A_51_P264235 Umps,1700095D23Rik
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A_51_P357561 Fbxw9,Fbw9,1110017H11Rik
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A_51_P115829 Ckap1,CG22,TBCB,CKAPI,2410007D12Rik
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A_51_P505803 Gdap1l1,Gdap1l,MGC28116
A_51_P348456 Rest,NRSF,2610008J04Rik
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A_51_P201104 1200006O19Rik,lpla2(gamma)
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A_51_P249749 Crisp1d1,Lcrisp1,Cocoacrisp
A_51_P445726 Pirb,6M1,7M5,16M4,16M5,16M6,Gp91,PIRB1,PIRB2
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A_51_P486207 AK032580
A_51_P505823 2310067E08Rik,2210414F18Rik
A_51_P370034 Spt2,Spt-2
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A_51_P400527 Tmem33,db83,1110006G02Rik,1600019D15Rik,241
A_51_P393223 Ankrd23,Darp,MARP3,1110058D09Rik,2310041C05
A_51_P190454 Zfp37,Tzn,Zfp-37

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A_51_P142334 Inpp1,51C,SHIP2
A_51_P199987 Gucy1a3,1200016O07Rik
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A_51_P236656 Apex2,ape2,C430040P13Rik
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A_51_P213666 Psma8,2410072D24Rik
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A_51_P370090 Pdgfa
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A_51_P169173 Cdkn1b,p27,Kip1,p27Kip1
A_51_P400585 Api5,AAC-11
A_51_P237834 Tmcc1,mKIAA0779,3632431M01Rik
A_51_P418029 Mum1l1,9430086K21Rik
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A_51_P213641 Ap2b1,1300012O03Rik
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A_51_P435731 E130112L23Rik,Gm669
A_51_P429372 2700075B01Rik
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A_51_P108108 Lrrc25,Mapa
A_51_P429308 Neto2,BTCL2,5530601C23Rik

A_51_P169156 Rps10,MGC107635,2210402A09Rik
A_51_P414412 Fln29,1110008K06Rik
A_51_P422030 9430098E02Rik
A_51_P408162 Bola3,1810056O20Rik
A_51_P145010 2310067L16Rik
A_51_P242143 Canx,CNX,D11ErtD153e,1110069N15Rik
A_51_P390285 5430431G03Rik,MGC115805
A_51_P465292 Hnmt,1500031F01Rik
A_51_P242114 Trpc4ap,truss,Trrp4ap,FLJ00177,mFLJ00177,D2Ertc
A_51_P145020 Lrrc21,MGC40670
A_51_P502892 Nfic,NF1-C
A_51_P279841 Blnk,Bca,BASH,Ly57,Ly-57,Lyw-57,SLP-65
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A_51_P429335 Prss16,TSSP
A_51_P120305 Elovl1,Ssc1
A_51_P169128 2410002O22Rik,AI451892,2610524F24Rik
A_51_P199927 Chc1,Rcc1,4931417M11Rik
A_51_P108173 Mrpl48
A_51_P327539 Olfr341,MOR136-2
A_51_P304437 C230090D14,Pfkfb4
A_51_P327530 5730536A07Rik
A_51_P304431 NAP057072-1
A_51_P279854 Ndufa11,B14.7,11, 14.7kDa,2010012C24Rik
A_51_P145041 Lrp8,apoER2,4932703M08Rik
A_51_P279851 Dhps,Dhs,MGC49129,MGC74384
A_51_P499054 Hrpt2,MGC29274,MGC36559,8430414L16Rik,C130
A_51_P103659 Tubb2,M(beta)2
A_51_P103650 Trim8,GERP,Rnf27
A_51_P242101 5730528L13Rik,2410046L14Rik,2810429P03Rik
A_51_P499061 B230113M03Rik,E2-230K,mKIAA1734,9630022H21
A_51_P301809 Slit3,Slit2
A_51_P304469 Stxbp3,Sxtbp3,MGC86097,Munc-18c
A_51_P256884 BC060632,MGC79213
A_51_P229483 Olfr206,MOR182-4
A_51_P133747 Ppp1r3e,Gm1211,A630071A11Rik
A_51_P279827 Olfr550,MOR16-1
A_51_P348592 BC031853,MGC25764,D430050E18
A_51_P301848 Ing4,D6Xrf92,p29ING4,D6Wsu147e
A_51_P499020 Fbp2,Fbp1,Fbp-1
A_51_P327511 Fgl2,musfiblp
A_51_P304417 AI449705,Gnn,MGC40847
A_51_P312095 Aak1,MGC40785,mKIAA1048,9630042K20,D6ErtD2
A_51_P414481 Tcerg1,p144,Taf2s,ca150,CA150b,FBP 23,AI428505
A_51_P318580 Myh14,II-C,NHMCII,NMHC II-C,2400004E04Rik
A_51_P502859 Dgkh,D130015C16,5930402B05Rik
A_51_P199974 Slc4a8,kNBC-3
A_51_P154513 Il17d,Il27a,IL-17D
A_51_P213691 Scnn1a,Scnn1,mENaC
A_51_P443293 Decr2
A_51_P318551 BC018399,Nle,MGC25690,notchless
A_51_P319917 Adam8,MS2,CD156,CD156a,E430039A18Rik
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A_51_P318577 2410078J06Rik
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A_51_P505774 Rbbp6,MGC32263,4933422O15Rik,C030034J04Rik
A_51_P120388 4631426E05Rik
A_51_P505761 1300010F03Rik,mKIAA0564,4932416F07Rik
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A_51_P247014 Gabra1,Gabra-1
A_51_P505738 BC054059,SMAF1
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A_51_P283016 Slc1a6,EAAT4
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A_51_P218335 Tbx1
A_51_P264132 5430416O09Rik
A_51_P505719 C630007L23Rik,Dmxl1,D030030C22
A_51_P229471 Mtap1a,Map1a,Mtap1,moth1,Mtap-1,6330416M19Ril
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A_51_P370341 Hkr3,0610011D15Rik
A_51_P137808 Zfp26,Zfp70,mkr-3,KRAB15,Zfp-26,mszf14,mszf52,K
A_51_P154473 Mc1r,e,Tob,Mshra
A_51_P451574 Cte1,ACH2,CTE-1,CTE-I,D12Ucla1
A_51_P311476 Rgma,MGC38550,MGC69915,C230063O06
A_51_P311434 Cyb5,0610009N12Rik
A_51_P423549 Shbg,ABP
A_51_P423547 2410018G20Rik,2610001E06Rik
A_51_P190791 5730537H01Rik,2410015D23Rik
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A_51_P179511 Eml5,C130068M19Rik
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A_51_P499091 Ghnr,C530020I22Rik
A_51_P432958 Podn,Pcan,SLRR5A,9430070G18
A_51_P311459 4930485B16Rik
A_51_P451516 D10Ertd610e,GEFT,2410008H17Rik
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A_51_P171883 Palmd,PALML,4631423C22Rik
A_51_P142046 1810049H13Rik
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A_51_P179565 2010204K13Rik,Cip7,0610010M13Rik
A_51_P357299 Olfr211,MOR253-9
A_51_P222773 Foxa2,Hnf3b,Tcf3b,Hnf-3b,Tcf-3b
A_51_P163778 2810025M15Rik
A_51_P179578 Gbx2,Gbx-2,MMoxA,Strat7,D130058E05Rik
A_51_P256827 S100a8,p8,B8Ag,CFAg,Caga,MRP8,CP-10,60B8Ag,
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A_51_P400016 Kalrn,DUET,TRAD,Gm539,Hapip,AV235988,221040
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A_51_P142021 AK041859
A_51_P432907 4833425H18Rik
A_51_P212135 Olfr1406,MOR267-5
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A_51_P429087 Rp2h
A_51_P432924 Ugt2b34,MGC37823
A_51_P199671 Tcf3,Tfe3,Tfe-3,F830016E06Rik
A_51_P505653 Mcp,CD46
A_51_P465327 lpo8
A_51_P171832 Nrgn,NG,RC3,Pss1,NG/RC3,0710001B06Rik
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A_51_P125135 Cdca5,2610036L13Rik
A_51_P432930 Trappc3,Bet3,1110058K12Rik
A_51_P423578 Slfn2,Shlf2
A_51_P432937 Npas3
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A_51_P435671 Igh-V11
A_51_P237738 4930448N21Rik
A_51_P236303 Serpina1d,PI4,Spi1-4
A_51_P270583 E230025N21Rik
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A_51_P236314 Ndst1,Hsst,NDST-1,1200015G06Rik
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A_51_P370380 Rdh14,PAN2,3110030G19Rik
A_51_P201697 Zp1

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A_51_P201680 4930522N08Rik
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A_51_P312310 Mtbp,MDM2BP
A_51_P515314 Gyltl1b,Largel,KIAA4105,mKIAA4105,5730485C17R
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A_51_P108226 1100001G20Rik
A_51_P199618 Dzip1l,2610524A10Rik
A_51_P157895 Cdk5,Crk6
A_51_P295996 Mrgpra1,MrgA1
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A_51_P186118 0610011N22Rik,5430420E17Rik
A_51_P414915 Mep1a,Mep1,Mep-1,Mep-1a
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A_51_P236380 Slco6c1,4933404A18Rik
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A_51_P414927 Pigw,Gwt1,2610044A17Rik
A_51_P462029 4930562F07Rik
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A_51_P154469 Ccndbp1,Maid,SECC-8,SSEC-8
A_51_P309066 Fabp6,ILBP,I-15P,ILBP3,Ilbp,I-BABP
A_51_P499369 Tmem34,MGC8158,8430433H16Rik
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A_51_P361638 Rps14,MGC86125,2600014J02Rik
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A_51_P120066 9330151L19Rik
A_51_P318488 Akt3,D930002M15Rik
A_51_P414948 Mpdz,MUPP1,B930003D11Rik
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A_51_P213945 A330009G12Rik
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A_51_P120008 Wdr44,RPH11,RAB11BP,9130203L06,2610034K17F
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A_51_P134972 Shkbp1,Sb1,B930062H15Rik
A_51_P154427 1810065E05Rik
A_51_P288680 Mkl1,A130067F06Rik
A_51_P288687 Serpinb6b,NK13,Spi12,ovalbumin
A_51_P373970 Braf,Braf2,Braf-2,C230098H17,D6Ertd631e,9930012
A_51_P361678 Cgnl1,JACOP,4933421H10Rik,9930020M10Rik
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A_51_P286348 Olfr794,MOR114-11
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A_51_P443359 1810017G16Rik,Hspc176
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A_51_P120097 Ppp2r1b,2410091N08Rik
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A_51_P423637 Prlpc3,PLP-Cgamma,1600032B14Rik
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A_51_P335104 1110030E23Rik
A_51_P357735 Inhbe
A_51_P318430 Gsbs,Ppp1r2
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A_51_P190690 Mrps36,1110018B13Rik
A_51_P468165 1500001A10Rik,mKIAA1853
A_51_P271865 Clec4f,Kclr,Clecsf13,KUCR_MOUSE
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A_51_P406193 Tmhs,hscy,Lhfp15,9330179O15Rik
A_51_P311995 Apxl,4832440C16,C630003H05Rik
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A_51_P348217 Olfr1161,MOR174-2
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A_51_P142175 Lancl1,p40,Gpr69,Gpr69a
A_51_P229536 Nqo2,Ox2,NMO2,Ox-2,Nmor2
A_51_P446179 Tmprss4,MGC29209
A_51_P295806 Gpr4
A_51_P271803 Nsun2,D13Wsu123e
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A_51_P400773 Hdgfrp2,HRP-2
A_51_P247184 B430320C24Rik
A_51_P328963 Ufd1l,Ufd1
A_51_P271857 AK035482
A_51_P423666 Fbxo17,Fbg4,Fbx17,FBXO26
A_51_P264411 Hsf2bp,4932437G14Rik
A_51_P190671 AK080862
A_51_P142153 4631422O05Rik
A_51_P381178 Btbd4,2610019F01Rik,4933406L05Rik
A_51_P201721 Crtap,CASP,5730529N23Rik
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A_51_P283236 AU020939,6430559I23
A_51_P236439 Agtr1,AT1,AG2S,AT1a,AT2R1,AT2R1A,Agtr1a,Agtr
A_51_P159711 Car7

A_51_P468140 Serpind1,HCII,Hcf2,MGC107662
A_51_P201773 Tubgcp3,GCP3,Spc98p
A_51_P393409 Dcp1b,B930050E02Rik
A_51_P191875 Lcn5,Erabp,MEP10,mE-RABP
A_51_P190639 Atp8b4
A_51_P112932 Entpd2,Cd39I1,NTPDase-2
A_51_P446132 Rab2b,A230002G14,1500012D09Rik,D530043M21F
A_51_P446131 Semcap2,2200002N01Rik
A_51_P486001 5330417K06Rik,A630029F06
A_51_P236419 0610007P08Rik,RAD26L,1700019D06Rik
A_51_P295816 4631422C13Rik
A_51_P502119 F11,FXI,Cf11,1600027G01Rik
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A_51_P451482 Anxa9,1110003P15Rik,2310069F17Rik
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A_51_P288138 Fpr-rs2,E330010I07Rik
A_51_P495747 A030013N09Rik
A_51_P429692 A930010I20Rik
A_51_P154780 Vav1,Vav,vav-T
A_51_P486068 Suhw2,D10Jhu82e
A_51_P154788 AK046926
A_51_P423680 2310044P18Rik
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A_51_P271835 Tdrd7,MGC36668,PCTAIRE2BP,5730495N10Rik
A_51_P201730 Mpdu1,SL15,LEC35,Supl15h
A_51_P429197 Csnk1e,tau,CKIe,KC1epsilon
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A_51_P509551 Scn1a,Nav1.1
A_51_P213896 Usp15,Gcap18,mKIAA0529,4921514G19Rik,E43003
A_51_P414661 2210010C04Rik
A_51_P311977 Csda,Yb2,Dpba,MSY4,Ybx3,dbpA,oxyR
A_51_P474822 Muc2,MCM,2010015E03Rik
A_51_P112966 Ch25h,m25OH
A_51_P486046 A_51_P486046
A_51_P237613 Fgfr3,HBGFR,Fgfr-3
A_51_P445153 Spry2,sprouty2
A_51_P191893 2410022M11Rik
A_51_P264495 Pgam2
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A_51_P429152 Cxxc4,Idax,MGC90862,9330210J02Rik,C030003J12
A_51_P311945 Oaz2,AZ-2,Sez15
A_51_P179531 Flt4,Chy,Flt-4,VEGFR3,VEGFR-3
A_51_P515018 Hsd17b13,Pan1b,PAN1B-like
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A_51_P414637 Col5a1

A_51_P513898 Epb4.114a,NBL4,Epb4.114
A_51_P311965 Surf6,Surf-6,D2Wsu129e
A_51_P371647 Olfr1413,MOR208-1
A_51_P452890 Ssxb1,4930414C09Rik
A_51_P465082 Tnrc9,CAGF9,C230068E13
A_51_P515056 Itga3,CD49C
A_51_P108334 Slc25a4,Ant1
A_51_P288162 Ddx39,BAT1,DDXL,URH49,2610307C23Rik
A_51_P315411 Epb4.113,4.1B,Dal1,NBL3
A_51_P511546 Gldc,D19Wsu57e,D030049L12Rik
A_51_P242356 1810073G14Rik,9030624B09Rik
A_51_P386585 Gpsm1,Ags3,1810037C22Rik
A_51_P309338 Abcb11,Bsep,PGY4,SPGP,ABC16,Lith1,PFIC2
A_51_P108309 Olfr1494,MOR266-1
A_51_P203827 Adrb1,Adrb-1,beta-AR
A_51_P179697 1500016O10Rik,MGC103222
A_51_P312275 0610007A15Rik,0610030G03Rik
A_51_P443026 NAP057152-1
A_51_P288193 Btg1
A_51_P429111 2310076G13Rik
A_51_P142196 H19
A_51_P342418 C130079G13Rik
A_51_P236486 BC005655,MGC11676
A_51_P446192 2610101J03Rik
A_51_P515026 Mdfic,Kdt1,Mdfid
A_51_P312217 4833428C12Rik
A_51_P145220 Nef3,Nfm,NF-M,NF160,NF165
A_51_P408310 Mtr,MS,D830038K18Rik
A_51_P361557 Luc7l2,Cgi74,CGI-59,CGI-74,4930471C18Rik
A_51_P145260 Sall4,Tex20,5730441M18Rik,C330011P20Rik
A_51_P154485 Fcrlm1,FCRL,FREB,FcRX
A_51_P435588 Sprr2d
A_51_P120137 AW061290,MGC37733
A_51_P342446 Gas7,Gas7-cb
A_51_P145276 AJ409488
A_51_P309347 Nfasc,mKIAA0756,D430023G06Rik
A_51_P278606 V1rc3
A_51_P443032 Olfr64,5'[b]3,MOR1-1,MOR1-2,ORL670,5'beta3
A_51_P361535 Psme2b,PA28b2,PA28b-p,Psme2-like
A_51_P515046 A_51_P515046
A_51_P243495 4933426D04Rik
A_51_P499201 Npm3,Nub1
A_51_P218196 Msx1,msh,Hox7,Hox-7,Hox7.1
A_51_P133992 2210404O07Rik
A_51_P452820 Rpl31,MGC107628
A_51_P386503 1300007F04Rik
A_51_P443062 Tcfap2a,Ap2,Ap2tf
A_51_P499254 5830411E10Rik,Nabp1,4930434H03Rik,4930442A2
A_51_P135618 Dlk1,FA1,ZOG,pG2,Peg9,SCP1,Ly107,pref-1
A_51_P103450 4930402F06Rik
A_51_P342466 9530056D24Rik
A_51_P443018 Sprr3,SPR3

A_51_P499223 Olfr8
A_51_P452875 1810008A14Rik
A_51_P357459 Ndufc2,G1,1810004I06Rik,2010300P09Rik
A_51_P316661 Ren1,Ren,Rnr,Rn-1,Ren-1,Ren-A,Ren1d,renin b
A_51_P154668 4933439C20Rik,MGC65558,MGC103350
A_51_P452854 Add2
A_51_P348397 Clp1,HIS1,CLP-1,7330426E13Rik
A_51_P443053 Taf6,p80,80kDa,Taf2e
A_51_P304219 A930025D01Rik
A_51_P135607 4930522H14Rik,1700007J23Rik
A_51_P213870 Sost,5430411E23Rik
A_51_P304200 Krt1-1,Ha1,Kha1,MKHA-1
A_51_P342481 Gpd2,GPDH,Gdm1,Gpd-m,Gpdh-m,TISP38
A_51_P255336 Cdc2l1,p58,Cdc2l2,CDK11-p46,CDK11-p58,CDK11-
A_51_P103435 Rshl3,A230081C05
A_51_P135654 Eif4ebp2,4E-BP2,PHAS-II,2810011I19Rik
A_51_P154679 C530046L02Rik,mKIAA1171,9630033P11
A_51_P283384 V1rf3,Vfrf3
A_51_P386562 Ebf2,Mmot1,O/E-3,D14Ggc1e
A_51_P181170 Pmp47,47kDa
A_51_P181175 Trim54,MURF,Rnf30,MURF-3,4930486E09Rik,4930!
A_51_P179672 Hbb-bh1,betaH1
A_51_P134835 Elavl2,Hub,mel-N1
A_51_P229664 Tnfrsf7,Cd27,S152,Tp55
A_51_P361588 Rai1,Gt1
A_51_P357474 Atp6v1a1,VA68,VPP2,Atp6a1,Atp6a2
A_51_P386533 Loxl4,4833426I20Rik
A_51_P304239 Loxl1,Loxl
A_51_P134801 Ankrd12,GAC-1,ANCO-2,2900001A12Rik
A_51_P386539 Rnf125,4930553F04Rik
A_51_P135622 Dub2,Dub2b
A_51_P181152 Pot1,1500031H18Rik
A_51_P386549 Dncic2,3110079H08Rik
A_51_P154658 4931433A01Rik,4930578N11Rik
A_51_P451758 Rab3il1,AI115013,Rab3ail1,1200014K04Rik
A_51_P468456 S100a3,S100E
A_51_P119306 2810027O19Rik,4930522P10Rik
A_51_P218137 3300001H21Rik,Aam-B,2210414H16Rik
A_51_P229676 Plscr1,NOR1,TRA1,Tras1,Tras2,MmTRA1a,MmTRA
A_51_P119315 4930550G17Rik
A_51_P316673 2210407C18Rik,Ep1
A_51_P218179 Mdh1,MDHA,Mor2,MDH-s,Mor-2,B230377B03Rik
A_51_P348325 4933430F16Rik
A_51_P400279 4930532L20Rik
A_51_P154637 Nalp4f,Nalp-kappa,C330026N02Rik
A_51_P264323 4632412I24Rik,6030462G04Rik
A_51_P276142 Gpr37l1,CAG-18,D0Kist8
A_51_P492787 Scn9a,PN1,Nav1.7,KIAA4197,mKIAA4197
A_51_P209163 Ubl3,HCG
A_51_P113195 Upk1b,UPIb,Upk1,Tspan20
A_51_P295797 1700001O02Rik
A_51_P520690 Prkcsh,80K-H

A_51_P357433 Ap1g2,G2ad,Adtg2
A_51_P348372 BC067047,G630042G04
A_51_P423709 AW125753,Nse1,2310003N02Rik,4731402F03Rik
A_51_P229655 C730027J19Rik,C730019D22
A_51_P492797 BC027309,MGC28139
A_51_P505914 LOC260408
A_51_P154618 Dnahc6,mdhc6,KIAA1697,mKIAA1697,9830168K20,
A_51_P283323 Olfr1247,MOR231-6
A_51_P357422 2410022L05Rik,MGC11316,1700029I03Rik
A_51_P270725 Phkb,MGC62514
A_51_P451719 6430628N08Rik
A_51_P247249 Alo5,5LO,5LX,5-LO,5-LOX,F730011J02
A_51_P218165 Tbc1d13,MGC38260,2600014A06Rik
A_51_P229602 Plxn2,OCT,Plxn2,mKIAA0463,2810428A13Rik
A_51_P468418 Narg2,B230343B06Rik
A_51_P103499 Spesp1,4921508E09Rik
A_51_P400269 Slc38a5,SN2,JM24,E330031E14
A_51_P222577 Ap4b1
A_51_P465161 0610010D20Rik
A_51_P423762 Ralgs1,RALGEF2,RALGPS1A,mKIAA0351,5830411
A_51_P427483 Pigb,Pig-b
A_51_P132483 1700013H16Rik
A_51_P229633 2610304G08Rik,2810446G03Rik
A_51_P229613 Pcsk2,PC2,Nec2,SPC2,Nec-2,Phpp-2,6330411F23R
A_51_P236175 Rit1,Rit,RIBB,ROC1
A_51_P209150 Pcdh10,mKIAA1400,6430521D13Rik,6430703F07Ri
A_51_P283300 Cacnb2,Cchb2
A_51_P400236 Ywhae
A_51_P505907 Tcl1b2
A_51_P465148 Ctsb
A_51_P348334 Ppara,Ppar,Nr1c1,PPARalpha,PPAR-alpha
A_51_P423743 Cldn6
A_51_P201450 3830408D24Rik
A_51_P400228 Serpinb10,9830131G07
A_51_P400203 Nr1h2,UR,Unr,LXRB,NER1,OR-1,Unr2,RIP15,LXRb
A_51_P486350 1700058F15Rik,Izumo
A_51_P295701 Slc39a13,1100001L14Rik
A_51_P322220 Bri3bp,2410150I18Rik
A_51_P139296 Cyln2,Clip1,WSCR4,wbscr4,CLIP-115,B230327O20
A_51_P201400 Olfr912,MOR165-4
A_51_P222543 Atp2b1,Pmca1,2810442I22Rik,E130111D10Rik
A_51_P154684 Thoc4,ALY,REF1,Refbp1
A_51_P357486 C330027G06Rik
A_51_P283344 1700011H14Rik
A_51_P492707 Ptpro,GLEPP1,PTP-BK,PTP-U2,PTPROt,PTP-phi
A_51_P435447 Ppfia2,KIAA4112,mKIAA4112,5330438O12,B230207
A_51_P505943 Fbxo44,FBG3,FBX30,Fbx6a,Fbxo6a,5730411K09
A_51_P505941 A830025F02Rik
A_51_P486320 1700042B14Rik
A_51_P199899 Fto,mKIAA1752
A_51_P283359 GA_x5J8B7W2BV0-3116-4045
A_51_P448032 Cox6b1,Cox6b,2010000G05Rik

A_51_P322265 Grap,8430435N19Rik
A_51_P108901 D19Ertd678e,4933411H20Rik,6720480F16Rik
A_51_P108489 Gtl3,T10-2A2,2600014O15Rik
A_51_P435428 Mag,Gma,siglec-4a
A_51_P288479 Slc25a29,CACL,mCACL,C030003J19Rik
A_51_P451799 Espn,je
A_51_P264388 Mapk8ip3,Jip3,Syd2,JIP-3,JSAP1,JSAP1a,JSAP1b,J
A_51_P183853 Grinl1a,KIAA4185,D9Wsu138e,mKIAA4185
A_51_P448056 Mospd2,2410013I23Rik
A_51_P312540 1700041B01Rik
A_51_P288447 Nup133,4832420O05Rik
A_51_P322285 4930573I19Rik,mKIAA0297
A_51_P174407 BC028528,L259,MGC41379
A_51_P288459 5430432H19Rik
A_51_P492743 1300007O09Rik
A_51_P236118 Ptpn18,FLP1,HSCF,Ptpk1,PTP-K1,PTP-HSCF
A_51_P322273 Ptp4a3,Prl-3
A_51_P203916 Flt3,Ly72,CD135,Flk-2,Flt-3,B230315G04
A_51_P222590 Arf6,MGC102530
A_51_P435410 Grid2ip
A_51_P256466 Atf7,AI549878,MGC31554,1110012F10Rik,9430065I
A_51_P337740 Tssk6,Sstk
A_51_P108459 Gpr65,Dig1,TDAG8,Gpcr25
A_51_P237575 6330407G11Rik
A_51_P201480 Stat3,Apf,1110034C02Rik
A_51_P492765 2410118I19Rik,1300003A18Rik
A_51_P157462 Rgn,SMP30
A_51_P157460 Scmh1,Scml1,Scml3
A_51_P163188 Rin2,RASSF4,2010003K16Rik,4632403N06Rik
A_51_P174415 BC038286,MGC47289
A_51_P312517 Fzd8,Fz8,mFZ8
A_51_P166044 Zipro1,RU49,Zfp38,Zfp-38,CTfin51
A_51_P309618 1600012F09Rik
A_51_P108408 Bpgm
A_51_P199832 Zbed4,MGC59429
A_51_P145130 Mcpt4,Mcp-4,MMCP-4,MMCP-4A,MMCP-4B
A_51_P309677 Tbc1d19,2810453K03Rik
A_51_P288419 TC977792
A_51_P166023 Hip1,HIP-1,KIAA4113,MGC27616,mKIAA4113,2610
A_51_P337771 Pcdhb17,PcdhbQ,Pcdhb16,mKIAA1621
A_51_P237599 Aplp2
A_51_P342535 Rnf166
A_51_P218292 Stac
A_51_P108978 Myadm,D7Wsu62e
A_51_P443101 2900027M19Rik
A_51_P342549 Hand1,Hxt,Th1,eHAND,Ehand1,Thing1
A_51_P361049 1110018J18Rik
A_51_P108973 4931414P19Rik
A_51_P172952 A830018L16Rik,VEST1
A_51_P312528 Gcn5l2,1110051E14Rik
A_51_P236197 Rpo1-4,mRPA1,194kDa,RPA194,3010014K16Rik
A_51_P279583 Olfr1245,MOR231-12

A_51_P315144 Letm1
A_51_P172947 4933402N03Rik,4930412O05
A_51_P120645 2300006N05Rik
A_51_P120615 Rabl3,4930553C05Rik
A_51_P166099 Dnase2b,Dlad,Dnasellb
A_51_P120608 Taf13,TAFII18,1810004N01Rik,2010309N11Rik
A_51_P103745 Dpp6,Rw,Dpp-6,Peplb,D5Buc3,D5Buc4,D5Buc5,ln(5
A_51_P342556 Zfhx4,Zfh4,Zfh-4,A930021B15,C130041O22Rik
A_51_P459908 Olfr56,IF7,MOR276-1
A_51_P108990 Cetn4,MGC107235
A_51_P120674 Elk3,Erp,Net,Etrp,Sap-2,D430049E23Rik
A_51_P145171 2610018G03Rik,Mst4
A_51_P342567 Akap12,Srcs5,SSeCKS,Tsga12
A_51_P486223 Th
A_51_P175758 9430023L20Rik
A_51_P108432 Ghrh,Ghrf
A_51_P462271 Agc1,Agc,cmd,Cspg1
A_51_P173555 Map2k1ip1,Mp1,Mapbp,MGC103121
A_51_P172935 Lyl1,Lyc2,1700038F02Rik
A_51_P361022 Cdc20,p55CDC,2310042N09Rik
A_51_P120636 E2f1,E2F-1,KIAA4009,mKIAA4009
A_51_P422194 Pxt1,Stepp,1700001G18Rik
A_51_P386638 Llgh,Mgl1
A_51_P173543 1700009J07Rik,4930535B06Rik
A_51_P181448 Bcat2,Eca40,Bcat-2
A_51_P204898 1700008A04Rik
A_51_P462249 Cks2,CKSHS2,1110038L14Rik
A_51_P386625 Epx,EPO
A_51_P179492 6720467C03Rik
A_51_P103718 lhpk1,InsP6,ltpk6,1200016D08Rik
A_51_P172917 Cmah
A_51_P432892 Sfrs5,MGC96781
A_51_P462286 1700129L13Rik
A_51_P279505 Rybp,YEAF1,MGC62213,2410018J24Rik
A_51_P274465 Sycp3,Cor1,Scp3
A_51_P204860 Ppfibp1,4632409B19Rik
A_51_P154987 Zfp296,2210018A16Rik
A_51_P179480 4930539E08Rik,9130014G02
A_51_P386612 Pir,2310042L19Rik
A_51_P462299 2610208M17Rik,MGC6869,MGC101949
A_51_P468780 Hmg20a,1200004E06Rik,5730490E10Rik
A_51_P103706 Cyp2c29,AHOH,Ah-2,Ahh-1,Cyp2c,AHOHase,P450-
A_51_P459944 Tcf21,epc,Pod1,Pod-1,capsulin,epicardin
A_51_P135379 Tceal8,3930402F23Rik
A_51_P398004 Mbd3
A_51_P386660 Faah
A_51_P274409 3830402K23Rik
A_51_P468770 4930455C21Rik,2810021C21Rik
A_51_P204845 Cugbp1,CUGBP,NAB50,CUG-BP,HNAB50,Brunol2,I
A_51_P133612 Ris2,Cdt1,2610318F11Rik
A_51_P319879 Acadm,MCAD
A_51_P459974 Lmo7,FBXO20,mKIAA0858

A_51_P135309 Nfat5,CAG-8,CAG80,nfatz,NFATL1,TonEBP,mKIAA(

A_51_P181400 1700073K01Rik,D830011E08Rik

A_51_P218216 Cnot1,MGC7843,D830048B13,6030411K04Rik

A_51_P451640 Sunc1,D630047F21Rik

A_51_P143431 Pde3b

A_51_P357983 Sin3b,2810430C10Rik

A_51_P357980 Gprin1,Z16,GRIN1

A_51_P251707 1700007I06Rik,MGC107247,4930403C08Rik

A_51_P279542 C5r1,C5aR,Cd88

A_51_P162474 Scml2,4932420G07Rik

A_51_P348057 3100002B05Rik,2010002A08Rik,2310040I21Rik

A_51_P179334 Tspyl2,CINAP,DENTT,MGC40973,DXBwg1396e,DX

A_51_P120680 AK082760

A_51_P279531 Ttc1,TPR1,4833412C19Rik

A_51_P361099 Adss,Adss2

A_51_P179436 B930096F20Rik

A_51_P335350 5530600A18Rik,MGC29030

A_51_P393671 Tm6sf2

A_51_P335329 Wdr26,1600024A01Rik

A_51_P465128 4631426J05Rik,BRAG,mKIAA0598

A_51_P492868 4933403M22Rik,Lmna1,Lmna-rs1

A_51_P204801 Cnih2,Cnil

A_51_P283499 Drd4,D4R,Drd-4

A_51_P251717 0610007P06Rik,1110002N09Rik

A_51_P143470 Timm44,Tim44,Mimt44,D8Erttd118e

A_51_P279552 Cav2

A_51_P468762 Al839550,C130099A02

A_51_P451606 Sox9,KIAA4243,mKIAA4243,2010306G03Rik

A_51_P348022 Cpsf5,25kDa,3110048P04Rik,5730530J16Rik

A_51_P229759 2310075M15Rik,mKIAA0230,E330004E07

A_51_P283447 Olfr1510,MOR223-6

A_51_P154913 AK037524

A_51_P303000 Btbd15,6030404E16Rik

A_51_P393654 D430039N05Rik

A_51_P201520 Cnot2,AW557563,MGC115808,2600016M12Rik,281

A_51_P135394 Mtch2,HSPC032,2310034D24Rik,4930539J07Rik

A_51_P357914 Pdc,Rpr1,Rpr-1

A_51_P206886 Vwf,VWD,F8VWF,C630030D09,6820430P06Rik,B13

A_51_P303018 V1rc6

A_51_P423008 Kihl7,Kihl6,SBBI26,D5Erttd363e,2700038B03Rik

A_51_P270436 D5Erttd40e,Hype

A_51_P423000 Adra2a,[a]2A,Adra-2,Adra-2a,[a]>2A<,alpha2A,[a]>2

A_51_P251736 Dp1,Reep5,DP1/TB2,TB2/DP1

A_51_P304397 Cpm,1110060I01Rik,5730456K23Rik

A_51_P279571 Syap1,2010110O17Rik

A_51_P492830 Cenph,ENP,CENP-H,1700021I11Rik,2410018A12Ri

A_51_P218278 Gpr173,Sreb3,3230401K02Rik

A_51_P154933 Zdhhc7,Gramp2

A_51_P247385 AK052909

A_51_P423030 Mta1

A_51_P319888 Tifp39,TIP39

A_51_P222882 Kcna1,MBK1,Mk-1,Shak,Kv1.1,mceph,Kca1-1

A_51_P316199 Olfr73,mOR-EG,MOR174-9,fascin-1
A_51_P283456 Cyp2e1,Cyp2e
A_51_P179461 1700027M21Rik
A_51_P247359 Ptprcap,LPAP,LSM-1,CD-45-AP
A_51_P154692 Olfr1333,MOR259-6,MOR259-11
A_51_P423027 Atp6v1c1,1700025B18Rik
A_51_P135389 4933409D10Rik
A_51_P283464 lcmt,PPMT,STE14,pcCMT,HSTE14,1700008E11Rik
A_51_P247393 9330101J02Rik
A_51_P295625 Arf4
A_51_P295621 Adamtsl3,KIAA1233,mKIAA1233,C130057K09
A_51_P154953 Slc22a13,OCTL1,OCTL3,ORCTL3
A_51_P486618 2310005E10Rik
A_51_P270444 ENSMUST00000056799
A_51_P486660 Fln29,1110008K06Rik
A_51_P179442 Adrb3,Adrb-3
A_51_P432802 Rbm4,lark,Mlark,4921506I22Rik
A_51_P283473 1110018M03Rik
A_51_P486668 1810064L21Rik,3110001A05Rik
A_51_P201532 Pcnt2,KEN,Pcnt,kendrin
A_51_P393624 Wdr19,PWDMP,C330027H04Rik,D330023L08Rik
A_51_P309184 Pxmp2,22kDa,PMP22
A_51_P113335 Al481105
A_51_P486639 2310028O11Rik
A_51_P288756 Plekha8,FAPP2,6330400G01
A_51_P108581 NAP033666-1
A_51_P322334 Rheb
A_51_P159113 Hr,N,AU,ba,rh,ALUNC,rhino,rh-bmh
A_51_P400123 Pik3c3,Vps34,5330434F23Rik
A_51_P133684 Csrp3,MLP,CRP3,MMLP
A_51_P406780 Serpinb9b,R86,Spi10,SPI-CI,ovalbumin,1600019A21
A_51_P451685 4932704I17Rik,1700007A21Rik
A_51_P222815 Zfp523,MGC66570,MGC79196,2810027J07
A_51_P195023 Exosc2,Rrp4,MGC30456
A_51_P264695 Crym
A_51_P288746 Myo18b,Gm448,1700095B10Rik,4932408L24Rik,49:
A_51_P395727 Scamp4,Sc4,2410022D05Rik,A430024H01Rik
A_51_P492893 Foxp4,mFKHLA,1200010K03Rik,2310007G05Rik
A_51_P159122 2410012C07Rik,VKIND,B830014K08Rik
A_51_P400190 Tyki,TDKI,1200004E04Rik
A_51_P303089 Al428795,MGC7623,6030435N04
A_51_P451696 NP302154
A_51_P295635 D730050B12Rik
A_51_P303097 Scgb3a2,Pnsp1,UGRP1,LuLeu1,Utgrp1
A_51_P113321 Olfr421,MOR105-3
A_51_P486629 1700129C05Rik
A_51_P113322 Nalp4a,NALP4,Nalp-eta,Nalp-ita,E330021B02,E3300
A_51_P236234 Sell,Lnhr,CD62L,Ly-22,Lyam1,Ly-m22,Lyam-1,LECA
A_51_P312452 Olfr698,MOR283-3
A_51_P309119 5530400C23Rik,GRP
A_51_P322396 Ugt3a1
A_51_P237418 4833422M21Rik

A_51_P172889 XM_145592
A_51_P139780 Pglyrp1,PGRP,Tag7,Tasg7,PGRP-S,Pglyrp,Tnfsf3l
A_51_P166107 2310051F07Rik
A_51_P288719 BC006965,MGC6956,MGC6983
A_51_P264685 Whrn,wi,bM340H1.8,mKIAA1526,1110035G07Rik,C
A_51_P166131 4930555F03Rik,A730024F11
A_51_P108573 B830009D23Rik
A_51_P172842 Med19,LCMR1,2410018M14Rik
A_51_P342629 2200002J24Rik
A_51_P172897 Foxj3,mKIAA1041,C330039G02Rik
A_51_P145453 Xist,A430022B11
A_51_P414815 Olfr552,MOR28-1
A_51_P414813 Erbb3,Erbb-3,Erbb3r
A_51_P108555 Olfr437,MOR261-11
A_51_P511707 2310079N02Rik
A_51_P342669 Pgam1,Pgam-1,MGC102422,2310050F24Rik
A_51_P166152 Spp2,pp-24,spp24,0610038O04Rik
A_51_P476518 2310040C09Rik
A_51_P145415 Grcc3f,C3f,PTG
A_51_P166155 Gmn, Gem
A_51_P386794 Myf6,MRF4,herculin
A_51_P269166 Mmp19
A_51_P373890 Guca1b,GCAP2,MGC36472
A_51_P515262 Amot,CAG-2,D0Kist1,mKIAA1071,E230009N18Rik
A_51_P477941 Fbxw4,Dac,Fbw4,SHFM3,SHSF3,dactylin
A_51_P108525 Plekha3,FAPP1
A_51_P462102 Gpr125,3830613O22Rik
A_51_P179342 Rab26,A830020M03Rik
A_51_P342604 Olfr13,K7,MOR261-6
A_51_P120729 1810060D16Rik
A_51_P342652 Cd79b,B29,Igb,Igbeta,Ig-beta
A_51_P476529 Lhb,LH,leutropin
A_51_P427663 Cnn2
A_51_P405089 BC005662,MGC8148,2900035H07Rik
A_51_P172872 Tceb1,2610043E24Rik,2610301I15Rik
A_51_P476538 5430417L22Rik
A_51_P477972 XM_146770
A_51_P373871 A130030D10Rik
A_51_P172801 0610016J10Rik,D930048L02Rik
A_51_P515242 D330017J20Rik,FAM40B,mKIAA1170
A_51_P476509 Zbtb38,A930014K01Rik
A_51_P145404 Tuba3,M[a]3,MGC107295
A_51_P312437 Dhrr7,retDSR4,retSDR4,2310016E22Rik
A_51_P256957 Ankmy2,ZMYND20,MGC18754
A_51_P348183 D2Ertd217e,1110065P14Rik
A_51_P304029 Ep300,p300,A430090G16,A730011L11
A_51_P181312 Dcxc,0610038K04Rik,1810027P18Rik
A_51_P135416 2700082O15Rik,239Fb
A_51_P312482 2810027O19Rik,4930522P10Rik
A_51_P312485 Fpr1,FPR,LXA4R,fMLF-R
A_51_P235548 Mtmr9,MTMR8,mMTMH3,LIP-STYX,MGC54783,943
A_51_P443618 0610011F06Rik

A_51_P166198 Psme4,TEMO,mKIAA0077
A_51_P459811 Gbx1,Gbx-1
A_51_P462192 Olr1,LOX-1,SR-EI,Scare1
A_51_P103000 Pitpnm1,Rd9,RdgB,DRES9,mpt-1,Pitpnm
A_51_P326892 Myt1l,Nztf1,Pmng1,Png-1,mKIAA1106,2900046C06F
A_51_P135423 Capzb,CPB1,CPB2,Cappb1,CPbeat2,CPbeta1,CPbc
A_51_P235580 Dap3,DAP-3,4921514D13Rik
A_51_P373814 Pank1,Pank,Pank1a,Pank1b,panK1beta,4632412I06
A_51_P312497 Atp7a,Mo,br,Blo,l14,MNK,blotchy,mottled,brindled,D
A_51_P218789 Olfr851,MOR155-1
A_51_P304002 BC026657,Skt,6620402G01Rik,9430077C05Rik,E33
A_51_P256945 D630048P19Rik,OPA3,Gm472,Gm1425
A_51_P342688 Itk,Emt,Tsk,Tcsk
A_51_P423143 C030006K11Rik,MGC38904,1110033I13Rik
A_51_P520412 B230208H17Rik
A_51_P181365 Usmg5,2010301L15Rik
A_51_P264554 Vps29,PEP11,2010015D08Rik
A_51_P145480 Zic4
A_51_P357664 Hras1,ras,H-ras,Kras2,Ha-ras,Hras-1,c-H-ras,c-Ha-r
A_51_P235594 Xpo7,Ranbp16
A_51_P179194 1700080E11Rik
A_51_P327121 Was,Wasp
A_51_P361788 Vapa,33kDa,VAP33
A_51_P279465 Farsla,0610012A19Rik
A_51_P486188 Pabpc2,PABP,PABP+,Pabp2
A_51_P459894 Sprr2b
A_51_P348154 Olfr1317,MOR245-4
A_51_P335014 Arx
A_51_P443693 Rasl10b,Gm729,VTS58635,B230331P10Rik
A_51_P181341 Efcbp2,Necab2
A_51_P218774 Rgs10,2310010N19Rik
A_51_P247472 Rap2b,4021402C18Rik
A_51_P357647 Angptl1,ANG3,ANGY,ARP1,ANGPT3,MGC100363,2
A_51_P443686 Gng7
A_51_P264084 Rab36,6330593L16Rik
A_51_P218742 Tisp78
A_51_P357606 Lrrc8,MGC61242,mKIAA1437
A_51_P270146 Ccnh,6330408H09Rik
A_51_P255193 2210404D11Rik,mKIAA0887
A_51_P143773 4930578I07Rik
A_51_P247421 1700026J04Rik
A_51_P283590 Anxa1,Lpc1,Anx-1,Lpc-1,Anx-A1
A_51_P251617 Olfr1214,MOR233-8
A_51_P247412 3200001D21Rik
A_51_P492595 Fbxo42,mKIAA1332,6720460I06Rik
A_51_P163354 LOC239017
A_51_P179131 Vasp
A_51_P486121 Laf4
A_51_P154840 1700080G18Rik
A_51_P283423 4930553F24Rik,Slb,wim,lft172
A_51_P179114 Emb,Gp70,MGC21425
A_51_P283563 Zbtb26,A630026F21Rik

A_51_P154818 4930505H01Rik
A_51_P251664 Csnd,Csne,Csn1s2b
A_51_P332642 Ankrd16,2810455F06Rik,D430029B21Rik
A_51_P154824 4930517G15Rik,4930540C21Rik
A_51_P179125 D2Ertd485e
A_51_P348119 Ube2q,NICE-5,PRO3094,1110002C01Rik,2310012M
A_51_P264534 2410124H12Rik
A_51_P279473 Cts8,CTS2,Epcs68,Epcs70
A_51_P209771 Prrx1,K-2,Pmx1,Prx1,mHox,A230024N07Rik
A_51_P486132 Ppp1r8,NIPP1,MGC38560,6330548N22Rik
A_51_P357696 2810454F19Rik
A_51_P322016 Gsh1,Gsh-1
A_51_P154867 Tm4sf11,Plapi,0610010I06Rik
A_51_P267913 Btn2,D030063K05
A_51_P295525 2610528E23Rik,1110001A06Rik,4930572F24Rik
A_51_P398791 Dmd,mdx,pke,Dp427,DXSmh7,DXSmh9
A_51_P486174 Sva
A_51_P322000 Lrp2,Gp330,Megalin,D230004K18Rik
A_51_P251684 Olfr195,MOR184-5
A_51_P264527 B230317C12Rik,PIP49
A_51_P229547 Nrnx1,mKIAA0578,1700062G21Rik,9330127H16Rik.
A_51_P437478 Zfp566,mszf4,2700043M03Rik
A_51_P295511 Aanat,Nat4,SNAT,Nat-2
A_51_P395803 Olfr401,MOR255-6
A_51_P357773 Kcnj16,Kir5.1,6430410F18Rik
A_51_P283516 Sox11,end1,1110038H03Rik,6230403H02Rik
A_51_P247496 C030003D03Rik
A_51_P311820 Mgmt,AGT,Agat
A_51_P154852 2310015I08Rik,TLSP,Prss20
A_51_P197415 1700025B16Rik,D9Bwg1371e
A_51_P451957 Cpne6
A_51_P336998 H13,Spp,H-13,PSL3,1200006O09Rik,4930443L17Ri
A_51_P511418 1700108M19Rik,4933421E18Rik
A_51_P295575 Cutc,CGI-32,2310039I18Rik
A_51_P486144 Tagap,FKSG15
A_51_P322056 Eif2b3,1190002P15Rik
A_51_P290981 Cyp7a1
A_51_P335081 Gnb1,Gnb-1
A_51_P337523 Adcy2,MGC47193,mKIAA1060
A_51_P357685 Dhx16,DBP2,Ddx16,2410006N22Rik
A_51_P237374 2900093B09Rik
A_51_P515768 Pdlim7,1110003B01Rik,2410002J21Rik
A_51_P270184 Nhirc2,1200003G01Rik
A_51_P295558 2310057D15Rik
A_51_P515777 C330029B10Rik,mKIAA0222,D230016L03
A_51_P309488 1810058N15Rik
A_51_P443740 Fgf16
A_51_P108629 Csh2,PL,PI2,PI-2,mpIII
A_51_P342707 Pold2,p50,50kDa,po1D2
A_51_P337543 Glce,Hsepi,1110017N23Rik,C130034A12Rik
A_51_P108659 Pon1,Pon
A_51_P108645 Itsn1,Ese1,Itsn,EHSH1,Sh3p17,Intersectin

A_51_P405129 4921513E08Rik
A_51_P322095 Zfp339,MOVO,Ovo2,M-OVO,Ovol2,M-OVO-A,M-OV
A_51_P342716 Ppp1cb,1200010B19
A_51_P166244 Osbpl1a
A_51_P477863 Tde1,AIGP1,TMS-1,DIFF33
A_51_P386080 Nrpf1
A_51_P462461 Cyyr1
A_51_P405167 Maf,c-maf,2810401A20Rik,A230108G15Rik
A_51_P120470 Cd68,gp110,Scard1
A_51_P145376 2900060B22Rik
A_51_P166277 Srrm2,mKIAA0324,5033413A03Rik
A_51_P235403 AK037055
A_51_P405135 Bat2d,Bat2d1,mKIAA1096,A630006J20,1810043M2
A_51_P145322 Pax1,un,wt,hbs,Pax-1,hunchback,undulated
A_51_P296274 Rutbc1,mKIAA0397,D630003G22Rik
A_51_P166266 Ticam2,TRAM,Tirp,Trif,TICAM-2,B430113A10
A_51_P120448 Echdc1,D10Ertd667e,1700028A24Rik
A_51_P173709 Gprc5b,Raig2
A_51_P304170 5830458K16Rik,Rtp4,lfrg28
A_51_P342773 TC950516
A_51_P218091 Gpr49,FEX
A_51_P145360 Sdk1,5330440E10,6720466O15Rik
A_51_P443702 Mrps34,Tce2,0610007F04Rik,5330430D13Rik
A_51_P235415 A030009A06Rik
A_51_P242859 Akr1c12
A_51_P181691 Card15,CD,ACUG,BLAU,IBD1,Nod2,F830032C23Ril
A_51_P361242 A730011L01Rik
A_51_P145357 Serf2,Msmac1l,m4F5rel
A_51_P477850 Ncdn,Ms10ae,norbin,MMS10-AE,mKIAA0607
A_51_P235426 Hist1h2be
A_51_P408537 Trim27,Rfp
A_51_P342782 A_51_P342782
A_51_P120415 Olfr507,MOR204-7
A_51_P212164 1200016B10Rik,C1orf26
A_51_P386058 Ppp2r5b
A_51_P173760 Actb,Actx,beta-actin,E430023M04Rik
A_51_P103541 Cacna1s,sj,fmd,mdg,Cav1.1,Cchl1a3
A_51_P145340 Olfr1115,MOR264-20
A_51_P386046 Ube1dc1,5730525G14Rik
A_51_P166288 Acy1,Acy-1,1110014J22Rik
A_51_P443723 Slc35c1,fuct1,E430007K15Rik
A_51_P139069 Wdr45,JM5,Sfc19,Wdrx1,DXlmx38e
A_51_P378941 C230079D11Rik,Gm329,Gm945,D430002O22Rik,D
A_51_P103533 Lmtk2,BREK,KPI2,cprk,KPI-2,2900041G10Rik,A330
A_51_P361220 Fzd4,Fz4
A_51_P235448 Olfr544,Ors6,MOR42-3
A_51_P235440 4930563C04Rik,Pelp1
A_51_P342786 Mlh3,MGC100285
A_51_P103509 Cyb561d2,Tsp10
A_51_P255016 Sp100,A430075G10Rik
A_51_P145380 Zar1
A_51_P209836 4930532D21Rik

A_51_P386003 A_51_P386003
A_51_P378903 Olfr1260,MOR232-2
A_51_P212184 3110001D03Rik,1700027K24Rik
A_51_P173741 Abl2,Arg,Abll
A_51_P179293 2310002L13Rik
A_51_P212191 Txnl6,RdCVF,MGC27601,MGC28867,A930031O08F
A_51_P378967 Cntf,MGC41235
A_51_P378960 2810474O19Rik,KIAA1551,mKIAA1551,6720435I21I
A_51_P468599 Smchd1,mKIAA0650,4931400A14Rik
A_51_P181623 2410005H09Rik,MGC38830
A_51_P154973 Stard3,es64,Mln64
A_51_P386031 Sap18,EMegR4,Sinbp1,D11Ert539e,C530046K05R
A_51_P378932 2510048L02Rik
A_51_P286106 5033430I15Rik
A_51_P279714 Olfr615,MOR19-2
A_51_P413721 Gje1,Cx29
A_51_P443782 4921523P09Rik
A_51_P279704 AA536743
A_51_P103396 Krt2-18,Hb5
A_51_P468558 Trem14,TLT4,IDCP1,Trem13,5031403H21Rik
A_51_P326922 NAP057043-1
A_51_P179103 Tshr,hyt,pet,hypothroid
A_51_P255082 Ctbs,CTB,2210401K11Rik
A_51_P103594 9430073N08Rik
A_51_P218009 Efna5,AL-1,Epl7,RAGS,EFL-5,LERK-7,Ephrin-A5
A_51_P270635 2810423A18Rik
A_51_P474538 A330103N21Rik
A_51_P468544 Sox3,Sox-3
A_51_P400375 0610007P14Rik,ORF11,1190004E09Rik
A_51_P264884 Snx8,B130023O14Rik
A_51_P468531 Abcf3
A_51_P143224 Mbd1,PCM1,Cxxc3
A_51_P500424 Dnttip1,6430706C13Rik
A_51_P303217 1110017I16Rik
A_51_P236074 Prlpf,PLP-F
A_51_P143232 Wdr59,5430401O09Rik
A_51_P451822 4930413P14Rik
A_51_P468505 MGC102419
A_51_P322123 1700012B15Rik,1810036A22Rik
A_51_P283507 Abca13,A930002G16Rik
A_51_P303238 1110014C03Rik,Tmp21,MGC102351
A_51_P303231 Gna12
A_51_P400366 Rhbg
A_51_P451808 3230401D17Rik
A_51_P159367 C230040D10Rik,Gm1105
A_51_P270666 E430026A01Rik,D030048C09
A_51_P451837 Csnk1a1,Csnk1a,MGC29354,MGC30571,2610208K
A_51_P322138 Hspb2,MKBP,27kDa,HSP27,2810021G24Rik
A_51_P381584 Stx6,2310039E05Rik,2410005I16Rik
A_51_P236053 Kcnd1,Shal,Kv4.1,Kca2-1,mShal1,1110037K09Rik
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A_51_P251552 2310028N02Rik

A_51_P423219 Pum1,Pumm,mKIAA0099
A_51_P400311 4930550C14Rik
A_51_P270605 Dusp15,T-DSP10,LMW-DSP10
A_51_P283649 AA881470
A_51_P275268 4933421I07Rik
A_51_P113129 Atp1b4,1110020B02Rik
A_51_P322115 Htr5b,5-Ht5b
A_51_P283639 Sec23ip,D7ErtD373e
A_51_P264835 Epn2,lbp2,9530051D10Rik
A_51_P113137 Elf1,p70,Sts1,Elf-1,mElf-1
A_51_P515452 Fkbpl,NG7,DIR1,Wisp39,Ppiase-X
A_51_P462746 Tex10,MGC11792,2610206N19Rik,2810462N03Rik
A_51_P264878 Emid1,CO-5,Emu1
A_51_P113178 6530418L21Rik
A_51_P492676 Sardh,MGC6279
A_51_P295442 Nek7
A_51_P108788 BC018465,MGC27784
A_51_P125882 Glp2r,GLP-2,9530092J08Rik
A_51_P322170 Csh1,PI1,PL-I,PI-1,PL-Ia,MGC76481,PL-I-alpha
A_51_P236013 Rnf40,MGC19037,mKIAA0661
A_51_P264850 AF346502,cg003
A_51_P247591 Aamp,Aamp-rs,MGC30660
A_51_P413507 2010109A12Rik
A_51_P288549 Pla2g4b,Gm1013,MGC28892,A030011C02Rik
A_51_P173961 Pdrg1,Pdrg,1110004D19Rik
A_51_P423290 Mmrn1,Mmrn,Emilin4,4921530G03Rik
A_51_P166325 Ttc5,MGC38092,5930437N14
A_51_P125866 Spna2,brain,Spna-2,2610027H02Rik
A_51_P264866 Olfr1395,MOR277-1
A_51_P492640 Klf3,Bklf,Tef-2,9930027G08Rik
A_51_P337655 1700022L09Rik
A_51_P492648 TC949232
A_51_P521125 4931428D14Rik,2300003H10
A_51_P309740 Usp40,C730029K03,B230215L03Rik
A_51_P173906 Mto1,2310039H01Rik,5730419A02Rik
A_51_P108778 Rce1,D19ErtD98e,D19ErtD283e,9030625N01Rik
A_51_P515446 Cyp39a1
A_51_P237206 Utf1
A_51_P435922 1700027N10Rik
A_51_P336830 Fabp4,Ap2,Lbpl,ALBP/Ap2
A_51_P125842 BC003277,FLJ10199
A_51_P337675 Cd53,Ox-44,Tspan25
A_51_P280890 Phkg1,Phkg
A_51_P280893 Pla2g1b,Pla2a,sPLA2IB
A_51_P229644 Shh,Dsh,Hhg1,9530036O11Rik
A_51_P491916 Rassf6,1600016B17Rik
A_51_P108757 Fuca1,Afuc,Fuca,0610006A03Rik,9530055J05Rik
A_51_P435911 Hsd3b7
A_51_P462311 Hist1h2bc,H2bfs,2610022J01Rik
A_51_P515462 Olfr516,MOR268-2
A_51_P145662 Clec4g,4930572L20Rik
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A_51_P125825 2810422M04Rik,DZIP1,mKIAA0996,2510025K24Rik
A_51_P146080 Pak6
A_51_P462708 Wfdc15,SWAM1,9230106L14Rik
A_51_P139597 Fbxl10,Cxxc2,Fbl10,PCCX2,KIAA3014,mKIAA3014,
A_51_P166339 Avil,DOC6,Advil
A_51_P491976 Fbxw17,1110064L07Rik
A_51_P309744 Gpr89,SH120,4933412D19Rik
A_51_P435947 Tnrc11,Mopa,OPA-1,230kDa,Trap230
A_51_P443443 5830417110Rik,1500041I23Rik,2610100B20Rik,3632
A_51_P388281 Ccr6,Cmkbr6
A_51_P279683 Ahi1,Ahi-1,D10Bwg0629e,1700015F03Rik
A_51_P235726 Icam4,Cd242,ICAM-4,1810015M19Rik
A_51_P435979 4930485D02Rik
A_51_P386189 Tnk2,Ack,ACK1,Cdgp1,MGC37479
A_51_P108701 Psmc2
A_51_P166346 1700112P19Rik
A_51_P181599 Speer1-ps1,SPEER-1,Speer1-ps,4921519H07Rik
A_51_P386182 Magi2,Acvri1,Magi-2,S-SCAM,Acvrip1,Acvrip1,mKl/
A_51_P435968 Tnfaip8,Nded,Gg2-1,Scs-2,E130304C20Rik
A_51_P448140 Cd22,Lyb8,Lyb-8,A530093D23
A_51_P237281 Mrps18b,2400002C15Rik
A_51_P235764 Olfr659,MOR34-4
A_51_P454782 Serpinb7,megsin,ovalbumin,4631416M05Rik
A_51_P279693 Cyp1a1,AHH,AHRR,CP11,P450-1
A_51_P486308 4930473A06Rik,4930418J05Rik
A_51_P288592 Prdx5,AOPP,PrxV,Pmp20,Prdx6,AOEB166
A_51_P173459 E130304F04Rik
A_51_P462364 Freq,Ncs1,Mfreq,NCS-1,9430075O15Rik,A730032G
A_51_P103890 Kalrn,DUET,TRAD,Gm539,Hapip,AV235988,221040
A_51_P476711 Skiv2l2,mKIAA0052,2610528A15Rik
A_51_P235705 Tsfm,EF-TS,EF-Tsmt,2310050B20Rik,9430024O13F
A_51_P361111 4930503B16Rik
A_51_P476728 Neo1,2610028H22Rik,D930014N22Rik
A_51_P361120 Dus2l,2310016K04Rik
A_51_P279623 2900092E17Rik
A_51_P166394 Ap1s1,AP19
A_51_P263844 Zfp449,9530049C15Rik
A_51_P204982 Olfr76,V5,MOR215-3
A_51_P443412 Scube1,7330410C13Rik,A630023E24Rik
A_51_P135242 Mink1,B55,MINK,Ysk2,Map4k6
A_51_P491987 Ripk3,Rip3,2610528K09Rik
A_51_P173445 E130106K10Rik,Gm212
A_51_P174943 Lamc2
A_51_P443403 Smoc1,SRG,2600002F22Rik
A_51_P405283 9130221D24Rik,MGC54810
A_51_P235775 Mastl,THC2,2700091H24Rik
A_51_P154842 Oas1f
A_51_P209930 Rtn2,Ms10p,Nspl1,RTN2-B,MMS10-P,MGC35990
A_51_P462385 G6pc,G6pt,G6Pase,Glc-6-Pase
A_51_P378825 Actr8,ARP8,5730542K05Rik
A_51_P342082 Tmem4,Zsig9,D10Bwg1546e,5330432A10Rik
A_51_P247665 Ttc15,CGI-87,D930014A20Rik

A_51_P279601 Mtdh,3D3,Lyric,3D3/Lyric,D8Bwg1112e,2610103J23
A_51_P204966 Krtap13,4C32
A_51_P181565 Hbegf,DTS,Dtr,Hegfl,HB-EGF,MGC107656
A_51_P135268 Corin,Lrp4,MGC118735
A_51_P453376 Ros1,Ros-1,c-ros
A_51_P173469 3110043L15Rik,ProSAPiP2
A_51_P515482 Copz1,D4Ert360e,5930435A22Rik
A_51_P263853 Tspan11,1110014F12Rik
A_51_P181517 Fcgr3a,Fcrl3,CD16-2,4833442P21Rik
A_51_P204913 Bag2,MGC36682,2610042A13Rik
A_51_P235798 Zfp361l,Brf1,ERF1,cMG1,Berg36,TIS11b,D530020L
A_51_P103819 Trib2,TRB-2
A_51_P209965 2010004B12Rik
A_51_P386113 B230112C05Rik
A_51_P476798 Olfr2,l7,l54,Olfr41,MOR103-15
A_51_P173484 4930465P12Rik
A_51_P516148 Trpc4,CCE1,Trp4,Trpp4,STRPC4
A_51_P320852 Cd9,Tspan29
A_51_P143528 Zfp184,MGC62472,4930500C15Rik
A_51_P251433 1500035H01Rik,c11orf2
A_51_P103865 2010007H12Rik,2010011D20Rik
A_51_P218535 Neb
A_51_P443482 Hnrpa3,hnRNPA3,MGC37309,MGC101940,2410013
A_51_P283698 Erbb4
A_51_P264769 Dmp1,PP,Dmp
A_51_P251402 Tgds,2610017J16Rik,2610025M23Rik
A_51_P361184 Ndufb2,8kDa,AGGG,1810011O01Rik
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A_51_P218548 1300006C19Rik,Simp
A_51_P204924 1700016M24Rik
A_51_P181523 1110039B18Rik,AI841294,FLJ20254,4921530J21Rik
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A_51_P251438 9130004C02Rik
A_51_P423308 Igfbp2,Igfbp-2
A_51_P364031 2900001O04Rik,Osrf,2410099M07Rik
A_51_P270355 Dcamk1,DCLK,Cpg16,mKIAA0369,1700113D08Rik,
A_51_P270350 Esco1,A930014I12Rik
A_51_P222993 0710005I19Rik,MGC54820
A_51_P191199 Gypc,Cd236r,0610037F22Rik
A_51_P218510 1700052H20Rik
A_51_P247614 6330419J24Rik
A_51_P218518 Fiz1,FLJ00416,mFLJ00416
A_51_P270364 Mmaa,MGC37960,2810018E08Rik
A_51_P201884 Dsp,DP,2300002E22Rik,5730453H04Rik
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A_51_P413665 Prlpk,Plpk,PLP-K,mPLP-K,2310047B08Rik
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A_51_P364014 Inpp5a
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A_51_P395686 5830405M20Rik

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A_51_P500544 Mfsd1,1200003O06Rik
A_51_P357858 Rab10
A_51_P486748 Opn1mw,Gcp
A_51_P394946 Dusp19,SKRP1,TS-DSP1,5930436K22Rik
A_51_P322640 Ccl24,CKb-6,MPIF-2,Scya24
A_51_P341918 Tgfb1i4,TSC,Egr5,TSC-22
A_51_P486738 Xrcc6,Ku70,70kDa,G22p1
A_51_P303147 1700113O17Rik
A_51_P283708 Msh2
A_51_P492346 0610009B10Rik
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A_51_P295355 Creb3l1,Oasis,MGC25246
A_51_P371536 6030468B19Rik
A_51_P283754 5730453I16Rik,MGC46982,C330017N18Rik
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A_51_P371500 Atp8b3,ATPIK,SAPLT,1700042F02Rik,1700056N23I
A_51_P247694 Gpr97,Pb1,Pb99,A030001G24Rik
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A_51_P303160 Arg1,Al,PGIF,Arg-1,arginase I
A_51_P206971 Mnat1,P36,MAT1,E130115E11Rik
A_51_P197259 Cct7,Ccth,Cctz
A_51_P492366 Bmp7,OP1
A_51_P322612 Agpat1,1-AGP,1-AGPAT
A_51_P159042 Gzmd,CCP5,Ctla5,Ctla-5
A_51_P222936 Fmnl2,Man,5430425K04Rik
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A_51_P364099 2310007F12Rik
A_51_P295365 2610021A01Rik
A_51_P209518 Galnt1
A_51_P201873 Gpr88,Strg
A_51_P136578 Phf21b,A730032D07Rik
A_51_P492339 Cyp2b13
A_51_P113274 Hps6,ru,MGC31055,5330434M19Rik
A_51_P191100 Rtdr1,4933431K05Rik
A_51_P288891 Tbc1d15,4432405K22Rik
A_51_P357996 Defb3,mBD-3
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A_51_P295315 Ankrd2,Arpp,mArpp
A_51_P113222 Sec3l1,SEC3,EXOC1,Sec3p,2810407P21Rik,A7300
A_51_P304603 AK029975
A_51_P446886 7530403E16Rik
A_51_P191116 A_51_P191116
A_51_P388325 Clgn,Cln,4930459O04Rik
A_51_P222953 Glis,6330442B14,B230365M23Rik
A_51_P166456 Fzd5,Fz5,5330434N09Rik
A_51_P491853 Trip12,Gtl6,MGC31615,1110036I07Rik,6720416K24

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A_51_P388310 Cdk6,Crk2,AI504062,5830411I20
A_51_P309889 5430410O10
A_51_P264785 Ribc2,Trib,4930579A10Rik
A_51_P113242 Dnchc2,DHC2,DHC1b,DYH1B,mKIAA1997,4432416
A_51_P388329 Laf4,LAF-4,3222402O04Rik
A_51_P515997 Zfml,Np220,mNP220
A_51_P288839 DXImx46e,Sfc7
A_51_P446825 6430573F11Rik
A_51_P454422 9030205A07Rik
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A_51_P435830 4930535E21Rik,Tzip1,Gm1117
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A_51_P435809 Amfr
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A_51_P304643 Wnt10b,Wnt12
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A_51_P511608 Mtag2,MAG
A_51_P342106 Spdy1,GS4,1110039F03Rik,4921517J08Rik,493054
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A_51_P413740 Ftcd
A_51_P386280 Olfr187,MOR183-8
A_51_P139641 gag,env
A_51_P342126 4922503N01Rik,MGC37599
A_51_P491835 2900009J20Rik
A_51_P263983 Olfr1280,MOR248-1
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A_51_P312909 Cyp2j13
A_51_P212308 Cxadr,CAR,MCAR,2610206D03Rik
A_51_P235604 Cml1,1110002I11Rik
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A_51_P235644 Prosc,1700024N20Rik,2200002F22Rik
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A_51_P103117 4932414J04
A_51_P515937 Galnt11,A430075I06Rik,E430002F06Rik
A_51_P279183 BC021917,MGC28742
A_51_P263965 Hmox1,HO-1,Hmox,Hemox,Hsp32,D8Wsu38e
A_51_P405358 Pcdhga7
A_51_P413756 V1rc19
A_51_P435858 TC1070739
A_51_P312916 BF464414
A_51_P515965 Nfe2,p45,45kDa,NF-E2,p45NFE2,p45nf-e2
A_51_P263953 Olfr1167,MOR174-16
A_51_P212390 Kik10,NES1,PRSSL1,2300002A13Rik
A_51_P267754 Icam2,CD102,Ly-60,Icam-2
A_51_P267751 Hrc
A_51_P218682 4930588N13Rik
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A_51_P279154 Rex3,Bex1,MGC107097
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A_51_P312952 2410004F06Rik,ECAT8,2410070K17Rik
A_51_P476449 Olfr457,MOR257-1
A_51_P303079 1810017F10Rik
A_51_P408703 1700045I19Rik
A_51_P458973 Pygm
A_51_P179082 Top3b
A_51_P462692 Ptbp1,Ptb,PTB2,PTB3,PTB4,pPTB,HNRPI,PTB-1
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A_51_P499905 Gtf2i,SPIN,TFII-I,WBSCR6,BAP-135
A_51_P255675 Cpz
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A_51_P279163 Plcg2,Plcg-2,MGC38590
A_51_P235687 Alox5ap,Flap
A_51_P499960 Olfr1157,MOR174-1
A_51_P189418 Nudt4,DIPP2,HDCMB47P,DIPP2beta,DIPP2alpha,49
A_51_P218653 Jph2,Jp2,JP-2,1110002E14Rik
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A_51_P251357 Ctps
A_51_P162008 Adamts12,ADAMTS-12
A_51_P270050 6530421E24Rik,Gm755
A_51_P251352 Slc25a13,Ctrn
A_51_P218612 Mtr,MS,D830038K18Rik
A_51_P408800 2310015N21Rik
A_51_P324484 Al849053,A830099K13

A_51_P498558 Stac2,24b2,MGC38869,24b2/STAC2
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A_51_P279100 Ptgs1,COX1,Cox-1,Cox-3,Pghs1
A_51_P162017 AK031275
A_51_P364146 Ldh1,Ldha,LDH-A,Ldh-1
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A_51_P492488 Hist1h3d,H3-b
A_51_P292116 Ica1,69kDa,ICA69
A_51_P179041 Tead4,TEF-3,TEAD-4,Tefr1a,ETFR-2a,Tcf13r1
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A_51_P201982 Angpt2,Ang2,Agpt2,Ang-2
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A_51_P163876 A730024A03Rik,KIAA1961,MGC100017,mKIAA1961
A_51_P113773 Giyd2,2410170E21Rik,4833422P03Rik
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A_51_P428086 Spnb2,elf1,elf3,SPTB2,SPTBN1,Spnb-2,KIAA4049,r
A_51_P370874 Pkig,PKIgamma

A_51_P113747 Sf3b3,RSE1,SAP130,mKIAA0017,D8Ert633e,1810
A_51_P394814 Sveg1,Polydom,1110021D17Rik,4833413O10Rik,D4
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A_51_P201945 4933411K20Rik,mKIAA1430,1110068E21Rik
A_51_P295215 AW050020,E130207K11
A_51_P276681 1700108E19Rik,4930562N12Rik
A_51_P312885 D7Bwg0611e,1300003M23Rik
A_51_P247799 Casp8,MACH,Mch5,FLICE,Caspase-8
A_51_P492456 Has1,HAS
A_51_P155196 AW539457
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A_51_P251387 Attp
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A_51_P201971 2410195B05Rik
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A_51_P476169 Sfrp5,SARP3
A_51_P388099 Bat1a,Bat1,Bat-1,D6S81Eh,MGC19235,MGC38799,
A_51_P128885 Atp6v1g2,NG38,VAG2,Atp6g2,1500002D01Rik
A_51_P235174 Dnahc1,MDHC7
A_51_P242978 hypothetical protein
A_51_P329949 D430015B01Rik,Precm1
A_51_P173678 8430417G17Rik,Soat
A_51_P135075 2410012M07Rik
A_51_P242967 Piwil2,mili,Piwil1l
A_51_P103465 A230106M20Rik,Gm1431
A_51_P235123 Nfkbie,IKBE
A_51_P135066 2310036D22Rik,5830455K21Rik,6430519M21Rik
A_51_P494822 Stag3,SA-2
A_51_P413687 2810437L13Rik,1810074D02Rik
A_51_P386344 BB128963
A_51_P516741 Tmprss5,spinesin
A_51_P242918 LOC382137
A_51_P181751 4930488E11Rik
A_51_P235117 Zc3hdc11a,mKIAA0663,1110003F06Rik,5730454B0
A_51_P361328 AK005483
A_51_P312846 Fbxo9,9030401P18Rik
A_51_P135037 Preb
A_51_P319180 Krt2-4,Krt-2.4
A_51_P135012 Rhpn2,D7Ert784e,1300002E07Rik
A_51_P279064 BC026370
A_51_P279062 Trem1l1,TLT-1,5430401J17Rik
A_51_P499864 Tubg1,Tubg,MGC8041
A_51_P405496 Mlc1,VL,LVM,MLC,WKL1,mKIAA0027,Kiaa0027-hp
A_51_P413698 Mrpl20,2610008D01Rik,4930425I20Rik
A_51_P386358 Wwp2,AIP2,1300010O06Rik
A_51_P476129 Pwp2h,Pwp2,wdp103,6530411D08Rik
A_51_P242930 Lat2,LAB,NTAL,WSCR5,Wbscr5,Wbscr15
A_51_P235139 Kbtbd5,2310024D23Rik
A_51_P397390 D12Ert551e,CHR2SYT,KIAA1228,2410017M09Rik,
A_51_P408234 Vps16,MGC7352,1810074M16Rik
A_51_P345937 Tbrg4,Cpr2,TB-12,AA408001,mKIAA0948,2310042P
A_51_P516724 Sync,SNIP4,1110057H03Rik
A_51_P186446 BB128963
A_51_P499876 Edg5,H218,LPb2,S1P2,Gpccr13,1100001A16Rik
A_51_P251245 Pkp4
A_51_P342286 4930478K11Rik

A_51_P162162 Inmt,Temt
A_51_P499802 Cul5,VACM1,VACM-1,4921514I20Rik,8430423K24R
A_51_P181722 Rbks,RBSK,5230400M11Rik
A_51_P264995 Mtf2,M96,MGC116639,9230112N11Rik
A_51_P247894 Man1b1,Gm108,MANA-ER,E430019H13Rik
A_51_P515684 1700001L05Rik
A_51_P279050 Kif3b,mKIAA0359
A_51_P386304 Ccnl2,Pcee,SB138,ania-6b,HCLA-150,MGC21593,1;
A_51_P364231 Mad1l1,Mad1
A_51_P251256 Slc12a4,KCC1,RBCKCC1
A_51_P364225 9430025M21Rik,C730009O10Rik
A_51_P499816 0610038K03Rik,Mawbp
A_51_P264984 Lman1,P58,MR60,gp58,F5F8D,MCFD1,ERGIC53,C;
A_51_P264468 Ddx46,MGC31579,MGC116676,2200005K02Rik
A_51_P345902 1110033C18Rik
A_51_P181705 5430405N12Rik
A_51_P189361 1700012B18Rik,Ok138
A_51_P135004 Zfp212,Znf212,mKIAA3011
A_51_P382152 Procr,Ccca,EPCR
A_51_P135092 Kif2c,MCAK,ESTM5,Knsl6,MGC11883,4930402F02F
A_51_P319114 Olfr610,MOR9-2
A_51_P364210 Ms4a3,HTm4,mHTm4
A_51_P394788 Actn4,MGC102374
A_51_P279038 Ppargc1a,Pgc1,PGC-1,Pgco1,Ppargc1,Pgc-1alpha,A
A_51_P251205 Psd,Efa6,Psdl,AI426354,A930015K15,1110007H17F
A_51_P500726 A830073O21Rik
A_51_P500713 Dck
A_51_P159293 BC050789,4931432L23
A_51_P520802 BC020535,MGC19360
A_51_P136729 Idh3g
A_51_P500760 AK044722
A_51_P295192 Nfkbia,Nfkb1
A_51_P322473 2310042D19Rik
A_51_P303371 2410005K17Rik
A_51_P364274 Mitf,bw,mi,wh,vit,vitiligo
A_51_P264914 env,vSAG
A_51_P400884 Itga4,CD49D
A_51_P450100 1110008F13Rik
A_51_P322465 Imp4,D1Wsu40e
A_51_P303308 Hes2,HES-2
A_51_P247853 Chrm3,M3,M3R,Chrm-3
A_51_P264956 Kif1b,D4Mil1e,KIF1Bp130,KIF1Bp204,mKIAA0591,A
A_51_P450140 Cyp1a2,CP12,P450-3
A_51_P492153 Keg1,GS4059,0610008P16Rik
A_51_P486512 Letmd1,Mccr,HCCR1,HCCR-2,MCC-32,1110019O1;
A_51_P142896 Cd59a,Cd59,protectin
A_51_P322420 Srp9,9kDa
A_51_P280906 Jag1,Htu,Ser-1,slalom,Serrate-1,Headturner
A_51_P319141 Stard5,D7Erd152e,2310058G22Rik
A_51_P474459 Socs3,CIS3,Cish3,EF-10,SSI-3,SOCS-3
A_51_P492165 Bank1,BANK,AVIEF,A530094C12Rik
A_51_P295175 Gcap14,1700012P13Rik,2900054P12Rik

A_51_P371710 Tlr7
A_51_P486543 Grm3,Gprc1c,mGluR3,0710001G23Rik
A_51_P280971 Psmc3,TBP-1
A_51_P364250 Itih5,E130106B02,5430408M01Rik
A_51_P143309 Olfr1337,MOR259-10
A_51_P264934 Matn4,matrilin-4
A_51_P450123 Mrpl36
A_51_P388125 Sca10,E46
A_51_P450169 1700014P03Rik,Tsarg
A_51_P400868 Pecam1,Cd31,Pecam,PECAM-1,MGC102160
A_51_P191331 Sipa1,KIAA4074,mKIAA4074
A_51_P337161 Kcnj5,GIRK4,Kir3.4
A_51_P113072 G431001I09Rik
A_51_P227703 1110059H15Rik,Znf650,4833421P10Rik
A_51_P206405 Ptpz1,Ptpz,Ptpz,PTPbeta,PTPzeta,DSD-1-PG,Rptc
A_51_P492141 Senp2,SUMO-1,Smt3ip2,KIAA1331,mKIAA1331,231
A_51_P142861 Casp1,ICE,Il1bc,Caspase-1
A_51_P113026 Cryba1,Cryb,BA3/A1
A_51_P474468 2700082D03Rik,Cgi94
A_51_P367070 Il9,Il-9
A_51_P227718 Rasgrp4
A_51_P474496 Col6a1,Col6a-1
A_51_P400816 Rab11fip4,KIAA1821,mKIAA1821,RAB11-FIP4,A730
A_51_P428372 Cxcl7,TGB,LDGF,MDGF,Pbbp,TGB1,CTAP3,NAP-2,
A_51_P280947 Klrd1,CD94
A_51_P128929 Alas1,ALAS,Alas-1,Alas-h
A_51_P337156 Pou2f3,Skin,Oct11,Otf11,Epoc-1,Otf-11,Skn-1a,Skn-
A_51_P450199 Olfr593,MOR24-2
A_51_P295131 Pax7,Pax-7
A_51_P371750 Marco,Ly112,Scara2
A_51_P125986 Gan,gigaxonin,A330045G18
A_51_P136742 Il1rap,IL-1RAcP,IL-1R AcP
A_51_P113003 2610528M18Rik
A_51_P295118 2810430P21Rik
A_51_P145772 2310020H19Rik
A_51_P116906 Rapgef3,Epac,Epac1,MGC19192,2310016P22Rik,93
A_51_P394745 2510002A14Rik,mKIAA0826,2010313D22Rik,231001
A_51_P206475 2310069N01Rik
A_51_P191375 Serpinb6a,Spi3,Serpinb6,ovalbumin
A_51_P125935 Syt11,1500004A13Rik,3632445O20Rik,5430404N14
A_51_P168695 4930420O11Rik,mKIAA0303
A_51_P337125 Inpp5d,SHIP,145kDa,SHIP-1,s-SHIP
A_51_P258654 Rp1h,Rp1,Orp1,mG145
A_51_P502872 AK033738
A_51_P394735 Arhgef18,D030053O22Rik
A_51_P200262 Gfi1,Pal1,Pal-1
A_51_P206445 2810409K11Rik
A_51_P125965 2210022J03Rik
A_51_P113068 Eif2c3,Ago3,C130014L07Rik
A_51_P227662 Dnahc7,Gm992
A_51_P394764 9030611O19Rik
A_51_P191354 4632408A20Rik

A_51_P337101 4732452J19Rik
A_51_P128913 ENSMUST00000063030
A_51_P477641 Plxna3,SEX,Plxn3,Plxn4,KIAA4078,mKIAA4078
A_51_P206461 Olfr410,MOR255-5
A_51_P337110 4933417O08Rik
A_51_P448677 Pcp2,L7,Pcp-2
A_51_P322493 Hnf4g,NR2A2
A_51_P197043 Xrcc3,4432412E01Rik
A_51_P342327 Ucn3
A_51_P227770 2900006B13Rik
A_51_P145735 Acyp1,1110039O14Rik
A_51_P413539 Nek6,1300007C09Rik
A_51_P128973 ApoA2,Alp-2,Hdl-1,ApoA-2,ApoA-II
A_51_P212543 Sorcs3,6330404A12Rik
A_51_P277241 A_51_P277241
A_51_P322482 Pkhd1,Tigm1
A_51_P227785 7530408C15Rik
A_51_P206489 Zfp312,Fez,Fezl
A_51_P277216 Ms4a7,CFFMA,CD2014,9130422110Rik,A430103C15
A_51_P128945 Rps27a,0610006J14Rik
A_51_P258661 1700129L04Rik
A_51_P173343 6530401N04Rik,4930578F06Rik,B830049N13Rik
A_51_P128987 Akr1b8,FR-1,Fgrp,Fgfrp
A_51_P476618 Slc12a8,CCC9,E330020C02Rik
A_51_P388158 Eif3s7,eIF3p66,66/67kDa,MGC115774
A_51_P462814 Sars2,SerRSmt,D7ErtD353e,2410015F05Rik
A_51_P139437 Ppp1r3a,GM,RG1,RGL
A_51_P184849 Pfkfb2,4930568D07Rik
A_51_P454691 4930430F08Rik,4930571E09Rik,A730088G13Rik,C4
A_51_P408172 1110001D15Rik
A_51_P476601 Ly96,MD2,MD-2,ESOP-1
A_51_P337195 Pipox,Pso,LPIPOX
A_51_P277275 Rit2,Rin,RIBA,Roc2
A_51_P445841 Depdc6,KIAA4200,mKIAA4200,D15ErtD336e,D15Ert
A_51_P173331 Pik3r5,F730038I15Rik
A_51_P168613 B230104P22Rik,MGC90816
A_51_P212509 Akap4,p82,Fsc1
A_51_P328039 Tlx3,Rnx,Tlx112,Hox1112
A_51_P408155 Ngfrap1,Bex3,Nade,DXWsu67e
A_51_P120830 Mmp10
A_51_P486449 Tbc1d14,MGC102624,mKIAA1322,D5ErtD110e,281C
A_51_P462837 AK078248
A_51_P120823 Olfr868,MOR145-4
A_51_P476660 Mllt4,AF6,Gm314,Afadin,I-afadin,S-afadin,5033403D
A_51_P277295 2310001A20Rik
A_51_P235015 2010309G21Rik
A_51_P131466 Cngb3,CNG6,CCNC2,Cngbeta2
A_51_P183261 Aqp8
A_51_P252212 Vamp3,ceb,D130027G05Rik
A_51_P279357 4933406J08Rik
A_51_P218452 Senp6,Susp1,MGC38009,mKIAA0797,2810017C20F
A_51_P103929 Met,HGF,HGFR,Par4,c-Met

A_51_P212592 E430002G05Rik,Ramp,5930437L24
A_51_P184816 4930519N16Rik,MGC27636
A_51_P103912 Mc5r
A_51_P413597 Ranbp17,4932704E15Rik
A_51_P184806 Elmod2,9830169G11Rik
A_51_P327890 Brf1,GTF3B,TAF3C,TAFIII90,TFIIIB90,2510002F24F
A_51_P319289 Sdro,Rdhs,SDR-O,1810054F20Rik
A_51_P476646 Spfh2,MGC27952
A_51_P279363 Ccnc,CG1C
A_51_P279308 Acbd5,MGC90942,1300014E15Rik
A_51_P270274 Smc6l1,SMC6,KIAA4103,MGC96146,mKIAA4103,2E
A_51_P378511 BC018510,MGC6783
A_51_P413348 Vil2,p81,ezrin,cytovillin
A_51_P303296 Olfr1301,MOR248-5
A_51_P476687 Klrb1c,Nk1,Ly59,Nk-1,CD161,Ly-59,Ly55c,NK1.1,Nk
A_51_P516615 Ndufb10,PDSW,22kDa,0610011B04Rik
A_51_P462862 9430015G10Rik
A_51_P378501 A_51_P378501
A_51_P279323 Fkbp3,25kDa,FKBP25
A_51_P462870 Gt4-1,MGC41582
A_51_P378545 Rbpms2,2400008B06Rik
A_51_P413376 Zfp42,Rex1,Rex-1,Zfp-42
A_51_P327828 Ppib,Cphn2,Cphn-2,CyP-20b
A_51_P500044 Vldlr
A_51_P364339 Ndufv1
A_51_P303675 Slc18a3,VAT,VChT
A_51_P378531 A_51_P378531
A_51_P251154 3010001F23Rik
A_51_P327831 Actg-ps1
A_51_P162222 Tsx
A_51_P492298 Aqp2
A_51_P516637 Bmp5,se
A_51_P364302 Msx3
A_51_P498750 ENSMUST00000055905
A_51_P120851 2610041B18Rik
A_51_P322542 5530401J07Rik
A_51_P303640 Pex13,2610008O20Rik
A_51_P474169 5430407P10Rik,MGC36947
A_51_P119633 Frat1
A_51_P218402 E130014H08Rik,A130096K20
A_51_P247928 Clmn,KIAA1188,mKIAA1188,9330188N17Rik
A_51_P371411 Olfr1262,MOR234-1,or-leaf2
A_51_P136620 Olfr921,MOR165-8
A_51_P270235 Thrap1,Trap240,D030023K18
A_51_P295085 Ogn,OG,OIF,SLRR3A,mimecan,mimican,3110079A1
A_51_P436596 Rph3a,2900002P20Rik
A_51_P350748 1500031H04Rik,Sizn2
A_51_P371408 3110005O21Rik
A_51_P303620 Whrn,wi,bM340H1.8,mKIAA1526,1110035G07Rik,C-
A_51_P238094 Cyp4f18,Cypf18,1810054N16Rik
A_51_P142989 Al929863
A_51_P500002 Sema6d,Sema6D-1,Sema6D-2,Sema6D-4,Sema6D-

A_51_P322574 Cpsf4,30kDa,MGC36996
A_51_P136601 Trim7
A_51_P155303 1110032A13Rik
A_51_P270213 Ceacam11,1600015D01Rik
A_51_P378576 B3gnt7,beta-3GnT7,C330001H22Rik
A_51_P343566 Galnt10,Galnt9,GalNAc-T9,ppGaNTase,GalNAc-T10
A_51_P350773 Olfr392,MOR135-9
A_51_P155345 Chmp2a,1500016L11Rik
A_51_P295022 Nedd4,Nedd4a,Nedd4-1,mKIAA0093,E430025J12Ri
A_51_P247960 Dhx15,DBP1,HRH2,Ddx15,mDEAH9
A_51_P247963 Asb9,1700011M07Rik
A_51_P270206 4921537D05Rik,2600001G24Rik
A_51_P337253 4933406M09Rik
A_51_P350752 Cd37,Tspan26
A_51_P155361 Hmbs,Ups,PBGD,Uros1
A_51_P371490 Otof
A_51_P295037 NAP057010-1
A_51_P113527 Eif4a1,Eif4,Ddx2a,BM-010
A_51_P364391 2610528K11Rik,2610200O14Rik
A_51_P309968 Dchs2
A_51_P247976 Olfr705,MOR283-2
A_51_P337246 Raly,Merc
A_51_P142972 Prdm8,PFM5,4930565F05Rik
A_51_P295007 Olfr689,MOR40-3
A_51_P212679 Cwf19I1,2610528C06Rik
A_51_P465871 Statip1,Elp2,StIP1
A_51_P446978 Cfdp1,Bcnt,Cfdp,cp27,Bucentaur
A_51_P337210 Lrrc4,MBAG1,Nag14
A_51_P337230 Galnt14,0610033M06Rik
A_51_P142904 Paics,AIRC,PAIS,ADE2H1,2610511I09Rik
A_51_P491595 AW549877
A_51_P388661 Msx2,Hox8,Hox-8,Hox8.1
A_51_P136650 Bat4,G5,Bat-4,D17H6S54E
A_51_P394612 Tiam1
A_51_P413398 Zfpn1a2,Helios,Znfn1a2
A_51_P142923 Chka,Chk,ChoK,EtnK-alpha
A_51_P434127 Twsg1,Tsg,Twg,D17Ert403e,9030422N06Rik
A_51_P191046 2410007B07Rik
A_51_P277139 4933436E20Rik
A_51_P267593 1700061G19Rik,1700026H02
A_51_P146407 D11Wsu99e
A_51_P465809 Slc30a9,HUEL,2310024J23Rik
A_51_P388607 Mad
A_51_P191077 Pik3c2g
A_51_P369862 Aadacl1,CPO-BP,B230106I24Rik
A_51_P371485 C430003P19Rik
A_51_P169415 Parvb,D15Gsk1
A_51_P446934 4930511M11Rik,4930403J02Rik,4930500J03Rik
A_51_P227463 Al449175,mszf62,C530032E20
A_51_P394631 Rasd2,Rhes,TEM2,TEM-2,4930526B11Rik
A_51_P434101 Herpud1,SUP,Herp
A_51_P277116 Rabl5,3110017O03Rik

A_51_P388628 Mist1,Bhlhb8,1810009C13Rik
A_51_P446927 Vamp2,Syb2,Syb-2
A_51_P448545 2810406K13Rik
A_51_P369803 Psmb9,Lmp2,Lmp-2
A_51_P405659 C330003B14Rik
A_51_P462751 Rap1b,2810443E11Rik
A_51_P240421 Pcdhb14,PcdhbN,Pcdhb17,2210006M07Rik
A_51_P136699 AA408451
A_51_P270286 Dncl1c1,LIC-1,MGC32416,1110053F02Rik
A_51_P227445 2010007H06Rik
A_51_P394676 Mef2d,MGC31718
A_51_P395111 Nme3,Ndk3,DR-nm23,Nm23-DR,Nm23-M3,1810009
A_51_P413461 Parg
A_51_P337290 Rps19,MGC107694
A_51_P212271 Tsga14,1700017E11Rik,2810431D15Rik
A_51_P288978 9430002A10Rik
A_51_P405601 V1rg11
A_51_P405606 Ndr1,RTP,DRG1,NMSL,Ndr1,TDD5,CAP43,CMT4C
A_51_P173071 Phf3,mKIAA0244,2310061N19Rik
A_51_P227777 Top2b,Top-2,D230016L12Rik
A_51_P369823 Slc7a12,XAT1,Asc-2
A_51_P434171 Myohd1,1110055A02Rik
A_51_P258322 Al894139
A_51_P502906 Ang4,Rnase5d
A_51_P474188 AW494914,MGC77974
A_51_P288916 8430438D04Rik,MGC116613,D330034A10Rik
A_51_P279284 BC051142
A_51_P168720 Bnc2,5031434M05Rik
A_51_P184949 F12
A_51_P357838 BC003965,MGC7403
A_51_P277153 Rai16,G430067P06Rik
A_51_P413419 Nxt1,1110001N02Rik
A_51_P288906 Rsn,CYLN1,Clip50,CLIP170,CLIP-170,KIAA4046,mf
A_51_P476357 2810482I07Rik
A_51_P235345 9830001H06Rik
A_51_P288903 Aldoa-ps1,Aldo1-ps1,4933425L11Rik
A_51_P278184 Gemin5,C330013N08
A_51_P491504 Aldh5a1,Ahd1,Ahd-1,Ssdh1,6330403E24Rik
A_51_P173043 Egr2,Egr-2,Zfp-6,Krox20,NGF1-B,Zfp-25,Krox-20
A_51_P235311 Rpl13a,MGC107571,Tstap198-7,tum-antigen,181002
A_51_P220374 Nmur2,Nmu2r
A_51_P184969 2900002H16Rik,FLJ39378,6330559I19Rik
A_51_P212690 Olfr60,IH6,MOR253-6
A_51_P434198 Anapc4,APC4,D5Ertd249e,2610306D21Rik
A_51_P388691 Bbx,5730403O13Rik
A_51_P388696 Ndufs4,C1-18k
A_51_P491545 Olfr979,MOR223-1
A_51_P515828 Fndc3b,Fad104,KIAA4164,mKIAA4164,1600019O04
A_51_P369897 Zfp410,Apa1,MGC38535,D12Ertd748e
A_51_P388683 Dmd,mdx,pke,Dp427,DXSmh7,DXSmh9
A_51_P334504 Ssbp1,MtSSB,mtDBP,2810480P10Rik,G630031O20
A_51_P498403 Tnrc5,CAG4A,ERDA5,1600025D17Rik,2410050O22

A_51_P408946 Ccne1
A_51_P212682 Mcm10,C79164,2410041F14Rik,C330019M07Rik
A_51_P189575 Folh1,mopsm
A_51_P408974 Olfr1230,MOR237-1
A_51_P334545 Rp1hl1,Rp1l1,MGC38744
A_51_P173022 Nsmce1,2510027N19Rik
A_51_P166781 Cnksr2,Cnk2,Ksr2,mKIAA0902,C030004A01
A_51_P405693 Supt6h,SPT6,mKIAA0162,5131400N11Rik
A_51_P184936 Zbp1,Dlm1,mZaDLM,2010010H03Rik
A_51_P106634 H2-M9
A_51_P408932 Ssbp2,SSDP2,Hspc116,1500004K09Rik,2310079I02
A_51_P443872 D11Erttd730e,MGC31026,D3Bwg0878e
A_51_P324742 1700013G24Rik
A_51_P334570 Uba52,D8Erttd21e,MGC107645
A_51_P120948 Cul4b,2700050M05Rik
A_51_P382331 4632413K17Rik,Os-9,AU022351,1300007E20
A_51_P251069 Pter,Mpr56-1
A_51_P445912 2310047K21Rik
A_51_P184910 Phpt1,Php14,1700008C22Rik
A_51_P120917 Kcnmb2,MGC57945,2700049B16Rik,3110031N04Ri
A_51_P408910 Cacng2,stg,wag,waggler,stargazer,stargazin,B23010
A_51_P334563 2900064B16Rik
A_51_P184928 Ifitm7,Mil4,4933438K12Rik
A_51_P462790 1700106N22Rik
A_51_P174314 Robo1,DUTT1
A_51_P313483 Dyrk1a,mmb,Dyrk,Mnbh,D16Erttd272e,D16Erttd493e,
A_51_P443857 Pitpnc1,RDGBB,Dnr411,RDGBB1,rdgB-beta,111002
A_51_P498442 Slc34a1,Npt2,Slc17a2
A_51_P173086 Eif3s6ip,PAF67,HSP-66Y,MGC37328,0610011H21R
A_51_P279232 2010308M01Rik,MGC6915
A_51_P516500 LOC331524,A630026F04
A_51_P303180 9130005N14Rik,1190001N04Rik
A_51_P445932 1110007A13Rik,MGC36596
A_51_P498475 Calr4,4933403L16Rik
A_51_P500104 5430425J12Rik
A_51_P378450 Rfc4,A1,RFC37
A_51_P498483 Frmd3,4.1O,P410,EPB41L4O,9430066I12Rik
A_51_P251032 Sdccag10,NY-CO-10,3110009E13Rik
A_51_P394585 AK032028
A_51_P413275 BC027092,KIAA1052,MGC38792,mKIAA1052,D030
A_51_P264634 C230082I21Rik
A_51_P500152 AI450540,mKIAA1600
A_51_P251008 5430411K18Rik,mKIAA1632,4732475F16
A_51_P169793 LOC380753
A_51_P450373 2310068J16Rik
A_51_P450376 Mmp24,MT5-MMP
A_51_P191586 Arpc1a,41kDa,Sid32,Sid329,0610010H08Rik,111000
A_51_P371174 Bag3,Bis
A_51_P364438 Cntn3,Pang
A_51_P465988 Ganc,FLJ00088,mFLJ00088,9330160A12,5830445C
A_51_P319732 Mrps31,Imogen38,Imogen44,1500002D03Rik
A_51_P292008 Gpx3,GPx

A_51_P163953 Nsg2,8.5
A_51_P364421 Sybl1,VAMP-7,TI-VAMP
A_51_P174350 A_51_P174350
A_51_P184991 4930511H01Rik,4930415O10Rik
A_51_P258493 Per3,mPer3,2810049O06Rik
A_51_P206616 Cdc7,Cdc7l1,muCdc7,MGC91067
A_51_P303528 4932415D10Rik,MGC19022
A_51_P174396 Pdc8,Hq,AIF,mAIF,MGC5706
A_51_P500135 Ndr4,Ndr4,SMAP-8,MGC7067,Ndr1-rs,D8Bwg1337
A_51_P371119 Cops4,D5Erd774e
A_51_P163942 Nos2,iNOS,Nos-2,Nos2a,i-NOS,NOS-II
A_51_P174384 Slc35b2,Slc35b1,1110003M08Rik
A_51_P489488 Usmg4,D3Bwg1078e
A_51_P206635 2610207F23Rik,4931421F20Rik
A_51_P450365 Txnrd3,TR2,Tgr
A_51_P408989 2810055F11Rik
A_51_P292057 Tbl1xr1,C21,DC42,Ira1,TBLR1,8030499H02Rik,A630
A_51_P371162 Eif3s9,PRT1,D5Wsu45e,EIF3-ETA,EIF3-P110,EIF3-
A_51_P113672 Garnl1,GR1PE,Tulip1,mKIAA0884,2310003F20Rik,49
A_51_P227564 2600001J17Rik,AA409762,1700018I02Rik,2810049E
A_51_P206665 Rpl37,3110005M08Rik
A_51_P405766 Dymk,Tmk,CDC8,TMPK,TYPK,mtmk,D10Erd203e
A_51_P163901 Olfr1219,MOR233-6
A_51_P163906 Tln2,AL118320,MGC100340,mKIAA0320,5730421P
A_51_P395281 4732495G21Rik
A_51_P155085 B930096L08Rik,mKIAA1277,C130031G22
A_51_P191572 Olfr411,MOR255-3
A_51_P371120 Sec23b
A_51_P227502 Mfap2,Magp,Magp1
A_51_P163967 NAP057141-1
A_51_P175311 Gpbar1,BG37,GPCR,TGR5,M-BAR,GPR131
A_51_P236991 1700001P01Rik
A_51_P394524 Rpl11,2010203J19Rik
A_51_P391926 Ubx1,Ubx2,1200008L11Rik,2210415J11Rik
A_51_P236945 5830457H20Rik
A_51_P200044 Lsm7,0910001B06Rik,1110033F18Rik
A_51_P394574 Daam1
A_51_P251092 LOC270589,ORF 1
A_51_P206655 Lsm1,CASM,2810025O06Rik
A_51_P191519 Stard10,PCTP2,Pctpl,CGI-52,PC-TP2,TISP-81,NY-C
A_51_P200068 Arf3,5430400P17Rik
A_51_P166886 Saa2,Saa1,Saa-2,amyloid A
A_51_P394515 Tkt,p68
A_51_P450394 AV080718
A_51_P182490 C630028L02Rik
A_51_P413359 Sfn5
A_51_P391904 Apbb1ip,Prp48,9930118P07Rik
A_51_P454078 Pte1,PTE-2
A_51_P127334 Zfp91,Pzf,9130014I08Rik,A530054C17Rik
A_51_P394552 Prss3,Tb,MTG,TRY4,Try3,PRSS\$
A_51_P394558 3110041P15Rik
A_51_P136181 AK047573

A_51_P258409 Hey1,HRT1,Herp2,hesr-1
A_51_P388724 Nhlh1,Hen1,Nscl,Tal2
A_51_P413302 Tpo
A_51_P235274 2900045O20Rik
A_51_P434240 Mrpl11,2410001P07Rik
A_51_P277075 Speer3,SPEER-3,4933405P08Rik
A_51_P235244 Dnmbp,TUBA,2410003L07Rik,2410003M15Rik
A_51_P212741 2810451E09Rik,MGC116602
A_51_P493879 Stoml3,sro,SLP3,Epb7.2l
A_51_P413366 Atrx,XH2,Xnp,ATR2,MRXS3,Rad54,Hp1bp2,RAD54l
A_51_P212754 Tgfb1,68kDa,big-h3,Beta-ig
A_51_P434227 Olfr700,MOR283-4
A_51_P258465 BC037034,MGC47434
A_51_P484842 Asgr2,Asgr,ASGPR2,Asgr-2
A_51_P212713 Lime1,LIME,2810038K19Rik
A_51_P484859 Olfr340,MOR136-1
A_51_P476018 Sox7
A_51_P491426 Cst13,Cymg1,Mtcg1,1700006C19Rik
A_51_P110108 V1rc8
A_51_P334419 Musk,MDK4,Nsk1,Nsk2,Nsk3
A_51_P484869 Gamt,Spintz1
A_51_P361858 1010001A17Rik
A_51_P476008 Abcf1,Abc50,GCN20,D17Wsu166e
A_51_P313157 Arhgef5,Tim1
A_51_P166849 AV166465
A_51_P443920 Al848765
A_51_P491437 Btbd9,4930402L05,1700023F20Rik
A_51_P385874 Pou4f1,Brn3,Brn-3,Brn3a,Brn3.0,Brn-3.0
A_51_P518462 5730466H23Rik
A_51_P212700 Vps13c,C230055H22Rik
A_51_P459100 Sil
A_51_P145948 Neto1,Btcl1,C130005O10Rik
A_51_P459108 Insl6,RIF1
A_51_P110189 Ttyh2,1110001A03Rik
A_51_P127435 Ptch1,Ptc,mes,Ptc1,Ptch,A230106A15Rik
A_51_P166873 2310042N02Rik,2310074C17Rik
A_51_P304296 Tpcn1,Tpc1,5730403B01Rik
A_51_P361875 Rpl36
A_51_P278950 Bms1l,mKIAA0187
A_51_P155152 Ank,mKIAA1581,D15ErtD221e
A_51_P209291 Gtdc1,E330008O22Rik
A_51_P385849 4732474A20Rik
A_51_P518470 AK030130
A_51_P110165 4930423F13Rik
A_51_P453657 Syt8
A_51_P498152 Sat2,SSAT2,SSAT-2,MGC74376,2610016A03Rik
A_51_P334449 Olfr50,ID3,MOR136-6
A_51_P127412 Kif15,HKLP2,Knsl7,D330038N01,3110023M17Rik,39
A_51_P209280 1700093E07Rik
A_51_P106745 Irak1,IRAK,Plpk,mPLK,IRAK-1,Il1rak
A_51_P516456 Acp2,LAP,Acp-2
A_51_P459128 Serpinb9e,NK26,Spi14,ovalbumin

A_51_P443946 9030607L20Rik
A_51_P245368 Abcb1b,mdr,Mdr1,Pgy1,Abcb1,Mdr1b,Pgy-1
A_51_P127456 BC024868,Gm158
A_51_P476091 HnrpdI,JKTBP,hnRNP-DL,D5Wsu145e,D5Ertd650e
A_51_P303424 Itgax,N418,Cd11c
A_51_P385812 Il12b,p40,Il-12b,Il12p40,Il-12p40
A_51_P334459 F730046H10Rik
A_51_P443958 Al838745
A_51_P423880 Smarcd3,BAF60C,1500001J14Rik
A_51_P127469 Hagh,Glo2,Glo-2,Rsp29
A_51_P436736 Tgm5,TGx,TGMX,2310007C07Rik
A_51_P364560 D330050I16Rik
A_51_P498132 Hsf2
A_51_P127475 9130217G22Rik
A_51_P443976 Ptprr,Gmcp1,PTP-SL,PTPBR7,mPTP213
A_51_P319031 Cox7a2,COX7AL,Cox7a3,CoxVIIa-L
A_51_P212782 Il1b,Il-1b,IL-1beta
A_51_P364550 4930480E11Rik
A_51_P319070 0610039N19Rik,MMT-7,RetSat
A_51_P378777 1200013P24Rik
A_51_P315931 Slco2a1,Pgt,mPgt,Slc21a2,2310021C19Rik
A_51_P209211 1700020N15Rik
A_51_P155556 Fbxw9,Fbw9,1110017H11Rik
A_51_P174215 Dhrs2,SDR family,5430405K24Rik
A_51_P319022 Cxcr3,Cd183,Cmkar3
A_51_P235297 1110064P04Rik,FLJ36626
A_51_P106752 Rnmt,mKIAA0398,2610002P10Rik
A_51_P408410 Ppqb,PPCA
A_51_P209200 Tce4
A_51_P500226 Nkiras2,KBRAS2,2410003M04Rik,4930527H08Rik
A_51_P385892 4833405L16Rik,Idi2,IPPI2
A_51_P364516 Tub,rd5
A_51_P174264 4932409I22Rik,Gm238,MGC86088
A_51_P378754 Zfp316,Emzf1,MZF-3
A_51_P450007 5730585A16Rik
A_51_P520660 Tomm70a,28185,D16lum22,D16lum22e,mKIAA071C
A_51_P148602 Il8rb,CD128,CXCR2,IL8RA,CDw128,Cmkar2,Gpcr16
A_51_P209234 Med12I,TRALPUSH,A130035F20,A630079M02
A_51_P483877 Crygd,Aey4,Lop12,Cryg-1,DGcry-1
A_51_P492078 AB041661
A_51_P155574 Pura,CAGER-1,ssCRE-BP,Pur-alpha
A_51_P384831 Syt12
A_51_P450039 Olfr395,MOR135-10
A_51_P450033 Cdc2a,CDK1,Cdc2,p34<CDC2>
A_51_P408430 Col24a1,MGC107332,5430404K19Rik
A_51_P209225 Tada3I,ADA3,1110004B19Rik
A_51_P357622 Olfr638,MOR5-1
A_51_P364578 9930021J03Rik,KIAA2026,mKIAA2026
A_51_P106799 Pparg,Nr1c3,PPAR-gamma,PPAR-gamma2
A_51_P500200 Inpp4a,107kDa,9630012D15
A_51_P371675 2400002F02Rik,MGC60796,2010007L18Rik
A_51_P155501 Alg3,MGC36684,D16Ertd36e

A_51_P136005 NAP057219-1
A_51_P206518 Nagk,Gnk
A_51_P420600 Prss35,6030424L22Rik
A_51_P423869 4632433K11Rik
A_51_P278994 Swap70,70kDa
A_51_P400957 Ankmy1,ZMYND13,4930483110Rik
A_51_P209258 AU022855
A_51_P261405 C430014M02Rik,mKIAA0674
A_51_P450052 Smarca2,brm,Snf2l2,brahma,SNF2alpha,2610209L1
A_51_P423859 Capn3,p94,Lp82,Capa3,Capa-3
A_51_P450057 Cit,CRIK,Cit-k,CRIK-SK,citron-N
A_51_P209261 Sqrdl,0610039J17Rik,4930557M22Rik
A_51_P292516 Fbxl3,FBK,Fbl3a,Fbxl3a
A_51_P155522 Psmb4
A_51_P420627 Mrpl40,Nlvcf
A_51_P483839 Coil,Cln80,MGC37472,p80-coilin
A_51_P500215 2310016F22Rik
A_51_P261428 Pdcd4,TIS,MA-3,D19Ucla1
A_51_P174275 Colec11,1010001H16Rik
A_51_P408471 Cdipt,Pis,Pis1,D7Bwg0575e,9530042F15Rik
A_51_P206551 Sult1b1
A_51_P337065 4930402E16Rik,mKIAA1990
A_51_P136014 Tfdp2,DP3,DP-3,A330080J22Rik
A_51_P200339 B430218L07Rik,1190007F10Rik
A_51_P261443 Tcf14,Mlx
A_51_P420655 2700029E10Rik,Reep4
A_51_P136028 Mamdc1,Mdga2,6720489L24Rik,9330209L04Rik
A_51_P227275 Csnk,Csn3,CSN10
A_51_P206573 Cacna1b,Cav2.2,Cchn1a,alpha(1B)
A_51_P400909 Ube2i,UBC9,Ubce9,Mmubc9,Ubce2i,5830467E05Ril
A_51_P261470 Ndufv2,2900010C23Rik
A_51_P420666 Olfr24,MTPCR51,MOR132-1
A_51_P280200 Usp10,UBPO,Uchrp,mKIAA0190,2610014N07Rik
A_51_P388478 Efnb1,Epl2,EFL-3,Elk-L,Eplg2,Lerk2,Stra1,Cek5-L,LE
A_51_P400932 4732499D12Rik
A_51_P388471 1700029M23Rik,MGC58375
A_51_P337039 AK027988
A_51_P121652 Aspscr1,TUG,ASPC,ASPL,ASPS,RCC17,ASPCR1,1
A_51_P420684 Syn1,Syn-1,Synapsin Ia,Synapsin Ib
A_51_P394441 Olfr67,3[b]1,3'beta1,MOR31-1
A_51_P394446 D14Ert171e,CAST,6430531D06,CAST1/ERC2
A_51_P337020 Senp7,mKIAA1707,2410152H17Rik,2810413I22Rik,;
A_51_P277745 Abcc2,Mrp2,cMRP,Abc30,Cmoat
A_51_P227202 C030014I23Rik
A_51_P316935 8430408G22Rik,Fseg,MGC6835
A_51_P371695 C130002K18Rik
A_51_P155582 Rad51ap1,RAB22,2510006L10Rik
A_51_P206585 Runx1,AML1,Cbfa2,Pebp2a2,Pebpa2b
A_51_P388412 Daf1,Daf,CD55,Daf-GPI,GPI-DAF
A_51_P212473 B130008E12Rik,9130014E20Rik
A_51_P277767 Cstf1,1700057K18Rik
A_51_P275808 Trim59,Mrf1,TSBF1,2310035M22Rik,2700022F13Ril

A_51_P388432 Anp32b,PAL31,Ssp29,PHAPI2a,MGC103080,24100
A_51_P227222 Adamts2,PCINP,hPCPNI,ADAM-TS2,ADAMTS-3,KI/
A_51_P394471 Tcfe2a,A1,E12,E2A,E47,ME2,ALF2,Pan1,Pan2,TCF
A_51_P191262 2300003C06Rik,JP-45,2310032K21Rik
A_51_P206563 2210018M11Rik,MGC101920,2310016L09Rik
A_51_P212457 Olfr551,MOR29-1
A_51_P277756 Tas1r2,TR2,T1r2,Gpr71
A_51_P212440 Prnpip1,PINT1
A_51_P240269 BC031748,MGC19245
A_51_P212419 D630045E04Rik,MUF1,MGC38941,D730026A16Rik
A_51_P153343 2410039E07Rik,K17n,Ka22
A_51_P277718 Cenpc1,Cenpc
A_51_P200388 Htr2b,5-HT2B
A_51_P413255 Zfp654,1600021C16Rik,1810008K20Rik
A_51_P434713 1700019O17Rik
A_51_P413251 6430704N06
A_51_P166948 BC053460
A_51_P349611 Trpm1,Mlsn1,4732499L03Rik
A_51_P212801 Ube2a,HR6A,HHR6A,Mhr6a
A_51_P173212 Osbp12,Orp2,ORP-2,KIAA0772,MGC28451,mKIAA07
A_51_P491710 Wars2,5730427B17Rik,9430020O07Rik
A_51_P459091 A130042E20Rik,ORF57,C21orf57
A_51_P413216 ENSMUST00000068800
A_51_P303332 1500032H18Rik
A_51_P462918 Ehhadh,HD,LBP,MFP,LBFP,PBFE,L-PBE,1300002P
A_51_P182503 C030036P15Rik
A_51_P173224 Kcnh8,ELK,ELK1,ELK3,Kv12.1,C130090D05Rik
A_51_P327996 Ccl22,MDC,DCBCK,ABCD-1,Scya22
A_51_P388490 Rorb,RZRB,Nr1f2,MGC38728,RZR-beta
A_51_P491742 Uhrf1,Np95,ICBP90,RNF106
A_51_P388498 Olfr1086,MOR179-2
A_51_P498631 Dfna5h,DFNA5,2310037D07Rik,4932441K13Rik
A_51_P491777 Olfr59,IH3,MOR133-3P
A_51_P413238 Pbx1,Pbx-1,D230003C07Rik
A_51_P212420 Lama4
A_51_P337089 2810418N01Rik,mKIAA0186
A_51_P334739 Cdon,CDO,Cd0,Orcam
A_51_P396364 Cdk5rap2,MGC38528,mKIAA1633,2900018K03Rik
A_51_P166941 Irak3,IRAK-M,4833428C18Rik
A_51_P462978 Mpp2,Dlg2,Dlgh2,Pals4,D11Bwg0652e
A_51_P103617 A430090E18Rik
A_51_P304879 Ndfip1,N4wbp5,0610010M22Rik
A_51_P110081 Dmrta2,Dmrt5
A_51_P278353 1700049J03Rik
A_51_P212840 AA407452
A_51_P110088 Slc9a7,NHE7,A530087D17Rik
A_51_P444401 2900010J23Rik,1500019F05Rik
A_51_P277795 2810474O19Rik,KIAA1551,mKIAA1551,6720435I21I
A_51_P486554 Taar1,Tar1,Trar1
A_51_P252988 9130012O13Rik
A_51_P378699 4933406N12Rik
A_51_P459012 Zswim2,1700025P14Rik,4933437F18Rik

A_51_P349673 Rab37,B230331O03Rik
A_51_P260051 Arf1
A_51_P498670 Phr1,Pam,C130061D10Rik
A_51_P327983 4833427G06Rik,MGC58631
A_51_P462972 4932432K03Rik
A_51_P484880 Bcl2l11,Bim,Bod
A_51_P334785 Al447904,4930422C14
A_51_P303397 Pep4,Pep-4
A_51_P106474 3110024A21Rik,ZNF593,E130106C14Rik
A_51_P319572 Rusc2,mKIAA0375
A_51_P423981 Ctss
A_51_P462963 Nr2c2,Tr4,TAK1,KIAA4145,mKIAA4145
A_51_P444447 Cebpd
A_51_P378602 Siah1b,Sinh1b
A_51_P327963 Sfrs8,SWAP,1190005N23Rik,6330437E22Rik
A_51_P209327 Apln,Apel,6030430G11Rik
A_51_P106455 Nr0b1,AHX,Ahc,Ahch,Dax1,DAX-1
A_51_P319551 AW124694
A_51_P498640 Pdxk,2310036D04Rik
A_51_P520718 Ptger3,EP3,Pgerep3,Ptgerep3
A_51_P343252 Cd151,SFA-1,PETA-3,Tspan24
A_51_P444468 2610206B13Rik,MGC35679,2810449K13Rik
A_51_P155234 Bnip3,Nip3
A_51_P174133 4933403G17Rik,Lipe
A_51_P319562 Ank2,Ank-2,Ankyrin-2,Ankyrin-B,ankyrin B,ankyrin>B
A_51_P378667 BC021790,MGC28622
A_51_P327920 AU040958
A_51_P327904 C030002N13Rik
A_51_P450573 Tgfr2,DNIIR,RIIDN,TbetaRII,TbetaR-II,1110020H15
A_51_P303739 Al173486
A_51_P459070 2010301N04Rik
A_51_P270997 Igfbpl1,IGFBPL,2810011G06Rik,2810453O06Rik
A_51_P244213 Hapln3,Lpr3,4930554N11Rik
A_51_P350403 Sec8l1,Sec8,EXOC4
A_51_P209319 Slc35b1,Ugalt2
A_51_P498691 Apip,APIP2,CGI-29,Mmrp19
A_51_P303725 Tmem38a,1110001E17Rik
A_51_P450518 2700029M09Rik
A_51_P471258 TIm
A_51_P394394 Tspan2,6330415F13Rik,B230119D02Rik
A_51_P294979 Mt1,MT-I,Mt-1
A_51_P371355 4921520L01Rik,GC-LRR,Nalp14l,Nalp-iota
A_51_P483922 Tm9sf4,mKIAA0255,B930079E06
A_51_P209366 Mgea5,Hy5,mKIAA0679,2810009A20Rik,4833427O0
A_51_P294970 March6,3830408G03,F830029L24Rik
A_51_P498684 Sdccag8,Cccap,2700048G21Rik,5730470G24Rik
A_51_P343218 Camk2a,CaMKII,mKIAA0968
A_51_P174143 Pip,GP17,mSMGP,GCDFF-15
A_51_P423963 Tas1r3,Sac,T1r3
A_51_P394383 2210401K01Rik
A_51_P450561 Tef,2310028D20Rik
A_51_P209334 0610012D17Rik,2410011K15Rik

A_51_P106488 Apeg1,BPEG,SPEG,SPEGbeta,SPEGalpha,mKIAA1
A_51_P500356 Tbc1d21,1700095K08Rik
A_51_P292230 2410129H14Rik
A_51_P155257 B4galt1,GalT,Ggtb,Ggtb2,B-1,4-GalT
A_51_P261544 Pcdh8,Papc,1700080P15Rik
A_51_P483908 Dctn1,p150,Glued
A_51_P350472 Cdkl5,Stk9
A_51_P123134 BC004701,MGC7766,D330021P09Rik
A_51_P450508 Olfr69,3'[b]3,3'beta3,MOR22-2
A_51_P218556 Slc35f4,4930550L21Rik
A_51_P261517 Tyrobp,Ly83,DAP12,KARAP
A_51_P191791 Pcdhgb4
A_51_P450505 ENSMUST00000059315
A_51_P471288 Adam10,kuz,MADM,kuzbanian,1700031C13Rik
A_51_P303728 Zfp277,NIRF4,2410017E24Rik
A_51_P174158 Irs3
A_51_P136355 Gng11,0610037B21Rik
A_51_P174192 Cenpe,Kif10,312kDa,CENP-E,C530022J18
A_51_P270960 3222402P14Rik,MGC29057,A730042E07
A_51_P394354 5730469M10Rik
A_51_P486479 Rab5c,Rabl
A_51_P261560 1700061J05Rik
A_51_P371311 Slc1a4,SATT,ASCT1
A_51_P350453 Pdk4
A_51_P136303 Cyp4f15,Cyp4f-15
A_51_P270979 Tas2r119,T2r19,mGR19,mt2r19,Tas2r19
A_51_P450527 Tagln,Sm22a
A_51_P209372 Sc4mol,DESP4,ERG25,1500001G16Rik
A_51_P489679 Lrpb7,B7,4921537K05Rik
A_51_P113430 Uaca,nucling,2700059D02Rik
A_51_P500313 Abcf2,E430001O06,D13Ertd614e,0710005O05Rik
A_51_P136337 Galm,A530057M15Rik
A_51_P270939 Gosr2,Gs27,SNARE,membrin,2310032N09Rik
A_51_P434036 A530088I07Rik
A_51_P206037 Peg3,Pw1,End4,Gcap4,Zfp102
A_51_P261585 Peo1,PEO,Twinl,MGC41750,D19Ertd626e
A_51_P270904 9930023K05Rik,MGC99964
A_51_P114462 Ccl17,TARC,ABCD-2,Scya17,Scya17l
A_51_P369971 5730455O13Rik,Fra10ac1
A_51_P191743 Pcdhb16,Pcdhb8,PcdhbP
A_51_P405985 A530089I17Rik,Sac3
A_51_P155294 Ppp1r16b,Wdt4,TIMAP,ANKRD4,C130078N17Rik
A_51_P364694 BB206048
A_51_P303784 Olfr218,MOR267-3,Olfr218-ps1
A_51_P191700 Col18a1,endostatin
A_51_P394339 Eif2b1,26kDa,EIF2B,EIF2BA,MGC6458,D5Ertd406e
A_51_P212993 Wdr8,Dd57,2610044M17Rik,5330425N03Rik
A_51_P304065 proline-rich protein 9-1
A_51_P200633 TC965491
A_51_P394324 Fndc3a,Fndc3,D14Ertd453e,1700094E19Rik,F73001
A_51_P434017 Spon2,Mindin,M-spondin,2310045I24Rik
A_51_P322814 1700054O13Rik

A_51_P303791 9530076L18
A_51_P113403 Slc26a11,F630021I08Rik
A_51_P518621 Hist1h3a
A_51_P491627 XM_284375
A_51_P388517 Ldb2,Ldb3,CLIM1,CLP-36,CLIM-1a,CLIM-1b
A_51_P413147 Ngfg,mGk-3,Klk1b3
A_51_P309234 1700110N18Rik
A_51_P477250 Abca6,6330565N06Rik
A_51_P335801 Calb1,CB,Calb,Calb-1,Brain-2
A_51_P493682 2810401C22Rik
A_51_P227332 Rpl38,0610025G13Rik
A_51_P413177 Zdhhc8,MGC7847,ZDHHCL1,MGC103030,D16H22E
A_51_P369906 Thedc1,E230009B14Rik
A_51_P212980 1700030K01Rik,4930599C08Rik
A_51_P277629 Zfp81,Zfp78,KRAB13,Hszfp36,AA409460,AA409461
A_51_P369998 Sntg2,9530013L23,2210008K22Rik
A_51_P434041 C030019F02Rik,MGC102050
A_51_P128174 Epha5,bsk,Cek7,Ehk1,Els1,Hek7,Rek7
A_51_P491635 Ly6g6e,G6e,2310011I02Rik
A_51_P313320 Cd6
A_51_P413130 Myl4,GT1,ALC1,AMLC,Myla,MLC1a
A_51_P313337 2700089E24Rik
A_51_P227386 En1,En-1,Mo-en.1
A_51_P110323 Gna14
A_51_P413122 2610019A05Rik,6030402H20Rik
A_51_P476261 Zfp120,F80,MZF31
A_51_P294994 Mxi1,Mad2
A_51_P169527 Mvk,MK,2310010A05Rik
A_51_P434059 Gja6,Cnx33,Gja-6,A530015O12Rik
A_51_P110301 C3,ASP,Plp
A_51_P495311 Cd209e,SIGNR4,mSIGNR4
A_51_P110371 Wwox,WOX1,5330426P09Rik,9030416C10Rik
A_51_P277683 Ms4a1,Cd20,Ly-44,Ms4a2
A_51_P512744 1110021H02Rik,Ufc1,ESTM29
A_51_P491648 Vgll2,VITO-1,C130057C21Rik
A_51_P385684 Hoxc12,Hox-3.8
A_51_P304988 Gm1549
A_51_P227392 Rhou,Arhu,G28K,WRCH1,mG28K,WRCH-1,CDC42L
A_51_P491610 E030042N06Rik
A_51_P405912 Lmcd1,dyxin,MGC29184
A_51_P184484 Mmp13,Clg,Mmp1,MMP-13
A_51_P491667 Derl3,IZP6,derlin-3,1810006I20Rik,1810063P04Rik
A_51_P220055 Ccbl1,Gtk,Katl,2010009K05Rik
A_51_P127615 Slbp
A_51_P484832 Ppm1g,Fin13
A_51_P220026 Gtl4
A_51_P334619 Zfp1,Fnp-1,Zfp-1,mkr-1
A_51_P512765 2610027L16Rik
A_51_P476209 Fscn3
A_51_P110341 Scgb3a1,HIN-1,Pnsp2,UGRP2,LuLeu2,UGRP2A,Utg
A_51_P110381 Cd207,Langerin
A_51_P212977 AA960436

A_51_P106538 Htra3,Prsp,Tasp,2210021K23Rik,9530081K03Rik
A_51_P493649 Sult1e1,Ste
A_51_P220049 Zfp119,Mzf13
A_51_P405970 Trrap
A_51_P239203 Mapk13,SAPK4,Serk4
A_51_P304977 Gpr115,MGC107333,4632435A09Rik
A_51_P498340 Prr3,CAT56,4930540G07Rik
A_51_P304971 BC022651,MGC31268,A630041N19
A_51_P512783 2410005O16Rik,5033415E11Rik,5730501K14Rik,64
A_51_P127607 Ppp2r5e,4633401M22Rik
A_51_P334672 Sv2c,4930527L09Rik
A_51_P459320 Gkap1,42kDa,Gkap42,4933400B15Rik
A_51_P378173 1110012L19Rik
A_51_P385639 Gjb5,Gjb-5,Cx31.1,Cnx31.1
A_51_P471126 Cyp2c65,2210009K14Rik
A_51_P459368 Appbp2,PAT1,mKIAA0228,1300003O07Rik
A_51_P184414 Olfr1340,MOR258-6
A_51_P334685 Mbc2,vp115
A_51_P110395 BC031601
A_51_P334689 Uts2,Ull,Ucn2,prepro-Ull
A_51_P413193 Cryzl1,2210407J23Rik,2410006O11Rik
A_51_P498322 Rasa1,Gap,Rasa,RasGAP,MGC7759
A_51_P220062 Mmp15,MT2-MMP
A_51_P378158 Bbs1
A_51_P328400 Cops2,Csn2,Sgn2,Trip15,alien-like
A_51_P127695 Greb1,9130004E13,5730583K22Rik
A_51_P459350 Dstn,ADF,Dsn,com1,sid23p,2610043P17Rik
A_51_P371051 Glipr1,RTVP1,RTVP-1,mRTVP-1,2410114O14Rik
A_51_P385653 4632404H22Rik
A_51_P184447 Il17rd,Sef,Sef-S
A_51_P408625 Wrnip1,WHIP,Wrnip,4833444L21Rik
A_51_P459340 4933428G09Rik
A_51_P209030 Igh-VJ558,MGC6727
A_51_P135939 2610206B13Rik,MGC35679,2810449K13Rik
A_51_P408631 Slc20a1,Glv1,Glv1-1
A_51_P385635 Mrpl53,1110007K17Rik
A_51_P174005 Zc3hc1,Nipa,HSPC216,1110054L24Rik
A_51_P209029 Dpep2,MBD-2,F630103D06Rik
A_51_P280085 Zfp655,KIAA4222,mKIAA4222,2700038I16Rik,90304
A_51_P155736 Sox19
A_51_P450278 2010003K11Rik
A_51_P471177 Stra6
A_51_P155747 Scyl3,Pace1,6030457O16,1200016D23Rik
A_51_P450226 Kpna4,IPOA3,1110058D08Rik
A_51_P394281 Gbgt1,Fs,Fgs
A_51_P408604 2610009I02Rik,MGC107612,9030425C13Rik
A_51_P127681 Clic4,TU-74,mc3s5,D0Jmb3,mtCLIC
A_51_P483699 Dcbld1,4631413K11Rik
A_51_P408609 Slc27a4,FATP4
A_51_P155755 4933433K01Rik,Gm10
A_51_P483690 Napb,l47,E161,Brp14,SNARE,b-SNAP
A_51_P174016 Slc39a7,KE4,Ke-4,Ring5,H-2Ke4,H2-Ke4

A_51_P319662 6720464I07Rik
A_51_P155714 Traf3ip1,MIP-T3,3930402D05Rik
A_51_P420415 0610031P22
A_51_P261600 2310061F22Rik,9630020G22
A_51_P403693 Ube1dc1,5730525G14Rik
A_51_P106591 Tnrc4,CAGH4,Celf3,ERDA4,BRUNOL1,4930415M08
A_51_P209043 AK033203
A_51_P155723 Abcg3,Mxr2,Abcp2
A_51_P364714 Nox1,MOX1,NOH1,NOH-1,NOX1a,GP91-2,NOX1alp
A_51_P408666 Sstr3,sst3,Smstr3,Smstr-3
A_51_P209071 3110082I17Rik
A_51_P408644 Eif2ak4,GCN2,MGCN2,2610011M03
A_51_P227077 Mdh1b,1700124B08Rik
A_51_P450248 Esx1,Spx1
A_51_P261671 Cycs
A_51_P394269 Spg20,SPARTIN,TAHCCP1,MGC28621,mKIAA0610
A_51_P260789 Rbm11,A330018F01
A_51_P384618 Dhdds,DS,HDS,3222401G21Rik
A_51_P292754 Yaf2,2810021M11Rik
A_51_P371034 Rgs9
A_51_P350332 Rbpms,hermes,2010300K22Rik,2700019M19Rik
A_51_P174081 Zdhhc14,New1cp,MGC29194,B530001K09Rik
A_51_P394244 B230105J10
A_51_P498388 Sbk1,Sbk
A_51_P280013 2510002A14Rik,mKIAA0826,2010313D22Rik,231001
A_51_P436977 Duox2
A_51_P483617 0610040J01Rik
A_51_P489779 Cdk6,Crk2,AI504062,5830411I20
A_51_P261648 Olfr1507,Or28,Mor28,MOR244-1
A_51_P364788 Myh1,Ild,MdMs,Ild/x,Myhs-f,Myhsf2,MHC2X/D,Myhs-
A_51_P227042 Dusp24,Mkstyx,1700011C14Rik
A_51_P128283 Sdk2,Sdk-2,mKIAA1514,4632412F08Rik,5330435L0
A_51_P261689 Ube2s,E2-EPF,MGC101982,0910001J09Rik,672046
A_51_P371091 BC025872,MGC32399,A430105K13Rik
A_51_P175205 Rps6kb1,S6K1,70kDa,p70s6k,p70/85s6k,2610318I1
A_51_P322910 Pop1,MGC36536,4932434G09Rik
A_51_P227036 A230078I01Rik
A_51_P277563 9230002F21Rik
A_51_P236864 Parp8,D13Ertd275e,2810430O08Rik
A_51_P483639 A230098A12Rik
A_51_P467438 XM_285364
A_51_P404067 Trfp,1110011O05Rik,2410115I17Rik
A_51_P434567 Adra2a,[a]2A,Adra-2,Adra-2a,[a]>2A<,alpha2A,[a]>2
A_51_P500676 Dmbt1,CRP,Crpd,DBMT1,gp300,MUCLIN,hensin,CR
A_51_P322972 Hkdc1,MGC28816
A_51_P491190 Btg4,PC3B
A_51_P446417 1810074P20Rik,mKIAA0776
A_51_P420489 Pte2a,PTE-1a,AW108394
A_51_P434554 Inha
A_51_P322941 A930013K19,MGC107606
A_51_P236846 F3,TF,Cf3,Cf-3,CD142
A_51_P200151 Pak1ip1,PIP1,Gdpd1,5830431I15Rik,5930415H02Ri

A_51_P191400 Ttn,mdm,shru,1100001C23Rik,2310036G12Rik,2310036G12Rik,2310036G12Rik
A_51_P304126 1200016B17Rik,NECAP1,FLJ00061,mFLJ00061
A_51_P342897 A230048G03Rik,KIAA1414,MGC77977,2010013B10
A_51_P467490 D330037H05Rik,C530046N12
A_51_P347440 E430028B21Rik,2'-PDE
A_51_P110220 2700092H06Rik
A_51_P212630 Chd8
A_51_P277536 Ramp2
A_51_P322954 AY078069,lkappaBNS
A_51_P446477 1110019C08Rik
A_51_P413075 C130060K24Rik
A_51_P212666 Ntsr1,NT-1R,NTR-1
A_51_P518199 2610034B04Rik
A_51_P277521 6530409C15Rik
A_51_P277524 Akap8l,HAP95,Nakap95
A_51_P483677 1700121K02Rik
A_51_P280043 6330505F04Rik,D130066O12,4930535D10Rik
A_51_P512627 Syngr4,1700016O14Rik
A_51_P313035 Depdc5,D5Ertd477e
A_51_P459288 Smad9,MADH6,Madh9,Smad8,SMAD8A,SMAD8B
A_51_P376337 Olfr643,MOR13-2
A_51_P376333 B230374F23Rik,FSTL4,KIAA1061,mKIAA1061
A_51_P241319 Cilp,9830114D16,C130036G17Rik
A_51_P413005 Chn2,Bch,ARHGAP3,1700026N20Rik
A_51_P212611 Nat3
A_51_P128229 D17Ertd441e,Hn1l,AY358078,C16orf34,2810430B18
A_51_P484959 Rabep2,Fra,MGC8300,2610011A08Rik
A_51_P155018 Tsc1,hamartin,mKIAA0243
A_51_P369443 Ly6g5b
A_51_P271644 Rasgrp1,Rasgrp
A_51_P385952 Man2a2,MX,4931438M07Rik
A_51_P361951 Uqcrfs1,4430402G14Rik
A_51_P376358 Hnrpk,NOVA,hnRNPK,MGC102032
A_51_P334155 4930579F01Rik
A_51_P361958 Olfr1271,MOR227-5
A_51_P291018 Drp2
A_51_P146802 Rhobtb1,1700008H16Rik,3110048G13Rik
A_51_P128248 Al324046,MGC68300
A_51_P128621 C87414,MGC60750,MGC91124,MGC103218
A_51_P484978 Cblc,Cbl3,2310076I21Rik,2310079L19Rik
A_51_P369426 Zmynd17,4833444M15Rik
A_51_P376347 Hebp1,Hebp
A_51_P349413 Arl12,MGC73657
A_51_P342805 Ptpu,PTP,Ptpu
A_51_P376384 Olfr448,MOR261-13
A_51_P140434 4921504E06Rik,4921522E24Rik
A_51_P334104 Dcn,DC,PG40,PGII,PGS2,DSFG2,SLRR1B
A_51_P209183 Cxcl14,KS1,Kec,BMAC,BRAK,NJAC,MIP-2g,Scyb14
A_51_P342871 S100a10,42C,p10,p11,CAL12,CLP11,Cal1
A_51_P140429 1810010M01Rik,ZG16p
A_51_P334174 Rho,Ops,RP4,Opn2,MGC21585,MGC25387
A_51_P369478 Ppp2r5e,4633401M22Rik

A_51_P378087 Atp5c1,1700094F02Rik
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A_51_P127516 Rpl23a,MDA20,MGC36820,MGC107550,MGC10755
A_51_P408595 Ccl20,CKb4,LARC,ST38,MIP3A,MIP-3A,Scya20,MIF
A_51_P227090 Ramp3
A_51_P385928 Prom2,Prom-rp,MGC31164
A_51_P209193 Psmb3,C10-II
A_51_P110289 B230217C06Rik
A_51_P413088 Apob
A_51_P106259 Camk1,D6Ertd263e
A_51_P341647 Fanccl,Facc
A_51_P278843 Dscaml1,mKIAA1132,4921507G06Rik,4930435C18F
A_51_P155052 Xlkd1,Lyve-1,1200012G08Rik
A_51_P313067 Ccbe1,KIAA1983,mKIAA1983,9430093N24Rik
A_51_P498042 Mbd3l2
A_51_P277588 5730406M06Rik
A_51_P106249 Cklfsf2b,Cklfsf22,1700013O04Rik
A_51_P498004 Gna11,Dsk7,E430025L19
A_51_P471025 Ablim1,Limab1,abLIM-L,abLIM-M,abLIM-S,mKIAA00
A_51_P127545 Rps7,S7
A_51_P444669 BC022145,MGC30290,MGC37887
A_51_P378063 Aqp7,AQP 7,AQP7L,AQPap
A_51_P495242 Lat
A_51_P278868 H2-DMb1,H-2Mb1,H2-Mb1
A_51_P341664 Zfp87,KRAB4,Mzf22,Zfp72,MGC25780,2210039O17
A_51_P155073 Nudt14,1110030M18Rik
A_51_P443279 Espl1,SSE,ESP1,PRCE
A_51_P106269 Tnfrsf13b,Taci,1200009E08Rik
A_51_P184508 Speer5-ps1,SPEER-5,Speer5-ps,1700007C10Rik
A_51_P342837 NM_198632
A_51_P127527 Slc22a8,Oat3,Roct
A_51_P378051 Aoc3,SSAO,VAP1
A_51_P498023 Scyl1,Ntkl,p105,2810011O19Rik
A_51_P378079 Fmr1,FMRP,Fmr-1
A_51_P127560 2210404D11Rik,mKIAA0887
A_51_P378006 Galnt5,Galnt15,1700021B12Rik
A_51_P378009 Blzf1,Jem-1,Blzf1l,Golgin-45,1700030G05Rik
A_51_P489413 Luc7l,1810045C04Rik,2410018D03Rik
A_51_P106211 Aldh9a1,ESTM40,TMABA-DH
A_51_P209122 Agr2,Agr2h,Gob-4,HAG-2,XAG-2,mAG-2
A_51_P341688 Tiaf2,Tif2
A_51_P140498 4933413L06Rik
A_51_P413097 2810417D08Rik,mKIAA1287
A_51_P245631 3222401M22Rik,2700010E02Rik
A_51_P244020 A330096I21Rik,Rtbnl,MGC31644,MGC38683,MGC:
A_51_P350252 Fath,Fat1,mFat1,2310038E12Rik
A_51_P444696 Cdca2,2610311M19Rik
A_51_P220723 B230118H07Rik
A_51_P244034 Xpmc2h,Gm111
A_51_P408506 Icam1,CD54,Ly-47,Icam-1,MALA-2,MGC6195
A_51_P334190 Ky,CD1,D9Mgc44e
A_51_P209135 Jtb,Gm622

A_51_P334199 Ephb3,Etk2,HEK2,MDK5,Sek4,Cek10,Tyro6
A_51_P324330 Tomm70a,28185,D16lum22,D16lum22e,mKIAA0719
A_51_P155477 4933431I19Rik
A_51_P174773 2900010M23Rik
A_51_P378029 2310039E09Rik,MGC107637
A_51_P450750 Pla2g4b,Gm1013,MGC28892,A030011C02Rik
A_51_P380807 Ckm,MCK,Ckmm,M-CK
A_51_P380801 2610318G18Rik,2010305N14Rik
A_51_P350222 Dncl2,LIC2,Dncli2,C920003I06
A_51_P184573 B230113M03Rik,E2-230K,mKIAA1734,9630022H21
A_51_P420731 Thy1,CD90,Thy-1,Thy1.1,Thy1.2,Thy-1.2
A_51_P194999 Tarsl1,2610024N01Rik
A_51_P155465 Cuzd1,USG,ERG-1,UO-44,UTCZP,ltmap1
A_51_P194984 Brd8,SMAP,p120,2610007E11Rik,4432404P07Rik,4
A_51_P278893 Hdac5,Hdac4,mHDA1,mKIAA0600
A_51_P450740 Ptpn21,PTPD1,PTPRL10
A_51_P380824 Olfr1225,MOR233-11
A_51_P134452 Edg7,lpA3
A_51_P209118 4930509H03Rik
A_51_P498093 Hes1,Hry
A_51_P489452 Cdo1,Cdo,D18Ucla3,1300002L19Rik
A_51_P402805 2310021P13Rik,mKIAA0913,4832404P21Rik
A_51_P244052 Acad8,2310016C19Rik
A_51_P408561 Al314976
A_51_P471088 V1rc18
A_51_P206268 Seh1l,Seh1,SEH1A,SEH1B,SEC13L,2610007A16Rik
A_51_P471058 Mrc2,uPARAP,Endo180,mKIAA0709
A_51_P394190 Lmo4,Crp3,Etobi4,A730077C12Rik
A_51_P244061 Snapc5,2010103A03Rik
A_51_P106294 Gck,Gk,GLK,HK4,HKIV,HXKP,MODY2
A_51_P278887 Hint2,1190005L05Rik
A_51_P350214 TC1033342
A_51_P261739 Il1rapl2
A_51_P261737 Pdzk1,Pdzd1,mPDZK1,D3Ert537e,1700023D20Rik
A_51_P128786 4833424O15Rik
A_51_P227124 Cul7,p185,p193,2510004L20Rik,C230011P08Rik
A_51_P206225 Uroc1,MGC37818
A_51_P293715 Fgfrl1,FGFR5,FGFR5beta,FGFR5gamma
A_51_P174783 Pramel1
A_51_P114634 6530401C20Rik,5330426I05
A_51_P380848 Jrkl,HHMJG,C030035D04Rik
A_51_P380844 4930481M05
A_51_P303906 Actr2,Arp2,MGC36604,D6Ert5746e,4921510D23Rik
A_51_P520585 Rhebl1,1810036J22Rik
A_51_P394174 Ankrd6
A_51_P394172 Es1,Ee-1,Es-1,Es-4,Es-N
A_51_P420774 Btbd7,FUP1,MGC49574,mKIAA1525,8030448M07,5
A_51_P380875 Cspg6,HCAP,SMC3,SmcD,Mmip1,Bamacan
A_51_P261718 Acly,A730098H14Rik
A_51_P420726 2900024O10Rik
A_51_P394154 Ddx51,2310061O04Rik
A_51_P227108 Bri3bp,2410150I18Rik

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A_51_P333344 Gm1369,MGC107701
A_51_P364871 Olfr361,MOR159-3
A_51_P434659 Sipa1l1,mKIAA0440,4931426N11Rik
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A_51_P128397 Nr4a3,CHN,TEC,CSMF,Nor1,MINOR,NOR-1
A_51_P280304 Ptk9l,Twf2,Ptk9r,A6-related
A_51_P294705 Pcyt1a,Ctpct,CTalpha,Cttalpha
A_51_P376207 Olfr342,MOR136-4
A_51_P491095 Zfp336,GZF1,mGZF1,8430437G08Rik
A_51_P394115 Aadac,Aada,5033417E09Rik
A_51_P155482 Pole
A_51_P350294 Slc9a3,NHE3,9030624O13Rik
A_51_P380881 Pcqap,A230074L19Rik
A_51_P512525 Cfh,NOM,Sas1,Mud-1,Sas-1
A_51_P128320 Muc2,MCM,2010015E03Rik
A_51_P277431 Ccdc3,2310045O21Rik
A_51_P325491 1110007C05Rik
A_51_P294778 5730403M16Rik,8030437F07
A_51_P227022 Rpp30,TSG15,Rnasep2
A_51_P376227 Bcat1,BCATc,Eca39
A_51_P467573 Usp12,Ubh1
A_51_P128304 Olfr1006,MOR213-4
A_51_P277454 Fbxw14,Fbx12,Fbxo12,E330009N23Rik
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A_51_P512503 Bpnt1,BPntase
A_51_P114693 9130213B05Rik,2210012L08Rik
A_51_P467591 Vav2,2810040F13Rik
A_51_P491051 D14Erttd231e
A_51_P165210 Arhgef7,PIX,Pak3bp,p85SPR,p85Cool1,betaPix-b,be
A_51_P220222 Tacc3,Aint
A_51_P376258 Glud1,Glud,Gdh-X,Gludl
A_51_P140524 Nav3,POMFIL1,unc53H3,Pomfil1p,mKIAA0938,steer
A_51_P491075 Ccdc11,4933415I03Rik
A_51_P512513 Lhcgr,Lhr,Gpcr19-rs1
A_51_P334063 Crybb1,BB1CRY,3110006K12Rik
A_51_P313561 Lmna
A_51_P110576 Lgmn,AEP,Prsc1
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A_51_P434689 9230116L04Rik
A_51_P342926 Omd,SLRR2C
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A_51_P110529 Plxna2,OCT,Plxn2,mKIAA0463,2810428A13Rik
A_51_P140541 Ppm1b,PP2CB,MGC106489
A_51_P313532 2310061B02Rik,KIAA4161,mKIAA4161
A_51_P334072 Cyct
A_51_P165244 Gbp4,Gbp3
A_51_P342906 Sh3bp1,3BP-1
A_51_P491011 Perld1,CAB2,D430035D22Rik

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A_51_P378381 4933436C20Rik
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A_51_P408082 Apoa1,Sep2,Alp-1,Ltw-1,Sep-1,Sep-2,Apoa-1,Brp-14
A_51_P209697 Atcay,ji,hes,CLAC,BNIP-H,3322401A10Rik
A_51_P364984 Gabpa
A_51_P437119 Olfr629,MOR26-2
A_51_P458914 5530400B04Rik
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A_51_P444555 Hydin,hy3,hy-3,4932703P14,A830061H17,1700034N
A_51_P220262 G630064H08Rik,2900024M11Rik
A_51_P334019 2810484M10Rik
A_51_P342916 B3gal1,beta3GalT1,beta3GalT-I,6330417G03Rik
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A_51_P434685 BC011413
A_51_P443339 Ces6,9130231C15Rik
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A_51_P319453 Zfp143,SBF,Staf,Zfp79,pHZ-1,KRAB14,Zfp80-rs1,D7
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A_51_P106322 Gpsm3,AGS4
A_51_P437144 6720463E02Rik,Dlc2,1700064A15Rik
A_51_P444543 Dbh
A_51_P378341 4933411O13Rik
A_51_P378348 Plaa,PLAP,2410007N06,D4Ert618e
A_51_P512591 Cdc42se1,SCIP1,Spec1,Cdcse1,1300002M12Rik
A_51_P437135 Dab1,scm,scr,yot,scrambler
A_51_P106377 V1rc1
A_51_P484998 Hgf,NK1,NK2,HGF/SF,SF/HGF,C230052L06Rik
A_51_P106373 Sdhc,MGC103103,0610010E03Rik
A_51_P127035 4432405B04Rik
A_51_P174645 Asl,2510006M18Rik
A_51_P319470 Olfr954,MOR171-42,MOR171-53
A_51_P378371 TC955592
A_51_P408059 Nutf2,Ntf2,Ntf3,PP15,MGC102015,2700067I02Rik
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A_51_P437176 Trim47,2210023F24Rik
A_51_P385472 Adam22,MDC2,ADAM22-A04,ADAM22-A13,ADAM2
A_51_P459538 Ddb1,127kDa,p127-Ddb1
A_51_P270891 1700056E22Rik
A_51_P378336 Coq3,4732433J24
A_51_P270894 Zfp61
A_51_P408044 Akt2,PKB,PKBbeta,MGC14031,2410016A19Rik
A_51_P278519 Qscn6,SOx,QSOX1,1300003H02Rik
A_51_P155997 Bcl7a,4432415N06Rik
A_51_P319460 Osmr,OSMRB
A_51_P450459 2310015A05Rik
A_51_P140597 Gbf1,MGC90745,MGC100238,mKIAA0248,1700083
A_51_P313581 Fabp2,Fabpi,I-FABP
A_51_P408071 Kntc1,D330012D13
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A_51_P437198 Egr3,Pilot
A_51_P138152 D10Ert214e
A_51_P483483 4632404H12Rik
A_51_P378312 0610030E20Rik,2810411C16Rik
A_51_P244333 D3Ert2194e,MGC105246,D030048D22
A_51_P334093 Slc39a8,BIGM103,4933419D20Rik
A_51_P278532 Mrpl40,Nlvcf
A_51_P437188 6330577E15Rik
A_51_P471779 Phf5a,1110007B08Rik
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A_51_P350105 4921521F21Rik
A_51_P420276 Plxdc2,Tem7r,1200007L24Rik
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A_51_P350134 4922502B01Rik,2900056M07Rik
A_51_P280697 Gif
A_51_P450469 Pnoc,N23K,N/OFQ,Npnc1,OFQ/N
A_51_P206153 Ptpd,MGC36851,MGC113757,1110002J03Rik,3000
A_51_P261051 Dlx5
A_51_P244356 Atad3a,Tob3,2400004H09Rik
A_51_P483499 Serpinb9c,NK9,Spi11,ovalbumin,3830421J05Rik
A_51_P458983 MGC5739
A_51_P364901 4921528O07Rik
A_51_P330825 BC030476,MGC40815
A_51_P319425 3830408P06Rik,Drim
A_51_P394040 Allc,Alc,1700012B22Rik
A_51_P148227 Etv3,Pe1,METS
A_51_P294849 Atp5g3,6030447M23
A_51_P392005 Car8,Cals,Carp,Cals1
A_51_P206144 9030425E11Rik,ASAM,CLMP,asp5
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A_51_P380919 1700001F22Rik,MGC107306
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A_51_P206134 Al597013,MGC116630,mKIAA1968
A_51_P483436 4930404H21Rik
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A_51_P346747 Usp21,Usp16,Usp23,ESTM28
A_51_P483438 Sema3e,Semah,mKIAA0331
A_51_P420236 Ars2,Asr2,ASR2A,ASR2B,ASR2C,ASR2D

A_51_P380970 Efnb2,Epl5,ELF-2,Eplg5,Htk-L,Lerk5,LERK-5,NLERK
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A_51_P191669 Chgb,Scg-1
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A_51_P155909 1700113H08Rik
A_51_P244396 XM_110013
A_51_P250797 Glrb,spa,Glyrb,spastic
A_51_P380986 Epc1,2400007E14Rik,5730566F07Rik,A930032N02I
A_51_P369683 Dhx9,RHA,Ddx9,NDHII,NDH II,MGC90954
A_51_P128096 Dnpep
A_51_P303316 Hoxa13,Hd,Hox-1.10
A_51_P280666 B230209C24Rik
A_51_P294807 Stom,Epb7.2
A_51_P270807 Tnfrsf17,BCM,BCMA,Tnfrsf13,Tnfrsf13a
A_51_P404263 Adhfe1,Adh8,6330565B14Rik
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A_51_P191601 2510039O18Rik
A_51_P155966 2610034E18Rik,GAJ
A_51_P101065 Htr7,5-HT7
A_51_P450487 Sqle
A_51_P483473 St3gal5,3S-T,[a]2,Siat9
A_51_P500051 Itpr2,lp3r2,Itpr5,InsP3R-2,InsP3R-5
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A_51_P309307 Gm566
A_51_P388801 Tbcc,MGC103238,2810055C19Rik
A_51_P491366 Zfp606,2410022M24Rik
A_51_P388835 Thrb,Nr1a2,Thrb1,Thrb2,T3R[b],T3Rbeta,c-erbAbeta
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A_51_P101086 Zfp397,2810411K16Rik,6720480F11Rik
A_51_P376127 Aire
A_51_P261092 Slc2a9,Glut9
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A_51_P235994 Wdfy3,ALFY,BWF1,Ggtb3,ZFYVE25,D5Ertd66e,mKI
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A_51_P491355 Suv420h1,MGC18702,Suv4-20h1,C630029K18Rik
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A_51_P128010 Sval2,SLP-M
A_51_P235984 Il10ra,Il10r,CDw210,mIL-10R
A_51_P294883 2610036N15Rik,MGC30353
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A_51_P127718 Sh3bgr
A_51_P459498 Crygs,Opj,rncat
A_51_P235945 Hp,HP-1
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A_51_P184796 Zfp101
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A_51_P444005 1300007L22Rik
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A_51_P350069 Olfr1189,MOR237-2
A_51_P471608 Olfr1336,MOR103-7
A_51_P436888 1700084C06Rik
A_51_P450984 Olfr429,MOR105-1
A_51_P508838 Kcne4,MiRP3
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A_51_P444092 Clec4a2,DCIR,Dcir1,Clecsf6
A_51_P378210 Guca2a,Guca2
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A_51_P209704 4931432M23Rik,Klkb14
A_51_P350073 Ndel1,NUDEL,MITAP1,2600006O07Rik

A_51_P385773 Eif2ak1,Hri
A_51_P259983 4930425F17Rik
A_51_P436813 5430405H02Rik,2610307N17Rik
A_51_P420577 Olfr983,MOR162-1
A_51_P261107 Ogt,1110038P24Rik,4831420N21Rik
A_51_P471630 Parp2,Adprt2,PARP-2,Adprtl2,Aspartl2
A_51_P350033 Lrat,1300010A18Rik
A_51_P261150 Sf3b4,49kDa,Sap49,SF3b49,SF3b50,MGC36369,MC
A_51_P259995 Rbm13,2600016B03Rik
A_51_P113890 AK081273
A_51_P420519 Olfr1018,MOR260-5
A_51_P471619 Actl7b,Tact1
A_51_P436839 Lisch7,LSR
A_51_P403586 Ttn,mdm,shru,1100001C23Rik,2310036G12Rik,2310
A_51_P280137 Tgfbr1,ALK5,Alk-5,TbetaRI,TbetaR-I
A_51_P155604 Eif4ebp3,4E-BP3,MGC74395
A_51_P148374 Gpr165,6530406P05Rik
A_51_P498287 Otoa
A_51_P244633 Fscn2,A930022G03,C630046B20Rik
A_51_P408749 4933439C10Rik,2610028M21Rik
A_51_P453969 1700029I08Rik
A_51_P117226 Zdhhc2,5730415P04Rik,6430583A19Rik
A_51_P261131 AK084367
A_51_P420547 TC1087099
A_51_P450929 Chrnd,Acrd,Achr-4
A_51_P325624 Hsbp1,Hsp25,0610007A03Rik
A_51_P114062 Freq,Ncs1,Mfreq,NCS-1,9430075O15Rik,A730032G
A_51_P388984 Rgs19,GAIP,2610042F04Rik
A_51_P471689 BC004701,MGC7766,D330021P09Rik
A_51_P420541 5830457O10Rik
A_51_P483544 Aass,Lorsdh,LKR/SDH,LOR/SDH
A_51_P280158 Sf3b2,SF3b1,145kDa,SAP145,SF3b145,SF3b150,26
A_51_P155323 Hc,C5,He
A_51_P244690 Ube2b,HR6B,Rad6b,E2-14k
A_51_P483511 Dock8,1200017A24Rik,5830472H07Rik,A130095G1
A_51_P174591 Prdx5,AOPP,PrxV,Pmp20,Prdx6,AOEB166
A_51_P520384 Atp1b3
A_51_P450952 1110036O03Rik,Sc65
A_51_P294535 Unc5b,Unc5h2,A630020F16,D10Bwg0792e,6330415
A_51_P483557 Ube2b,HR6B,Rad6b,E2-14k
A_51_P113806 Gpr85,2900026B03Rik
A_51_P325651 Cd47,IAP,ltgp,9130415E20Rik,B430305P08Rik
A_51_P294505 Ms4a4d,2210417J23Rik
A_51_P483576 LOC386520
A_51_P325664 Olfr799,MOR114-2
A_51_P155313 Gsto1,p28,GSTX
A_51_P261184 2810021J22Rik
A_51_P337974 Myoz3
A_51_P294515 Mir16,GDE1,RGS16,1200003M13Rik
A_51_P294566 9930116N10Rik
A_51_P337925 Gzmm,Lmet1,MMET-1,granzyme M
A_51_P313779 BC059177,Gm571,MGC62412,mKIAA0478,C230087

A_51_P491240 2510042H12Rik
A_51_P512340 Pde4b,Dpde4,dunce
A_51_P294550 Stx5a,Stx5,D19Ert627e,0610031F24Rik
A_51_P337935 2010001P20Rik
A_51_P434427 Olfr1184,MOR225-3
A_51_P294555 Ifitm6,Fgls5,fragilis5,A330075D07
A_51_P113865 Gababrbp,Marlin-1,5830437M04Rik,C330021K24Rik
A_51_P128595 Mtx3,Gm1194,4930470O13Rik
A_51_P337944 Bmp2k,BIKE,4933417M22Rik
A_51_P373619 Mbl1,MBL-A,S-MBP
A_51_P309661 Nav1,POMFIL3,unc53H1,mKIAA1151,steerin-1,9530
A_51_P512364 Fus,Tls,Fus1,D430004D17Rik,D930039C12Rik
A_51_P491227 Suclg1,Sucla1,1500000I01Rik
A_51_P165027 Pygo1,2600014C22Rik
A_51_P227165 2310030G06Rik,2610024D04Rik
A_51_P369550 Cd84,CDw84,SLAMF5,A130013D22Rik
A_51_P373609 2210023C10Rik
A_51_P337918 Aldh4a1,P5CD,ALDH4,P5CDH,P5CDhL,P5CDhS,E3
A_51_P334263 Nup155,mKIAA0791,D930027M19Rik
A_51_P313761 Shmt2,2700043D08Rik
A_51_P491279 9330161L09Rik
A_51_P240136 Gng8,G(y)8
A_51_P235848 Gpr37,Pael-R
A_51_P467629 4930504H06Rik
A_51_P518298 NM_022423
A_51_P110725 Tsc22d2,1810043J12Rik
A_51_P128147 Pcoln3,2900018H07Rik
A_51_P220454 Avpr1b,VIBR,VPR3,AVPR3,V3/V1b
A_51_P330144 Al661311,mKIAA0590
A_51_P110759 Slc1a1,EAAC1,EAAC2,EAAT3,MEAAC1,D130048G
A_51_P259861 0610012D09Rik,Drev,MNCb-5680
A_51_P203148 Igh-4,IgG1
A_51_P235863 1110034O07Rik
A_51_P467614 1700031F13Rik
A_51_P508947 0610040D20Rik,Ed1,mED1,c11orf5,2900052N06Rik
A_51_P259879 Fkrp,MDC1C,LGMD1I,A830029B19Rik
A_51_P259876 Dock9,Zizimin1,D14Wsu89e,mKIAA1058,B230309H
A_51_P140761 Syn3
A_51_P313711 Myh9,Myhn1,D0Jmb2,Myhn-1,TU-72.6,NMHC II-A,E
A_51_P376050 Epsti1,BRESI1,2310046K10Rik,5033415K03Rik
A_51_P376057 Bcorl1,B930011H20Rik
A_51_P459787 C130068N17Rik
A_51_P203138 Foxh1,Fast2
A_51_P127279 4930504E06Rik,ni,cl-40,mKIAA1390,1810005H09Ril
A_51_P259848 Gm631,MGC60849
A_51_P140731 Cops5,CSN5,Jab1,Sgn5,Mov34
A_51_P369540 Olfr139,M5,MOR255-2
A_51_P467618 Fmip,Sgk2,PK1.3,MGC49541,1700060C24Rik
A_51_P235878 Guk1,GMK,Guk-1
A_51_P437336 Uaca,nucling,2700059D02Rik
A_51_P341746 Mpl,CD110,TPO-R,c-mpl,c-mpl-I,c-mpl-II
A_51_P155763 Ascc3,RNAH,Helic1,ASC1p200,D630041L21,B63000

A_51_P459770 6430702L21Rik
A_51_P220407 Rnpepl1,1110014H17Rik
A_51_P106144 Zfp64
A_51_P127247 Olfr330,MOR275-1
A_51_P140742 Islr
A_51_P467668 lck
A_51_P220414 Zfp235,0610030O19Rik
A_51_P140710 Ccl3,Mip1a,Scya3,G0S19-1,MIP1-(a),LD78alpha,MIF
A_51_P511899 BC052066,MGC62465,C920004D05
A_51_P349532 Trim26,Zfp173,Zfp1736
A_51_P508956 Gpr54
A_51_P235816 Tsc22d3,DIP,Gilz,Dsip1,TSC-22R
A_51_P227112 Dnajb5,Hsc40,Hsp40-3,1110058L06Rik
A_51_P127215 Sesn3,SEST3,MGC7182,5630400E15Rik
A_51_P209483 Phox2a,Arix,Pmx2,Phox2,Pmx2a
A_51_P165098 Gga2,mKIAA1080,1200007E24Rik
A_51_P174463 Ssr4,Trap
A_51_P127915 D11Bwg0434e,2310033H11Rik
A_51_P184041 4931431C02Rik,mKIAA1395,2410095B20Rik
A_51_P220422 Pacsin1,H74,syndapin,mKIAA1379,A830061D09Rik
A_51_P296846 D15Bwg0669e,6230403M19
A_51_P437309 Oasl1,oasl9,7530414C13Rik
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A_51_P459741 Gprasp1,GASP,GASP1,MGC100209,2210415K24Ri
A_51_P434483 Hpn
A_51_P508959 E130201N16Rik,G90
A_51_P184006 Cpxm2,Cpx2,CPX-2,4632435C11Rik
A_51_P467699 4930556J24Rik
A_51_P437349 Mds1,Mds,Prdm3,ZNFPR1B1,MDS1-EV11
A_51_P508919 Tas1r1,TR1,T1r1,Gpr70
A_51_P467682 Mapk1ip1,MISS,2310009E07Rik
A_51_P235835 D12Ertd647e,ISG12a,1110013J02Rik,2900026P10R
A_51_P174471 9430098F02Rik
A_51_P341789 Sf4,5730496N02Rik
A_51_P296866 Msi1h,Msi1,Musahi1,m-Msi-1
A_51_P165087 Snai1,Sna
A_51_P403271 Camta2,mKIAA0909,Kiaa0909-hp
A_51_P184024 5730449L18Rik
A_51_P197883 3110037I16Rik
A_51_P471520 Stk25,Ysk1,Ste20-like,1500019J11Rik
A_51_P220837 Olfr786,MOR111-5
A_51_P502888 Ncoa1,SRC1,Src-1,MGC90703
A_51_P379905 Akap4,p82,Fsc1
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A_51_P140797 lqwd1,PC326,1200006M05Rik
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A_51_P334289 Zfp628,Zec
A_51_P444795 BU605312
A_51_P220806 Gdf9,Gdf-9
A_51_P403277 Tax1bp1,T6bp,TXBP151,D6Ertd404e,D6Ertd772e,12
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A_51_P251977 V1rc29
A_51_P493234 Cp,D3ErtD555e
A_51_P261276 Olfr461,MOR120-3
A_51_P408227 9130017N09Rik
A_51_P108731 Polr2h,MGC8248,MGC103049
A_51_P365578 Ppp2r1a,PP2A,PR65,6330556D22Rik
A_51_P251964 E330034G19Rik
A_51_P174434 Cenpj,LAP,CPAP,Gm81,LIP1,MGC102215,4932437
A_51_P209413 Akap3
A_51_P106191 Ranbp9,Ibap1,IBAP-1,RanBPM
A_51_P101228 Gmeb2
A_51_P379997 Galnt3
A_51_P250571 Tas2r137,TRB3,TRB5,T2R37,T2r34,Tas2r8,mt2r41,
A_51_P424690 Rgs20,Rgsz1,2900073E09Rik
A_51_P420037 Nup210,gp190,gp210,Pom210,9830001L10
A_51_P280492 Ndufa9,1010001N11Rik
A_51_P420045 Ebag9,Rcas1
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A_51_P280455 Prg4,MSF,SZP,CACP,JCAP,DOL54
A_51_P250559 Kcnj14,IRK4,Kir2.4,MGC25490,MGC38951,A93002E
A_51_P483269 B930067F20Rik
A_51_P404478 Oscar,mOSCAR,mOSCAR-M1,mOSCAR-M2,mOSC
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A_51_P503671 Syt13,5730409J20Rik
A_51_P483215 Phxr4,Sp5
A_51_P101255 Coasy,Dpck,Ppat,Ukr1,1300003G02Rik
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A_51_P500822 Mtpn,V1,Gcdp,5033418D15Rik
A_51_P325552 Nurit,1700086N05Rik
A_51_P404413 Bckdk
A_51_P128643 Rai17,E330020C23
A_51_P369058 Prox1,A230003G05Rik
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A_51_P313467 Ctdp1,4930563P03Rik
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A_51_P330044 Cyp2j9,8430417E17Rik
A_51_P165304 9630041G16Rik
A_51_P434928 Olfr114,MOR218-10
A_51_P236573 Cd4,L3T4,Ly-4
A_51_P297968 Txndc7,P5,CaBP5,1700015E05Rik
A_51_P313444 Fkbp6,36kDa,D5ErtD724e,1700008G22Rik
A_51_P165330 Mrpl33,0610009M10Rik
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A_51_P173801 V1rc23
A_51_P458839 Piga,Pig-a

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A_51_P467770 Snx19,mKIAA0254,3526401K03Rik
A_51_P220343 Wisp1,Elm1
A_51_P184108 4921530D09Rik
A_51_P280384 Cacna1h,Cav3.2,MNCb-1209,alpha13.2
A_51_P471440 Map2k4,MEK4,MKK4,Sek1,JNKK1,Serk1,PRKMK4
A_51_P437240 Emp2,XMP
A_51_P297993 A_51_P297993
A_51_P437247 Centd2,mKIAA0782,2410002L19Rik
A_51_P110689 Rrm2,R2,MGC113712
A_51_P209597 Afm,Alf,alpha-Alb
A_51_P184156 Cfc1,cryptic
A_51_P399217 Pigx,2010319C14Rik
A_51_P220718 AK081687
A_51_P406090 A930028L21Rik,A330067P21
A_51_P467751 D8Ertd354e,9430010M12Rik
A_51_P444216 4933402D24Rik
A_51_P489406 Jmjd1a,TGSA,Tsga,Jmjd1,mKIAA0742,1700105C21
A_51_P500981 Mtap7,MAP7,E-MAP-115
A_51_P459615 Zzz3,3110065C23Rik
A_51_P500984 Gadd45b,Myd118
A_51_P110699 Spata2,MGC38980
A_51_P467798 Niban
A_51_P341296 Dmrtb1,Dmrt6,Prp13
A_51_P431903 Pdcd6,PS2,Alg2,MA-3,alg-2
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A_51_P259726 Def8,D8Ertd713e
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A_51_P251892 Magoh
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A_51_P458866 F11r,JAM,Jcam,JAM-1,JAM-A,Jcam1,Ly106,ESTM3
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A_51_P341285 2410003P15Rik,Bfzb,Bfzp,mbFZb,2310079L17Rik,3
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A_51_P251821 Lnk
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A_51_P500949 Milt2h,Af4,Rob,9630032B01Rik
A_51_P244439 Eif5,MGC36374,MGC36509,D12Ertd549e
A_51_P408100 Fgfr4,Fgfr-4
A_51_P127186 Etohi2,Rn3,MGC115770,1110013A17Rik
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A_51_P261340 Faim2,Lfg,NMP25,mKIAA0950,2900002L20Rik
A_51_P196973 Chaf1a,CAF-1,Cac1p
A_51_P196972 Slc4a1,Ae1,CD233,Empb3,I11Jus51
A_51_P306527 Ywhah
A_51_P420338 Dsg3,bal,balding
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A_51_P122035 Nipa1,FSP3,Spg6,1110027G09Rik,A830014A18Rik
A_51_P161682 Coq7,clk-1
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A_51_P483344 Pex5,Pxr1,ESTM1,PTS1R
A_51_P261359 Gba2,F630034E04
A_51_P255875 Padi4,Pdi4
A_51_P261351 Mrpl49,Nof1,4833419D18Rik
A_51_P408123 Herc1,MGC7618,B230218H07,2810449H11Rik,D130
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A_51_P395948 Sv2b,MGC38746,mKIAA0735,A830038F04Rik
A_51_P420321 Ftmt,MtF,Fth3,4930447C24Rik
A_51_P371942 Pcolce
A_51_P500970 V2r14
A_51_P483351 Lix1l,D130027M04Rik
A_51_P367240 1300010A20Rik,MGC30714
A_51_P122055 D17H6S56E-3,G7c,NG37,C6orf27
A_51_P250647 Mki67ip,NIFK,C130020J04Rik
A_51_P369796 Zfp160,F11,HZF5,KR18,HKr18,mszf47,6720480D16
A_51_P483366 AK033817
A_51_P500906 Timd2,Tim2
A_51_P136941 Xrcc4,2310057B22Rik
A_51_P319386 Myo15,sh2,sh-2,Myo15a
A_51_P251833 Gpha2,GPA2,zsig51
A_51_P381811 1700040A12Rik
A_51_P159402 Gcat,Kbl
A_51_P369784 Es22,Eg,Es-22,egasyn
A_51_P294346 C79407,KIAA1903,mKIAA1903,6720403H11
A_51_P277884 Eif1a,Ef1a,Eftu,Eif4c,eIF-1A
A_51_P458086 Terf2,TRF2
A_51_P294340 Commd8,D5Buc26e
A_51_P325065 NAP057120-1
A_51_P280761 Baz1a,Acf1,Gtl5,cbp146,Wcrf180
A_51_P306565 1700072E05Rik
A_51_P483379 Rnaseh1
A_51_P122071 Muc5b,MUC5,MUC9,mucin 5b,A130042M24,230000
A_51_P122075 5430417C01Rik
A_51_P196925 Cx3cl1,CX3C,Cxc3,Scyd1,ABCD-3,AB030188,D8Bw
A_51_P483301 Prdx6-rs1,Aop2-rs1,MGC107184,Prdx5-rs1,4930414
A_51_P325071 Numb,mnb,m-numb
A_51_P141458 LOC432637
A_51_P136928 Casc1,Las1,A230084G12Rik
A_51_P244492 Nbl1,DAN,NO3,Dana,D4H1S1733E
A_51_P244497 Plin,perilipin A,perilipin B,6030432J05Rik

A_51_P196910 AI530533
A_51_P367285 Rnf135,MGC13061,0610037N03Rik,2410006N06Rik
A_51_P215627 Plac9,MGC41689
A_51_P404353 Gtf2e2,34kDa,C330006J08Rik
A_51_P250689 2610022G08Rik
A_51_P371912 Kctd12,Pfet1,Pfetin,6430514H16
A_51_P294375 5730559C18Rik,FLJ10901,1700034M08Rik,4933426
A_51_P483324 Ptpn22,PEP,Ptpn8,70zpep
A_51_P155843 Igsf10,CMF608,9030224D03,6530405F15Rik
A_51_P483329 Sdad1,4931421J16
A_51_P122085 Usp20,Vdu2,1700055M05Rik
A_51_P261388 GnT-IX,mGnTVB,C330018B01
A_51_P376656 Synpr,SPO,1500003F20Rik
A_51_P118868 Olfr1055,MOR186-1
A_51_P425205 Sod1,Ipo1,SODC,Ipo-1,Sod-1,CuZnSOD,Cu/Zn-SOD
A_51_P137560 Etsrp71,Etv2
A_51_P448987 Wbp11,Npwpb,SIPP1,D6Wsu113e,2510026P17Rik
A_51_P137578 C030014K22Rik,C030020L09Rik
A_51_P499979 A_51_P499979
A_51_P500344 Mat2a,MGC6545,D630045P18Rik
A_51_P280723 Cmk1r1,DEZ,Gpccr27,mcmk1r1
A_51_P376623 6030460N08Rik
A_51_P128775 2210410P13Rik
A_51_P277805 Olfr1132,MOR177-1
A_51_P406334 D2Bwg1335e,1110034G11Rik
A_51_P203306 V1ri10
A_51_P425232 Rcbtb1,CLLD7,CLLL7,5430409I18Rik
A_51_P118877 D530033K05Rik
A_51_P155514 Prl
A_51_P297858 Amaco
A_51_P369773 2310043L02Rik
A_51_P297850 Kcnh1,M-eag
A_51_P118885 Amacr,Macr1
A_51_P512172 Cxxc6,LCX,Tet1,mKIAA1676,D10Ertd17e,2510010B
A_51_P406315 Gpr44,Crth2,Grp45
A_51_P512157 Slc30a6,ZnT6,ZnT-6,MGC11963
A_51_P373402 2810013M15Rik,2610100D03Rik
A_51_P165617 Tufm,EFTU,EF-TuMT,2300002G02Rik
A_51_P196990 Mrpl39,ORF22,Rpml5,MRP-L5,C21orf8
A_51_P467051 Trim7
A_51_P220665 Unc5d,Unc5h4,KIAA1777,mKIAA1777
A_51_P203360 Pkn1,DBK,Pkn,PAK1,PRK1,Stk3,Prkcl1,F730027O1
A_51_P425254 Farp2,Fir,KIAA0793,mKIAA0793,D030026M03Rik
A_51_P297878 Mak10,A330021G12Rik,A330027C19Rik,C030004C
A_51_P395991 Dspp
A_51_P277836 1700008P02Rik
A_51_P128725 Rbak
A_51_P484020 Cd300c,CLM4,DlgR1,Igsf7,Lmir2,MAIR-II
A_51_P444148 8430438D04Rik,MGC116613,D330034A10Rik
A_51_P373461 C6.1A,MGC29148
A_51_P467006 Slc25a19,DNC,MUP1,2900089E13Rik
A_51_P406346 Magi1,AIP3,BAP1,WWP3,Baiap1,Gukmi1,Magi-1,TN

A_51_P140171 Atp6v1g1,VAG1,ATP6J,Vma10,Atp6g1,1810024D14
A_51_P369740 Dclre1c,Snm1I,Artemis,AI661365,9930121L06Rik
A_51_P412736 Cebpz,Cbf,CBF2,MGC36087,Cebpars1
A_51_P425279 9030607L17Rik
A_51_P412732 D16Ert472e,1700010I10Rik,2310009O17Rik,E330C
A_51_P467076 Cyp2b9,Cyp2b
A_51_P203340 Dnahc12,DHC3,HL19,DLP12,Gm907,HL-19,Hdhc3,I
A_51_P341571 Klhdc2,LCP,HCLP-1,D12Ert522e,2310022K15Rik
A_51_P259694 Xrcc1,Xrcc-1,MGC102556
A_51_P165602 Lbx2,Lbx2h
A_51_P110938 Dock4,mKIAA0716,5330406C03,C030023J22,63304
A_51_P234421 Smpd2,nSMase,nSMase1
A_51_P444137 4933406J07Rik
A_51_P444162 Frs3,Snt2,AI449674,Frs2beta,MGC25496,4930417B
A_51_P467025 Setbp1,Seb,MGC90748,mKIAA0437,C130092E12
A_51_P385086 Thpo,TPO,Mpllg,TPO-1,TPO-2,TPO-3,TPO-4
A_51_P406365 Maf1,1110068E11Rik
A_51_P220615 Macf1,Acf7,MACF,Aclp7,mACF7,ABP620,mKIAA046
A_51_P437559 Timeless,tim,Debt69
A_51_P140118 Accn2,ASIC,ASIC1,BNaC2,ASIC1a,ASICalpha,ASIC
A_51_P203356 NAP108526-1
A_51_P110914 1700010D01Rik
A_51_P385099 Tnf,DIF,Tnfa,TNFSF2,Tnfsf1a,TNFalpha,cytokine,TN
A_51_P484054 F7,Cf7,FVII,mfVII
A_51_P197618 C130052G03Rik
A_51_P121228 Ascc2,ASC1p100,FLJ21588,1700011I11Rik,261003
A_51_P184282 Dld
A_51_P437549 Klhl20,Kleip,KIAA4210,MGC28950,mKIAA4210,D930
A_51_P110931 1700022C21Rik
A_51_P385043 Zfp74,KRAB8,Zfp66,mszf21,mszf77,2810054M15Rik
A_51_P476829 D930001I22Rik
A_51_P385054 Pak1,Paka,PAK-1
A_51_P234440 Catsper4,4933412L05
A_51_P385059 AK032589
A_51_P489522 Ctla2b,Ctla-2b
A_51_P103179 9330158F14Rik
A_51_P412768 Ccr3,CKR3,Cmkbr3,CC-CKR3,Cmkbr1I2
A_51_P330388 Slc6a17,Ntt4,D130012J15Rik
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A_51_P341540 Dnmt3b
A_51_P259603 Adcyap1r1,PAC1,PAC1R,PACAP1-R,2900024I10Rik
A_51_P437576 V1rh5
A_51_P215794 Abca8b,Abca8
A_51_P278163 Plcd3,2610205J15Rik
A_51_P385010 1110029E03Rik,mKIAA0258,F730001J03
A_51_P278175 NAP108516-1
A_51_P259631 Stk22s1,Tssks1
A_51_P259638 Fin15
A_51_P437538 LOC331392
A_51_P385030 Svs6,Svp6,MSVSP99
A_51_P498947 Loh12cr1,5830457J20Rik
A_51_P184223 Pcdhb7,PcdhbG,Pcdhb4B

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A_51_P476820 Calr3,Crt2,1700031L01Rik,6330586I20Rik
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A_51_P278103 Stambp,Amsh,KIAA4198,mKIAA4198,5330424L14Ri
A_51_P136888 Rb1,Rb,pRb,Rb-1
A_51_P250358 Prpf39,Srcs1,MGC37077
A_51_P220681 Aldoc,Aldo3
A_51_P498909 Olfr907,MOR165-5
A_51_P136848 5730599I05Rik,D030027P05
A_51_P441022 Smad3,Madh3
A_51_P503433 Ppap2b,Lpp3,Ppab2b,D4Bwg0538e,D4Bwg1535e,11
A_51_P122116 Olfr874,MOR161-2
A_51_P450812 Cog4,D8Erttd515e
A_51_P196862 1300019J08Rik
A_51_P483089 Hdac3
A_51_P250378 Slc30a1,Znt1,C130040I11Rik
A_51_P280657 0610040A22Rik
A_51_P122157 1700129I04Rik,D030069K18
A_51_P333034 Ier3ip1,1110057H19Rik
A_51_P101460 Dsp,DP,2300002E22Rik,5730453H04Rik
A_51_P250337 9830123M21Rik
A_51_P306608 4930553M18Rik,2810003M17Rik,5930426I11Rik
A_51_P101474 Trfr2,Tfr2
A_51_P196844 Osbp3,ORP3,OSBP3,MGC102333,A530055M08,12
A_51_P337883 AK048558
A_51_P136870 1200003E16Rik,Tanc,mKIAA1728
A_51_P306647 Arpc4,20kDa,p20-Arc,5330419I20Rik
A_51_P122170 Rdh7,CRAD2
A_51_P136803 Kif9
A_51_P325776 Csad,Csd
A_51_P122180 Zfp451,COASTER,mKIAA1702,Kiaa0576-hp,493051
A_51_P244792 Rgs17,Rgsz2,6430507P11Rik
A_51_P177261 9.83E+24
A_51_P450829 Slc6a8,CRT,CT1,CRTR,Creat
A_51_P483059 Dicer1,D12Erttd7e,mKIAA0928,1110006F08Rik
A_51_P136858 BC005705
A_51_P441080 AW555814,mKIAA0433,D330021B20
A_51_P136810 Ppp3r2
A_51_P159171 Irak2,IRAK-2,MGC102586,6330415L08Rik
A_51_P337856 Ubl7,2300004C15Rik
A_51_P369294 5330431N19Rik
A_51_P306658 Lsm8,2010003I05Rik
A_51_P136820 Psap,SGP-1
A_51_P467334 2210409M21Rik
A_51_P369106 Rab22a,Rab22,3732413A17Rik,E130120E14Rik

A_51_P333020 D030022P06Rik, SRCAP, 1700008J07Rik
A_51_P165135 Bclp2, Bclp1
A_51_P467224 Fbn1, Tsk, Fib-1, B430209H23
A_51_P503494 Arc, Arc3.1, arg 3.1
A_51_P175454 Cib1, Kip, Cibkip, Prkdcip
A_51_P306689 Rcor2, 1A13, Rcor, Rcor1, CoREST
A_51_P313674 Mmp12, Mmel
A_51_P369270 5830434P21Rik, mKIAA0515, D430039P21
A_51_P499854 Ghr, GHBP, GHR/BP
A_51_P128463 2810043G13Rik
A_51_P228817 Stau2
A_51_P128422 NAP057091-1
A_51_P196889 Ireb2, Irp2, D9Ertd85e
A_51_P203451 Top3a
A_51_P512072 Alad, Lv
A_51_P165111 Slco1a1, Oatp1, Slc21a1, A530084B21
A_51_P406650 1700024N20Rik
A_51_P203444 Ccnt2, 2900041118Rik
A_51_P294445 Cyhr1, Chrp, 1110031M01Rik
A_51_P330226 Polr3k, C11, RPC10, RPC11, 12.3kDa, 1500004O14Rik
A_51_P369252 4632434I11Rik
A_51_P337817 4933434E20Rik, NICE-3, NS5ATP4, 5730552F22Rik
A_51_P313635 Slc26a6, CFEX, Pat1, B930010B04Rik
A_51_P220543 4930431F12Rik
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A_51_P499838 Bst1, Bp3, BP-3, Ly65, Bsta1, CD157, 114/A10, A530073
A_51_P220570 4930525F21Rik
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A_51_P341066 Sla, Slap, Slap-1
A_51_P376501 4831403C07Rik, StARD9, mKIAA1300
A_51_P251308 Fbxw2, MD6, FBW2, Fwd2
A_51_P350311 Rarres2, 0610007L05Rik
A_51_P276305 Stra8
A_51_P425334 1700001F09Rik, MGC107255
A_51_P406671 Prkci, Pkci, Pkcl, Prkcl, KIAA4165, mKIAA4165, 2310021
A_51_P325789 Olfr1294, MOR248-7
A_51_P140263 Olfr655, MOR38-1
A_51_P276321 BC059842, MGC69654, 6430407N22
A_51_P234140 Cdkl1, 4933411O17Rik
A_51_P508485 4930403J22Rik, 5730419O14Rik
A_51_P184385 Pla2g12b, Fksg71, Pla2g13, 2010002E04Rik
A_51_P236324 Gtf2e1, FE, 56kDa, TFIIIE-A, 2610024P03Rik
A_51_P127367 Isgf3g, p48, Irf-9
A_51_P228883 Htatip2, CC3, 30kDa, TIP30
A_51_P165165 Hibadh, 6430402H10Rik
A_51_P220512 Dnchc2, DHC2, DHC1b, DYH1B, mKIAA1997, 4432416
A_51_P406604 BC006779, MGC63178
A_51_P127358 4933416I08Rik
A_51_P341041 2600005O03Rik, Dcc1, 2010006I05Rik
A_51_P228892 Pkd2l2
A_51_P369200 Tpx2, DIL2, p100, REPP86, 2610005B21Rik
A_51_P165156 Polr3c, RPC3, RPC62, 4933407E01Rik

A_51_P196895 2400003C14Rik,mKIAA0174
A_51_P385390 2010004O20Rik
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A_51_P455597 Mtif2,IF-2mt,2410112O06Rik
A_51_P425352 Jph4,JP-4,JPHL1,9330157P13Rik
A_51_P140211 1500032D16Rik
A_51_P110814 Nudt9,1190002C07Rik
A_51_P479914 Pik3cb,p110beta,1110001J02Rik
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A_51_P140207 1700029H14Rik
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A_51_P341025 Eif3s12,eIF3K,1200009C21Rik
A_51_P140237 Fhl2,SLIM3
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A_51_P385370 XM_147935
A_51_P379873 Lcn8,EP17,Lcn5,mEP17,9230106L18Rik
A_51_P127320 4931407G18Rik
A_51_P110841 Mrps35,MDSO23,MRPS28,MRP-S28,MGC28446
A_51_P184398 Ttbk1
A_51_P234113 Card4,Nod1,C230079P11,F830007N14Rik
A_51_P408382 Itgb4,CD104,C230078O20
A_51_P110873 Olfr1404,MOR267-2
A_51_P184300 Dtna,A0,Dtn,adbn,a-DB-1
A_51_P508402 Mical2,KIAA0750,mKIAA0750,5330438E18Rik
A_51_P184306 4930560E09Rik
A_51_P379837 Prss28,lsp1,misp-1
A_51_P408363 Pfc,BCFG
A_51_P184353 Nr2f6,EAR2,Erbal2,COUP-TF3
A_51_P197365 Bre,6030405P19Rik,B830038C02Rik
A_51_P184321 Scye1,Emap2,EMAPII
A_51_P489608 Klk12,KLK-L5,2310008B01Rik
A_51_P489604 7730401J12Rik
A_51_P512085 Colec12,SRCL,CL-P1,Scara4
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A_51_P161401 A130096K20
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A_51_P259571 Angptl6,AGF,ARP3,Arp5,6330404E11Rik
A_51_P278675 Ahnak,DY6,1110004P15Rik,2310047C17Rik
A_51_P184331 Scn3b,Scnb3,1110001K16Rik,4833414B02Rik
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A_51_P457840 Dchs1,FIB1,CDH25,Gm165,PCDH16,C130033F22R
A_51_P122238 Uchl5,Uch37,5830413B11Rik
A_51_P250422 Spry4,sprouty4,A030006O18Rik
A_51_P176681 Snrpd3,SMD3,1700043E15Rik,2310009E13Rik
A_51_P483180 Snx7,MGC107328,2510028H01Rik

A_51_P174921 Lrp2
A_51_P234185 Spred2
A_51_P280597 Anxa11,Anx11,A830099O17Rik
A_51_P484030 Limk1
A_51_P508444 St13,HIP,HOP,p48,SNC6,HSPABP,HSPABP1,PROC
A_51_P278653 Rprm,Reprimo,2410012A13Rik
A_51_P106779 Cctnbp2,ORF4,Cortbp2,6430526E05,4732477G22Ril
A_51_P520639 4732467B22
A_51_P503736 4921530G04Rik
A_51_P306705 Nup160,Gtl13,160kDa,Gtl-13,Gtl1-13,KIAA0197,mKl.
A_51_P408300 Olfr1151,MOR177-9
A_51_P489688 Olfr976,MOR224-10
A_51_P441120 Olfr351,MOR127-2
A_51_P194744 1500019C06Rik,Rint-1,2810450M21Rik
A_51_P420100 4921531G14Rik
A_51_P122246 5730592L21Rik
A_51_P367060 lfrd1,PC4,lfnl,Tis7
A_51_P306739 4930579K19Rik,MGC106620
A_51_P122268 B4galt6
A_51_P306731 4933408F15
A_51_P306710 Cldn15,2210009B08Rik
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A_51_P306770 5033417F24Rik,6330419D11Rik
A_51_P206856 AK045798
A_51_P260871 Sdhd,3110001M13Rik
A_51_P294161 4930422G04Rik
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A_51_P367040 1810035L17Rik
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A_51_P325254 1700052N19Rik
A_51_P503722 Elavl4,Hud,PNEM
A_51_P194740 V1rd9,V3R9
A_51_P206872 Olfr982,MOR223-4
A_51_P101347 AI427122
A_51_P503797 Lair1,Lair-1,mLair-1,D7Bwg0421e,5133400O11Rik
A_51_P137778 5730507C01Rik
A_51_P483130 B430315C20Rik,mKIAA0377
A_51_P325223 Lin7b,Veli2,LIN-7B,MALS-2
A_51_P274055 Rnf170,6720407G21Rik
A_51_P310715 AI854635,B230309J24
A_51_P206849 2210418O10Rik
A_51_P196726 Itih2,Intin2,Itih-2
A_51_P137749 AK088420
A_51_P137742 V1rg6
A_51_P433765 Dnahc3,Dnah3
A_51_P380260 Kif5b,KHC
A_51_P196718 TC947782
A_51_P367081 Pftk1,mKIAA0834
A_51_P483118 Hmga1,HMGY,Hmgi,Hmgij,Hmga1a,Hmga1b,HMGI

A_51_P306789 2810055G20Rik,D730043B02Rik
A_51_P122290 Prkcbp1,RACK7,ZMYND8,MGC25852,mKIAA1125,1
A_51_P369154 Sez6l2,Psk1,MGC19060,MGC90604
A_51_P413991 Frs2,SNT1,Frs2alpha,4732458E18,C330018A15Rik
A_51_P406115 Adam10,kuz,MADM,kuzbanian,1700031C13Rik
A_51_P413995 Zfp422-rs1,Krox-25-2,A430003O12Rik,C430039G02
A_51_P425010 Olfr1444,MOR202-4
A_51_P140368 2310061C15Rik,DC13,1110046L09Rik
A_51_P376454 Smad3,Madh3
A_51_P490840 Trim31,RNF,HCG1,HCGI,MGC37625
A_51_P206824 Hfe2,DL-M,Rgmc,2310035L15Rik,5230400G09Rik
A_51_P128526 Ptp4a1,Prl-1,MGC25304,MGC102117,C130021B01
A_51_P165475 C1galt1,T-synthase,2210410E06Rik
A_51_P101388 Slit1,Slil1,mKIAA0813
A_51_P206835 Large,fg,myd,froggy,Gylt1a,mKIAA0609
A_51_P434836 Klra16,Ly49P,Ly49x,Klra24
A_51_P128575 Scgb1a1,UG,UGB,Utg,CC10,CC16,CCSP,PCB-BP
A_51_P203547 4930488B01Rik
A_51_P376407 TC1042686
A_51_P444379 1200003E16Rik,Tanc,mKIAA1728
A_51_P165435 Cox4i1,Cox4,Cox4a
A_51_P196774 5430406M13Rik
A_51_P425071 C1qtnf3,Cors,CTRP3,Corcs,CORS-26,2310005P21F
A_51_P341379 Acad9,NPD002,4732402K02,2600017P15Rik,C6300
A_51_P203501 Vars2,G7a,Bat6,Bat-6,D17H6S56E
A_51_P140347 Slc4a9,AE4,D630003B07,D630024F24Rik
A_51_P490867 Enpp4,Gm90,MGC29265,4933413N07Rik
A_51_P395771 Golga1,MGC91089,golgin-97,0710001G09Rik,22104
A_51_P340027 Pappa,PAG1,PAPP-A,IGFBP-4ase,8430414N03Rik
A_51_P413965 Prkcn,MGC47171,4930557O20Rik,5730497N19Rik
A_51_P467268 Mak,A930010O05Rik
A_51_P476579 2.81E+17
A_51_P395743 4921517N04Rik
A_51_P490817 Me2,NAD-ME,D030040L20Rik
A_51_P165451 3110049J23Rik,Mawbp
A_51_P434859 Mllt4,AF6,Gm314,Afadin,l-afadin,S-afadin,5033403D
A_51_P325281 Al607873
A_51_P508580 Tcf15,Meso1,paraxis,bHLH-EC2
A_51_P140321 Mocos,MOS,HMCS,1110018O12Rik
A_51_P165424 Socs4,Socs7,3110032M18Rik,A730004F22Rik
A_51_P425048 H2-Q1,Q1b,Q1d,Q1k,Qa1,Qa-1,H-2Q1,Qed-1,MGCC
A_51_P406105 1110033J19Rik,MGC59460
A_51_P215530 Rnf180,3110001E11Rik
A_51_P341349 Mtap,MSAP,1300019I21Rik
A_51_P425047 SrpX2,SRP,SRPUL,1110039C07Rik
A_51_P140374 Rhbdl4,Vrho,Rhomr1,Ventrhoid
A_51_P455488 Ybx2,Msy2
A_51_P341306 Olfr100
A_51_P140331 1110028E10Rik
A_51_P412579 2310079P10Rik
A_51_P484274 NAP057143-1
A_51_P484279 Olfr239,MOR267-10

A_51_P444335 Acp6,ACPL1,mPACPL1,5730559A09Rik
A_51_P165408 Srcrb4d,109267,S4D-SRCRB,SrcRB-S4D,C330016
A_51_P341336 Bcl2l14,Bclg,4930452K23Rik,4933405K19Rik,90306
A_51_P479808 Mapk6,Erk3,Mapk4,Prkm4,Prkm6,Mapk63,D130053f
A_51_P484200 5730427C23Rik,FLJ00101,mFLJ00101
A_51_P444364 Pou4f3,ddl,Brn3c,Brn3.1,Brn-3.1,dreidel
A_51_P341369 Pqlc1,2310009N05Rik,4933425L21Rik,5730564E11f
A_51_P236464 Metap11,2310066F24Rik,3110033D18Rik
A_51_P140350 9130012B15Rik,Nadsyn1
A_51_P474806 Al428226
A_51_P489702 Zfp287,Skat2,SKAT-2,Znf287,mszf16,mszf74,B2303
A_51_P215559 BC021614,MGC37914
A_51_P220813 Gng2,82,1110003P13Rik
A_51_P458262 Ccl19,ELC,CKb11,MIP3B,Scya19,exodus-3
A_51_P341324 Actr10,Arp11,Actr11
A_51_P140311 Gnb2,Gnb-2
A_51_P479818 Rnf127,4932412G04Rik
A_51_P484254 Pcca
A_51_P413916 Pgrmc2,DG6,PMBP,4631434O19Rik
A_51_P215540 Rnf4
A_51_P379594 E330009J07Rik,mKIAA1147
A_51_P489720 Slc16a11,MNCb-2717
A_51_P479865 Glb1l,4833408P15Rik
A_51_P425080 Hdgf,D3ErtD299e
A_51_P406145 2310008M10Rik,5730557H03Rik
A_51_P437717 0610031J06Rik,NCU-G1
A_51_P412595 Eef1b2,Eef1b,2810017J07Rik
A_51_P244577 6430527G18Rik
A_51_P471987 2700078E11Rik,2810417M16Rik
A_51_P437707 Cldn18
A_51_P103757 Myst1,MOF,D7ErtD629e,2010203C02Rik,5830450F2
A_51_P444301 Brp44l,0610006G08Rik,3830411118Rik
A_51_P259407 Entpd6,Cd39l2,NTPDase-6,2700026H11Rik
A_51_P437737 Dhodh,2810417D19Rik
A_51_P517120 D10627
A_51_P467284 Mc3r
A_51_P508510 Notch1,Mis6,Tan1,lin-12,9930111A19Rik
A_51_P244565 Olfr62,H12,IH12,MOR258-5
A_51_P259445 1810062G17Rik
A_51_P244558 1110059F07Rik,mKIAA0839,5830469C09,2010002f
A_51_P220848 Catsper1,Catsper
A_51_P259415 1110020A09Rik,2210416J16Rik
A_51_P479886 4930589M24Rik,3110012E06Rik,4930438C08Rik
A_51_P330580 Mef2b
A_51_P234692 2310043N10Rik
A_51_P220852 5830411G16Rik,mKIAA0241,D730049P16Rik
A_51_P203597 Mrpl24,MGC7749,MGC25749,MGC38056,2010005E
A_51_P244531 6330403L08Rik
A_51_P441231 NAP057196-1
A_51_P161724 Ophn1,MGC6513,C130037N19Rik
A_51_P508530 Sprr1b
A_51_P121086 V1ra2,V1r2,V1RA9,mV1R2,V1ra11

A_51_P479894 Cpsf3
A_51_P452382 Stat6
A_51_P304819 Pnkp,PNK,1810009G08Rik
A_51_P250178 Olfr23,MTPCR50,MOR135-27
A_51_P367310 Chaf1b,CAF1,CAF1A,CAF1P60,CAF-lp60,MPHOSP
A_51_P122321 9230117N10Rik,NF-HEV
A_51_P278305 Golph4,P138,GIMPC,GPP130,MGC102202,3110027
A_51_P514139 Prdm16,mel1,KIAA1675,mKIAA1675,5730557K01Ril
A_51_P395856 Slc22a7,NLT,OAT2,MGC18877
A_51_P371856 E430025E21Rik,MGC31278,mKIAA0196
A_51_P244504 Oraov1,TAOS1,2210010N10Rik
A_51_P503247 lqcf5,1700007L12Rik
A_51_P325152 6720458F09Rik
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A_51_P379552 3110047P20Rik,KIAA1239,mKIAA1239,B830017A01
A_51_P174864 Rnf41,FLRF,D10ErtD722e,2210404G21Rik,4930511.
A_51_P250131 NAP057017-1
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A_51_P338485 Aldh6a1,MGC37325,1110038I05Rik
A_51_P441202 Otp
A_51_P371882 2600016J21Rik
A_51_P395877 Gpr2,CCR10,Cmkbr9
A_51_P441234 Pcdh10,mKIAA1400,6430521D13Rik,6430703F07Ri
A_51_P250123 1700065O13Rik
A_51_P137433 Kifc5a,MGC76666
A_51_P367343 G3bp,KIAA4115,mKIAA4115,B430204O07
A_51_P122373 BC009118,Cbr4,MGC6971,A730083J17Rik
A_51_P101635 Stub1,Chip,AW046544,0610033N24Rik,2210017D18
A_51_P371876 Prkcbp1,RACK7,ZMYND8,MGC25852,mKIAA1125,1
A_51_P520760 BE570772
A_51_P174840 Olfr196,MOR183-1
A_51_P325173 Tpm1,Tmpa,Tpm-1,alpha-TM
A_51_P196695 Il7r,CD127,MGC107557
A_51_P137419 Cst7,CMAP
A_51_P380309 Ncam1,CD56,Ncam,E-NCAM,NCAM-1,NCAM-120,N
A_51_P137413 Srpr,1300011P19Rik
A_51_P306066 Eif4g2,p97,Nat1,DAP-5,Natm1
A_51_P344263 Baalc,2810457D07Rik
A_51_P395842 1700034H14Rik,2700002I20Rik
A_51_P306031 A_51_P306031
A_51_P325135 Tes,TESS,Tes1,Tes2,testin2,D6ErtD352e
A_51_P152765 Stat5a,STAT5
A_51_P194658 Gk2,GKTA,Gk-rs2
A_51_P484195 Olfr38,18A,MOR257-2
A_51_P371867 3830417A13Rik
A_51_P325165 Il27,p28,Il30,IL-27
A_51_P174854 Maged1,NRAGE,Dlxin,Dlxin1,Dlxin-1,FLJ00163,mFL
A_51_P367366 5430439G14Rik,CHD6,6330406J24Rik
A_51_P122352 Ppm1h,ARHCL1,A430075L18Rik
A_51_P122356 Cdkn2d,p19,INK4d,p19INK4d
A_51_P371816 E330039G21Rik,Gm688
A_51_P503202 4930564D02Rik

A_51_P367395 D16H22S680E,T10
A_51_P306017 Dll1,Delta1
A_51_P152747 Nrip1,RIP140,9630050P12,6030458L20Rik,8430438
A_51_P101621 3526402H21Rik
A_51_P471940 Mrpl44,1810030E18Rik,5730593H20Rik
A_51_P244586 2810031P15Rik
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A_51_P196629 B430201A12Rik,1600010D10Rik
A_51_P294233 Nanog,ENK,2410002E02Rik
A_51_P294235 BC024561,Vcc1,VCC-1,MGC37641
A_51_P152784 Chd9,AD013,mKIAA0308,1810014J18Rik,9030205D
A_51_P141502 Cpsf5,25kDa,3110048P04Rik,5730530J16Rik
A_51_P441286 Ttc5,MGC38092,5930437N14
A_51_P520793 Nupl1,mKIAA0410,1700017F11Rik
A_51_P367381 Sod1,lpo1,SODC,lpo-1,Sod-1,CuZnSOD,Cu/Zn-SOD
A_51_P196605 Pink1,BRPK,mFLJ00387,1190006F07Rik
A_51_P380337 Arhgef3,1200004I24Rik,9830169H03Rik
A_51_P380330 Lcn6,9230101D24Rik
A_51_P371834 Olfr898,MOR170-3
A_51_P503297 A730012O14Rik
A_51_P227826 Vamp8,Edb,endobrevin
A_51_P413886 Olfr644,MOR13-1
A_51_P141521 2610304F09Rik,6720406D06
A_51_P297586 Birc6,Bruce,A430032G04Rik,A430040A19Rik,D630C
A_51_P152797 2810039B14Rik
A_51_P325124 Aph1b,Aph1c
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A_51_P413866 H2-Bf,B,Bf,FB
A_51_P196663 1810029C22Rik
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A_51_P137481 1700011J10Rik
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A_51_P165770 Srp72
A_51_P405227 Nradd,NRDD,PLAIDD,2610311B09Rik
A_51_P165704 Mcm7,Mcnd7,mCDC47
A_51_P406429 Pdk1,B830012B01,D530020C15Rik
A_51_P215438 Prodh,Pro1,Pro-1,Ym24d07
A_51_P234373 Trpc7,TRP7,Trpp8
A_51_P234371 Ror2,mRor2,Ntrkr2
A_51_P141580 Dpp10,DPRP3,6430601K09Rik
A_51_P155445 Abcb1a,Pgp,MDR3,P-gp,Pgy3,Abcb4,Mdr1a,Pgy-3,n
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A_51_P425175 Wsb2,Swip2,WSB-2
A_51_P467349 Trim62,6330414G21Rik
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A_51_P467346 Muc1,EMA,CD227,Muc-1
A_51_P203653 4930417M19Rik

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A_51_P490509 Bub1b,BUBR1,MGC36092
A_51_P413803 D530049N12Rik
A_51_P498890 Degs1,Degs,Des1,Mdes
A_51_P276155 Satb2,mKIAA1034
A_51_P176883 2700050L05Rik,MGC27934,MGC58090
A_51_P484158 Steap,Prss24,2410007B19Rik
A_51_P413853 B230339H12Rik
A_51_P406414 Hp1bp3,Hp1bp74,MGC28927
A_51_P437666 Zfp60,Mfg3,Mfg-3
A_51_P385178 Rpn2,Rpn-2,1300012C06Rik
A_51_P335509 Cul1
A_51_P437657 Nsep1,MSY1,Ybx1,mYB-1a
A_51_P498882 Cyp2c37
A_51_P358953 Zfa,Zfx
A_51_P335519 Slc22a12,Rst,OAT4L,URAT1,Slc22a2
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A_51_P176893 Tlr8
A_51_P412640 5730568A12Rik
A_51_P234330 Rtkn
A_51_P358940 Wbp2
A_51_P215475 Ptprb,Ptpz,RPTPB,VE-PTP,3230402H02Rik
A_51_P334942 Aldh1a1,E1,Ahd2,Ahd-2,Aldh1,Raldh1,Aldh1a2
A_51_P313803 2700019D07Rik,MGC107205
A_51_P276149 Olfr1030,MOR196-2
A_51_P278070 BE980334
A_51_P259378 Zfp313,Zfp228,Znf228,1110008J21Rik
A_51_P297579 Gch1,Gch,GTPCH,GTP-CH
A_51_P358908 U2af2,65kDa
A_51_P149906 Kif13a,KIAA4109,mKIAA4109,4930505I07Rik
A_51_P215489 Slc37a1,G3PP,MGC28167
A_51_P437608 Tulp3
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A_51_P334979 Apoc2
A_51_P269852 S100a13
A_51_P508602 Tcp10c,T66C-a,Tcp-10c,D17Leh66C,D17Leh66ca
A_51_P244892 Pias4,PIASY,Piasg,Pias-gamma
A_51_P278018 2210415M20Rik,1700010A24Rik,2810408E15Rik
A_51_P259318 Fbs1,Fbs
A_51_P215496 Rab18
A_51_P344301 Svil,B430302E16Rik
A_51_P399653 Crhr2,Crfr2,CRF-R2,CRFR2beta,CRFR2alpha
A_51_P330481 Lhx9,LH2B
A_51_P489003 Kcnt1,slo2,Slack,mKIAA1422,C030030G16Rik
A_51_P109840 Vtn,Vn
A_51_P503532 Olfr346,MOR136-11
A_51_P234397 4930447K03Rik
A_51_P412526 BC031575,KIAA0430,MGC36956,mKIAA0430
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A_51_P278034 2700038N03Rik,MGC107633,D5Ert655e
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A_51_P489034 Tmem16e,Gdd1,9330162L24
A_51_P152623 Mas1,Mas-1
A_51_P101545 Hgfac,HGFA
A_51_P457706 Ankrd5
A_51_P489086 BC053440,Gm174
A_51_P306160 Map3k13,LZK,1300002E11Rik,1500026P21Rik,C13C
A_51_P122471 Uap1,AgX,AGX1,AGX-1,AGX-2,SPAG2,ESTM38
A_51_P412508 Irx4
A_51_P471830 Catsper2
A_51_P101137 BC034054,AI854782,MGC31049
A_51_P152602 Oas1h
A_51_P175303 Tle2,Grg2,KIAA4188,mKIAA4188
A_51_P441377 Hist3h2a
A_51_P344376 Gpr162,A-2,Grca
A_51_P122425 Ctf1,CT-1
A_51_P457724 Olfr589,MOR32-3
A_51_P244810 9430028I06Rik,2010005E21Rik
A_51_P109881 4930506F14Rik
A_51_P196596 Trim2,narf
A_51_P196590 Hadhsc,Hadh
A_51_P306109 Lif
A_51_P137150 Dhx8,Ddx8,mDEAH6,KIAA4096,MGC31290,mKIAA4
A_51_P152612 Nol7,NOP27,RARG-1,2210008F15Rik,5730556I21R
A_51_P489092 9430007A20Rik,Gm1034
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A_51_P161225 Ddx46,MGC31579,MGC116676,2200005K02Rik
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A_51_P441312 3110053B16Rik
A_51_P457759 Olfr1426,MOR239-1
A_51_P369392 Hspa1b
A_51_P380013 Bcl2,Bcl-2,C430015F12Rik,D630044D05Rik,D83001
A_51_P137168 Smarcal1,Mharp,6030401P21Rik
A_51_P280766 B230363K08Rik,A230051F10
A_51_P101506 Hif3a,lpas,MOP7
A_51_P457747 Krt1-16,K16
A_51_P244879 AB041806
A_51_P306129 Elmo1,CED-12,KIAA0281,mKIAA0281,6330578D22F
A_51_P164014 Cenpe,Kif10,312kDa,CENP-E,C530022J18
A_51_P227970 Dncl2b,DNLC2B,1700009A04Rik
A_51_P297480 Dph2l1,Ovca1,2310011M22Rik,4930488F09Rik
A_51_P161284 Irebf1,IREBF-1
A_51_P457775 Evi5,NB4S
A_51_P152685 E330039K12Rik,Pcnxl2,KIAA0435,mKIAA0435,A83C
A_51_P380078 A430096B05Rik
A_51_P503543 Zfp414,MGC49274,0610030H11Rik
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A_51_P227999 Cst10,DD72

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A_51_P244856 Atp2a1,SERCA1
A_51_P380069 Hctr2,OX2R,mOXR2,mOX2aR,mOX2bR
A_51_P238852 B3bp,Gm868,N4bp2,Gm1791,E430014116
A_51_P137111 Chek2,CHK2,Cds1,Rad53,HUCDS1
A_51_P196514 Gdi2
A_51_P203768 A930005C09Rik
A_51_P306183 Mafk,NF-E2,Nfe2u
A_51_P253502 Cnga1,Cncg
A_51_P227929 BC062951,Gm1044,MGC86039
A_51_P132685 Akp5,EAP,D1Ert816e
A_51_P395519 A_51_P395519
A_51_P380057 Dip2,mKIAA0184,Kiaa0184-hp,4931420H10Rik
A_51_P425642 Grasp,tamalin
A_51_P137125 Mybph,MyBP-H
A_51_P122481 1700010L04Rik
A_51_P276203 Nalp9c,Nalp-zeta
A_51_P253547 Ctsl,fs,MEP,nkt,1190035F06Rik
A_51_P476767 Nnmt
A_51_P369311 Nox4
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A_51_P101588 Thsd6,MGC41037,2010109H09Rik
A_51_P350048 Gstt2,Yrs,mGSTT2
A_51_P253527 1700051E09Rik,4930516L10Rik
A_51_P341177 Ddah2,G6a,Ddah,NG30,1110003M04Rik
A_51_P477692 Fa2h,FAAH,Faxdc1,G630055L08Rik
A_51_P297498 Sln,2310045A07Rik
A_51_P406734 St8sia5,Siat8e,ST8SiaV,MGC41119
A_51_P425632 Mad211bp,CMT2A,CMT2B,Mad21bp,KIAA0110,mKIA
A_51_P276223 V1rc20
A_51_P203706 B130055D15Rik,mKIAA0056,2810487N22Rik,46324
A_51_P341130 Iqgap1,mKIAA0051,D7Ert237e,D7Ert257e
A_51_P341137 Trerf1,RAPA,Trep132,Trep-132,B830015H24,94300
A_51_P228962 Slc5a4b,SAAT1,pSGLT2,SGLT3-b,2010104G07Rik
A_51_P215356 9430063L05Rik,mKIAA0454,4732458A06Rik
A_51_P215353 4632425D07Rik,3230401P16
A_51_P341169 Klf13,Bteb3,FKLF2,NSLP1,FKLF-2,RFLAT1,RFLAT-
A_51_P137184 1700029J11Rik
A_51_P137188 V1rc10
A_51_P476757 Al324046,MGC68300
A_51_P483589 Zcwcc1,8430403M08Rik
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A_51_P227918 Taf6l,PAF65A,MGC41377,2810417N14Rik,C530024
A_51_P395546 Phldb1,Li5a,MGC32394,D330037A14Rik
A_51_P397783 Anubl1
A_51_P358840 Veph1,Veph,2810471M23Rik
A_51_P203710 Tbn,Taf8
A_51_P484419 Uxt,0910002B17Rik
A_51_P234044 1190005I06Rik

A_51_P471312 Kcnb2,Kv2.2,9630047L19Rik
A_51_P508781 Vmd2,BMD,mBest1
A_51_P320114 Grcc10,C10,2310033H05Rik
A_51_P320125 Wasf3,Scar3,Wave3
A_51_P350005 Il17c,IL-17C
A_51_P227866 D2Bwg1356e,mKIAA1162,2810417D04Rik,4930500I
A_51_P330701 Zfp341,Znf341,MGC73471
A_51_P358825 Nalp10,PAN5,Pynod,Napl10,6430548I20Rik
A_51_P259245 Ebf3,O/E-2,KIAA4201,mKIAA4201
A_51_P297441 Plcz1,PLCzeta,1700041H07Rik
A_51_P412338 Vps41,Vam2,mVam2
A_51_P297447 A630028O16Rik
A_51_P215324 Tfb1m,MGC41387
A_51_P358872 Disc1
A_51_P259296 Lpl
A_51_P484407 Wdr37,mKIAA0982,6430603N07,3110035P10Rik,49
A_51_P320137 BC003332,MGC7160,A930012H20,B930086F11Rik
A_51_P412305 2900074J03Rik
A_51_P471362 BC038613,MGC47347
A_51_P227845 4930502E18Rik
A_51_P379783 4930444P10Rik
A_51_P489153 Crot,1200003H03Rik
A_51_P334804 Pnpla5,GS2L,4833426H19Rik
A_51_P127858 Dnase1l2,4733401H14Rik
A_51_P425696 Nt5c2,GMP,NT5B,PNT5,cN-II,2010002I23Rik
A_51_P330717 Spop,TEF2,Pcif1
A_51_P297434 Sox11,end1,1110038H03Rik,6230403H02Rik
A_51_P144249 Ubr1
A_51_P259259 Olfr1090,MOR188-4
A_51_P259201 Olfr1123,MOR264-17
A_51_P411286 NAP057058-1
A_51_P121607 4930546C10Rik
A_51_P489108 Wdr19,PWDMP,C330027H04Rik,D330023L08Rik
A_51_P234025 Rbm5,D030069N10Rik
A_51_P489107 Plekha2,TAPP2,6430512N22Rik
A_51_P334876 Accn1,BNC1,Mdeg,ACIC2,ASIC2,BNaC1a
A_51_P127841 Tprt,TPT,2610203G20Rik,2700031G06Rik
A_51_P111143 Sep15,15kDa,9430015P09Rik
A_51_P127800 2410024A21Rik,KIAA4067,mKIAA4067
A_51_P254553 Dncl2a,DNLC2A,2010012N15Rik,2010320M17Rik,94
A_51_P259214 Slc39a6,Ermelin
A_51_P227806 AK053947
A_51_P187814 4933436I01Rik
A_51_P111192 Cyp2d10,Cyp2d,P450-2D
A_51_P412391 Chst4,GST-3
A_51_P144285 Rps6kc1,RPK118,B130003F20Rik
A_51_P320190 1500031N24Rik
A_51_P111164 Rnd1,Arhs,A830014L09Rik
A_51_P441451 A430097D04Rik,Gm304,D15Bwg0759e
A_51_P344018 Klra13,Ly49M
A_51_P350996 Zfp358,Zfend
A_51_P379710 Rpn1,Rpn-1,D6Wsu137e

A_51_P259230 Nup35,MP44,NO44,35kDa,2310006I24Rik,5330402E
A_51_P344008 Slc25a20,Cact,mCAC,1110007P09Rik
A_51_P489138 LOC383567,KIAA4219,mKIAA4219
A_51_P458130 Tph1,Tph
A_51_P350976 Krtap6-2,HGTpII.4
A_51_P233320 2610203C22Rik,2310007M24Rik
A_51_P325374 Papd4,8030446C20Rik
A_51_P294095 Prkar1a,Tse1,Tse-1,Rlalpha,1300018C22Rik
A_51_P379775 Nrm
A_51_P441469 Jmy
A_51_P470304 Nkx1-2,Sax1,Nkx-1.1,Nkx-1.2
A_51_P350962 EII3,MGC31450,A930015D22Rik
A_51_P306269 ENSMUST00000056062
A_51_P367125 Pold1,125kDa
A_51_P498720 Cacna2d1,Cacna2,Cchl2a
A_51_P508770 Mmp17,MT4-MMP
A_51_P233308 6330416L07Rik
A_51_P470311 Pgea1,CBY,arb1,PGEA14,1110014P06Rik
A_51_P498772 1700019D03Rik,MGC58779,2410136C24Rik
A_51_P367150 Zfp295,Znf295,mKIAA1227,5430437K12Rik,B43021:
A_51_P497985 C2
A_51_P379750 Myoz1,FATZ,Myoz,2310001N11Rik
A_51_P470328 Sepp1,Se-P,selp,D15Ucla1
A_51_P233338 Olfr46,IB7,IF5,ID12,MOR253-8
A_51_P233334 Stc1,Stc
A_51_P317225 Cklfsf2a,C32,Cklf,ARR19,CKLF3,CKLF4,CKLF5,Cklf
A_51_P351523 Jph1,JP1,JP-1
A_51_P306247 C130076O07Rik,NrCAM,mKIAA0343,C030017F07R
A_51_P152532 Rkhd3
A_51_P367100 Itih3,Intin3,Itih-3
A_51_P325333 Zfp109
A_51_P503026 Ttc10,fxo,orpk,IFT88,Tg737,flexo,polaris,Tg737Rpw,
A_51_P294059 Gpr81
A_51_P262616 4930505D03Rik
A_51_P380101 Tpte,Pten2
A_51_P306229 Ipo7,Imp7,Ranbp7,C330016G14,A330055O14Rik
A_51_P441426 Cxcl4,Pf4,Scyb4
A_51_P269997 Tmed7,TRAM,3930401E15Rik,5830493P14Rik
A_51_P285844 Usf2,MGC91056
A_51_P137611 Card14,Bimp2,CARMA2
A_51_P194004 6230410P16Rik,C430006L12
A_51_P497993 Gpr155,PGR22,DEPDC3,1110017O10Rik,F730029F
A_51_P489192 Postn,PN,Os2,OSF-2,Periostin
A_51_P457617 Txndc8,Trx6,Sptrx3,Sptrx-3,4930429J24Rik
A_51_P306215 3100002H09Rik
A_51_P380165 Ep400,p400,mDomino,mKIAA1498,1700020J09Rik
A_51_P152578 Usp24
A_51_P351562 1700029F09Rik
A_51_P520552 Pnlip,PTL,MGC74173,1810007A24Rik
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A_51_P310447 2310066E14Rik,MGC100216
A_51_P122535 Epb4.2

A_51_P477179 Sirt3,Sir2l3,2310003L23Rik
A_51_P233364 NAP108602-1
A_51_P122582 E330036I19Rik,MGC27690
A_51_P391542 Psma3,Lmpc8
A_51_P457651 Polq,A430110D14Rik
A_51_P325318 Tde2l,TDE2,FKSG84,2310004K20Rik
A_51_P137604 Fcna,Fcn1
A_51_P503004 Cpne7
A_51_P294017 AW046014,TRIF,TICAM-1
A_51_P152585 Xpnpep2,mAPP,9030008G12Rik
A_51_P137640 2610005D18Rik
A_51_P351598 A130070M06
A_51_P362627 Tnnt1,Tnt,sTnT
A_51_P262670 Rnpc1,Seb4,Seb4l
A_51_P261835 1110002H13Rik
A_51_P262645 Npc1l1
A_51_P380178 Id3,ldb3,HLH462
A_51_P441494 Ddc8
A_51_P276753 Ferd3l,Nato,fer3,Nato3,Mnato3,Ntwist,N-twist
A_51_P220993 Pfn1,Pfn
A_51_P141700 1700034J05Rik
A_51_P274716 Bfsp2,CP49
A_51_P490795 Mad
A_51_P333441 AK048034
A_51_P262699 Cpb2,CPR,Cpu,TAFI,MGC107573,1110032P04Rik,4
A_51_P253426 Olfr494,MOR204-10
A_51_P203880 D330023I21Rik,MGC47195
A_51_P519811 Sult1c1,Stp2,(PST)G,P-SULT,mOLFST,Sult1a2
A_51_P395656 6430702L21Rik
A_51_P262662 Arfrp1,MGC6837,1500006I01Rik
A_51_P425768 2610301B20Rik
A_51_P196444 Foxc2,Mfh1,Fkh14,MFH-1,Hfhbf3
A_51_P276766 Adra1b,[a]1b
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A_51_P132978 Idh1,IDPc,ld-1,ldh-1,MGC115782,E030024J03Rik
A_51_P276777 4930406H16Rik
A_51_P215038 5330410G16Rik
A_51_P137688 E330005K07Rik
A_51_P412438 Sfmbt2
A_51_P425772 Ckb,B-CK,Ck-3
A_51_P306287 Slc30a2
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A_51_P484378 AW456874
A_51_P396978 Kcnip4,Calp,KChIP4,Calp250
A_51_P425737 Tbc1d7,2610009C09Rik
A_51_P155675 Sel1h,KIAA4137,mKIAA4137
A_51_P112796 Il1f5,IL-1H3,IL1HY1,FIL1delta
A_51_P141741 Thea,BFIT,BFIT1,Them1,MGC25974,mKIAA0707,11
A_51_P484311 Tcf2,Tcf-2,vHNF1,Hnf1beta,HNF-1Beta

A_51_P215275 Hmx2,Nkx5-2,Nkx-5.2,MGC32455
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A_51_P215217 4933417K04Rik,NYD-SP28
A_51_P314679 Rrn3,E130302O19Rik
A_51_P437897 0610009B22Rik
A_51_P259181 1110061O04Rik
A_51_P259186 4930418G15Rik,1700011J18Rik
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A_51_P396917 Zfyve21,1110013H04Rik
A_51_P376912 A230106D06Rik
A_51_P412468 Slc4a11
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A_51_P489242 Rasgef1c,9130006A14Rik
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A_51_P297771 Pcgf6,MBLR,Rnf134,MGC106622,4933407A11Rik
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A_51_P215190 2610021K21Rik,2610110A13Rik
A_51_P276787 1700018B24Rik
A_51_P489229 Eif3s4,p44,44kDa,D0Jmb4,TU-189B2,eIF3-p44
A_51_P397426 Timm8b,Tim8b
A_51_P437802 AK037643
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A_51_P452207 Smad5,Dwf-C,Madh5,MusMLP,1110051M15Rik
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A_51_P335702 4930511J11Rik
A_51_P517012 Tysnd1,1300019N10Rik
A_51_P106859 Lsm10
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A_51_P278266 C730027E14Rik,MGC37941
A_51_P203878 6720463E02Rik,Dlc2,1700064A15Rik
A_51_P320281 Irx2,IRX6,MGC103290
A_51_P483231 Jak2,Fd17
A_51_P497875 Hormad1,Nohma,4921522K05Rik
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A_51_P327469 Rps13,MGC102403,2700063M04Rik
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A_51_P367477 Lphn3,LEC3,CIRL-3,MGC99439,mKIAA0768,54304C
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A_51_P122660 Liph,Lpdlr,PLA1B,mPA-PLA1,D16Wsu119e,C130037
A_51_P437847 Kctd1,4933402K10Rik
A_51_P278214 Zfp306,Skz1,Zfp307,mszf35,2810435N07Rik
A_51_P259118 Klhl1,KIAA1490,mKIAA1490
A_51_P344103 Rplp0
A_51_P358722 Lancl3,6030463G20Rik
A_51_P261991 Bdnf
A_51_P350843 Crkl,Crkl,1110025F07Rik
A_51_P358765 Spp1,OP,Bsp,Eta,Opn,Ric,BNSP,BSPI,Opnl,Apl-1,E
A_51_P380699 Acsl6,LACS,Facl6,Lacsl,MGC36650,mKIAA0837,A3
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A_51_P380685 Stoml2,MSLP2,0610038F01Rik
A_51_P503352 D6Mm5e
A_51_P327451 Alas2,ALAS,Alas-2
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A_51_P152463 Adam26,Dtgn4
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A_51_P101729 Cfh,NOM,Sas1,Mud-1,Sas-1

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A_51_P514267 Atp6v1g3
A_51_P380650 Apob
A_51_P233267 5730496F10Rik
A_51_P350853 Cx3cr1
A_51_P441585 V1ra9,VN7
A_51_P137317 Trit1,IPT,MOD5,2310075G14Rik
A_51_P280519 1110031I02Rik
A_51_P351697 Mrpl35,1110066C01Rik
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A_51_P350817 Cnn1,CN,Cnnl
A_51_P514270 2900072M03Rik
A_51_P152479 4932415G12Rik
A_51_P137336 Cdh1,Um,UVO,Ecad,E-cadherin,uvomorulin
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A_51_P196353 Snaip,SYPH1,2810407O15Rik,4933427B05Rik
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A_51_P376883 1700019E19Rik
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A_51_P506201 Cckbr,CCK2R
A_51_P215077 Mgst3,GST-III,2010012L10Rik,2010306B17Rik,2700
A_51_P484698 Aipl1,MGC25485,A930007I01Rik
A_51_P170619 Ddx54,DP97,2410015A15Rik
A_51_P484691 0610038F07Rik,MGC61338
A_51_P395309 Klk5,mGK-5,Klk1b5
A_51_P406557 Al464131,Gm762
A_51_P148814 Ly6e,9804,Ly67,Tsa1,RIG-E,Sca-2,TSA-1
A_51_P306387 Klra18,Ly49r
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A_51_P276039 2310047H23Rik,UNQ335,C5orf14
A_51_P253732 2810004A10Rik
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A_51_P320304 Plod1,LH1,Plod,2410042F05Rik
A_51_P215147 Carf,Als2cr8
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A_51_P412160 Rhbdl6,4732465117Rik
A_51_P425401 Kif27,4930517I18Rik
A_51_P101787 Hapl1,LP,Crtl1,Crtl1l
A_51_P148838 Ugcgl1,0910001L17Rik,A930007H10Rik,C820010PC
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A_51_P425439 Scyl2,D10Ert802e
A_51_P484679 Synj1,mKIAA0910
A_51_P114854 Clns1a,Clci,ICLN,Clcni,2610036D06Rik,2610100O04
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A_51_P111335 XM_138403
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A_51_P276063 Phyh,PAHX,Lnap1
A_51_P215157 1010001D01Rik,Tsap6
A_51_P276051 A930021H16Rik,FLJ00139,mFLJ00139
A_51_P358683 Ebi2
A_51_P406527 Kcnd2,Kv4.2,mKIAA1044
A_51_P253752 B130050I23Rik,EVI5L,MGC29047,1700084G18Rik,2
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A_51_P285997 Dhx32,Ddx32,3110079L04Rik,4732469F02Rik
A_51_P513720 Cdkn2c,p18,INK4c,INK4d,p18INK4c
A_51_P412109 Zfp318,TZF,2610034E08Rik,D530032D06Rik
A_51_P458384 Slc38a2,ATA2,SAT2,mKIAA1382,5033402L14Rik
A_51_P276094 mszf85
A_51_P320377 Gtf2a2,12kDa,Tfllg
A_51_P187697 8430406I07Rik
A_51_P274488 Pcdh8,Papc,1700080P15Rik
A_51_P259064 Ube2d3,1100001F19Rik,9430029A22Rik
A_51_P490456 Cidec,Fsp27,CIDE-3
A_51_P320340 Rds,RP7,Rd2,AVMD,PRPH,Rd-2,AOFMD,Prph2,Tsp
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A_51_P240993 4930503E24Rik
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A_51_P397176 4833432M17Rik,Gm105,Gm984
A_51_P242414 D15Mit260,260,D15N2e,MIRab13,EST573322,EST8
A_51_P376857 Det1,2610034H20Rik
A_51_P297679 Hcls1,HS1
A_51_P114817 Ccna1
A_51_P508191 Dscr3,Dcra,MGC5833
A_51_P506297 Cst9,M12,crep,testatin
A_51_P297647 Sh3glb2,mKIAA1848
A_51_P121466 Map3k7ip1,Tab1,2310012M03Rik
A_51_P144417 R3hdm
A_51_P508159 Cyp11b2,Cpn2,Cyp11b,Cyp11b-2
A_51_P489337 Becn1,MGC6843,4921513J16Rik,5430417M23Rik
A_51_P109933 Tekt2,tektin-t
A_51_P259009 Cacnb3,Beta3,Cchb3

A_51_P458338 Prlpn,PLP-N,1600014J19Rik
A_51_P330918 Habp2
A_51_P244993 5830461H18Rik
A_51_P513764 lqcf4,1700042N06Rik
A_51_P314774 5430405G24Rik,mKIAA0553
A_51_P358604 Olfr1045,MOR185-2
A_51_P396883 Gabrg1,GabaA,GabaA/BZ
A_51_P203955 Gbp2
A_51_P109939 Apoa1bp,AIBP,AI-BP,ESTM37,Apoa1ip
A_51_P489313 Sri,Sor,2210417O06Rik
A_51_P197038 9130023F12Rik
A_51_P335460 Scin,adseverin
A_51_P242446 Zfp31,MGC30798,C130001F22
A_51_P412191 Ppp3cb,Calnb,CnAbeta,1110063J16Rik
A_51_P122769 Nfyb,Cbf-A
A_51_P367752 4921536K21Rik
A_51_P491904 C330002I19Rik,Kidins220,mKIAA1250,3110039L19F
A_51_P513785 Ctcf
A_51_P406583 Myo1e,myr 3,myosin-1e,2310020N23Rik,9130023P1
A_51_P234299 5830472M02Rik,3110080A02Rik
A_51_P187632 1700010H15Rik,E330027P08Rik
A_51_P508115 Lba1,Gm187,A230061D21Rik,C030048J01Rik
A_51_P388298 1810037K07Rik
A_51_P335480 1810055G02Rik
A_51_P367772 Papd1,0610027A18Rik
A_51_P379171 Cobll1
A_51_P122740 Slc37a3,2610507O21Rik
A_51_P358633 Melk,MPK38,mKIAA0175
A_51_P106900 Rax,Rx,ey1,ey-1,7530406A22Rik,E130303K03Rik
A_51_P431433 Tmem2,MGC102198,mKIAA1412,3110012M15Rik
A_51_P109923 Rabgef1,Rin2,Rab5ef,Rabex5
A_51_P111380 frataxin
A_51_P330940 Lamc3
A_51_P175212 NAP108522-1
A_51_P187612 D15Wsu75e
A_51_P344636 Olfr476,MOR204-3
A_51_P122707 Ldoc1,Gm366,Mart7
A_51_P380743 Lrpprc,LSFC,GP130,Lrp130,3110001K13Rik
A_51_P441622 Adcy7
A_51_P367763 Peli2
A_51_P344626 4930432E11Rik
A_51_P161315 4930448F12Rik
A_51_P233101 Ltbp3,Ltbp2
A_51_P351351 AU040320,A730047D20Rik
A_51_P187625 Cabp2
A_51_P122723 Grpel1,MGC8152,mt-GrpE#1,mt-Grpel1
A_51_P441643 Olfr267,MOR262-1
A_51_P187645 lgh-VJ558,MGC6727
A_51_P380750 Cbfa2t3h,ETO-2,MTGR2,A630044F12Rik
A_51_P118188 Lmo3,Rbtn3,Rbtn-3
A_51_P233145 Ssty2,pc11,MGC107175,1700029H17Rik
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A_51_P161335 Ssty1,Smy,Ssty
A_51_P457430 Adck5,MGC69569,A230108P17
A_51_P233160 2210402C18Rik
A_51_P175229 Fbxl18,C330021B20Rik
A_51_P367734 Plcl1
A_51_P470154 Kif21a,mKIAA1708
A_51_P262401 Itga6,Cd49f,5033401O05Rik
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A_51_P175262 Pdgfb,Sis,PDGF-B
A_51_P420841 R75581
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A_51_P262410 4833421G17Rik
A_51_P457446 Prodh2,POX1,MmPOX,MmPOX1,2510028N04Rik,2f
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A_51_P380709 Dok5,2700055C10Rik
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A_51_P367720 Clu,Cli,ApoJ,Sgp2,SP-40,Sgp-2,Sugp-2,D14Ucla3
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A_51_P148959 Dhx36,Ddx36,mKIAA1488,2810407E23Rik
A_51_P295663 1700123L14Rik
A_51_P420810 Ndn,Peg6
A_51_P196260 A830006F12Rik
A_51_P196269 Zcwcc1,8430403M08Rik
A_51_P137007 Zw10,MmZw10,6330566F14Rik
A_51_P274992 Nola1,GAR1,C430047J18Rik
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A_51_P118103 4932442K08Rik,MGC109687
A_51_P351394 Vps45,mVps45
A_51_P399959 2700087H15Rik
A_51_P395405 Kihl5,1300013C10Rik
A_51_P441687 Lrrc10,Hrlrrp,MGC107614,D330003I11Rik
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A_51_P520397 1700047I17Rik,C14orf24,D730001C10Rik
A_51_P196207 Capsl,MGC74120,1700028N11Rik
A_51_P148902 Serpinb13,HUR7,PI13,HURPIN,headpin,5430417G2
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A_51_P484599 1700020C07Rik
A_51_P196226 2700049A03Rik
A_51_P506328 Cyp2j6
A_51_P262489 Sst,SS,SOM,SRIF,Smst
A_51_P285651 Cdkn3,2410006H10Rik
A_51_P514584 1700021K02Rik,Titest,Spatial
A_51_P484551 Slc27a2,VLCS,Vlac,FATP2,Vlacs,ACSVL1
A_51_P196213 Olf978,MOR223-3

A_51_P297185 Dlgh2,PSD93,Gm1197,A330103J02Rik,B330007M19
A_51_P484559 1700011I03Rik,4930583I06Rik
A_51_P399945 Hpvc2,Q300
A_51_P276560 Ccl28,MEC,CCK1,Scya28
A_51_P351384 Upk2,UPII
A_51_P137094 Sall2,Msal-2,mKIAA0360,p150(Sal2)
A_51_P506309 Hrg,HPRG,HRGP,D16JH2,D18020
A_51_P395454 Abpb,C2a,Scgb2b5
A_51_P140887 Insm1,IA-1
A_51_P320444 Rock2,Rock-II,mKIAA0619,B230113H15Rik
A_51_P412270 Rapgef6,Ragef2,Pdzgef2,KIAA4052,PDZ-GEF2,RA-1
A_51_P253642 Eif2ak3,PEK,perk
A_51_P274907 4930404L01Rik
A_51_P297165 Sf3a3
A_51_P484537 Smc2l1,CAPE,CAP-E,Fin16,5730502P04Rik
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A_51_P320401 Rab24,6530406O07Rik
A_51_P406835 Mei1,4932408F18Rik
A_51_P130332 Hspa12b,2700081N06Rik
A_51_P490148 Nphp4,4930564O18Rik
A_51_P253652 A830012C17Rik
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A_51_P118168 Zfp297b,mKIAA0414,1700010E06Rik
A_51_P484510 Nek3
A_51_P479390 XM_204236
A_51_P335146 H60
A_51_P377342 Pscdbp,Cbp,CYTIP,tamalin,A130053M09Rik
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A_51_P282947 Dhrr3,Rsdr1,retSDR1
A_51_P111003 4921524J17Rik
A_51_P458080 Osbp2,Gm244,ORP-4,OSBPL1,1700095P05Rik,C63
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A_51_P314669 Pnliprp2,PLRP2
A_51_P335169 Hoxa3,Mo-10,Hox-1.5
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A_51_P508289 Ephx1,Eph1,Eph-1
A_51_P130374 Tek,Hyk,Tie2,Cd202b
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A_51_P412225 Tbc1d16,Tcd1d16,B930087K01
A_51_P253697 2400006N03Rik
A_51_P449824 4933417E01Rik
A_51_P344741 AI843190
A_51_P406846 9530066K23Rik
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A_51_P140803 Slco1b2,OATP2,Oatp4,Ist-1,OATP-C,mlst-1,Slc21a6
A_51_P335112 Upf2
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A_51_P377390 Ndst2,Mndns,NDST-2
A_51_P479304 Gpm6a,M6A,Gpm6,MGC38999
A_51_P225484 Dspg3,PG-Lb,SLRR3B,epiphycan
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A_51_P458032 2810009O15Rik,4930415G15Rik
A_51_P335138 Lrfrn1,MGC7599
A_51_P111068 Olfr478,MOR204-13
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A_51_P344752 Sh3bgrl3,1110004L05Rik
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A_51_P517608 2010106E10Rik
A_51_P269434 Rab14,0610030G24Rik,2810475J17Rik,A830021G0
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A_51_P175736 Yif1,54TM,Yif1p,5330422J23Rik
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A_51_P470228 BC008150
A_51_P233018 Olfr601,MOR24-3
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A_51_P322022 Hspb6
A_51_P503131 Wnt11
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A_51_P470258 Caskin1,mKIAA1306,C130061I24,3300002N10Rik,C
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A_51_P233059 Ktn1
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A_51_P299309 6330583M11Rik
A_51_P351467 LipI2,MGC67675,9930115F20
A_51_P152216 Tmem41a,2900010K02Rik,5730578N08Rik
A_51_P395193 Htr2a,Htr2,Htr-2,E030013E04
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A_51_P241645 BC030440,MGC40914
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A_51_P470242 Rasl2-9,M2,Ran,Ran/M2
A_51_P457306 Tmprss2,MGC6821,D16Erttd61e
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A_51_P380401 2310051N18Rik,D530030H10Rik
A_51_P182876 Krtap6-1,HGTpII.1,HGTpII.2,1110025L11Rik
A_51_P152234 Trip4,ASC-1,4930558E03Rik
A_51_P134844 Snx5,D2Erttd52e,0910001N05Rik,1810032P22Rik
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A_51_P262721 0610009L18Rik
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A_51_P122825 Ogdh,KIAA4192,mKIAA4192,2210403E04Rik,22104
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A_51_P228916 Pabpn1,PAB2,Pabp3,mPABII
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A_51_P299357 Btbd14a,0610020I02Rik,C030048H19Rik
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A_51_P490692 4933402L21Rik
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A_51_P441782 Efha1,Smhs2,1110008L20Rik,4833427E09Rik
A_51_P196158 Btd
A_51_P285725 T,Lr,T1,Low,TI2,TI3,cou,me75
A_51_P164459 Clps,2200003J09Rik
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A_51_P101955 Lta4h
A_51_P205728 Olfr1496,MOR127-1
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A_51_P385697 Mgat3,GnT-III,1110038J12Rik
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A_51_P513504 Gosr1,GS28,GOSRI,GOS-28
A_51_P314517 D17Ert288e,NG28,0610013D04Rik
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A_51_P490678 Trim68,SS-56,Rnf137,F730114J12Rik
A_51_P269580 Spata16,Nyd-sp12,4921511F01Rik,4930503K02Rik
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A_51_P130233 V1rg2
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A_51_P111544 Srp14,14kDa
A_51_P140964 Olfr1360,MOR256-10,MOR256-35
A_51_P140901 Pmm2
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A_51_P297011 Prcp,PCP,HUMPCP,2510048K03Rik,2610104A14Ri
A_51_P130282 4930573I19Rik,mKIAA0297
A_51_P458584 Fpr-rs3
A_51_P464600 Emilin3,Emilin5,EMILIN-T,1110013O17Rik
A_51_P187491 Epgn,epigen,2310069M11Rik

A_51_P130254 4931420C21Rik,D430018P08
A_51_P508349 Cdc16,2810431D22Rik
A_51_P513541 Rfk,KOI-4,0610038L10Rik
A_51_P388002 Snrpb2,2810052G09Rik
A_51_P274685 Dus1l,1110032N12Rik
A_51_P358423 Usp53,Sp6,Phxr3,mKIAA1350
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A_51_P467808 Il1rl2
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A_51_P506093 1500005P14Rik
A_51_P111532 Ubash3a,Sts-2,C330001M22,5830413C03Rik
A_51_P464630 Rad17,MmRad24,9430035O09Rik
A_51_P268863 Car10,2700029L05Rik
A_51_P225427 Pkp2,1200008D14Rik,1200012P04Rik
A_51_P464655 Gpr154,GPRA,VRR1,PGR14,9330128H10Rik
A_51_P479230 Cml4,0610037O16Rik
A_51_P444934 Syk
A_51_P379373 Lactb2,Cgi-83,MGC7674,E430032H21Rik
A_51_P467837 Ap3m2,AP-3B,5830445E16Rik
A_51_P275111 Hrh4,H4,H4R,BG26,HH4R,AXOR35,GPRv53,GPCR
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A_51_P269524 Hccs
A_51_P242663 Stam,STAM1
A_51_P436157 Sh3md1,Fish
A_51_P367554 1700110M21Rik
A_51_P464691 4930432K09Rik
A_51_P508300 Kcnn3,SK3,SKCA3
A_51_P449956 Dnajc7,Ttc2,mDj11,mTpr2,2010003F24Rik,2010004
A_51_P187421 1700047E16Rik,Ftm,4931437C01
A_51_P513586 2210012G02Rik,2210010B22Rik
A_51_P320593 Def6,Slat6,2410003F05Rik,6430538D02Rik
A_51_P344447 Adam1b,Ftna,Adam1
A_51_P358462 4930579J09Rik,IIIG9,IIIG9L,IIIG9S
A_51_P314584 Gpkow,T54,mT54,DXImx41e,4432411B18
A_51_P140933 4930519P11Rik
A_51_P470751 Rgpr,Rgpr-p117
A_51_P269546 Trem2,Trem2a,Trem2b,Trem2c
A_51_P152167 Pias3,Pias3L,MGC27936
A_51_P175027 Dnahc5,Dnah5,Mdnah5,KIAA1603,mKIAA1603
A_51_P367530 Syt6,3110037A08Rik
A_51_P457244 Xlr4
A_51_P380581 Fubp1,FBP,Fubp,Fubp4,D3ErtD330e,9530027K12Ril
A_51_P233753 Foxp2,CAG-16,D0Kist7,2810043D05Rik
A_51_P380587 4933440J22Rik,2610029E11Rik
A_51_P175018 NM_133237
A_51_P520175 Cntn1,CNTN,F3cam
A_51_P367563 Rshl2,1700012G05Rik,4930524H12Rik
A_51_P379341 Neurod2,Ndrf
A_51_P225493 1700016C15Rik

A_51_P411415 ENSMUST00000069790
A_51_P285487 2810428C21Rik
A_51_P411452 Trpc6,Trrp6,mtrp6
A_51_P470715 Cish,Cis,F17,F23,CIS1
A_51_P233707 AI851076,MGC107323,8030451K07
A_51_P351152 Olfr1023,MOR196-3
A_51_P187461 Rel,c-Rel
A_51_P388086 Cntnap1,NCP1,p190,Caspr,Nrxn4,paranodin
A_51_P379318 Olfr127,MOR218-7
A_51_P275174 Chd5,4930532L22Rik,B230399N07Rik
A_51_P344407 H2-Ke6,Ke6,Ring2,H-2Ke6,MGC107650,D17H6S112
A_51_P241705 Ptpn1,PTP1B,PTP-1B
A_51_P152155 Glt8d1,2410004H05Rik,5430414N14Rik
A_51_P295420 Zc3hdc7,HSPC055,A430104C18Rik
A_51_P137236 Olfm1,AMY,Noe1,OlfA,Pancortin,Pancortin3
A_51_P242687 Otog,twt,Otgn,4932420K09
A_51_P196087 Nav1,POMFIL3,unc53H1,mKIAA1151,steerin-1,9530
A_51_P455295 2310038E17Rik
A_51_P175069 Adamts10,ZnMP,9430006O18
A_51_P122906 Tnfrsf11a,OFE,ODFR,Rank,Ly109,mRANK,TRANCE
A_51_P412249 AI837370
A_51_P241715 4930579C12Rik
A_51_P380541 Fbxl12,Fbl12,3110048D16Rik
A_51_P520139 BQ935070
A_51_P351144 Mybl2,Bmyb
A_51_P436189 0610006K04Rik
A_51_P137254 Klhl10,4921517C11Rik
A_51_P247070 2810465F10Rik
A_51_P196044 V2r4
A_51_P262202 A_51_P262202
A_51_P441837 1110038M16Rik,1500001P22Rik,1700012A05Rik
A_51_P489996 Dst,ah,dt,Bpag,BP230,Bpag1,Macf2,nmf203,BPAG1
A_51_P412200 Klf9,Bteb1,BTEB-1
A_51_P403881 Tex292,TEG-292
A_51_P327585 Gstm4,Gstb4,Gstb-4,GSTM7-7,MGC40906,1110004
A_51_P152115 Ddi2,9130022E05Rik
A_51_P241769 Rhced,Rh,Rhl1
A_51_P262268 D030014N22Rik,4932441F21
A_51_P411495 4930465A12Rik
A_51_P395258 Pkia,PKIalpha
A_51_P152102 Atoh7,Math5
A_51_P441807 2410002I01Rik
A_51_P470724 Eif2s2,EIF2,38kDa,EIF2B,D2Ert303e,2810026E11F
A_51_P299260 5730439E10Rik
A_51_P299266 2700038C09Rik,0610012G23Rik,2610317A05Rik,31
A_51_P262228 BC006662,MGC7867
A_51_P470793 Dcst1,A330106H01Rik
A_51_P196027 Ube2l3,UbcM4,Ubce7
A_51_P380514 Tjp4,Pilt,0610041D19Rik
A_51_P233788 Dmap1,DNMAP1,Dmtap1,DNMTAP1,mKIAA1425,15
A_51_P484526 Wif1
A_51_P122964 1700034P14Rik,GPBP,mGPBP

A_51_P441843 BC025462,MGC38195,MGC38407
A_51_P299243 Msra,MSR-A,MGC101976,2310045J23Rik,6530413F
A_51_P182975 Tmprss11e,TTSP,DESC1,A030012E10
A_51_P262208 Itgb2,2E6,LAD,Cd18,Lfa1,MF17,LCAMB
A_51_P118300 Sncg,persyn
A_51_P351194 Cnfn,2210418J09Rik
A_51_P299287 Impa2,AI326924,2210415D20Rik
A_51_P520191 Gpr35
A_51_P285462 Olfr1394,MOR280-1
A_51_P367580 Pb1,BAF180,4933432C20
A_51_P520198 D8Ertd531e,2210018P21Rik,4930592A21Rik
A_51_P122972 4930472D12Rik
A_51_P506128 Zfp28
A_51_P118320 D10Jhu81e,ES1,C21orf33
A_51_P285418 Olfr568,MOR14-3,MOR14-11
A_51_P196056 Wiz
A_51_P241791 Mlf1ip,1700029A22Rik
A_51_P253019 BC010981
A_51_P467981 2210008M09Rik,MGC25805,A630065D16
A_51_P297388 5133400G04Rik,2700012K08Rik,4930583E11Rik
A_51_P320668 Arp3b,ARP11,Arp3beta,MGC91290,9630005C02
A_51_P484753 1810045K07Rik
A_51_P490397 Pold3,P66,P68,2410142G14Rik
A_51_P253028 Olfml2a,FLJ00237,mFLJ00237,4932431K08Rik
A_51_P412050 Hist1h4a
A_51_P196019 Trpc1,Trrp1
A_51_P182993 Map3k2,Mekk2,Mekk2b
A_51_P152191 Xpo5,Exp5,RanBp21,mKIAA1291,2410004H11Rik,2'
A_51_P285446 Lig1,Ligl,mLigl
A_51_P152199 Arpc2,34kDa,p34-Arc,2210023N03Rik
A_51_P165984 Aup1
A_51_P490388 Nudt8,2310039H17Rik
A_51_P130115 Spink2,HUSI-II,MGC107139,1700007F22Rik
A_51_P111210 Smc4l1,2500002A22Rik
A_51_P130110 Idh3b
A_51_P467990 Bcas2,MGC7712,6430539P16Rik
A_51_P341896 6430562O15Rik
A_51_P165934 Phb,BAP32
A_51_P513611 Ubr2,AI462103,AW540746,MGC36320,9930021A08
A_51_P228032 Kcnq4
A_51_P484735 Olfr138,Olfr89,MOR256-40P
A_51_P506111 Msgn1,pMsgn1
A_51_P492850 D10628,Zfp413
A_51_P513653 Olfr497,MOR204-9
A_51_P490337 4930572D21Rik
A_51_P228073 A530080P10
A_51_P512859 Atbf1,WBP9,KIAA4228,mKIAA4228,A230102L03Rik
A_51_P314465 1110031B11Rik
A_51_P389988 Slc40a1,MTP,OI5,Pcm,Dusg,Fpn1,MTP1,IREG1,Slc'
A_51_P320606 D13Wsu14e,PLP-L,Prpl,1600013P04Rik,RP23-231F
A_51_P225506 Pnrc2,MGC11707,D4Bwg0593e,0610011E17Rik
A_51_P234985 Olfr975,MOR224-2

A_51_P253084 BC022960
A_51_P200204 Bapx1,NKX3.2,Nkx3-2,Nkx-3.2
A_51_P200203 Neurod4,ATH-3,Atoh3,Math3,MATH-3
A_51_P512820 Dera,DEOC,2010002D22Rik,2500002K03Rik
A_51_P341871 Usp32,Car4,6430526O11Rik
A_51_P377179 1700018A14Rik
A_51_P513600 Ensa,1700020C18Rik,2610007F17Rik
A_51_P377171 5830405N20Rik
A_51_P490348 1110059E24Rik
A_51_P111223 Olfr606,MOR17-2
A_51_P412027 Cxcr6,BONZO,STRL33,BONZO-like
A_51_P412024 Xtrp3s1,A730081N20Rik
A_51_P165914 6430601A21Rik
A_51_P297346 Scamp1,4930505M11Rik
A_51_P143418 NAP108607-1
A_51_P111259 Cdk2ap2,Doc-1r,D19ErtD144e,5830466O21Rik
A_51_P269687 Pole2
A_51_P365468 Skd3
A_51_P467953 Lrfr4,MGC36464,MGC36545
A_51_P512801 Ampd3
A_51_P200223 D530025C17Rik
A_51_P314418 Blm
A_51_P506187 Mtmr2,6030445P13Rik
A_51_P297336 Chmp7,MGC29816,4930596K11Rik,6330407G04Rik
A_51_P377154 Cyp2a4,Cyp15a1,D7Ucla4
A_51_P320614 Txnrd1,TR,TR1,Tgr,TrxR1
A_51_P200277 Serhl,0610008B10Rik,1110019M09Rik
A_51_P275005 Fut4-ps1
A_51_P234944 Adamts4,ADMP-1,ADAM-TS4,ADAMTS-2,3830423K
A_51_P467971 Ank3,AnkG,Ank-3,MGC14049,Ankyrin 3
A_51_P479138 Olfr771,MOR114-8
A_51_P341832 Nthl1,Nth1,Ocst3
A_51_P490305 Ifi30,GILT,IP30
A_51_P428483 Fgb,2510049G14Rik
A_51_P234956 Xcl1,LTN,ATAC,Lptn,SCM-1,Scyc1,SCM-1a
A_51_P467908 Slco6b1,1700022M03Rik
A_51_P341821 Arid4b,BCAA,BRCOA1,Rbp111,SAP180,RBBP1L1,5C
A_51_P111293 Il1f8,2310043N20Rik
A_51_P458218 Wdr13,mMg21,DXHXS746e,1700060B08Rik,57304
A_51_P358354 Jam3,JAM-3,JAM-C,Jcam3,1110002N23Rik
A_51_P396550 Sufu,Su(Fu),2810026F04Rik
A_51_P143468 C630013N10Rik,MGC38024
A_51_P396559 4930597G03Rik
A_51_P513661 C230026C11
A_51_P152725 ENSMUST00000061648
A_51_P234975 Ms4a2,Fce1b,Ms4a1,Fcer1b
A_51_P344566 Pik1,Pik,STPK13
A_51_P358342 Col17a1,Bpag,BP180,Bpag2
A_51_P225535 C230079D11Rik,Gm329,Gm945,D430002O22Rik,D
A_51_P181227 Smurf1,mKIAA1625,4930431E10Rik
A_51_P225573 Olfr981,MOR223-8
A_51_P479177 Nosip,CGI-25,MGC115777,2310061K06Rik

A_51_P234907 Cep1,IB3/5,Ma2a8,CEP110,6720467O09Rik
A_51_P188431 NAP057224-1
A_51_P396570 Plod2,LH2,Plod-2,D530025C14Rik
A_51_P411728 2900026A02Rik,KIAA1671,mKIAA1671,A530094D01
A_51_P513682 Cdca1,NUF2R,2410003C07Rik
A_51_P441983 Itga2,CD49B
A_51_P275016 Slc7a3,CAT3,Atrc3,SLC7A1,SLC7A2
A_51_P143446 Olfr1010,MOR213-1
A_51_P121547 Bmi1,Bmi-1
A_51_P187716 Zc3hdc11a,mKIAA0663,1110003F06Rik,5730454B0
A_51_P358363 Loxhd1,4932417K07,1700096C21Rik
A_51_P200291 Golga3,Mea2,Mea-2,5330413L04,5430416E01Rik
A_51_P341801 Mtus1,MD44,Atip1,MTSG1,ATBP135,MGC115798,r
A_51_P314487 Polr3h,RPC8,5031409G22Rik
A_51_P428414 1700020L13Rik
A_51_P143495 E130103I17Rik
A_51_P428410 1700022P15Rik
A_51_P152773 Zfp553,MGC31231,2600009K23Rik,C330013F15Rik
A_51_P175567 Dact1,FRODO,HDPR1,MTNG3,DAPPER,THYEX3,D
A_51_P234927 Cdk3,2310050O10Rik
A_51_P344552 Irs4,IRS-4
A_51_P358316 Chga
A_51_P314497 1110056N09Rik,Gmrp1
A_51_P269634 4732429I09Rik,Krox-9,Zfp-14,KIAA1559,mKIAA1559
A_51_P458208 BY715341
A_51_P457171 2610207I05Rik,mKIAA0421
A_51_P233603 Psm7,C6-I
A_51_P275083 Mrps18a,MGC66832,1110004O20Rik
A_51_P474158 D13Wsu177e
A_51_P175549 Olfr843,MOR155-2
A_51_P351273 Tcea3,S-II
A_51_P187726 Tes3-ps,Rp42,pTes3
A_51_P348636 Osbp2,Gm244,ORP-4,OSBPL1,1700095P05Rik,C63
A_51_P470029 Taf9,Taf2g,2310012M09Rik,2810046E22Rik,492151
A_51_P275053 1700094C09Rik,MGC58425
A_51_P121506 Ate1
A_51_P367880 Krt2-16,HRb-1,Krt2-3
A_51_P175552 Pelo
A_51_P225592 Tpm4
A_51_P344507 Il10rb,Crfb4,CRF2-4,Il10r2,D21S58h,IL-10R2,D16H2
A_51_P451450 Pvt1,Mis-1,Pvt-1,Mlvi-1
A_51_P269652 Slc25a3,PTP,Phc,5730556H19Rik
A_51_P295398 1700021P04Rik
A_51_P241407 Centd1,ARAP2,Gm148,mKIAA0580
A_51_P373901 Tsga2
A_51_P411757 B930093C12Rik
A_51_P351217 Rab39,C230094F14Rik
A_51_P152023 1200016G03Rik
A_51_P262533 Cxxc1,Cgbb,PHF18,2410002I16Rik,5830420C16Rik
A_51_P428464 Cdy12,1700029M19Rik,4930453I21Rik
A_51_P275072 1110012N22Rik,MGC107698
A_51_P275077 Glp1r,GLP-1R

A_51_P152073 Lrrtm1,4632401D06Rik
A_51_P470079 Il1r2,CD121b,Il1r-2
A_51_P387845 BC010304
A_51_P387868 1700010L19Rik
A_51_P101765 Smarcd1,Baf60a,D15Kz1
A_51_P299125 Rbbp9,Bog
A_51_P152032 Zfp385,Hzf
A_51_P387878 Rpl22,2700038K18Rik
A_51_P457130 BC017643,MGC28978,MGC37062,MGC37382
A_51_P322658 A330045H12Rik,Gm576,PLCXD1
A_51_P351238 5033414D02Rik,1110007H22Rik
A_51_P241465 Gsn,MGC28083
A_51_P118284 Podxl,PC,Ly102,Pclp1
A_51_P367834 Gnai1,Gnai-1,Gialpha1
A_51_P262515 Phf11,4933417L10Rik
A_51_P233619 1700006E09Rik
A_51_P420969 Nme5,1700019D05Rik
A_51_P451458 Mamdc2,1200015L10Rik
A_51_P241413 0610025J13Rik,B430316H17Rik
A_51_P262571 Pygb,MGC36329
A_51_P148494 0610013E23Rik
A_51_P498031 Gria1,Glrl,Glrl-1,GluRA,Glur1,HIPA1,GluR-A,Glur-1,
A_51_P299107 Chst5,GST-4,I-GlcNAc-6-ST
A_51_P344586 Kif12
A_51_P420918 Ly6i,Ly-6I,Ly-6M,AI789751
A_51_P349691 Al604832
A_51_P387810 Ifih1,Hlcl,MDA5,MDA-5,Helicard,MGC90959,91300C
A_51_P299134 1700001F04Rik
A_51_P441942 Tial1,mTIAR,5330433G13Rik
A_51_P276479 4930486L24Rik
A_51_P328817 6330514A18Rik
A_51_P420901 Srp54,54kDa
A_51_P367866 Egr1,egr,TIS8,Zenk,Egr-1,NGFIA,Zfp-6,ETR103,Kro
A_51_P345110 Thap4,2010320B01Rik
A_51_P262563 Tmem10,Tmp10
A_51_P441933 4931423N10Rik
A_51_P115738 Slc5a5,NIS
A_51_P136542 Bcl3,Bcl-3
A_51_P367843 Polr2g,2410046K11Rik,A230108L04Rik
A_51_P351286 Pcsk7,SPC7
A_51_P248846 4930471G03Rik,1700007N01Rik
A_51_P185292 4930581F22Rik
A_51_P441970 4933409N07Rik,mKIAA1392
A_51_P253359 5730403B10Rik
A_51_P441974 Pip5k1b,Pipk5b
A_51_P276452 Tigd5,FLJ14926
A_51_P175580 Trp53inp1,SIP,Teap,SIP18,SIP27,Stinp,2700057G22
A_51_P299155 6720456B07Rik
A_51_P253348 Chfr,RNF116,C230082M18,5730484M20Rik
A_51_P241499 Abo
A_51_P299149 Gpx6,Ry2d1,MGC19204,1700020G18Rik
A_51_P503407 Olfr746,MOR106-12

A_51_P130028 Eno2,NSE,Eno-2,D6Ertd375e
A_51_P352515 4930402D18Rik
A_51_P377210 5830433M19Rik
A_51_P328850 Abcc9,Sur2,SUR2A,SUR2B
A_51_P457187 Tnfrsf13c,Bcmd,Baffr,Bcmd1,BAFF-R,Bcmd-1,Lvis22
A_51_P118237 Sgk,Sgk1
A_51_P506674 Rpp38,C330006A15Rik
A_51_P112322 Hus1,mHus1
A_51_P425833 Lztf11,5530402H04Rik,6130400H19Rik
A_51_P345196 Bbs2,2410125H22Rik
A_51_P328889 Tekt1,MT14
A_51_P464661 BC018371,Mycbpap,MGC25878
A_51_P377237 Kras,ras,p21B,K-ras,Kras2,Ki-ras,Kras-2,MGC7141
A_51_P276418 Rab6b,9630015C03,D9Bwg0185e,C330006L04Rik
A_51_P425824 1110035L05Rik
A_51_P299195 Hnrph1,Hnrph,E430005G16Rik
A_51_P253310 Fmn2
A_51_P328870 Oxt,OTR
A_51_P352572 Clcnkb,CLCKB,Clc-Ka,Clcnk1l
A_51_P506204 Cdh11,Cad11,2810038F24,2610005L07Rik
A_51_P377228 LOC215714
A_51_P143712 Tdh
A_51_P130015 Ect2,KIAA4037,mKIAA4037
A_51_P425815 Al835086
A_51_P276404 Top1,Top-1,Al467334,D130064I21Rik
A_51_P349652 Lao1
A_51_P111762 Creg1,Creg
A_51_P481821 Spcs3,1810011E08Rik
A_51_P352594 St5,2010004M01Rik,2610305K15Rik
A_51_P479029 Trpv6,CAT,Cac,CaT1,Ecac2,Otrpc3
A_51_P464420 4921508M14Rik
A_51_P225634 Zdhhc25,1700030J15Rik
A_51_P425847 A430108B07Rik,MULT1
A_51_P513311 Rxrg,Nr2b3
A_51_P443344 Acyp2,2310004B09Rik
A_51_P349662 Taf5l,1110005N04Rik
A_51_P406974 Olfr518,MOR268-5
A_51_P148478 Olfr510,MOR204-34
A_51_P513369 Dusp12,VH1,mVH1,ESTM36,T-DSP4,LMW-DSP4,1'
A_51_P112355 Igtp
A_51_P335077 BC059730
A_51_P314375 Serpinc1,At3,At-3,ATIII
A_51_P314313 Taf4a,135kDa,Taf2c1,TAFII130,TAFII135
A_51_P225761 Zcchc6,MGC38585,6030448M23Rik
A_51_P314339 2500003M10Rik
A_51_P490023 Tubb2,M(beta)2
A_51_P506683 Fbxw7,AGO,Cdc4,Fbw7,Fbwd6,Fbx30,Fbxw6,Fbxo3
A_51_P143721 Al413782
A_51_P269792 Rad51l1,R51H2,mREC2,Rad51b
A_51_P269793 Gdap6
A_51_P358243 2610029I01Rik
A_51_P497395 Lypdc1,2700050C12Rik,C530008O16Rik

A_51_P444437 Ltb4dh,2510002C21Rik
A_51_P443364 Cbl11,Hakai,c-Cbl-like
A_51_P314323 1500034E06Rik
A_51_P365378 Vmd211
A_51_P506236 Clcn5,Clc5,T25545,5430408K11Rik,D930009B12Rik
A_51_P130057 Ppm1k,MGC115965,2900063A19Rik,A930026L03Ri
A_51_P335019 A030007L17Rik
A_51_P269728 Psmb5
A_51_P358256 Nr1i3,CAR,CAR1,CAR2,MB67,mCAR,Care2,ESTM3
A_51_P276486 1810049H19Rik,Tesp4
A_51_P479061 4930579G24Rik
A_51_P456187 Pcd2,Pcd2,RP-8
A_51_P202162 Tom1l2,Sreb1,2900016I08Rik,A730055F12Rik
A_51_P335000 Fhl1,KyoT,KyoT1,KyoT2
A_51_P160673 Kcne1l,Mink,Kcne5,1500015C14Rik
A_51_P186547 Pah
A_51_P506695 AK037673
A_51_P464478 Il4ra,Il4r,CD124
A_51_P458778 Hpgd,15-PGDH,MGC14001
A_51_P320786 Gps2
A_51_P358225 Tde2,Tms2,TMS-2,Tde1l,mKIAA1253,1500011D18R
A_51_P513392 Azi2,AZ2
A_51_P428730 Sumo2,Smt3b,SUMO-2,Smt3h2
A_51_P314388 B430108F07Rik
A_51_P275365 Olfr1411,MOR208-3
A_51_P187242 Hrh2
A_51_P411609 AF078112
A_51_P275315 Kif1a,ATSV,Kns1,Gm1626,C630002N23Rik
A_51_P506284 Pdlim7,1110003B01Rik,2410002J21Rik
A_51_P479043 Nif3l1,MGC107114,1110030G24Rik
A_51_P428715 Mrpl13,1110002D09Rik
A_51_P492528 D3Bwg0562e,PRG-1,mKIAA0455,A330086D10
A_51_P269721 XM_147288
A_51_P175674 4930433N12Rik
A_51_P411645 Maea,EMP,1110030D19Rik
A_51_P436342 Hoxb5,Hox-2.1
A_51_P275350 Pten,TEP1,MMAC1,2310035O07Rik,A130070J02Rik
A_51_P436346 1810013D15Rik
A_51_P458707 ENSMUST00000055793
A_51_P497317 E430026E19Rik,MGC39016
A_51_P187210 1500002M01Rik
A_51_P233546 Insrr,IRR
A_51_P428754 Grik5,KA2
A_51_P479052 Tars,ThrRS,D15Wsu59e
A_51_P111796 AW146020,GCF2,A130099G21
A_51_P436368 Hspe1,10kDa,mt-cpn10
A_51_P233578 AL033326,UIP28,Ubce7ip3
A_51_P314397 Crip2,Crp,Hlp,CRP2,ESP1,0610010I23Rik
A_51_P381657 Usp1,MGC25559
A_51_P458722 AK029194
A_51_P428708 C4,Ss
A_51_P325992 ORF21,C21orf18

A_51_P175601	4930578C19Rik	
A_51_P262079	H2-Q7,Q9,Ped,Qa7,Qa-2,Qa-7,H-2Q7	
A_51_P241535	1810011H11Rik,4733401I05Rik	
A_51_P428742	3000003F02Rik	
A_51_P332309	Eomes,Tbr2	
A_51_P187231	Zcchc9,1810019C21Rik	
A_51_P497332	Nmyc1,Nmyc,N-myc,Nmyc-1,c-nmyc	
A_51_P470530	1700019B03Rik	
A_51_P269743	Rpl30,MGC106425,MGC107559	
A_51_P323812	Slc6a12,GAT2,Gabt2	
A_51_P175667	Lpo,5830499B15Rik	
A_51_P292030	D10Ertd438e,MGC7199,1600027K07Rik	
A_51_P395084	Gnrhr	
A_51_P241577	Spats1,Daip2,Srsp1,1700011H05Rik,4933400B06Ril	
A_51_P195982	Strn,D130055P19	
A_51_P497379	Olf30,MTPCR07,MOR281-1	
A_51_P395079	4930562C15Rik	
A_51_P390522	Cno,2610101N07Rik	
A_51_P436386	2610028H07Rik	
A_51_P275395	Wdr23,GLO14,D14Ucla1,0710008A13Rik	
A_51_P135665	D430038H04Rik,Fat3,Gm1132,MFAT3F,9430076A0	
A_51_P233515	Oaz3,AZ-3,Oaz-t	
A_51_P395098	Hspa5,Bip,Sez7,78kDa,Grp78,SEZ-7,Hsce70,D2Wst	
A_51_P497350	Spint2,HAI-2	
A_51_P470519	4930451C15Rik,mCG12354,mCP17390	
A_51_P457054	Pank4,D030031I12Rik	
A_51_P332355	Kif18a,MGC27627,B130001M12Rik	
A_51_P285256	Tcrq-C,MGC6230	
A_51_P332379		1.81E+21
A_51_P228295	Mpz11,1110007A10Rik	
A_51_P349961	Gc,DBP	
A_51_P285243	Chat,B230380D24Rik	
A_51_P104418	Dusp10,MKP-5,2610306G15Rik	
A_51_P305600	Olf155,OR37A,mOR37a,Olf155,MOR262-14,GA_xf	
A_51_P175699	1700020C11Rik,Mtp18,2610507A21Rik	
A_51_P484718	Dock8,1200017A24Rik,5830472H07Rik,A130095G1	
A_51_P411694	Al790298	
A_51_P349951	0610010K14Rik,1110020A23Rik	
A_51_P104409	4931403E03Rik	
A_51_P250934	Hsd17b7	
A_51_P328944	E030049G20Rik,Nap5,Gm1548,MGC90557,843040f	
A_51_P506748	6430596G11Rik	
A_51_P395011	Bak1,Bak,N-Bak,N-BAK1	
A_51_P395014	Ndufs3,0610010M09Rik	
A_51_P349912	Fmn1,ld,Fmn	
A_51_P233583	Clec1b,Clec2,Clec-2,mCLEC-2,1810061I13Rik	
A_51_P253279	Cntn6,NB-3	
A_51_P325914	Jun,AP-1,Junc,c-jun	
A_51_P175681	A630026L20	
A_51_P332392	2010305A19Rik	
A_51_P285279	Slc25a2,Ornt2	
A_51_P305628	Atp8a2,lb,Atpc1b	

A_51_P328926 Tmpo,TP,LAP2,5630400D24Rik
A_51_P325941 Kcnj12,IRK2,Kir2.2,MB-IRK2
A_51_P411264 5730420B22Rik
A_51_P253227 Fbxo16,Fbx16,4932435C24Rik
A_51_P349904 4930408G06Rik
A_51_P104478 Smpx,Csl,1010001C09Rik
A_51_P253204 Katnb1,KAT,2410003J24Rik
A_51_P253207 D630035O19Rik
A_51_P514913 BC056485,B430319G23
A_51_P285229 FHOS2,KIAA1695,mKIAA1695
A_51_P506763 E030024N20Rik
A_51_P148509 Ttn,mdm,shru,1100001C23Rik,2310036G12Rik,2310036G12Rik
A_51_P276993 Gpr84,EX33
A_51_P299055 Agtr11,APJ,msr/apj
A_51_P349922 C130081A10Rik
A_51_P470589 Lars,mKIAA1352,2310045K21Rik,3110009L02Rik
A_51_P176154 Sirpb,SIRP-beta,9930027N05Rik
A_51_P503757 Igl-V1,1810027O01Rik
A_51_P481968 Cklsf6,2810051A14Rik
A_51_P118506 Spag16,Pf20,Wdr29,4921511D23Rik,4930524F24Rik
A_51_P305693 Rif1,D2Ert145e,5730435J01Rik,6530403D07Rik
A_51_P350091 Hlxb9,HB9,MNR2
A_51_P228232 Flot2,Esa
A_51_P320888 Cln5,A730075N08Rik
A_51_P506755 Tep1,Tp1,MGC91078
A_51_P148512 Erbb2ip,Erbin,mKIAA1225,1700028E05Rik
A_51_P296292 Nono,nonA,NRB54,P54NRB,MGC103109
A_51_P480881 Thap11,CTG-B43a,CTG-B45d
A_51_P433091 Purb,Cager-2,D11Bwg0414e,2310015K15Rik
A_51_P454958 1110032O16Rik,2900045G02Rik
A_51_P284177 9030611N15Rik,Akr1c14
A_51_P438967 Gpnmb,ipd,Dchil
A_51_P496751 Nol5,SIK,MSSP,MGC105209
A_51_P494241 Bcl2a1b,A1-b
A_51_P517145 Sort1,Ntr3,Ntsr3,2900053A11Rik
A_51_P246677 Rec8L1,Rec8,mrec
A_51_P221031 AW210596,3230401A21
A_51_P221072 C1qtnf7,CTRP7,5530401N20Rik,8430425G24Rik
A_51_P363461 4833414E09Rik
A_51_P178735 Hibch,MGC31364,2610509I15Rik
A_51_P331246 Polr2l,2510029B14Rik
A_51_P460279 4930500O09Rik
A_51_P445532 Glra1,ot,spd,spasmodic,oscillator
A_51_P221062 Prkar2b,Pkarb2,Ril(beta)
A_51_P230852 AK039174
A_51_P454949 Gstm3,Fsc2,mGSTM5
A_51_P460247 A430107O13Rik,6720481P07
A_51_P117890 Ctgf,Hcs24,Fisp12,fisp-12
NA NA
BrightCorner BrightCorner
A_51_P454913 Camkv,1G5,MGC28873
A_51_P323531 1700021P22Rik

A_51_P183025 Oas1d,oasl8
A_51_P415029 Ddx26,HDB,DICE1,Notch2l,2900075H24Rik
A_51_P117881 Leap2,leap-2
A_51_P105709 Trip13,D13Ert328e,2410002G23Rik
A_51_P517672 Rnf152,A930029B02Rik
A_51_P517182 Hrasls3,Hrev107
A_51_P310196 Tnfsf5,IGM,IMD3,Ly62,TRAP,gp39,CD154,Cd40l,HlK
A_51_P438924 Cklfsf5,1500005P16Rik,2900052H21Rik
A_51_P126647 1810009A15Rik
A_51_P445562 Chst10,ST,Hnk-1st
A_51_P230878 Mad2l1,MAD2,MGC113763
A_51_P438939 A830009F23Rik
A_51_P384609 Ddx10,MGC91294,4632415A01Rik
A_51_P506714 Tdrkh,Tdrd2,2700091C21Rik
A_51_P130773 Adam11,Mdc
A_51_P118539 2700049A03Rik
A_51_P228208 AA407526,4631409J12
A_51_P362029 Cd48,BCM1,BLAST,Bcm-1,BLAST1,SLAMF2,Sgp-6l
A_51_P309328 Nbn,Nbs1
A_51_P513439 D630003M21
A_51_P481958 Cldn1
A_51_P130757 Phca,1110057L18Rik,5430429L08Rik
A_51_P228218 1700023O11Rik,9530025I05Rik
A_51_P377760 Rnasel,E230029I04Rik
A_51_P160710 Olfr131,MOR256-4
A_51_P464710 Centa2
A_51_P200027 Lims1,PINCH,Lims1l,PINCH1,2310016J22Rik,49215
A_51_P225723 Olfr908,MOR165-2
A_51_P403610 Olfr1339,MOR258-2
A_51_P266683 Efna1,B61,Epl1,EFL-1,Eplg1,Lerk1,LERK-1
A_51_P513424 Usp16,UBP-M,1200004E02Rik,2810483I07Rik,6330
A_51_P296975 2510003E04Rik,MGC107132,mKIAA1279,0710007C
A_51_P352452 Dbx2,9630005K15
A_51_P481920 Ccna2,Ccn1,Ccna,Cyca,Ccn-1
A_51_P176185 Gak,MGC31204,D130045N16Rik
A_51_P479786 Smtn,smsmo
A_51_P425962 Khdrbs3,Etle,Slm2,SLM-2,T-STAR
A_51_P276939 Gmip,5031419I10Rik
A_51_P456208 Tff3,ITF,mITF
A_51_P266695 6030441F14Rik,MGC30417,A930011L17
A_51_P481978 Rab3c,2700062I01Rik,3110015B08Rik,3110037E15l
A_51_P309370 2410043F08Rik,Cal,Gt10
A_51_P296902 V1rg1
A_51_P464738 Slc2a1,Glut1,Glut-1
A_51_P296905 Ppat,MGC38417,5730454C12Rik
A_51_P349988 Ggta1,Gal,GALT,Ggta,Ggta-1,alpha3GalT
A_51_P403636 Smad7,Madh7
A_51_P314273 Parp1,PARP,PPOL,Adprp,Adprt1,parp-1,sPARP-1,5l
A_51_P130727 Fkbp11,1110002O23Rik
A_51_P425944 Kpna6,IPOA7,Kpna5
A_51_P458498 Olfr362,MOR158-1
A_51_P228254 Zdhhc21,9130404H11Rik

A_51_P109097 Olfr109,MOR250-1
A_51_P143212 Smc4l1,2500002A22Rik
A_51_P458451 Adipoq,Acdc,apM1,30kDa,GBP28,adipo,Acrp30
A_51_P160754 Apobec1,Cdar1
A_51_P296925 2410003B16Rik,6030492A02
A_51_P269084 Ndg2,1620401E04Rik
A_51_P202408 Ptgir,IP
A_51_P479758 Sp4,HF-1b,HF1-b
A_51_P379293 Ear6
A_51_P489887 Susd3,1700017I11Rik,2810440J20Rik
A_51_P396719 Gpr73l1,PKR2,EG-VEGRF2,B830005M06Rik
A_51_P513460 Cfh1,CFHRB
A_51_P186265 Apg4c,Autl1,Apg4-C
A_51_P506787 Nap1l1,NAP-1,D10Ertd68e
A_51_P362089 Lrrc3b,LRP15,MGC30505
A_51_P145589 Zcwpw1
A_51_P506792 Tpd52,mD52
A_51_P275207 Hsd17b3
A_51_P276943 Gpc1
A_51_P513449 Pogz,9530006B08Rik
A_51_P396774 Sugt1,SGT1,2410174K12Rik
A_51_P160787 Art5,Yac-2
A_51_P185121 Sfrs6,1210001E11Rik
A_51_P479769 Ampd2,Ampd-2,1200014F01Rik
A_51_P497295 Qpct,5730422A13Rik
A_51_P296995 Abcc8,SUR,SUR1,D930031B21Rik
A_51_P464769 Calmbp1,Aspm,Sha1,MCPH5,D330028K02Rik
A_51_P268903 Mon1a,2810468K17Rik
A_51_P320876 Tomm34,TOM34,Tomm34a,Tomm34b,2610100K07F
A_51_P379264 Olfr1015,MOR213-3
A_51_P411154 lpw
A_51_P436051 1110005F07Rik,NECAP2
A_51_P269045 A_51_P269045
A_51_P314285 1810054O13Rik
A_51_P320860 2700023B17Rik
A_51_P377789 Map3k12,DLK,MUK,Zpk
A_51_P479715 Eif2s3y,Spy,Tfy,Eif-2gy
A_51_P464791 2310032D16Rik,mKIAA1434,2310004G06Rik
A_51_P365604 9030612E09Rik
A_51_P358152 Sepn1,1110019I12Rik
A_51_P396752 Arl2bp,Bart1,1700010P10Rik,1700027H16Rik,63305
A_51_P436002 Hivep1,Cryabp1
A_51_P350942 Olfr1100,MOR206-4
A_51_P306243 Olfr623,MOR1-4
A_51_P436020 0610041E09Rik,5730424F14Rik
A_51_P111488 5730466C23Rik
A_51_P242779 Tcte1l,2310075M16Rik
A_51_P470672 NM_025930
A_51_P489878 1700020O03Rik,4732487G21Rik,A630090I05Rik
A_51_P135340 Panx1
A_51_P379230 Maf,c-maf,2810401A20Rik,A230108G15Rik
A_51_P200087 4930444G20Rik

A_51_P200083 Grina,Lag,1110025J15Rik
A_51_P428244 Nup54,54kDa,3110079L04Rik
A_51_P350922 Slc25a1,Ctp,Dgsj,Slc20a3,MGC47055,1300019P08F
A_51_P489800 2810408A11Rik,4930470J18Rik
A_51_P187561 Six3,Six3a,Six3b,Six3beta,Six3alpha
A_51_P397200 AF397014
A_51_P489821 Wdfy3,ALFY,BWF1,Ggtb3,ZFYVE25,D5Ert66e,mKI
A_51_P436068 Admr,NOW,AM-R,MB10,G10-D,Gpcr17,Gpcr22
A_51_P390496 Stard7,MGC27663
A_51_P351062 Odf4,Oppo1
A_51_P458428 Pim2,Pim-2,DXCch3
A_51_P225793 2600010E01Rik
A_51_P215969 Olfr389,MOR135-6
A_51_P436092 Olfr729,MOR246-6
A_51_P258721 Tpsg1,TMT,Prss31
A_51_P187507 Acad10,2410021P16Rik
A_51_P358112 Fads1,DSD,MGC37858,0710001O03Rik,A930006B2
A_51_P269029 Zfp179,bfp,ZNF179
A_51_P262340 Rbm3,2600016C11Rik
A_51_P135322 Pqbp1,Sfc2,PQBP-1
A_51_P258768 0610010I15Rik
A_51_P351015 Lta,LT,Ltx,Tnfb,LT[a],LT-[a],TNFSF1,Tnfsf1b,LT-
A_51_P497263 Mtap6,STOP,F-STOP,2810411E12Rik
A_51_P332217 Ushbp1,MCC2,AIEBP,9430064H24,2210404N08Rik
A_51_P225083 Snx17,mKIAA0064,D5Ert66e,5830447M19Rik
A_51_P498274 4930509O22
A_51_P332228 Nol4,Gm1262,1700013J13Rik,4930568N03Rik
A_51_P241269 Actg2,Act4,SMGA,ACTA3,Act-4
A_51_P379208 2410030J07Rik
A_51_P470630 2310014L17Rik
A_51_P241262 Arhgap15,5830480G12Rik
A_51_P351009 Nup37,2410003L22Rik,2810039M17Rik
A_51_P285347 4930544G11Rik
A_51_P332269 Rnu69,MBI-134
A_51_P497270 Mycs
A_51_P121236 Lrdd,Pidd,1200011D09Rik
A_51_P332264 Dyx1c1,EKN1,1700010I24Rik
A_51_P142515 Antxr2,CMG2,CMG-2,cl-35,2310046B19Rik
A_51_P121206 Zfx1b,SIP1,Zfx1b,Zfxh1b,mKIAA0569
A_51_P228193 Ociad1,OCIA,Asrij,TPA018,6030432N09Rik,B23020
A_51_P241213 A030005L19Rik
A_51_P464669 Nr1h4,Fxr,HRR1,RIP14,Rxrip14
A_51_P241210 A930031L14Rik
A_51_P360492 Mcm6,Mcnd6,ASP-I1,D1Wsu22e
A_51_P498257 TC1075975
A_51_P137991 Wnt5b,Wnt-5b
A_51_P137947 Ttc3,TPRD,D16lum21,KIAA4119,D16lum21e,mKIAA
A_51_P118443 2310014H01Rik
A_51_P299709 4933438K21Rik
A_51_P137953 Ugdh,Udpgdh
A_51_P332286 Tmem41b,MGC38847,D7Ert66e,D7Ert66e,1500
A_51_P121252 2610034N24Rik

A_51_P228182 Olfr472,MOR204-5
A_51_P349495 Oact1,Mboat1,MGC38410,9130215M02Rik
A_51_P197965 Ap1g1,Adtg,D8Erd374e
A_51_P148684 Pou6f2,RPF-1,D130006K24Rik
A_51_P104527 6620401K05Rik,MGC90531,5930438A12
A_51_P262325 Nek11,4932416N14Rik
A_51_P137913 Slc17a7,Vglut1,2900052E22Rik
A_51_P473119 2810013C04Rik,2810040A01Rik
A_51_P491470 Ddx47,4930588A18Rik
A_51_P299730 Kif6,D130004B10Rik
A_51_P345747 E130309D02Rik,A630028N22
A_51_P121266 Pex2,PXR2,TRIP8b,1700016J08Rik
A_51_P461108 Osbpl10,OPR-10,4933433D06Rik
A_51_P137971 Vdac3,MGC102096
A_51_P121275 2810429O05Rik,MGC36863,D12Erd482e,8430427C
A_51_P197948 1700069O15Rik,3000008H23
A_51_P320980 Sfxn4,MGC107253
A_51_P137926 Tpbpa,Tb1,4311,Tb-1,Tpbp
A_51_P136781 Pnliprp1,Plrp1
A_51_P352705 Tex16
A_51_P464408 5330439B14Rik
A_51_P352738 Mpv17l,M-LP
A_51_P349435 Rps12,MGC102111,MGC102112,MGC102499
A_51_P118400 9130404H23Rik
A_51_P306933 Avpr2,DI1,DIR,ND1,V2R,ADHR
A_51_P490296 Btbd12,D16Bwg1016e
A_51_P121288 Mkks,Bbs6,1300013E18Rik
A_51_P352720 Lmod2,C-Lmod
A_51_P197910 BC013672,MGC19297,9830118M07
A_51_P352773 Defcr-rs7,CRS4C-2,CRS4C2b,CRS4C2c,CRS4C3a,
A_51_P506402 Epb4.1,4.1R,Elp1,Elp-1,KIAA4056,mKIAA4056,D4Er
A_51_P234893 Ecel1,xce,DINE
A_51_P403704 2610100L16Rik
A_51_P299795 9230101H05Rik
A_51_P490257 Fbxo4,1700096C12Rik
A_51_P314168 Qtrt1,Tgt,2610028E17Rik
A_51_P352763 Cyp2b19
A_51_P228159 4930430O22Rik
A_51_P349402 D930016N04Rik
A_51_P148612 Cox7a1,COX7A,COX7AH,COX7AM
A_51_P176054 Inpp5f,SAC2,cl-27,mKIAA0966,5830435P03Rik
A_51_P118417 Scpep1,Risc,2410018F01Rik,4833411K15Rik
A_51_P104596 Ankfy1,Ankhzn,ZFYVE14,mKIAA1255
A_51_P396696 C030039L03Rik
A_51_P503261 E430036I04Rik,AD158,fad158
A_51_P136792 Calcoco1,Cocoa,KIAA1536,mKIAA1536,1810009B0
A_51_P473154 Traf5
A_51_P176068 4732496O08Rik
A_51_P490286 BC016201,MGC27656
A_51_P130666 Adk,AK,MGC6593,5033405D03Rik
A_51_P320993 4930522D07Rik
A_51_P335259 Fcrl5,Fcrh3,mBXMH2

A_51_P160408 A830039H10Rik
A_51_P490247 Fxyd6,Php,0610030I18Rik
A_51_P335251 Pfkfb2,4930568D07Rik
A_51_P377051 2610204L23Rik,asp4
A_51_P314153 2310073E15Rik
A_51_P403728 Olfr1412,MOR208-4
A_51_P422429 Mrg1,Meis2,Stra10,A430109D20Rik
A_51_P349459 LOC279882,TRAV9-4,TRAV9D-3
A_51_P267239 Litaf,TBX1,N4WBP3,3222402J11Rik
A_51_P228171 1700022C02Rik,4921518G09Rik
A_51_P513153 Pnmt,Pent
A_51_P377004 Rab7I1,MGC28972,MGC36539
A_51_P352743 Trim6,D7Ertd684e
A_51_P130676 V1rb6,V1r4,mV1R4,mV1R6
A_51_P506417 Krt1-14,K14,Krt-1.14
A_51_P148670 Nudt7,1300007B24Rik,2210404C19Rik
A_51_P176071 BC025546,MGC38131,C730036L12Rik
A_51_P148675 Dag1,DG,D9Wsu13e
A_51_P473170 Tnfsf4,Ath1,gp34,Ath-1,Ox40I,TXGP1,CD134L,OX-4
A_51_P513163 G430041M01Rik
A_51_P341978 Ube1c,UBA3
A_51_P258859 9130002K18Rik
A_51_P160463 Me3,1700020C08Rik,B230207H15Rik
A_51_P479645 9330140G23
A_51_P314135 Treh,2210412M19Rik
A_51_P214715 Atp6v1e2,E1,Atp6e1,4930500C14Rik
A_51_P225056 F730031O20Rik
A_51_P248638 Myoz2,Myozl2,1110012I24Rik
A_51_P428595 4930413O22Rik
A_51_P479698 Lcn13,MGC41397
A_51_P160413 9930028C20Rik
A_51_P234888 2310003L22Rik
A_51_P198045 Rab28,MGC8039,2700023P08Rik
A_51_P345792 4930538D17Rik,4930449A08Rik
A_51_P225048 Zranb1,Gm1956,Trabid,D7Wsu87e,9330160G10Rik
A_51_P473195 Usp4,Unp,KIAA4155,mKIAA4155,F730026I20Rik
A_51_P396635 Tia1,mTIA-1,2310050N03Rik
A_51_P214725 Arpm2,Arp-T2,1700052K15Rik
A_51_P479659 Eif5b,IF2,A030003E17Rik
A_51_P490204 Pop5,Rnasep3,1500019J17Rik,2700077E03Rik
A_51_P428582 Ak3I1,Ak3,Ak4,Ak-3,Ak-4,D4Ertd274e
A_51_P358066 Mkl2,MRTF-B,KIAA1243,mKIAA1243
A_51_P422465 V1rc32
A_51_P143576 Rbm16,KIAA1116,mKIAA1116,A630086M08Rik,A93
A_51_P352782 Prkce,Pkce,PKC[e],5830406C15Rik
A_51_P377045 9430072K23Rik
A_51_P234864 Sfxn5,C230001H08Rik
A_51_P187082 G6pdx,G28A,G6pd,Gpdx
A_51_P111907 Slc22a17,BOIT,Boct,mBOCT,1700094C23Rik
A_51_P506483 Papln,E030033C16Rik
A_51_P258817 Ttpa
A_51_P320930 Trat1,Trim,Tcrim,C030046M14Rik

A_51_P396643 Ncstn,Nct,Aph2,Kiaa0253,mKIAA0253,9430068N19F
A_51_P436559 Punc,WI-14920,2810401C09Rik
A_51_P258841 Olfr459,MOR120-1
A_51_P111952 D7Rp2e,D7Rp2,RP2-r,RP2-s,D7Rp2-r,D7Rp2-s
A_51_P258806 2310020F24Rik
A_51_P214766 1200013A08Rik,MGC3047,1700095D18Rik
A_51_P411061 Lama5,[a]5,mKIAA0533
A_51_P160482 Vsig2,CTX,Ctm,1190004B15Rik,2210413P10Rik
A_51_P234833 Strn4,ZIN,zinedin
A_51_P506045 Pgcpc,Hls2,1190003P12Rik,2610034C17Rik
A_51_P202340 Pou5f1,Oct3,Oct4,Otf3,Otf4,Oct-3,Oct-4,Otf-3,Otf-4,C
A_51_P258829 Tmod4,MTMOD,Sk-Tmod
A_51_P187052 Fshb
A_51_P111962 Bean
A_51_P269173 Dibd1,8230402H15Rik,B430313H07Rik
A_51_P367980 Olfr1048,MOR187-2
A_51_P225134 Myh2,MHC2A,Myh2a,Myhs-f,Myhsf1,Myhs-f1,MyHC-
A_51_P513191 Hel308,MGC105224,D430018E21Rik
A_51_P269103 Apba2bp,Nip1,XB51,NECAB3,2900010M17Rik
A_51_P411072 Fchsd2,Sh3md3,mKIAA0769
A_51_P152444 4930465K10Rik
A_51_P428578 1810015C04Rik
A_51_P275527 Slc12a2,Nkcc1,mBSC2,sy-ns
A_51_P489903 Ogg1,Mmh
A_51_P358037 D930038M13Rik,TARSH,Abi3bp,5033411B22Rik
A_51_P444645 Lect1,ChM-I
A_51_P489909 Smc5l1,SMC5,MGC7569,MGC30442
A_51_P269153 Snapc2,0610007H10Rik
A_51_P214796 Suz12,KIAA0160,mKIAA0160,D11Ert530e,261002E
A_51_P225112 Egfl8,Ng3
A_51_P314192 Mrps10,Rpms10,1110038B19Rik
A_51_P332136 Zmat5,D11Bwg0572e,D11Bwg1548e,2610510L01Ri
A_51_P175424 Car14
A_51_P258894 Chst2,Chst2,GST-2,Gn6st,GlcNAc6ST,C130041E03
A_51_P235893 Arf4,Arl5
A_51_P327141 Zap70,Srk,TZK,70kDa,ZAP-70
A_51_P497113 Igf2bp1,Zbp1,Crdbp,IMP-1,CRD-BP,Neilsen,D11Mot
A_51_P187018 2010012C16Rik,mago,magoh
A_51_P411019 2310003P10Rik
A_51_P387952 Golgb1,KIAA4151,mKIAA4151,4930428L02Rik,6330
A_51_P464290 Ly6g6c,G6c,NG24,1110003M04Rik
A_51_P175442 A030003A19Rik
A_51_P358012 Serpina3m,3e46,MMCM7,Spi-2l,Spi2.4,MMSPi2.4,Si
A_51_P513181 5430420P03Rik,Plmp
A_51_P428505 Krtcap2,Kcp2,0610010I12Rik
A_51_P436521 Tmc2,CWEA2
A_51_P497152 Fgf9
A_51_P387913 A_51_P387913
A_51_P503883 4931414L13Rik
A_51_P367916 A930002I21Rik
A_51_P474053 1600014E20Rik
A_51_P451986 A830021K08Rik

A_51_P269134 Sftpb,SF-B,SP-B,Sftp3,Sftp-3
A_51_P299644 Ide,1300012G03Rik,4833415K22Rik
A_51_P503896 Pycr1,MGC11688
A_51_P497171 Ly9,Ly-9,T100,CD229,Lgp100,SLAMF3
A_51_P332100 Rb1cc1,Cc1,LaXp180,DRAGOU14,mKIAA0203,290C
A_51_P489935 Pax6,Dey,Sey,Pax-6,1500038E17Rik
A_51_P241306 Optc
A_51_P474078 Sepw1,selW
A_51_P332169 Nhsl1,KIAA1357,mKIAA1357,A730096F01,D10BwgC
A_51_P190509 Wfdc5,PRG5,WAP1
A_51_P442227 Slc12a1,Nkcc2,mBSC1,D630042G03Rik
A_51_P367901 Strc,DFNB16
A_51_P332140 Clcn2,Clc2
A_51_P135491 Cflar,Cash,FLIP,MRIT,CLARP,FLAME,Casper,I-FLIC
A_51_P503866 Edem1,EDEM,mKIAA0212,A130059K23Rik
A_51_P305437 Rcn1,Rcn
A_51_P299655 Ttc15,CGI-87,D930014A20Rik
A_51_P367977 C1ql3,C1ql,K100,AI661623,1110065A22Rik
A_51_P285097 1700123D08Rik
A_51_P344878 Thop1,EP24.15
A_51_P275591 Zfp292
A_51_P503822 Slitrk6,Sltk6,4832410J21Rik
A_51_P118765 Eef1a1
A_51_P118763 Elys,6230412P20Rik
A_51_P305472 Rpn2,Rpn-2,1300012C06Rik
A_51_P442246 4921508A21Rik
A_51_P285042 Gtl7
A_51_P401527 Rnmtl1,HC90,4833420N02Rik
A_51_P104608 Rnase6,9530043P15Rik
A_51_P299670 2610510H01Rik,mKIAA1470,2610529N02Rik
A_51_P437628 Uncx4.1,Chx4
A_51_P311362 4930449E01Rik
A_51_P349713 Impg1,SPACR,IMP150,A930015H12Rik
A_51_P118742 Drg2
A_51_P299632 4931426K16Rik
A_51_P175483 Gprk6,GRK6
A_51_P176337 Sox1,Sox-1
A_51_P285020 8430417A20Rik
A_51_P285027 Celsr2,mfmi1,KIAA0279,Flamingo1,mKIAA0279
A_51_P332185 C030040A15Rik
A_51_P118779 C330006K01Rik,KIAA0415,A530045M24
A_51_P367947 Arhgap29,Parg1,A830014I19,6720461J18Rik,B1300
A_51_P104670 Bop1,Erb1p,Kiaa0124,mKIAA0124
A_51_P241383 Barx2,Barx2b
A_51_P176377 Usp25
A_51_P299681 Nipbl,Idn3,4921518A06Rik,4933421G18Rik
A_51_P136680 4733401H21Rik
A_51_P246001 Cpe,CPH,fat,Cph1,Cph-1,MGC7101
A_51_P377579 6430559E15Rik,HT036,2700033B16Rik
A_51_P352636 Olfr397,MOR135-28
A_51_P130567 Olfr480,S25,Ors25,MOR204-32
A_51_P176365 Gimap5,D630024P16,E230026N22Rik

A_51_P295034 Ngfa,mGk-4,Klk1b4
A_51_P118727 Sr278
A_51_P352606 Cacna1e,Bll,Cach6,Cav2.3,Cchra1,alpha1E,Cacn1a
A_51_P349727 AW491445
A_51_P130556 4930563P21Rik
A_51_P148717 A830093I24Rik
A_51_P176352 Ndr2,Ndr2,SYLD
A_51_P118715 4930470D19Rik
A_51_P383800 Fancg,Xrcc9
A_51_P228086 Eea1,ZFYVE2,B230358H09Rik
A_51_P377557 D11Ertd636e,0610010C04Rik,1500000C01Rik
A_51_P130544 Gas5,Gas-5
A_51_P130546 Nrnx1,mKIAA0578,1700062G21Rik,9330127H16Rik
A_51_P176341 Syvn1,Hrd1,1200010C09Rik,D530017H19Rik
A_51_P118704 Cyp4b1
A_51_P104687 Gh
A_51_P513254 Rac1,D5Ertd559e
A_51_P382805 Zpbp2,ZPBPL,MGC107119,1700017D11Rik
A_51_P314065 1600020H07Rik,Hpcl
A_51_P228472 Igfbp3,IGFBP-3,IGgfbp3
A_51_P506532 Olfr1022,MOR196-1
A_51_P160536 1700026D08Rik
A_51_P386526 Wbscr16,5730496C04Rik
A_51_P377526 Sts
A_51_P506513 Qdpr,Dhpr,PKU2,D5Ertd371e,2610008L04Rik
A_51_P464530 Sept5,Pnut1,Cdcrel1,Cdcrel-1
A_51_P463941 Ing1,mING1h,p33Ing1,2610028J21Rik
A_51_P267346 Topors,LUN,TP53BPL,p53BP3/LUN
A_51_P513244 4930422I07Rik
A_51_P473072 2810032G03Rik
A_51_P314077 Zfp53,KRAZ1,zfas8,Zfp-53,Zfp118
A_51_P130524 1700102N10Rik
A_51_P148744 A930005I04Rik,Gm144
A_51_P267314 Tbc1d10c,1810062O14Rik
A_51_P314045 2310057J16Rik
A_51_P377547 Tank,I-TRAF,E430026L09Rik
A_51_P377528 Oprk1,KOR,R21,KOR-1,Oprk2
A_51_P352687 2810055G22Rik,UIP83,TRIAD3,Ubce7ip1,F830018F
A_51_P479598 2610312F20Rik,TORC3,BC011210,MGC19083,6332
A_51_P111612 Soat1,ald,Acact,ACAT-1
A_51_P479590 BC037006,KIAA0869,MGC47054,mKIAA0869
A_51_P403413 Pcdhb6,PcdhbF,Pcdhb5B
A_51_P200667 Cimn,KIAA1188,mKIAA1188,9330188N17Rik
A_51_P382859 NM_176898
A_51_P246066 Slamf9,Cd2f10,SF2001,CD2F-10,CD84-H1,2310026
A_51_P176387 5830454D03Rik
A_51_P479583 AW822216
A_51_P267338 Erbb2ip,Erbin,mKIAA1225,1700028E05Rik
A_51_P396141 Pte2b,Pte1b,PTE-Ib,B430212I04Rik
A_51_P382849 Emb,Gp70,MGC21425
A_51_P513211 Casc3,Btz,Mln51
A_51_P403443 Olig3,Bhlhb7

A_51_P519048 Ggnbp1
A_51_P267370 ltm2c,E25,BRI3,E25C,ITM3,3110038L02Rik
A_51_P267375 Pip5k2b,c11,PI5P4Kbeta
A_51_P143031 Eps8l3,Eps8r3
A_51_P118246 4930430E16Rik,MGC31583
A_51_P160576 Brsk2,SADA,SAD-A,4833424K13Rik
A_51_P478930 AK080016
A_51_P464576 Psen1,PS1,Ad3h,PS-1,S182
A_51_P403477 Dio1,D1,5DI,ITDI1,TXDI1,MGC107659
A_51_P143040 Olfr1126,MOR264-5
A_51_P160544 Efemp2,MBP1,0610011K11Rik
A_51_P177552 Ndufb9,1190008J14Rik
A_51_P246092 1700025F22Rik
A_51_P186053 2810430M08Rik
A_51_P464558 Chst9,5430438D01Rik
A_51_P177562 Cpt1c,MGC101932,6530437J22Rik,9630004I06Rik
A_51_P225123 Psmc10
A_51_P200622 Bloc1s2,BLOS2,2410089B13Rik
A_51_P314019 Banf1,BAF,Bcrp1
A_51_P143023 Rab11fip2,nRip11,Rab11-FIP2,4930470G04Rik,A83l
A_51_P513224 D030051D21
A_51_P479541 LOC238771
A_51_P478920 Sec15l1,EXOC6,Sec15,msec15,C430002C19,48334
A_51_P225179 Smndc1,2410004J23Rik,4933440I19Rik
A_51_P478978 Psme4,TEMO,mKIAA0077
A_51_P506593 6330439K17Rik
A_51_P458638 C630041L24Rik
A_51_P177518 0610009E20Rik,0610025L18Rik
A_51_P477978 AK078141
A_51_P275454 Trim30,Rpt1,Rpt-1
A_51_P479528 2410127E18Rik,KIAA0265,mKIAA0265
A_51_P187352 Kcnma1,Slo,Slo1,mSlo,MaxiK,mSlo1
A_51_P497090 2310040A07Rik
A_51_P109295 Pcdhb3,PcdhbC
A_51_P470475 4933426G20Rik
A_51_P225209 Nipsnap3a,Nipsnap3b,2700063N13Rik
A_51_P411355 Taf1c,Tafi95,mTAFI95
A_51_P428056 LOC380821
A_51_P436254 1110018F16Rik
A_51_P160592 4930488L21Rik,4930452J22Rik
A_51_P275427 BC016608,MGC27981
A_51_P130595 Oplah,MGC28663,MGC36824,1700010G02Rik
A_51_P478952 B230342M21Rik
A_51_P479519 Itgb8,4832412O06Rik
A_51_P411345 Mogat2,MGAT2,Mgat1I,DGAT2L5
A_51_P195843 Nfatc2,NFAT1,Nfatp,NFAT1-D
A_51_P436201 Gart,Gaps,Prgs
A_51_P269273 Acr
A_51_P377596 2900016D05Rik
A_51_P215922 Casp6,Mch2,mCASP-6
A_51_P248986 Hnrn,S100a18,S100a18-ps1,1110033K19Rik,A53006
A_51_P470448 Als4,AOA2,SETX,Sen1,SCAR1,A130090N03,A9300

A_51_P241074 Map2k1,Mek1,MEKK1,MAPKK1,Prkmk1
A_51_P258570 Prss18,Bssp,Klk6,Klk7,Klk29,Prss9,neurosin
A_51_P470443 9530020D24Rik,Rab9p40,8430412M01Rik
A_51_P242166 Lap3,LAP,LAPEP,2410015L10Rik
A_51_P411306 6330442E02Rik
A_51_P275435 2310007B03Rik,MGC107226
A_51_P510518 Fabp9,PERF,Tlbp,1700007P10Rik
A_51_P241068 Dkk2
A_51_P444565 C920025E04Rik
A_51_P470432 Pdlim4,Ril
A_51_P497039 Mpp3,Dlgh3,6430514B01
A_51_P411335 Olfr61,IH7,MOR253-1
A_51_P175988 Htr3a,5-HT3
A_51_P497006 Srd5a2,5ART2
A_51_P225186 Calcrl,CRLR
A_51_P436269 Grin2c,NR2C,NMDAR2C
A_51_P436263 Olfr790,MOR112-1
A_51_P258512 AK086336
A_51_P269257 4930579G18Rik
A_51_P258551 Papss2,bm,Sk2,AtpsU2,Atpsk2,code642,AI159688,1
A_51_P182296 2900091E11Rik,5730495F03Rik
A_51_P269216 Atf5,AFTA,Atf7,Atfx,ODA-10,MGC102397
A_51_P271425 Lhfp14,KIAA4027,MGC65621,mKIAA4027,B230384L
A_51_P470414 Aldh7a1,Atq1,D18Wsu181e
A_51_P428013 Eml2,1600029N02Rik
A_51_P411316 Sprr2k
A_51_P269203 Trpv4,Trp12,VRL-2,VROAC,OTRPC4,VR-OAC,0610
A_51_P392928 Mthfd1,DCS,Mthfd,NEUT2,E430024A07Rik
A_51_P497061 Ppp2r2d,MDS026,D7Erttd753e,1300017E19Rik
A_51_P262144 Ddx19b,2810457M08Rik,4921519L13Rik
A_51_P250848 BC002118,MGC6623
A_51_P104727 Ehbp1,NACSIN,Flj21950
A_51_P250832 Nol6,Nrap
A_51_P282092 Urod
A_51_P262131 Olfr1443,MOR202-8
A_51_P250860 Kir12
A_51_P121031 March1,2900024D24Rik
A_51_P121915 CRAD-L,MGC107618
A_51_P365844 Olfr1216,MOR233-9
A_51_P411389 5730437N04Rik,1110008A10Rik,2310046K16Rik
A_51_P175974 D4Erttd151e
A_51_P362638 Trf,HP,Tfn,hpx,Cd176,MGC102653
A_51_P305731 1300010K09Rik
A_51_P285190 2610016F04Rik,Pb1
A_51_P262111 Foxf1a,Hfh8,Foxf1,HFH-8,FREAC1,Freac-1,AI45082
A_51_P332075 Plekhc1,Mig2,MGC36305
A_51_P121900 BC016188,MGC27560,MGC38983
A_51_P275496 BC026762
A_51_P131408 Tnfrsf12a,Fn14,HPIP,TweakR,TWEAK-R
A_51_P344947 Rab1b,1110011F09Rik
A_51_P362671 Kcna6,Kv1.6,MK1.6
A_51_P175945 B230382K22Rik

A_51_P305777 Syne1,8B,CPG2,Myne1,SYNE-1,SYNE-1B,KIAA175
A_51_P104747 Gtf2h4,p44,p52,TFIIH
A_51_P349281 LOC380969
A_51_P148093 Ptpm,RPMPmu,KIAA4044,MGC90724,mKIAA4044
A_51_P121058 Trip6
A_51_P362661 9630042H07Rik
A_51_P332081 Cbl,Cbl-2,c-Cbl,4732447J05Rik
A_51_P104710 Scospondin
A_51_P228385 Pum2,Pumm2,mKIAA0235,5730503J23Rik
A_51_P250807 2610039E05Rik,KIAA4138,mKIAA4138
A_51_P262101 Ptdc2,1190005P08Rik
A_51_P148089 4930563A03Rik
A_51_P176225 2410089E03Rik
A_51_P517878 Nkx2-9,Nkx2.9,tinman,Nkx-2.9
A_51_P118664 4833408C14Rik
A_51_P104768 LOC432704
A_51_P182244 Cdgap,5830477L08Rik
A_51_P473308 Prss21,mT4,TEBP5,testisin,1700023E12Rik
A_51_P285137 6430411K14Rik
A_51_P228333 AK085302
A_51_P332091 6030426L16Rik
A_51_P362698 4930429H24Rik,1110046J11Rik,6530402O20Rik
A_51_P176231 4933409N07Rik,mKIAA1392
A_51_P118671 Arid1a,Osa1,Smrcf1,1110030E03Rik
A_51_P266717 2310057G13Rik
A_51_P387437 Sbsn,1110005D19Rik
A_51_P176202 1700008J08Rik
A_51_P387450 Abi2,MGC90836,MGC90855,C130078H13,8430425I
A_51_P130447 C920006O11Rik
A_51_P398376 Clec5a,Mdl1,Ly100,MDL-1,Clecsf5
A_51_P118603 9430077D24Rik
A_51_P345549 Nkd2,2210403L10Rik
A_51_P148069 Lpgat1,MGC18768
A_51_P104786 Rsh1,RSP4
A_51_P473363 Olfr1264,Mor16,Ors16,MOR236-1
A_51_P481494 Robo3,Rbig1,Rig-1
A_51_P262196 Pex11b
A_51_P398366 Tyms,TS
A_51_P197718 Nkx2-2,Nkx2.2,tinman,Nkx-2.2
A_51_P182257 1700019N12Rik
A_51_P118650 Wdr6
A_51_P119857 Spred1,5730461F13Rik
A_51_P352158 lqwd1,PC326,1200006M05Rik
A_51_P451847 1200009K13Rik,Pairbp1,9330147J08Rik
A_51_P349205 Mbp,mld,shi,Hmbpr,shiverer,golli-mbp
A_51_P382912 Slc2a10,Glut10
A_51_P349213 Fcrl1,Fcrh1,IFGP1,BXMAS1,FcRH1L,FcRH1S,mBXI
A_51_P130427 Psm3,Psd3,AntP91a,Tstap91a,D11Bwg1349e
A_51_P422629 Tbp1,STD,TLF,TRP,Tlp,TRF2,4732475G08
A_51_P276831 C030018L16Rik,Bite,6720484E09Rik
A_51_P422625 Arl11,ARLTS1,C730007L20Rik
A_51_P200134 Snrpg,SMG,2810024K17Rik

A_51_P119841 lapp,amylin
A_51_P267033 L3mbtl,L3MBTL1,KIAA0681,mKIAA0681,C630004G
A_51_P382928 Cstf3,MGC6373,4732468G05Rik
A_51_P382925 Fadd,Mort1/FADD
A_51_P214755 Rnf38,Oip1,1700065B19Rik,2610202O07Rik
A_51_P115315 Macf1,Acf7,MACF,Aclp7,mACF7,ABP620,mKIAA046
A_51_P377641 2900092C05Rik
A_51_P130475 Wnt4,Wnt-4
A_51_P349262 Mtx1,Mtx,Gcap6
A_51_P282286 1700028O09Rik,Tep22
A_51_P422639 Hivep3,Rc,Krc,KBP1,Zas3,A130075N07,2900056N0
A_51_P267024 Pafah1b3,Pafahg,mus[g]
A_51_P248484 1700054F22Rik
A_51_P402943 S100a9,p14,Cagb,GAGB,L1Ag,BEE22,MRP14,60B8
A_51_P403536 Ltbp4,2310046A13Rik
A_51_P267063 Ugt3a2,MGC37820
A_51_P258698 Phf8,mKIAA1111,9830141C09Rik
A_51_P258690 Scrg1
A_51_P197745 Ssh1,SSH-1,Gm1394,Gm1395,mSSH-1L
A_51_P403504 Olfr895,MOR170-1
A_51_P215995 Zswim6,mKIAA1577,2900036G02Rik
A_51_P267017 Tbr1
A_51_P228351 B230332M13
A_51_P160255 D830007F02Rik,MLCK
A_51_P228354 Trp53inp2,1110029F20Rik
A_51_P412999 2610036E23Rik
A_51_P130459 Vdac1,Vdac5
A_51_P481418 Arhgap21,ARHGAP10,5530401C11Rik
A_51_P202574 Al467503,9430053K19
A_51_P461031 Ostm1,gl,HSPC019,1200002H13Rik
A_51_P160202 Nsf,SKD2
A_51_P479464 Cdc2l6,CDK11,mKIAA1028,2700084L06Rik
A_51_P143341 2810410C14Rik,FLJ00377,mFLJ00377
A_51_P215975 Chrd,Chd
A_51_P276873 Olfr802,MOR111-1
A_51_P464064 3110050K21Rik,2600010B19Rik,4930570G11Rik
A_51_P225276 Dnajc10,JPDI,ERdj5,D2Ertd706e,1200006L06Rik
A_51_P119882 4732454E20Rik,Gm643
A_51_P403564 Lhx5,Lim2
A_51_P422666 Akr1b3,AR,ALR2,Ahr1,Ahr-1,Aldr1,Akr1b1,Aldor1
A_51_P473383 Odz4,Doc4,ELM2,l7Rn3,Ten-m4,l(7)-3Rn,mKIAA130
A_51_P160272 6430548G04
A_51_P197773 Parp6,1700119G14Rik,2310028P13Rik,3110038K1C
A_51_P160216 Dbpht1,Spot1,Spot-1
A_51_P275764 Acpp,Lap,PAP,Ppal,A030005E02Rik
A_51_P386670 Sart2,6030499O08,B130024B19Rik
A_51_P403578 1810059H22Rik
A_51_P345593 Sptlc1,Lcb1,E030036H05
A_51_P225224 Prss11,L56,HTRA,HtrA1,RSPP11
A_51_P200166 9430083G14Rik
A_51_P382970 Itga9,(alpha)9,D130073C02,D9Ertd428e,2610002H1
A_51_P479444 lhh

A_51_P160223 NAP057140-1
A_51_P412947 Ewsr1,Ews,Ewsh
A_51_P214516 Nipsnap1
A_51_P396003 Dgat2,DGAT-2,0610010B06Rik
A_51_P396000 Me3,1700020C08Rik,B230207H15Rik
A_51_P267053 Thbs3,Thbs-3
A_51_P202541 Polr3e,Sin,RPC5
A_51_P481417 5430402E10Rik
A_51_P377620 Ifi205,D3,D3cDNA
A_51_P412955 Plcb4,A930039J07Rik,C230058B11Rik
A_51_P275740 Ubqln1,DA41,Dsk2,XDRP1,Plic-1,D13Ertd372e,111C
A_51_P412914 Efs
A_51_P422691 AK053709
A_51_P215849 Il17b,Zcyto7,1110006O16Rik,1700006N07Rik
A_51_P267080 Ecgf1,PDECGF,Pdgfec,PD-ECGF,2900072D10Rik,4
A_51_P436767 Olfr1377,MOR129-1
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A_51_P377699 E230024E03Rik
A_51_P386648 2010001H14Rik
A_51_P481448 Obox3
A_51_P225232 2210006M16Rik,Gsdm2,Gsdml2,2200001G21Rik,22
A_51_P215896 1700023B23Rik
A_51_P160284 Tcof1,treacle
A_51_P374101 Pard6b,Par6b
A_51_P275729 Gm107
A_51_P411271 Nfe2l2,Nrf2
A_51_P506618 V1rg8
A_51_P479434 Rfc3,38kDa,2810416I22Rik
A_51_P481463 Dncl1,LIC-1,MGC32416,1110053F02Rik
A_51_P479406 Hoxd12,Hox-4.7,Hox-5.6
A_51_P422685 Zmat4,MGC90808,9630048M01Rik
A_51_P267098 AK033125
A_51_P269375 Ank1,nb,Ank-1
A_51_P269356 Olfr846,MOR149-3
A_51_P497756 Olfr539,MOR253-4
A_51_P461082 ORF34,D930001I21Rik
A_51_P428316 4930539N22Rik
A_51_P411253 Pea15,Mat1,PEA-15,Pkcs15
A_51_P269320 Adsl
A_51_P130497 Cnbp2,4930513O09Rik
A_51_P510402 Atpaf1,ATP11,ATP11p,6330547J17Rik
A_51_P497741 4930434E21Rik
A_51_P200186 Flg
A_51_P428345 Mbnl1,Mbnl,mKIAA0428
A_51_P411225 Waspip,WIP,D2Ertd120e
A_51_P436727 Arrb1,1200006I17Rik,G430100A01Rik
A_51_P258671 Rsu1,rspl-1
A_51_P428305 Insl5,RIF2
A_51_P510418 Aldh1b1,MGC101971,2700007F14Rik
A_51_P332742 Srl,sar,9830004M20Rik
A_51_P258620 Rab4b,1500031G17Rik
A_51_P269303 Sidt2,CGI-40,MGC36407,MGC58967,B930096O19

A_51_P236836 E030012M19Rik,Gm511
A_51_P214580 2510001I10Rik,1110018O08Rik
A_51_P374137 Bcmo1,Bcdo,Bcdo1,beta-CD,betaCMOOX
A_51_P497768 A530057A03Rik,Gm116
A_51_P428364 Psm6,IOTA
A_51_P411200 0610009A07Rik
A_51_P428360 Retnlb,Xcp3,Fizz2,Relmb,RELMbeta,9030012B21Ril
A_51_P241101 I54
A_51_P376313 Med8,ARC32,MNCb-2386,2210021A15Rik
A_51_P181538 Wdr9,5330419I02Rik,D530019K20Rik
A_51_P233928 Galgt1,Ggm2,Ggm-2,GalNAcT,GalNAc-T,Gal-NAc-T
A_51_P497724 9130022K13Rik
A_51_P510466 Pldn,pa,pallid,Stx13bp1
A_51_P146223 Krtdap
A_51_P318966 Cd19
A_51_P510437 Slc25a15,Ornt1,D630044L02Rik
A_51_P146208 li,CD74,CLIP,DHLA,HLADG,Ia-GAMMA
A_51_P510441 Suv39h1,mIS6,DXHXS7466e
A_51_P436790 Olfr144,K4,MOR171-41P
A_51_P426130 Muc5ac,MGM,2210005L13Rik
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A_51_P436796 Plrg1
A_51_P491144 4732486I23Rik
A_51_P510485 2310047I15Rik
A_51_P305250 Kctd5,mKIAA0176,2610030N08Rik
A_51_P137887 Tenr
A_51_P332717 Ugcg,Ugcgl,Epcs21,GlcT-1
A_51_P374190 A930008G19Rik,MGC40647,mKIAA0140
A_51_P376321 Xylt2,XT2,XT-II,xylT-II,E030002B02Rik
A_51_P268673 2210016H18Rik
A_51_P109144 Grtp1,Tbc1d6,5430401C05Rik
A_51_P233939 4930451G09Rik
A_51_P305262 AF206032
A_51_P442072 AU051595
A_51_P182303 Col1a2,oim,Cola2,Cola-2,Col1a-2
A_51_P362738 Dusp18,DUSP20,LMWDSP20,4930527G07Rik
A_51_P299454 Bcl2l1,BclX,Bcl2l,bcl-x,Bcl-XL,Bcl-Xs,MGC99998,MC
A_51_P153702 A_51_P153702
A_51_P121325 Mrps25,Rpms25,2810429N01Rik
A_51_P343474 Krt2-17,Krt2e,Krt2-2
A_51_P470905 2310043I08Rik
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A_51_P241111 A1838661
A_51_P398201 Mrpl53,1110007K17Rik
A_51_P436785 Ttc17,D2Bwg1005e,9130020K17Rik
A_51_P241117 4930517K23Rik,Gm115
A_51_P121359 5830416A07Rik,1190001B23Rik
A_51_P299400 6720475J19Rik
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A_51_P182311 Clec2i,Clrg,Dcl1,Clr-g,LCL-1,OCILrP2
A_51_P121397 Mrps17,Mprs17,1810006P02Rik
A_51_P104012 2310037P21Rik

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A_51_P176549 Akap8,AKAP95,1200016A02Rik
A_51_P411297 Nup50,Npap60,1700030K07Rik
A_51_P473229 Thpok,Zfp67,c-Krox,MGC102577
A_51_P343497 Eprs,Qprs,2410081F06Rik,3010002K18Rik
A_51_P299432 Zmym1,5830412B09Rik
A_51_P305213 1810010H24Rik
A_51_P305217 Hoxd1,Hox-4.9
A_51_P189943 Dscam,4932410A21Rik
A_51_P470966 Zfp472,Krim1,KRIM-1,Krim-1A,Krim-1B
A_51_P153734 Kif23,CHO1,Knsl5,MKLP1,MKLP-1,3110001D19Rik
A_51_P197816 2610020N02Rik
A_51_P332799 Clptm1,N14
A_51_P464539 Phldb2,LL5b,LL5beta,C820004H04Rik
A_51_P228682 2310002L09Rik,2310003M01Rik
A_51_P398235 Dnajc11,E030019A03Rik
A_51_P305239 4931403M11Rik
A_51_P473205 Vipr2,Vip2,VPAC2,VPAC2R
A_51_P299411 Olfr669,MOR34-6
A_51_P362771 D3ErtD300e
A_51_P470947 Olfr1396,MOR276-2
A_51_P233954 Sesn1,PA26,SEST1,1110002G11Rik
A_51_P228658 Isyna1,1300017C10Rik
A_51_P352005 Hsd3b4
A_51_P176513 2610205E22Rik,MGC25577
A_51_P349528 Rnase10,4930474F22Rik
A_51_P246224 Tram2,MGC25725,C330003D03Rik
A_51_P208020 Ulk3,1200015E14Rik
A_51_P442097 Slc41a3,SLC41A1-L2,1010001P06Rik
A_51_P442091 Snx13,mKIAA0713
A_51_P148163 2410006F12Rik
A_51_P137800 C330005M16Rik
A_51_P153765 Car13,2310075C21Rik
A_51_P115049 Eva1,Eva,Mpzl2
A_51_P228632 Rap1a,G-22K,Krev-1,MGC102329
A_51_P349505 Psg30
A_51_P352027 C85308
A_51_P148176 Scn3a
A_51_P182371 Defcr-rs12
A_51_P176537 4931420D14Rik,Cypt1,Ckt1r3,MGC74194
A_51_P215887 Aldh18a1,Pyics,MGC32233,2810433K04Rik
A_51_P473272 Tspan6,T245,Tm4sf,Tm4sf6,TSPAN-6
A_51_P160344 Prr6,3110013H01Rik
A_51_P352076 Itgae,CD103,alpha-E1,A530055J10
A_51_P176522 Zfp278,Mazr,PATZ,8430401L15Rik
A_51_P153787 1110008B24Rik
A_51_P246215 Polr2i,MGC73656,2810002B19Rik
A_51_P473240 Zfp426,KRAB1,Zfo61,KIAA4237,MGC38791,Zfp68-rs
A_51_P228604 9130012D09Rik
A_51_P503368 Vps35,Mem3
A_51_P403260 Diap3,Dia2,mDia2,KIAA4117,mKIAA4117,p134MDia

A_51_P267114 AK033311
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A_51_P167922 BC027057,MGC32345,MGC37193
A_51_P215863 AK079230
A_51_P197899 1700028N14Rik
A_51_P267169 Sgpp2,Spp2,SPPase2,MGC59240
A_51_P473259 Dpyd,DPD,MGC37940,E330028L06Rik
A_51_P473252 Zyx,9530098H06Rik
A_51_P160363 Utrn,DRP,Dmdl
A_51_P148122 Klhdc3,Peas,1300011D16Rik
A_51_P403243 4930432J16Rik
A_51_P200477 TC1048676
A_51_P513041 Dnajc1,MTJ1,ERdj1,Dnajl1,4733401K02Rik,D230030
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A_51_P176583 1700109H08Rik
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A_51_P464340 Abcc10,Mrp7
A_51_P422540 1700019B16Rik,3110001D06Rik
A_51_P312166 Pias1,GBP,Ddxbp1,2900068C24Rik
A_51_P145988 V1rd7,V3R7
A_51_P160372 Wbp1
A_51_P422578 Slc22a20,Gm963,mOAT6,OAT1-L,MGC54868
A_51_P349546 Cd109,GARP,9930012E15Rik
A_51_P396375 Myo18a,MyoPDZ,MysPDZ
A_51_P200447 Pkib,PKIbeta,Prkacn2
A_51_P112662 Sp3,MGC105187
A_51_P258381 Jarid1a,RBP2,Rbbp2,MGC11659
A_51_P323221 Phactr4,N28169,KIAA4120,mKIAA4120,3110001B12
A_51_P268595 C530025M11Rik
A_51_P267189 Zfy2,Zfy-2
A_51_P513000 Ntng1,Lmnt1,MGC99878,A930010C08Rik
A_51_P296517 9530027K23Rik
A_51_P296512 Chm,Rep-1
A_51_P481546 Lass5,Trh4,2310081H14Rik
A_51_P403228 5730421E18Rik
A_51_P267159 Rce1,D19ErtD98e,D19ErtD283e,9030625N01Rik
A_51_P464361 Fuk,1110046B12Rik
A_51_P335981 4430402O11Rik,Narf
A_51_P345805 Xcr1,GPR5,Cxcr1
A_51_P464588 ORF28,MGC27620
A_51_P258359 Hus1b
A_51_P187151 Grb10,Meg1,mKIAA0207,5730571D09Rik
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A_51_P267194 Faim,Faim-L,Faim-S
A_51_P335945 Pag1,Pag,F730007C19Rik
A_51_P109496 1700029I01Rik
A_51_P275623 Gne,NM,DMRV,IBM2,Uae1,GLCNE,2310066H07Rik
A_51_P323248 Sdc4,Synd4,ryudocan,syndecan-4
A_51_P296528 Lass4,Trh1,2900019C14Rik

A_51_P282144 Adam23,MDC3
A_51_P187184 Taok2,PSK,PSK1,TAO1,TAO2,MAP3K17,KIAA0881,
A_51_P436447 9030612M13Rik,mKIAA3006,4732483N19
A_51_P275679 Rassf5,Rapl,Maxp1,Nore1,Nore1A,Nore1B,MGC107
A_51_P481563 AK035983
A_51_P214679 3110003A17Rik
A_51_P464308 Gnb4,G(beta)4,6720453A21Rik
A_51_P481569 Ddx42,RHELP,RNAHP,SF3b125,1810047H21Rik,B4
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A_51_P464300 Gdf1,Gdf-1,UOG-1
A_51_P422588 Prkwnk1,Wnk1,mKIAA0344,6430573H23Rik
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A_51_P335900 Cox5a
A_51_P323281 Usp45,Gcap7,3110003C05Rik,4930550B20Rik
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A_51_P359919 Dars,5730439G15Rik
A_51_P510722 1110008J03Rik
A_51_P464394 AV071179,Klb
A_51_P464398 Cdkl3,MGC28957,B230379H01Rik
A_51_P374014 Eprs
A_51_P335916 Mrpl46,LIECG2,P2ECSL,C15orf4,3110052F15Rik
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A_51_P228276 Gbas,Nipsnap2
A_51_P374026 Syt11,1500004A13Rik,3632445O20Rik,5430404N14
A_51_P335969 Des
A_51_P258348 Grik3,Glur7,Glur-7,GluR7-3
A_51_P296549 Kcnn1,SK1,MGC115869
A_51_P214663 Tpm1
A_51_P436469 Al317395,MGC25869
A_51_P275658 Deaf1,NUDR,suppressin,C230009B13Rik
A_51_P449048 Cndp2,Cn2,0610010E05Rik
A_51_P510713 lsg20,20kDa,DnaQL,HEM45,1600023I01Rik,201010
A_51_P225380 Ccr8,mCCR8,Cmkbr8
A_51_P187121 Gjb4,Gjb-4,Cx30.3,Cnx30.3
A_51_P146303 1110012M11Rik,MGC99951
A_51_P200484 Lrp12,C820005L12Rik
A_51_P513085 2810037C03Rik,Slid5,4933405K01Rik
A_51_P506733 P2rx7
A_51_P200494 Klk1,TK,mK1,mGK-1,Klk1b1
A_51_P332664 Cib3,KIP3,Gm1107,C730014M21Rik
A_51_P109412 Krtap8-2
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A_51_P387690 Tbp1,STD,TLF,TRP,Tlp,TRF2,4732475G08
A_51_P318860 Zfp9,Zfp-9,Krox-4,mszf79-2,1810048F22Rik
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A_51_P146320 Sema4d,CD100,Semaj,Semcl2,coll-4,Semac12
A_51_P109469 Fgfr1,FLG,Flt-2,Fgfr-1
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A_51_P332602 Surf1,Surf-1,0610010F23Rik
A_51_P503953 2310028H24Rik
A_51_P109439 Olfr554,MOR25-1
A_51_P305537 St3gal2,Siat5,AI429591,ST3Gall
A_51_P109888 Coro1b
A_51_P520849 Sfrp2,Sdf5
A_51_P332676 Top1mt,2900052H09Rik
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A_51_P362423 Mtl5,tesmin
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A_51_P104162 AK053379
A_51_P109421 Lgtn,D1Ertd5e
A_51_P436483 Kin,Kin17
A_51_P376238 Serping1,C1nh,C1INH
A_51_P104125 2810485I05Rik
A_51_P121622 Rsc1a1,RS1,mRS1,1700027M01Rik
A_51_P456721 Azgp1
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A_51_P305508 Rerg
A_51_P138933 Ppp1r3b,GL,6430576E21
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A_51_P266579 Kctd16,4930434H12Rik
A_51_P104172 Zfp128,Znf8,mZnf8,MGC113768,9630016P15Rik
A_51_P121635 Maged2,ORF1,Mage-d2
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A_51_P233846 Olfr1491,MOR266-8
A_51_P305572 Cox7b,MGC107263,1100001F07Rik,1110004F07Rik
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A_51_P510782 Card10,Bimp1,CARMA3
A_51_P146382 2610005L07Rik,2810038F24Rik,6720476A01Rik
A_51_P104128 Oaz1,Oaz,AZ-1,ODC-Az,Antizyme
A_51_P305547 Snai2,Slug,Slugh
A_51_P377475 V1rl1,V1rd2
A_51_P349073 Endog
A_51_P148264 Son,mKIAA1019,2900011L12Rik
A_51_P246119 Cenpf,CENF,Lek1,PRO1779,6530404A22Rik
A_51_P176459 Myst4,qkf,Morf,querkopf,mKIAA0383,B130044K16Ri
A_51_P398164 Khlh2,Mav,KIAA4249,ABP-KELCH,mKIAA4249,6030
A_51_P387608 Hif1a,MOP1,HIF-1alpha
A_51_P253984 Pcp4,Pcp-4,P16Rimb19
A_51_P170795 Wdr40b,9330180J20,A230038L21Rik
A_51_P473554 5330430C04Rik
A_51_P398118 V1rh9

A_51_P456753 Bdkrb2,B2,B2R,BK2,B(2),BK-2,BK2R,BKR2,BRB2
A_51_P503922 Rcvrn,CAR,S-modulin
A_51_P138909 4632413I24Rik
A_51_P464234 Fkbp2,13kDa,mFKBP2,mFKBP13
A_51_P473576 Apex1,APE,Apex,HAP1,Ref-1
A_51_P387648 Htf9c
A_51_P267644 Gpx5,Arep
A_51_P412966 Lrrn1,NLRR-1,2810047E21Rik
A_51_P138952 Lrriq2,2810403B08Rik,4932439K18Rik,E130116N02
A_51_P352357 Ldhal6b,LDHL,Ldhal,4933402O15Rik
A_51_P377452 Ncf4,p40phox
A_51_P176425 Txnl1,Txnl,32kDa,TRP32
A_51_P197528 Ly6c,Ly-6C
A_51_P228574 Tat,MGC37772,MGC37789,MGC37790,MGC37819,
A_51_P506899 Hspa12a,mKIAA0417,1700063D12Rik
A_51_P376299 Gpr24,MCHR1,Mch1r,MCH-1R,Gpr24-9
A_51_P197538 Evc2,Lbn,limbin,1110017L09Rik
A_51_P182079 Slc24a2,2810021B17Rik
A_51_P362483 Slc43a1,PB39,Pov1,R00504,2610016F07Rik
A_51_P349023 Lsm3,SMX4,USS2,1010001J12Rik,6030401D18Rik
A_51_P352303 Homer2,CPD,Vesl-2,Cupidin
A_51_P377443 V1re7,V1re5
A_51_P305587 Zcchc7,D4Wsu132e
A_51_P349036 Snapc4,5730436L13Rik
A_51_P252519 Rad51c,Rad512
A_51_P197509 5330414D10Rik,MGC36470
A_51_P200757 Wdhd1,AND-1,A630092E18,D630024B06Rik
A_51_P473528 Ahcy,CuBP,SAHH
A_51_P422042 Olfr1255,MOR232-4
A_51_P267653 Olfm3,B230206G02Rik
A_51_P396284 Chd3,Chd7,Prp7,Prp9-1,MGC40857,2600010P09Rik
A_51_P360092 Olfr1403,MOR267-8
A_51_P352324 Slc16a2,Mct8,Xpct
A_51_P106918 Rex2
A_51_P282227 As3mt,Cyt19,2310045H08Rik
A_51_P349008 Ptges2,GBF1,PGE2,GBF-1,MGC6845,0610038H10F
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A_51_P273790 Pbsn,PB,Prbs
A_51_P412926 Krt1-c29
A_51_P104197 BC038479,MGC47419
A_51_P396297 Hsd1l,2700067E09Rik
A_51_P506822 Ugt8,Cgt,mCerGT
A_51_P208377 Trappc5,TRS31,4021401A16Rik
A_51_P160042 B130055L09Rik
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A_51_P349015 Pacrg,1700008H23Rik
A_51_P183985 1500009C09Rik
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A_51_P422067 9430034F23Rik
A_51_P200776 Grsf1,D5Wsu31e,B130010H02
A_51_P349001 Olfr616,MOR19-1
A_51_P143135 9930021D14Rik

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A_51_P143162 Myh7,Myhcb,Myhc-b
A_51_P228524 4933440M02Rik
A_51_P176487 Pcnx,Pcnx1,2900024E21Rik,3526401J03Rik
A_51_P214557 Oit3,LZP,EF-9
A_51_P506835 Tdpoz1,Spopl1,2cpoz56
A_51_P143152 Luzp1,Luzp,2700072H04Rik
A_51_P396225 Olfr910,MOR165-3
A_51_P112529 Pitpnm2,NIR3,Rdgb2,RDGBA2,mKIAA1457
A_51_P449194 D430001L07Rik
A_51_P214365 Suhw4,ZNF634,MGC36902,A930005F02Rik
A_51_P365992 9430057O19Rik,4930455N08
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A_51_P252565 Alox15,12-LO,L-12LO,Alox12l
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A_51_P143142 Mrpl12,Rpml12,MRP-L12,0610034O11Rik,1500031N
A_51_P198453 Obox6
A_51_P386069 Rab9b,9330195C02Rik
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A_51_P481679 Angptl3,hypl
A_51_P252586 Olfr1484,MOR202-37
A_51_P214302 Evx2,Evx-2
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A_51_P377489 Ptplb,6330408J20Rik
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A_51_P374335 Olfr354,MOR127-4
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A_51_P234763 Nalp4c,Rnh2,Nalp-alpha
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A_51_P291936 Ganab,G2an,Glull,mKIAA0088
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A_51_P143190 Lyl1,Lyl-1
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A_51_P496905 Cfi
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A_51_P291906 Tlr3
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A_51_P461319 Gatm,AT,1810003P21Rik
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A_51_P404023 Aps
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A_51_P175871 Got2,Got-2,mAspAT,FABP-pm,MGC102129,MGC11
A_51_P362566 6030460N08Rik
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A_51_P351970 Hells,LSH,Lysh,PASG,YFK8,E130115I21Rik
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A_51_P232384 Hrbl,RABR,MGC7148,MGC61203,A630095P14Rik
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A_51_P121198 Arl10a,Arm1,Arl10
A_51_P332580 Polr3f,RPC6,RPC39,MGC11656,2810411G20Rik,30
A_51_P176711 1200007B05Rik
A_51_P412895 Olfr1101,MOR179-3
A_51_P138859 2010300G19Rik
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A_51_P349319 V1ri5
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A_51_P258150 Adfp,ADPH,Adrp
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A_51_P214487 Sept2,Nedd5,mKIAA0158
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A_51_P146103 lrf1,lrf-1
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A_51_P359756 1700007B14Rik
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A_51_P457989 Rragd,D4Ertd174e,5730543C08Rik,C030003H22Rik
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A_51_P362202 Mobkl2c,MOB3C,D130076I06Rik
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A_51_P457975 6.03E+24
A_51_P152845 Trim24,TIF1,Tif1a,AI447469,A130082H20Rik,D4300
A_51_P362278 Rps2,Llrep3
A_51_P146149 Napsa,KAP,Kdap,NAP1,SNAPA,napsin,pronapsin
A_51_P492026 Clcn6
A_51_P121447 1110038F14Rik
A_51_P343598 1500009L16Rik,2700050C19Rik
A_51_P214503 6030440P17Rik
A_51_P387072 E330017N17
A_51_P182662 Nck1,Nck,6330586M15Rik,D230010O13Rik
A_51_P152802 Lsm6,1500031N17Rik,2410088K19Rik
A_51_P228792 BC020025,MGC27854
A_51_P182658 V1re8
A_51_P167292 Chi3l3,Ym1,ECF-L
A_51_P398753 Olfr955,MOR171-34,MOR171-50
A_51_P176661 C430004E15Rik,MGC107193
A_51_P152826 Golt1b,CGI-141,2310061A22Rik
A_51_P332419 2610510B01Rik,C21orf5,mKIAA0933,0610038M01R
A_51_P153693 Utp14b,jsd,4932411L21Rik
A_51_P305320 B3gnt6,iGAT,iGNT,BETA3GNT1,1500032M01Rik
A_51_P285217 BC031575,KIAA0430,MGC36956,mKIAA0430
A_51_P332481 Msl31,Msl31
A_51_P282268 Snapc1,2700033G17Rik
A_51_P306839 1810029B16Rik
A_51_P176625 Zbtb8os,Arch,Archm,2010001H09Rik,2310028N13R
A_51_P299934 BC048403,E030027L10
A_51_P473748 2200003E03Rik,YNL,AMCase
A_51_P228777 Fcho1,3322402E17Rik

A_51_P285206 Cd3d,T3d
A_51_P426633 4930588M11Rik,HSU15552,MGC27716
A_51_P442142 1700126L10Rik
A_51_P398723 Flt1,Flt-1,sFlt1,VEGFR1,VEGFR-1
A_51_P362298 Tmprss3
A_51_P208870 Zdhhc24,Leng4,5730496N17Rik
A_51_P243819 Opn4
A_51_P182631 Mug1
A_51_P197378 Apg12l,4931423H11Rik,A330058M13Rik
A_51_P328001 Sftpc,SP-C,Sftp2,Sftp-2
A_51_P473734 H2-DMa,H-2Ma,H2-Ma
A_51_P208801 Ndufab1,8kDa,SDAP,2210401F17Rik,2310039H15R
A_51_P246317 Mt2,Mt-2,MT-II
A_51_P228753 4631416L12Rik
A_51_P197354 Nipa2,2600017P10Rik,3830408P04Rik
A_51_P464029 Fads3
A_51_P267454 Slc25a11,2oxoc,2310022P18Rik
A_51_P299954 Tcl1b3
A_51_P121485 Olfr355,MOR138-2
A_51_P296487 Lss,MGC27893,D10Ertd116e,2810025N20Rik
A_51_P208857 Olfr827,MOR210-5
A_51_P252725 Gpc4,K-glypican,9530073D23Rik
A_51_P422257 Emx1
A_51_P267447 Adam19,M[b],Mltnb
A_51_P267441 1110038F21Rik,1110007B02Rik
A_51_P456590 Wbscr22,1110003N24Rik
A_51_P328014 Cops3,Csn3,Sgn3
A_51_P362292 Ms4a10,2010001N17Rik
A_51_P153683 BC004853,MGC6965,MGC37548,MGC37592
A_51_P208845 AU040377,5930412K08
A_51_P104392 Rpp25,MGC102363
A_51_P246345 Myl7,MLC2a,MYL2A,RLC-A,Mylic2a,MLC-2alpha
A_51_P323319 V1rh13
A_51_P130824 Cog8
A_51_P228706 Kcnc4,Kv3.4,Kcr2-4,KSHIIIC
A_51_P197321 Clta
A_51_P300216 Cbfb,PEA2,Pebp2,PEBP2b,Pebsp2
A_51_P282673 6330407D12Rik
A_51_P403122 4933401A11Rik
A_51_P214319 Cox11,2010004I09Rik
A_51_P422223 1700006J14Rik
A_51_P200535 Cd47,IAP,ltgp,9130415E20Rik,B430305P08Rik
A_51_P403170 Sult2b1,SULT2B
A_51_P200561 4930506M07Rik,KIAA1598,mKIAA1598
A_51_P431916 Ubtf,UBF,UBF1,NOR-90,Tcfubf
A_51_P431919 Tfg
A_51_P296416 Orc6l,Orc6,MGC91038,6720420I10Rik
A_51_P422208 Dpagt1,Dpagt2
A_51_P130808 Tpbpb,1600012N09Rik
A_51_P200517 TC976091
A_51_P194853 Sec14l4,SPF,TAP,MGC30313
A_51_P208891 NAP057037-1

A_51_P481052 2700083B06Rik
A_51_P419959 Eaf1,4933403C17Rik
A_51_P131800 Cyba,b558
A_51_P312268 1810062O18Rik
A_51_P282404 Add1
A_51_P200544 9030611K07Rik,Tnip3
A_51_P200529 Mpst,Mst
A_51_P501473 G3bp,KIAA4115,mKIAA4115,B430204O07
A_51_P323320 Dnchc2,DHC2,DHC1b,DYH1B,mKIAA1997,4432416
A_51_P300266 Fem1c,2610312A07Rik,3632443A22Rik
A_51_P217731 Polr3a,RPC1,RPC155,MGC62420,9330175N20Rik
A_51_P461475 Drpla,Atr1,atrophin-1
A_51_P246387 Nktr,D9Wsu172e
A_51_P194823 Il13,Il-13
A_51_P323358 AK033234
A_51_P335859 Olfr1228,MOR233-1
A_51_P282630 Pacsin3,4921507A02Rik,6330413E15Rik
A_51_P508640 Tnfsf7,Cd70,Cd27I,CD27LG
A_51_P130830 Asf1a,2310079C17Rik
A_51_P419971 2310036D22Rik,5830455K21Rik,6430519M21Rik
A_51_P300297 3110031B13Rik
A_51_P315754 2810028N01Rik
A_51_P374549 Spata1,SP-2,4921536I21Rik
A_51_P449329 H2-Oa,H-2Oa
A_51_P501494 V1rc7
A_51_P315720 Ccdc12,2700094L05Rik
A_51_P335849 Ctnnbip1,ICAT,Catnbip1,1110008O09Rik,2310001I1
A_51_P296429 D8Bwg1414e,AA403674,9030409E16Rik
A_51_P252784 1500011H22Rik
A_51_P282609 Grik1,Glur5,Glur-5,MGC25101,A830007B11Rik
A_51_P214107 Tbc1d20,1110028I04Rik,2810442O16Rik
A_51_P315734 Pax3,Sp,Pax-3,splotch
A_51_P296456 3010027A04Rik,Gm176,2410104C19Rik,6330578CC
A_51_P116725 Olfr1240,MOR231-8
A_51_P282616 4932425I24Rik
A_51_P419925 E130112L23Rik,Gm669
A_51_P300277 Coro1a,p57,TACO,Clabp
A_51_P359862 Rpl7a,Surf3,Surf-3,MGC103146
A_51_P449334 Ube1x,Sbx,A1S9,Ube-1
A_51_P194883 Kcnq1,Kcna9,KVLQT1
A_51_P188023 XM_354681
A_51_P345945 Tsga8,Halapx,Halap-X
A_51_P167117 8030443D09Rik,Gm707
A_51_P359822 Sftpd,SP-D,Sftp4
A_51_P296448 Casp2,ICH-1,Nedd2,Caspase-2
A_51_P116755 Cap2,2810452G09Rik
A_51_P389216 6330503C03Rik,6530406I18Rik
A_51_P116796 Crygc,Cryg-5
A_51_P403193 Mdga1
A_51_P167105 B3galt4,Gal-T2
A_51_P389255 Olfr765,MOR115-4
A_51_P200586 March8,Mir,1300017E09Rik

A_51_P461123 Tlr5
A_51_P419981 Hnrpa2b1,Hnrpa2,hnrnp-A,9130414A06Rik
A_51_P449361 Hdac6,Sfc6,Hdac5,mHDA2
A_51_P510059 Dgat1,Dgat,D15ErtD23e
A_51_P359800 Clec11a,Scgf,Clecsf3
A_51_P167132 Usp27x,Sfc11
A_51_P315785 Tnfaip6,Tsg6,TSG-6,Tnfip6
A_51_P371323 Snx9,SDP1,SH3PX1,2700073N08Rik
A_51_P404275 Adh5,Adh3,Adh-5,GSNOR
A_51_P389278 4921529O18Rik,4930432K16Rik
A_51_P195199 Orc3l,Orc3
A_51_P214187 Slc6a3,DAT,Dat1
A_51_P374533 Olfr374,MOR130-1
A_51_P404204 Raf1,Craf1,Raf-1,c-Raf,v-Raf,MGC102375,6430402F
A_51_P177605 C130022K22Rik
A_51_P362348 Magea4,Mage-a4
A_51_P268297 Fubp3,FBP3,A330051M14Rik
A_51_P121756 Iqgap2,4933417J23Rik
A_51_P449348 Ankrd17,Foe,Gtar,MASK,mKIAA0697,A930008M01,
A_51_P374521 4921509B22Rik
A_51_P167156 Dsg1b,Dsg5
A_51_P188054 Ebf1,Ebf,Olf1,O/E-1,Olf-1
A_51_P442458 Brd8,SMAP,p120,2610007E11Rik,4432404P07Rik,4
A_51_P167198 Olfr1270,MOR227-1
A_51_P430744 4931402H11Rik
A_51_P359891 Sn,CD169,Siglec-1
A_51_P343016 Bat8,G9a,NG36,D17ErtD710e
A_51_P109508 Havcr2,Tim3,Timd3
A_51_P389265 Adpn
A_51_P430728 Hoxd9,Hox-4.4,Hox-5.2
A_51_P188073 Dnajb11,Dj9,ABBP-2,1810031F23Rik
A_51_P146633 4930533K18Rik,4933433H14Rik
A_51_P232107 Pigg,Gpi1,Gpih,Gpi1h,Gpi1p
A_51_P299896 Ccl1,l-309,Scya1,Tca-3
A_51_P362373 5330440H13Rik
A_51_P197499 Bsnd,MGC47291
A_51_P398647 A630035I11Rik,A930031C22
A_51_P442445 Astd2,bM452J22.1
A_51_P182796 Tgm2,tTG,G[a]h,tTGas
A_51_P372912 Sars1,Sars,Strs
A_51_P176998 Prdm2,Riz,Riz1,Gm1033,ZNFPR1C1,4833427P12Ri
A_51_P262858 Pard3,ASIP,Par3,PAR-3,D8ErtD580e
A_51_P442402 Mgrn1,md,nc,mKIAA0544,2610042J20Rik
A_51_P431888 D930005D10Rik
A_51_P457857 Man1a2,PCR2,Man1b
A_51_P349192 2210013O21Rik
A_51_P153368 Slc6a1,Gabt,Gat1,XT-1,Gabt1,Xtrp1,GABATR,GABA
A_51_P195174 Brodl
A_51_P374592 BI151587
A_51_P457820 Capn8,nCL-2,nCL-2'
A_51_P262871 Nans,Sas,4632418E04Rik
A_51_P262878 Tmed9,2400003B06Rik

A_51_P362328 Tcfcp2l3,BOM,Grhl2,0610015A08Rik
A_51_P398603 4930511H11Rik
A_51_P299805 1200006F02Rik
A_51_P481832 Rabggt, gm
A_51_P510096 D130064H19Rik,5730509D14
A_51_P441618 6330548G22Rik
A_51_P233153 Cadps2,Cpd2,A230044C21Rik
A_51_P398673 C130039O16Rik,Gm260
A_51_P232142 Thumpd3,Gtrosa26as,Gt(ROSA)26asSor
A_51_P473646 B230216G23Rik
A_51_P121724 4933401B06Rik
A_51_P387764 Fabp5,Klbp,mal1
A_51_P387769 Al414054,Gm1064
A_51_P473658 9530062K07Rik
A_51_P246667 Cbwd1,MGC28027,MGC59411
A_51_P121793 Pnn,D12ErtD512e
A_51_P412892 1700022F17Rik
A_51_P457813 2210404J11
A_51_P349152 Ifnz,BGIF,Lmtn,6030405N23Rik
A_51_P456699 Olfr812,MOR110-1
A_51_P461191 1700083M11Rik
A_51_P410516 4930408O17Rik
A_51_P362399 Lig4,5830471N16Rik
A_51_P349142 Fbl,FIB,FLRN,RNU3IP1
A_51_P273468 8430429K09Rik
A_51_P267544 Frg1
A_51_P431870 Bpy2ip1,MAP1S,VCY2IP1,6430517J16Rik
A_51_P246653 Clec7a,BGR,beta-GR,Clecsf12
A_51_P349166 Sestd1,MGC51459,A930010O20,1500031J16Rik
A_51_P422143 Csn1s2a,Csn1s2b
A_51_P365037 6330412F12Rik,BS4,Nub1,NY-REN-18,4931404D21
A_51_P119106 Pabpc1,PABP,Pabp1,Pabpl,Pabpl1
A_51_P214251 6530404N21Rik
A_51_P422165 Elp4,Paxneb,A330107A17Rik
A_51_P200895 2510048O06Rik
A_51_P119100 NAP057192-1
A_51_P328133 Gle1l,4933405K21Rik
A_51_P153388 1700116B05Rik
A_51_P398683 Rcn3,RLP49,MGC102610,D7ErtD671e,6030455P07I
A_51_P365008 Tns,1110018I21Rik,1200014E20Rik,E030018G17Ril
A_51_P442481 Anapc7,APC7
A_51_P176912 Hlcs
A_51_P273449 TC975823
A_51_P246627 Kif2b,1700063D03Rik
A_51_P365019 Gclc,Glcl,GLCL-H,Ggcs-hs
A_51_P442497 Tmem16d,A330096O15Rik
A_51_P328150 4933437K13Rik
A_51_P464149 1810055E12Rik
A_51_P386389 Actr6,Arp6,ArpX,CDA12,2010200J04Rik
A_51_P296182 Slc43a2,Lat4,Pitpn,MGC28931,7630402D21Rik
A_51_P176932 Mark3,Emk2,ETK-1,KIAA4230,mKIAA1860,mKIAA42
A_51_P296198 D8ErtD82e,FLJ00269,MGC100334,mFLJ00269,983C

A_51_P282557 C3ar1,AZ3B,C3AR,HNFAG09
A_51_P131335 BC031901,MGC38937
A_51_P176972 AI415330,Ali1,Amigo2
A_51_P365066 Tmprss11d,AST,MGC28382
A_51_P116609 Tex12,5730518K06Rik
A_51_P116601 A330021E22Rik,4921525K03
A_51_P300337 Csrp2,Crp2,SmLim
A_51_P147034 1700030B17Rik
A_51_P282518 2900075B16Rik
A_51_P422124 Drctnbn1a
A_51_P131315 Serpina9,Centerin,2310014L03Rik
A_51_P323642 V1rb3,VN5
A_51_P481159 Cbr3,MGC99956,1110001J05Rik
A_51_P200819 Prdx4,TRANK,AOE372
A_51_P131358 Selpl,CD162,Psgl1,Psgl-1
A_51_P214209 Spbc24,2410030K01Rik
A_51_P336952 Cryl1,1110025H08Rik,A230106J09Rik
A_51_P282508 Rhoc,Arh9,Arhc
A_51_P273497 AI851523
A_51_P119161 Ofcc1
A_51_P163238 D830007E07Rik
A_51_P200838 Appbp1,59kDa,MGC29435,MGC36437,MGC36630
A_51_P359586 Pfkfb1
A_51_P200875 Mllt7,afx,Afxh,Foxo4
A_51_P296100 Rhot2,Arht2,Miro2,MGC31216
A_51_P116636 4933411K16Rik
A_51_P323620 Thy28,MY105,MDS012,HSPC144,D730042P09Rik
A_51_P282523 Gpr124,Tem5,mKIAA1531,8430414O08Rik,9530074
A_51_P419833 Zfp82,KRAB16,A030010D05
A_51_P188108 Lama1,Lama
A_51_P267587 Gdap10
A_51_P300378 D8Erd594e,AU022508,5330431C14Rik
A_51_P358894 2900074C18Rik,MGC107339
A_51_P496830 5730590G19Rik
A_51_P496814 Pdc10,Tfa15,Tfar15,MGC102058,2410003B13Rik
A_51_P167452 1110031B06Rik
A_51_P436817 Dos,R29144/1,9630008F14
A_51_P188111 Eps8
A_51_P411996 1110032A03Rik,c11orf1,4930500N06Rik
A_51_P427017 1700020I14Rik,AI451541,AI585852,1190006L01Rik,
A_51_P478311 Nmd3
A_51_P116651 Dpt,Eq1,EQ-1,1810032B19Rik,5033416F05Rik
A_51_P200867 2400010G15Rik
A_51_P188126 Gca,5133401E04Rik
A_51_P461504 Eef2k,eEF-2K
A_51_P374453 Gps1,Csn1,COPS1,MGC7191
A_51_P300395 1700007K09Rik
A_51_P116665 2610005L07Rik,2810038F24Rik,6720476A01Rik
A_51_P217616 Chst3,C6ST,GST-0
A_51_P374464 Gstp1,GstpiB
A_51_P359525 Olfr449,MOR103-1
A_51_P464182 Mat1a,Ams,MAT,SAMS,MATA1,SAMS1,AdoMet

A_51_P188135 Fbxo7,2410015K21Rik
A_51_P343739 Dlgap4,DAP4,WBP16,Sapap4,MGC37636,mKIAA09
A_51_P478338 Drd3,D3R
A_51_P146741 1810008K16Rik
A_51_P481592 Ckap2,LB1
A_51_P116687 1700010I14Rik
A_51_P346923 Lepre1,Gros1,leprecan,2410024C15Rik
A_51_P478303 Cyp2d9,Cyp2d,P450-2D
A_51_P124467 BC033915,MGC90906,MGC91236,mKIAA0999,573C
A_51_P362801 NP376624
A_51_P461665 Cxcl9,CMK,Mig,Scyb9,crg-10
A_51_P362069 9530003J23Rik
A_51_P362066 Chi3l1,Gp39,Brp39,brp-39
A_51_P126198 Dapk2
A_51_P217509 Btbd11,6330404E16Rik
A_51_P427052 Pla2g2c
A_51_P351896 1110032E23Rik
A_51_P343717 NAP057129-1
A_51_P478359 Zfp639,ZASC1,ANC-2H01,6230400O18Rik
A_51_P496804 Deadc1,4933426M09Rik
A_51_P146760 Pcdhb20,PcdhbT,Pcdhb14
A_51_P478326 Akt1s1,Lobe,Lobel,PRAS40,AI430011,1110012J22R
A_51_P217517 Mell1,NI1,SEP,NEPII
A_51_P442746 Gpr48,9130225G07,A930009A08Rik
A_51_P217535 Actr3,Arp3,1200003A09Rik
A_51_P371001 Tm4sf4,ILTMP,il-TMP,MGC19127
A_51_P411909 Sirt5,0610012J09Rik,1500032M05Rik
A_51_P427080 Ddef2,Gm592,Gm1523,MGC90837
A_51_P351883 Usp54,4930429G18Rik
A_51_P461675 Mocs2
A_51_P351872 Slc6a9,Glyt1,Glyt-1
A_51_P343772 2900084M01Rik,MGC37808
A_51_P510301 A_51_P510301
A_51_P359570 Ifit3,Ifi49,MGC107331
A_51_P146701 2610528H13Rik,MGC38132
A_51_P411965 Nbeal2,mKIAA0540,1110014F23Rik
A_51_P374436 Cndp1,Cn1
A_51_P167426 Herc1,MGC7618,B230218H07,2810449H11Rik,D13C
A_51_P153423 Fndc1,1110027O12Rik,1110051A18Rik
A_51_P436861 B130050I23Rik,EVI5L,MGC29047,1700084G18Rik,2
A_51_P411926 Bmp8b,Op3
A_51_P351860 C1qb
A_51_P442719 Usp6nl,RNTRE,TRE2NL,mKIAA0019
A_51_P359549 Fem1c,2610312A07Rik,3632443A22Rik
A_51_P461618 Ntng2,Lmnt2
A_51_P411917 Gata6,GATA-6
A_51_P232207 Hoxb6,Hox-2.2
A_51_P404193 Sp5
A_51_P362054 Atp5e,ATPE,2410043G19Rik
A_51_P427099 Mclc
A_51_P343757 Ptpn3,PTPCL,9530011I20Rik
A_51_P496845 Capza2,Cappa2,1110053K06Rik

A_51_P146726 Col19a1
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A_51_P268131 1700017B05Rik
A_51_P456366 Pard6a,Par6,Par-6,Par6c,TAX40,Tip-40,PAR6alpha,
A_51_P351844 Bche,C730038G20Rik
A_51_P232275 Phxr1,SP34
A_51_P182471 Cugbp2,ETR-3,Napor,Napor-2,B230345P09Rik
A_51_P442704 Doc2b
A_51_P305140 Gsta1,Gst2-1
A_51_P398579 Suhw4,ZNF634,MGC36902,A930005F02Rik
A_51_P268117 Rnf11
A_51_P410576 4933409I22
A_51_P351828 Olfr656,MOR27-1
A_51_P456320 Yy1,NF-E1
A_51_P387220 Ddx1,DBP-RB
A_51_P351803 Zbtb37,D430004I08Rik
A_51_P343787 Morf411,MRG15,Tex189,TEG-189,KIAA4002,MORFF
A_51_P182427 Olfr1107,MOR172-2
A_51_P387239 ligp1,ligp
A_51_P167489 Lama3,[a]3B,Lama3B
A_51_P410581 Hdgfrp3,HRP-3
A_51_P398525 Fn3k,2310074G21Rik
A_51_P182456 Pcgf3,Rnf3,DONG1,RNF3A,E430039C14,2310035N
A_51_P442723 Krtap3-1,KAP3.1,KRTAP3.1,2310003K17Rik
A_51_P297865 Kctd6,5430433B02Rik
A_51_P217598 4932442E05Rik
A_51_P252157 Top2a,Top-2
A_51_P339564 Olfr1378,MOR129-2
A_51_P298355 Dek,D13H6S231E,1810019E15Rik
A_51_P328239 Polr3b,RPC2,2700078H01Rik,A330032P03Rik
A_51_P387205 A130038L21Rik,AIGP3
A_51_P182414 Cecr5,MGC25951,A930002G03Rik
A_51_P298323 8430410A17Rik
A_51_P246543 3110018A08Rik
A_51_P311611 Dfy,FY,GPD,Darc,CCBP1,CD234,ESTM35
A_51_P232281 Pla2g2d,mGIID
A_51_P398517 Rnf130,GP,G1rp,G1RZFP,GOLIATH,2510042A13Ril
A_51_P197116 Ear5,mR5
A_51_P176811 Tspan10,Ocsp
A_51_P473912 Thhl1,S100a17,5430400H23Rik
A_51_P153486 Dnajb1,HSPF1,Hsp40,0610007I11Rik
A_51_P197137 Olfr370,MOR267-16
A_51_P328202 Daam2,2310016D11Rik
A_51_P214306 D14Ertd500e,9430093H08Rik
A_51_P398596 Tnrc6b,MGC28739,A730065C02Rik,D230019K20Ril
A_51_P397847 Ssr1,SSR,TRAPA,6330400D04,2510001K09Rik
A_51_P473940 4930477M19
A_51_P513991 Spag4,KIAA4118,MNCb-0953,mKIAA4118,1700041I
A_51_P300001 Cyld,EAC,CDMT,CYLD1,mKIAA0849,2010013M14R
A_51_P192042 Myh1,Ild,MdMs,Ild/x,Myhs-f,Myhsf2,MHC2X/D,Myhs-
A_51_P252103 Sla2,SLAP2,SLAP-2,A930009E21Rik
A_51_P397876 En2,En-2

A_51_P377833 Cklfsf7
A_51_P246527 Tpp2,TppII
A_51_P393768 Osbp,KIAA4220,mKIAA4220,1110018F06Rik
A_51_P300038 Ldhd,D8Bwg1320e,4733401P21Rik
A_51_P501622 1700120K04Rik
A_51_P370438 Lpin2,2610511G02Rik
A_51_P481238 2610510B01Rik,C21orf5,mKIAA0933,0610038M01R
A_51_P258098 0610011I04Rik,Keg2
A_51_P397834 Dpm1
A_51_P513969 Kcnh7,erg3,Kv11.3,9330137111Rik
A_51_P323174 Hmgb2I1,E430025G12,4733401K04Rik
A_51_P449580 Hmga2-ps1,[y]i-c,Hmgic-ps1
A_51_P377826 AA407930,Airap
A_51_P513979 1700026L06Rik,MGC58459
A_51_P314968 Tor2a
A_51_P225889 Tia1,mTIA-1,2310050N03Rik
A_51_P176854 Ndufaf1,CIA30,CGI-65,2410001M24Rik
A_51_P214122 Ccr1I1,Cmkbr1I1
A_51_P473953 8430436L14Rik
A_51_P214127 Cpa3,MC-CPA,mMC-CPA
A_51_P252126 Sry,Tdf,Tdy
A_51_P314991 Olfr878,MOR163-1
A_51_P377812 1700011E24Rik
A_51_P315506 Usp33,Vdu1,9830169D19Rik
A_51_P481210 Ofd1,ORF2,Cxorf5,DXGgc7e
A_51_P314929 Dgkd,dgkd-2,DGKdelta,D330025K09
A_51_P296608 Gadd45a,Ddit1,GADD45
A_51_P225845 NAP057198-1
A_51_P513941 Lrpap1,RAP,HBP44
A_51_P377856 Gstt3
A_51_P258078 Nol1,120kDa,A530002O17
A_51_P147302 E230008N13Rik
A_51_P129962 5930434B04Rik
A_51_P249867 6530403A03Rik,1110050F08Rik
A_51_P501656 Kdelc2,2010004J24Rik,4833410J10Rik
A_51_P249848 Dsg2,D18ErtD293e
A_51_P124534 AK085738
A_51_P389028 Tnfrsf10b,MK,DR5,Ly98,KILLER,TRICKB,TRAILR2,1
A_51_P188237 Rabif,MSS4,RASGFR3,E130318E12Rik
A_51_P225873 Tex27,TEG-27,MGC103362
A_51_P249821 Smap1,1700056O10Rik,4921514B13Rik,4921525H1
A_51_P266964 Slc35d1,UGTREL7,KIAA0260,mKIAA0260,C330011,
A_51_P252199 Tmem32,MGC40705,9630048L06Rik
A_51_P513934 D3Jfr1,unr,MGC19174,mKIAA0885
A_51_P449507 Kif3c,KIAA4058,mKIAA4058
A_51_P214197 Stk17b,Drak2,3110009A03Rik
A_51_P389004 Sgcd,35kDa,delta-SG
A_51_P225815 Olfr25,MTPCR18,MOR170-4
A_51_P167313 2900019M05Rik
A_51_P188211 Max
A_51_P226655 Pltp
A_51_P404454 1110020C17Rik

A_51_P124568 Mpp1,55kDa,C130070C03Rik
A_51_P389017 Tulp2,Pdet,MGC107290
A_51_P225808 Stat2,1600010G07Rik
A_51_P374752 Rbp4,Rbp-4
A_51_P323195 Atp13a4,4832416L12,4631413J11Rik,9330174J19R
A_51_P315555 Nars,ASNRS,3010001M15Rik
A_51_P225832 2700097O09Rik
A_51_P188271 Cd248,Tem1,Cd164l1,2610111G01Rik
A_51_P167374 Gpatc1,ECGP,1300003A17Rik
A_51_P374707 Tspan12,Tm4sf12,9030619E17
A_51_P481693 Ero1l
A_51_P427132 Fbxl13,4921539K22Rik
A_51_P167322 Ankrd17,Foe,Gtar,MASK,mKIAA0697,A930008M01,
A_51_P225827 Ovo1,Ovo1
A_51_P226645 Cacng2,stg,wag,waggler,stargazer,stargazin,B23010
A_51_P411842 NAP102962-1
A_51_P461748 Dusp3,VHR,T-DSP11,2210015O03Rik
A_51_P404447 4732493F09Rik,Rab3gap,1700003B17Rik
A_51_P129803 Cacybp
A_51_P234359 Sct
A_51_P359603 Itgb7,Ly69
A_51_P359625 Gsr,Gr1,Gr-1,D8ErtD238e
A_51_P274124 Mansc1,9130403P13Rik
A_51_P411859 C330016H24Rik,C630038K21Rik
A_51_P427151 Nadk,MGC7589
A_51_P112912 Rras2,TC21,2610016H24Rik
A_51_P332998 Asb4,8430401O13Rik
A_51_P389050 1100001E04Rik
A_51_P109741 Neil1,Nei1,2810450N13Rik
A_51_P129866 D8ErtD587e,C330011L24Rik
A_51_P274137 2310001K24Rik
A_51_P116581 DXImx40e,Sfc22
A_51_P404463 1500015O10Rik,Ecrg4
A_51_P343266 Olfr473,MOR204-4
A_51_P362161 Ubqln4,A1u,UBIN
A_51_P510250 Lrch3,Gm1742,AW215594,2210409B11Rik
A_51_P146432 5730472N09Rik,R74766,C9orf54
A_51_P411874 Ankhd1,MASK,mKIAA1085,1110004O12Rik,493343:
A_51_P232748 Plxnb3
A_51_P461779 Ppp2r2c,PR52,IMYPNO,IMYPNO1,6330548O06Rik
A_51_P272407 Mylk,KRP,Mlck,MLCK108,MLCK210,9530072E15Rik
A_51_P232742 5730414C17Rik
A_51_P430833 Kcnc3,Kv3.3,Kcr2-3,KShIIID
A_51_P305681 Ear14
A_51_P234303 Rpa2,Rf-A2
A_51_P362176 Fgg,3010002H13Rik
A_51_P167360 Ptpn7,LPTP,HEPTP,BPTP-4,LC-PTP,C920001D21R
A_51_P129848 Olfr1243,MOR231-4
A_51_P411801 Olfr368,MOR178-1
A_51_P184886 Abcg2,MXR,ABCP,BCRP,MXR1,ABC15,Bcrp1
A_51_P272473 V1rc16
A_51_P461703 Mup1,Up-1,Ltn-1,Mup-1,Mup-a,Lvtn-1,2610016E04R

A_51_P404405 Galgt2,Dlb1,Ggm3,Dlb-1
A_51_P503786 Bcor,mKIAA1575,5830466J11Rik,8430401K06Rik,D
A_51_P182592 Mgat1,Mgat-1
A_51_P362104 Enpp5,D17Abb1e,KIAA4152,mKIAA4152
A_51_P129895 Comt,D16Wsu103e,D330014B15Rik
A_51_P217463 Cxcl2,GROb,Gro2,Mip2,Scyb,MIP-2,Scyb2,MIP-2a,M
A_51_P461716 6030408C04Rik,mKIAA1333,9030416F18,D930034R
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A_51_P188281 Myf5,B130010J22Rik
A_51_P232771 4933407N01Rik
A_51_P217430 2410016O06Rik,NO66
A_51_P461724 Atp6ap2,M8-9,Atp6ip2,APT6M8-9,ATP6M8-9,57304C
A_51_P274173 Ldlr
A_51_P208931 C330016O10Rik,N4bp3,MGC7136
A_51_P398423 Trpm5,Mtr1,Ltrpc5,9430099A16Rik
A_51_P182572 Phactr1,Rpel1,9630030F18Rik
A_51_P153132 Kcne2,MiRP1,2200002I16Rik
A_51_P272448 Kctd2,2310012I15Rik
A_51_P332900 Stk4,Mst1,Ysk3,Kas-2
A_51_P456478 AW011752,mKIAA1387
A_51_P374782 Epn3,2310022G12Rik
A_51_P232708 Npff
A_51_P232705 Commd9,1810029F08Rik
A_51_P473888 Il6st,CD130,gp130,D13Ert699e,5133400A03Rik
A_51_P332932 4933415A04Rik
A_51_P121527 Golt1a,Kiss1,metastatin,0610012C01Rik
A_51_P332939 Farp1,Cdep
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A_51_P476725 BC037527,MLC1SA,MGC41229,5730437E04Rik
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A_51_P119387 Tm4sf5,2010003F10Rik
A_51_P246895 Mrff
A_51_P208919 Acbd6,0610010G04Rik,2610100E10Rik
A_51_P104718 Gpr12,Gpcr12,Gpcr21
A_51_P197252 Ccdc16,2410003C20Rik
A_51_P456466 Wbscr14,ChREBP,WS-bHLH
A_51_P417906 Cyp17a1,Cyp17,p450c17
A_51_P398406 Kctd13,Poldip1,PDIP1alpha,1500003N18Rik
A_51_P461788 1110033M05Rik,53-E6,pEN87,2610318O14Rik,943C
A_51_P217498 Slc2a4,Glut4,Glut-4
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A_51_P481676 2210018M03Rik
A_51_P232727 Olfr1213,MOR233-7
A_51_P332917 Enpp3,CD203c,MGC6548
A_51_P510284 Mid1,Fxy,61B3-R,Trim18,MGC60591,DXHXS1141
A_51_P153124 Emcn,Muc14,0610012K22Rik
A_51_P328300 Cai,Erp72
A_51_P382093 Sned1,SST3,Snep,6720455I24Rik
A_51_P456499 Tm7sf4,FIND,DCSTAMP,4833414I07Rik
A_51_P146485 9030405F24Rik
A_51_P123188 Olfr281,MOR160-5
A_51_P182538 Cd209c,SIGNR2,mSIGNR2

A_51_P195324 Ard1,Te2,2310039H09Rik
A_51_P208922 Stc2,mustc2
A_51_P232790 5430404L10Rik,4930449A16Rik
A_51_P197209 Adck4,MGC101983,MGC102655,0610012P18Rik
A_51_P252677 1110007C09Rik
A_51_P476783 Spna2,brain,Spna-2,2610027H02Rik
A_51_P422335 B230312I18Rik,mszf70,mszf59-1,B230119D13
A_51_P282799 Pml,Trim19,1200009E24Rik
A_51_P422369 2010001J22Rik
A_51_P422360 Pthr1,PPR,Pthr,PTH1R
A_51_P282584 Olfml2b,1110018N05Rik,4832415H08Rik
A_51_P433562 Nme7,Nm23-M7,Nm23-r7,D530024H21Rik
A_51_P163015 Arntl2,CLIF,MOP9,BMAL2,4632430A05Rik
A_51_P197213 Pnpla2,TTS-2.2,0610039C21Rik,1110001C14Rik
A_51_P225981 9830124H08Rik,MGC38922
A_51_P481342 Ugcg,Ugcgl,Epcs21,GlcT-1
A_51_P296397 Olfr514,MOR268-1
A_51_P246816 Napa,hyh,RA81,SNAPA,SNARE,a-SNAP,1500039N
A_51_P252650 Olfr338,MOR136-5
A_51_P273213 Tcfcp2l2,MGR,Grhl1,LBP-32
A_51_P194597 1700129I15Rik
A_51_P501538 Adcy9,mKIAA0520
A_51_P256294 Olfr853,MOR154-1
A_51_P365202 LOC434377
A_51_P252607 Olfr1471,MOR202-38
A_51_P214275 Krt1-5,HRa-1,Krt1-22
A_51_P131119 Cica5,4732440A06
A_51_P296361 Cox17
A_51_P351039 Fgf6,Fgf-6
A_51_P200114 Olfr129,MOR263-9
A_51_P300143 Uqcr,0710008D09Rik
A_51_P323443 Vapb,VAP33b,D2Abb2e,Vamp33b
A_51_P376590 A_51_P376590
A_51_P119358 1700003F12Rik
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A_51_P481325 ler2,ch1,pip92
A_51_P398491 Trem1
A_51_P116421 Abcc5,Mrp5,Abcc5a,Abcc5b,MGC116567,2900011L
A_51_P323450 Cdc42ep4,CEP4,Borg4,1500041M20Rik
A_51_P214269 Epha1,Eph,Esk,5730453L17Rik
A_51_P422300 Ms4a6b,1810027D10Rik
A_51_P501550 Uxs1,1600025I13Rik
A_51_P246854 Acta1,Acts,Acta-2,Actsk-1
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A_51_P246871 4930583I09Rik
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A_51_P315634 Nedd1
A_51_P296352 Cacna1f,Sfc17,Cav1.4,A930034B14
A_51_P116407 X99384,Pald,MMPAL,mKIAA1274

A_51_P323435 Gtf2h2,p44,44kDa,Btf2p44
A_51_P315673 Usp11,MGC6649,KIAA4085,mKIAA4085,6230415D1
A_51_P249957 Fgf18,FGF-18,D130055P09Rik
A_51_P116447 Xpo6,Ranbp20,mKIAA0370,2610005L19Rik,C23009
A_51_P143855 Apg3l,APG3,PC3-96,2610016C12Rik
A_51_P166258 Brunol4,Brul4,CELF4,BRUNOL-4,A230070D14Rik,C
A_51_P323400 Zfp59,Mfg2,Mfg-2
A_51_P296328 Ahcyl1,DCAL,Irbit,Ahcy-rs3,1110034F20Rik
A_51_P389317 Olfr676,MOR32-1
A_51_P449690 2010308F09Rik
A_51_P194503 Olfr433,MOR123-1
A_51_P131168 Al851076
A_51_P374651 BC065123,B930060C03
A_51_P359359 5430437P03Rik
A_51_P249930 Tceal1,P21,SIIR,pp21,MGC18752,MGC102312
A_51_P422388 Foxn4
A_51_P249909 Lect2
A_51_P116479 Coq6,5930427M12Rik
A_51_P478132 2210019G11Rik
A_51_P427232 2410018M08Rik
A_51_P449675 4921509E05Rik,MGC102225
A_51_P478138 Cacnb1,Cchb1,Cchlb1
A_51_P410430 1700028D05Rik,Nesg1
A_51_P397537 1700012H05Rik,HNRNPG-T
A_51_P194525 Alx3
A_51_P427229 Slc28a2,Cnt2,B430217P18,2010208B10Rik
A_51_P188343 Sept7,Cdc10,KIAA4020,mKIAA4020,E430034N22
A_51_P397575 Cts7,CTS1,Epcs24,Epcs71
A_51_P194561 Dock10,Jr4,Jr5,ZIZ3,Zizimin3,mKIAA0694,9330153E
A_51_P143805 Tmem42,MGC29956,D9Ertd662e,0610027O18Rik,4
A_51_P427264 Lphn1
A_51_P449624 6430706D22Rik,Gm975,mfleg1,MGC66590
A_51_P397548 Mtrf1l,9130004K12Rik
A_51_P315666 Nid2,Ly111,NID-2,nidogen-2,entactin-2
A_51_P167668 Myh3,Myhse,Myhs-e,MyHC-emb
A_51_P146560 Msln,MPF
A_51_P359374 Mrps6
A_51_P214087 Cebpa,Cebp,CBF-A
A_51_P359315 Apobec2,Arp1
A_51_P461444 Dhfr,8430436I03Rik
A_51_P378415 Rhbdl7,MGC18730,0610011L13Rik
A_51_P323490 Psg17,Cea2,Cea-2,mmCGM5
A_51_P404300 1810020G14Rik,1810055I05Rik
A_51_P112833 Pkd1l2,1700126L06Rik
A_51_P146576 Arl6,1110018H24Rik,2210411E14Rik
A_51_P225933 Inpp4b
A_51_P188373 Stim1,SIM
A_51_P397564 Wdr57,Prp8bp,0610009C03Rik
A_51_P478172 Tcrb-V13,BV13S1
A_51_P249989 T2bp,TIFA
A_51_P359333 Fh1,Fh-1
A_51_P188381 C330018J07Rik

A_51_P146505 Atp11b,ATPIF,ATPIR,mKIAA0956,1110019I14Rik
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A_51_P241897 Sox14
A_51_P410703 Prss8,CAP1,mCAP1,2410039E18Rik
A_51_P359303 2610528E23Rik,1110001A06Rik,4930572F24Rik
A_51_P121891 Rac2
A_51_P410715 Hs3st3b1,3Ost3b,3OST3B1,Hs3st3b,3-OST-3B,AWE
A_51_P430630 Gpr33
A_51_P217706 Ribc1,2610028I09Rik
A_51_P461452 Ube2r2,Ubc3b,Cdc34b,1200003M11Rik
A_51_P389396 Gk-rs1
A_51_P449614 1700006A11Rik
A_51_P214083 2310039H08Rik
A_51_P343116 Syt7
A_51_P272113 9530002K18Rik
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A_51_P461416 Kcnq5,D1Mgi1,AA589396,7730402H11,9230107O0E
A_51_P217778 Calmbp1,Aspm,Sha1,MCPh5,D330028K02Rik
A_51_P427282 Ctsj,CATP,Ctsp,CatRLP
A_51_P389386 1110014D18Rik
A_51_P332822 Abce1,RLI,Oabp,RNS41,Rnaseli
A_51_P490924 Hapln4,Lpr4,Bral2,9330174O11
A_51_P410772 Rhcg
A_51_P332839 Olfr672,Ors46,MOR32-4
A_51_P246773 Sesn3,SEST3,MGC7182,5630400E15Rik
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A_51_P328489 1700025G04Rik
A_51_P185871 Mkrn1,RFP
A_51_P262964 Ednrb,s,ETb,ET-B,ET>B<,Sox10m1
A_51_P456136 2700023J09Rik,Bbs5,1700049I01Rik
A_51_P241828 Sdfr1
A_51_P153265 Gla,Ags
A_51_P332837 Ush3a,USH3,A130002D11Rik
A_51_P262925 1700018F24Rik
A_51_P246754 Pnpo
A_51_P153224 Zdhhc12,1190004A01Rik
A_51_P121818 Prkag1,Prkaac
A_51_P456113 9930013L23Rik,12H19.01.T7,6330404C01Rik
A_51_P104077 Usp13
A_51_P241808 Ap3b2,Naptb,[b]-NAP,MGC36656,beta-NAP
A_51_P252363 Stx12,Stx13
A_51_P246744 Slc35b4,4930474D06Rik
A_51_P135944 Stfa2,Stf2
A_51_P146593 Olfr508,MOR204-6
A_51_P338083 XM_143937
A_51_P346015 A530099J19Rik
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A_51_P515532 C030003D03Rik
A_51_P497953 Ubn1,1110029L11Rik,2610108L02Rik
A_51_P343189 Gp6,Gpvi,Gm469,9830166G18Rik
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A_51_P153289 3110023E09Rik

A_51_P352940 Trhr2,TRH-R2
A_51_P346045 Gtf2ird2,1700012P16Rik
A_51_P272184 Ccar1,Carp1,MGC90759,2610511G16Rik,9430036H
A_51_P119039 Npy5r,Y5R
A_51_P410451 Tube1,Tube,2310061K05Rik
A_51_P365139 4921517J23Rik
A_51_P392147 Xab2,0610041O14Rik
A_51_P267896 Rgs12,Gm202,4930415K13Rik
A_51_P441914 Hsd17b2
A_51_P119016 Usp36
A_51_P328416 9330179D12Rik
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A_51_P298190 Mtmr13,SBF2,mMTMH1,4833411B01Rik,B430219LC
A_51_P328432 XM_358308
A_51_P194498 Wfdc1,ps20,2310058A03Rik
A_51_P131216 C030002J06Rik
A_51_P353502 0610041B22Rik,RBCKL1
A_51_P300666 Npb
A_51_P352968 Marcks,Macs,PKCSL
A_51_P252328 Wdr32,MGC11993,MGC103038
A_51_P119055 Ssb,SS-B
A_51_P208555 Decr1,Decr,Nadph,1200012F07Rik
A_51_P246705 2610033H07Rik
A_51_P323755 Phr1,Pam,C130061D10Rik
A_51_P300657 Nefh,Nfh,NF-H,NF200,mKIAA0845
A_51_P495986 Gmpr,2310004P21Rik
A_51_P334789 Nudt16,2310041H06Rik,2810047L04Rik,2900006HO
A_51_P138341 Aptx,2410016G21Rik
A_51_P323712 Agt,Aogen,Serpina8
A_51_P116343 9130401L11Rik
A_51_P267836 Plg,Pg
A_51_P200930 4931417E11Rik
A_51_P382121 Ormdl1,C730042F17Rik
A_51_P353524 4930568D16Rik
A_51_P131235 Ptpn20,typ
A_51_P300602 AV124335
A_51_P150530 Bbp,2310026L18Rik
A_51_P119077 Sqstm1,Osi,p62,A170,STAP,OSF-6
A_51_P432117 Olfr1508,Or10,Mor10,MOR244-2,MOR244-4
A_51_P515585 Dullard,2610507E10Rik
A_51_P296057 Rent1,NORF1,Upflp,PNORF-1,B430202H16Rik
A_51_P501069 Spna1,ha,sph,Spna-1
A_51_P353539 2810055G22Rik,UIP83,TRIAD3,Ubce7ip1,F830018F
A_51_P323770 1700049M11Rik
A_51_P150521 Mgat2,GNT2,CDGS2,GNT-II,MGC37173,GLCNACTI
A_51_P185882 MGC54896
A_51_P296013 Ptpns1,Bit,P84,SIRP,SHP-1,CD172a,SHPS-1
A_51_P296015 Fstl5,9130207J01Rik
A_51_P287810 Mgst1,Gst,1500002K10Rik
A_51_P200915 Acin1,ACN,Acinus,acinusL,acinusS,mKIAA0670,2610
A_51_P119066 Oc90,PLA2L,Ocn-95,Pla2II
A_51_P315344 A830058L05Rik,Tce8

A_51_P353543 Magee2,Mage-e2,9630059J11Rik
A_51_P352924 Fem1b,mKIAA0396
A_51_P464892 4930426L09Rik
A_51_P267804 Rnf121,4930544L10Rik
A_51_P315353 1700012F11Rik
A_51_P300618 Crb2,5930402A21
A_51_P267861 Kcnk5,TASK-2
A_51_P267843 4933433J03Rik,4933439O14Rik
A_51_P374991 6430701C03Rik
A_51_P116309 Jmjd1a,TGSA,Tsga,Jmjd1,mKIAA0742,1700105C21
A_51_P353592 Commd4,1110039H05Rik
A_51_P427322 2700050L05Rik,MGC27934,MGC58090
A_51_P449765 D3Ucla1,RAMP4,Serp1
A_51_P419503 Olfr641,MOR13-3
A_51_P464860 Pla2g6
A_51_P217360 Olfr1344,MOR124-1,4930415J05Rik
A_51_P287836 Psg23,cea11,1620401C02Rik
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A_51_P464874 9.13E+15
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A_51_P470214 Al844789
A_51_P365189 Il13ra1,NR4,Il13ra,CD213a1,IL-13r[a]
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A_51_P131266 TC1042816
A_51_P291388 Pafah1b1,Lis1,Mdsh,LIS-1,Ms10u,Pafaha,MMS10-U
A_51_P461884 Abl2,Arg,Abll
A_51_P226417 Rraga,RAGA,FIP-1,1300010C19Rik
A_51_P194415 Slco3a1,Anr1,MJAM,OATP-D,Slc21a11,5830414C08
A_51_P315303 Ctbp2,Ribeye,D7Ert45e
A_51_P226429 Rhobtb2,Dbc2,MGC28699,mKIAA0717,E130206H14
A_51_P249608 Trdn,TDN,triadin-1,triadin-2,triadin-3,2310045H21Rik
A_51_P226465 P42pop
A_51_P389664 AW060659
A_51_P226472 Akap2,AKAP-KL,B230340M18Rik
A_51_P449777 Tmepai,STAG1,N4wbp4,PMEPA1,2210418I02Rik
A_51_P296027 Rab12,2900054P15Rik
A_51_P478238 Tdrd1,MTR-1
A_51_P461894 Tnnc1,tncc
A_51_P200960 Lztr1,TCFL2,1200003E21Rik
A_51_P496381 Ptk7,8430404F20Rik
A_51_P249627 Bicd2,mKIAA0699,0610027D24Rik,1110005D12Rik
A_51_P390937 Igk-C
A_51_P419571 Polr2d,RBP4,HSRBP4,2310002G05Rik,2610028L19
A_51_P478279 Trim33,Tif1g,mKIAA1113
A_51_P389636 Kcnn4,IK1,SK4,KCA4,IKCA1,mIKCa1
A_51_P201390 Tbc1d4
A_51_P449706 Lpp,D630048H16,9430020K16Rik,B130055L10Rik
A_51_P338072 Myh4,MHC2B,Myhsf,MyHC-IIb

A_51_P167513 Leng1,1500001K17Rik
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A_51_P478253 Entpd7,LALP1,Lysal2,1810012B13Rik,1810020C02F
A_51_P419551 Htr1d,Gpcr14
A_51_P473024 Nrp2,NP2,NP-2,Npn2,Npn-2,1110048P06Rik
A_51_P116395 BC003479,MGC6908
A_51_P359454 BC004004,MGC7550,2400006G15Rik
A_51_P167505 9630030I15Rik
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A_51_P305453 A_51_P305453
A_51_P374900 P2ry13,GPCR1,GPR94,Gpr86,P2Y13,SP174,20100
A_51_P389624 Pou4f2,Brn3b,Brn-3b,Brn-3.2
A_51_P167535 Fabp3,Mdgi,Fabph1,Fabph4,H-FABP,Fabph-1,Fabpt
A_51_P461578 Fdxr
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A_51_P431737 Cth,Cys3,MGC28655,0610010I13Rik
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A_51_P431772 Ndufa3,1010001M12Rik,1700022J01Rik
A_51_P461530 Lcn4,Vnsp2,A630045M08Rik
A_51_P226483 Spnb4,qv,dyn,lnd,SpbIV,ROSA62,5830426A08Rik
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A_51_P167527 Lum,Ldc,SLRR2D
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A_51_P390967 Slc43a3,Eeg1,SEEEG-1,MGC107644
A_51_P456266 Tyro3,Brt,Dtk,Rse,Sky,Tif,Etk-2
A_51_P417469 1500026D16Rik,AYP1
A_51_P217386 Lgi4,Lgil3
A_51_P104891 D5Wsu178e,SELI,KIAA1724,mKIAA1724,4933402G
A_51_P104897 Itpr3,lp3r3,ltpr-3
A_51_P167597 NP063612
A_51_P389684 Tmem47,BCMP1,Tm4sf10,3010015F07Rik
A_51_P291347 Odc1,ODC,MGC103389
A_51_P456248 4921523A10Rik
A_51_P387388 Olfr960,MOR224-12
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A_51_P495825 Apof
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A_51_P291361 Osm
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A_51_P233532 4930519F16Rik,Ppnx
A_51_P267986 Cova1,APK1,tNOX,MGC32453
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A_51_P217697 1700019L03Rik
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A_51_P501730 Crispld2,Lcrisp2,MGC116029,1810049K24Rik
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A_51_P232597 Abcc4
A_51_P107658 Mcf2l,Dbp, Ost, Ost gamma,mKIAA0362,C130040G2C
A_51_P107652 2210409B01Rik,NG22
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A_51_P352864 Olfr570,MOR8-3
A_51_P320022 Atp10a,pfatp,Atp10c
A_51_P501710 Gna13
A_51_P346165 Agpat4,1500003P24Rik
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A_51_P138238 Olfr1348,MOR103-9
A_51_P119544 Aga
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A_51_P501735 Gria4,Glur4,Glur-4,gluR-C
A_51_P300776 8430411H09Rik,1110033O10Rik
A_51_P287952 6330441O12Rik,Tho2,Gm1139,Gm1793,D130005M
A_51_P455528 Gphb5,Zlut1
A_51_P328537 Eda,Ta,Ed1,HED,EDA1,XLHED,tabby,Eda-A1,Eda-A
A_51_P149455 Acadl,LCAD
A_51_P501773 Slc35f3,B230375D17Rik
A_51_P365409 Rpusd4,2410001E19Rik
A_51_P131751 Olfr1217,MOR233-4
A_51_P115896 Olfr800,MOR114-7
A_51_P104187 Sumo1,GMP1,PIC1,SMT3,Ubl1,SMTP3,Smt3C,SMT
A_51_P352850 Efn2,Epl6,Elf-1,Cek7-L,LERK-6,Ephrin-A2
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A_51_P346153 Atox1,ATX1
A_51_P392055 Olfr1242,MOR231-5
A_51_P168894 Tmem16a
A_51_P382214 Rab17
A_51_P300717 Stxbp1,Ms10g,nsec1,N-sec1,Sxtbp1,Unc18h,MMS1C
A_51_P119525 Psbpc1
A_51_P267933 E130013N09Rik
A_51_P382204 9130207N01
A_51_P311919 Npy2r
A_51_P177171 Tie1,TIE,D430008P04Rik
A_51_P300726 Oprs1,mSigmaR1
A_51_P508341 D6Erttd253e,Reep1
A_51_P352875 Lcp2,SLP-76
A_51_P116245 Styk1,Nok,9130025L13
A_51_P501793 Hes3,HES-3
A_51_P358445 Dnase1,Dnl1,DNase1,DNase I
A_51_P389135 A530045M11
A_51_P267949 Map3k13,LZK,1300002E11Rik,1500026P21Rik,C13C

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A_51_P380861 9130208E07Rik
A_51_P249793 0710001B24Rik
A_51_P150489 Mlze
A_51_P226711 Ptf1a,PTF1p48,PTF1-p48
A_51_P177194 Rdhs,RDH-S,RDH-S2
A_51_P267974 AI839650
A_51_P217273 4933429H19Rik
A_51_P389120 6130401L20Rik
A_51_P255304 Cav3,Cav-3,M-cav,M-caveolin,caveolin-3
A_51_P365482 Ipo13,Imp13,Kap13,Ranbp13,MGC18698
A_51_P166434 Atp6v1e1,E2,P31,Vma4,Atp6e,Atp6e2,Atp6v1e,D6E1
A_51_P194704 Tusc3,N33,MGC6989
A_51_P382253 Rnf2,dinG,Ring1B
A_51_P427444 Snx3,SDP3
A_51_P282706 Hspd1,60kDa,Hsp60
A_51_P393634 Sepx1,SELX,SelR,Sepr,Msrb1,D17Wsu82e
A_51_P427401 4932442L08Rik
A_51_P188574 9930029P06Rik
A_51_P129972 Olfr611,MOR15-1,MOR15-4
A_51_P255329 Riok2,2010110K24Rik
A_51_P116239 Ptpn5,Step
A_51_P478774 Chrna10
A_51_P470769 Pcdhga7
A_51_P234274 BC013672,MGC19297,9830118M07
A_51_P419439 Gnmt
A_51_P129929 D330038O06
A_51_P194765 Anapc10,APC10,1500026N15Rik,A830003M23Rik
A_51_P255312 5330420P17Rik
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A_51_P390804 Wisp2
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A_51_P343369 A930010G16Rik,C430048F02Rik
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A_51_P274039 Crcp
A_51_P431669 B130055D15Rik,mKIAA0056,2810487N22Rik,46324
A_51_P374818 Shd
A_51_P153079 4833441J24Rik
A_51_P255373 2810013P06Rik
A_51_P478722 Tgtp,Gtp2,Mg21
A_51_P359122 2210411K11Rik
A_51_P255360 Nt5c3,p36,Nt5y,PN-1,PN-I,PSN1,UMPH,Umph1,lupir
A_51_P162437 Bcr,mKIAA3017,5133400C09Rik
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A_51_P427432 Grhpr,1110059D05Rik,6430629L09Rik
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A_51_P226760 Enpp3,CD203c,MGC6548

A_51_P431649 Atp13a1,catp,Atp13a,Cgi152
A_51_P391754 Soat1,ald,Acact,ACAT-1
A_51_P167803 Pde1b,63kDa,Pde1b1
A_51_P431684 Olfr1046,MOR194-1
A_51_P410101 Grcc9,C9,SSB2
A_51_P232612 Mll3,KIAA1506,mKIAA1506,E330008K23Rik
A_51_P255395 Col7a1
A_51_P234221 Prss7,A130097D21Rik
A_51_P153053 Smpd13a,ASM3A,ASML3,ASML3A,0610010C24Rik
A_51_P291224 Mobp,MOBP73,MOBP81,MOBP170
A_51_P291227 Usf1
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A_51_P255387 Med31,CGI-125,3110004H13Rik
A_51_P129999 4933412E14Rik
A_51_P167857 2900057D21Rik,DIP13,7330406P05Rik
A_51_P138189 Mthfs,1110034I12Rik,2310020H23Rik
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A_51_P138185 Chc1l,2610028E02Rik,2810420M18Rik
A_51_P153042 Psg16,bCEA,Cea11
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A_51_P343309 Cmas,CMP-Neu5Ac,D6Bwg0250e
A_51_P249777 Ltap,Lp,Lpp1,stbm,Vangl2,Vangl1l2,C530001F03Rik
A_51_P389185 Olfr5,ORL120,MOR103-8
A_51_P374863 Cars,CA3
A_51_P291247 Mug2
A_51_P374869 Abca7,ABCX,Abc51
A_51_P232667 A230063L24Rik
A_51_P291260 Mgam
A_51_P325501 Crip3,TLP,TImp,TLP-A,TLP-B
A_51_P298741 Klra20,Ly49t
A_51_P232628 Il22,IL-22,Iltif,IL-TIF
A_51_P168945 Mtmr1,AW049210,AW548191
A_51_P298750 AK048563
A_51_P391716 Ermap
A_51_P167843 Timm17a,17kDa,mTim17a
A_51_P374878 D330045A20Rik
A_51_P153013 Gtlf3a,F3-1
A_51_P168900 Aven,mAven-L,mAven-S,1700013A01Rik,1700056A:
A_51_P298716 2600005N12Rik
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A_51_P450536 1700030K09Rik
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A_51_P104960 Psmc1,S4,P26s4
A_51_P153004 Phax,p55,D18Ert65e,2810055C14Rik,4933427L19f
A_51_P328622 2010305C02Rik
A_51_P422893 Tmem14a,PTD011,5730496E24Rik
A_51_P397493 Polm,Tdt-N,B230309I03Rik
A_51_P244287 Lamb1-1,Lamb-1,D130003D08Rik
A_51_P231103 Defb1,mBD-1
A_51_P382393 1300002F13Rik
A_51_P365318 2500001H09Rik,Pcf11,5730417B17Rik

A_51_P109060 Pde3a,A930022O17Rik
A_51_P232682 Ccrl2,E01,CCR11,L-CCR,Cmkbr1l2,1810047l05Rik
A_51_P346214 Gfpt2,GFAT2
A_51_P163146 Sema3a,SemD,SEMA1,Semad,coll-1,Hsema-l
A_51_P328652 Bach,ACT,ACH1,LACH1,CTE-II,2410041A17Rik
A_51_P328659 Olfr1517,MOR185-5
A_51_P342877 Scn1b
A_51_P328645 C130032J12Rik,9130202B12
A_51_P208232 4931430N09Rik
A_51_P300446 MGC79224,KIAA1208,mKIAA1208
A_51_P346243 Gp1ba,GPIba,GPIb-alpha,GP Ib-alpha
A_51_P231128 Olfr694,MOR283-9
A_51_P194681 A730042J05Rik
A_51_P323579 Etv5,ERM,1110005E01Rik,8430401F14Rik
A_51_P104939 Klra5,Ly49e
A_51_P501260 Hist1h1d,H1D,H1.3,H1f3,H1s-4
A_51_P150722 Lyst,bg,beige,D13Sfk13
A_51_P346272 Snx26,TCGAP
A_51_P328631 2010204N08Rik,SI
A_51_P208217 AK035306
A_51_P501278 Tnip2,ABIN-2
A_51_P231113 Olfr614,MOR20-1
A_51_P300434 Dst,ah,dt,Bpag,BP230,Bpag1,Macf2,nmf203,BPAG1
A_51_P365369 Reln,rl,reeler
A_51_P353703 Frk,BSK,GTK,RAK,BSK/IYK
A_51_P256902 Abcg5,Sterolin-1,sterolin 1
A_51_P501248 Sphk1,SK1,1110006G24Rik
A_51_P482868 V1rc25
A_51_P150705 Igj,Jch,9530090F24Rik
A_51_P365351 Dhdh,1300018L09Rik
A_51_P346252 Gsg1
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A_51_P160870 Rtn4,ASY,NOGO,NSP-CL,KIAA4153,mKIAA0886,ml
A_51_P382369 Znf608
A_51_P166568 Glis,6330442B14,B230365M23Rik
A_51_P365344 Ahnak,DY6,1110004P15Rik,2310047C17Rik
A_51_P518940 Npr2,GC-B,GC-B2,GC-B3,mNPR-B
A_51_P208240 Tnfsf14,LTg,HVEMML,LIGHT,Ly113,HVEM-L
A_51_P131025 1500001L15Rik
A_51_P150763 Ropn1l,ASP,Akapasp
A_51_P231193 Etohd2
A_51_P382347 Nphp3,pcy,C230078J01,3632410F03Rik,D330020E0
A_51_P116157 A_51_P116157
A_51_P160858 Gnat1,Gnat-1,Tralpha,transducin

A_51_P323521 5730407K14Rik
A_51_P296249 Fkhl18,Fkh3,FREAC10
A_51_P397414 Reg3d,Ingaprp
A_51_P455459 4932422M17Rik
A_51_P207412 Ankrd32,MGC102362,C730024G01Rik
A_51_P382310 Sema5b,SemG,Semag,mKIAA1445
A_51_P323518 1500001H12Rik,BM88
A_51_P208263 LOC333830
A_51_P482820 Chrne,Acre
A_51_P518919 Cdh7,CDH7L1,cadherin 7,9330156F07Rik
A_51_P116130 Ube2g2,UBC7,Ubc7p,D10Xrf369,1110003O05Rik
A_51_P116137 Lrig1,Img,LIG-1,D6Bwg0781e
A_51_P389479 1190003J15Rik,2810420C16Rik
A_51_P397437 1700112C13Rik,79H19B,MGC107146
A_51_P205740 Ube3b
A_51_P422839 Smpdl3b,Asml3b,1110054A24Rik
A_51_P194609 Prss34,Mcp11,mMcp-11,C130091P12
A_51_P160824 Cspg4,AN2,NG2,4732461B14Rik
A_51_P249494 Sdcbp,Sycl
A_51_P469822 Apc,Min
A_51_P360622 Rbed1,RBM29,ELMOD3,MGC27575,C330008I15Rik
A_51_P401864 E430023H19Rik,D530030D03Rik
A_51_P194613 Gab2,p97,D130058I17Rik
A_51_P427558 Arrdc5
A_51_P315101 Sip1,Gemin2,1700012N19Rik
A_51_P147712 Sfrs14,MGC66544,mKIAA0365
A_51_P226269 1190002H23Rik
A_51_P205761 Ctrb1,Ctrb,Prt-2,2200008D09Rik
A_51_P397454 AK050250
A_51_P518926 2310047M10Rik
A_51_P427563 Cpne8,1200003E11Rik,1500031E20Rik
A_51_P260478 Pitpnc1,RDGBB,Dnr411,RDGBB1,rdgB-beta,111002
A_51_P397446 BC054438
A_51_P338278 Trh
A_51_P431531 4432406C08
A_51_P274544 Rps18,Ke-3,H-2Ke3,H2-Ke3
A_51_P496187 N28178,mKIAA1045,A230025O18
A_51_P359272 Alcam,BEN,SC1,MuSC,CD166,DM-GRASP,MGC279
A_51_P389435 Fsip2
A_51_P299475 Olfr63,M4,MOR267-1
A_51_P427505 Golph3,4733401N08Rik,5730410D03Rik
A_51_P478021 1700012M14Rik
A_51_P419768 Rgs2,GOS8
A_51_P417077 Vill,Villp
A_51_P167754 Stk11,Lkb1
A_51_P188655 Cul3
A_51_P260490 Ralbp1,Rip1
A_51_P299444 Galr1,Galn1
A_51_P478061 Igsf4a,BI2,ST17,Igsf4,Necl2,Tslc1,RA175A,RA175B,
A_51_P255257 Olfr513,MOR195-1
A_51_P359262 Sec11I3,1810029G24Rik
A_51_P431510 1700008D07Rik

A_51_P427516 Thsd1,Tmtsp,4833423O18Rik
A_51_P360655 Slc22a6,NKT,Oat1,Orctl1
A_51_P167746 St5,2010004M01Rik,2610305K15Rik
A_51_P478003 Papolg,9630006B20Rik
A_51_P205779 Cd5l,Api6,AAC-11,Pdp 1/6,Sp-alpha
A_51_P389421 Fahd1,1110025H10Rik
A_51_P291139 Upf3b,UPF3X,RENT3B,5730594O13Rik
A_51_P249471 9530028C05
A_51_P305230 Elavl3,Huc,mHuC,PLE21
A_51_P331805 Kctd15,MGC25497
A_51_P410672 Ccdc10,Csdufd1,A230072O16Rik
A_51_P291129 Fdx1
A_51_P431576 Sfxn1,f,2810002O05Rik,A930015P12Rik
A_51_P427530 Pgm1,Pgm2,Pgm-1,3230402E02Rik
A_51_P274506 Tex264,TEG-264
A_51_P323583 Eaf2,U19,Festa,Traits,FESTA-L,FESTA-S
A_51_P359237 Tmem9,1500015G18Rik
A_51_P464808 Mageb5,mMage-b5,1700056A17Rik
A_51_P249414 Es2el,ES2,Dgsi,Dgcr1,D16H22S1269E
A_51_P147791 Dcdc2,RU2,MGC54817
A_51_P146837 Grin3a,NR3A,NMDAR-L,KIAA1973,mKIAA1973,6430
A_51_P456034 Olfr768,MOR114-4
A_51_P398887 Ctns
A_51_P255295 C9
A_51_P404800 Rpe65,LCA2,RP20,rd12,65kDa,Mord1,A930029L06F
A_51_P431558 1600010O03Rik
A_51_P410650 Dpp9,DPRP2,A330078I11,6430584G11Rik
A_51_P404815 2310076O14Rik
A_51_P274593 Psmf1,PI31,MGC18784
A_51_P404846 Msr1,MSR,Scvr,MSR-A,SR-AI,SR-All,Scara1
A_51_P146813 Mocs3,1700020H17Rik
A_51_P169401 Lrp6
A_51_P185941 Shoc2,Sur8,Sur-8,MGC102442,mKIAA0862
A_51_P496162 Hsd3b5
A_51_P481261 Foxq1,sa,Hfh1,HFH-1,Hfh1l
A_51_P333111 Aox1,AO,RO,Aox2,MoRO,Aox-1,Aox-2,MGC13774
A_51_P404825 Al413631,MGC36453
A_51_P185971 Calm2
A_51_P169476 Mcpt1,Mcp-1
A_51_P333159 Rpa1,Rpa,RF-A,RP-A,70kDa,5031405K23Rik
A_51_P481221 Bace2,ARP1,BAE2,DRAP,AEPLC,ALP56,ASP21,CC
A_51_P167782 4921517L17Rik,5430421B09Rik
A_51_P185939 Gpr30,Ceprl,FEG-1,CMKRL2,GPCR-Br,6330420K13
A_51_P104487 Chrna4,EBN1,Acra4,ENFL1,Acra-4
A_51_P328760 Pak4,mKIAA1142,5730488L07Rik
A_51_P107438 2610529H08Rik
A_51_P298023 Ugt2a3,2010321J07Rik
A_51_P328769 Rnf20,KIAA4116,mKIAA4116,4833430L21Rik
A_51_P107433 Mrpl34,D8Bwg1484e,0610007O17Rik
A_51_P104348 M15046
A_51_P439996 Gp5,GPV
A_51_P404875 Dmn,Syn,MGC56976,E130104F11,4930412K21Rik

A_51_P285271 C530028I08Rik,Gm159
A_51_P298052 AW049829,Hsc20,MGC41340
A_51_P217094 5031425D22Rik
A_51_P392223 1810048J11Rik,4932413O10
A_51_P298007 AK044500
A_51_P328748 V1rg3
A_51_P146850 Pbxip1,MGC38361,4732463H20Rik
A_51_P376996 Cacna1c,Cav1.2,Cchl1a1
A_51_P300054 4933440N22Rik
A_51_P305854 Olfr1258,MOR232-3
A_51_P365656 2610511E22Rik
A_51_P119760 H2-Aa,la1,la-1,H-2Aa,Aalpha,IAalpha
A_51_P256642 Jak1,MGC37919,C130039L05Rik
A_51_P121947 Rxrip110,RIP110,D330018D10Rik,D630032M02Rik
A_51_P382484 Itgav,CD51,1110004F14Rik,2610028E01Rik
A_51_P365666 Ptpnh
A_51_P119776 Synpo2,Myo,1110069I04Rik,9530006G20Rik
A_51_P398868 Has3
A_51_P119771 Il17re,IL-17RE
A_51_P328725 Snf1lk,MsK,Sik
A_51_P298066 Clnk,MIST
A_51_P318755 Tmc5,4932443L08Rik
A_51_P398833 Tcfap2d,Tfap2d
A_51_P365674 Olfr174,MOR184-1
A_51_P325006 V1rh3
A_51_P168632 Prim1,MGC107288
A_51_P149623 Gabrd
A_51_P231042 Cd163
A_51_P150608 Jagn1,5830427H10Rik
A_51_P501145 Lef1,Lef-1,3000002B05
A_51_P398878 Uck2,UK,UMK,Umpk,TSA903
A_51_P298097 Prss15,LON,1200017E13Rik
A_51_P488422 4930578F03Rik,MGC62428,MGC63264
A_51_P138044 Foxo1,Afxh,FKHR,Fkhr1,Foxo1a
A_51_P119749 Synpo2I,1110054M18Rik
A_51_P398848 Trim37,MUL,TEF3,mKIAA0898,1110032A10Rik,2810
A_51_P252243 Tshb
A_51_P168630 Klf1,Eklf
A_51_P464992 Sssca1,C184L,1500016H19Rik
A_51_P119715 Deb1,1110020I04Rik
A_51_P194181 E130320D18
A_51_P518841 Fev,Pet1,Pet-1,mPet-1
A_51_P353452 1110018D06Rik
A_51_P116064 4921513I03Rik
A_51_P131561 1600029D21Rik,PLET1,0610037B23Rik
A_51_P410070 Gli3,Xt,Bph,Pdn,add
A_51_P365612 Rfx5
A_51_P300552 Neb
A_51_P398859 Olfr648,MOR31-12
A_51_P346353 Htr4,5-HT4,5-HT<4L>
A_51_P177364 Tas2r105,T2R9,T2r5,T2R05,mGR05,mt2r5,Tas2r5
A_51_P500806 Exosc8,CIP3,KIAA4013,mKIAA4013,2310032N20Rik

A_51_P231036 Col9a1,Col9a-1
A_51_P263774 1700016D08Rik
A_51_P177371 Prnd,Dpl,PrPLP,doppel
A_51_P300506 Cox6b2,COXVIB2
A_51_P231072 Clec2h,Clrf
A_51_P150678 1810019A08Rik
A_51_P464973 C920006C10Rik,KIAA0143,mKIAA0143,A130089M2
A_51_P410300 Al850629
A_51_P518864 4932411E22Rik
A_51_P180825 Nmt1
A_51_P315272 Usmg3,4833416I09Rik
A_51_P501107 Cul5,VACM1,VACM-1,4921514I20Rik,8430423K24R
A_51_P177340 Gpr132,G2a
A_51_P168665 Prpf8,Prp8,Sfprp8l,DBF3/PRP8,D11Bwg0410e
A_51_P382467 8430428J23Rik
A_51_P323880 mt-Co2,COII,COX2,COXII
A_51_P518851 Crebbp,CBP
A_51_P177390 2610036F08Rik
A_51_P478593 Ncoa2,TIF2,Grip1,GRIP-1,9530095N19,D1Ert433e
A_51_P177392 Tacc2,KIAA4180,mKIAA4180
A_51_P389751 Relb
A_51_P464958 Xrn1,exo,Dhm2,mXrn1
A_51_P376959 Tmeff2,4832418D20Rik
A_51_P180849 NAP057081-1
A_51_P353494 Fetub,Gugu,D17980,2310011O17Rik
A_51_P194149 Ttr,MGC107649,prealbumin
A_51_P116023 Gpr173,Sreb3,3230401K02Rik
A_51_P289206 Lgr8,Great,Gpr106
A_51_P116027 Crsp8,D2Ert434e,1500015J03Rik,2310042P07Rik
A_51_P464981 Map1lc3a,1010001H21Rik,4922501H04Rik
A_51_P382407 1700016K13Rik
A_51_P404779 Zfp217,Gm562,ZABC1,Znf217,4933431C08Rik
A_51_P289239 F8,Cf8,Cf-8,FVIII
A_51_P255126 Zswim5,mKIAA1511,4933426E21Rik
A_51_P427674 Cpt1a,CPTI,Cpt1,C730027G07
A_51_P160935 Cacng8
A_51_P389779 2610009E16Rik,Ptms
A_51_P188749 Zfp191,KOX17,ZF-12,Znf191,Znp191,3526401F17Ri
A_51_P226527 V1rj3
A_51_P389770 1700111E14Rik
A_51_P160907 Zcwc3,NXP2,D16Jhu32e,1110051N18Rik
A_51_P249594 Rev1l,Rev1,MGC66950,1110027I23Rik
A_51_P478581 1700030F18Rik
A_51_P289223 Limk2,Limk2a,Limk2b,9430059K01,A930024P04Rik
A_51_P404755 Armcx3,ALEX3,1200004E24Rik
A_51_P160913 Mr1,H2Is
A_51_P464911 Msr2,Mrsb,Msr2,Pilb,2310050L06Rik
A_51_P419613 Pkd2
A_51_P401921 Sreb1,ADD-1,SREBP1,SREBP-1,SREBP-1a,SREBP
A_51_P403814 C330016K18Rik,C330006M16
A_51_P464918 Mefv,FMF,pyrin,TRIM20
A_51_P315646 Nfs1,m-Nfs1

A_51_P469968 H2-M3,Hmt,M3a,H-2M3
A_51_P419666 Adam11,Mdc
A_51_P365694 Rala,Ral,Rasl1,3010001O15Rik
A_51_P478569 5930437A14Rik
A_51_P188772 Rgnef,RIP2,RhoGEF,Rhoip2,D13Bwg1089e,9230110
A_51_P274274 Arid4a,Rbbp1,A630009N03,A630067N03Rik
A_51_P464900 Gabbr1,GABAbR1,bM573K1.1
A_51_P510997 Atp7b,tx,WND,Atp7a
A_51_P389705 4931440N07Rik,XRG8,Gm1031,MGC67219
A_51_P217369 1200003M09Rik,AI415602
A_51_P274223 Fgf17
A_51_P469979 AK007258
A_51_P470542 Apob
A_51_P226567 Hsd3b2
A_51_P188704 Unc13a,Munc13-1,2410078G03Rik
A_51_P404766 Tik2,Tik,PKUalpha
A_51_P427624 Pgc,Upg1,Upg-1,2210410L06Rik
A_51_P323878 Coro7,AW556392,0610011B16Rik
A_51_P478548 Cited2,Mrg1,Msg2,p35srj,ER154-like
A_51_P469942 Myocd,Srfcp,BSAC2A
A_51_P427603 BC018242,PRG-4,MGC25492
A_51_P389724 Rara,RAR,Nr1b1,RARalpha1
A_51_P504037 Smarca2,brm,Snf2l2,brahma,SNF2alpha,2610209L1
A_51_P442990 Lrpprc,LSFC,GP130,Lrp130,3110001K13Rik
A_51_P442993 Npas1,MOP5
A_51_P255142 Blcap,Bc10,MGC102074
A_51_P419656 Klk27,Gk27,mGK-27,Klk1b27
A_51_P226542 Rpusd2,9630001E10,4921503C21Rik
A_51_P232474 Zswim1,2410003H12Rik
A_51_P410361 Lin7a,Veli,Veli1,LIN-7A,MALS-1,TIP-33
A_51_P249537 Wdr24,MGC47001
A_51_P439836 NAP092202-001
A_51_P217336 Scamp1,4930505M11Rik
A_51_P249578 2310050C09Rik
A_51_P511511 Stk33,4921505G21Rik
A_51_P504053 AK076973
A_51_P518893 Ccin,4933417A14Rik
A_51_P431470 Mmd,1200017E07Rik,1810073C06Rik
A_51_P249544 2410004L22Rik
A_51_P236042 Plcb3,KIAA4098,mKIAA4098
A_51_P274259 Ak5
A_51_P410346 Ptch2,ptc2
A_51_P271930 1700018B08Rik,1700084O22Rik
A_51_P510900 Serpini2,1810006A24Rik
A_51_P511521 4932411A10Rik,Tce6
A_51_P188782 Ube2s,E2-EPF,MGC101982,0910001J09Rik,672046
A_51_P461822 Svp2,Svp-2,SVS-IV
A_51_P232411 Rag1,Rag-1
A_51_P185499 Prkar1b,Rlbeta
A_51_P496253 Slc6a4,Htt,Sert,5-HTT
A_51_P249559 Lrrc6,L RTP
A_51_P291062 Col16a1,CA1F,2700007F12Rik,A530052M23Rik

A_51_P169714 Shc2,SCK,Sli,ShcB,6720466E06
A_51_P316523 Irf2,Irf-2,9830146E22Rik
A_51_P504073 1200013B22Rik,Snark,mKIAA0537
A_51_P410312 Kif16a
A_51_P166695 Inpp5b,75kDa,INPP5P
A_51_P217307 NM_027796
A_51_P333216 Gja5,Cx40,Cnx40,Gja-5,5730555N10Rik
A_51_P316514 TC959579
A_51_P232439 BC018507,MGC27742,mKIAA0947
A_51_P504065 Spa17,Sp17
A_51_P124606 Nat2
A_51_P333253 Myo1g,myosin 1G,E430002D17Rik
A_51_P291078 2310045A20Rik,mKIAA0746
A_51_P461801 Odf1
A_51_P510914 3100002L24Rik,1600017I02Rik,2310011F05Rik,290
A_51_P389785 Sf3a2,66kDa,PRP11,SFA66,Sap62
A_51_P504090 Olfr157,OR37C,mOR37c,Olfr37c,MOR262-12
A_51_P442933 Amigo3,ali3,mKIAA1851,E430002N15Rik
A_51_P168789 Xylb
A_51_P333279 Hcn3,Hac3,Hcn4,Bcng4,BCNG-4
A_51_P146941 Hmgcs1,MGC36662,B130032C06Rik
A_51_P511560 Acs13,ACS3,Facl3,PRO2194,2610510B12Rik
A_51_P333274 Gzmb,CCP1,Ctla1,Ctla-1,CCP-1/C11
A_51_P316575 G630013P12Rik,KIAA1241,mKIAA1241,B130055N2
A_51_P421882 2610027O18Rik,KIAA1393,mKIAA1393
A_51_P305583 Sp100,A430075G10Rik
A_51_P298564 4932436B18
A_51_P138790 Plekhf2,ZFYVE18,1110070J07Rik
A_51_P124618 5730510P18Rik
A_51_P431491 Rab11fip3,MGC47508,mKIAA0665,Rab11-FIP3,D03
A_51_P217382 Kif1c,Ltxs1,D11Bwg1349e,B430105J22Rik
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A_51_P298538 BC006705,Prmt7,MGC7929,4933402B05Rik
A_51_P138744 Ptpn4,TEP,Ptn4,PTPMEG,hPTP-MEG
A_51_P107701 AI839651
A_51_P124647 3200002M19Rik,6330414C15Rik
A_51_P430223 Olfr749,Ors1,ORL461,MOR106-1
A_51_P346445 Hspb7,27kDa,cvHsp,Hsp25-2,MGC107591
A_51_P461844 Pafah1b2,Pafahb,mus[b]
A_51_P404785 Cdk10
A_51_P107738 1810049O03Rik,MGC91131
A_51_P392593 C630007L23Rik,Dmxl1,D030030C22
A_51_P388268 Olfr402,MOR255-4
A_51_P146970 Dmrt2,Terra
A_51_P208083 S100b,Bpb,MGC74317
A_51_P138772 Ddx27
A_51_P263419 Zfp30,Zfp-30,2610306P15Rik
A_51_P231320 Mmp8
A_51_P399334 D11Moh35,C030047H17Rik
A_51_P392546 BC023882,D4S43h,D5H4S43,D5H4S43E,MGC3699
A_51_P138760 Abcd4,P69r,P70R,Pxmp1l
A_51_P168708 Atp5f1

A_51_P382588 Mbtps1,S1P,Ski1,SKI-1,0610038M03Rik
A_51_P298514 Mapkap1,D230039K05Rik
A_51_P124665 Sprr2h
A_51_P399305 Tnfrsf19,TAJ,Troy,TRADE,Tnfrsf20,TAJ-ALPHA
A_51_P399300 L1Md-Tf30
A_51_P185415 Il5,Il-5
A_51_P442964 5730505K17Rik
A_51_P217395 BC018285,MGC18824
A_51_P131653 1700021C14Rik
A_51_P208019 0610009J22Rik
A_51_P185458 Vps13b,Coh1,mKIAA0532,mKIAA5032,4732488H20
A_51_P124694 Olfr859,MOR146-3
A_51_P150145 AK077046
A_51_P297694 2610031L17Rik,MGC11655,MGC36967,MGC38351,
A_51_P365516 Spink3,p12,MGC107555
A_51_P294402 Scarf2,NSR1,Srec2,Scarf1,Scarf1,SrecII,SREC-II,SR
A_51_P472329 4632415K11Rik
A_51_P138705 Prm2,Prm-2
A_51_P472323 Fbxo18,Fbx18
A_51_P208031 Cnot6l,MGC29037,4932442K20Rik
A_51_P109258 Cys1,ck,cpk,Ccap,2900006B19Rik
A_51_P444920 Olfr22-ps1,Olfr22,MTPCR35,MOR135-18
A_51_P150175 Ube4a,UFD2b,4732444G18Rik,9930123J21Rik
A_51_P177071 Nrg3
A_51_P163316 BC008163,MGC11672
A_51_P231364 D5Erttd135e,9130208G10
A_51_P482683 BC034507,MGC30495
A_51_P353173 2810405J04Rik
A_51_P399373 Wasf2,WAVE2,D4Erttd13e
A_51_P119460 Cstf2,64kDa,Cstf64,C630034J23Rik
A_51_P382544 1700123I01Rik
A_51_P119469 Rab6ip2,ELKS,RAB6IP2A,RAB6IP2B,mKIAA1081,50
A_51_P208073 BC004701,MGC7766,D330021P09Rik
A_51_P119429 4930568P13Rik,Hemp1
A_51_P382500 Al317237,KIAA1463,mKIAA1463,4932422C22
A_51_P208051 BF167521
A_51_P478698 AK032544
A_51_P177092 Stat4
A_51_P365521 Atp5o,ATPO,OSCP,D12Wsu28e
A_51_P166762 Psme3,Ki,pa28g
A_51_P205524 Otor,Fdp,MIA,MIAL,CDRAP
A_51_P353118 3230402G14Rik
A_51_P150105 Ppnr,mp41
A_51_P260639 Elp3,2610507P14Rik
A_51_P119401 Al316828
A_51_P107782 Fvt1,6330410P18Rik
A_51_P382561 9530043G02Rik
A_51_P382524 Atp8b2,Id
A_51_P358171 Slc2a8,GLUT8,GlutX1,D2Erttd44e
A_51_P214985 Zfp521,Evi3,B930086A16Rik
A_51_P455671 Psm5,S5b,KIAA0072,mKIAA0072,1500032A03Rik
A_51_P397639 Trrap

A_51_P131661 Riok3,Sudd,D18ErtD331e,1200013N13Rik,E130306C
A_51_P177062 Nup205,mKIAA0225,3830404O05Rik
A_51_P403942 Ckm,MCK,Ckmm,M-CK
A_51_P194099 Thrsp
A_51_P359078 2400006H24Rik,Mog1,Rangnrf,MGC107268
A_51_P129285 Slc17a2,NPT3,MGC19073,C730032N17Rik
A_51_P297671 Gyk,GK,D930012N15Rik
A_51_P482600 Btf3,1700054E11Rik
A_51_P289310 A230057D06Rik
A_51_P260658 5730457F11Rik
A_51_P419169 Suv39h2,D2ErtD544e,4930507K23Rik,D030054H19I
A_51_P287418 Man1a,PCR1
A_51_P455681 Cd3e,CD3,T3e,CD3epsilon
A_51_P226053 Sra1,SRA,STRAA1,Strra1
A_51_P129299 Sypl,Pphn,Pan I,D12ErtD446e
A_51_P180952 Tnfrsf9,ILA,Ly63,4-1BB,Cd137,CDw137
A_51_P231398 Pscd4,FLJ00017,mFLJ00017,2510004M07Rik,58304
A_51_P249286 Rgs16,Rgsr,Rgs14
A_51_P226066 4930562A09Rik
A_51_P194065 Tbx10,Dc
A_51_P205564 Cri1,EID1,EID-1,ORF12,PTD014,PNAS-22,2610002I
A_51_P382512 A230102I05Rik,MGC31575
A_51_P455657 4632404N19Rik
A_51_P478688 Samd10,E130318E08,D930033N23Rik
A_51_P419147 Lpxn,LDPL,4933402K05Rik,A530083L21Rik
A_51_P205545 Creld1
A_51_P510882 Adam12,M[a],Mltna,KIAA4001,mKIAA4001
A_51_P504105 Ubqln1,DA41,Dsk2,XDRP1,Plc-1,D13ErtD372e,111C
A_51_P194022 2610528A17Rik
A_51_P431347 Plpi,PLP-H,PLP-I,1600016E11Rik
A_51_P170725 1300002K09Rik
A_51_P287436 1810029C22Rik
A_51_P417677 ORF34,D930001I21Rik
A_51_P194070 Pam
A_51_P419175 Adam33,Adaml
A_51_P478672 Suclg2,MGC91183,D6Wsu120e
A_51_P482639 Scamp3,Sc3
A_51_P478678 Angptl1,ANG3,ANGY,ARP1,ANGPT3,MGC100363,2
A_51_P166706 AK028934
A_51_P397673 Pcsk9,FH3,Narc1,HCHOLA3,MGC47409
A_51_P320386 Pja2,MGC27629,Neurodap1,mKIAA0438
A_51_P360077 Tspan9,6720474K14Rik,9430079M16Rik
A_51_P305061 0610039K10Rik
A_51_P496780 AU016977,9530023G02
A_51_P504127 Krtap5-4
A_51_P260683 Rgs1,BL34
A_51_P431364 Cd3z,Cd3,T3z,Cd3h,TCRk,Tcrz,CD247,CD3-eta,CD:
A_51_P205559 1700019G17Rik
A_51_P214916 Ndufs5
A_51_P260692 4933407C03Rik
A_51_P226016 Slc30a4,Im,Znt4
A_51_P199168 Cidea

A_51_P353183 Prdx1,PAG,Paga,Prxl,TDX2,MSP23,NkefA,OSF-3,TI
A_51_P478610 Asb6,2510004M11Rik
A_51_P249268 D130043K22Rik,4930451E12Rik
A_51_P291749 Pecr,2400003B18Rik
A_51_P271828 2210009G21Rik,2410004I22Rik
A_51_P510849 B230114J08Rik
A_51_P359018 Mapk7,BMK1,ERK5,PRKM7,Erk5-T
A_51_P464838 Il17rb,Evi27,Il17br,IL-17ER,IL17RH1,IL-17Rh1
A_51_P410040 Slc24a2,2810021B17Rik
A_51_P249274 1300017J02Rik
A_51_P153513 4921507P07Rik,TISP74
A_51_P131687 1500041B16Rik,C2orf32,RP23-348N2.3,3110054C0
A_51_P406638 Recc1,140kDa,Alp145,RFC140,MGC96526
A_51_P338413 Al586015,Brdg1,STAP-1
A_51_P359046 Slurp1,ARS,ArsB,Slurp-1,1110021N19Rik
A_51_P504114 Atp11a,Ih,Atpc1h,4930558F19Rik
A_51_P482670 4631427C17Rik,mKIAA0828
A_51_P427736 Gopc,CAL,FIG,PIST,GOPC1,2210402P09Rik
A_51_P291766 Olfr521,MOR101-2
A_51_P167932 E230019M04
A_51_P496779 Akap9,AKAP450,mKIAA0803,5730481H23Rik
A_51_P166783 Bcas3,K20D4,1500019F07Rik,2610027K06Rik,2610
A_51_P352994 Olfr1020,MOR201-2
A_51_P153565 Il18,Igif,Il-18
A_51_P375138 Cd36,FAT,GPIV,Scarb3
A_51_P496741 Nphs1,nephrin
A_51_P431329 Car3,Car-3
A_51_P504162 Svs2
A_51_P249215 Ptger2,EP2,Ptgerep2
A_51_P504134 4933402E13Rik
A_51_P410011 Atr
A_51_P291764 5033403J15Rik,mKIAA1012,D030074E01Rik
A_51_P316431 Harsl,HO3,HARSR,4631412B19Rik
A_51_P217218 Il6,Il-6
A_51_P461902 Igh-4,IgG1
A_51_P496715 4930444A02Rik
A_51_P316446 Nt5c1b,AIRP,CN-IB,4921514H13Rik
A_51_P305008 9530028L01Rik
A_51_P305003 Ntrk1,Tkr,trk,TrkA
A_51_P343851 3110018K12Rik
A_51_P188845 Adora1,A1R,A1AR
A_51_P183703 A_51_P183703
A_51_P129229 lfi47,47kDa,ligp4,lipg4,IRG-47
A_51_P496720 Dnmt3l,D6Ertd14e,MGC102308
A_51_P333712 Pde7b
A_51_P343818 Pgbd5
A_51_P132185 Stfa1,Stf1
A_51_P129260 T25625
A_51_P510817 Camk2d,KIAA4163,MGC60852,mKIAA4163,[d]-CaM
A_51_P504194 Il1f6,Fil1,Il1f9,IL-1H1,IL1RP2
A_51_P141432 lpo11,Ranbp11,1700081H05Rik,2510001A17Rik,E3:
A_51_P167979 E330038N15Rik,Slick

A_51_P132170 Ttn,mdm,shru,1100001C23Rik,2310036G12Rik,2310036G12Rik,2310036G12Rik
A_51_P300655 5730478M09Rik
A_51_P291713 Ncald,D15Ertd412e,D030020D09Rik
A_51_P274789 Rai14,Norpeg,mKIAA1334,Ankycorbin,1700008J19Rik
A_51_P124748 Tgfb3,Tgfb-3
A_51_P343833 Traf1,4732496E14Rik
A_51_P124741 Ppp1r14c,KEPI,6330514J04Rik
A_51_P325274 Zfp95,hKra1
A_51_P346543 Tle4,Bce1,Grg4,Bce-1,ESTM13,ESTM14,5730411M09Rik
A_51_P232913 Cpt1b,Cpt1,M-CPT1
A_51_P461947 9030221M09Rik,PISD
A_51_P124719 4633402D15Rik,9230102M16Rik
A_51_P375187 Bxdc1,2810470K21Rik
A_51_P419599 4933411B09Rik
A_51_P431397 BC039282,MGC37347
A_51_P232921 1700058G18Rik
A_51_P427794 D930036B08Rik,ABLIM3,KIAA0843,MGC69876
A_51_P109119 4933404M02Rik
A_51_P337308 Saa3,Saa-3
A_51_P308814 4930584N22Rik,4933424D16Rik
A_51_P308817 V1rc12
A_51_P107265 Arl3
A_51_P141467 Col14a1,5730412L22Rik
A_51_P346565 Sdk2,Sdk-2,mKIAA1514,4632412F08Rik,5330435L0
A_51_P298666 Sfrs15,Sra4
A_51_P150555 Sfxn3
A_51_P217282 Al316861
A_51_P450432 V1re1
A_51_P150598 Tsen2,MGC69703
A_51_P373428 Slc16a13,1700007D07Rik
A_51_P346575 Rhag,Rh50,CD241,Rh50A
A_51_P223092 Zbed3,0610037K01Rik,2610005H11Rik
A_51_P124784 Acpl2,MGC38214,9430094M07Rik,C130099A20Rik
A_51_P417321 Zfp236,Gm335
A_51_P318564 Prkwnk1,Wnk1,mKIAA0344,6430573H23Rik
A_51_P149094 Gpr61
A_51_P447668 Ptpn12,PTPG1,P19-PTP,PTP-P19,PTP-PEST
A_51_P365885 Csf1r,Fms,CD115,Csfmr,Fim-2,CSF-1R,M-CSFR
A_51_P232954 Nvl,1200009I24Rik
A_51_P217295 Prkar2a,Ril(alpha),1110061A24Rik
A_51_P422996 Spred1,5730461F13Rik
A_51_P308862 Gja8,Aey5,Cx50,Cnx50,Lop10
A_51_P263503 Mapk1,ERK,Erk2,MAPK2,PRKM2,Prkm1,p41mapk,p41mapk,p41mapk
A_51_P109171 4632413K17Rik,Os-9,AU022351,1300007E20
A_51_P150069 Leng8
A_51_P124798 3110005G23Rik
A_51_P346516 Ptp4a2,Prl-2,MGC102154,MGC103400
A_51_P472003 4732467L16Rik
A_51_P208330 Camkk1,Camkk,CaMKKalpha,4732414G09Rik
A_51_P382684 Chml,Rep2
A_51_P287587 Zc3hdc6,KIAA2035,mKIAA2035,4631426G04Rik
A_51_P104681 Krtap16-8,1110002D05Rik

A_51_P346523 4930572I07Rik,ZCCHC7
A_51_P168439 4930429H24Rik,1110046J11Rik,6530402O20Rik
A_51_P162794 Gzma,Hf,SE1,TSP1,Ctla3,TSP-1,Ctla-3,H factor
A_51_P308844 Nrn1,Nrn,cpg15,MGC40786,0710008J23Rik
A_51_P472033 Serpina10,PZI,ZPI,MGC25863
A_51_P315077 5033428A16Rik
A_51_P208321 Extl3,Ext1l,KIAA0519,mKIAA0519,2900009G18Rik
A_51_P417891 Trim10,Rnf9,Herf1
A_51_P177502 Ddx19b,2810457M08Rik,4921519L13Rik
A_51_P419086 Gadd45gip1,Crif1,Plinp1,2310040G17Rik
A_51_P294113 5630401D06Rik
A_51_P243418 Clec2g,Ocilrp1,4632413B12Rik
A_51_P208355 Mcm8,5730432L01Rik
A_51_P511787 Casp11,Casp4,Caspl,ich-3,Caspase-11
A_51_P482951 Fpgs
A_51_P168412 Grp58,Erp,Plca,58kDa,ERp57,ERp60,ERp61,PDI-Q2
A_51_P433338 Ccrk,p42,CDCH,PNQLARE,MGC38901,4932702G04
A_51_P417351 MP4,MP6
A_51_P333780 Cd164,A24,A115,MSSP,MGC-24
A_51_P264114 Galnt5,4832424J23
A_51_P150014 1110014J01Rik
A_51_P205242 Mphosph1,B130024C23,C330014J10Rik
A_51_P397394 Cobll1,Coblr1,1810047P18Rik,D430044D16Rik
A_51_P298688 5330408N05Rik,KIAA1800,mKIAA1800
A_51_P208340 Olfr113,MOR218-9
A_51_P417399 Atp5g2,1810041M08Rik
A_51_P482940 Leprotl1,1110067H13Rik,1520402O14Rik
A_51_P297140 Fbxo40,KIAA1195,mKIAA1195,9830003A13Rik
A_51_P150023 1700023E05Rik
A_51_P472049 5530401N12Rik
A_51_P243435 Hsd17b1,E2DH,17HSDB1,Hsd17ba,17beta-HSD
A_51_P382647 Olfr399,MOR255-1
A_51_P308898 Camk1g,MGC30513,CLICK-III
A_51_P381821 Fst
A_51_P353606 Adam1a,Ftna,Adam1
A_51_P482936 Btbd14a,0610020I02Rik,C030048H19Rik
A_51_P472078 8430432A02Rik
A_51_P309158 9130017C17Rik
A_51_P382608 Olfr483,MOR204-12
A_51_P397375 Pet112l,MGC11629,9430026F02Rik
A_51_P188981 AK042566
A_51_P381873 Bub3
A_51_P419047 Esrrb,ERRb,Err2,Nr3b2,Estrrb
A_51_P501304 Plag1
A_51_P482925 Pphln1,HSPC206,HSPC232,MGC27795,1110063K0
A_51_P455128 4930563E19Rik,4933429D11Rik
A_51_P107282 Taz,G4.5,XAP-2,5031411C02Rik,9130012G04Rik
A_51_P381801 Arf5
A_51_P233947 Tbc1d10b,1110003P22Rik
A_51_P353663 Cdc26,2010012C09Rik
A_51_P358052 1700093J21Rik
A_51_P188993 1110001P11Rik

A_51_P205215 4631423F02Rik
A_51_P404992 Efhc2,mRib72-2,4933407D04Rik
A_51_P315027 AF529169,DD1
A_51_P177597 Agrn
A_51_P205209 Cd244,2B4,C9.1,Ly90,NAIL,Nmrk,NKR2B4,SLAMF4
A_51_P260548 Glg1,CFR,CFR-1,ESL-1,MG160,Selel,MG-160
A_51_P194345 Ppfia1,LIP1,LIP.1,liprin,C030014K08Rik
A_51_P226341 2810004N20Rik,PLIP,Ptpmt1,1110001D10Rik
A_51_P382618 Casp3,Lice,Yama,CPP32,Apopain,Caspase-3,A830C
A_51_P365854 BC022623
A_51_P260578 St8sia2,STX,Siat8b,ST8Siall
A_51_P365859 A830006N08Rik
A_51_P274477 Mipol1
A_51_P297131 Vcl,9430097D22
A_51_P501396 Trpm7,CHAK,CHAK1,Ltpr7,Ltrpc7,TRP-PLIK,231002
A_51_P389539 Mass1,VLGR1,Frings
A_51_P249348 AU024582,MGC38812
A_51_P419078 Mdn1
A_51_P226364 D11Ert99e,HSPC009,1810033A19Rik
A_51_P255757 Bcl2l13,Mil1,Mil-1,MGC38758,BCL-RAMBO,E430010
A_51_P177583 2410104I19Rik,SIAHBP1
A_51_P274461 Ott
A_51_P249305 2410116I05Rik
A_51_P188902 D330013L20Rik,Gm85,4-B-3,MGC76603
A_51_P264186 Atp5h,0610009D10Rik
A_51_P504237 2010106G01Rik,Sppl2A,C130089K23Rik
A_51_P482990 Arid5a,Mrf1,MGC36895,D430024K22Rik
A_51_P249360 Suox,MGC28458
A_51_P249363 4930417O22Rik
A_51_P113144 Ap1s2,EST1,1500012A13Rik
A_51_P194306 Lrrc1,KIAA4018,MGC90936,mKIAA4018,D030059I2
A_51_P444476 Ccr4,LESTR,Sdf1r,Cmkbr4
A_51_P188911 Galnt12,9130206E10,A630062B03Rik
A_51_P487813 Lxn
A_51_P132013 Cysltr2,Cltr2,Cyslt2,CYSLT2R,2300001H05Rik
A_51_P513803 Fbxo4,1700096C12Rik
A_51_P427812 B130017P16Rik
A_51_P305311 Plau,uPA,u-PA
A_51_P113182 Lifr
A_51_P344346 D530004J12Rik,Gm458
A_51_P205286 Pcsk4,PC4,SPC5,MGC63195,0710008O07
A_51_P274436 Star,D8Ert419e
A_51_P496031 Ar,Tfm
A_51_P389506 2810453I06Rik,1500026F15Rik
A_51_P487832 6330546B05
A_51_P496074 Hrb1,RABR,MGC7148,MGC61203,A630095P14Rik
A_51_P289097 Dcx,Dbct
A_51_P315085 9130229H14Rik,KIAA0268
A_51_P496023 Prdx6,GPx,Aop2,CP-3,Ltw4,Ltw-4,ORF06,Prdx5,Brp
A_51_P316733 Dhd2,SAMWD1,2010305K11Rik
A_51_P153624 Impg2,Rsbp,IPM200,PG10.2,Spacrcan
A_51_P249313 Herc3,MGC30404,5730409F18Rik

A_51_P511734 Snip1,2410133M08Rik
A_51_P226392 Gabre
A_51_P487818 Fabp1,Fabpl,L-FABP,MGC13855
A_51_P205290 2810441C07Rik,mKIAA1626
A_51_P249335 Sds,4432411H13Rik
A_51_P404921 Smr1,MSG1
A_51_P410260 Pip5k1a,STM7,Pipk5a
A_51_P496057 Zcchc14,BDG29
A_51_P371892 2700046A07Rik,A330042I05Rik
A_51_P404953 Fbxl10,Cxxc2,Fbl10,PCCX2,KIAA3014,mKIAA3014,f
A_51_P427854 Lhx3,Lim3,P-LIM,mLIM3,mLim-3
A_51_P110173 Ing5,1700001C14Rik,1700027H23Rik,1810018M11F
A_51_P305994 Cgb,CGB3
A_51_P496001 Armcx1,ALEX1,3010033I09Rik
A_51_P389597 Ins2,Mody,Ins-2,Mody4,proinsulin
A_51_P504028 St6galnac1,Siat7a
A_51_P404904 Slc25a10,Dic
A_51_P466423 Ece1
A_51_P504294 Olfr491,MOR204-11
A_51_P169516 2610024M03Rik,Gm359,Ppp1r3d
A_51_P417590 Jmjd1c,TRIP8,Jmjdic,5430433L24Rik,D630035I23Ri
A_51_P466436 5430420C16Rik
A_51_P168580 1700112M01Rik,4933411J23Rik
A_51_P362877 Il21r,NILR
A_51_P316772 Nup188,mKIAA0169
A_51_P132081 LOC380855
A_51_P447707 4932422E22Rik
A_51_P291637 Hspb9,1700007H20Rik
A_51_P150430 Mkrn2,2610002L04Rik
A_51_P208697 Ttl,2410003M22Rik
A_51_P346668 Irf5,mirf5
A_51_P466448 BC035295,taip-12,MGC28165
A_51_P447743 AK051581
A_51_P138598 2310014H19Rik,1810038N08Rik
A_51_P337451 Hs6st2,6OST2
A_51_P138596 B230339M05Rik,mKIAA1219,9330195P16
A_51_P333060 Dicer1,D12Ertd7e,mKIAA0928,1110006F08Rik
A_51_P487892 Pcnxl3,KIAA4073,mKIAA4073
A_51_P447714 Rbmxrt,Hnrpg,MGC102184
A_51_P362857 4930427A07Rik,FLJ00116,mFLJ00116
A_51_P511745 4933439F18Rik
A_51_P244655 Rsbn1,Rsbn,Rsbp,Rosbin,mKIAA3002,E330004N01,
A_51_P138548 Hmgb3,Hmg4,Hmg2a
A_51_P333099 Mrps15,Mprs15,1500003E24Rik,2410002B11Rik
A_51_P119670 Gcnt1,IGnT,B130048E03,C2 GlcNAcT,5630400D21F
A_51_P139930 V1rb2,V1r5,VRi2
A_51_P185639 Ptpfr,LAR,LARS
A_51_P124477 Rfxap,5730495K23Rik
A_51_P208680 Chtf18,Chl12,MGC38008,6030457M03Rik
A_51_P466478 Ptpfr,LAR,LARS
A_51_P305936 Nedd4l,Nedd4b,Nedd4-2,1300012C07Rik
A_51_P308931 Hcrt,PPOX

A_51_P447785 Cyp2c55,2010318C06Rik
A_51_P399106 9030617O03Rik
A_51_P107558 Tbx22,D230020M15Rik
A_51_P231549 Mill2
A_51_P365757 Fip1l1,Rje,1300019H17Rik
A_51_P168524 Mobk1b,MOB1,MOB4B,MGC6884,4022402H07Rik
A_51_P447752 2310002F18Rik,Coq2,MGC91278
A_51_P466490 Armc5,MGC36606,MGC102240
A_51_P138502 Al428795,MGC7623,6030435N04
A_51_P382764 Akr1c20,2610528B18Rik
A_51_P107547 Olfr571,MOR21-1
A_51_P353360 Farslb,Frsb,Farsa,Farsl
A_51_P346600 Dppa4,2410091M23Rik
A_51_P177274 Slc6a20,XT3,Sit1,Xtrp3
A_51_P119636 Atp8a1,APLT,Atp3a2,Class I,KIAA4233,mKIAA4233,
A_51_P472574 Fgf22,FGF-22,2210414E06Rik
A_51_P243503 Itch,KIAA4011,mKIAA4011,A130065M08,6720481N4
A_51_P138538 1500010M16Rik,Gc20,3110001N14Rik
A_51_P399175 Ppm1j,Ppp2cz,2310008J22Rik
A_51_P223404 M6prbp1,1300012C15Rik
A_51_P382789 1700001D09Rik,4930578J19Rik
A_51_P185660 Ccl9,CCF18,MRP-2,Scya9,Scya10
A_51_P168545 Ifnar1,lfar,lfr,CD118,lfnar,lfar
A_51_P385940 A_51_P385940
A_51_P353345 1700055N04Rik
A_51_P150354 Jmjd2c,Gasc1,2410141F18Rik
A_51_P399143 Rbp2,Rbp-2,Crbp-2,CrbpII
A_51_P472518 Capn1,Capa1,Capa-1,mu-calpin
A_51_P138510 Gzmc,CCP2,Ctla5,Ctla-5
A_51_P107591 Klrb1b,Ly55b,NKR-P1B,Nkrp1-b,NKR-P1 34
A_51_P417251 6330403K07Rik,UGS148
A_51_P107599 Smad5,Dwf-C,Madh5,MusMLP,1110051M15Rik
A_51_P124499 Man1
A_51_P287691 Kremen2,2900054E04Rik
A_51_P419389 Bmpr2,BMP-2,BMPR-II,2610024H22Rik
A_51_P150302 Crtam
A_51_P131442 Neud4
A_51_P177242 Unc13b,Unc13a,Unc13h1,Unc13h2,Munc13-1,Munc'
A_51_P233815 1810020E01Rik
A_51_P518592 Sca7,ataxin-7
A_51_P450957 Acta2,Actvs,a-SMA,0610041G09Rik
A_51_P252947 Mapk8ip1,IB1,Skip,JIP-1,Prkm8ip,mjip-2a
A_51_P365704 Amac1
A_51_P287986 Clstn1,Cst-1,Cstn1,1810034E21Rik
A_51_P417279 0610012G03Rik
A_51_P450924 Pole4,2400007P05Rik,5830430F06Rik
A_51_P260008 Stim2
A_51_P339987 Tmem16f,2900059G15Rik,F730003B03Rik
A_51_P382732 2410016F19Rik
A_51_P194249 Stmn4,RB3,Lagl
A_51_P419364 Bad,Bbc2
A_51_P139985 Rgr

A_51_P382700 2900005J15Rik
A_51_P194293 Svs7,9530004K16Rik
A_51_P478498 Olfr1026,MOR196-4
A_51_P264444 A230067G21Rik
A_51_P205326 C730027P07Rik
A_51_P194224 Zfp509,4930518A03Rik
A_51_P231587 9630050M13Rik
A_51_P382718 Usp8,Ubpy,mKIAA0055
A_51_P287635 P2ry2,P2Y2
A_51_P365790 Rpl30,MGC106425,MGC107559
A_51_P478486 Fus,Tls,Fus1,D430004D17Rik,D930039C12Rik
A_51_P113205 F13b,Cf13b,Cf-13b
A_51_P194273 Sgcg,35kDa,gamma-SG
A_51_P260035 Sara2,CMRD,SARA1B,2310075M17Rik,2900019I22
A_51_P243575 Ptcra,pT[a],pTalpha,pT-alpha
A_51_P482434 NAP057184-1
A_51_P300806 Tlr4,Lps,Ly87,Ran/M1,RasI2-8
A_51_P260020 4921504N20Rik,mszf31,mszf89
A_51_P518503 Ski,MGC8300,BC004088,2310012I02Rik,2610001A1
A_51_P255657 2210011C24Rik
A_51_P287617 Plekhh1,mKIAA1200,D630024D12Rik
A_51_P289131 Dmc1h,Dmc1
A_51_P389885 Spic,Prf,Spi-C
A_51_P397064 Wdr41,MSTP048,B830029I03Rik
A_51_P243596 Mltt6
A_51_P264433 Synj2,SJ2,mKIAA0348
A_51_P231597 E130310K16Rik,C530048M05
A_51_P472588 Rsafd1
A_51_P482410 C430002N04Rik
A_51_P120356 2510027J23Rik
A_51_P287606 1700037C18Rik,2810022L20Rik
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A_51_P389895 Slc35f5,1300003P13Rik
A_51_P338664 Hist3h2ba,1500011O09Rik
A_51_P207054 V1rk1
A_51_P455090 Cps1,CPS,D1Ucla3,4732433M03Rik
A_51_P518522 AK045601
A_51_P347619 3110069A13Rik
A_51_P353392 1200020A08Rik,CRIPT
A_51_P419300 6030457N17Rik
A_51_P482464 Terf1,Pin2,Trf1,Trbf1
A_51_P287677 Rps18,Ke-3,H-2Ke3,H2-Ke3
A_51_P397003 1110065L07Rik
A_51_P431179 4833419E13Rik
A_51_P205334 Tnfrsf8,Ki,Cd30,Ki-1,D1S166E
A_51_P482473 Rps17,MGC107578,MGC107579
A_51_P170536 Mycbpap,AMAP-1,4932408B01Rik
A_51_P199367 Esd,Es10,Es-10,sid478
A_51_P419335 Foxb2,Fkh4
A_51_P165041 Rcn2,TCBP49,TCBP-49

A_51_P249024 Hk1,dea,Hk-1,Hk1-s,mHk1-s
A_51_P205385 Uox
A_51_P518542 Olfr944,MOR171-19
A_51_P518548 Gli1,Zfp5,Zfp-5
A_51_P249051 Pycr2,Leftb,P5cr2,1810018M05Rik
A_51_P170565 4933411G11
A_51_P207028 V1re6
A_51_P470460 4933405K07Rik,4930427I11Rik
A_51_P496590 D19Wsu162e,MGC31104
A_51_P504337 Entpd1,Cd39,NTPDase-1,2610206B08Rik
A_51_P449911 Cnot6,CCR4,A230103N10Rik
A_51_P291585 Mphosph9,MPP9,MPP-9,4930548D04Rik,9630025B
A_51_P260098 Gcdh,9030411L18
A_51_P390397 Ercc1,Ercc-1
A_51_P353386 2410015M20Rik,QIL1
A_51_P478419 Cmya4,Unc45,MGC91090,D230041A13Rik
A_51_P419319 Aqp4,MIWC,mMIWC
A_51_P129038 Bfsp1
A_51_P291548 Zfy1,Zfy-1
A_51_P487913 Ceecam1,CerCAM,2600006K01Rik
A_51_P427917 Il31ra,GPL,CRL3,Glmr,NR10,GLM-R
A_51_P389811 1110018J12Rik
A_51_P290937 Cylc1,4930401M13Rik
A_51_P496569 Slit2,Sll3,Drad-1,KIAA4141,mKIAA4141,E030015MC
A_51_P290931 Ptprb,Ptpz,RPTPB,VE-PTP,3230402H02Rik
A_51_P487964 Olfr714,P4,MOR263-2
A_51_P427926 Smad6,Madh6
A_51_P431107 Pmm1
A_51_P478400 Arhgef1,Lsc,Lbcl2
A_51_P338633 Olfr727,MOR246-2
A_51_P504314 1110021E09Rik
A_51_P375322 1700027J05Rik
A_51_P290921 Sytl2,Slp2,Slp2-a,Slp2-b,Slp2-c,Slp2-d,KIAA1597,mf
A_51_P362969 Arfgap3,Arfgap1,0610009H19Rik,1810004P07Rik,18
A_51_P389864 C76566
A_51_P290904 A430091O22Rik,4732493M14
A_51_P375360 Krtap6-1,HGTpll.1,HGTpll.2,1110025L11Rik
A_51_P504354 Nrarp,2700054M22Rik
A_51_P291529 AK077428
A_51_P255682 Mfge8,P47,Mfgm,SED1,MFG-E8
A_51_P202003 3100004P22Rik,1700003D06Rik
A_51_P487941 2610209N15Rik
A_51_P129006 B2m,Ly-m11,beta2-m
A_51_P185593 Dmn,Syn,MGC56976,E130104F11,4930412K21Rik
A_51_P202014 Taf12,20kDa,Taf2J,2810422D08Rik
A_51_P362981 Adora3,A3AR,ARA3,Gpcr2
A_51_P487918 5830482F20Rik
A_51_P205390 1700040L02Rik
A_51_P487950 Myo1a,Myhl,BBM-I
A_51_P390310 4930430A15Rik
A_51_P316616 BC004728,MGC7903
A_51_P289193 Laf4,LAF-4,3222402O04Rik

A_51_P399593 Phr1,Pam,C130061D10Rik
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A_51_P410205 Hsd11b2
A_51_P427964 Lmod3,5430424A14Rik
A_51_P202033 5031439A09Rik
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A_51_P291501 C86987,E130318K11
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A_51_P124535 Mest,Peg1
A_51_P333526 Abcd3,PMP68,PMP70,Pxmp1
A_51_P300476 Tmem16b,MGC38715
A_51_P274947 Atad1,4921525H23Rik
A_51_P390334 8430408O14
A_51_P298455 C630035N08Rik
A_51_P202040 2610510H03Rik
A_51_P153982 2810012G08Rik,KIAA4061,mKIAA4061,B230396K10
A_51_P223315 Sh3glb1,Bif-1,KIAA0491,mKIAA0491
A_51_P202050 Dtx1,Fxit1,KIAA4160,mKIAA4160
A_51_P223624 Zfp74,KRAB8,Zfp66,mszf21,mszf77,2810054M15Rik
A_51_P362903 Mrps22,Rpms22,3100002P07Rik
A_51_P300456 2310075M15Rik,mKIAA0230,E330004E07
A_51_P487999 Sgol1,Sgo1,MGC113769,3300001M08Rik
A_51_P223611 Pde3b
A_51_P511151 Hist1h4b
A_51_P193821 Arr3,mCAR,mCARFL
A_51_P362959 Fbxo36,D1Ertd757e,0610008D19Rik,1110020F21Ril
A_51_P141660 Dmxl2,6330586A12,E130119P06Rik
A_51_P423444 Fez2,9030616F16,D17Ertd315e
A_51_P346722 Ndr3,Ndr3,4833415O14Rik
A_51_P410286 Jmjd2b,MGC6349,mKIAA0876,4732474L06Rik
A_51_P447471 Gtdc1,E330008O22Rik
A_51_P391445 Ifngr1,Ifgr,CD119,Ifngr,Nktar,IFN-gamma R
A_51_P390377 Rcor3,MGC28186,4921514E24Rik,C730034D20Rik,
A_51_P511480 Esrrb1,Hippi,lft57,MHS4R2,4833420A15Rik
A_51_P244127 Tkt1
A_51_P482795 A530083I20Rik
A_51_P300986 Map3k5,ASK1,Mekk5,MAPKKK5,7420452D20Rik
A_51_P223396 9130422G05Rik
A_51_P346704 Sox10,Dom,Sox21
A_51_P472219 Gm169,MGC28365
A_51_P138450 Gja7,Cx45,Cnx45,Gja-7,C130009G16Rik
A_51_P472217 2010317E24Rik,ang,6030458L21Rik
A_51_P124550 Dp111,Reep6,0610011M24Rik
A_51_P423456 Sort1,Ntr3,Ntsr3,2900053A11Rik
A_51_P168245 4930594C11Rik
A_51_P447454 Zfp644,Zep-2,BM-005,D5Ertd689e,1110068L01Rik
A_51_P417109 Zfp51,Zfp-51,mszf92,zfec12
A_51_P138429 Btc
A_51_P362915 Ripk5,C820013G01,A930019K20Rik,C430014H23Ri
A_51_P208132 5830406J20Rik
A_51_P333594 A_51_P333594
A_51_P109364 D130072O21Rik

A_51_P177732 Tmem1,Gm870,B230307C21Rik
A_51_P185575 Tsrc1,MGC28749
A_51_P417179 Fgfr1op,FOP,MGC90966,4930553O10Rik
A_51_P243623 Brms1l,BRMS1,D12Ert407e,0710008O11Rik
A_51_P472274 Sox18,Ra,Ragl
A_51_P208121 BC027373,MGC36331
A_51_P109357 Olfr1120,MOR264-2
A_51_P177744 Zc3hav1,ZAP,1200014N16Rik,2900058M19Rik,913C
A_51_P399277 Hsd17b9,Rdh8,17betaHSD9
A_51_P141686 D14Mgi8
A_51_P185563 Dhx35,Ddx35,1200009D07Rik
A_51_P455326 Sele,Elam,CD62E,E-selectin
A_51_P208152 3930402G23Rik
A_51_P399265 Smok2
A_51_P168219 Mrp63,2610025P17Rik
A_51_P518488 Atpif1,If1,Atpi
A_51_P455356 St8sia1,GD3S,Sia-T,Siat8,Siat8a
A_51_P168203 Aig1,CGI-103,1500031O19Rik
A_51_P346715 D4Wsu53e,D4Ucla2,2700043I21Rik
A_51_P419726 Ptpns,PTP,Ptpt9,PTP-NU3,MGC90571,PTPsigma,RF
A_51_P107099 D10Ert407e
A_51_P208145 Si,gp87,gp100,Pmel17,D12S53Eh,D10H12S53E
A_51_P419263 Rnmt,mKIAA0398,2610002P10Rik
A_51_P511199 Rps27,3200001M24Rik
A_51_P509881 Polr2b,RPB2,POL2RB,RPB140,MGC47046
A_51_P417186 Hcngp,2700016D05Rik
A_51_P353008 Minpp1
A_51_P300921 1700109F18Rik,1700064D17Rik
A_51_P260721 Nphp1
A_51_P320650 C77370,KIAA2022,mKIAA2022,A230051P11
A_51_P326609 Golga2
A_51_P255565 Smarcad1,Etl1,D6Pas1,mKIAA1122
A_51_P419270 Dnajc5b,1700008A05Rik
A_51_P326601 Epdr1,Ucc1,Merp1,MERP-1
A_51_P205028 Fgf3,Fgf-3,Int-2,Int-P
A_51_P419750 BB085087
A_51_P195947 Pkn2,PRK2,Stk7,Prkcl2,6030436C20Rik
A_51_P231482 Igsf3,V7,Cd101,Igsf2,mKIAA0466,1700016K10Rik,2I
A_51_P300936 Rbbp8,CtlP,9930104E21Rik
A_51_P419246 5830416P10Rik,4833407H14Rik,5430437C04Rik
A_51_P214859 Pxn
A_51_P195958 Phlda1,Tdag,TDAG51,DT1P1B11
A_51_P113753 Gpr74,HG31
A_51_P407227 Gimap6,Ian6,MGC41522,4833419H03Rik
A_51_P482711 Dhcr24,mKIAA0018,2310076D10Rik,5830417J06Rik
A_51_P214882 E130016I23Rik,Itr
A_51_P107090 BC031181
A_51_P298486 Cog6,mKIAA1134,4933405E16Rik
A_51_P472292 Igfbp7,Fstl2,mac25
A_51_P326631 Dnahc8,ATPase,Hst6.7b,P1-Loop
A_51_P249193 C230098I05Rik,Gm637,G630023A01Rik
A_51_P231499 Enpp1,Pca,ttw,twy,M6S1,NPP1,Npps,PC-1,Ly-41,Pc

A_51_P243684 Rps8,MGC107577
A_51_P205000 Lst1,B144
A_51_P260740 Pcdh7
A_51_P353095 Zfyve27,2210011N02Rik,9530077C24Rik
A_51_P214837 Arhgap12,2810011M08Rik
A_51_P472287 D430038H04Rik,Fat3,Gm1132,MFAT3F,9430076A0
A_51_P205035 2610042G18Rik,BB226562,6720430O15
A_51_P287715 3100003L13Rik
A_51_P274635 E030041M21Rik,KIAA0701,mKIAA0701,2010319N2:
A_51_P360374 Krt1-2,Ha3,mHa2
A_51_P354307 Clc6,CLIC1L,Neuronatin,5730466J16Rik
A_51_P195935 4930535B03Rik,mKIAA0460,2810036A19Rik,672040
A_51_P274667 Zcchc2,9930114B20Rik
A_51_P504442 Sf3a1,1200014H24Rik,5930416L09Rik
A_51_P431046 St8sia3,Siat8c,ST8SialII
A_51_P291492 9030221C07Rik,Arpat
A_51_P131942 2410012M04Rik
A_51_P287756 Zfp29,Zfp-29
A_51_P504478 Ubadc1,GBDR1,Gdbr1,1110033G07Rik
A_51_P129317 Prei3
A_51_P274649 Ccnl1,Ccnl,ania-6a,2610030E23Rik
A_51_P372504 Malt1,A630046N12,D430033E09Rik
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A_51_P479132 Zcchc3,2810406K24Rik
A_51_P343954 Prrg4,TMG4,993011118Rik
A_51_P511142 Abca14,1700110B15Rik,4930539G24Rik
A_51_P316151 Dnai2,Gm728,C030015H18Rik
A_51_P504421 C030047K22Rik
A_51_P504423 Cryab,Crya2,Crya-2
A_51_P354354 Gal3st1,CST,Gcst
A_51_P326699 Epha6,Ehk2,Hek12,m-ehk2
A_51_P518452 Cpeb2,A630055H10Rik
A_51_P354345 Zpbp,Sp38,sp-38,4930486K01Rik
A_51_P326685 A930016D02Rik
A_51_P249104 4732421G10Rik
A_51_P470981 Fut10,MGC40819
A_51_P375039 Slc25a17,34kDa,PMP34
A_51_P223025 Dock5,MGC28003,E130320D18
A_51_P162426 Rnf8,AIP37,3830404E21Rik
A_51_P458816 2610301N02Rik
A_51_P316173 V1ri1
A_51_P511176 1810015M01Rik,Wf-1,P53csv
A_51_P205099 Dazap1,2410042M16Rik
A_51_P232889 Peli1,D11Ert676e,2810468L03Rik,A930031K15Rik
A_51_P466633 Slc16a7,Mct2,4921534N07Rik
A_51_P316129 Apg4a,Autl2,MGC107179
A_51_P333669 Hrasls,A-C1,Hrasrs,2810012B06Rik
A_51_P124254 Col4a1,Col4a-1
A_51_P380279 5430413K10Rik,MGC91146,MGC102620
A_51_P466613 Homer3
A_51_P343913 Parp4,PH5P,p193,Gm743,PARPL,VPARP,VAULT3,
A_51_P511102 BC003236,MGC7720,mKIAA1433

A_51_P496604 D7Wsu128e,UBPH,D7Wsu105e
A_51_P291438 Tnc,TN,Hxb,Ten,TN-C
A_51_P511112 H1f0,H1fv,MGC19309,D130017D06Rik
A_51_P141535 Oat
A_51_P316103 D15Ertd366e,Eplin,1110021C24Rik
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A_51_P439426 Acaca,Acac,Acc1,Gm738
A_51_P107378 3110010F15Rik,3'hexo
A_51_P343900 Xrcc1,Xrcc-1,MGC102556
A_51_P124276 Csk
A_51_P162471 Dnajc9,5330419I01Rik
A_51_P504490 D8Ertd233e,6330444B11,4930547K05Rik
A_51_P375088 Olfr701,MOR283-1,4932441H21Rik,4933433E02Rik
A_51_P234853 Sdhd,0710008N11Rik
A_51_P466673 Sfrs7,9G8,35kDa,NX-96,MGC38287,9430065L19Rik
A_51_P185087 Zfp364,2610028E05Rik
A_51_P298997 Gfm2,EFG2,MST027,A930009M04Rik
A_51_P390239 Kremen1,Kremen
A_51_P333630 Spg3a,FSP1,SPG3,AD-FSP,4930435M24Rik
A_51_P456980 Itgb1bp1
A_51_P291417 Thbd,TM,CD141
A_51_P129360 Pthlh,Pthrp,PTH-like
A_51_P431087 Sparc,BM-40
A_51_P495194 Slc24a4,NCKX4,A930002M03Rik
A_51_P107315 Slc5a8,Ait,MGC19357
A_51_P333622 2010300C02Rik
A_51_P456957 Pex11a,PEX11alpha
A_51_P456952 Il2rg,[g]c,CD132,gamma(c)
A_51_P232800 Cdv3,TPP36,2510010F10Rik,C230084J24Rik
A_51_P346893 Extl1,D430033M16Rik
A_51_P223724 Khdrbs2,Slm1,Slim1,6330586C16Rik
A_51_P124209 Olfr1238,MOR231-11
A_51_P417025 Tpst1
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A_51_P346884 2610209M04Rik,Ry1
A_51_P300572 Slc30a1,Znt1,C130040I11Rik
A_51_P109692 Olfr33,ORL181,MOR11-2,MTPCR33
A_51_P365980 2310022B05Rik
A_51_P185071 Olfr135,MOR256-48
A_51_P150648 Lamp1,CD107a,Lamp-1
A_51_P231768 2310035C23Rik,6430401N10
A_51_P316188 Nifun,Nifu,2310020H20Rik
A_51_P399773 BC061928,A930013N06
A_51_P232868 C230078M08Rik
A_51_P490171 Nubp2,D17Wsu11e
A_51_P390276 1300013D05Rik,MGC90568
A_51_P124222 Aqp6
A_51_P107362 Socs2,hg,JAB,CIS2,Cish2,SSI-2,SOCS-2,8030460M
A_51_P456941 Ier5
A_51_P177451 Gpa33,2010310L10Rik,2210401D16Rik
A_51_P168392 4930506L13Rik
A_51_P232858 Rpl14,L14,CTG-B33,CAG-ISL-7,3100001N19Rik

A_51_P107321 Oxct1,Oxct,Scot-s,2610008O03Rik
A_51_P405668 March5,Rnf153,MARCH-V,1810015H18Rik,2310008
A_51_P243721 4932438H23Rik
A_51_P417016 Sfrs3,X16
A_51_P109649 Gtl2,Meg3,D12Bwg1266e,2900016C05Rik,3110050C
A_51_P455266 Ring1,Ring1A,MGC91250
A_51_P107302 Cav1,Cav,Cav-1,caveolin 1,caveolin-1
A_51_P333697 D430020F16
A_51_P208472 Akr1c21,MGC102401,9430025F20Rik
A_51_P473907 Kif3a,Kif3,Kifl,Kns3
A_51_P439452 Insig2,Insig-2,2900053I11Rik,C730043J18Rik
A_51_P381916 2900009C16Rik
A_51_P417053 Tuft1
A_51_P298975 Clcn4-2,Clc4-2
A_51_P231738 Dnajc4,Hspf2,Mcg18,2010301J22Rik
A_51_P472726 Pdlim2,MGC37634,mystique
A_51_P124285 Nkd1,2810434J10Rik,9030215G15Rik
A_51_P208435 4921524J06Rik,Salf,Sblf
A_51_P346803 Sept9,Msf,MSF1,Sint1,PNUTL4
A_51_P177432 A630055G03Rik,Gm537
A_51_P495131 Prlpo,PLP-O,Prplo,1600017N11Rik
A_51_P243709 Tssc1,D12Ertd604e
A_51_P244408 CRG-L1,Acer2,maCER2
A_51_P472730 1700048O20Rik,1700022O21Rik
A_51_P333680 Slc14a2,UT-A3,UT-A5
A_51_P231721 Map2k7,MKK7,sek2,Jnkk2,Prkmk7,5930412N11Rik
A_51_P417074 3110043J09Rik
A_51_P346842 Pcdh11x,PCDHX,A230092L07Rik
A_51_P365903 D1Ertd161e,1300008P06Rik,2810025E10Rik
A_51_P501858 Plekha4,PEPP1,2410005C22Rik
A_51_P298946 1110032D12Rik,Rnp24,Sid394,MGC102446,181002
A_51_P455234 BC006743
A_51_P287093 Ccnb1,Cycb-4,MGC18763,MGC90915,Ccnb1-rs13
A_51_P365932 4930429M06Rik,Gin-1,MGC29171,8430411H10Rik
A_51_P455208 Ptpn13,RIP,Ptpri,PTP-BL
A_51_P330133 Pspc1,5730470C09Rik
A_51_P208410 Ppp1r12c,Mbs85,B430101M08,2410197A17Rik
A_51_P346826 Rragc,Gtr2,RAGC,TIB929,YGR163W,MGC47404
A_51_P330125 Npn3,Srx,TX01,1700127B04Rik
A_51_P260265 Hoxd4,Hox-4.2,Hox-5.1,6030436D05Rik
A_51_P397296 Marveld3,MARVD3,Mrvidc3,1810006A16Rik
A_51_P385718 1190003K14Rik,Pdp3,Pdp 3
A_51_P313127 ENSMUST00000055324
A_51_P313120 Cyp4x1,CYP_a,A230025G20
A_51_P501844 Cyp26b1,CP26,P450RAI-2
A_51_P381957 Ppp2r5c,AW545884,mKIAA0044,D12Bwg0916e,261
A_51_P501840 Dnajb3,Hsj3,Msj1,MSJ-1
A_51_P365952 Dnmt2
A_51_P469288 Zfp131,Znf131,2610109I01Rik
A_51_P469285 Nrp1,Nrp,NP-1,Npn1,NPN-1,C530029I03
A_51_P205170 Zfp282,HUB1,MGC36603,E430019K09Rik
A_51_P518790 Kif14,E130203M01

A_51_P255441 Mrpl43,bMRP36a,4930442D21Rik
A_51_P501815 1500032L24Rik,MGC106724
A_51_P307427 BC028799
A_51_P102235 Pctk1,Crk5,Pctaire1
A_51_P287069 Serpinh1,J6,Cbp1,Cbp2,gp46,Hsp47,BERF-1,Serpin
A_51_P205106 Mlf1,HLS7
A_51_P346874 1700112E06Rik,2700009F18Rik
A_51_P205155 Olfr1038,MOR185-3
A_51_P243755 Slc10a2,ASBT,ISBT
A_51_P255467 Hdac9,HD9,HD7B,HDRP,Mitr,Hdac7b,mKIAA0744,D
A_51_P326709 Za20d1,CEZANNE,Trabid2
A_51_P297244 4930553J12Rik
A_51_P501873 4732407F15Rik
A_51_P177491 Ctrl,Ctra1,Ctra-1,FLJ00366,mFLJ00366,0910001G0
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A_51_P205129 Cx3cl1,CX3C,Cxc3,Scyd1,ABCD-3,AB030188,D8Bw
A_51_P399789 Krtap12-1,D10Jhu14e
A_51_P231793 Dusp22,JKAP,JSP1,MKPX,1110028K04Rik
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A_51_P117711 Bat2d,Bat2d1,mKIAA1096,A630006J20,1810043M2
A_51_P365964 Tor1a,DQ2,Dyt1,torsinA,MGC18883
A_51_P102257 E030037J05Rik
A_51_P504546 Fthfd,Aldh1l1,1810048F20Rik
A_51_P231782 Al642036,Epn4,KIAA0171,mKIAA0171
A_51_P472799 lpmk,Impk,2410017C19Rik
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A_51_P130079 Lrmp,Jaw1,D6Int3,D6Int4,D6Int5,D6Int7,D6Int8
A_51_P205139 Mtap1b,LC1,MAP5,MAP1B,Mtap5,Mtap-5,A230055C
A_51_P336721 Tipin,1110005A05Rik,1110018P21Rik
A_51_P273942 8030423J24Rik
A_51_P390181 A430061O12Rik
A_51_P469203 Olfr692,MOR36-1
A_51_P307498 Foxe3,dyl,FREAC8
A_51_P407371 BC016423,Pap20,KIAA2006,MGC25933,mKIAA200
A_51_P354224 Six2
A_51_P326769 Gnas,P1,P2,P3,GSP,Gsa,POH,GPSA,Nesp,Gnas1,N
A_51_P117739 Figf,Vegfd,VEGF-D
A_51_P481398 Kif11,Eg5,Kif8,Kif11,Knsl1
A_51_P381988 Hmx1,4930442P19Rik
A_51_P289706 Xrn1,exo,Dhm2,mXrn1
A_51_P307463 Dyrk4,Dyrk4a,Dyrk4b
A_51_P418935 Neurl2,Ozz,Ozz-E3
A_51_P255456 Cyp1b1,CP1B,P4501b1
A_51_P418901 Prss2,Ta,TRY8,TRYP,Try2,Tesp4
A_51_P385749 Mcts1,MCT-1,1500019M23Rik
A_51_P316042 Card11,BIMP3,CARMA1,0610008L17Rik,2410011D
A_51_P289720 Olfr273,MOR262-8
A_51_P170371 Hspa8,70kDa,Hsc70,Hsc71,Hsc73,Hsp73,Hspa10,M
A_51_P117752 Asgr1,Asgr,ASGPR1,Asgr-1
A_51_P102296 Mllt2h,Af4,Rob,9630032B01Rik
A_51_P375558 Myoc,TIGR,GLC1A
A_51_P504503 Dvl1,Dvl,KIAA4029,mKIAA4029

A_51_P375550 Olfr1008,MOR187-3
A_51_P132578 Glra3
A_51_P132574 4930592A05Rik
A_51_P518757 Irx3
A_51_P117777 Galt
A_51_P501757 Rgmb,DRAGON,1110059F19Rik
A_51_P469233 Myo5a,d,Dbv,MVa,flr,Myo5,MyoVA,Sev-1,flail,d-120.
A_51_P336790 Lsm5,2010208O10Rik,2310034K10Rik
A_51_P260288 Cpne4,3632411M23Rik,4933406O10Rik
A_51_P518747 Pip5k2a
A_51_P354272 1300001I01Rik
A_51_P185794 Preb
A_51_P390124 Narg1l,1300019C06Rik
A_51_P469261 NAP057024-1
A_51_P375509 5830435K17Rik
A_51_P354289 Cabbp5
A_51_P469252 Zfp647,Es492,6030449J21
A_51_P511623 Timm23,Tim23,MGC46821
A_51_P504362 Cga,HCG,LHA,FSHA,Tsha,aGSU,GPHA1,alphaSU,(
A_51_P401451 Cdc45l
A_51_P511669 Olfr122,MOR263-10
A_51_P124362 Defb9
A_51_P162564 A630018P17Rik,Gm390,MGC93029
A_51_P447248 Aqp11,1700015P13Rik
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A_51_P132530 Cldn22,2210404A22Rik,5330431C14Rik,9530051B0
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A_51_P202201 V1rd1,V1R1,V3R1
A_51_P400054 4930548H24Rik
A_51_P375538 Myb,c-myb,MGC18531
A_51_P124345 Cpne5,MGC47475,A830083G22Rik
A_51_P401458 2610528O22Rik,mKIAA1040
A_51_P511691 Bfar,BAR,RNF47,3010001A07Rik
A_51_P401471 Eef1g,EF1G,MGC103354,2610301D06Rik
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A_51_P270558 2210409D07Rik
A_51_P208793 C1s,C1sa,MGC37773
A_51_P511646 Ndfip2,N4wbp5a,0710001O20Rik,9130207N19Rik
A_51_P223111 1110006G06Rik,B230110F21Rik
A_51_P390164 Wdr11,MGC47139,mKIAA1351,2900055P10Rik
A_51_P141012 Slitrk1,3200001I04Rik
A_51_P162553 Depdc2,6230420N16Rik
A_51_P466558 BC022150
A_51_P447258 Alox12b,Aloxe2,e-LOX2
A_51_P223177 1300018I05Rik
A_51_P511680 AW124722
A_51_P447229 Adra1a,[a]1a,Adra1c
A_51_P185713 Ptdss2,PSS2
A_51_P168092 1200003C05Rik

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A_51_P124313 Olfr414,MOR103-10
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A_51_P208781 Cldn17
A_51_P466591 1600012P17Rik
A_51_P447216 Rasa2,GAP1m,5430433H21Rik
A_51_P417747 Kap
A_51_P139835 Uty,Hydb,KIAA4057,mKIAA4057
A_51_P490605 V1rd3,V3R3
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A_51_P150120 Mgst2,GST2,MGST-II,MGC41409
A_51_P399000 F830020C16Rik
A_51_P239970 Phka2,k,Phk,D330034O08,6330505C01Rik
A_51_P442366 Diap2,DIA3,E430022I22Rik
A_51_P191511 Sfmbt1,Smr,Sfmbt
A_51_P410991 Olfr1125,MOR264-3
A_51_P495049 Ckmt1,Mt-CK,mi-CK,ScCKmit,UbCKmit
A_51_P252859 Cyr61,CCN1,Igfbp10
A_51_P417720 Itga11,4732459H24Rik
A_51_P417725 Pik3r2
A_51_P124388 Pcanap6,PRST,IPCA-6,MGC32471,Prostein,221041
A_51_P353264 Bmp5,se
A_51_P399062 Pex1,ZWS1,MGC102188,5430414H02Rik
A_51_P239994 Sim1
A_51_P495012 Cbx1,Cbx,M31,MOD1,Cbx-rs2
A_51_P185757 BC035954,MGC31683
A_51_P511346 BC004015
A_51_P223199 Osbpl11,ORP-11,9430097N02Rik
A_51_P459240 Gstk1,0610025I19Rik
A_51_P353252 Mal2
A_51_P518688 B830028P19Rik
A_51_P521040 Bet1l,Gs15,2610021K23Rik
A_51_P139848 Wbp5
A_51_P260178 Recql4
A_51_P447299 Fbxo45,MGC19444,MGC90920,2610017J04Rik
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A_51_P243073 Trpm6,TRPM6/CHAK2
A_51_P231630 Zfp239,Mok2,Mok-2
A_51_P353247 Zfpn1a4,Eos,Znfn1a4,A630026H08Rik
A_51_P447287 Fkbp14,FKBP22,MGC18737
A_51_P243063 2810441K11Rik,1110017C22Rik,4921533J23Rik,A9
A_51_P289263 Nek9,C130021H08Rik
A_51_P208767 Metrn,1810034B16Rik
A_51_P423653 Abt1
A_51_P353232 Tnnc2,Tnnc
A_51_P450824 2310016N21Rik,Yip1b,MGC107572
A_51_P339843 Mcpt2,Mcp-2,MMCP-2
A_51_P243036 A530023G15Rik
A_51_P417788 Prop1,df,Prop-1

A_51_P123039 Klk4,PSTS,ESMP1,KLK-L1,Prss17
A_51_P346964 Mrap,Falp,ORF61,1110025G12Rik
A_51_P260169 Gstm5
A_51_P495077 Rabl5,3110017O03Rik
A_51_P260167 Gpr27
A_51_P208722 AV241729
A_51_P287198 Krt1-23,K23,CK23,Haik1
A_51_P177904 Il17,Ctla8,Ctla-8
A_51_P346938 Lrg1,Lrg,Lrhg,MGC102387,1300008B03Rik,2310031
A_51_P231618 Cdh24,MGC67331,1700040A22Rik
A_51_P123047 Smc1l1,SMCB,Smc1,SB1.8,KIAA0178,Smc1alpha,m
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A_51_P102311 Tyr,c,skc35,albino,Tyr<c-em>
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A_51_P326434 1300002A08Rik,Lonp
A_51_P482503 Tpd52l1,D53
A_51_P177965 Pp11r,Tcl-30
A_51_P330090 1810044A24Rik,KIAA1882,mKIAA1882,4632408O1E
A_51_P123066 4930555K19Rik
A_51_P472481 D2lic,LIC3,CGI-60,mD2LIC,MGC7211,MGC40646,49
A_51_P472488 2610024G14Rik
A_51_P199217 C330007P06Rik
A_51_P287100 Cdh16
A_51_P102339 Vrk1,51PK
A_51_P130719 Dpysl5,CRAM,Crmp5,CRMP-5
A_51_P123077 Nubp1
A_51_P231687 Ik,MuRED
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A_51_P354126 Reg3g
A_51_P104933 Trub2,G430055L02Rik
A_51_P243094 V1ra6,V1RA1,V1RA3
A_51_P231697 Itga10,A630048L14
A_51_P482552 Vegfa,VPF,Vegf,VEGF-A,VEGF120
A_51_P123091 2610014H22Rik,mKIAA0304
A_51_P137383 3110023B02Rik
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A_51_P265008 Ppig,CYP,SRCP, B230312B02Rik
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A_51_P410900 Fut10,MGC40819
A_51_P102393 Samd11,MGC38976
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A_51_P521090 2210406O10Rik
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A_51_P410918 A830007P12Rik,MGC7940
A_51_P354102 Gtf3c2,TFIIIC110,mKIAA0011,1300004C11Rik,26100
A_51_P132459 Rpl27a,L27A,MGC66730,MGC107695

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A_51_P265026 Birc1b,Naip2,Naip-rs6
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A_51_P290819 Hint3,HINT4,HINT-4,0610010I17Rik
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A_51_P469338 Tbx5
A_51_P129127 H2-T3,H-2T3,TL antigen
A_51_P132400 Krtap14,Pmg1,mKAP13
A_51_P401504 Col9a2,Col9a-2
A_51_P217990 Hadhb,Mtpb,4930479F15Rik
A_51_P401501 D630002J15Rik
A_51_P265016 Ypel1,Dgl1,Ppil2,mdgl-1,0610009L05Rik,1700016N1
A_51_P216576 V2r16
A_51_P375227 Bcar1,Cas,Crka
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A_51_P274803 A530023O14Rik
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A_51_P469357 C530008M07Rik,Gm516
A_51_P389957 Rgs14
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A_51_P129100 Sec63,5730478J10Rik
A_51_P274830 4930507A01Rik,4930585P15Rik
A_51_P129108 Atf6,ESTM49,9630036G24,9130025P16Rik
A_51_P424221 Irf2bp2,E130305N23Rik
A_51_P170844 4930449A18Rik
A_51_P496432 Acsl1,Acs,Acas,FACS,Acas1,Facl2
A_51_P226142 A630054L15Rik,MGC38041,mFLJ00229
A_51_P375267 Dbnl,Abp1,SH3P7,mAbp1
A_51_P239807 4930432B04Rik,mKIAA0097,3110043H24Rik
A_51_P239800 Myh8,Myhsp,Myhs-p,MyHC-pn,KIAA4211,mKIAA421
A_51_P223665 Erh,Mer,Prei1,MGC103398
A_51_P424275 Mt4,MT-IV
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A_51_P129160 Hectd1,MGC12070,A630086P08Rik
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A_51_P217906 Ctse,CE,CatE,A430072O03Rik,C920004C08Rik
A_51_P216527 Rnf185,MGC19394,1700022N24Rik
A_51_P424290 Olfr1095,MOR179-1

A_51_P202143 1110030L07Rik
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A_51_P162649 Upf3b,UPF3X,RENT3B,5730594O13Rik
A_51_P496400 Med9,Med25,FLJ10193,MGC30366
A_51_P265089 2610206C17Rik
A_51_P316311 Ppfia4
A_51_P316310 Btn1a1,Btn
A_51_P202170 Tex21,tsec-2,4931406F04Rik,4931412D23Rik,49314
A_51_P442655 Dhx40,PAD,DDX40,ARG147,2410016C14Rik
A_51_P107176 4930443G12Rik
A_51_P295389 2010209O12Rik
A_51_P162671 Folr2,FBP2,FR-P3,Folbp2,Folbp-2
A_51_P482801 Asb3,2400011J03Rik
A_51_P390072 Vdp,TAP,115kDa
A_51_P509941 Psmc6,2300001E01Rik
A_51_P141769 Trim17,terf,Rnf16
A_51_P417643 Foxa1,Hnf3a,Tcf3a,Hnf-3a,Tcf-3a
A_51_P390078 Styx,hStyxb,0610039A20Rik
A_51_P259459 Nfkbib,IkB,IkBb,IkB-beta,MGC36057
A_51_P390046 Olfr186,MOR183-9
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A_51_P132491 4930474N05
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A_51_P226199 Tcam1,4930570F09Rik
A_51_P107140 Krt1-24,Ha5,Krtha5
A_51_P162682 4930547C10Rik
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A_51_P375285 Zfp59,Mfg2,Mfg-2
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A_51_P168171 Leng5,0610027F08Rik
A_51_P289341 5830467P10Rik
A_51_P399538 Capns1,Capa4,Capn4,Capa-4,D7Ertd146e
A_51_P239884 Manea,4932703L02Rik
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A_51_P417600 LOC226304
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A_51_P177659 3110057O12Rik,4732404H23,2310068E01Rik
A_51_P399545 Arid2,4432409D24Rik
A_51_P216595 Usp28,mKIAA1515,9830148O20Rik
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A_51_P511386 D3Ertd254e
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A_51_P495379 Fhod1,FHOS
A_51_P289380 Olfr1341,MOR258-1
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A_51_P490323 Pzp,A1m,A2m,MAM
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A_51_P417612 H2-D4,H-2D4
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A_51_P153805 1200011M11Rik
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A_51_P394997 Neurod6,Nex,Atoh2,Math2,Nex1m,Math-2,MGC9071
A_51_P472901 Slc3a2,4F2,Cd98,Ly10,Mdu1,4F2HC,Ly-10,NACAE,l
A_51_P289392 Birc1a,Naip,Naip1,D13Lsd1,Naip-rs1
A_51_P440004 Gspt1,G1st,Gst-1,MGC36230,MGC36735
A_51_P330369 Ssx2ip,Adip
A_51_P287286 Edn3,ls
A_51_P168115 Il21
A_51_P394984 Lpin1,fld,Kiaa0188,mKIAA0188,4631420P06
A_51_P131888 Capns2,2310005G05Rik
A_51_P231946 1700029P11Rik
A_51_P315993 AK080082
A_51_P287272 Tik1,4930545J15Rik
A_51_P102005 Rgs19ip3,Gipc3
A_51_P330353 4932702K14Rik
A_51_P195875 Notch4,Int3,Int-3
A_51_P423791 Pfdn4,C1,C-1,PFD4,0610025M10Rik,1810063B06Ri
A_51_P326529 Col14a1,5730412L22Rik
A_51_P307624 Phkb,MGC62514
A_51_P419007 Hspb3,spb3,27kDa,Hspb3,2310035K17Rik
A_51_P130660 Mrps30,PAP,Pdcd9,2610020A16Rik
A_51_P231920 Lman2l,VIPL,VIP36-like,A630028F14Rik,DKFZp564l
A_51_P231979 Anxa6,Anx6,Cabm,Camb,AnxVI
A_51_P287221 Cyp27b1,Vdr,Cp2b,Cyp1,Pddr,Vdd1,Vddr,Cyp40,Vdr
A_51_P326566 BC026590
A_51_P163979 Olfr49,IC6,MOR118-1
A_51_P472970 Myo6,sv
A_51_P407165 Abhd5,CDS,IECN5,NCIE2,CGI-58,1300003D03Rik,2
A_51_P195862 6030487A22Rik
A_51_P131827 Olfr619,MOR31-5
A_51_P482043 Epm2aip1,mKIAA0766,A930003G21Rik
A_51_P440047 1110067D22Rik,A530071M23
A_51_P231958 2310031L18Rik
A_51_P177691 Gabrr1,GABA-C
A_51_P469098 Mtmr4,ESTM44,ZFYVE11,FYVE-DSP2,mKIAA0647
A_51_P326502 Chek1,Chk1,rad27
A_51_P163958 Spr
A_51_P315964 Nr5a1,ELP,SF1,SF-1,Ad4BP,ELP-3,Ftzf1,Ftz-F1
A_51_P243194 2610019P18Rik
A_51_P315941 Prkcn,MGC47171,4930557O20Rik,5730497N19Rik
A_51_P326542 Dnaja3,Tid-1,Tid1l,1200003J13Rik,1810053A11Rik
A_51_P287206 1810036I24Rik
A_51_P307644 Gtf3a,2010015D03Rik,2610111I01Rik,5330403M05F
A_51_P195808 2610300B10Rik
A_51_P518163 Rnu3ip2,55kDa,U3-55k,D9Wsu10e,MGC25949
A_51_P116946 Atp6v0a4,a4,Atp6n1b
A_51_P116940 Ephx2,Eph2
A_51_P287232 Qars,GLNRS,MGC105238,1110018N24Rik,1200016

A_51_P307650 Nmu
A_51_P482029 Mcoln1,MGC7172
A_51_P149325 Psm8,6720456J22Rik
A_51_P518156 4930553D19Rik
A_51_P354003 Pou3f4,Sif,Brn4,Otf9,Brn-4
A_51_P326555 1700093K21Rik
A_51_P469008 Ehd1,Past1,RME-1
A_51_P354062 Ptgrn,FPRP,CD9P-1,Trim45,4833445A08Rik
A_51_P375761 Tyms,TS
A_51_P265106 Dlat,DLTA,PDC-E2,6332404G05Rik
A_51_P354038 Tmc6,EVER1,D11Ert204e
A_51_P223842 V1rc14
A_51_P195825 Tsnaxip1,TX11,1700016K08Rik
A_51_P482006 8030498B09Rik
A_51_P267995 Rps4x,Rps4,Rps4-1,MGC102174
A_51_P354077 Svil,B430302E16Rik
A_51_P401628 Gpatc2,5830436K05Rik
A_51_P491758 Sprr2j
A_51_P315904 Gadd45g,CR6,DDIT2,OIG37
A_51_P102096 Myc,Myc2,Nird,84769,Niard,c-myc
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A_51_P129464 Scd2,Scd-2
A_51_P307697 Olfr498,MOR204-36
A_51_P511060 Galnact2,4632415D10Rik
A_51_P375714 Mapre1,Eb1,BIM1p,D2Ert459e,5530600P05Rik
A_51_P390744 Olfr1261,MOR234-3
A_51_P265137 Tcf4,ME2,TFE,E2-2,E2.2,ITF2,SEF2,Hnf-4,ITF-2,SE
A_51_P141274 Sec24d,Gm1349,2310020L09Rik
A_51_P511015 Fzd9,mfz9
A_51_P466738 Khlh15,MGC47138,6330500C13Rik
A_51_P129435 1700124K17Rik
A_51_P202440 Rarb,Hap,Nr1b2,RARbeta2,A830025K23
A_51_P316275 Olfr809,MOR108-4
A_51_P223709 Pask,mKIAA0135
A_51_P466773 6820429M01
A_51_P401673 Fgd6,Etohd4,ZFYVE24
A_51_P319810 Arhgap20,mKIAA1391,6530403F17Rik,A530023E23
A_51_P511000 C130090K23Rik
A_51_P401668 Laptm5,E3
A_51_P202418 Gopc,CAL,FIG,PIST,GOPC1,2210402P09Rik
A_51_P456890 Spag9,JLP,Jip4,syd1,JSAP2,JSAP2a,Mapk8ip4,473
A_51_P132715 Rpl35,2410039E09Rik
A_51_P509486 5730410E15Rik,KIAA1472,mKIAA1472
A_51_P308298 Myl9
A_51_P511029 0710001P18Rik
A_51_P390715 Tgfb1,Tgfb,Tgfb-1
A_51_P308290 2810468N07Rik
A_51_P354094 Dock7,mKIAA1771,3110056M06Rik
A_51_P466701 Camsap1,PRO2405,9530003A05Rik
A_51_P223776 Nr1d1,A530070C09Rik
A_51_P265173 Fbxo27,FBG5,Gm161,E130008B10Rik
A_51_P327496 Apoa4,Apoa-4

A_51_P444740 Smad4,DPC4,Madh4,D18Wsu70e
A_51_P162773 C330023F11Rik
A_51_P401683 Tm6sf1,MGC25583,C630016D09Rik
A_51_P498831 Derl2,Flana,F-lana,CGI-101,Derlin-2,MGC11613
A_51_P223737 AA987161
A_51_P333923 Tspan1,9030418M05Rik
A_51_P333929 Col25a1,2700062B08Rik
A_51_P456838 Fbxl21,FBL3B,FBXL3B,D630045D17Rik
A_51_P198488 Thap7,1810004B07Rik
A_51_P417568 Olfr1445,MOR202-7
A_51_P162786 BC002236,MGC7513,8430435I17Rik
A_51_P208591 Olfr906,MOR167-2
A_51_P456857 Wdr10
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A_51_P401659 Sspn,Krag
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A_51_P472659 1200004M23Rik,2310035N23Rik,4931429L16Rik
A_51_P202498 Sara1,Sara,1600019H17Rik
A_51_P208580 Gltscr2,5330430H08Rik,9430097C02Rik
A_51_P233768 Slc13a3,NaDC3,SDCT2,NaDC-3
A_51_P456816 Nlgn3,HNL3,A230085M13Rik
A_51_P399614 Zfp99,2310046C23Rik,2810437E14Rik
A_51_P298837 Spock1,Spock,Ticn1,testican
A_51_P185141 Myo1e,myr 3,myosin-1e,2310020N23Rik,9130023P1
A_51_P442152 D8Wsu49e,Cda08,2310047C21Rik
A_51_P185175 Fkbp4,p59,59kDa,FKPB52,FKBP-52
A_51_P399664 Ctnn,Ems1,1110020L01Rik
A_51_P124934 AK031219
A_51_P466781 Ropn1,ODF6,Rppn,RHPNAP1,ropporin,1700008N21
A_51_P495232 2310016C16Rik
A_51_P185135 Gpr108,1810015L19Rik
A_51_P488673 Gnb2l1,p205,Rack1,GB-like,Gnb2-rs1
A_51_P509418 5430440P10Rik
A_51_P251737 F8a,DXBay18,DXUcsf1
A_51_P308208 LOC218805
A_51_P289066 Pcdhb10,PcdhbJ,Pcdhb5D
A_51_P333965 1500009M05Rik,1500026J14Rik,1500031D15Rik,B6
A_51_P185161 Olfr830,MOR152-1
A_51_P116813 Cyp17a1,Cyp17,p450c17
A_51_P158922 Prkaa1,C130083N04Rik
A_51_P511081 Gprk5,GRK5
A_51_P231892 D030034A15Rik
A_51_P456826 Slc19a3,ThTr2,A230084E24Rik
A_51_P109766 Vcp,p97,CDC48,3110001E05
A_51_P488718 1110060O18Rik
A_51_P399625 Cnih,0610007J15
A_51_P308227 Mpp7,Gm955,1110068J02Rik,2810038M04Rik,5430
A_51_P298802 Bfsp2,CP49
A_51_P243246 Slc7a1,Atrc1,Rec-1,Rev-1,Atrc-1,mCAT-1,4831426K
A_51_P381297 Pax8,Pax-8
A_51_P251754 2300009A05Rik
A_51_P136479 Ddx52,ROK1,2700029C06Rik

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A_51_P419478 B230358A15Rik
A_51_P233727 Ng23,G7d,2810436B06Rik
A_51_P185103 2810410M20Rik,DPY30
A_51_P298873 Syt1,G630098F17Rik
A_51_P516323 LOC243425
A_51_P495269 Lor
A_51_P417507 Gabra2,Gabra-2,C630048P16Rik
A_51_P102122 Myog,myo,MYF4
A_51_P330213 Asf1b,1700003K02Rik
A_51_P308254 Surf2,Surf-2
A_51_P509452 Tmlhe,TMLH,D430017M14Rik
A_51_P107686 Foxc1,ch,Mf1,Mf4,Fkh1,fkh-1,FREAC3,frkhda
A_51_P208525 Cr2,Cr1,C3DR,CD21,CD35,Cr-1,Cr-2
A_51_P289058 Cryge,Elo,Cryg-2,Cryg-6,DGcry-2
A_51_P208511 Cnr2,CB2,CB2-R
A_51_P141288 Lck,Hck-3,p56<lck>
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A_51_P260312 4732435N03Rik
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A_51_P360422 Krtap16-4
A_51_P123216 Zdhhc20,AI448102,5033406L14Rik,B230110O18Rik
A_51_P495259 Traf6,2310003F17Rik,C630032O20Rik
A_51_P518081 4930470G03Rik
A_51_P231820 4930565N07Rik
A_51_P243207 Zfp574,A630056B21Rik
A_51_P399697 Dbi,Acbp,ACBD1
A_51_P488799 Ythdf1,8030473O16,2210410K23Rik
A_51_P150394 Vps28,1110014J03Rik,D730005C08Rik
A_51_P260300 lkbkg,NEMO,IKK[g],1110037D23Rik
A_51_P180001 Eif2c2,Ago2,KIAA4215,mKIAA1567,mKIAA4215
A_51_P381218 Gulp1,Ced6,GULP,CED-6,3110030A04Rik,5730529
A_51_P501963 Prps1,Prps-1,2310010D17Rik
A_51_P305770 Emilin2,FOAP-10
A_51_P326242 Nt5c2l1,6030401B09Rik
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A_51_P102174 4432411E13Rik,Edd,mKIAA0896,D030042K14
A_51_P504884 Tff1,PS2,Bcei
A_51_P381230 Zhx2,mKIAA0854
A_51_P482365 5730507A09Rik
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A_51_P271529 BB120497
A_51_P407660 9630033F20Rik
A_51_P117618 Ethe1,Hsco,MGC102424,0610025L15Rik
A_51_P117612 Nfrkb,A530090G11Rik

A_51_P316871 SrpX,drs,drs-1,mDRS-1,mDRS-2
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A_51_P313096 Hs6st3,6OST3
A_51_P123297 Ppp1r7,SDS22,2310014J01Rik
A_51_P313093 2210420N10Rik
A_51_P354757 2310047N01Rik
A_51_P375453 Wnt9a,Wnt14
A_51_P518001 Creb3l3,CREB-H,D10Bur1e
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A_51_P129787 Wdr45l,D16Bwg0193e,0610008N23Rik
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A_51_P354744 Cox15,MGC18952,2900026G05Rik
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A_51_P518014 Slc36a3,PAT3,TRAMD2,tramdorin2
A_51_P407638 2900034E22Rik
A_51_P116838 Dct,DT,slt,TRP-2,Typr2,slaty,Typr-2
A_51_P216702 A130022J15Rik
A_51_P307589 Tdrd9
A_51_P195506 Csf1,op,Csfm,CSF-1,M-CSF
A_51_P180061 Als2,Als2cr6,MGC27807,mKIAA1563,3222402C23R
A_51_P482322 V1rh10
A_51_P117627 Ache,mE1a,mE1b,mE1c,mE1d,mE1e,mE1d',mE1c-lc
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A_51_P354766 Eps15-rs,Eps15R,9830147J04Rik
A_51_P381247 Pdzk11,1810012H22Rik,2310079D11Rik,2700099C
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A_51_P195557 4930429B21Rik
A_51_P353162 Svs5,Svp5
A_51_P260388 Prlpb,PLP-B
A_51_P469160 Rdh11,Mdt1,Psdr1,SCALD,Arsdr1,CGI-82,HCBP12,l
A_51_P195534 Ankrd22,D19Ert675e,5430429D21Rik
A_51_P117666 1810032O08Rik
A_51_P223475 Chuk,IKK1,Chuk1,IKK-1,IKK[a],IKKalpha,IKK-alpha
A_51_P504815 Stfa3,Stf3
A_51_P375406 Lt1
A_51_P195573 Dnmt1,Dnmt,Met1,Cxxc9,MTase,Met-1,Dnmt1o
A_51_P424079 Eif2b4,Eif2b
A_51_P466270 Heph,Cpl,sla,mKIAA0698,C130006F04Rik
A_51_P202320 Pik4cb,ESTM41
A_51_P129767 Arpc3,21kDa,p21-Ar,p21Arc,1110006A04Rik
A_51_P265219 Ppm1k,MGC115965,2900063A19Rik,A930026L03Ri
A_51_P117664 4930541M15Rik,mKIAA1078,1600013L13Rik
A_51_P401761 Cdh10,A830016G23Rik,C030003B10Rik,C030011H
A_51_P487228 BC028440,MGC41256
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A_51_P255952 Ucn
A_51_P390606 NAP057053-1

A_51_P141110 Dock7,mKIAA1771,3110056M06Rik
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A_51_P401717 D10Bwg1364e,MGC11699,MGC90979,1700013O15
A_51_P466253 D5Wsu46e,MGC28888,MGC30590
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A_51_P202305 Adam30,svph4,4933424D07Rik
A_51_P424054 Btbd2,2610037C03Rik,4930512K17Rik
A_51_P463452 Acsl1,Acs,Acas,FACS,Acas1,Facl2
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A_51_P504863 Pctk3
A_51_P141104 Med18,2810046C01Rik
A_51_P466229 Pdgfrl,1110039P19Rik
A_51_P375498 Iars,ILRS,2510016L12Rik,E430001P04Rik
A_51_P466221 Amhr2,MISIIR,Misrii
A_51_P264781 5730553K21
A_51_P390628 BC024814,MGC38788
A_51_P141136 Tnrc6a,Tnrc6,CAGH26,MGC11932,2010321I05Rik,3
A_51_P211334 B3galt6,GalTII,MGC91010
A_51_P504672 Mef2d,MGC31718
A_51_P390676 Hnrpll,2510028H02Rik,2810036L13Rik
A_51_P451335 Pla2g1br
A_51_P141164 Ddx50,GU2,RH-II,4933429B04Rik
A_51_P162023 V1rg4
A_51_P354792 Ltc4s
A_51_P141123 Cox5b
A_51_P216758 4930511A21Rik,G4-1,G5pr,5730412A08Rik
A_51_P177897 Ube2i,UBC9,Ubce9,Mmubc9,Ubce2i,5830467E05Rik
A_51_P488519 Isoc1,2610034N03Rik
A_51_P488510 2900057D21Rik,DIP13,7330406P05Rik
A_51_P504879 Olfr1183,MOR230-6
A_51_P495581 Tlr1
A_51_P173957 Herc1,MGC7618,B230218H07,2810449H11Rik,D13(
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A_51_P495540 Pea15,Mat1,PEA-15,Pkcs15
A_51_P158822 Mtdh,3D3,Lyric,3D3/Lyric,D8Bwg1112e,2610103J23
A_51_P162083 6.33E+19
A_51_P488538 2310034C09Rik
A_51_P158876 2410015N17Rik
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A_51_P289107 Hrh3
A_51_P487278 D17Wsu94e,KLIP1,C6orf109
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A_51_P495560 Tgm3
A_51_P270478 Pin4,EPVH,Par14,2410002I22Rik
A_51_P441999 Zfp59,Mfg2,Mfg-2
A_51_P423157 R3hdm

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A_51_P466288 A930004K21Rik,5830442F04,1500032A09Rik
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A_51_P521176 2400009B11Rik
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A_51_P521171 Hif1an,FIH1,2310046M24Rik,A830014H24Rik
A_51_P110791 lghmbp2,AEP,nmd,sma,Catf1,Smbp2,Smbp-2,Smub
A_51_P494929 Diablo,Smac,0610041G12Rik
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A_51_P488273 Clasp1,mCLASP1,mKIAA0622,1700030C23Rik,573C
A_51_P223489 Rbbp4,mRbAp48
A_51_P492807 Mospd4,2010013H21Rik
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A_51_P293926 Senp3,Smt3ip,Smt3ip1
A_51_P177819 Zfp313,Zfp228,Znf228,1110008J21Rik
A_51_P139320 Pcbd1,Dcoh,Pcbd
A_51_P415247 4930524J08Rik
A_51_P251687 Serpinb9g,NK21B,1600002F03Rik
A_51_P308362 Ugt1a9,MGC36247
A_51_P243304 Galk1,Gk,Glk,GALK,Glk1
A_51_P232187 E030013G06Rik
A_51_P494342 Bex4
A_51_P516268 Kctd4,AU017169,2210017A09Rik
A_51_P511259 Osbp17,4933437E18Rik
A_51_P144024 Trpa1,Anktm1
A_51_P360508 2310076O21Rik
A_51_P447189 LOC385154
A_51_P345274 Onecut2,Oc2,OC-2
A_51_P289196 Epm2a
A_51_P139349 1700012P22Rik
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A_51_P326346 1110013G13Rik,MGC6539,Sid6306
A_51_P345248 Sfxn2,F630107H02Rik
A_51_P150951 Zfp248,MGC100019,2810037F07Rik,E130106N01Ri
A_51_P494992 Runx3,AML2,Cbfa3,Pebp2a3
A_51_P102652 1810034K20Rik,Mdp1
A_51_P144052 Aim1
A_51_P300960 BC019943,MGC28346
A_51_P440210 Prkg1,CGKI,Prkg1b,Prkgr1b
A_51_P360518 Olfr1009,MOR175-3
A_51_P326357 Olfr71,mOR17,MOR262-4
A_51_P469688 Bk
A_51_P150905 Kelch1,2610318I18Rik
A_51_P307017 B230324K02Rik
A_51_P165237 Snx16,4930522N22Rik
A_51_P231184 Anpep,Apn,Cd13,Lap1,p150,Lap-1
A_51_P516297 Cetn2,Calt,caltractin,1110034A02Rik
A_51_P150979 Olfr957,MOR171-12
A_51_P139370 Olfr1110,MOR172-4

A_51_P150964 Pdgfrb,Pdgfr,CD140b
A_51_P151505 Zfp318,TZF,2610034E08Rik,D530032D06Rik
A_51_P180108 Arpc5l,ARC16-2,2010015J01Rik
A_51_P102631 Trappc2,Sedl,TRS20,MIP-2A,1110066L09Rik,18100
A_51_P226882 Sh2d2a,Lad,Ribp,TSAd
A_51_P255899 Tgfbr3,TBR11,1110036H20Rik
A_51_P180140 Hist1h2ba
A_51_P354642 1300013B24Rik,MGC77955,ero1-beta,1700065B09F
A_51_P521106 Ttn,mdm,shru,1100001C23Rik,2310036G12Rik,231C
A_51_P440242 Pogk,BASS2,mKIAA1513,9130401E23Rik
A_51_P360586 Hoxa6,Hox-1.2
A_51_P150912 Aurka,IAK,Ark1,Ayk1,Stk6,AIRK1,Aurora-A
A_51_P144090 Slc16a3,Mct3,Mct4
A_51_P410892 D10Ert322e,Mrpl42,2700009F22Rik,2900055D03R
A_51_P265327 Mpp6,P55t,Pals2
A_51_P180159 Igh-VJ558,MGC6727
A_51_P226866 Slc13a2,Nadc1,mNaDC-1
A_51_P418519 Erg,D030036I24Rik
A_51_P354652 Slc25a3,4933433D23Rik
A_51_P117369 Phf8,mKIAA1111,9830141C09Rik
A_51_P271439 Gm944,KIAA4238,mKIAA4238
A_51_P504992 Ywhaq,14-3-3theta,2700028P07Rik
A_51_P504991 Sfn10,FLJ00257,mFLJ00257
A_51_P190111 Mcm5,Cdc46,Mcnd5,mCD46,mCDC46,P1-CDC46
A_51_P290387 Sval1,SLP-C,9130404C18Rik
A_51_P466162 C1qbp,P32,HABP1,gC1qBP,D11Wsu182e
A_51_P298107 Vit,1700052E02Rik,1700110E08Rik,2810429K11Rik
A_51_P255805 6330505N24Rik,Gm126
A_51_P290399 Al661453
A_51_P162144 p,D7Nic1,D7H15S12,D7Icr28RN
A_51_P165293 Ckmt2,ScCKmit,2300008A19Rik
A_51_P469661 Stk38,Ndr1,5830476G13Rik,9530097A09Rik
A_51_P354609 Lrrc3,C21orf102
A_51_P375987 Fign,fi,fidget
A_51_P226853 Gga1,4930406E12Rik
A_51_P226831 1110008K04Rik
A_51_P202652 Rnf10,RIE2,mKIAA0262
A_51_P511236 Pik3r1,PI3K,p50alpha,p55alpha,p85alpha,C530050K
A_51_P430718 Slco6d1,4921511I05Rik
A_51_P223569 Ddx4,Mvh,VASA
A_51_P307082 Hey2,CHF1,Hrt2,Herp1,hesr2
A_51_P114797 Cbln2,A730004O05,6330593N19Rik
A_51_P504902 2900045N06Rik,MGC90828,mKIAA1757,C330007C;
A_51_P255832 Omg
A_51_P418526 Sfxn1,f,2810002O05Rik,A930015P12Rik
A_51_P202670 Al851682
A_51_P390586 5730494N06Rik
A_51_P511250 4732473B16Rik
A_51_P326393 Gapvd1,KIAA1521,mKIAA1521,2010005B09Rik,443;
A_51_P223575 4930451A13Rik
A_51_P202633 Ebi3,IL-27
A_51_P418560 Lnx2,9630046H24

A_51_P419685 4921509C19Rik,Gm1005
A_51_P265374 Vnn3
A_51_P192930 Ifna6,Ifa6,Ifa8,Ifna8
A_51_P162176 Trappc3,Bet3,1110058K12Rik
A_51_P391934 Cpb1
A_51_P407780 Ly6h
A_51_P192924 4931440L10Rik
A_51_P469633 BC068171
A_51_P482968 C030005H24Rik
A_51_P401069 1600016N20Rik
A_51_P487308 Pstk,Gm1099,5430423O14Rik,5730458D16Rik
A_51_P255817 Scarb1,CD36,Cla1,SRBI,Srb1,Cla-1,SR-B1,SR-BI,Cc
A_51_P273750 Gnrh
A_51_P401024 Lrrc34,1700007J06Rik
A_51_P117385 Slc26a7,MGC30955
A_51_P110651 Zfp13,Krox-8,Zfp-13,4933429B21
A_51_P354683 4930553F24Rik,Slb,wim,lft172
A_51_P354681 9130411I17Rik,GntIVh
A_51_P162116 BC038925,MGC49416
A_51_P430754 1700003H04Rik,4930538K10Rik,4933400D22Rik
A_51_P211221 1110005A23Rik,Cip29
A_51_P202623 1700007D05Rik
A_51_P223524 C030046E11Rik
A_51_P479408 Hyal1,Hya1,Hyal-1
A_51_P162124 Gtf2e2,34kDa,C330006J08Rik
A_51_P466148 Bckdha
A_51_P410804 Olfr482,MOR204-14
A_51_P430766 Il10,CSIF,Il-10
A_51_P192979 BC030335,MGC40975
A_51_P375926 Perq1,GIGYF1,KIAA4110,mKIAA4110
A_51_P410830 Upf3a
A_51_P399472 1700067C01Rik,A230107C01Rik
A_51_P429633 1700011H22Rik
A_51_P390531 Epc2,5830499L14,D2Ertd694e
A_51_P495485 2610319K07Rik
A_51_P223504 Fthl17
A_51_P390538 Mpeg1,MPS1,Mpg-1
A_51_P192964 4933425B16Rik
A_51_P321033 5830445C04Rik,N6amt1
A_51_P132944 Cntnap1,NCP1,p190,Caspr,Nrxn4,paranodin
A_51_P268843 Rasip1,Rain,2610025P08Rik
A_51_P375969 Ces3,TGH
A_51_P290352 TC1032971
A_51_P162188 6720456H20Rik,5930435P15
A_51_P216496 Tfpi2,PP5/TFPI-2
A_51_P410823 Sdha,FP,SDH2,SDHF,4921513A11,2310034D06Rik
A_51_P429663 Gucy2f,A930002I06
A_51_P289647 E330016A19Rik
A_51_P193291 lqcf1,1700055J15Rik
A_51_P192955 BG921888
A_51_P377035 Plcg1,Cded,Plc-1,Plcg-1,Plc-gamma1
A_51_P321046 D930038M13Rik,TARSH,Abi3bp,5033411B22Rik

A_51_P216440 Tcf4,ME2,TFE,E2-2,E2.2,ITF2,SEF2,Hnf-4,ITF-2,SE
A_51_P487360 Hpcal1,Nvp3,NVP-3,Vnsl3,Vsnl3,VILIP3
A_51_P391980 4921526G09Rik,KIAA4135,mKIAA4135
A_51_P202699 Myst2,Hbo1,Hboa,MGC56758
A_51_P488014 Tmem17,MGC40971
A_51_P308029 2010107G23Rik
A_51_P321086 X83328,ESTM12
A_51_P459647 Epn1,lbp1
A_51_P451279 1810018F18Rik,1810031L05Rik
A_51_P305843 Chordc1,Chp-1,1110001O09Rik
A_51_P516125 Hist1h1c,H1c,H1.2,H1f2,His1a,H1var1,MGC107646,
A_51_P401096 Foxp3,sf,JM2,scurfin
A_51_P495462 6330404F12Rik
A_51_P391996 Pgd
A_51_P472888 E130303B06Rik
A_51_P289679 Npm2
A_51_P442736 Olfr1094,MOR179-7
A_51_P185332 1700020I14Rik,AI451541,AI585852,1190006L01Rik,
A_51_P442765 2310061N02Rik
A_51_P501382 Klrc3,Nkg2e
A_51_P509609 Tspan4,NAG-2,Tm4sf7,Tspan-4,MGC102386,D1300
A_51_P488024 Glis
A_51_P463003 Tslp
A_51_P459650 Eya3
A_51_P466180 Gm2a
A_51_P104757 Hcfc1,HCF1,HCF-1
A_51_P125629 Rgs12,E130309H11,1200016K18Rik,4632412M04Ri
A_51_P223583 Rgs3,C2pa,RGS3S,PDZ-RGS3,C2PA-RGS3,49305C
A_51_P511285 Kcnj9,Girk3,Kir3.3,mbGIRK3,1700085N21Rik
A_51_P330452 Olfr1414,MOR103-2
A_51_P150845 Tcerg1l,5730476P14Rik
A_51_P360632 Srst
A_51_P509669 Uap1l1,5730445F03Rik
A_51_P381086 B930041F14Rik,MNCb-3966
A_51_P482197 4930438D12Rik,2610029O13Rik
A_51_P409429 Aars,MGC37368
A_51_P497484 AI118078,9630029F15
A_51_P509679 Igh-VJ558,MGC6727
A_51_P455997 Gtl2,Meg3,D12Bwg1266e,2900016C05Rik,3110050C
A_51_P463018 Nrxa1,mKIAA0578,1700062G21Rik,9330127H16Rik,
A_51_P463034 4930432K21Rik
A_51_P307721 Cbln1
A_51_P488092 Pde6d
A_51_P454519 Usp7,Hausp,2210010O09Rik
A_51_P472857 Olfr971,MOR171-13
A_51_P409452 Cldn11,Osp,Otm,Claudin11,Claudin-11
A_51_P315890 Kcnk6,Toss,Twik2,D7Ertd764e
A_51_P363588 Polk,Dinb1
A_51_P455946 Rac3,Rac1B
A_51_P144160 LOC239447
A_51_P440107 Manbal,1810024K12Rik
A_51_P330428 Eif4ebp1,PHAS-I

A_51_P439970 Ggh,gamma-GH
A_51_P144134 Slc22a16
A_51_P381029 Lrrrip1,Fliiap1
A_51_P326043 Hydin,hy3,hy-3,4932703P14,A830061H17,1700034N
A_51_P516198 4930468A15Rik
A_51_P272323 Mlph,ln,l1Rk3,Slac-2a,D1Wsu84e,l(1)-3Rk,2210418F
A_51_P472879 Masp1,CCPII,Craf,Masp1/3
A_51_P195783 Neil3,MGC27861,MGC36916
A_51_P360678 Als2cl,79H19D,79H19E,mRn.49018,D930044G19Rik
A_51_P469789 Agxt,Agxt1
A_51_P268884 1810073N04Rik
A_51_P144180 Ifnb1,lfb,IFNB
A_51_P123405 Bub1,Bub1a,D2Xrf87
A_51_P289697 Nek4
A_51_P463060 Tmem40,9030407H20Rik
A_51_P472829 2810003C17Rik,lba2,MGC30545
A_51_P268896 Grik1,Glur5,Glur-5,MGC25101,A830007B11Rik
A_51_P200249 Olfr945,MOR171-20
A_51_P142703 Il19
A_51_P518246 Fibp,2010004G08Rik,2010005N21Rik,3010027N18F
A_51_P381015 Evx1,Evx-1
A_51_P431316 6130401J04Rik
A_51_P360658 Olfr120,MOR263-3
A_51_P271725 Fundc1,1500005J14Rik,1810033P05Rik
A_51_P123422 1110018H23Rik
A_51_P455906 Pold4,p12,POLDS,2410012M21Rik
A_51_P117439 Dnajb6,Mrj,mDj4,MGC102124
A_51_P117411 5730427N09Rik,Yr29,LNR42,Nsa2p
A_51_P381060 Pilrb,Fdact,FDFACT,Pilrb1
A_51_P117477 Slc27a1,Fatp,FATP1
A_51_P102731 1700105P06Rik
A_51_P455932 F2rl1,Par2,PAR-2,Gpcr11
A_51_P354572 Rab35,RAY,H-ray,RAB1C,9530019H02Rik
A_51_P326030 BC011426,MGC18740
A_51_P379597 Ndufs1,MGC7850,MGC19199,5830412M15Rik,9930
A_51_P482128 Krt1-15,K15
A_51_P454542 Insm2,Mlt1
A_51_P472867 Oas3,Oasl10
A_51_P315861 Xkh,Xk,XRG1,1810038K19Rik
A_51_P180213 XM_138403
A_51_P313246 Olfr509,MOR267-14
A_51_P407406 Rab8a,Mel
A_51_P129557 Slc35a5,D16Ert450e,1010001J06Rik,D730043G07
A_51_P315820 Prssl1
A_51_P265444 Slc28a2,Cnt2,B430217P18,2010208B10Rik
A_51_P123494 D630041K24Rik,mKIAA0998,1700048H13Rik,23100
A_51_P326015 Axud1,URAX1,taip-3,4931429D10Rik
A_51_P440187 Pabpc5,C820015E17
A_51_P265475 Gmfb,D14Ert4630e,3110001H22Rik,3110001O16Rik
A_51_P469724 V1rb8
A_51_P298259 2310042E22Rik
A_51_P162272 Wnt5a,Wnt-5a,8030457G12Rik

A_51_P273609 Itpka,MGC28924
A_51_P195775 Mmp16,Mt3mmp,MT3-MMP
A_51_P254302 Rnf157,mKIAA1917,A130073L17Rik
A_51_P265465 Abhd3,LABH3
A_51_P469777 Olfr1324,MOR128-2
A_51_P289889 Npnt,Nctn,POEM,1110009H02Rik
A_51_P142738 4930435E12Rik
A_51_P424641 Sirt4,4930596O17Rik
A_51_P390480 Hyal3
A_51_P102782 Bckdhd
A_51_P273613 4930414N06Rik
A_51_P202512 Fndc3b,Fad104,KIAA4164,mKIAA4164,1600019O04
A_51_P254354 V1rc5
A_51_P162253 Vdac2,Vdac6
A_51_P195756 Lrp4,D230026E03,6430526J12Rik
A_51_P117494 B4galt3,ESTM6,ESTM26,9530061M23Rik
A_51_P192824 Olfr1311,MOR245-21
A_51_P333891 Olfr1393,MOR256-24
A_51_P129546 Sstr4,sst4,Smstr4
A_51_P216157 1810011K17Rik
A_51_P192860 Hint1,Hint,lpk1,PKCI-1,PRKCNH1
A_51_P487004 Dmrtc2,Dmrt7,4933432E21Rik
A_51_P216179 Erbb2,Neu,HER2,HER-2,c-neu,Erbb-2,c-erbB2,mKIA
A_51_P298266 Lix1,5730466L18Rik
A_51_P129502 Slc7a11,xCT
A_51_P129507 4930448N21Rik
A_51_P326091 BC023121
A_51_P162238 Slc35a2,UGT,Had1,Sfc8,Had-1,Ugalt
A_51_P333885 Hnrph2,H',Ftp3,Ftp-3,HNRNP,DXHXS1271E
A_51_P401176 Pdzk6,mKIAA1284,9230116I04Rik,9430087H23Rik
A_51_P326086 Polr2j,Polr2i,Rpb11a,Rpo2-4,14.5kDa
A_51_P192800 Grn,epithelin
A_51_P487027 Kcnk2,TREK-1,A430027H14Rik
A_51_P333831 2010004M13Rik
A_51_P192847 D11Lgp1e
A_51_P333839 Pdgfc,1110064L01Rik
A_51_P132849 Camk2g,Camkg,5930429P18Rik
A_51_P143951 Astn1,Astn,GC14,mKIAA0289
A_51_P273657 BC025923
A_51_P192817 Gtf2f2,1110031C13Rik
A_51_P141315 B230339M05Rik,mKIAA1219,9330195P16
A_51_P487010 Pou3f2,Brn2,Otf7,Brn-2
A_51_P216165 Olfr560,MOR14-1
A_51_P202501 1110001M24Rik
A_51_P126540 Stag2,SA-2,SAP2,9230105L23Rik,B230112I07Rik
A_51_P495780 S3-12
A_51_P141308 Ga17,2210415I11Rik
A_51_P390417 Olfr1402,MOR217-1
A_51_P265489 Slc5a4a,SGLT3-a
A_51_P375693 2810439K08Rik
A_51_P487043 BU504102
A_51_P375698 2610024E20Rik,MGC37079

A_51_P487048 Psx1
A_51_P273679 Dmgdh,MGC107623,1200014D15Rik
A_51_P488739 Gpr109b,HM74,Pumag,PUMA-G,mHM74b
A_51_P336293 C330008L01Rik
A_51_P289742 Slc27a5,FATP5,FACVL3,VLC SH2,Vlacsr,VLCS-H2
A_51_P216108 Rps6kl1,MGC38756,A830084F09Rik
A_51_P429743 Ceacam13,1600012K03Rik,1600025J19Rik
A_51_P409583 3110045G13Rik,Megf12
A_51_P162289 Amfr
A_51_P429770 Fcer1a,FcERI,Fce1a,Fcr-5
A_51_P360918 Ehd3,Ehd2
A_51_P136143 Aloxe3,e-LOX-3
A_51_P509518 Ralgds,Gnds,Rgds,mKIAA1308
A_51_P375680 Pcsk5,PC6,SPC6
A_51_P126563 Otc,Sf,spf
A_51_P139184 Fank1,1700007B22Rik
A_51_P289751 ICRFP703B1614Q5.6,BCA3,C11orf17
A_51_P247034 Fbxl15,Fbxo37,0710008C12Rik
A_51_P354706 Lefty1,Leftb,Stra3,Tgfb4,lefty,lefty-1
A_51_P232778 0610042I15Rik,Ykt6,1810013M05Rik
A_51_P399985 Myo9b
A_51_P247030 LOC328644
A_51_P401184 Rarres1,5430417P09Rik
A_51_P265495 Ly6a,TAP,Sca-1,Ly-6A.2,Ly-6A/E,Ly-6E.1
A_51_P333859 A330019N05Rik
A_51_P488768 B430110G05Rik,6720482A19
A_51_P144222 Otop2,4732464P15
A_51_P432538 H2-T10,H-2T10
A_51_P455880 Psd,Efa6,Psdl,AI426354,A930015K15,1110007H17F
A_51_P463109 Cpsf6,CFIM,CFIM68,HPBR11-4,HPBR11-7,4733401N1
A_51_P455886 Nup153,B130015D15Rik
A_51_P107722 2610303G11Rik
A_51_P516035 Olfr57,IF12,MOR139-3
A_51_P509530 Cybrd1,Dcytb,2210407P13Rik
A_51_P381397 3110030K17Rik
A_51_P141390 Anapc1,Apc1,Mcpr,tsg24,2610021O03Rik
A_51_P333869 Ndn12,HCA4,Mageg1,mage-g1,5730494G16Rik
A_51_P150195 Mtmr3,ZFYVE10,MGC78036,FYVE-DSP1,mKIAA03
A_51_P401193 Gale,2310002A12Rik
A_51_P516006 Ntrk2,Tkrb,tkrB
A_51_P488704 Asb16
A_51_P141772 Uhrf2,Nirf,2310065A22Rik,D130071B19Rik
A_51_P333850 Senp7,mKIAA1707,2410152H17Rik,2810413I22Rik,
A_51_P495700 1810010N17Rik,1110002E08Rik
A_51_P345011 Olfr110,MOR249-2
A_51_P144206 Rpl18a,2510019J09Rik
A_51_P308111 AA718294
A_51_P381387 Pomt2,A830009D15Rik
A_51_P423354 3110023G01Rik,4933439B08Rik
A_51_P463120 4933428I03Rik
A_51_P399924 Txln,MGC77972,MGC86145,2600010N21Rik
A_51_P330749 Syt2,syt II,KIAA4194,mKIAA4194

A_51_P516016 Sprr2g
A_51_P495730 1700049L16Rik
A_51_P251465 Exosc1,2610035C18Rik,2610104C07Rik,2610312FC
A_51_P230103 Birc5,Api4,TIAP,AAC-11,survivin40
A_51_P399974 Olfr178,MOR184-6
A_51_P345073 2310020A21Rik
A_51_P123320 Pank1
A_51_P330736 AK049252
A_51_P144264 Klf2,Lklf
A_51_P231308 Mfng
A_51_P440443 Exosc5,D7Wsu180e
A_51_P440440 Sox15
A_51_P516078 C530044N13Rik,MGC27760
A_51_P123314 Olfr74,mOR-EV,MOR174-4
A_51_P509573 Ccl4,Act-2,Mip1b,Scya4,MIP-1B,AT744.1
A_51_P509579 2610014F08Rik,1700048E19Rik
A_51_P308148 V1rg7
A_51_P455897 6720460F02Rik,2610008F03Rik
A_51_P516057 Taf1a,mTAFI48
A_51_P463159 Casp14,MICE,mini-ICE
A_51_P195483 3010021M21Rik,MGC19370
A_51_P230122 Olfr818,MOR110-2
A_51_P516085 Dntt,Tdt
A_51_P193774 2810012H18Rik
A_51_P151722 BC053994
A_51_P439824 Rgs19ip1,GIPC,TIP-2,TaxIP2,Semcap1,Glut1CIP
A_51_P455866 Elf5
A_51_P455861 2310002B14Rik
A_51_P488780 Krt25d,4733401L19Rik
A_51_P139165 Rsrc1,SRrp53,MGC103357,1200013F24Rik
A_51_P440469 NM_172680
A_51_P488789 Crk7,Pksc,CrkRS,1810022J16Rik
A_51_P440460 Hip1r,mKIAA0655
A_51_P439876 9430080K19Rik
A_51_P151732 Pkp1
A_51_P123373 Fshr
A_51_P260889 Cd3g,T3g,Ctg3,Ctg-3
A_51_P144270 5430433J05Rik
A_51_P139176 C230030N03Rik
A_51_P345046 Metap2,p67,Amp2,Mnpep,MGC102452
A_51_P271625 4932412H11Rik
A_51_P151775 AI452372,A230016E22
A_51_P230142 A930018P22Rik
A_51_P492625 Ppp2r3a,PR59,Ppp2r3
A_51_P463177 9230110F15Rik
A_51_P439803 NM_013798
A_51_P260850 Cntnap2,Caspr2,mKIAA0868,5430425M22Rik
A_51_P455807 Ehd4,Past2,2210022F10Rik
A_51_P289796 Arl7,LAK,A630084M22Rik
A_51_P102459 Jph3,JP3,JP-3
A_51_P326140 Figla
A_51_P439857 9930116P15Rik

A_51_P251487 4921504I05Rik
A_51_P381329 Olfr59,IH3,MOR133-3P
A_51_P284823 Rpo1-2,RPA2,128kDa,RPA116,RPA135,D630020H1
A_51_P151756 4732497O03Rik,HCA66,MGC25509
A_51_P469494 Zfp62
A_51_P180362 Scarb2,LGP85,Cd36I2,LIMP-2,MLGP85,9330185J12
A_51_P117165 6330409D20Rik
A_51_P117162 Cbx3,M32,HP1g
A_51_P469480 Yes1,Yes
A_51_P123345 Arf2
A_51_P354461 2700008N14Rik
A_51_P519950 Rsbn1I,8430412F05Rik
A_51_P136188 Slc6a14,ATB0plus,CATB0plus,1110007A17Rik,9030
A_51_P307220 C730048E16Rik,MGC25673,EST475269,EST10681I
A_51_P381321 Ddx17,Gm926,MGC79147,2610007K22Rik,A430025
A_51_P195439 Kbtbd4,2510026C23Rik
A_51_P418737 3200001K10Rik,6430512A10Rik
A_51_P265545 1110007C24Rik,C61,9230118A01Rik
A_51_P469476 AK036529
A_51_P313729 Olfr1330,MOR259-8
A_51_P165060 Slc22a5,jvs,Lstpl,Octn2
A_51_P455831 Dlx4,Dlx7,Dlx-4
A_51_P381373 Wwp1,AIP5,SDRP1,Tiul1,8030445B08Rik
A_51_P188085 Rabgap1,Gapcena,KIAA4104,MGC30493,mKIAA41C
A_51_P305027 Fnbp1,FBP1,Fbp17,1110057E06Rik,2210010H06Rik
A_51_P216672 Zbtb33,Kaiso,Znf-kaiso,E130014G12Rik
A_51_P336161 Man2b1,LAMAN
A_51_P230195 A730008H23
A_51_P325904 Inhbb
A_51_P381360 Grim19,CDA016,CGI-39,GRIM-19,2700054G14Rik
A_51_P440487 Fbxo8,Fbx8
A_51_P431996 Zfp367,ZFF29a,ZFF29b,8030486J21Rik
A_51_P117115 Olfr53,IE12,MOR253-5
A_51_P165046 Rpl8
A_51_P402193 Map3k1,Mekk,MEKK1,MAPKKK1
A_51_P431985 Tyrp1,b,isa,Tyrrp,TRP-1,brown
A_51_P195408 A930029K19Rik,A730099F22
A_51_P418725 Plekhf1,APPD,PHAFIN1,ZFYVE15,1810013P09Rik
A_51_P123385 Olfr658,MOR34-5
A_51_P469443 8030474K03Rik,Gm1142
A_51_P469449 Ung,UNG1,UNG2
A_51_P431999 3110043A19Rik
A_51_P469401 Tnfrsf18,AITR,Gitr
A_51_P265571 Adm,AM
A_51_P102487 Sorcs1,Sorcs
A_51_P162373 Atp5b
A_51_P466378 Itgal,Cd11a,LFA-1,Ly-15,Ly-21
A_51_P466371 Pitpna,vb,Pitpn,vibrator
A_51_P449185 V1rc27
A_51_P162340 6530402F18Rik,KIAA1857,mKIAA1857
A_51_P354433 Ppie,Cyp33,2010010D16Rik
A_51_P290191 Mst1,Hgfl,D3F15S2h,DNF15S2h,D9H3F15S2

A_51_P117109 Ilvbl,5830463I21
A_51_P401263 Eme1,MGC106543,6820428D13
A_51_P418704 V1rc13
A_51_P439887 Olfr823,MOR210-4
A_51_P162307 Phf3,mKIAA0244,2310061N19Rik
A_51_P487108 Rangap1,Fug1,mKIAA1835
A_51_P273513 Zhx3,Tix1,mKIAA0395,1810059C13Rik,4932418O04
A_51_P418749 Paqr3,6330415A20Rik
A_51_P162357 Ppp1r1c,4930565M23Rik,4930579P15Rik
A_51_P469411 Traf3,amn,LAP1,CAP-1,CRAF1,T-BAM,CD40bp
A_51_P354419 Olfr202,MOR182-1
A_51_P162326 LOC381508
A_51_P273538 1700013H19Rik
A_51_P424199 Igh-VJ558,MGC6727
A_51_P487162 Dus4l,Pp35,2310069P03Rik,2700089B10Rik
A_51_P216679 Anxa10
A_51_P430563 Mtpn,V1,Gcdp,5033418D15Rik
A_51_P290139 Dlst,DLTS,1600017E01Rik,4632413C10Rik,4930529
A_51_P519984 Stk38l,Ndr2,Ndr54,B230328I19,4930473A22Rik
A_51_P326191 Serpina3g,2A2,Spi2A,Spi2-1,Spi2/eb.1
A_51_P265532 Nup205,mKIAA0225,3830404O05Rik
A_51_P487137 A_51_P487137
A_51_P207849 Bola1,1810037G04Rik
A_51_P519992 Lgr7,Gm1018
A_51_P452153 2010001M09Rik,MGC73549
A_51_P487105 C77604,G10,EDG2,EDG-2
A_51_P117195 C030010B13Rik,1700007P14Rik
A_51_P487175 Sah,Sa
A_51_P247103 Olfr1208,MOR225-4
A_51_P472120 Tmprss13,Tpmrss13,MGC103261
A_51_P202801 Abcb9,TAPL,mKIAA1520
A_51_P367263 BC020188,MGC28923
A_51_P216652 Osr1,Osr,Odd1
A_51_P158598 Scrn2,SES2,D11Moh48,MGC29406
A_51_P273556 2310007D09Rik,MGC92947
A_51_P162313 Tssk5,1700091F14Rik
A_51_P216605 Hbp1,1700058O05Rik,C330012F01Rik
A_51_P424191 Coro6
A_51_P417998 Sytl4,Gph,Slp4
A_51_P139280 Crybb2,Aey2,Phil,Cryb-2
A_51_P298790 Neurog1,AKA,ngn1,Math4C,Neurod3,neurogenin
A_51_P472159 BC021395,KIAA4077,MGC29396,MGC36325,mKIAA/4077
A_51_P509098 Asah1,AC,Asah,2310081N20Rik
A_51_P207801 B430218L07Rik,1190007F10Rik
A_51_P308681 6230416A05Rik
A_51_P289464 1110033L15Rik
A_51_P457744 Ncor1,N-CoR,RIP13,Rxrip13,mKIAA1047,A230020K
A_51_P289429 C230086A09Rik
A_51_P488230 AK036733
A_51_P289423 NAP057047-1
A_51_P409694 5430413I02Rik,Dda3,MGC7063
A_51_P457734 Ednra,ETa,ET-AR,Gpcr10

A_51_P495641 Stmn1,19K,Lag,SMN,p18,p19,pig,PP17,PP18,PR22,
A_51_P488243 Erbb3,Erbb-3,Erbb3r
A_51_P338935 Prkcq,Pkcq,PKC-0,PKC-theta,A130035A12Rik
A_51_P430585 D11ErtD18e,FLJ00234,mFLJ00234,1110002C08Rik
A_51_P273596 Sdh1,Sord,Sdh-1,Sodh-1,MGC31355
A_51_P202857 Cdca7,JPO1,2310021G01Rik
A_51_P516753 Gimap3,Ian4,Gimap5,2010110D23Rik
A_51_P512561 Zfp68,KRAZ2,mszf22,mszf49
A_51_P296878 C130086A10
A_51_P330647 Olfr1273,MOR227-4
A_51_P488211 Atp10d,ATPVD,D5Buc24e,MGC37731,9830145H18f
A_51_P338961 4732486I23Rik
A_51_P289407 6030465E24Rik,A330015I11,C530005A01Rik
A_51_P321286 D19Bwg1357e,1110069H02Rik
A_51_P345316 6230425F05Rik
A_51_P202862 Olfr398,MOR157-1
A_51_P321290 1810033M07Rik,1810047B09Rik
A_51_P353882 Zfp580,1500015O20Rik
A_51_P338998 Prim2
A_51_P123676 Synpo,9330140I15Rik
A_51_P360040 4930513F16Rik,MSRG-11,MGC107213,1700065F16
A_51_P296815 Gpr68
A_51_P144330 4930431F10Rik
A_51_P417933 Cst6,ichq,1110017E11Rik
A_51_P158538 Zfp36,Ttp,Gos24,TISII,Nup475,TIS11D,Zfp-36
A_51_P110863 Olfr926,MOR171-8
A_51_P330677 6030458H05
A_51_P516705 Ern1,Ire1a,Ire1p,Ire1alpha,9030414B18Rik
A_51_P144303 Ptger1,EP1,42kDa,Ptgerp1
A_51_P158529 Nptxr,NPR,Npcd,D15Bwg0580e,1200009K17Rik,17C
A_51_P158545 Ankk1,9930020N01Rik
A_51_P440327 Efhc1,mRib72-1,1700029F22Rik
A_51_P381683 Aatk,AATYK,mKIAA0641
A_51_P107808 AK034075
A_51_P180492 Dbp
A_51_P144319 Efna5,AL-1,Epl7,RAGS,EFL-5,LERK-7,Ephrin-A5
A_51_P123655 Kera,CNA2,SLRR2B
A_51_P158552 Zfp96,FPM315,mKIAA0426,2510038J07Rik
A_51_P308625 Olfr214,MOR119-1
A_51_P308628 NM_173444
A_51_P353856 Phgdhl1,1190008A14Rik
A_51_P516728 Hap1,HAP-1,MGC31449
A_51_P494845 Pctk2,MGC25109,6430598J10Rik
A_51_P454726 Gtf2a2,12kDa,Tfllg
A_51_P330615 BC031441,MGC18735
A_51_P139244 Rpl39,2810465O16Rik
A_51_P521216 Cebpg,Gpe1bp,Ig/EBP,GPE1-BP,C/EBP[g],C/EBPga
A_51_P150433 Cd8b1,Cd8b,Ly-3,Ly-C,Lyt-3
A_51_P151433 Ncbp2,20kDa,5930413E18Rik
A_51_P360004 4833422F24Rik
A_51_P123630 Irg1
A_51_P463270 Snapc3,1810020H02Rik,4930558A07Rik,5031401C2

A_51_P330630 Usp3,MGC28886
A_51_P494863 Al662250,Vmac
A_51_P102507 Vps33a,bf,3830421M04Rik
A_51_P123604 4632422M10Rik,A330090G21Rik
A_51_P488283 C1qtnf4,CTRP4,0710001E10Rik,9430004J15Rik
A_51_P244923 Al837181,Bles03
A_51_P454707 A630005A06Rik,Gm1037
A_51_P289496 Tcf20,SPBP,mKIAA0292,2810438H08Rik
A_51_P180452 Crk,Crk3,Crko,Crk-I,CrkoII,CrkoIII,Crko-III
A_51_P307168 Ddah1,2410006N07Rik,2510015N06Rik
A_51_P440365 Sdfr2
A_51_P170758 Grwd1,A301,GRWD,WDR28
A_51_P307166 Il1rn,IL-1ra,F630041P17Rik
A_51_P188141 Ltf,Lf,Ms10r,N lobe,MMS10-R
A_51_P345362 Arhgef11,RhoGEF,KIAA0380,MGC90827,mKIAA038
A_51_P123613 Al849286
A_51_P345366 Psmb8,Lmp7,Lmp-7
A_51_P289482 6430519N07Rik
A_51_P417952 Sema6b,Vlb,Sema,Seman,semaZ
A_51_P417956 1200016C12Rik
A_51_P345393 Fas,lpr,APT1,CD95,APO-1,TNFR6,Tnfrsf6
A_51_P495945 6230409E13Rik
A_51_P170782 Dpp8,4932434F09Rik
A_51_P469568 Cldn13,2500004B14Rik
A_51_P117581 Cables1,ik3-1,Cables
A_51_P463282 Scube3,CEGF3,D030038I21Rik
A_51_P131480 4932417H02Rik,Raptor,mKIAA1303
A_51_P442583 C030027K23Rik
A_51_P102538 Otop1,tlt,Otp1,A530025J20Rik
A_51_P516793 4921513D11Rik
A_51_P170772 6030441H18Rik
A_51_P180463 Cutl2,Cux2,Cux-2
A_51_P307133 Hspca,hsp4,86kDa,89kDa,Hsp89,Hsp90,Hsp86-1
A_51_P287241 1700012B07Rik,1700069D21Rik
A_51_P151423 9230112D13Rik
A_51_P290290 Prkcc,Pkcc,PKCgamma
A_51_P431885 Dnajc6,mKIAA0473,2810027M23Rik
A_51_P149842 Zfp597
A_51_P180423 Camp,Cnlp,MCLP,CAP18,Cramp,FALL39
A_51_P271160 Olfr166,MOR270-1
A_51_P205850 Olfr1450,MOR202-33
A_51_P313460 Cept1,9930118K05Rik
A_51_P195153 Gtse1,B99,Gtse-1
A_51_P244969 0610039K22Rik
A_51_P180413 C130076O07Rik,NrCAM,mKIAA0343,C030017F07R
A_51_P149852 Pip5k1c,mKIAA0589
A_51_P151493 Barx1
A_51_P102518 1700030E15Rik
A_51_P439711 Rif1,D2Erttd145e,5730435J01Rik,6530403D07Rik
A_51_P244950 Dpys,DHPase,1200017I10Rik,1300004I01Rik
A_51_P381611 Zcwcc2,5630401M14Rik
A_51_P149868 Irx1

A_51_P521283 Crabp2,Crabp-2,CrabpII
A_51_P151484 Atp1b1,Atpb,Atpb-1
A_51_P265676 Arhgap10,PSGAP-m,PSGAP-s,A930033B01Rik
A_51_P117206 Olfr54,F3,MOR126-1
A_51_P439746 Tmem49,4930579A11Rik
A_51_P226932 Tubgcp2,1700022B05Rik
A_51_P205833 Bcap37,BAP,REA,Bap37
A_51_P336070 Lctl,KLPH,E130104I05Rik
A_51_P317512 5730508B09Rik,2700063A17Rik
A_51_P149872 Kcna7,Kv1.7
A_51_P340947 1300018J18Rik
A_51_P418432 4930442L21Rik,MTLR1
A_51_P265660 Smc2l1,CAPE,CAP-E,Fin16,5730502P04Rik
A_51_P117236 Zfp354a,kid1,Tcf17,MGC91222
A_51_P336049 Krt1-3,Ha3,Ha4,mHa3
A_51_P226962 Solh
A_51_P205820 Tieg3,Tieg2b,9830142A17,D12Ertd427e
A_51_P469578 Psma1,C2,alpha-type
A_51_P424448 Sumo3,SMT3A,SUMO-3,Smt3h1,D10Ertd345e,2810
A_51_P401343 Cldn14
A_51_P418420 Ddx3x,Ddx3,D1Pas1-rs2
A_51_P205812 BC027541
A_51_P149818 Sfrs11,0610009J05Rik,2610019N13Rik
A_51_P290280 4933413J09Rik
A_51_P190262 Srprb
A_51_P254122 Zfp92
A_51_P418457 Defb13
A_51_P488399 Acas2,ACAS,Acs1,Acas1,AceCS1,1110017C11Rik
A_51_P454797 2310043N13Rik,FLJ23518
A_51_P511985 Dyrk1b,Mirk
A_51_P507204 2410017I18Rik
A_51_P321111 Olfr547,MOR31-4
A_51_P488383 Ptpn23,PTP-TD14
A_51_P273433 Prkg2,CGKII,Prkgr2
A_51_P488389 2310058D17Rik
A_51_P316981 Lgals8,Lgals-8,D13Ertd524e,1200015E08Rik
A_51_P195135 Spin,AA553322,MGC27756
A_51_P273405 Spnb2,elf1,elf3,SPTB2,SPTBN1,Spnb-2,KIAA4049,r
A_51_P391836 lgh-VJ558,MGC6727
A_51_P202760 1700128F08Rik
A_51_P469531 Asna1,ArsA,1810048H22Rik
A_51_P216303 Mmp14,MT1-MMP,MT-MMP-1
A_51_P226922 Pcsk1n,Pan3,SAAS,proSAAS,MGC19107
A_51_P431844 NAP069148-1
A_51_P195100 Vps4b,Skd1,8030489C12Rik
A_51_P316993 Arl6ip2,Aip-2
A_51_P458852 TC1083961
A_51_P487668 H2afy2,macroH2A2,4933432H23Rik
A_51_P430620 Slc25a12,2610002D09Rik
A_51_P401304 lpo11,Ranbp11,1700081H05Rik,2510001A17Rik,E3:
A_51_P216313 4933403F05Rik,MGC48232
A_51_P254157 4921515J06Rik

A_51_P418469 Dut,Dutp,dUTPase,D2Bwg0749e,5031412I06Rik,513
A_51_P507234 5330426P16Rik
A_51_P430653 Gucy2e,ROS-GC1
A_51_P487658 Zkscan1,KOX18,PHZ-37,ZNF139,MGC63357,59304
A_51_P202745 3110050K21Rik,2600010B19Rik,4930570G11Rik
A_51_P469510 1700074P13Rik
A_51_P401337 5330417H12Rik
A_51_P338803 Pigt,CGI-06,4930534E15Rik
A_51_P317505 Nat1,Nat-1
A_51_P290202 Hoxb13
A_51_P321126 Fasn,FAS,A630082H08Rik
A_51_P316951 BQ952480,9030621G03
A_51_P511949 AK078169
A_51_P507242 Fosl2,Fra-2
A_51_P302056 Tubd1,Tubd,4930550G19Rik
A_51_P430644 Lias,mLip1,MGC7254,2900022L22Rik,4933425M12f
A_51_P216335 4732465J09Rik
A_51_P391805 Dkk1,SGY,SGY1,mSgy,SGY-1,Soggy
A_51_P302049 4930516K23Rik
A_51_P430678 2410012H02Rik,1110068E08Rik
A_51_P487678 Dtnbp1,sdy,dysbindin,5430437B18Rik
A_51_P488175 Phf20I1,CGI-72,E130113K22Rik
A_51_P316902 9430071P14Rik
A_51_P391847 Mtx2,1500012G02Rik
A_51_P511918 Pcdhb18,Pcdhb9,PcdhbR
A_51_P507290 Klf5,CKLF,IKLF,Bteb2,4930520J07Rik
A_51_P114533 4933407P14Rik,IMP5
A_51_P254181 B430104H02Rik,Fahd2a,1500003K14Rik
A_51_P336083 Rps6kc1,RPK118,B130003F20Rik
A_51_P305997 Hnrpf,MGC36971,MGC101981,4833420I20Rik
A_51_P273489 Centb1,MGC25782,MGC47358
A_51_P327369 Plekhg3,MGC40768
A_51_P268953 9630015D15Rik
A_51_P487628 4930569K13Rik
A_51_P216315 Bag5,1600025G07Rik,4930405J06Rik
A_51_P273454 AK029539
A_51_P317542 6330417K15Rik
A_51_P375862 Stk23,Mssk1
A_51_P268944 E130012M19Rik
A_51_P114551 0610037L13Rik,1110008H16Rik
A_51_P391897 Olfr125,MOR218-8
A_51_P265685 0610008C08Rik,1110019O03Rik
A_51_P308796 Fosl1,Fra1, fra-1
A_51_P354548 NM_025941
A_51_P268977 Ube3a,Hpve6a,KIAA4216,mKIAA4216,4732496B02,
A_51_P211702 Cthrc1,1110014B07Rik
A_51_P289506 AV340375
A_51_P317562 NAP057102-1
A_51_P501803 Hoxa2,HOX1.11,Hox-1.11
A_51_P305950 Cryaa,Crya1,lop18,Acry-1,Crya-1,DAcry-1
A_51_P216387 U26474
A_51_P158400 Mnab

A_51_P511927 1300013J15Rik
A_51_P338837 Lrba,Lba,Lab300,D3ErtD775e
A_51_P327322 Solt,Solzt,B130045K24Rik,C530004N04Rik
A_51_P354526 2010011I20Rik
A_51_P482279 5830403E09Rik
A_51_P114563 5730411O18Rik,Ptag
A_51_P268914 Rpl30,MGC106425,MGC107559
A_51_P509733 Rbm31y,4933434H11Rik
A_51_P442894 C130048D07Rik
A_51_P463303 4933434L15Rik,MGC74393
A_51_P345649 Pdgfra,CD140a,Pdgfr-2
A_51_P216397 Notch2,N2
A_51_P338886 Ociad2,MGC51598,1810027I20Rik
A_51_P158418 2810488G03Rik
A_51_P417825 Cabp7
A_51_P463321 Aof2,mKIAA0601,D4ErtD478e,1810043O07Rik
A_51_P268934 Slc35e4,MGC28785,A330108F03Rik
A_51_P308778 Olfr352,MOR136-10
A_51_P475704 Pcdh9,Gm297,Gm1213,1500001L12Rik,A730003J17
A_51_P487028 Lim2,To3,MP19,19kDa,4833403J20
A_51_P463365 Cyfip1,Shyc,Sra-1,KIAA0068,P140SRA-1,mKIAA006
A_51_P360165 Ccng2,MGC113793
A_51_P345663 Rrbp1,p180,mRRp0,mRRp2,ES/130,mRRp10,mRRp
A_51_P152946 Yap1,Yap,65kDa,YAP65
A_51_P308726 Sdbcag84,CGI-54,D2Ucla1,NY-BR-84,2310015B14F
A_51_P417839 Hdac4,4932408F19Rik
A_51_P170603 Dock10,Jr4,Jr5,ZIZ3,Zizimin3,mKIAA0694,9330153E
A_51_P463348 E4f1
A_51_P195692 Nek8,jck,4632401F23Rik
A_51_P323212 2700045P11Rik
A_51_P463860 9830169C18Rik,9330169D17
A_51_P123510 V1rd4,V3R4
A_51_P488196 Bmper,Cv2,CV-2,3110056H04Rik
A_51_P417815 Mrgpra3,Mrga3
A_51_P440657 Nudt3,Dipp,1110011B09Rik
A_51_P394387 2410042D21Rik
A_51_P123546 Armc3,4921513G22Rik
A_51_P139765 1110051M20Rik,MGC4707,MGC40841,E130006N16
A_51_P475728 4933416E05Rik
A_51_P475741 Lypla1,Pla1a
A_51_P151179 1700041C02Rik,1700111D19Rik,4930445I03Rik
A_51_P284686 Aak1,MGC40785,mKIAA1048,9630042K20,D6ErtD24
A_51_P360122 2610028H24Rik
A_51_P345626 Tnni3k,Cark,D830019J24Rik
A_51_P417876 Smyd5,Rrg1,Rai15,NN8-4AG,MGC29044
A_51_P180546 1700023F06Rik
A_51_P381139 E430002D04Rik,B430307C05,5830411N06Rik
A_51_P123564 Kctd12b,9530071H11Rik,B430319H24Rik
A_51_P488180 Lrrtm3,9630044H04Rik
A_51_P374737 Ovch2,Ovtn,9230106D23Rik
A_51_P475770 4933435E02Rik
A_51_P381170 AK031095

A_51_P296535 Col4a3,[a]3(IV),alpha3(IV)
A_51_P230347 Srrp,B830039L16
A_51_P374726 Ptx3,TSG-14
A_51_P272206 D030070L09Rik
A_51_P435317 AK048085
A_51_P417854 Rab20,MGC107554,D8Ert350e
A_51_P339380 Setmar,Etet2,5830404F24Rik
A_51_P268983 Myom3,Gm434,8430427K15Rik
A_51_P487062 Olfr1344,MOR124-1,4930415J05Rik
A_51_P475748 Ivl
A_51_P170696 Ccdc5,HEI-C,MGC36238
A_51_P265765 Grin2b,NR2B,Nmdar2b
A_51_P439612 Dnajb10,Hsj1,mDj8,MGC113758,2700059H22Rik
A_51_P345685 2900042B11Rik
A_51_P381150 Phf15,Jade2,mKIAA0239,1200017K05Rik
A_51_P381157 2610034B18Rik
A_51_P439626 Map2k2,MK2,MEK2,Prkmk2
A_51_P171382 E430002D04Rik
A_51_P151126 Cd52,B7,MB7,CLS1,CAMPATH-1
A_51_P345699 Tnnt3,ftnT
A_51_P475785 BC052040,MGC62402
A_51_P144489 Cnot1,MGC7843,D830048B13,6030411K04Rik
A_51_P454441 Dhdh1,mKIAA1705,4921528E07Rik,9630061G18Rik
A_51_P409751 1700024C24Rik,9330147L21Rik
A_51_P454447 1700040I03Rik
A_51_P475788 Klrc2,NKG2C
A_51_P151133 9930032O22Rik,Desc4
A_51_P494775 Rcor1,D12Wsu95e,mKIAA0071,5730409O11,672044
A_51_P440694 Apg16l,WDR30,1500009K01Rik
A_51_P254234 Chchd4,2410012P20Rik,2810014D17Rik
A_51_P265778 4833446K15Rik
A_51_P206907 Olfr1056,MOR186-2
A_51_P284608 Ii,CD74,CLIP,DHLAG,HLADG,Ia-GAMMA
A_51_P205907 Flnc,ABPL,Fln2,ABP-280,1110055E19Rik
A_51_P195625 Zfp330,Noa36,MGC6718,MGC41503,MGC103365
A_51_P195622 Mtdh,3D3,Lyric,3D3/Lyric,D8Bwg1112e,2610103J23
A_51_P495895 Rpl10,QM,QM16,D3Ucla2,D0HXS648,DXHXS648,D
A_51_P230382 Etv4,Pea3,Pea-3
A_51_P418147 BC032265,FN3K-RP,MGC40640
A_51_P439645 1700001C19Rik
A_51_P216075 Ddost
A_51_P205953 Hnrpab,CBF-A,Cgbfa
A_51_P454463 Syt15,sytXV,CHR10SYT,E230025K04Rik
A_51_P487746 Olfr1097,MOR206-2
A_51_P151182 Ifi202b,Ifi202,Ifbip-1,Ifi202a
A_51_P272283 2310016A09Rik
A_51_P430357 Lrp10,Lrp9
A_51_P440682 Cap1
A_51_P322851 Olfr622,MOR26-1
A_51_P418116 BC025600,MGC38046
A_51_P487219 Cep1,IB3/5,Ma2a8,CEP110,6720467O09Rik
A_51_P265725 ENSMUST00000038909

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A_51_P299866 Srcasm,2310045L10Rik
A_51_P216049 Hemgn,Hgn,EDAG,mNDR,4921524M03Rik
A_51_P284665 Plcb1,Plcb,mKIAA0581,3110043I21Rik
A_51_P469147 Ascl2,Mash2,2410083I15Rik
A_51_P273378 TC956636
A_51_P424709 Nxph4,1110036M10Rik
A_51_P429284 Oat11,mMg81,A530047E07,DXHXS7927e,6330576A
A_51_P284678 AA792894
A_51_P290788 Lrrk2,Gm927,cl-46,4921513O20Rik,9330188B09Rik
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A_51_P284646 Abca5,ABC13,mKIAA1888,B930033A02Rik
A_51_P321449 Tnp2,TP2,TP-2
A_51_P430327 Gmpr2,AA959850,1810008P16Rik,5730544D12Rik
A_51_P150242 Olfr1362,MOR256-8
A_51_P133138 Kif20a,Rab6kifl
A_51_P254262 Nxph3
A_51_P273326 Sec31I1,ABP125,ABP130,SEC31A,HSPC275,18100
A_51_P302139 Mastl,THC2,2700091H24Rik
A_51_P114403 TC1059929
A_51_P223994 2900022L05Rik
A_51_P216015 Dleu2,Alt1,Leu2,1810047A16Rik
A_51_P254299 Egfl9
A_51_P302149 Cfl2
A_51_P223902 6330444E15Rik
A_51_P268496 Slc24a3,NCKX3
A_51_P379428 Syp,Syn,p38
A_51_P139096 1700122O11Rik
A_51_P316801 D430033N04Rik,MGC29335
A_51_P141850 Hs1bp3
A_51_P487718 E2f3,E2F3b,E2f3a,mKIAA0075
A_51_P321405 0610037D15Rik,4933430J04Rik
A_51_P429252 Prok2,Bv8,PK2,Prok1
A_51_P223929 Ash1I,Ash1,8030453L17Rik,E430018P19Rik
A_51_P424781 0610009D07Rik,Sf3b14,6030419K15Rik
A_51_P239113 Zfp35,Zfp-35,mszf13,mszf28,mszf68,mszf20-1
A_51_P448805 Ysk4
A_51_P265792 Olfr1312,MOR245-20
A_51_P265794 4930518F03Rik
A_51_P308469 Rngtt
A_51_P141818 Mrpl32,0610033O15Rik
A_51_P448814 Zfp90,NK10,Zfp64,Zfp83,KRAB17,mKIAA1954,6430!
A_51_P133198 Ruvbl2,p47,mp47
A_51_P223961 2810055E05Rik,LDC4,pS1D,pNO40,HSPC251
A_51_P141860 Fbxw11,HOS,BTRC2,BTRCP2,Fbxw1b,mKIAA0696,
A_51_P133169 3222402P14Rik,MGC29057,A730042E07
A_51_P316816 Ube1l,1300004C08Rik
A_51_P145433 Lin7c,Veli3,LIN-7C,MALS-3,LIN-7-C,MGC54626,D2E
A_51_P361830 Lgi2,mKIAA1916
A_51_P448856 Elf4,Mef
A_51_P516526 Stim2
A_51_P216085 1700006D24Rik

A_51_P463440 Elov16,FAE,LCE
A_51_P239137 Zfp94
A_51_P308446 1700094D03Rik
A_51_P308447 Uble1a,AOS1,SAE1,Sua1,HSPC140,D7Ert177e,24
A_51_P389244 V1rc17
A_51_P141836 Ube3c,mKIAA0010
A_51_P345139 2610040E16Rik
A_51_P144543 1700063H04Rik
A_51_P223946 Aprin,AS3,mKIAA0979
A_51_P153977 6820416H06Rik,Rscan1
A_51_P328968 Zfp322a,9630054P07Rik
A_51_P399873 Acmsd
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A_51_P107020 Kif5a,Kns,Kif5,KIAA4086,mKIAA4086,D10Bwg0738e
A_51_P307370 Rxra,Nr2b1,RXRalpha1
A_51_P509223 Arfgap1,Arf1gap
A_51_P239166 Adam21,Adam31
A_51_P144500 Sntb1
A_51_P139021 Clpp,D17Wsu160e
A_51_P509229 Tnrc6a,Tnrc6,CAGH26,MGC11932,2010321I05Rik,3
A_51_P211315 BC023296,MGC30595
A_51_P512306 Kirrel2,NLG1,NEPH3,C330019F22Rik
A_51_P472393 4930426D05Rik
A_51_P360262 Immp2l,IMP2
A_51_P328932 Tparl,pFT27,Tpardl
A_51_P123895 D0H4S114,P311,PTZ17,SEZ17
A_51_P123892 Lrrtm4,A230052N11,7530419J18Rik
A_51_P345121 Cd8a,Ly-2,Ly-B,Ly-35,Lyt-2
A_51_P139012 9530098N22Rik
A_51_P211305 Alpk3,MAK,Midori,D330016D04
A_51_P153949 4933425B07Rik
A_51_P448881 D2Ert1391e,1110053A20Rik
A_51_P345166 8030491N06Rik
A_51_P454152 C130058G22Rik
A_51_P211341 Eif3s1,AA409446,eIF3-p35,eIF3-alpha,1810016I04R
A_51_P345159 Ube2t,2700084L22Rik
A_51_P399853 Gig1,C030026M03,C030034L19Rik
A_51_P284976 Nt5c,Dnt,Dnt1,Umph2,Umph-2
A_51_P439584 Rhov,Arhv,MGC29297,A030005A06Rik
A_51_P475628 Paqr6,1500001B10Rik
A_51_P437906 V1rb4,V1RA10
A_51_P308419 Grit,RICS,GC-GAP,KIAA0712,mKIAA0712,p200Rho
A_51_P463401 9330186A19Rik,13CDNA73,KIAA4143,mKIAA4143,I
A_51_P521056 Soc6,Cis4,SSI4,Cish4,STAI4,STAT4,Socs4,SOCS-
A_51_P268439 Mcam,CD146,CD149,Muc18,s-endo,1-gicerin,s-gicer
A_51_P144575 Ubr2,AI462103,AW540746,MGC36320,9930021A08
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A_51_P230075 Amh,MIS
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A_51_P243857 Copb2
A_51_P240614 Tm4sf1,L6,M3s1
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A_51_P475646 Map4k3
A_51_P230055 Olfr961,MOR224-5
A_51_P211695 Prlpe,PLP-E,PLP-G,Prlpg
A_51_P399866 Hook2,MGC28586,MGC91008,A630054I03Rik
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A_51_P284946 Rho,Arhe,2610017M01Rik
A_51_P307327 Hecw1,Nedl1,9330116H24Rik,E130207I19Rik
A_51_P307325 Rbbp4,mRbAp48
A_51_P416397 Tbc1d22a,MGC28337,D15ErtD781e
A_51_P240624 Olfr642,MOR13-6
A_51_P243808 6030423D04Rik,T3jam,MGC41284
A_51_P183822 Syt11,1500004A13Rik,3632445O20Rik,5430404N14
A_51_P521001 4930504E06Rik,ni,cl-40,mKIAA1390,1810005H09Ril
A_51_P268469 Pcdhb19,PcdhbS,Pcdhb11
A_51_P284937 Gfm1,Gfm,D3Wsu133e
A_51_P418682 Olfr993,MOR203-2
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A_51_P454166 Msh3,Rep3,Rep-3,D13Em1
A_51_P463497 Rnh1,RNH
A_51_P195374 Baiap211,1300006M19Rik
A_51_P359346 Artn,neublastin
A_51_P439531 4930478A21Rik
A_51_P475672 Slc7a1,Atrc1,Rec-1,Rev-1,Atrc-1,mCAT-1,4831426K
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A_51_P183803 Siah2,Sinh2
A_51_P439520 Pacs1l,mKIAA0602,E230011J22,6720425G15Rik
A_51_P123805 Sbn1,sno,MGC28589,9330180L10Rik
A_51_P144581 Pgrmc1,PPMR,Vema,HPR6.6
A_51_P487178 2410080H04Rik,D130061K05
A_51_P416387 Morf4l2,MRGX,Sid393p,mKIAA0026,2410017O14Ril
A_51_P123879 Srd5a2l2,D330017N19Rik
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A_51_P204630 Atp2c1,HHD,BCPM,SPCA,pmr1,ATP2C1A,MGC580

A_51_P519837 Cherp,DAN16,Scaf6,D8Wsu96e,5730408I11Rik
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A_51_P418650 5730409F24Rik
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A_51_P454196 Sh2d4a,SH2A,2210402M20Rik
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A_51_P151682 Htr5a,Htr5
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A_51_P255844 2700059L22Rik
A_51_P254736 Ercc6,CSB,4732403I04
A_51_P418644 BC022765,MGC37495,E230006A12Rik
A_51_P281824 Prmp5,MP5
A_51_P298615 Lhx8,L3,Lhx7
A_51_P273203 Gpaal1,mGAA1
A_51_P307380 BU962533
A_51_P142320 Pik3cd,p110delta,signalling,2410099E07Rik
A_51_P354934 Rgs5,1110070A02Rik
A_51_P321331 Sptlc2,LCB2,mKIAA0526
A_51_P430423 Ada
A_51_P255853 Tal1,Sc1,tal-1,SCL/tal-1
A_51_P183882 Tnfrsf12,DR3L,APO3L,DR3LG,Tweak
A_51_P418662 A_51_P418662
A_51_P438952 Bag4,SODD,2410112I15Rik
A_51_P416243 Exosc9,p5,p6,RRP45,Pmscl1,PM/Sc1-75
A_51_P284997 St6galnac6,Siat7f
A_51_P114722 Hao3,HAOX3
A_51_P507065 Celsr3,mKIAA0812
A_51_P290018 Fin14
A_51_P430462 Alox15b,8-LOX,Alox8,8S-LOX
A_51_P321374 D830019K17Rik
A_51_P190437 4930455F23Rik
A_51_P202911 2810022L02Rik
A_51_P434527 5430432P15Rik
A_51_P354961 5730416O20Rik
A_51_P281806 2510012J08Rik
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A_51_P211573 Wdr47,mKIAA0893,1810073M12Rik
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A_51_P124886 MGC6357

A_51_P302256 Dlgh4,PSD95,SAP90,PSD-95,SAP90A
A_51_P273234 Olfr649,MOR31-7
A_51_P407866 1700020D05Rik,mage-g2
A_51_P117087 Kcnp1,KCHIP1,Kchip1.2,2900046L02Rik,3202002F
A_51_P187602 Serpinb5,Spi7,Maspin,ovalbumin,1110036M19Rik
A_51_P487434 Olfr167,MOR272-1
A_51_P265822 Olfr1179,MOR225-2
A_51_P321341 Sult1a1,PST,Stp,Stp1
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A_51_P488368 Ttid,MYOT,5530402I04Rik
A_51_P202920 Wbscr17,E330012B09Rik
A_51_P488362 Olfr632,MOR2-1
A_51_P482099 4930500O05Rik
A_51_P265869 Hspa9a,mot2,74kDa,GRP75,Hsc74,Hsp74,PBP74,m
A_51_P290050 Olfr654,MOR38-2
A_51_P145300 5730470L24Rik
A_51_P281855 Mms19l,Mms19,2410001K24Rik,2610042O15Rik
A_51_P202950 Dedd2,FLAME-3,2410050E11Rik
A_51_P466875 Sbds,SDS,CGI-97,4733401P19Rik
A_51_P107998 9930013L23Rik,12H19.01.T7,6330404C01Rik
A_51_P107991 Zfp2,Fnp-2,Zfp-2,mkr-2,mszf87,MGC107189,993000
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A_51_P317740 Pcgf2,Mel18,Rnf110,Zfp144,mel-18
A_51_P202942 Cox4i2,Cox4b,CoxIV-2
A_51_P224424 Klhl4,B130014A11,C130018J01Rik
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A_51_P308597 Gcm2,Gcm1,Gcm-rs1,Gcm1-rs2
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A_51_P430485 Commd5,Hcarg,D15Ert81e,2310065H03Rik
A_51_P317761 Crisp3,Aeg2,CRS3,SGP28,CRISP-3
A_51_P124808 Ube1y1,Sby,Ube-2,Ube1y,A1s9Y-1,Ube1y-1
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A_51_P107934 Pak7,Pak5,6430627N20,2900083L08Rik
A_51_P158638 0610031G08Rik
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A_51_P509140 U2af114,U2af26
A_51_P466824 Tyk2,JTK1
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A_51_P377995 Ptpq
A_51_P230552 Rfng,MGC90122
A_51_P521374 Nudt13,4933433B15Rik
A_51_P345449 Olfr39,MOR144-1
A_51_P509137 Bid3,DP5,Hrk,harakiri
A_51_P487690 Ifi44,p44,MTAP44,A430056A10Rik
A_51_P440892 Dph2l2,9130020C19Rik
A_51_P144648 2310042E16Rik
A_51_P224468 9430016H08Rik
A_51_P488308 Vps54,Hcc8,Vps54l,5330404P15Rik
A_51_P308557 Ncln,3100002P13Rik
A_51_P392943 AB112350,Mbldc1,NAPE-PLD,A530089G06
A_51_P123731 2010013I23Rik
A_51_P144632 Sit1,Sit
A_51_P243941 4930404A10Rik
A_51_P158678 A830059I20Rik
A_51_P463570 Mast2,Mtssk,MAST205,mKIAA0807
A_51_P170405 Il13ra2,CD213a2
A_51_P123765 Renbp
A_51_P509107 Rpl35a,Rpl35,2810431L15Rik
A_51_P509109 Olfr806,MOR110-5,MOR110-12
A_51_P440885 Arfp1
A_51_P392963 Abi1,E3B1,NAP1,MGC6064,Ssh3bp1
A_51_P392967 Zmynd10,Blu
A_51_P243963 Car5b,CAVB,CarVb,7330410H16Rik,D730005F19Ri
A_51_P211260 Dscaml1,mKIAA1132,4921507G06Rik,4930435C18F
A_51_P180761 Mybl1,A-myb
A_51_P170463 BC070439
A_51_P392950 Sostdc1,Sostl,ectodin,0610006G05Rik
A_51_P151362 6230401O10Rik,FLJ00134,mFLJ00134,2810031J10
A_51_P123744 Lrfn5,KIAA4208,mKIAA4208,C130061B21
A_51_P102883 Muc5ac,MGM,2210005L13Rik
A_51_P509125 Galr3,Galn3
A_51_P107901 H2afz,H2A.Z
A_51_P475502 Ndufa8,0610033L03Rik
A_51_P519592 Fusip1,Nssr,TASR,NSSR1,NSSR2,TASR1,TASR2,F
A_51_P381743 Wdr55,2410080P20Rik
A_51_P475545 Ghrrh,lit,Ghrrr,little
A_51_P180773 Olfr1087,MOR188-5
A_51_P457492 0610006I08Rik
A_51_P230537 BC013491
A_51_P381749 2310042G06Rik
A_51_P284486 Gstm2,Gstb2,Gstb-2
A_51_P170476 Kcns1,Kv9.1
A_51_P243900 Nell2,mel91,A330108N19Rik
A_51_P180747 Ctla2a,Ctla-2a
A_51_P360338 D11Ert686e,DNAH9,9030022M04,A230091C01,C2
A_51_P463536 Meox1,Mox1,Mox-1,D330041M02Rik
A_51_P521307 Olfr1512,MOR223-5
A_51_P521304 Klhl13,Bklhd2,mKIAA1309,1200009K10Rik,D130072
A_51_P272066 2010109I03Rik
A_51_P123724 Ltbp3,Ltbp2

A_51_P439403 Padi1,Pdi1
A_51_P151307 4930589M24Rik
A_51_P302087 Capza3,Gsg3,Tex8,Cappa3
A_51_P440807 Crat,CARAT
A_51_P454666 Arl6ip4,Aip-4,Srp25
A_51_P180754 Mtap2,MAP2,Mtap-2
A_51_P381763 Amd1,Amd-1,AdoMetDC,MGC91044,MGC102468
A_51_P151316 Gabra5,A230018I05Rik
A_51_P180724 Mlh1,1110035C23Rik
A_51_P123705 Dus3l,MGC56820
A_51_P440838 Fgfr1op2,1500031J01Rik
A_51_P440852 Mtrf1,MGC19099,A830062K05Rik
A_51_P359424 1110030K22Rik,CHASM
A_51_P243930 Qrs1,GatA,2700038P16Rik
A_51_P475580 Ugp2,MGC38262
A_51_P475589 Stx1b1,Stx1bl
A_51_P418374 Gpr87
A_51_P440828 1200009B18Rik,Ptx1,4930572C01Rik
A_51_P354895 AK087644
A_51_P424569 Tbc1d12,MGC38216
A_51_P190765 Rtc1,RPC,MGC102342,2310009A18Rik
A_51_P149960 D030041N04Rik,6030453H13
A_51_P102860 5031400M07Rik
A_51_P439446 Tll1,Tll,Tll-1
A_51_P424550 Slc23a3,SVCT3,Yspl1
A_51_P418357 Mov10l1,Csm,CHAMP
A_51_P407989 Pcgf5,0610009F02Rik,1110054A01Rik,5830406C17
A_51_P123795 Zfp637,MGC54806
A_51_P454696 1300013F15Rik
A_51_P254019 AU040829,6330543G20
A_51_P416705 Lrrn2,NLRR-2,5730406J09Rik
A_51_P430165 Gpr1,MGC41704
A_51_P254072 BC051080,Ric-8,Ric8b,MGC58970
A_51_P273170 Nol3,ARC,MYC,NOP,Nop30,B430311C09Rik
A_51_P284476 Gpm6b,M6B,Gpm6
A_51_P418325 Chrm4,M4,Chrm-4
A_51_P407999 1500011B03Rik
A_51_P302324 Krtap8-1
A_51_P195034 Esco2,2410004I17Rik,D030072L07Rik
A_51_P440865 1700012H17Rik,5031405P22
A_51_P187954 C630028F04Rik
A_51_P424532 Vnn1,V-1
A_51_P339540 Cdkn1c,CDKI,Kip2,p57Kip2,p57(kip2)
A_51_P195066 Sema4a,SemB,Semab
A_51_P230583 Tnfrsf14,Atar,HveA,Hvem,Tnfrs14
A_51_P418317 Mis12,Misc12,2510025F08Rik
A_51_P487547 1810060J02Rik,1700086G08Rik
A_51_P302336 Igf2bp3,IMP3,IMP-3,Koc13,mimp3,Neilsen,26101011
A_51_P216254 AK048005
A_51_P273157 Pde6h,PDEgamma,A930033D18Rik
A_51_P192397 Scube2,Cegf1,Cegp1,4932442O19Rik
A_51_P391380 B230380D07Rik,KIAA1164,mKIAA1164

A_51_P302308 9630033F20Rik
A_51_P519536 Lamp2,CD107b,Lamp-2
A_51_P424518 3110068G20Rik
A_51_P321643 H6pd,Gpd1,G6pd1,Gpd-1
A_51_P302346 Olfr985,MOR171-4
A_51_P308961 Hmgcl,HL
A_51_P254045 Traip
A_51_P290576 Plk2,Snk
A_51_P507324 Txndc10,mKIAA1830,6430411B10Rik,A730024F05R
A_51_P281938 Stat5b
A_51_P321651 2310065K24Rik
A_51_P281930 Hsd12,2610207116Rik
A_51_P273130 Mrpl9,L9mt,8030480E20Rik,C330013D18Rik
A_51_P507359 Wbscr27,MGC8159
A_51_P372702 Il16,KIAA4048,mKIAA4048
A_51_P519555 Gnb1l,Wdr14,Wdvcl,ESTM55
A_51_P291339 Ssrp1,T160,Hmgox,Hmg1-rs1,Hmgi-rs3
A_51_P434670 Qk,Qkl,I17Wis1,1500005P18,I(17)-1Wis
A_51_P372743 B930041G04
A_51_P308948 1500001M20Rik
A_51_P290556 9430031J16Rik,Jr6,MGC90544
A_51_P487501 Mobk1b,MOB1,MOB4B,MGC6884,4022402H07Rik
A_51_P114606 Nckap1,H19,Nap1,mh19,Hem-2
A_51_P216211 Pcgf1,Nspc1,2010002K04Rik
A_51_P281912 6330416L11Rik
A_51_P233855 Adprh1,Arh2,D330008N11Rik
A_51_P487555 Cd7
A_51_P519570 1600002K03Rik
A_51_P133345 Apln,Apel,6030430G11Rik
A_51_P211471 Rab40b,rar,SEC4L
A_51_P139690 Olfr51,ID7,MOR129-3
A_51_P511833 9430069I07Rik
A_51_P289881 0610040B21Rik,ERp19
A_51_P124993 AW538196
A_51_P114616 Batf,B-ATF,SFA-2
A_51_P321600 1700041C02Rik,1700111D19Rik,4930445I03Rik
A_51_P487518 Casp12
A_51_P158189 E330039K12Rik,Pcnx12,KIAA0435,mKIAA0435,A83C
A_51_P133369 Scly,SCL,Scly1,Scly2,9830169H08
A_51_P302358 Ltb,p33,Tnfc,LTbeta,Tnfsf3
A_51_P124968 Il23r,IL-23R
A_51_P321610 Mapkbp1,Jnkbp1,2810483F24Rik
A_51_P354857 Bnipl,PP73,PP753,BNIP-S,BNIPL1,BNIPL2,BNIPL-1
A_51_P149983 lpo9,Imp9,Ranbp9,0710008K06Rik
A_51_P511810 Cd63,ME491,Tspan30,MGC103180,MGC107286
A_51_P379660 Al839562,Af1q
A_51_P234253 Sdcbp2,MGC11704
A_51_P391328 Fbxo34,2900057B08Rik,5830426G16Rik
A_51_P317443 Cd3eap,Ase1,CAST,ASE-1,PAF49,1190028F09,261
A_51_P268687 Mc2r,ACTHR
A_51_P126275 Krt2-6b,mK6[b]
A_51_P511800 Oma1,MPRP-1,ZMPOMA1,2010001O09Rik

A_51_P192323 Ttc12,E330017O07Rik
A_51_P133349 Lats2,4932411G09Rik
A_51_P192329 Atp8b1,lc,FIC1
A_51_P507380 Hdac1,HD1,RPD3,Hdac1-ps,MGC102534
A_51_P472538 2410001H17Rik
A_51_P133381 D2Bwg0891e,1110017A21Rik,2900022J10Rik
A_51_P239315 St7,HELG,RAY1,SEN4,TSG7,Fam4a2,9430001H04I
A_51_P281997 2810453L12Rik
A_51_P472531 2810429K17Rik,4833414G15Rik
A_51_P273197 Mrpl28,p15,MAAT1,MGC8184,1110015G04Rik
A_51_P124951 Wdr39,Ciao1
A_51_P447855 Zfp294,4930528H02Rik
A_51_P142091 Asb8,4930539L19Rik,C430011H06Rik
A_51_P124923 1700065A05Rik
A_51_P192344 Ash2l
A_51_P158103 Triobp,Tara,EST478828
A_51_P289836 Slc29a1,ENT1,1200014D21Rik
A_51_P416126 Chd3,Chd7,Prp7,Prp9-1,MGC40857,2600010P09Rik
A_51_P321698 Pxmp4,Pmp24,3010018P03Rik
A_51_P239376 Lamp3,LAMP,Cd208,DCLAMP,TSC403,DC-LAMP,1:
A_51_P416137 Slc31a2
A_51_P139678 Sprr1a,SPR1a,mSPRR1A
A_51_P289828 6230424H07Rik
A_51_P247542 4932418K24Rik,t8130b59
A_51_P345775 Slc2a12,Glut12,GLUT-12
A_51_P447830 Slc9a1,swe,Aphh,Nhe1
A_51_P239367 Krt2-20
A_51_P232434 Abhd1,LABH1,LABH-1
A_51_P256842 Yif1b,Yip1b,9430029K10Rik
A_51_P158161 2610012O22Rik,Mg684
A_51_P345714 Tsc2,Tcs2,tuberin
A_51_P392867 Pex12
A_51_P454374 Tlx2,Enx,NCX,Ncx1,Tlx1l1,Tlx1l2,Hox11l1,Hox11L.1
A_51_P289862 Rap1ga1,Rap1GAP,1300019I11Rik,2310004O14Rik
A_51_P487749 Elk4,Sap1,2310011G17Rik,A130026I01Rik
A_51_P211165 1700009P03Rik,Se70-2,Pro1777,C230097K14Rik
A_51_P102987 Penk1,ENK,PPA,Penk
A_51_P158120 B3galnt2,MGC103263,A930105D20Rik,D230016N1:
A_51_P416108 BC027183
A_51_P230214 Cdc42ep2,Cep2,Borg1,D19Bwg1013e,1110008C05F
A_51_P268617 Cntnap4,Caspr4,E130114F09Rik
A_51_P307567 lqcb1,6820449I09Rik
A_51_P151070 AK046642
A_51_P193475 A430106J12Rik,Ape,C330012F17Rik
A_51_P170316 V1rd14,V3R8
A_51_P393563 Ucp2,Slc25a8
A_51_P144712 Gbf1,MGC90745,MGC100238,mKIAA0248,1700083
A_51_P240425 Olfr918,MOR164-3
A_51_P241694 9030416H16Rik,E230024D05Rik
A_51_P416152 Cart
A_51_P211171 Haao,0610007K21Rik,0610012J07Rik
A_51_P409260 Smad1,Mlp1,Madh1,Madr1,MusMLP

A_51_P440743 Celsr1,Scy
A_51_P463607 E430012M05Rik
A_51_P392861 Med25,ESTM2,2610034E13Rik,2610529E18Rik
A_51_P211152 Phf14,KIAA0783,mKIAA0783,1110001C23Rik,49324
A_51_P439348 D12ErtD771e,2610305M23Rik
A_51_P240476 Dnahc11,iv,Ird
A_51_P151038 Pmpcb,MPPB,MPP11,MPPP52,3110004O18Rik
A_51_P440707 2410004N11Rik
A_51_P240404 A830010M20Rik,mKIAA1107
A_51_P230269 H2-Q10,Q10,Qa10,H-2Q10
A_51_P170326 Stk25,Ysk1,Ste20-like,1500019J11Rik
A_51_P440722 LOC434635
A_51_P475446 Slc25a5,Ant2,MGC101927
A_51_P284716 4930407110Rik
A_51_P409868 V1ra5,V1RA2
A_51_P151020 Tnp1,TP1,TP-1,Stp-1
A_51_P359173 B230112P13Rik
A_51_P144783 Cct5,Ccte,mKIAA0098
A_51_P454300 Supt4h1,Supt4h
A_51_P240453 Nusap1,LNP,ANKT,SAPL,BM037,NuSAP,Q0310,26'
A_51_P418056 Sc5d,A830037K02,A830073K23Rik
A_51_P230298 Hdgfl1,HRP-1,Pwwp1,Hdgfrp1
A_51_P142621 Msrb3,Msrb2,D430026P16Rik
A_51_P261412 T2,brachyury2
A_51_P416191 Hectd1,MGC12070,A630086P08Rik
A_51_P392894 lldr1
A_51_P117130 Naga
A_51_P151003 Tle3,ESG,Grg3a,Grg3b,mKIAA1547,2610103N05Rik
A_51_P423813 2010001C14Rik
A_51_P269020 1700031F05Rik
A_51_P323391 1700061117Rik
A_51_P440790 Dpp7,QPP,Dpp2,DPPII
A_51_P230287 Sorcs2,mKIAA1329
A_51_P329818 Dpep3,MBD-3,1700018F16Rik
A_51_P329811 Reg1
A_51_P418049 1700016A09Rik
A_51_P435068 Acadsb,1300003O09Rik
A_51_P240448 Pi15,P24TI,P25TI,SugarCrisp
A_51_P439311 1810041L15Rik
A_51_P273044 Baz2a,Tip5,Walp3,mKIAA0314,C030005G16Rik
A_51_P254542 Olfr798,MOR108-1
A_51_P418039 Ntrk3,TrkC
A_51_P402846 Stab2,FELL,FEEL-2,STAB-2
A_51_P171711 Cacna2d2,du,td,torpid,Cacna2d,mKIAA0558
A_51_P102943 Hsf1
A_51_P439326 Arhgap9,MGC37568
A_51_P430259 1700009P17Rik
A_51_P424893 Birc4,Aipa,Api3,IAP3,MIHA,XIAP,ILP-1,mXIAP
A_51_P430263 Psph,PSP,PSPase
A_51_P480855 Rad18,Rad18sc,2810024C04Rik
A_51_P156316 Zfp369,NRIF2,D230020H11Rik
A_51_P133012 Fbxo24,Fbx24,4933422D21Rik

A_51_P284741 A_51_P284741
A_51_P151086 Usp47,4930502N04Rik,A630020C16Rik
A_51_P329855 Zfp598
A_51_P329879 2010208K18Rik
A_51_P321512 4930470G04Rik
A_51_P133005 TC955750
A_51_P430202 Gpd1l,D9Erttd660e,2210409H23Rik
A_51_P149422 Gng13,Ggamma13,1500031D04Rik
A_51_P424828 Nat5,D2Erttd186e,1500004D14Rik,2900026I01Rik
A_51_P339268 Vps26,HB58
A_51_P133037 Ppp1r14b,Png,PHI-1,AOM172,PLCB3N
A_51_P239286 Bcl2l12,Bcl-L12,Bcl2-L12,2810475P17Rik,5430429M
A_51_P329869 Dgkq,DAGK,Dgkd,DAGK7,Dagk4,110kDa
A_51_P273005 Actl7a,Tact2
A_51_P149439 B430201G11Rik,MGC62441,mKIAA1115,2010309P
A_51_P321579 Chd5,4930532L22Rik,B230399N07Rik
A_51_P204442 Phf19,3110009G19Rik,3321402G02Rik
A_51_P507664 Slc25a18,1500015I14Rik
A_51_P291210 2600003E23Rik,Afap,mKIAA3018,9630044L16Rik
A_51_P507602 Clca4
A_51_P447988 Atp6ap1,16A,CF2,ORF,AC45,C7-1,XAP-3,Atp6s1,V/
A_51_P321531 Purg,4930486B15Rik
A_51_P507622 Itpkc,9130023N17Rik
A_51_P290619 Al324046,MGC68300
A_51_P355375 Huwe1,Ib772,LASU1,Ureb1,5430439H10Rik,C43001
A_51_P156363 Hnrpu1,E1BAP5,E1B-AP5,MGC36621,MGC78330,E
A_51_P141953 1110008L16Rik,KIAA0391,mKIAA0391
A_51_P161612 Ccng1
A_51_P317141 Col2a1,Dmm,Del1,Col2a,Col2a-1,MGC90638
A_51_P133052 3930401K13Rik,Npac
A_51_P507637 A_51_P507637
A_51_P290648 Olfr930,MOR171-46
A_51_P321563 Tnrc6c,mKIAA1582,9930033H14Rik
A_51_P424810 Luzp5,Mtb,5830426I05Rik
A_51_P409893 Prkar2a,Ril(alpha),1110061A24Rik
A_51_P469433 Tnfrsf4,Ox40,ACT35,CD134,Ly-70,Txgp1,TXGP1L
A_51_P376445 Pem
A_51_P156348 Matr3,Al841759,mKIAA0723,D030046F20Rik
A_51_P424854 Ahsg,fetuin-A
A_51_P162805 Hcn4,Hcn3,Bcng3
A_51_P317115 Wdr18,2310012I10Rik
A_51_P141949 B230120H23Rik,Zak,MLTK,MLTKbeta,MLTKalpha
A_51_P145541 Rbms1,YC1,MSSP-1,MSSP-2,MSSP-3,2600014B10
A_51_P149469 Actc1,Actc-1
A_51_P224630 1190002H09Rik,8030470C17Rik
A_51_P424868 Mid1ip1,Mig12,3110038L01Rik
A_51_P141970 Mum1,UBE-1C2,AU018975,AU024588,2610019J09,
A_51_P133078 Npepps,Psa,goku,MP100,MGC102199
A_51_P321508 Ptgdr,DP,PGD
A_51_P317166 1810007M14Rik,C21orf66
A_51_P114177 1810022C23Rik
A_51_P424878 2810405K02Rik

A_51_P317176 Csf3,Csfg,G-CSF
A_51_P447976 4930431B09Rik
A_51_P290626 Gulo,sfx,unh,unhip,MGC29968,MGC37793,MGC378
A_51_P145533 Rnf14,Triad2,D7Bwg0165e,D18ErtD188e,2310075C
A_51_P509389 Ppp1ca,Ppp1c,dism2
A_51_P114136 Rpap1,mKIAA1403,1190005L06Rik,A730023M06Rik
A_51_P181571 Hnrpl,D830027H13Rik
A_51_P254583 BC024806,MGC38853
A_51_P509384 Aldh8a1,Raldh4
A_51_P201276 Btf3,1700054E11Rik
A_51_P452637 Gm1024
A_51_P141960 Rdh12,A930033N07Rik
A_51_P447946 Bysl,Bys,Enp1
A_51_P114126 AK012034
A_51_P494196 Arnt,Drnt,Hif1b,ESTM42,KIAA4051,mKIAA4051,D3E
A_51_P224617 Eea1,ZFYVE2,B230358H09Rik
A_51_P162812 Srsnf2l,Arip4,D130058C05,G630026H09Rik
A_51_P133097 8430416G17Rik
A_51_P156394 1700010C24Rik
A_51_P317122 2610311I19Rik,Yip1a
A_51_P416215 Sirt6,2810449N18Rik
A_51_P512061 1600015I10Rik
A_51_P447955 Kcnk16,TALK1,TALK-1,4731413G05Rik
A_51_P126327 AJ430384
A_51_P224660 D5Wsu178e,SELI,KIAA1724,mKIAA1724,4933402G
A_51_P158061 Dalrd3,6330580J24Rik
A_51_P463765 Timp3,Timp-3
A_51_P239236 Acacb,Acc2,Accb
A_51_P509339 4933407H18Rik,mKIAA1530,D330017J19Rik
A_51_P158072 A230050P20Rik
A_51_P501364 Tbx21,TBT1,T-bet,Tblym
A_51_P321580 Dazap2,Brbp,Prtb,gt6-12,MGC25222,mKIAA0058
A_51_P448971 Sncb,betaSYN
A_51_P158007 4833439L19Rik,4930558H15Rik
A_51_P141926 Fxyd4,Chif,MGC107631,0610008I02Rik
A_51_P353914 Icam5,TLN,Tlcn
A_51_P457259 Sms,Gy,gyro
A_51_P447908 Fbxl17,Fbx13,Fbxo13,6330576B01Rik,C130023C01
A_51_P273096 BC019755,Nip,MGC25550
A_51_P239257 Pcdh1,2010005A06Rik
A_51_P454057 Slc25a21,A630030I10,9930033G19Rik
A_51_P158018 2310026E23Rik
A_51_P317181 Pcdhb21,PcdhbU,Pcdhb18
A_51_P433556 Rbm21,PAPD2,2700038E08Rik
A_51_P211064 Olfr690,Ors18,MOR31-2
A_51_P448995 6330579B17Rik
A_51_P521161 Caml
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A_51_P433540 BC025458
A_51_P521155 1700124P09Rik
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A_51_P293127 Zbtb5,mKIAA0354,5930421I10,9430083K24Rik
A_51_P416278 A230058J24Rik
A_51_P475378 Echdc3,2310005D12Rik
A_51_P268529 Dnase2a,Dnase2
A_51_P170207 D430028G21Rik,MGC25836
A_51_P224682 Htr1f,Htr1eb
A_51_P289912 Rapgef2,Pdzgef1,mKIAA0313,5830453M24Rik
A_51_P302222 Entpd4,Lysal1,mKIAA0392,1200014F22Rik,4930513
A_51_P268559 Idh3a,1110003P10Rik,1500012E04Rik
A_51_P230716 Igh-VJ558,MGC6727
A_51_P439299 Tnfrsf19l,RELT,E430021K24Rik
A_51_P144813 Cdkn2a,Arf,p16,MTS1,p19ARF,p16INK4a,ARF-INK4
A_51_P359293 3110003A22Rik,6430407D20Rik
A_51_P416295 ligp2,GTPI,MGC102455
A_51_P240703 Gpr151,GPCR,PGR7,GalRL,nGPCR-2037,C130082
A_51_P230722 Al447928,mKIAA0874
A_51_P521128 Ncoa6,NRC,AIB3,ASC2,PRIP,ASC-2,Ncoa7,RAP25
A_51_P170229 D530014G21Rik
A_51_P381558 Rasa4,GAPL,CAPRI,KIAA0538,mKIAA0538
A_51_P494125 Akp2,TNAP,Akp-2,TNSALP
A_51_P144801 2210403K04Rik
A_51_P494122 1810009K13Rik
A_51_P433584 Bcas3,K20D4,1500019F07Rik,2610027K06Rik,2610
A_51_P302206 Pcdhb8,PcdhbH,Pcdhb5C
A_51_P300787 2900005P22Rik
A_51_P519791 F630043A04Rik
A_51_P183971 Barhl1,MBH2,Dres115
A_51_P240723 1700022A21Rik
A_51_P126384 1700030B21Rik
A_51_P268563 Eng,CD105,S-endoglin
A_51_P211088 Rasgef1b,Gpig4,GPIgamma4,4732452O09Rik
A_51_P284293 Zfyve9,NSP,SARA,Madhip,SMADIP,E030027L17
A_51_P188666 Gcs1,1810017N02Rik
A_51_P144825 Cln2,TPP-I
A_51_P439248 Mrc1,CD206
A_51_P293156 AK088611
A_51_P123920 D17Wsu104e,Ly6elg,SF20/IL-25
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A_51_P144868 Leng4,BB1,5730589L02Rik
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A_51_P381522 Gtf2ird1,BEN,GTF3,ESTM9,Cream1,Gtf2il,MusTRD1
A_51_P381527 Orc4l,Orc4,Orc4P,mMmORC4
A_51_P463784 Npat,6820401K01
A_51_P195258 Atf7ip,AM,2610204M12Rik
A_51_P307847 Kifc5c
A_51_P307840 Cst8,Cres,Cst-rs1
A_51_P261528 Usp9x,Faf1,Dffrx,FAF-X,5730589N07Rik
A_51_P381511 Mocs1,3110045D15Rik
A_51_P454008 Lbp,Ly88
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A_51_P307864 1700019N19Rik
A_51_P240760 B3gnt3,2210008L19Rik
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A_51_P105408 5430428G01Rik
A_51_P195244 Mfap4,1110007F23Rik
A_51_P302566 Maob,6330414K01Rik
A_51_P432380 Aplp1
A_51_P162984 Prm1,Prm-1
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A_51_P416556 Ssr3,TRAPG,0610038P07Rik
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A_51_P254608 Pknox2,Prep2,D230005H23Rik
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A_51_P156222 A930017N06Rik
A_51_P133562 Serpina6,Cbg
A_51_P478353 Fer1l3,2310004N10Rik,2310051D19Rik,E030042N2
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A_51_P302520 Myom1,D430047A17Rik
A_51_P519756 Rusc1,NESCA,2210403N08Rik
A_51_P156232 Lalba
A_51_P469522 Hs2st1,Hs2st,mKIAA0448
A_51_P114049 1110006I15Rik
A_51_P339724 2310079G19Rik
A_51_P156243 Eps15,2410112D09Rik
A_51_P302576 Spn,Cd43,Ly48,Galgp,Ly-48,A630014B01Rik
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A_51_P317673 8030466O12Rik,MGC31213
A_51_P302538 Pxx,D14Ert813e,C230080L11Rik
A_51_P114002 Gstm7,Cd203c,0610005A07Rik
A_51_P372576 Centd3,Arap3,Drag1,KIAA4097,mKIAA4097,E03000
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A_51_P317618 D15ErtD785e,MGC6766,0610010J20Rik,2610524G0
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A_51_P224505 Bag1,Rap46
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A_51_P372550 Cgref1,CGR11,1110004G24Rik
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A_51_P321834 Olfr522,MOR103-5
A_51_P487623 Smap,Slap,KIAA1601,mKIAA1601,D330001L02Rik
A_51_P466964 1700012G19Rik,MGC103027
A_51_P472751 Ei24,PIG8
A_51_P401828 Mug2
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A_51_P224555 2900090M10Rik,B230311F11
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A_51_P238933 Nudc,SIG-92,Silg92
A_51_P224575 Gnpat,DAPAT,DHAPAT,D1ErtD819e
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A_51_P321820 Sumf2,2610040F05Rik
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A_51_P415531 Slco5a1,4732454B15,A630033C23Rik
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A_51_P224564 Ppm1f,CaMKPase,MGC25978,mKIAA0015,1110021
A_51_P475244 Hemk1,2310008M14Rik
A_51_P268053 Map4k4,HGK,Nik
A_51_P257151 Adipor2,ADCR2,Paqr2,D6Ucla1e,1110001114Rik
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A_51_P345538 5730522E02Rik
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A_51_P230405 Itga3,CD49C
A_51_P297552 Thrap5,95kDa,Trap95,A630083L04
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A_51_P439179 Olfr586,MOR8-2,MOR8-7

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A_51_P293059 2210412D01Rik
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A_51_P440904 Mrpl30,Rpml28,MRP-L28,2310001L22Rik
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A_51_P302675 Rps26
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A_51_P284503 1110032D16Rik
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A_51_P156135 D3ErtD789e,4921507O14Rik
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A_51_P114372 Mus81,1200008A18Rik
A_51_P321743 A930038D23Rik
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A_51_P355172 Ifrd1,PC4,Ifnl,Tis7
A_51_P133229 Sulf2,mKIAA1247,2010004N24Rik
A_51_P321734 Bhmt2,D13Ucla2
A_51_P216990 Olfr665,MOR34-7
A_51_P266211 Snrk,MGC28970,mKIAA0096,E030034B15,2010012
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A_51_P224054 Ube2h,Ubc8,E2-20K,1500009C23Rik
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A_51_P156158 Phlpp,SCOP,Plekhe1,mKIAA0606
A_51_P161413 Usp30,D5ErtD483e,6330590F17Rik
A_51_P266224 Limd1,D9ErtD192e
A_51_P401958 Taldo1
A_51_P453256 AK047372
A_51_P161429 Snx11,4933439F10Rik,A930041K09Rik
A_51_P372418 3110006P09Rik
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A_51_P519460 4930524B15Rik
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A_51_P161463 1700039D13Rik
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A_51_P372456 2810046M22Rik
A_51_P415475 Dok4
A_51_P133245 BC026996
A_51_P173114 Pcdh21,Prcad
A_51_P317321 A930037G23Rik,HOM-TES-103,4733401N06Rik
A_51_P114336 Zzef1,mKIAA0399,8430405D05Rik,C130099L13Rik
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A_51_P207540 Olfr969,MOR171-7
A_51_P302181 Tnk1,Kos1
A_51_P391276 Gdi1,GDIA,GDIalpha,MGC21593
A_51_P368870 Olfr1302,MOR248-3
A_51_P239456 Polr2e,RPB5,XAP4,25kDa,2410021N14Rik
A_51_P257010 Olfr710,MOR260-3
A_51_P207550 Pla2g12a,GXII,Rossy,Pla2g12,mGXII-1,MGC58884,1

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A_51_P187262 Mmp25,MMP20,MT6-MMP,Leukolysin,F730048C11F
A_51_P156196 Olfr604,MOR32-2
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A_51_P224064 8230402K04Rik
A_51_P368855 H2-Ke2,Ke-2,H-2Ke2
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A_51_P368823 Grb7,KIAA4028,MGC78181,mKIAA4028
A_51_P463994 A730008L03Rik,Cobra1,Nelf-b
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A_51_P345896 Pafah2,2310074E22Rik
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A_51_P321794 Pgl3,Plgs,1110030K05Rik
A_51_P430082 Tst,Rhodanese
A_51_P516896 Ppp2ca
A_51_P158277 V1rh4
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A_51_P368804 Ankra2,Ankra,MGC90650,1110004M18Rik
A_51_P114385 Rbbp7,mRbAp46
A_51_P433778 Tert,TP2,TRT,EST2,TCS1
A_51_P230987 Pi4k2b,2610042N09Rik,4933409G22Rik
A_51_P416074 Ryr1,Ryr,skrr
A_51_P211600 D5Ertd606e,Sept11,6230410I01Rik
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A_51_P433769 Sgtb,MGC27660,C630001O05Rik
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A_51_P138923 Peg12,Frat3
A_51_P307232 Kifap3,KAP3,SMAP
A_51_P472405 Ndufa1,MWFE,1810049F12Rik
A_51_P207591 Anxa8,Anx8,MGC40628
A_51_P211616 Slc27a6,FATP6,FACVL2,VLCS-H1,4732438L20Rik
A_51_P268754 E430004N04Rik,A430108D01
A_51_P170059 Sprrl10,1110059L13Rik
A_51_P170050 Zfp248,MGC100019,2810037F07Rik,E130106N01Ri
A_51_P416059 Dirc2,RCC4,MGC47126
A_51_P158210 Mcm2,BM28,CDCL1,Mcnd2,mKIAA0030
A_51_P454257 C330002D13Rik
A_51_P475155 Ibrdc3,4930534K13Rik,4930555L03Rik
A_51_P433753 ENSMUST00000060780
A_51_P268709 Mc4r
A_51_P516808 Snx4,1810036H14Rik
A_51_P317391 AK038197
A_51_P439085 2310016C08Rik,MGC103106
A_51_P240501 4930583H14Rik,Osap
A_51_P454217 Nfkb2,Iyt,p49,p52,p50B,p49/p100,NF-kappaB2
A_51_P463912 Odz1,Odz2,TCAP-1,Ten-m1
A_51_P268748 2610203C20Rik
A_51_P331318 Bcl2l2,c98,bclw,Bcl-w,Gtrgal2,Gtrosa41

A_51_P494361 Mbnl2,MBLL,KIAA4072,mKIAA4072,1110002M11Rik
A_51_P368894 Onecut1,Oc1,Hnf6,Hfh12,D9Ert423e
A_51_P416046 Trim41
A_51_P433789 E030025L21Rik,Gm888,BCMP11
A_51_P331328 Gpihbp1,GPI-HBP1,1110002J19Rik
A_51_P475138 Duox1,Duox2,LNOX1,LNOX2,THOX1,THOX2,NOXE
A_51_P454234 1300018I17Rik,5DOS1,2410004N05Rik
A_51_P170008 Napg,SNARE,2400003O04Rik
A_51_P247883 Col5a2,D230017N05
A_51_P345836 Prkra,RAX,Pact
A_51_P516861 Rapgef5,GFR,Mrgef,mmr-gef,mKIAA0277,4932413N
A_51_P454207 Ncoa3,ACTR,AIB1,RAC3,Src3,TRAM1,p/CIP,TRAM-
A_51_P516850 Rbbp5,C330016J05,4933411J24Rik
A_51_P345867 Hsf4,mHSF4
A_51_P331363 4930438O05Rik,3830422A13Rik,4831423D23Rik,57
A_51_P335321 Gnas,P1,P2,P3,GSP,Gsa,POH,GPSA,Nesp,Gnas1,N
A_51_P246104 1700019M22Rik
A_51_P145785 Ambp,UTI,ASPI,ltil,HI-30,Intin4
A_51_P516870 ltm2a,E25,ltm2
A_51_P240508 Olfr578,MOR7-1
A_51_P182055 Cnot4,Not4,Not4h,Not4hp
A_51_P191865 Lama2,dy,mer,merosin,KIAA4087,mKIAA4087,58304
A_51_P284898 Smarcb1,Ini1,Snf5,Baf47,SNF5/INI1
A_51_P240594 Zfp7,KRAB7,Zfp-7,Zfp65,Zfp80,KRAB20,Krox-2,MGC
A_51_P246146 2310037I24Rik,MGC101985,MGC102368,B930009E
A_51_P424999 lct1,1110001A02Rik,1110002E03Rik
A_51_P424990 B230308G19Rik
A_51_P326942 Nsdhl,Bpa,Str,H105E3,XAP104
A_51_P117995 PfkM,Pfka,PFK-M
A_51_P418765 Sephs2,Sps2,Ysg3
A_51_P230926 Btbd14b,Nac1,2010001H03Rik,4930511N13Rik
A_51_P297470 2310005N03Rik
A_51_P254471 Birc2,Api1,Api2,IAP1,IAP2,MIHB,MIHC,Birc3,HIAP1,
A_51_P326994 2810048G17Rik
A_51_P416080 Stxbp6,MGC30948
A_51_P261713 Slco1c1,Oatp2,OATP-F,MGC90655,Slc21a14
A_51_P371078 BC024683,MGC30464,MGC56792,mKIAA1089
A_51_P230977 Cdc42
A_51_P284045 9930104L06Rik
A_51_P509808 Fnbp4,FBP30,Fnbp30
A_51_P402974 BC026389
A_51_P230942 Runx2,Cbf,LS3,AML3,Osf2,Cbfa1,Cbfa-1,PEBP2aA,
A_51_P221702 1700007N18Rik,NYD-SP17
A_51_P117933 Tcrb-J,5830405F06Rik
A_51_P424938 Olfr657,MOR40-13
A_51_P146753 Csf2rb2,Il3r,AIC2A,Il3rb,Il3rb2,Csfgrmb
A_51_P326932 A230083H22Rik,KIAA0367,mKIAA0367,6330414G0:
A_51_P487345 Pdcd7,ES18
A_51_P329975 Ninj2
A_51_P132101 Olfr958,MOR224-9
A_51_P507778 4632417N05Rik
A_51_P302749 Trpv2,GRC,Vrl1

A_51_P329928 Phlda3,Tih1
A_51_P117952 Hspa1a,70kDa,Hsp72,Hsp70-3,Hsp70.3
A_51_P170090 Olfr1499,MOR211-2
A_51_P284026 1700082M22Rik
A_51_P439019 1700024P04Rik
A_51_P509824 A330033J07Rik
A_51_P149531 Olfr126,MOR218-1
A_51_P359002 AK037125
A_51_P453167 0710008K08Rik,2810407E01Rik
A_51_P125467 Igf2r,CD222,CI-MPR,Mpr300,M6P/IGF2R
A_51_P453111 Hexb
A_51_P149501 Adam7,EAP1,EAPI
A_51_P519108 6330439K17Rik
A_51_P117924 Hoxa9,D6a9,Hox-1.7
A_51_P400490 Arhgef18,D030053O22Rik
A_51_P470989 Paip1
A_51_P355202 Tcf20,SPBP,mKIAA0292,2810438H08Rik
A_51_P149534 5730502D15Rik
A_51_P454286 Myo5c,C330029I24,9130003O20Rik
A_51_P424959 Bcl6b,Bazf
A_51_P207601 Aqp5
A_51_P338197 Mthfs,1110034I12Rik,2310020H23Rik
A_51_P372312 Mrpl54,D10Sut1e,0610008M19Rik
A_51_P114222 Il2,Il-2,cytokine
A_51_P480904 Blmh,BH,BMH,MGC36899,MGC37104,MGC39026
A_51_P424905 C130073D16Rik
A_51_P453149 Hspa2,70kDa,HSP70.2,HSP70A2,Hsp70-2,MGC779
A_51_P207636 Atp5b
A_51_P161737 A930008A22Rik,KIAA1201,mKIAA1201,3222402H23Rik
A_51_P383822 Evi2b,Evi2,Evi-2,MGC28913
A_51_P114274 4933434G05Rik
A_51_P387400 Serpina12,4632419J12Rik
A_51_P133737 3300001P08Rik,Luc7a
A_51_P402435 Trap1,HSP75,2410002K23Rik
A_51_P207622 Fmod,SLRR2E
A_51_P507709 Neu4,9330166I04
A_51_P317076 2010315L10Rik,Ed2,mED2,5730403H22Rik
A_51_P302738 Upp1,Up,Upp,UPase,UdRPase
A_51_P372372 Olfr420,MOR105-10
A_51_P507792 Tubgcp6,mKIAA1669,D430023H11
A_51_P239766 Plcd1
A_51_P391777 Lin7a,Veli,Veli1,LIN-7A,MALS-1,TIP-33
A_51_P480928 Zfyve16,mKIAA0305,B130031L15,B130024H06Rik
A_51_P317031 9030408N13Rik
A_51_P149562 Apbb2,TR2L,Zfra,Rirl1,2310007D03Rik
A_51_P402403 V1ri3
A_51_P460230 1700011F14Rik,MGC58650
A_51_P192751 Mrpl14,Rpml32,MRP-L32,1110006I11Rik
A_51_P355267 Oas1g,L2,Mmu-L,Oas1a,Oias1,Mmu-L2,Oias-1
A_51_P353895 Sult1c2,ST1C1,Sult1c1,1810008N17Rik
A_51_P453158 B830045N13Rik,MGC40674
A_51_P161793 Chrn3,Acrb3,5730417K16Rik

A_51_P402458 Anxa7,Anx7,synexin
A_51_P114214 Idua,6030426D08
A_51_P307150 Indo,Ido
A_51_P453197 4933413B09Rik,1700028G04Rik
A_51_P447614 Plekhh2,E030001K05
A_51_P368950 Phka2,k,Phk,D330034O08,6330505C01Rik
A_51_P239777 Al853363
A_51_P224771 4732495E13Rik,2610507A11
A_51_P257371 Itgb3bp,4930471O16Rik
A_51_P239737 Pigr
A_51_P391727 Slc3a1,D2H,NBAT,NTAA,RBAT
A_51_P211566 Hpca
A_51_P507787 Gnefr,Gef,Gnef,DelGEF
A_51_P239750 Inhba
A_51_P366770 Rims1,Rim,RIM1,RIM1a,Serg1,Rab3ip1,KIAA0340,r
A_51_P402443 Olfr836,MOR152-3
A_51_P368903 Anapc13,SWM1,APC13,1810004D07Rik
A_51_P383884 4921508D12Rik
A_51_P480982 Glo1,GLY1,Qglo,Glo-1,Glo-1r,Glo-1s,Glo1-r,Glo1-s,0
A_51_P485828 Arid3a,Dri1,Bright
A_51_P120717 Lmnbl
A_51_P159902 AU042671,mKIAA0614,A130010L24
A_51_P416546 Ctsg
A_51_P114287 Cpsf6,CFIM,CFIM68,HPBRIL-4,HPBRIL-7,4733401N1
A_51_P402484 Ppp1r9b,MGC38940
A_51_P207693 D430041B17
A_51_P133792 Lmo6,Sfc16
A_51_P402496 Atp5a1,Atpm,D18Ertd206e
A_51_P336910 0910001K20Rik
A_51_P485800 Dgcr2,Idd,Lan,Dgsc,DGS-C,Sez12,9930034O06Rik
A_51_P161786 A830091I15Rik,Sarm1
A_51_P372393 Angpt4,Ang3,Agpt4
A_51_P433650 V1rh18
A_51_P211506 Muc20,MGC31081
A_51_P114297 Kifc3
A_51_P494006 NM_134123
A_51_P360896 4930556P03Rik
A_51_P240077 1700092C17Rik
A_51_P416521 Tmcc3,Tmcc1,MGC30586,C630016B22Rik
A_51_P230634 Phactr3,H17739,SCAPIN1,KIAA4224,mKIAA4224,15
A_51_P268234 2010004A03Rik
A_51_P360880 5730601F06Rik,5330440G10Rik
A_51_P494037 Dgkg,90kDa,Dagk3,KIAA4131,mKIAA4131,2900055|
A_51_P310307 Arhgap23,4933428G20Rik
A_51_P305811 1700021A07Rik
A_51_P475076 Vbp1
A_51_P211526 1500010J02Rik
A_51_P360840 Zfpm1,FOG,Fog1
A_51_P310348 Vax2
A_51_P296090 BC021611,MGC37904
A_51_P331003 Sema4g
A_51_P494078 lsp2,mISP-2

A_51_P485870 BC027072,MGC38716
A_51_P384879 Mdh2,MDH,Mor1,Mdh-2,Mor-1
A_51_P183283 Fmr2,Oxh,Ox19
A_51_P416509 Hist1h1a,H1a,H1.1,H1f1,H1var3
A_51_P310333 Papolb,Papt,Tpap,Paplob
A_51_P293218 2700050F09Rik,Pan3,MGC99847,MGC102350
A_51_P293269 Pde7a
A_51_P138876 Mapkap1,D230039K05Rik
A_51_P360865 D030051N19Rik,mKIAA1736,A130023A14,2310079I
A_51_P331028 5133400D11Rik,Hoj1,mHoj-1
A_51_P409496 Arhgap11a,mKIAA0013,GAP (1-12),6530401L14Rik
A_51_P485895 Lcn3,Vnsp1
A_51_P331021 1700013G20Rik
A_51_P485899 Sfrs1,1110054N12Rik,5730507C05Rik,6330415C05I
A_51_P307954 Epas1,HLF,MOP2,HIF-2alpha
A_51_P331059 Tex15,2210014E14Rik
A_51_P409482 6030465E24Rik,A330015I11,C530005A01Rik
A_51_P519696 Mras
A_51_P517388 1100001H23Rik
A_51_P331098 4930442E04Rik
A_51_P150802 Mpv17,Tg.Mpv17
A_51_P307944 Edg6,S1P4,lpC1
A_51_P310387 X99300
A_51_P126437 Enc1,Nrpb,PIG10
A_51_P156263 Zfp511,2410004P19Rik
A_51_P331044 Il20,Zcyto10
A_51_P302527 Nek1,kat,D8ErtD790e
A_51_P307979 Etv1,ER81,Etsrp81
A_51_P432229 4930583C14Rik
A_51_P240019 Gyg1
A_51_P126469 2810401C16Rik
A_51_P360836 D18Wsu98e
A_51_P284318 Mta3,mKIAA1266,1110002J22Rik
A_51_P105520 Nomo1,pM5,Nomo,MGC37454,MGC37848,D7ErtD15
A_51_P519632 Olfr661,MOR40-4
A_51_P198114 Lincr,2010300P06Rik
A_51_P307964 Krt1-13,K13,CK13,KRT13,Krt-1.13
A_51_P105554 Crp
A_51_P211584 Golgb1,KIAA4151,mKIAA4151,4930428L02Rik,6330
A_51_P307917 Al839735
A_51_P363657 Stk40,2310004N11Rik
A_51_P331090 Al661311,mKIAA0590
A_51_P363681 Mfap5,MAGP-2
A_51_P355753 Hic1,HIC-1
A_51_P156740 Nt5e,NT,Nt5,eNT,CD73,2210401F01Rik
A_51_P302890 1700013F07Rik
A_51_P409408 Nkx3-1,Bax,NKX3A,NKX3.1,Nkx-3.1,bagpipe
A_51_P323701 Olfr702,MOR260-4
A_51_P363668 Rnf12,Ha1r,RLIM
A_51_P254986 Serf1,4F5,m4F5,Msmac1
A_51_P183239 2410150O07Rik
A_51_P331082 Nrip2,NIX1

A_51_P337708 Ovgp1,OGP,MOGP,muc9,Chit5,120kDa
A_51_P126476 Myo1b,myosin-1b
A_51_P183205 1700021K19Rik,mKIAA0226,5330403K09
A_51_P133478 1500002K03Rik
A_51_P355765 Slit3,Slit2
A_51_P105589 Dci,eci
A_51_P198179 Tor3a,Adir
A_51_P321984 Al315037
A_51_P171347 Shprh,E130018M05,2610103K11Rik,D230017O13Ri
A_51_P419584 Osbp16,ORP-6,KIAA4128,MGC30542,mKIAA4128
A_51_P480499 Noc4
A_51_P133456 Olfr466,MOR209-1
A_51_P198155 5033413D22Rik
A_51_P296036 Nrbp2,MGC12117,MGC18994
A_51_P149004 Nkx2-6,Tix,Nkx2.6,tinman,Nkx-2.6
A_51_P254912 Rfc2,40kDa,2610008M13Rik
A_51_P453043 Aacs,SUR5,2210408B16Rik
A_51_P161257 3110082D06Rik
A_51_P482233 Slc39a9,2010002A02Rik,2610511I23Rik,4833420E2
A_51_P266024 MGC7717
A_51_P138895 BC027663,Gm586
A_51_P186092 Mlst2,FAR1,2600011M19Rik,3732409C05Rik
A_51_P156708 Apc2,APCL
A_51_P133445 2310003C23Rik
A_51_P384894 Stfa1,Stf1
A_51_P342200 2310039D24Rik
A_51_P453088 1810063B05Rik
A_51_P302823 Cib2,2810434I23Rik
A_51_P145993 Ssu72,1190002E22Rik,1500011L16Rik,2610101M12
A_51_P207763 Serpinb3b,Scca2-rs,Scca2-rs1
A_51_P421650 1700120E14Rik
A_51_P187093 Mrps33,Gdap3,PTD003,CGI-139,MRP-S33,MGC106
A_51_P416408 Tmc4
A_51_P266077 1700012A16Rik
A_51_P419103 2310007L24Rik
A_51_P453079 Usp9y,Dffry,Fafl2
A_51_P125779 Serpina3a,4933406L18Rik
A_51_P161248 Scg3,Chgd,SgIII,1B1075
A_51_P125771 Slc25a27,Ucp4,3632410G24Rik,9430092A03Rik,D5:
A_51_P355735 Fgf20
A_51_P302841 Gabpb2,Gabpb2-1,5830427M07,9430006E19Rik
A_51_P472671 Uqcrb,QPC,QP-C,UQBC,UQBP,UQPC,MGC35665,M
A_51_P402775 Anapc1,Apc1,Mcpr,tsg24,2610021O03Rik
A_51_P133428 Cacng6,2310033H20Rik
A_51_P268193 Slc7a10,Asc-1,D7Bwg0847e
A_51_P161207 Rfx3,MRF3,C230093O12Rik
A_51_P321930 0610009B14Rik
A_51_P239699 Mll5,1810033J14Rik,9530077A04Rik,D230038D11R
A_51_P302831 Dbccr1,BRINP,Brinp1
A_51_P133422 4833426I10Rik
A_51_P480408 Itpr2,lp3r2,Itpr5,InsP3R-2,InsP3R-5
A_51_P207718 5830428H23Rik

A_51_P254954 Sca2,ATX2,9630045M23Rik
A_51_P224257 Anapc5,Anpc5,2510006G12Rik
A_51_P421664 2310075C12Rik,MGC102366
A_51_P224216 Atp5j2,1110019H14Rik
A_51_P433157 Chd9,AD013,mKIAA0308,1810014J18Rik,9030205D
A_51_P211467 Gpr50,H9
A_51_P120461 Mina,1810047J07Rik,2410057H13Rik,3830408E23R
A_51_P321921 Pdhb,2610103L06Rik
A_51_P268186 8430419L09Rik,KIAA1467,mKIAA1467
A_51_P281246 3110002L15Rik,Tsp57,mKIAA0092,4921510P06Rik,
A_51_P438349 Kif1c,Ltxs1,D11Bwg1349e,B430105J22Rik
A_51_P224263 AL024210
A_51_P224227 Rlf,9230110M18Rik
A_51_P433141 Tro,Tnn,Trol,Maged3,Maged3l,magphinin
A_51_P480427 Olfr430,MOR105-5P
A_51_P302852 Trim46,MGC90834
A_51_P156781 Zfp260,Ozrf1,Zfp63
A_51_P302856 Ugt2b37,0610033E06Rik
A_51_P239673 Hprt1,Hprt,HPGRT,MGC103149
A_51_P421680 1110003H10Rik
A_51_P336874 Atp6v0e,M9.2,Atp6k
A_51_P192639 Olfr1495,MOR266-9
A_51_P433172 ORF18,MTDCF1,D4Ert20e,1110001M20Rik,31100
A_51_P494589 Rab6ip1,ORF37,mKIAA1091,1500012B19Rik
A_51_P472630 H2afv,H2av,C530002L11Rik
A_51_P207781 Olfr1297,MOR248-4
A_51_P458018 Hemt1,HemT,1700057K19Rik
A_51_P268154 Acsl4,ACS4,Facl4,Lacs4,9430020A05Rik
A_51_P281255 Nasp,Epcs32,5033430J04Rik
A_51_P402760 Pla2g4a,cPLA2,Pla2g4
A_51_P488953 Pcdha6,CNR,Cnr2,Cnr2
A_51_P494597 BC013712,ICB-1
A_51_P488960 AK050994
A_51_P211458 2700078E11Rik,2810417M16Rik
A_51_P257258 Cpox,CPX,Cpo,HCP
A_51_P416660 Cdc14b,CDC14B3,Cdc14B1,2810432N10Rik,A5300
A_51_P338031 Trpm1,Mlsn1,4732499L03Rik
A_51_P433127 Rad52b,2410008M22Rik
A_51_P338040 AW146242
A_51_P389714 AI481772
A_51_P268145 Nat6,Fus2,Fus 2,fusion 2
A_51_P321965 Ssna1,N14,NA14,1110003H09Rik,1190004J23Rik
A_51_P416647 Klk13,Egfbp2,mGk-13,Egfbp-2,Klk1b26
A_51_P348792 Opn5,PGR12,opsin,Gpr136,TMEM13,Neuropsin
A_51_P372294 Upk1a,Upk1,Tspan21,1110031P12Rik
A_51_P281273 Olfr703,MOR283-7
A_51_P494567 BC005624,MGC11690
A_51_P494561 Il1f10
A_51_P293575 4930402H24Rik,2810487F15Rik
A_51_P240374 Col13a1
A_51_P384968 Ngfr,p75,LNGFR,p75NTR,p75NGFR,Tnfrsf16
A_51_P211436 Gpr83,Gir,RP39,RP82,Gpr72,RP105

A_51_P292906 E2f5,E2F-5
A_51_P338067 Mtm1,Mtm,KIAA4176,mKIAA4176
A_51_P211403 Gcgr,GR
A_51_P268167 D14Abb1e
A_51_P257282 4921517B04Rik,C630030B20,1110049N09Rik
A_51_P238866 V1rh20
A_51_P240363 Zfp422,KOX15,Krox25,Krox26,Krox-26,Krox-25-2,29
A_51_P151983 Ncoa4,Rfg,MGC103382,4432406M01Rik
A_51_P147207 Prdx2,TR,PRP,TPx,TSA,TDX1,NkefB,PrxII,TPx-B,Tc
A_51_P485985 Mbnl3,CHCR,MBLX,MBXL,MBLX39,A530038J18Rik
A_51_P331570 Trib3,Nipk,SINK,Trb3,lfd2,SKIP3,TRB-3
A_51_P182604 Foxk1,Mnf,A630048H08Rik,C330006K01Rik
A_51_P384946 Ndufa2,B8,C1-B8
A_51_P416625 1810059G22Rik,0610031L02Rik,1500003K22Rik
A_51_P257292 Pcdhb5,PcdhbE,Pcdhb4A
A_51_P211416 Brs3,BRS-3
A_51_P147215 3300002I08Rik,2900016H11Rik
A_51_P268103 Twistnb,D16Wsu83e,2410173G11,2810024J17Rik
A_51_P445417 4930571C24Rik
A_51_P433194 Bcas1,NABC1,2210416M21Rik,9030223A09Rik
A_51_P126525 D230025D16Rik,Lin10,MGC6480
A_51_P310254 3110048E14Rik,C230014M12Rik
A_51_P293538 Ppp1r1a,l-1,0610038N18Rik
A_51_P360963 MbtD1,hemp
A_51_P246339 Rfc5,36.5kDa,MGC113787,2610020K06Rik,261020G
A_51_P292943 EII,Men,EII1
A_51_P240329 2610030H06Rik
A_51_P331525 Lats2,4932411G09Rik
A_51_P348764 Fastk,610011K02Rik,0610011K02Rik
A_51_P384936 5330420D20Rik,Ddo,5730402C02Rik
A_51_P221428 Cbx6
A_51_P384901 Gdf8,Cmpt,Mstn,compact
A_51_P445422 Olfr695,MOR283-6
A_51_P331507 Idh2,IDPm,Idh-2,E430004F23
A_51_P211491 Gusb,g,Gur,Gus,Gut,asd,Gus-r,Gus-s,Gus-t,Gus-u
A_51_P496273 Elf2,EU32,NERF,NERF-2,NERF-1A,NERF-1B,MGC
A_51_P261164 F2rl2,PAR3,F730031A08
A_51_P519385 Sacm1l,SAC1,Sac1p,mKIAA0851
A_51_P105068 2310010M24Rik
A_51_P497280 2810427I04Rik,D8Ertd590e
A_51_P310292 AK054316
A_51_P147265 Trpc2,trp2,Trrp2,mTrp2,TRPC2a,TRPC2b,smTRPC2
A_51_P310298 Lrrc5,A930019F03,4930525N13Rik
A_51_P416689 Ext1
A_51_P105078 S100a4,42a,18A2,Capl,FSp1,Mts1,pk9a,PeL98,meta
A_51_P151972 Cops6,Sgn3,VIP/MOV34
A_51_P519354 Ryr3,C230090H21
A_51_P445487 2410066E13Rik,B230212L03Rik
A_51_P281384 2410187C16Rik
A_51_P371279 Icos,H4,AILIM,Ly115
A_51_P281380 Tspan5,NET-4,Tm4sf9,2810455A09Rik,4930505M0
A_51_P519364 MGC27770

A_51_P224282 Capn12
A_51_P519369 Agtpbp1,pcd,Nna1,nmf243,MGC90651,mKIAA1035,
A_51_P415126 Tgfa,wa1,wa-1
A_51_P147284 9630044O09Rik
A_51_P210310 LOC381765
A_51_P445468 Olfr1472,MOR202-16
A_51_P372172 Plod3,LH3
A_51_P507533 D1Erttd396e,D1Erttd654e,2610307I21Rik,5730410O1
A_51_P149714 Ms4a6d,1110058E16Rik
A_51_P198053 Spinlw1,Eppin,1700024E17Rik
A_51_P245202 4930544L04Rik
A_51_P240384 Trps1,MGC46754,D15Erttd586e
A_51_P460676 Hspa4,70kDa,APG-2,Hsp110,Hsp70RY,KIAA4025,m
A_51_P400645 Galnt13,A230002A12,A230020F20
A_51_P192589 1810003N24Rik
A_51_P453715 2410166I05Rik
A_51_P372156 4930563E22Rik
A_51_P409559 Camk4
A_51_P519301 Il17f,IL-17F
A_51_P421724 St6galnac5,Siat7e
A_51_P384999 2700008B19Rik
A_51_P372147 Synj2bp,ARIP2,OMP25,ARIP2a
A_51_P372141 Brp17,MR-1,Tahccp2,MNCb-5687,2210013N15Rik,2
A_51_P519314 ltpa,ltp,2010016I08Rik
A_51_P149775 Spcs1,1810004F21Rik
A_51_P519319 Cdc25a,D9Erttd393e
A_51_P198076 1810046J19Rik
A_51_P317272 2310022M17Rik
A_51_P245248 Alg12,ECM39,MGC29374
A_51_P355040 Nsun3,6720484A09Rik
A_51_P161574 Etfhdh,0610010I20Rik
A_51_P156631 2900070E19Rik,2310004O13Rik
A_51_P245263 Olfr1298,MOR248-6
A_51_P507509 Gimap1,imap,IAP38,Imap38
A_51_P453736 A330102K04Rik
A_51_P342318 Ddx55,mKIAA1595,2810021H22Rik
A_51_P402242 Trip12,Gtl6,MGC31615,1110036I07Rik,6720416K24
A_51_P149769 Aldh5a1
A_51_P111554 Sucla2,4930547K18Rik
A_51_P448091 Zfp78,Zfp77,KRAB12,MGC102644,A330079D15
A_51_P193925 2610021I23Rik
A_51_P338397 Kctd10,MGC11654
A_51_P372112 Gpc6,MGC32221,6720429C22Rik
A_51_P161503 1700063K16Rik
A_51_P421768 LOC433815
A_51_P402267 Slc17a3,Npt4
A_51_P391566 BC002189
A_51_P402261 Usp52,1200014O24Rik
A_51_P391560 Smgc,Sfc21,DXImx49e,2310010P21Rik
A_51_P193935 Mut,D230010K02Rik
A_51_P245275 H2afx,H2ax,H2A.X,Hist5-2ax
A_51_P272728 Tparl,pFT27,Tpardl

A_51_P193975 Kcng3,KV6.3,Kv10.1a,Kv10.1b
A_51_P133936 Kitl,Gb,SF,Sl,Clo,Con,Mgf,SCF,SLF,Steel,contrasted
A_51_P355301 Cyp3a11,Pcn,Cyp3a,IIIAm1,AI256190
A_51_P342387 Apoh,B2GPI,beta2-GPI,beta-2-GPI
A_51_P460004 Tnfsf9,Ly63l,4-1BBL,Cd137l,4-1BB-L
A_51_P192523 Fgf23
A_51_P257558 Ddx31,Gm997,5830444G11Rik
A_51_P494297 Atp8b1,lc,FIC1
A_51_P421780 Myo18b,Gm448,1700095B10Rik,4932408L24Rik,49:
A_51_P494293 9130024F11Rik
A_51_P363103 Blvra,Blvr,0610006A11Rik,2500001N03Rik
A_51_P192550 0610033H09Rik,Aip,Akip
A_51_P161554 Arid3b,Bdp,Dri2
A_51_P281326 Clasp2,mKIAA0627,CLASP2beta,1500004F14Rik
A_51_P133911 Olfr1043,MOR185-7
A_51_P448094 Padi6,ePAD,Padi5
A_51_P133953 AV030849
A_51_P507669 Rn18s
A_51_P156697 4930519B02Rik
A_51_P224175 2210016F16Rik
A_51_P192501 9130427A09Rik,NS3TP2,9030613F08Rik
A_51_P161542 Olfr512,MOR268-3
A_51_P133920 Lmln,5330415H22Rik
A_51_P281333 St3gal6,Siat10,St3galVI,1700023B24Rik
A_51_P158814 Marveld1,Mrvldc1,MGC62793
A_51_P402225 A530050D06Rik
A_51_P207031 Ncf1,NOXO2,Ncf-1,p47phox,p47<phox>
A_51_P391524 Arid5b,Mrf2,Desrt,Mrf2beta,Mrf2alpha,4930580B11,f
A_51_P232371 Stab1,MS-1,FEEL-1,STAB-1,mKIAA0246
A_51_P345985 Scn4a,Nav1.4
A_51_P224164 Slc26a4,Pds
A_51_P372186 Zfp467,EZI,MNCb-3350,1190001I08Rik
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A_51_P433000 2310010I16Rik,Shax3,2010012P02Rik,2210015K02I
A_51_P230892 Apeg1,BPEG,SPEG,SPEGbeta,SPEGalpha,mKIAA1
A_51_P366550 Whsc1I1
A_51_P433026 4932443D16Rik
A_51_P310135 Tcf12,HEB,ME1,REB,ALF1,HTF4,HTF-4
A_51_P494229 Galnt4
A_51_P193980 ENSMUST00000069200
A_51_P338377 2810443J12Rik
A_51_P448005 Tbc1d8,AD3,VRP,HBLP1
A_51_P517138 Mrpl2,CGI-22,Rpml14,MRP-L14
A_51_P366513 Papss2,bm,Sk2,AtpsU2,Atpsk2,code642,AI159688,1
A_51_P224192 Esrrg,ERR3,Errg,NR3B3,mKIAA0832
A_51_P207098 Strm,Strn2
A_51_P193993 Clic5,B330005L24,5730531E12Rik
A_51_P355360 Jak3
A_51_P447475 Lhfp14,KIAA4027,MGC65621,mKIAA4027,B230384L
A_51_P338317 Rhoq,Arhq,Tc10,TC10A
A_51_P187302 Tens1,TEM6,tensin3,F830010I22Rik
A_51_P161582 Ddr1,Cak,Nep,PTK3A,CD167a,6030432F18

A_51_P257583 Taf15,68kDa,Taf2n,TAFII68,2610111C21Rik
A_51_P517105 Aoah
A_51_P293474 4732419C18Rik
A_51_P496795 A330049M08Rik
A_51_P331212 Hrmt1I6,PRMT6,BB233495
A_51_P408116 Il1f9
A_51_P310109 Olfr52,IE6,ORL446,MOR185-6
A_51_P293401 Thbs1
A_51_P310100 Rnaset2,RNASE6PL,MGC107248,0610007O07Rik,4
A_51_P284930 Sall3,Sal,Msal,Salt,Spalt,Msal-1,B130022O04Rik
A_51_P317286 9430097D07Rik
A_51_P384693 Kirrel3,SST4,NEPH2,mKirre,mKIAA1867,1500010O2
A_51_P517157 Tmem43,1200015A22Rik
A_51_P331279 Arpc1b,L72,41kDa,SOP2Hs,p41-ARC,MGC102425
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A_51_P345975 Lpin3,KIAA4023,mKIAA4023,9130206L11Rik
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A_51_P433083 4930510E17Rik
A_51_P172692 Copg2
A_51_P221014 Cd47,IAP,Itgp,9130415E20Rik,B430305P08Rik
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A_51_P458538 2410011G03Rik,MGC7999,MGC107642
A_51_P494257 Olfr1449,MOR202-34
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A_51_P432460 Ppp1r14a,Cpi17,1110001M11Rik
A_51_P210510 Sparcl1,Sc1,Ecm2,hevin,mast9
A_51_P174961 F10,fX,Cf10
A_51_P456465 Cldn10,D14ErtD728e,6720456I16Rik
A_51_P105991 Tbx6,rv
A_51_P112319 Hoxd11,Hox-4.6,Hox-5.4
A_51_P485410 Hkr2,D530006B18Rik
A_51_P189594 Elov17,9130013K24Rik
A_51_P151897 1700020M16Rik
A_51_P493627 1810061M12Rik,mKIAA1055
A_51_P311319 Scrn3,Ses3,4833415E20Rik
A_51_P112308 1810011O10Rik,1110065B09Rik
A_51_P432449 Bet1,Bet-1
A_51_P485405 1700006H03Rik
A_51_P237076 Ctdsp2,OS4,OS-4,SCP2,MGC38258,D10ErtD73e
A_51_P339154 BC025446,MGC29251
A_51_P356942 D830041C10Rik,Rnf29
A_51_P505052 Gmps
A_51_P256342 Anxa4,AIV,Anx4,Xanx-4
A_51_P493602 E430027O22Rik
A_51_P292016 Uts2r,UTR,UTR2,Gpr14
A_51_P204486 1200009I06Rik,1600013K19Rik
A_51_P283818 2310046G15Rik,Spuve,Prss23,4930479H08Rik
A_51_P432420 Azi1,AZ1,Azi
A_51_P271614 Pls3,T-fimbrin
A_51_P125368 Hars,MMHRS
A_51_P219361 R3hdm
A_51_P204492 D630040G17Rik

A_51_P256369 Dot1l, Dot1, mDot1, A630076O07
A_51_P485458 Txln, MGC77972, MGC86145, 2600010N21Rik
A_51_P115093 Nup153, B130015D15Rik
A_51_P460890 Rgl2, Rlf, Rgt2, KE1.5, Rab2l
A_51_P248705 Cse1l, Cas, Xpo2, Cpts, 2610100P18Rik
A_51_P210560 9130017A15Rik, TA-PP2C
A_51_P271665 Rev3l, Rev, Rev3, Sez4
A_51_P238722 C1qr1, Ly68, AA4.1, C1qrp, 6030404G09Rik
A_51_P115098 2010109N14Rik
A_51_P118712 Dgcr6
A_51_P356916 Nup98, 4732457F17
A_51_P407528 Nscn1
A_51_P373390 Sprrl1, Eig3, Sprl1, 2300007B01Rik
A_51_P238734 2600014M03Rik, MGC113819
A_51_P356903 SrpK2, Wbp6, mSRPK2
A_51_P394484 Mllt3, Af9, D4Ertd321e, 2210011H10Rik, 2610012I03Ri
A_51_P432432 Pcdh9, Gm297, Gm1213, 1500001L12Rik, A730003J17
A_51_P271603 Hps1, ep, Hps, MGC102063, 6030422N11Rik
A_51_P219041 Rps6ka1, rsk, Rsk1, p90rsk
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A_51_P219325 Ddx28, Mddx28, 2410004K13Rik
A_51_P286995 3110001I22Rik
A_51_P219017 Defb5
A_51_P115027 Afg3l2, 2310036I02Rik
A_51_P485499 Irf3, MGC91046, C920001K05Rik
A_51_P204454 Skp2, FBXL1, MGC116668
A_51_P452189 Lyar
A_51_P181891 2600011E07Rik
A_51_P256323 Lpin2, 2610511G02Rik
A_51_P125355 Maa, MGC27811, 1110061B18Rik
A_51_P219312 Ttn, mdm, shru, 1100001C23Rik, 2310036G12Rik, 2310036G12Rik, 2310036G12Rik
A_51_P414072 Prom1, Prom, AC133, CD133, Proml1, 4932416E19Rik
A_51_P219064 Hrmt1l1, Prmt2
A_51_P266940 2810002I04Rik
A_51_P189544 ENSMUST00000061566
A_51_P193764 2310057N15Rik, Krtap13-1
A_51_P266949 5730537D05Rik, 1110057I03Rik
A_51_P181865 Tmem38b, D4Ertd89e, 1600017F22Rik
A_51_P115005 Edn1, ET-1, preproET
A_51_P157288 Ifna11, IFN-[a]11
A_51_P366680 Fate1, 9230118O15Rik
A_51_P292097 Ubc, TI-225, 2700054O04Rik
A_51_P238786 Mcl1
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A_51_P204402 Shcbp1, mPAL
A_51_P143893 TnfaiP9, Tiarp, 1110021O17Rik
A_51_P344249 Apbb1, Rir, Fe65
A_51_P437050 Heg1, Gm629, 5530401I02Rik, 9530025L16Rik
A_51_P238796 2310051M13Rik
A_51_P266958 Nr1i2, PXR, PXR1, mPXR, PXR.1, PXR.2
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A_51_P140141 1500019G21Rik,Hspbp1
A_51_P148573 Cdv1,CDV-1,CDV-1R
A_51_P286935 Cd200r3,mCD200RLb,4733401118Rik,4833409J19R
A_51_P172589 1200007C13Rik
A_51_P266977 Znr4,spzn,Ssrzf1
A_51_P402868 Pla2g3,9130003P18Rik
A_51_P245875 Sash1,mKIAA0790,1100001C18Rik,2500002E12Rik
A_51_P373369 Vdrip,MED4,Vdirp,DRIP36,TRAP36,HSPC126,2410C
A_51_P115303 TC986451
A_51_P181833 Akap9,AKAP450,mKIAA0803,5730481H23Rik
A_51_P157270 3830431G21Rik
A_51_P169671 Pap,HIP,PAP1,INGAP,Reg3b,REG-III
A_51_P172573 Sod2,MnSOD,Sod-2,MGC6144
A_51_P373379 Csnk2b
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A_51_P191463 H2-M2,H-2M2,Thy19.4
A_51_P452109 2310040A13Rik,WDR20,4930421J07Rik
A_51_P191469 Rnf31,Paul,Flj10111
A_51_P193794 Lrp1,Lrp,A2mr,CD91
A_51_P347169 4921517D21Rik
A_51_P286946 2310007H09Rik
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A_51_P157255 Sdc2,Hspg1,Synd2,syndecan-2
A_51_P437027 Cdk4,Crk3
A_51_P452119 Lhx1,Lim1
A_51_P219396 Prh1,MP2,Prp,A-type
A_51_P108891 Nufip1,Nufip
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A_51_P383459 Smpd3,nSMase2,4631433G07Rik
A_51_P301713 A_51_P301713
A_51_P172542 Slc4a2,Ae2,B3RP
A_51_P434269 Ndufb4,0610006N12Rik,1300010H20Rik
A_51_P219385 Six5,Dmahp,MDMAHP,TrexBF
A_51_P502357 A230106N23
A_51_P219088 Alpk2,Hak
A_51_P169635 Zbtb1,Bsg2,9430077A12,C430003J21Rik
A_51_P100776 1700025J14Rik,4930429A13Rik
A_51_P172532 Nit1,ESTM30,W57327
A_51_P347144 Olfr904,MOR167-3
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A_51_P347177 Snx2,0610030A03Rik
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A_51_P157214 Hiat1
A_51_P169614 AW544865

A_51_P266987 Odf2,MMTEST29
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A_51_P502348 Tfip11,Srr1,TIP33,Tip39,2810002G02Rik
A_51_P100768 4833413E03Rik
A_51_P115376 Olfr1181,MOR225-9P
A_51_P347154 Adam18,Dtgn3,Adam27
A_51_P438200 1810057E01Rik,SIL1
A_51_P253320 Rgs3,C2pa,RGS3S,PDZ-RGS3,C2PA-RGS3,49305C
A_51_P347103 Ncam1,CD56,Ncam,E-NCAM,NCAM-1,NCAM-120,N
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A_51_P336770 Aebp1,ACLP
A_51_P108812 S100a5,S100D9
A_51_P375631 Mapkbp1,Jnkbp1,2810483F24Rik
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A_51_P347115 A830039B04Rik
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A_51_P407494 Lefty2,Ebaf,Lefta,6030463A22Rik
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A_51_P221949 Csnk1g3,3300002K07Rik
A_51_P169696 Gpr77,C5L2,E030029A11Rik
A_51_P169693 Bst2,DAMP-1,2310015I10Rik
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A_51_P438283 Il1a,Il-1a
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A_51_P237129 Tcl1
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A_51_P248444 9630046K23Rik
A_51_P310836 Olfr208,MOR182-6
A_51_P493720 Tfam,Hmgts,mtTFA,tsHMG
A_51_P210059 4933414G08
A_51_P485349 Rap1gds1,GDS1,MGC18981
A_51_P271751 Ythdf2,HGRG8,NY-REN-2,9430020E02Rik
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A_51_P485312 Ccl5,SISd,Scya5,RANTES,TCP228,MuRantes
A_51_P474151 Dgat2l4,9430062J17Rik
A_51_P240986 BC026778,Gm155,MGC30363
A_51_P407417 Adamts9,1810011L16Rik,8430403M15Rik,E030027
A_51_P493700 4933409L06Rik,6430546F08Rik

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A_51_P485361 Herc3,MGC30404,5730409F18Rik
A_51_P493709 2810474C18Rik
A_51_P432764 Ptpns1,Bit,P84,SIRP,SHP-1,CD172a,SHPS-1
A_51_P324393 Hnrpu,SAFA,Sp120,hnRNPU,hnRNP U,AA408410,A
A_51_P359636 Lgals3bp,90K,CyCAP,Ppicap,MAC-2BP
A_51_P426347 Tssk1,Tsk1,Tssk,TSK-1,Stk22a
A_51_P164539 Arvcf
A_51_P164530 Fhit,Fra14A2
A_51_P432779 4932417116Rik,Gm178
A_51_P237166 Gng5,G(y)5
A_51_P210021 ttc21a,4921538N17Rik
A_51_P248403 Birc1f,Naip6,Naip-rs4,Naip-rs4A
A_51_P164504 Apoc1
A_51_P210603 Cyp4f13,Cypf13,0610030I10Rik
A_51_P424603 Ppfia1,LIP1,LIP.1,liprin,C030014K08Rik
A_51_P397043 1810009N02Rik
A_51_P271704 Cnn3,1600014M03Rik
A_51_P426353 Ucp1,Ucp,Slc25a7
A_51_P301483 Hoxc8,Hox-3.1,D130011F21Rik
A_51_P301487 Elavl1,HUR,Hua,2410055N02Rik
A_51_P210634 Hmga1l4,Papa1,HMG1YL4,2510009I23Rik
A_51_P310896 Pfkf
A_51_P432724 Wdr31,spWD,5430402I10Rik
A_51_P210031 Smr2,MSG2
A_51_P271733 Sept8,Sepl,mKIAA0202
A_51_P281089 S100a6,2A9,PRA,5B10,Cacy,CALCYCLIN
A_51_P219173 Kcnmb1,BKbeta1
A_51_P125050 5730436H21Rik
A_51_P448741 Tnfsf10,TL2,Ly81,Trail,APO-2L
A_51_P301499 1810027L02Rik
A_51_P189631 2310067E19Rik
A_51_P193270 Mga,Mad5,C130042M01Rik,D030062C11Rik
A_51_P460570 Grin2a,NR2A,NMDAR2A
A_51_P125067 Nmi
A_51_P210611 D9Wsu20e,2010200I23Rik
A_51_P219160 4933428M09Rik
A_51_P125062 Oxct2a,Oxct,Scot,Oxct2,Scot-t1
A_51_P468876 Dixdc1,Ccd1,Ccd1CL,MGC61302,mKIAA1735,Ccd1I
A_51_P157185 9430022F06Rik,Cx39,connexin 39
A_51_P238217 Cltb,2310046E19Rik
A_51_P468807 4921528I07Rik
A_51_P356602 AK031771
A_51_P161812 Edar,dl,ED3,ED5,ED1R,EDA3,EDA-A1R,downless
A_51_P157193 Rhoj,TCL,Arhj,TC10L,1110005O19Rik
A_51_P207921 Por,CPR,CYPOR
A_51_P178347 Zfp326,ZAN75,5730470H14Rik
A_51_P219109 Il12rb1,CD212,IL-12R[b]
A_51_P373696 5930431H10
A_51_P372819 Ptgis,Cyp8,Pgi2,Pgis,Ptgi,Cyp8a1
A_51_P468824 Mfap3,2700079M14Rik
A_51_P448784 Vmp

A_51_P161830 Enpep,APA,Ly51,Ly-51,Bp-1/6C3,6030431M22Rik
A_51_P383149 C330019L16Rik
A_51_P178131 1110008I14Rik,MUC16,Gm1480
A_51_P115334 Surf4,Surf-4
A_51_P115335 Trim63,MuRF1,Rnf28
A_51_P134475 Tmepai,STAG1,N4wbp4,PMEPA1,2210418I02Rik
A_51_P118468 A330004A13Rik
A_51_P115346 P2rxl1,P2xm
A_51_P178124 Sart1
A_51_P437166 Dsc1,Dsc1a,Dsc1b
A_51_P356642 Krt1-19,K19,EndoC,Krt-1.19,MGC25344
A_51_P373629 Chrn4,Acrb4,Acrb-4
A_51_P324303 Mylip,Mir,MGC11702,9430057C20Rik
A_51_P134413 Arpp19,19kDa,Arpp12,ARPP-19
A_51_P437152 Lrp2bp,MegBP,1700113N17Rik,2310006J04Rik,493
A_51_P207962 Psm4,Af1,Mcb1
A_51_P272005 Eif3s8,110kDa,NipilA3,MGC36637,NIPIL(A3),32304C
A_51_P131879 Pcdhga4
A_51_P134468 D17H6S56E-5,G7e
A_51_P372853 Rarg,RARD,Nr1b3,MGC11555,MGC18523,RARgam
A_51_P502225 Slc22a4,Octn1
A_51_P324351 Mfi2,MTf,CD228
A_51_P356667 A930027H06Rik
A_51_P161874 Thrap6,TRAP25,1810038N03Rik,2510044J04Rik
A_51_P372826 Smox,PAO,SMO,PAOh1,B130066H01Rik
A_51_P115374 2810458H16Rik
A_51_P157171 Gas2l1,GAR22,D0Jmb1,TU-71.1,4930500E24Rik
A_51_P281525 Cplx2,921-L
A_51_P207940 B930062P21Rik
A_51_P415870 TC1012118
A_51_P372874 Dpf2,Req,ubi-d4
A_51_P502203 Ddef1,Gm140,UPLC1,MGC102639,9430088F20Rik
A_51_P301435 B3galt5,b3Galt-V,1190002B21Rik
A_51_P100625 Apon,D10Ucla2,MGC37850
A_51_P161890 Fcgrt,FcRn
A_51_P472762 D230010M03Rik
A_51_P161893 Oxr1,C7,C7B,MGC103081,2210416C20Rik
A_51_P272046 Ctnnb1,Catnb
A_51_P372895 BQ715215
A_51_P281593 Ppapdc1,1810019D05Rik,2310022A04Rik
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A_51_P415863 Il6ra,Il6r,CD126,IL-6R
A_51_P366161 Mpg,Aag,APNG,Mid1,9830006D05
A_51_P207988 Ptger4,EP4,Ptgerep4
A_51_P366138 Mertk,Eyk,Mer,Nyk
A_51_P171180 2310033K02Rik
A_51_P284125 AK076724
A_51_P148421 5830411J07Rik
A_51_P347206 Olfr569,MOR30-1
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A_51_P347214 Zc3hdc3,Kiaa0150
A_51_P253074 Chit1,2300002L19Rik

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A_51_P237289 4930533N22Rik
A_51_P288057 Olfr432,MOR123-2
A_51_P253053 1700024J04Rik
A_51_P160241 Olfr47,IB12,MOR261-9
A_51_P224903 Rgs4,ESTM48,ESTM50,AA004315
A_51_P494875 Cacng4
A_51_P147590 D5Wsu148e
A_51_P383194 Pde9a,PDE9A1
A_51_P164495 1500034J01Rik,1700095J19Rik
A_51_P474498 Tac4,PPT-C,tachykinin
A_51_P494825 Mfhas1,D8Ertd91e,2310066G09Rik
A_51_P438165 Arhgap22,RHOGAP2,MGC47316,p68RacGAP,B230
A_51_P224938 Grm6,Gm3,Gprc1f,mGluR6
A_51_P517952 Tpcn2,MGC32411,D830047E22Rik
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A_51_P310949 Ppox,Ppo
A_51_P514224 Pax4,Pax-4
A_51_P394635 4933402J24Rik
A_51_P480073 Chad,SLRR4A
A_51_P493886 Gpt2,ALT2,4631422C05Rik
A_51_P158037 Dsc2,Dsc2a,Dsc2b
A_51_P455410 Tm9sf1,MP70,1200014D02Rik
A_51_P310963 V1rc15
A_51_P310967 Amid,PRG3,5430437E11Rik,D730001110Rik
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A_51_P221802 Tpr,2610029M07Rik
A_51_P221801 Ext2
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A_51_P433834 Amigo,A,ali2,MGC25558
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A_51_P485260 Rgl1,Rgl,KIAA0959,mKIAA0959
A_51_P517928 Hspa4l,94kDa,APG-1,Osp94
A_51_P474422 Rabl4,2600013G09Rik
A_51_P237255 Kcnp2,KChIP2,KChIP2a,KChIP2b
A_51_P393826 Mak10,A330021G12Rik,A330027C19Rik,C030004C
A_51_P248999 Tulp4,Tusp,1110057P05Rik
A_51_P493816 9830134C10Rik
A_51_P433810 Npas4,Nxf,LE-PAS
A_51_P392654 Tulp1,Tulp1l
A_51_P238523 9330132O05Rik
A_51_P164400 Slc33a1,Acatn,D630022N01Rik
A_51_P485203 Nrpb,MGC6961,B230344L17Rik
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A_51_P392627 9530068E07Rik,MGC28751
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A_51_P363947 Cdkn1a,P21,CDKI,CIP1,SDI1,Waf1,mda6,CAP20,Cc
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A_51_P238576 Cyp4a14,MGC107660
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A_51_P383210 Tfpi,EPI,LACI,A630013F22Rik
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A_51_P178251 lqce,mKIAA1023,1700028P05Rik
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A_51_P355802 Rassf2,3830431H01Rik,9030412M04Rik
A_51_P134533 S100a16,S100F,DT1P1A7,2300002L21Rik
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A_51_P432563 Tlr9
A_51_P210270 Olfr502,MOR204-8
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A_51_P248674 Yars
A_51_P392705 Xpc
A_51_P394715 Cklf,C32,CKLF1,CKLF3,CKLF4,CKLF5,Cklf2,Cklf6,U
A_51_P340003 Sycp1,SCP1
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A_51_P115197 Msn
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A_51_P295312 Gabarap
A_51_P159673 Snx1

A_51_P229875 E330009J07Rik,mKIAA1147
A_51_P432534 Mynn,Mynr,SBBIZ1,2810011C24Rik
A_51_P392776 C230094A16Rik,MGC38936,2900083P10Rik
A_51_P229869 Grin2b,NR2B,Nmdar2b
A_51_P178561 Tnfrsf25,DR3,TR3,Wsl,DDR3,LARD,APO-3,TRAMP,
A_51_P368237 E030034C22Rik,MGC37121
A_51_P189405 Podxl2,PODLX2,D130074J02Rik
A_51_P432504 Pcyt2,ET,1110033E03Rik
A_51_P210210 Ly6g5c,G5c,NG33
A_51_P517430 Cd1d1,Cd1a,Cd1d,CD1.1,Ly-38
A_51_P229852 Park7,Dj1,DJ-1
A_51_P159612 Hebp2,SOUL
A_51_P432511 Lace1,CG8520,MGC107616
A_51_P271503 Il1r1,CD121a,CD121b,Il1r-1
A_51_P426150 V1re3,Vldr1
A_51_P221762 Epha4,rb,Sek,Cek8,Hek8,Sek1,Tyro1,2900005C20R
A_51_P493946 5830446M03Rik
A_51_P414188 A_51_P414188
A_51_P493940 1700023D19Rik
A_51_P238009 Loxhd1
A_51_P164762 NAP048022-1
A_51_P188046 Dncic1,DIC,IC74
A_51_P140641 BC014699,MGC25911,MGC37042
A_51_P204831 Crip1,CRHP,CRP1,Crip
A_51_P115139 Olfr1417,MOR266-2
A_51_P502492 Olfr1232,MOR233-18
A_51_P292196 Plfr,PRP,PLF-RP
A_51_P189442 Adh4,Adh2
A_51_P266847 Rnf126,2610010O19Rik
A_51_P387342 Alg5,1500026A19Rik,2600005J22Rik
A_51_P324134 Hps4,le,D4S43h,mKIAA1667,C130020P05Rik
A_51_P229816 Eif2b2,EIF2B,EIF-2Bbeta
A_51_P189451 Klrk1,Nkg2d,NKG2-D,D6H12S2489E
A_51_P277048 A_51_P277048
A_51_P134653 0610042G04Rik
A_51_P286826 4933417C16Rik
A_51_P266861 Mod1,Mdh-1,Mod-1,MGC91072,D9Ertd267e
A_51_P433989 Mapk10,JNK3,Serk2,JNK3B1,JNK3B2,p493F12,p54l
A_51_P453856 Csnk1a1,Csnk1a,MGC29354,MGC30571,2610208K
A_51_P324110 Slc39a14,fad123,MGC38539,G630015O18Rik
A_51_P134665 Trip11,AI450776,2610511G22Rik,3110031G15Rik,6l
A_51_P281734 Plxnb1,mKIAA0407,2900002G15Rik
A_51_P157362 Uhmk1,KIS,Kist,AA673513,AI449218,AU021979,473
A_51_P509760 Actr1a,Arp1,alpha-Arp1
A_51_P314186 Syne1,8B,CPG2,Myne1,SYNE-1,SYNE-1B,KIAA175
A_51_P368285 3110032G18Rik,cfm,cfm2
A_51_P115178 Scara3,CSR,APC7,CSR1,MSLR1,MSRL1,C130058M
A_51_P248687 Hormad2,4930529M09Rik
A_51_P324120 B230369L08Rik,SUN2,Unc84b,C030011B15
A_51_P301621 8430422M09Rik
A_51_P502456 TC964720
A_51_P272227 1700024B07Rik

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A_51_P453849 Usp26
A_51_P115159 2310056P07Rik
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A_51_P453810 Phr1,Pam,C130061D10Rik
A_51_P178585 Dnajc5,Csp,2610314I24Rik
A_51_P286878 4932702F08Rik
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A_51_P324161 5730521P14Rik
A_51_P100470 D19Erttd386e,GIDRP86,C10orf28,1700036B12Rik
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A_51_P191564 2410127E18Rik,KIAA0265,mKIAA0265
A_51_P514070 3000002B06Rik,Gm331,MEGF10
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A_51_P160453 Map2k5,MEK5,Mapkk5,Prkmk5
A_51_P314111 Psip1,Psip2,Ledgfa,Ledgfb
A_51_P502422 Them2,0610006O17Rik
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A_51_P245533 Tex19,2410081M02Rik
A_51_P314107 Gsdm1,Gsdm,H312E
A_51_P329460 Gja3,Cx43,Cx46,Cnx46,Gja-3
A_51_P245503 Ugt2b1,1300012D20Rik
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A_51_P400335 Terf2ip
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A_51_P331862 Svs3,9530026M05Rik
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A_51_P474688 2010003J03Rik
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A_51_P138002 Zfp26,Zfp70,mkr-3,KRAB15,Zfp-26,mszf14,mszf52,K
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A_51_P240811 Wnt8a,Wnt8d,Stra11,Wnt-8A,Wnt-8D
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A_51_P331827 4933406J04Rik
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A_51_P356525 D030016E14Rik
A_51_P173141 2410024N13Rik
A_51_P171332 Cldn19
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A_51_P415647 Tardbp,1190002A23Rik
A_51_P331831 0610039P13Rik
A_51_P340336 Pcbp3,AlphaCP-3
A_51_P240857 Chpt1,MGC28885
A_51_P384066 Al835735
A_51_P230579 1700128E19Rik
A_51_P250465 Mettl5,2810410A08Rik
A_51_P426283 Dhx30,HELG,Ddx30,2810477H02Rik,C130058C04R
A_51_P221612 Cln3
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A_51_P356594 Dsc3
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A_51_P210732 V1rg12
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A_51_P193336 Nucb2,Nefa
A_51_P356505 Ceacam12,1600031J20Rik
A_51_P383063 Olfr667,MOR34-2,MOR34-11
A_51_P426232 Omp
A_51_P115471 Apol2,APOL-II,9830006J20Rik
A_51_P502798 D930028F11Rik,C130036J11
A_51_P134776 Dusp12,VH1,mVH1,ESTM36,T-DSP4,LMW-DSP4,1'
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A_51_P193302 Mrps7,Rpms7,MRP-S7
A_51_P479618 Rdh5,RDH4,cRDH,9-cis
A_51_P317836 Cetn1,caltractin
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A_51_P324037 Ttc7b,Ttc7l1
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A_51_P366290 6430526N21Rik
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A_51_P373728 V1ri2
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A_51_P238383 B4galt4,B4galt-IV,beta4GalT-IV,9130402O08Rik
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A_51_P272106 Cirbp,Cirp
A_51_P479652 D10ErtD516e,Tp120a,mKIAA0829,2310038O07Rik,6
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A_51_P198694 Gckr,GKRP,MGC19300
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A_51_P409311 Bpil3,Gm119
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A_51_P100327 Tap1,Y3,TAP,APT1,Ham1,MTP1,PSF1,ABC17,Abcb
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A_51_P272175 Mrpl27,D11Moh47
A_51_P272172 Chrac1,YCL1,2410152E03Rik,2810406L04Rik
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A_51_P438657 A130090K04Rik
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A_51_P383093 Fytd1,2010005M05Rik,3830411L18Rik,3830421F13
A_51_P457800 Snag1
A_51_P514126 Nfya,Cbf-b,SEZ10,SEZ-10
A_51_P384314 B930007L02Rik

A_51_P384318 C1r,C1rb
A_51_P363396 Klc2,8030455F02Rik
A_51_P183732 Rpl5,U21RNA,AI315274,MGC101934
A_51_P156882 Adarb1,RED1,ADAR2,D10Bwg0447e,1700057H01R
A_51_P290826 Calca,CA,Ct,Ctn,Calc,Cgrp,CGRP1,Calc1,CGRP-1
A_51_P496462 Cast1,Cas1,MGC6840
A_51_P517680 Fntb,2010013E13Rik
A_51_P409349 Trim29,1110047J21Rik,2810431N19Rik,4732461M2
A_51_P302488 2610109H07Rik
A_51_P384306 Sacs,KIAA0730,mKIAA0730,E130115J16Rik
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A_51_P284067 4930557A04Rik
A_51_P415755 Sema6d,Sema6D-1,Sema6D-2,Sema6D-4,Sema6D-
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A_51_P438619 5330439J01Rik,MGC67344
A_51_P183746 Prrx2,S8,Prx2
A_51_P445211 Piwil1,MIWI
A_51_P224801 Klkb1,APS,Kal3,Klk3,Kal-3
A_51_P494951 4921522P10Rik
A_51_P191087 Cep2,Inmp,B230210E21Rik
A_51_P393998 AW552001,Ngrn
A_51_P474568 Pcdhga9
A_51_P416846 2610020H08Rik,MGC59529
A_51_P393968 Chx10,or,Hox10,Hox-10
A_51_P460143 Neu2,MBS,MSS,MTS
A_51_P363308 Ifna9,Ifa9
A_51_P221535 A430005L14Rik
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A_51_P415775 BC023818,Arg99
A_51_P126337 Fgf12,Fhf1
A_51_P475930 2410003J06Rik
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A_51_P475938 BC024997,MGC32231
A_51_P363338 Prkcm,PKD,Pkcm
A_51_P237565 BC060737,C130031J23
A_51_P415766 Siglec1,Cd170,Siglec5,Siglec9,mSiglec-E
A_51_P170807 Map3k6,MAPKKK6
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A_51_P126302 RbmX2,CGI-79,2700089A17Rik,2810411A03Rik
A_51_P474509 Unc50,URP,GMH1,UNCL,1110002A21Rik
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A_51_P180974 Prkcdp,SRBC,MGC6598,3110015B12Rik,6330514I
A_51_P237514 Eif1ay,1500010B24Rik
A_51_P416869 Nedd8,Rub1
A_51_P237512 1110001A07Rik
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A_51_P393944 9430019C24Rik
A_51_P340226 Sh3yl1,Ray,YSC84
A_51_P474518 Pcdhga7
A_51_P189292 Socs7,Nap4,2310063P06Rik
A_51_P198664 Mrgpra4,MrgA4

A_51_P125487 Pgk2,Pgk-2,Tcp-2
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A_51_P460153 Xrn2
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A_51_P407053 Cd44,Ly-24,Pgp-1,HERMES,AW121933
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A_51_P460107 6230417E10Rik,RaLP,Gm685,9930029B02Rik
A_51_P448340 Eif2s1,35kDa,Eif2a,eIF2alpha,0910001O23Rik,2410
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A_51_P407074 Sas,Tspan31,2700085A14Rik
A_51_P164148 1700049K14Rik
A_51_P147445 Lrrc28,1300004K21Rik,2210012C09Rik,2310058O1
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A_51_P416822 Hhip,Hip,Hip1,Hhip1
A_51_P384382 Crlf3,Crlf2,Creme9,Cytor4
A_51_P445260 1700025E21Rik,1700016K02Rik
A_51_P438692 Vti1b,GES30,SNARE,MVti1b,Vti1-rp1
A_51_P356283 Fbxo31,Fbx14,Fbxo14,2310046N15Rik
A_51_P475995 Thra,Rvr,Erba,Nr1a1,Thra1,Thra2,T3R[a],T3Ralpha,
A_51_P340255 Nbea,Lyst2,mKIAA1544
A_51_P517662 Olfr556,MOR41-1
A_51_P368012 Mdfi,l-mf
A_51_P338611 1500031M22Rik,AV111347
A_51_P407004 Prkrip1,C114,8430424D23Rik
A_51_P338615 Adprh,Arh1
A_51_P339898 Atad2,MGC38189,2610509G12Rik
A_51_P392540 Olfr18,MTPCR34,MOR145-1
A_51_P189272 BU531427
A_51_P158734 Ngb
A_51_P257841 1700034I23Rik
A_51_P174696 Casq2,ESTM52,MGC115896
A_51_P275949 Loxl2,MGC102220,1110004B06Rik,4930526G11Rik
A_51_P517645 2310014F07Rik
A_51_P189208 4933417G07Rik
A_51_P368074 Pgm2,Pgm1,Pgm-2,2610020G18Rik
A_51_P115749 Usp42,D5Erd591e,2410140K03Rik,3110031A07Rik
A_51_P248819 Bambi,2610003H06Rik
A_51_P448325 Esam1,Esam,W117m,2310008D05Rik
A_51_P159415 Sin3a,Sin3,mSin3A,KIAA4126,mKIAA4126
A_51_P356241 9530085L02Rik
A_51_P339824 BC060631,MGC79206,mKIAA0431
A_51_P257824 2600014C01Rik,Gcc2,mKIAA0336,0610043A03Rik,2

A_51_P339822 Arhgap4,c1,A130009C12Rik,A530015A20Rik
A_51_P431539 1700027L20Rik
A_51_P392594 Tesp1
A_51_P421094 Ascc3,RNAH,Helic1,ASC1p200,D630041L21,B63000
A_51_P338655 Birc1f,Naip6,Naip-rs4,Naip-rs4A
A_51_P140460 Snx24,2810011K15Rik,5730433I16Rik
A_51_P219896 2310015L07Rik
A_51_P224872 Syne2,NUA,syne-2,MGC96690,mKIAA1011,nesprin-
A_51_P100289 Srf
A_51_P356265 Acrbp,sp32,OY-TES-1
A_51_P394973 Ebp1,EBRP,5730442K12Rik
A_51_P339803 Tsp50,79H19C
A_51_P334118 Lin7c,Veli3,LIN-7C,MALS-3,LIN-7-C,MGC54626,D2E
A_51_P224843 Tmsb4x,Ptmb4
A_51_P460710 Tdrd3,6720468N18,4732418C03Rik
A_51_P338674 2400001E08Rik,MGC102412
A_51_P502685 2310011G06Rik
A_51_P480202 Dlx2,Dlx-2,Tes-1
A_51_P272493 C230075L19Rik
A_51_P460748 BC037703,MGC47256
A_51_P245796 Ddit4,dig2,REDD1,Rtp801,5830413E08Rik
A_51_P355943 Mvd
A_51_P115715 Asb2,1110008E15Rik
A_51_P248865 Foxf2,LUN,Fkh20,FREAC2
A_51_P156955 Adn,DF
A_51_P277263 RbmX
A_51_P210230 9630020I17Rik
A_51_P118046 Cyp2r1
A_51_P428157 Thsd2,cabriolet,2810459H04Rik
A_51_P281433 Unc84a,SUN1,mKIAA0810,4632417G13Rik
A_51_P301052 1810008A18Rik
A_51_P356229 Nxf1,Tap,Mvb1,Mex67
A_51_P100246 Ube2m,UBC12,Ubc-rs2,MGC25453,MGC37197
A_51_P324768 2810021G02Rik
A_51_P480233 1110025F24Rik
A_51_P178575 Brd3,ORFX,Fsrg2,RINGL3,2410084F24Rik
A_51_P131494 6230415M23Rik
A_51_P245789 Pcolce2,Pcpe2,2400001O18Rik
A_51_P257898 Impdh2,IMPD
A_51_P480241 Elf3,ESX,jen,ESE-1
A_51_P257892 Adam25,4930529F22Rik
A_51_P224894 Ing3,P47ING3,1300013A07Rik
A_51_P159492 9530014D17Rik,OCRL
A_51_P355906 Kit,W,Bs,Fdc,Ssm,CD117,c-KIT,Tr-kit
A_51_P301007 1700001L23Rik
A_51_P329243 4930577M16Rik,C730036B01Rik
A_51_P405565 Msh6,GTBP,Gtmbp
A_51_P502624 Olfr905,MOR167-1
A_51_P156902 Chchd3,0610041L09Rik,1700039J09Rik
A_51_P329251 Chchd1,MGC106657,1110001O19Rik,2400010G13F
A_51_P257885 Mmd2,4930518M15Rik
A_51_P502614 Dusp6,MKP3,MKP-3,PYST1,1300019I03Rik

A_51_P156934 Dnajd1,1110003P16Rik
A_51_P301023 Slc15a4,PHT1,PTR4,C130069N12Rik
A_51_P281164 9430041J06Rik
A_51_P329269 Rrm2b,p53R2
A_51_P502608 Wwtr1,TAZ,2310058J06Rik,2610021I22Rik
A_51_P156927 Arid4a,Rbbp1,A630009N03,A630067N03Rik
A_51_P100227 Ranbp5,IMB3,IPO5,Kpnb3,1110011C18Rik,5730478
A_51_P402165 Rgs7
A_51_P245718 A630082K20Rik,mKIAA1718
A_51_P402160 A030007D23Rik
A_51_P400107 Furin,Fur,PACE,SPC1,Pcsk3
A_51_P430855 Prlpc1,Prlpc,PLP-Ca
A_51_P328539 Eno3,Eno-3
A_51_P281486 Dnb5,C230078B22
A_51_P400137 Rpl29,Rpl43,MGC107574,MGC107575,MGC107576
A_51_P495767 Map3k4,MTK1,RP17,Mek4b,Mekk4,Rp17a,D17Rp17
A_51_P363090 Wdr56,mKIAA1374,4921524P20Rik
A_51_P402175 A030011M19
A_51_P178377 AK019700
A_51_P328522 Olfr1106,MOR172-6,MOR172-8_p
A_51_P384230 Sgk2,Sgk1
A_51_P183401 Olfr295,MOR220-1
A_51_P183400 Picalm,CALM,CLTH,fit1,fit-1,PAP180,KIAA4114,MGC
A_51_P409220 Fgf13,Fhf2
A_51_P355987 BC010250
A_51_P355981 4833428E21Rik
A_51_P237695 Gnai3,Gnai-3
A_51_P438514 1110020L19Rik,Uip1
A_51_P221495 Nsun5,Nol1r,Wbscr20,Wbscr20a,9830109N13Rik
A_51_P415413 Rfrp,NPVF
A_51_P409250 Oog1,Oog,c-1
A_51_P355996 BC016076,PTE-lc
A_51_P438527 Nqo3a2,B5R.1,CYB5R1,1500005G05Rik
A_51_P160625 BC037674,FOE,mWAPL,KIAA0261,mKIAA0261,241
A_51_P331690 Rbp3,Irbp,Rbp-3,MGC102323
A_51_P375533 Polr3b,RPC2,2700078H01Rik,A330032P03Rik
A_51_P147188 ENSMUST00000063560
A_51_P356335 Arhgap24,MGC38749,0610025G21Rik
A_51_P432851 BC022224,MGC18716
A_51_P183446 Ceacam1,Bgp,Hv2,Bgp1,Cea1,Cea7,Hv-2,MHVR,bb
A_51_P237688 1110003E01Rik,MGC7185,1700127H04Rik,5430439
A_51_P210395 Glrx1,Glrx,D13Wsu156e
A_51_P102471 Pglyrp2>tagL,PGRP-L,Pglyrpl>tagl-beta>tagL-alpha,Ci
A_51_P170911 Ptpn9,MEG2
A_51_P340583 B430306D02Rik,Ccg1,Taf1,Ccg-1,Taf2a,250kDa,TAI
A_51_P415455 6720473M11Rik
A_51_P237668 Bex2,Bex1
A_51_P178392 Ttc18
A_51_P445117 Zfpn1a4,Eos,Znfn1a4,A630026H08Rik
A_51_P329291 Cygb,HGb,Staap,3110001K20Rik
A_51_P198775 MGC65590
A_51_P384248 AK052331

A_51_P180891 2810439F02Rik,1700008N02Rik
A_51_P460633 Hgs,Hgr,Hrs,ZFYVE8
A_51_P183481 Hoxc4,Hox-3.5
A_51_P392277 Muc4
A_51_P348062 Gabrr2
A_51_P159746 2610020O08Rik,NKAP
A_51_P210350 Slc17a8,Vglut3
A_51_P392242 Egfr,Wa5,wa2,ErbB,wa-2
A_51_P183497 Htr6
A_51_P126258 Pcdhga1
A_51_P170959 Prox1,1300015B06Rik
A_51_P178894 E430004F17Rik
A_51_P426096 Mmp7,MAT
A_51_P230324 4921510J17Rik
A_51_P407351 Ly75,CD205,DEC205,DEC-205
A_51_P170946 Hnrpm,KIAA4193,mKIAA4193,2610023M21Rik
A_51_P238165 Sstr2,sst2,SSTR-2,Smstr2,Smstr-2
A_51_P494605 9030205A07Rik
A_51_P164043 Igk-V1
A_51_P356303 Stx8,CARB,0610007H08Rik,1110002H11Rik,493057
A_51_P445166 C1qtnf1,CTRP1,Zsig37,1600017K21Rik
A_51_P426066 Mect1,MGC90786,mKIAA0616
A_51_P171533 2900006K08Rik,AI427784
A_51_P147172 Tacr3,Nk3r,Tacr3r
A_51_P159771 Chkb,Chkl,CK/EK,Chetk,CK/EK-beta
A_51_P257960 Psma5,ZETA,MGC102091
A_51_P210300 2310047B19Rik
A_51_P221460 Ormdl3,2810011N17Rik
A_51_P331638 Onecut3,Oc3,OC-3
A_51_P310539 Atp6v1f,1110004G16Rik
A_51_P494622 Ttc13,MGC28881,MGC105232
A_51_P517525 A830020B06Rik
A_51_P147123 Ntn1,Netrin-1
A_51_P164064 Disc1
A_51_P178887 Mttp,MTP
A_51_P213129 Olfr731,MOR246-5
A_51_P460643 Hoxb3,Hox-2.7
A_51_P257951 Retnla,HIMF,Xcp2,Fizz1,RELMa,cytokine,RELMalph
A_51_P171086 Gucy1a2,9430053E15
A_51_P426047 Olfr804,MOR110-7
A_51_P310523 Ace,CD143,somatic
A_51_P331661 1200002M06Rik,Tere1
A_51_P368743 C630043F03Rik
A_51_P221449 Msi2h,msi2,1700105C15Rik
A_51_P221441 BC012256,BENE,MGC19097
A_51_P448416 2810021I11
A_51_P494646 Rtn3,RTN3-A1,MGC105197
A_51_P170987 D13Bwg1146e,R7bp,A930030I01Rik
A_51_P356353 Cds2,D2Wsu127e,5730450N06Rik,5730460C18Rik
A_51_P368713 0610007H07Rik
A_51_P172231 Gsdmdc1,DF5L,M2-4,Dfna5l,1810036L03Rik
A_51_P407323 F5,Cf5,Cf-5

A_51_P324690 Clec2d,Clr-b,Clrb,Clr-b
A_51_P238135 Suhw3,Zfp633,MGC38010,mKIAA1584
A_51_P257938 Tacstd2,Ly97,EGP-1,TROP2,GA733-1
A_51_P310548 Osgep,GCPL-1,PRSMG1,1500019L24Rik
A_51_P447020 4932423M01Rik,4930549K11Rik,4930554C01Rik
A_51_P164030 Tcp1,CCT,p63,Cct1,Ccta,TRic,Tp63,Tcp-1,c-cpn
A_51_P158425 Slc35c2,CGI-15,Ovcov1,D2Wsu58e,MGC18664
A_51_P338705 Ankrd15,MGC90826,mKIAA0172,D330024H06Rik
A_51_P448479 E130304D01
A_51_P426008 LOC327959
A_51_P407304 Aldh16a1,FLJ00209,MGC19339,mFLJ00209,24100C
A_51_P448447 Nupl2,CG1,Nlp1,NLP-1
A_51_P368705 4632409L19Rik,Ino80,2310079N15Rik
A_51_P356366 C130096D04Rik
A_51_P178815 H1foo,H1fo,H1oo
A_51_P426014 Golph3l,GPP34R,MGC28597,2010204I15Rik
A_51_P210163 Cacng3
A_51_P494686 Sumf1,FGE,MGC39076
A_51_P324651 Lphn1,Lec2,CLIBA,MGC109680,mKIAA0821,290007
A_51_P114826 Cdh13,Cdht,Tcad,T-cadherin,4932416G01Rik
A_51_P494675 Cotl1,Clp,1810074P22Rik,2010004C08Rik
A_51_P338746 Prdm1,Blimp1,Blimp-1,PRDI-BF1,ZNFPR1A1
A_51_P324640 C330018D20Rik
A_51_P114878 Ikbkap,Elp1,6030413P05,3110040G09Rik
A_51_P100174 Mns1
A_51_P338776 Dnajc8,1110021D09Rik,2010009J04Rik
A_51_P507942 Atp13a2,1110012E06Rik
A_51_P387235 Pbef1,Pbef,Nampt,1110035O14Rik
A_51_P281716 Ltbp1,Tgfb,Ltbp-1,LTBP-1S,9830146M04,9430031G
A_51_P405423 Smcr8,MGC103295,2310076G09Rik,D030073L15Ri
A_51_P159792 Col15a1
A_51_P102867 Dhrrsx,Pscad,Dhrrsxy
A_51_P509643 Snca,NACP,alphaSYN
A_51_P100155 2310066N05Rik,Rpf1,MGC102255,2210420E24Rik
A_51_P338799 Scml4,MGC49264,mFLJ00197,9330161D17
A_51_P258372 Igsf6
A_51_P480709 Ywhaz,1110013I11Rik
A_51_P281778 2210010C17Rik
A_51_P178872 2210019E14Rik,6330408J23Rik
A_51_P281700 Khrrp,KSRP,6330409F21Rik
A_51_P497692 Mageh1,APR1,APR-1,2010107K23Rik
A_51_P238183 Etnk2,Eki2,Tuc1,4933417N20Rik
A_51_P272303 Ankrd33,MGC31569,A930021G21Rik
A_51_P405478 Fcer1g,CD23,Fce1g,Ly-50,FcR[g],FcR-gamma
A_51_P334604 Wbp4,FBP21
A_51_P266723 Ythdf3,9130022A11Rik
A_51_P114843 H1fx,H1X,Gm461
A_51_P368171 AU020206
A_51_P288026 6230416J20Rik,D4Ertd27e,9830144E06
A_51_P324623 Olfr1234,MOR231-2
A_51_P495426 V1rf2
A_51_P178646 Rpp21,0610037N01Rik

A_51_P272360 Zfp263,NT2,1200014J04Rik
A_51_P272363 Mcoln3,Va,6720490O21Rik
A_51_P219970 Ela1,Ela-1,PC-TsF,1810009A17Rik,1810062B19Rik
A_51_P161148 Phf21a,Bhc,80kDa,Bhc80,PFTF1,MGC29190
A_51_P293830 Bmp10
A_51_P438880 Olfr1246,MOR231-9
A_51_P266733 B130005I07Rik,KIAA1117,MGC49390,C130028L17
A_51_P245633 4933405I11Rik
A_51_P161131 AK050906
A_51_P272341 LOC380824
A_51_P270741 Syng1,p29,Syng1b
A_51_P266763 Fech,Fcl,fch
A_51_P409132 AW550801,mKIAA1401
A_51_P281795 Tspyl5,6330530B20,E130308C19Rik
A_51_P421300 Drd1ip,Calcyon,0710001P07Rik,1110004A22Rik
A_51_P355427 Timp4,TIMP-4
A_51_P149313 AW107703,4921501M07
A_51_P281033 Coro2a,IR10
A_51_P138378 Fosb
A_51_P221852 Tmed1,St2l,Ly84l,I11r1l
A_51_P355416 Nisch,l-1,1200007D05Rik,3202002H23Rik
A_51_P281024 Rad9
A_51_P266774 Mfn2,Fzo,D630023P19Rik
A_51_P149349 Nfxl1,GCF,TCF9,DNABF,Gm1058,1700012H24Rik,E
A_51_P355442 4921511H13Rik
A_51_P198434 H2-K1,H-2K,H2-K,MHC I
A_51_P507982 Stk3,MST,Mst3,mess1,0610042I06Rik
A_51_P495492 Stx4a,Stx4,Syn4
A_51_P183165 F730014I05Rik,PCIF1,C20orf67,MGC25976,231002
A_51_P409101 1700021K14Rik
A_51_P147684 Nr2f2,ARP-1,SVP40,Aporp1,COUPTFB,COUP-TF2,
A_51_P480796 4930547N16Rik
A_51_P346815 6530401D17Rik,2900062L11Rik
A_51_P198410 Grb2,Ash
A_51_P183154 Hook1,azh,A930033L17Rik
A_51_P415519 Tmem39a,2610033C09Rik
A_51_P384515 C230043N17Rik,MGC31194
A_51_P356045 0610007P22Rik,MGC113771,1110014B11Rik
A_51_P237783 Foxd1,BF-2,Hfh10,FREAC4,Hfhbf2
A_51_P183102 Rnf139,4930555P18Rik
A_51_P438805 Txnip,THIF,VDUP1,mVDUP1,Hyplip1,1200008J08Ri
A_51_P149373 4632423N09Rik
A_51_P237775 Commd2,HSPC042,D3Ert176e,1190017G07Rik
A_51_P198473 Hnf4a,Hnf4,Tcf4,HNF-4,MODY1,Nr2a1,Tcf14,D19Mç
A_51_P340484 Ambn,MGC107285
A_51_P340481 Krtap3-3,KAP3.3,KRTAP3.3,2310020D06Rik
A_51_P246738 1700018C11Rik,bM230C2.3
A_51_P237766 Nsf1c,p47,MGC61403
A_51_P496640 Crim1
A_51_P438820 Pycard,Asc,TNS1,masc,CARD5,TMS-1,9130417A21
A_51_P183111 Olfr531,MOR251-3
A_51_P211854 Selp,Grmp,CD62P,PADGEM,P-selectin

A_51_P284244 Tmed3,P24b,120002G13Rik
A_51_P363564 Trp53bp2,53BP2,ASPP2,Tp53bp2,PPP1R13A
A_51_P331900 Dlgh3,DLG3,SAP102,mKIAA1232
A_51_P164393 Txndc2,Trx4,Sptrx1,Sptrx-1
A_51_P409194 G630024C07Rik
A_51_P474752 Ucn2
A_51_P184853 Odz2,Odz3,Ten-m2,mKIAA1127,D3Bwg1534e
A_51_P460391 2010016B13Rik,Defcr21
A_51_P237746 1110051A18Rik
A_51_P415546 Defb6,mBD-6
A_51_P438841 Ctnna2,cdf,chp,Catna,Catna2
A_51_P331910 4933433C11Rik
A_51_P363556 Abi2,MGC90836,MGC90855,C130078H13,8430425I
A_51_P340456 Ela3b,0910001F22Rik,2310074F01Rik
A_51_P474721 Olfr1057,MOR185-11
A_51_P517094 Sh3gl1,EEN,SH3P8,Sh3d2b
A_51_P517096 Casp8ap2,FLASH,mKIAA1315,D4Ertd659e
A_51_P126102 Cdx4,Cdx3,Cdx-3,Cdx-4
A_51_P189082 Akr1c6,Akr1c1,Hsd17b5,3alpha-HSD
A_51_P474709 D130073L02Rik,Gm64,C10orf42,2010012O16Rik
A_51_P310635 Fhl3
A_51_P474701 Fbp1,Fbp2,Fbp-2,FBPase 1
A_51_P211810 Polr2a,220kDa,Rpo2-1
A_51_P257690 Olfr44,IB3,MOR171-5
A_51_P438853 Serpinb11,2310046M08Rik
A_51_P448167 Cer1,Cerr1,cer-1
A_51_P221362 5430432P15Rik
A_51_P440315 Gys2,MGC29379
A_51_P363515 Rpl26,SIG-20
A_51_P126167 Dach2
A_51_P507053 Slc38a1,NAT2
A_51_P407248 Antxr1,Tem8,Antrx1,2310008J16Rik,2810405N18Rik
A_51_P211832 D230012E17Rik,A530084K22,5033403E17Rik,9030:
A_51_P460302 Adrbk1,GRK2,Bark-1,Adrbk-1,betaARK1
A_51_P221337 Ranbp10,4432417N03Rik
A_51_P392303 Lrrn3,NLRR-3
A_51_P310629 Apoc3,Apoc
A_51_P340402 Eefsec,sec,Selb
A_51_P407235 Olfr1111,MOR181-2
A_51_P460332 Apoc4,Acl
A_51_P448178 Kctd8,A730087N02Rik
A_51_P517001 D130040H23Rik
A_51_P310676 Galr2,mGalR
A_51_P189043 Grm1,Gprc1a,mGluR1,MGC90744,4930455H15Rik
A_51_P384584 Ixl,AU020902,2810405O22Rik
A_51_P183197 2310002J15Rik
A_51_P448127 2410004A20Rik,ECAT1
A_51_P147654 Tex261,TEG-261,3110001O07Rik
A_51_P147651 A630039F14Rik,D030074L19
A_51_P368660 Mphosph10,2810453H10Rik,5730405D16Rik
A_51_P189051 1110033I14Rik
A_51_P356003 5031408O05Rik,Gm775

A_51_P211822 0610025P10Rik,KIAA1787
A_51_P407213 Dm15,DM,DMPK
A_51_P111492 Nfil3,E4BP4
A_51_P213725 4930431J08Rik
A_51_P517020 AV075202
A_51_P407209 Rapgef6,Ragef2,Pdzgef2,KIAA4052,PDZ-GEF2,RA-
A_51_P448109 Capn2,Capa2,Capa-2,m-calpin
A_51_P395921 Uchl4
A_51_P115575 Map3k8,Cot,Est,Estf,Tpl2,Tpl-2,c-COT,Cot/Tpl2
A_51_P207380 4930526D03Rik,Gm692
A_51_P189005 Olfr283,MOR160-1
A_51_P338476 Mtnr1b,Mel1b,Mel-1B-R
A_51_P257619 Mutyh,Myh,Mutyha,Mutyhb,Mutyhc,Mutyhbeta,Mutyh
A_51_P115547 Scamp2,Sc2
A_51_P324572 Ctnna1,Catna1
A_51_P310649 Arsa,ASA,As2,AS-A,As-2,TISP73
A_51_P193894 2600014C01Rik,Gcc2,mKIAA0336,0610043A03Rik,2
A_51_P368620 Adam3,tMDC,Cyrrn1,Taz83
A_51_P497710 2410017I17Rik
A_51_P324583 Scamp4,Sc4,2410022D05Rik,A430024H01Rik
A_51_P114910 Cstb,Stfb
A_51_P114917 Dock2,Hch,MBC,CED-5
A_51_P448114 Hyal4,4632428M18Rik
A_51_P402391 Acvr1b,SKR2,ActRIB,ActR-IB,Acvrlk4,6820432J04
A_51_P301289 Atp5k,Lfm1,MGC107302,2610008D24Rik
A_51_P272681 AK044390
A_51_P421294 Glrp1,GRP-1
A_51_P100099 2610002J23Rik,C230060L03Rik
A_51_P356012 Phf7,1700006H01Rik,1700010P14Rik
A_51_P114900 Defb12,mBD-12,9230103N16Rik
A_51_P115526 4930528G09Rik
A_51_P100084 1700054H16
A_51_P324551 Fbxo25,Fbx25,9130015I06Rik
A_51_P281637 4833421E05Rik,1500019E20Rik
A_51_P356023 Rpl12,MGC102182,MGC102573,E430018F03
A_51_P338461 Numa1,6720401E04Rik
A_51_P211880 Mccc2,MCCB,4930552N12Rik
A_51_P133870 Zfp219,2010302A17Rik
A_51_P125602 Al467503,9430053K19
A_51_P111434 A_51_P111434
A_51_P114966 1700016G05Rik
A_51_P324535 B4galt5,9430078I07Rik
A_51_P301274 5330431K02Rik
A_51_P301277 Asb14,Asb-14
A_51_P207310 Txn2,2510006J11Rik
A_51_P111462 Arfrp2,A430036I03,C230032K13Rik
A_51_P338443 Angpt4,ARP4,Bk89,FIAF,Ng27,PGAR,HFARP,PGA
A_51_P453488 Usp34,Murr2,A530081C03Rik
A_51_P317941 Perp,THW,KCP1,PIGPC1,KRTCAP1,1110017A08Ri
A_51_P100052 Sliitrk2,A930040J07
A_51_P435844 Nr2e3,PNR,RNR,rd7,A930035N01Rik
A_51_P272646 Tom1

A_51_P193808 Il8ra,CXCR1
A_51_P368696 Apaf1,fog,Apaf-1,Apaf11,KIAA0413,mKIAA0413,623C
A_51_P301259 Araf,A-Raf,Araf1,1200013E08Rik
A_51_P257675 D10Bwg0791e
A_51_P114941 Cyp3a13,IIIAm2
A_51_P480062 Ubap1,Ubap,NAG20,2700092A01Rik
A_51_P281673 Krtap9-1
A_51_P273833 1500034J20Rik,MGC101970,2610528O17Rik
A_51_P405314 Rnf151,1700010O16Rik
A_51_P428341 Trex2
A_51_P324524 Ndp52,Ndp52l1,2410154J16Rik
A_51_P100034 2310075G12Rik,1110014L05Rik
A_51_P391432 1810023F06Rik,ISG12
A_51_P266403 2310005C01Rik
A_51_P334730 Srd5a2l,H5ar,A430076C09,1110025P14Rik,D730040
A_51_P480046 Entpd5,Pcph,Cd39l4,mNTPase,NTPDase5,ER-UDP;
A_51_P301236 Olfr686,MOR35-1
A_51_P100021 Hivep3,Rc,Krc,KBP1,Zas3,A130075N07,2900056N0
A_51_P421223 Fv1,Fv-1
A_51_P193813 Fga,Fib
A_51_P273823 4930438O03Rik
A_51_P111455 2610312E17Rik
A_51_P207324 Grk1,RK,Rhok,GPRK1
A_51_P415293 Nalp5,Op1,Mater,PAN11
A_51_P198583 Kcna3,Mk-3,Kv1.3,Kca1-3
A_51_P329053 D3Ertd207e
A_51_P207376 U55872
A_51_P275751 Nfkbil1
A_51_P391485 Itih1,Intin1,Itih-1
A_51_P290986 Dhcr7
A_51_P402378 Arfl4,ARL6,1110036H21Rik
A_51_P421279 Eml1,EMAP,ELP79,EMAPL,1110008N23Rik,A93003
A_51_P273843 Spcs2,MGC60452,mKIAA0102,5730406I15Rik
A_51_P329027 Tmprss11b,9930019B18Rik
A_51_P409039 Echs1
A_51_P272617 Hnrpa3,hnRNPA3,MGC37309,MGC101940,2410013
A_51_P178705 Olfr1093,MOR179-6
A_51_P328354 Olfr394,MOR135-8
A_51_P329003 Slc25a31,1700034J06Rik
A_51_P453456 1700029M20Rik,4930406E24Rik
A_51_P391495 Pola2
A_51_P409010 Comp
A_51_P400752 H2-Q5,Qa5,Qa-5,H-2Q5,Qat-5
A_51_P133884 Cd209a,CIRE,CD209,CDSIGN,Dcsign,DC-SIGN,SIG
A_51_P293901 Dhrr1,D14Ertd484e,1110029G07Rik
A_51_P421244 Prps2,Prps-2,MGC28388,2610101M19Rik
A_51_P453428 Mucdhl,1810074H01Rik
A_51_P375390 Gemin7,2400008I04Rik
A_51_P314547 AK019935
A_51_P273888 Cbln3
A_51_P384441 AV028368,9430091K04
A_51_P453475 Slc1a5,R16,AAAT,ATBO,M7V1,RDRC,ASCT2,M7VE

A_51_P245102 4930591A17Rik
A_51_P131635 Olfr1408,MOR267-4
A_51_P151820 4921511H13Rik,KIAA0539,mKIAA0539,5730405K23
A_51_P453446 Ror1,mRor1,Ntrkr1,2810404D04Rik
A_51_P438701 Atpaf2,ATP12,ATP12p
A_51_P151828 Flna,Fln1,ABP-280,F730004A14Rik
A_51_P105124 P2ry6,P2Y6,2010204J23Rik
A_51_P409068 Smug1,1200013B09Rik,A930006H09Rik
A_51_P221294 D1Ert471e,2810478N18Rik,3110063L10Rik
A_51_P221291 Sntb2,Snt2
A_51_P384469 Syncrip,pp68,Nsap1,Nsap1l,GRY-RBP,2610109K23I
A_51_P245123 Baat,BAT
A_51_P348232 Pcdh19,Gm717,mKIAA1313,B530002L05Rik
A_51_P290974 Bcr,mKIAA3017,5133400C09Rik
A_51_P517787 C130052I12Rik,Crr9,MGC36304
A_51_P512947 Hace1,KIAA1320,mKIAA1320,1700042J16Rik,A730C
A_51_P519251 Nupr1,p8,Com1,2310032H04Rik
A_51_P183672 BC006653
A_51_P151835 B130008E12Rik
A_51_P171772 Bcl11b,Rit1,Ctip2,B630002E05Rik
A_51_P310780 Pilra,FDFO3
A_51_P418016 Ccnj,D430039C20Rik
A_51_P384436 Ctrc
A_51_P183642 Pkhd1l1,D86,PKHDL1
A_51_P290914 3110070M22Rik
A_51_P224300 Smbp,Tm9sf3,KIAA4036,mKIAA4036,1810073M23R
A_51_P151862 Lims2,PINCH2
A_51_P415207 3110082D06Rik
A_51_P375378 Eya1,bor
A_51_P147361 E330021D16Rik
A_51_P519276 Ndufb7,1110002H15Rik
A_51_P221739 BC023814,MGC38548
A_51_P329084 Shprh,E130018M05,2610103K11Rik,D230017O13Ri
A_51_P331429 Glt25d2,D730024P12
A_51_P221256 Slc34a2,Npt2b,NaPi-2b,D5Ert4227e
A_51_P164296 Adamdec1,Dcsn,2210414L24Rik
A_51_P331424 Dnaic1,1110066F04Rik
A_51_P211943 Dtx2,Deltex2,2610524D08Rik
A_51_P363218 D11Lgp2e,B430001I08Rik
A_51_P329094 4930550L24Rik
A_51_P415225 Zfp105
A_51_P164286 Sh3kbp1,Ruk,Seta,1200007H22Rik,1700125L08Rik,
A_51_P415220 Wig1
A_51_P151848 Rfxdc1,4930572O07Rik
A_51_P126005 9930021F22Rik
A_51_P519295 Cast
A_51_P460067 D130054N24Rik
A_51_P211978 Olfr716,MOR260-2
A_51_P105178 Sox4,Sox-4
A_51_P224311 Popdc2,Pop2
A_51_P221274 Pign
A_51_P331409 Tacc1,4833447E04Rik,B230378H13Rik

A_51_P164270 Snrpa1,MGC6298,MGC25531,U2snRNP-A',150001E
A_51_P159573 Olfr313,MOR222-2
A_51_P416974 Pbx3
A_51_P221263 6330406P08Rik,MGC90567
A_51_P211968 Lcmt1,Lcmt,MGC11807
A_51_P183685 Rab34,Rah,Rah1
A_51_P392033 A930001N09Rik
A_51_P438781 Olfr93,MOR256-39P
A_51_P310734 Ndor1,NR1,4930447P04Rik
A_51_P433281 Oact2,2810049G06Rik
A_51_P433287 V1rf4
A_51_P392040 Cct6b,Cctz-2,CCTzeta-2
A_51_P340747 Hspa1l,Msh5,70kDa,Hsc70t
A_51_P331462 Cgrrf1,CGR19,1110038G02Rik,1810009H17Rik
A_51_P164256 ICRFP703B1614Q5.5,D7H11orf16
A_51_P416919 Ube2j2,Ubc6,Ubc6p,1200007B18Rik,2400008G19Ri
A_51_P151888 A_51_P151888
A_51_P363258 Prss22,BSSP-4,SP001LA,4733401N09Rik
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A_51_P257789 Hoxb2,Hox-2.8
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A_51_P517706 Fgf11,Fhf3
A_51_P416927 Olfr16,MOR23,MOR267-13
A_51_P339997 AK032247
A_51_P292877 Ascc311,HELIC2,KIAA0788,U5-200KD,U5-200-KD,A:
A_51_P211934 D3Wsu161e
A_51_P221239 Fbxw8,FBW6,FBW8,Fbx29,FBXO29,4930438M06Ri
A_51_P239984 Exo1,Msa
A_51_P494430 Id4,Idb4
A_51_P356186 Snai3,Smuc,Zfp293
A_51_P159533 Kcnh6,m-erg2
A_51_P292823 4930594C11Rik
A_51_P211923 Eif5a2,eIF5AII,9630038B20
A_51_P339962 Cwf19I2,9030209E10,3230401L03Rik
A_51_P221223 Sgne1,7B2,Sgne-1
A_51_P292859 Olfr618,MOR31-9
A_51_P293656 Rrn3,E130302O19Rik
A_51_P368535 Nbeal1,ALS2CR17,A530050O19Rik,A530083I02Rik
A_51_P310773 NM_030563
A_51_P340704 Prpf31,RP11,PRP31,1500019O16Rik,2810404O06R
A_51_P448203 Cnbp1,Cnbp
A_51_P164219 Usp18,UBP43,Ubp15,1110058H21Rik
A_51_P356169 Tpk1
A_51_P339943 Nid1,Nid,entactin,nidogen-1,A630025O17,entactin-1
A_51_P142813 Aspn,PLAP1,SLRR1C,4631401G09Rik
A_51_P164207 Mta2,mmta2,Mta1I1,Mata1I1
A_51_P164203 Nme4,Nm23M4,NM23-M4,2610027N22Rik,2810024
A_51_P338515 Tnfsf5ip1,Clast3,1700017I17Rik
A_51_P324491 Cmpk,UMP-CMPk,0610011D08Rik
A_51_P507410 Hmgcr,Red,HMG-CoAR,MGC103269
A_51_P448224 Crebbp,CBP
A_51_P334490 6430548M08Rik,mKIAA0513

A_51_P310741 Olfr791,MOR114-1
A_51_P433237 Cdh3,Cadp,Pcad,P-cadherin
A_51_P448236 Ctsk,Ms10q,MMS10-Q
A_51_P132592 6030458C11Rik
A_51_P219888 Olfr599,MOR23-1
A_51_P211998 4933405A16Rik
A_51_P339934 Nefl,Nfl,NF-L,NF68,CMT2E
A_51_P257718 AK052949
A_51_P339932 Neb
A_51_P324473 9130014G24
A_51_P293665 Mart8c
A_51_P224362 Akap6,PRKA,MGC73457
A_51_P416995 Rps16
A_51_P338563 Slc36a1,Pat1,5830411H19Rik
A_51_P211980 Rgs3,C2pa,RGS3S,PDZ-RGS3,C2PA-RGS3,49305C
A_51_P232128 Pdcl2,Tphlp,Mgcphlp,1700010B22Rik,1700016K07R
A_51_P392090 Tmem19,2810428F02Rik
A_51_P438278 C130038G02Rik,5730592G18Rik
A_51_P210340 Aak1,MGC40785,mKIAA1048,9630042K20,D6Ert2
A_51_P494481 4732481H14Rik,C030041J06Rik
A_51_P433228 Ccnd2,Vin1,Vin-1,2600016F06Rik
A_51_P324450 1700023A18Rik,Pbp2,Pebp2,Pebp-2
A_51_P293688 Rab32,2810011A17Rik
A_51_P453587 D530031C13Rik,KIAA1240,1110014E10Rik
A_51_P338542 Mrps23,Rmps23,D11Bwg1153e,2310047I09Rik
A_51_P480578 Pcx,Pc
A_51_P224324 Mass1,VLGR1,Frings
A_51_P257753 NAP108687-1
A_51_P430900 Dusp1,erp,mkp-1,3CH134,Ptpn16
A_51_P430903 AK029875
A_51_P494491 Phox2b,Dilp1,Pmx2b,NBPhox
A_51_P272553 Bhlhb2,CR8,Dec1,Clast5,Sharp2,Stra13,Stra14,C13
A_51_P266191 Klhl14,6330403N15Rik
A_51_P187171 BC003266,MGC7764
A_51_P257743 2810451A06Rik
A_51_P421559 Bspry
A_51_P272563 C330023M02Rik,A630046C11,4833422K13Rik
A_51_P421551 D030010E02Rik
A_51_P224342 Ghitm,PTD010,1010001P14Rik
A_51_P266143 Adpgk,Adp-gk,2610017G09Rik
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A_51_P355693 Nr3c1,GR,Grl1,Grl-1
A_51_P281134 Crsp2,ORF1,Gm641,Trap170,9930001L01Rik
A_51_P324410 Vti1a,Vti1,MVti1,MVti1a,Vti1-rp2,MGC102006,11100
A_51_P171200 Golph2,GP73,PSEC0257,2310001L02Rik,D030064E
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A_51_P111757 Asb1,mKIAA1146,1700029O08Rik,1700054C17Rik
A_51_P207237 Krt2-1,Krt-2.1
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A_51_P421578 A_51_P421578
A_51_P273921 Capg,mbh1,gCap39

A_51_P266168 Eif4e2,Eif4e13,D0H0S6743E,2700069E09Rik
A_51_P254864 Opa1,1200011N24Rik
A_51_P161362 Gnl2,Ngp-1,MGC7863,HUMAUANTIG
A_51_P402044 Tssk2,Tsk2,DGS-G,SPOGA2,Stk22b
A_51_P149126 Dhhs9,Rdh15,C730025I08Rik
A_51_P254855 Ptgs2,COX2,Cox-2,PHS-2,Pghs2,TIS10
A_51_P207253 1700034K16Rik
A_51_P266155 9430004M15
A_51_P368580 Ablim1,Limab1,abLIM-L,abLIM-M,abLIM-S,mKIAA00
A_51_P337662 6330505F04Rik,D130066O12,4930535D10Rik
A_51_P281123 BC027344
A_51_P430950 Rdx
A_51_P430952 Ripk1,RIP,Rinp,D330015H01Rik
A_51_P219822 Pigm,4933437L05Rik
A_51_P453519 Zdhhc16,Aph2,1500015N03Rik
A_51_P105292 A230062G08Rik,Aasdh,A830035E16
A_51_P266103 BC022641
A_51_P364609 Fads2,Fadsd2,2900042M13Rik
A_51_P161342 Abcb6,1200005B17Rik
A_51_P364600 Fyb,ADAP,B630013F22Rik
A_51_P495212 Dtx4,RNF155,D930042H13
A_51_P207275 4833423E24Rik,Gm113
A_51_P273979 Cenpa,Cenp-A
A_51_P156438 5730438N18Rik,MGC4399
A_51_P430973 Mpra,mPR,PGLP,Paqr7,2310021M12Rik
A_51_P421538 C80638
A_51_P275407 Phactr2
A_51_P174176 Serpinf2,Pli,Serpimf2
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A_51_P161354 Sesn2,HI95,Ses2,SEST2,MGC11758
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A_51_P355617 Card11,BIMP3,CARMA1,0610008L17Rik,2410011D(
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A_51_P496045 9530039L23Rik
A_51_P245038 1700011A15Rik
A_51_P409761 2810008M24Rik
A_51_P131514 Zdhhc9,6430508G22,9530098M12Rik
A_51_P331798 Pip5kl1
A_51_P445683 4931406C07Rik
A_51_P183373 5830417C01Rik
A_51_P198271 D17Wsu155e,Gtf2h5,2700017P07Rik,2810432H05R
A_51_P198274 Ap4s1
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A_51_P453569 Olfr943,MOR171-44
A_51_P415369 Rog,FAXF,FAZF,PLZP,Tzfp,4930524C15Rik
A_51_P147085 Nfatc3,NFAT4,NFATx,D8Erttd281e
A_51_P240193 Olfr70,mOR6,MOR262-10
A_51_P149155 AI854408,6330418D12
A_51_P355652 Olfr1448,MOR202-5
A_51_P400040 Ubx4,MGC7992,6330407P03Rik

A_51_P384718 Efna4,Epl4,EFL-4,LERK-4
A_51_P363791 Ap3m1,1200013D09Rik
A_51_P409724 Secisbp2
A_51_P415306 4930563D23Rik
A_51_P340699 1110065D03Rik,Rasl11a
A_51_P409729 Zfp112
A_51_P418339 Nudcd2,D11ErtD603e,2700047N05Rik
A_51_P363749 Irf6,mirf6,E230028I05Rik
A_51_P348548 Sitpec,ECSIT
A_51_P254895 BC013476,MGC18880
A_51_P368160 Flna,Fln1,ABP-280,F730004A14Rik
A_51_P501998 Asb18,Asb-18
A_51_P445662 Hsd17b4,MFE-2,Mfp-2,perMFE-2,17[b]-HSD
A_51_P183314 Olfr651,MOR31-11
A_51_P340668 Bcl9l
A_51_P284426 Cstad,9530039B02Rik
A_51_P331702 Smarca4,Brg1,SW1/SNF,HP1-BP72,SNF2beta
A_51_P147056 Ubl4,Gdx,DXS254E,DXS254Eh,DXHXS254E
A_51_P310088 2610207I05Rik,mKIAA0421
A_51_P433399 Zfp192,LD5-1,2510038J07Rik,D430019P06Rik
A_51_P340653 Slc16a4,MGC37305
A_51_P418375 Jam2,JAM-2,JAM-B,Jcam2,VE-JAM,1110002N23Rik
A_51_P147064 1600014C23Rik
A_51_P433388 1700019A02Rik
A_51_P458242 Mtch1,PSAP,C77849,2310034O17Rik
A_51_P126959 V1ra4,V1RA7
A_51_P221132 BC016226,MGC28775
A_51_P392134 Ube2n,1500026J17Rik
A_51_P221144 1300010F03Rik,mKIAA0564,4932416F07Rik
A_51_P126702 Ddit4l,REDD2,Smhs1,RTP801L,1700037B15Rik,170
A_51_P147003 Cd300a,CIm8,LMIR1,MMAC8,Pigr4,mcpir1,MAIR-la,
A_51_P310076 Nsmaf,Fan,C630007J05
A_51_P257496 Ace2,2010305L05Rik
A_51_P257498 Slc8a2,Ncx2
A_51_P340623 Dscam,4932410A21Rik
A_51_P310040 Rod1,MGC11742,5830471K22Rik
A_51_P159896 Dnajc1,MTJ1,ERdj1,Dnajl1,4733401K02Rik,D23003f
A_51_P293706 2810021B07Rik,C330007M08Rik
A_51_P363719 Stx7,Syn7
A_51_P363714 Hip2,D5ErtD601e
A_51_P147024 Al836003,5630400A08
A_51_P494725 Grm2
A_51_P182443 Eif5b,IF2,A030003E17Rik
A_51_P340601 Btg3,ANA,tob5
A_51_P310066 Rasgef1a,6330404M18Rik
A_51_P293729 Ivns1abp,ND1,NS-1,Nd1-L,Nd1-S,NS1-BP,HSPC06f
A_51_P221109 Al835779
A_51_P221100 Snph,mKIAA0374,6430515A01
A_51_P494744 Grip1,eb,KIAA4223,mKIAA4223,4931400F03Rik
A_51_P161086 Ppic,CyP-20c
A_51_P494751 4933405K18Rik
A_51_P416419 Calr,CRT,Calregulin

A_51_P389531 Hrmt1l2,Mrmt1,Prmt1,6720434D09Rik
A_51_P338244 Timm17b,Sfc3,17kDa,mTim17b
A_51_P268343 2310007F21Rik
A_51_P447545 Igfbp1,IGFBP-1
A_51_P219989 Zfyve16,mKIAA0305,B130031L15,B130024H06Rik
A_51_P159803 Nrg4
A_51_P268331 Rnf128,GRAIL,Greul1,1300002C13Rik
A_51_P372099 9930022N03Rik
A_51_P402583 Gpld1,6330541J12Rik
A_51_P416439 Zdhhc6,2400007G07Rik,5930409M18Rik
A_51_P310020 Olfr1299,MOR248-8
A_51_P338262 Tnnt2,Tnt,cTnT
A_51_P433333 Gprc5d
A_51_P207183 Slc35f1,Duf6,E130016L02
A_51_P159863 Slc4a10,NCBE,KIAA4136,mKIAA4136
A_51_P257419 Lhx2,ap,LH2A,Lh-2,Lim2,apterous
A_51_P281057 A_51_P281057
A_51_P293781 Fkbp1b,12.6kDa,FKBP12.6
A_51_P480653 Mbtps2,MGC25655,9630032G22Rik
A_51_P338208 Pde1c
A_51_P355589 Fjx1
A_51_P507172 2310022A10Rik
A_51_P302507 Sfrs2ip,SIP1,CASP11,SRRP129,mKIAA3013,111006
A_51_P507844 Lnp,Ul,ulinaess,2310011O18Rik,4921514L11Rik
A_51_P507851 Gcc1,4932417P04Rik
A_51_P507111 Rab12,2900054P15Rik
A_51_P433360 MGC25972
A_51_P257457 Ltbp2
A_51_P268391 Gp2,2310037I18Rik
A_51_P281013 0610007L01Rik,A930023A16Rik,G430067H08Rik
A_51_P245393 L3mbtl2,M4mbt,MGC31247,4732493N06Rik
A_51_P245391 Myo9a,C230003M11,4732465J09Rik
A_51_P125563 Gcn1l1,GCN1L,mKIAA0219,4932409G22,G431004K
A_51_P171107 Tmem35,9030603L14Rik
A_51_P201479 2610016D08Rik
A_51_P391616 Agxt2l1,1300019H02Rik
A_51_P368496 6530411B15Rik
A_51_P428555 Adh1,Adh-1,ADH-AA,Adh-1e,Adh-1t,Adh-3e,Adh1-e,
A_51_P383991 Sept4,Bh5,Pnutl2
A_51_P192429 Spata5,Spaf,2510048F20Rik
A_51_P161021 Ifit2,Ifi54
A_51_P161024 4732416F18
A_51_P368483 1700123O20Rik,MNCb-2990
A_51_P337598 2410131K14Rik
A_51_P507817 Eif4enif1,Clast4,D11Ert166e,2610509L04Rik,A9300
A_51_P421479 Zdhhc11
A_51_P402575 1110012J17Rik,MGC77963,t8219b25,mKIAA0802,D
A_51_P111212 1110007L15Rik
A_51_P453635 Mdk,MK,Mek,cytokine
A_51_P266618 Cyp8b1
A_51_P149209 4930472F24Rik
A_51_P209996 Tuba-rs1,alphaTT1

A_51_P207153 1110008P14Rik
A_51_P400581 Anp32e,CPD1,LANPL,LANP-L,mLANP-L,MGC1164C
A_51_P161054 Itgb6,2210409C20Rik,4831415H04Rik
A_51_P133618 Clcn1,adr,mto,Clc1,Clc-1,SMCC1,myotonia
A_51_P428529 Oas1c,Oasl2,Oasl5
A_51_P156511 NAP057146-1
A_51_P391655 Ryr2,9330127I20Rik
A_51_P266668 2410014A08Rik,ESTM19,mKIAA0152
A_51_P438990 Olfr909,MOR165-1
A_51_P415095 Syn1,Syn-1,Synapsin Ia,Synapsin Ib
A_51_P453616 1700003F17Rik
A_51_P372059 AK044315
A_51_P428512 Cldn16,PCLN1,claudin-16
A_51_P372050 3110057M17Rik
A_51_P198387 Uckl1,Urk11,1110007H10Rik
A_51_P519024 Rpl3,F2,J1,MGC103388
A_51_P132233 AI846133
A_51_P133638 3110021A11Rik
A_51_P402536 Uvrag,Uvrag1,9530039D02Rik
A_51_P266644 Sesn1,PA26,SEST1,1110002G11Rik
A_51_P251915 Irgq1,FKSG27
A_51_P266640 1700021I09Rik,Nob1,ART-4,Nob1p
A_51_P415070 F730023N20
A_51_P409677 Chrm5,m5,M5R
A_51_P372073 Slc6a18,XT2,Xtrp2,D630001K16Rik
A_51_P156526 Atp2b3,Pmca3,6430519O13Rik
A_51_P183041 AB041550
A_51_P519008 9430023B20Rik
A_51_P415087 Tac2
A_51_P261204 Foxi2,B130055A05Rik
A_51_P149257 Phospho1,D11Moh36
A_51_P183051 Upb1
A_51_P415059 Aurkb,Aik2,Aim1,Ark2,AurB,IPL1,Stk5,AIM-1,AIRK2,
A_51_P409616 Ostf1,SH3P2,Sh3d3
A_51_P149267 4930533K18Rik,4933433H14Rik
A_51_P107807 Olfr586,MOR8-2,MOR8-7
A_51_P156547 Tcf3,Tcf-3,Tcf711
A_51_P363495 5031434C07Rik
A_51_P126684 E130306I01Rik,Lrrc14
A_51_P178903 1700024D23Rik,Trek2,3010005K24Rik
A_51_P507899 Ttc8,BBS8,0610012F22Rik
A_51_P156579 AK053130
A_51_P454927 Elac2,Hpc2,D11Wsu80e,1110017O07Rik
A_51_P133670 Erp29,Erp28,Erp31,PDI-Db,1200015M03Rik,281044
A_51_P178938 V1ri4
A_51_P258848 4933427G17Rik
A_51_P409637 4930505A04Rik
A_51_P331288 Akr1b7,Avdp,MVDP,MGC107658
A_51_P156564 2810455K09Rik
A_51_P519040 D430041D05Rik
A_51_P117865 BC004044,Fam20c,MGC7673,KIAA4081,mKIAA408
A_51_P438909 Nde1,Nude,mNudE,2810027M15Rik

A_51_P496735 Grid1,GluRdelta1
A_51_P438905 Inadl,Cipp,Patj
A_51_P509961 Slc5a10
A_51_P384629 Ctsd,CD,CatD
A_51_P105755 2610041B18Rik
(+)eQC-05
(+)eQC-34
(+)eQC-29
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(+)eQC-28
(+)eQC-30
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(+)Pro25G-01
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(+)eQC-42
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(+)eQC-01
(+)eQC-40
(+)eQC-25
(+)eQC-09
(-)3xSLv1
(+)Pro25G-02
A_51_P220163 Notch3

A_51_P230932 Cab39,MO25,39kDa
A_51_P220195 2700017M01Rik,Pme1,1110069N17Rik
A_51_P154796 1700036A12Rik
A_51_P357890 Rims1,Rim,RIM1,RIM1a,Serg1,Rab3ip1,KIAA0340,rr
A_51_P465269 D14ErtD209e,2310032K15Rik
A_51_P190346 Rpl18,L18,Rpl18a
A_51_P138199 6330540D07Rik,2700081K05Rik
A_51_P486899 Gtpbp5,D2Bwg0647e,1810011P19Rik
A_51_P432697 Cbara1,CALC,MGC29229,MGC36365,MGC36503,M
A_51_P441822 Fmo4,D1ErtD532e
A_51_P143747 4930401A09Rik
A_51_P111729 Wnt9b,Wnt15,Wnt14b
A_51_P100394 NAP057315-1
A_51_P100396 Cyp26b1,CP26,P450RAI-2
A_51_P502835 Ube2h,Ubc8,E2-20K,1500009C23Rik
A_51_P208705 4933412H03Rik,1810059A23Rik
A_51_P187432 A_51_P187432
A_51_P160393 Dcbld2,Esdn,CLCP1,1700055P21Rik
A_51_P343382 Daf2,Daf-TM,TM-DAF
A_51_P284227 Prrg2,N4WBP1,1600014G02Rik,2510041M06Rik
A_51_P455339 Ear11
A_51_P201898 1700102P08Rik
A_51_P407652 Igk-V38,Vx38C
A_51_P303286 Defb8,mBD8,Defr1
A_51_P422495 V1rh7
A_51_P407647 4930429H24Rik,1110046J11Rik,6530402O20Rik
A_51_P143794 Prickle2
A_51_P199854 Pex3,1700014F15Rik,2810027F19Rik,2900010N04F
A_51_P172246 TC1088182
A_51_P149025 6330583I20Rik
A_51_P426872 Gdpd3,1110015E22Rik
A_51_P187444 Rasgrp2,CDC25L
A_51_P222441 Atic,2610509C24Rik
A_51_P454628 Amotl1,JEAP,FLJ00155,mFLJ00155,2310010G08Ril
A_51_P146013 Gal3st4,1500031A01Rik
A_51_P256305 Mrpl37,Rpml2,MRP-L2,2300004O14Rik
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A_51_P206173 AV216087,MGC19163
A_51_P494888 NM_145688
A_51_P475985 Cops7b,D1Wsu66e,E130114M23
A_51_P126371 Gzmn,GrN
A_51_P273923 5530401A10Rik
A_51_P199871 Pin1,D9Bwg1161e,0610025L01Rik
A_51_P305708 Asah2
A_51_P296070 Rnf12,Ha1r,RLIM
A_51_P370241 Pdzk3,Gm82,KIAA0300,mKIAA0300,4930537L06Rik
A_51_P470650 Ctnnd1,P120,Catns,Ctnnd,mKIAA0384
A_51_P357804 BU593400
A_51_P266009 R74740
A_51_P509969 2810052M02Rik,Ckip1
A_51_P178615 Olfr177,MOR184-7
A_51_P250547 Dhx38,Ddx38,Prp16,5730550P09Rik

A_51_P427312 Abca3,Abc3,ABC-C,MGC90532,1810036E22Rik
A_51_P380772 Cbs,HIP4,MGC18856,MGC18895,MGC37300
A_51_P300031 4933404O19Rik
A_51_P511429 Sag,Irbp,A930001K18Rik
A_51_P414325 1700014D04Rik
A_51_P259584 E030019O05
A_51_P370222 B-raf
A_51_P444452 C330043M08
A_51_P146058 Arrb2
A_51_P450186 Art4,DO,DOK1,4432404K01Rik
A_51_P357829 Fncc4,FRCP1,Fnmp1,2810430J06Rik,6330410H20F
A_51_P397766 Csnk2a1,MGC102141,Csnk2a1-rs4
A_51_P182359 Hist1h2bk
A_51_P177138 1700041C02Rik,1700111D19Rik,4930445I03Rik
A_51_P157026 Ttyh3,2900029G13Rik
A_51_P470612 Hsd17b12,Kik1,KIK-I,2610510O05Rik
A_51_P177103 Olfr155,OR37A,mOR37a,Olfr37a,MOR262-14,GA_x!
A_51_P266043 Dusp7,MKPX,MKP-X,PYST2
A_51_P370250 Capn10,Capn8,AI430010,mKIAA1845
A_51_P426902 Klra23,Ly49W,Ly-49W1,Ly-49W2
A_51_P475920 A_51_P475920
A_51_P182370 Cyp2b10,p16,Cyp2b,Cyp2b20
A_51_P206193 Gtf2a1f,Alf,1700011N16Rik
A_51_P420951 Wdr12,Ytm1,Ytm1p,4933402C23Rik
A_51_P202480 Rrh
A_51_P236825 2410012H22Rik
A_51_P216903 Smurf2,2810411E22Rik
A_51_P215465 Mrgpra2,MrgA2
A_51_P399996 Igh-VJ558,MGC6727
A_51_P105725 Ece1
A_51_P368262 Nr2c2,Tr4,TAK1,KIAA4145,mKIAA4145
A_51_P216916 1210002B07Rik,4833411G06Rik
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A_51_P454986 Tmcc2,1110063G11Rik
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A_51_P177141 Katnal1,MGC40859
A_51_P516115 Olfr1145,MOR264-19
A_51_P149041 NAP057130-1
A_51_P375111 Capn5
A_51_P464758 Sh2d3c,Chat,Nsp3,Shep1
A_51_P444103 Spock2,mKIAA0275
A_51_P475167 Psm13,S11
A_51_P450320 Agtr1b,AT1B,AT2R1B,Agtr-1b,Angtr-1b
A_51_P464704 Ccl8,HC14,Mcp2,MCP-2,Scya8,1810063B20Rik
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A_51_P387378 Zfp537,Tsh3,KIAA1474,mKIAA1474,A630038G13Rik
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A_51_P160053 E030041M21Rik,KIAA0701,mKIAA0701,2010319N2:
A_51_P240064 Zfp258,D4Wsu24e,9330177P20Rik
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A_51_P215450 Zfp526,D030024H03Rik

A_51_P516175 Plpcd,PLP-Cd,1600017L04Rik,3830403L08Rik
A_51_P408239 H2-T24,H-2T24
A_51_P186760 Col8a2,MGC90765
A_51_P464778 Pi16,1200009H11Rik
A_51_P174656 Tera
A_51_P270427 Egr4,NGFIC,NGF1-C,NGFI-C,pAT133
A_51_P388580 AY036118
A_51_P406288 Gip
A_51_P390255 Cs,Cis,2610511A05Rik,9030605P22Rik
A_51_P454936 Gpr19
A_51_P438984 A330102K23Rik,taip-2
A_51_P157080 C630050I24Rik
A_51_P240041 Serpina3k,RP54,Spi2,MMCM2,Spi-2,MMSpi2,D12Rik
A_51_P482198 Nxf7,Nxf6,nxf-a,nfx-a1,nxf-a2
A_51_P239125 Cgnl1,JACOP,4933421H10Rik,9930020M10Rik
A_51_P387362 Rpl4,2010004J23Rik
A_51_P502133 Mmp23,CA-MMP
A_51_P149013 C230093N12Rik,Eeig1,MGC38572
A_51_P399914 Psm1,S1,P112,2410026J11Rik
A_51_P230616 4930505N22Rik
A_51_P239156 AL033314,Snd1
A_51_P481619 BC038311
A_51_P473717 Cias1,FCU,MWS,FCAS,Mmig1,NALP3,Pypaf1,All/Al
A_51_P240023 Al836376
A_51_P211870 Arhgap18,4833419J07Rik
A_51_P399900 Matk,CHK,HYL,Ntk
A_51_P323252 NAP057201-1
A_51_P259550 Gpatc3,D930035B09Rik
A_51_P372382 2610101N10Rik
A_51_P223962 Tcfcp2,LSF,CP-2,UBP-1,LBP-1c,LBP-1d
A_51_P379268 C130053K05Rik
A_51_P134642 Tbl3,9430070M15Rik
A_51_P323291 Trim28,KAP-1,Tif1b,KRIP-1,Tif1beta,MGC102100
A_51_P143258 Mme,NEP,CD10,CALLA,6030454K05Rik
A_51_P100434 AK076663
A_51_P432347 Trappc6b,5830498C14Rik
A_51_P493010 Spg3a,FSP1,SPG3,AD-FSP,4930435M24Rik
A_51_P167576 AF062528
A_51_P500512 3930401E15Rik
A_51_P346614 Vangl1,Lpp2,STB2
A_51_P227597 V1rc33
A_51_P451395 Pdzk1,Pdzd1,mPDZK1,D3Ert537e,1700023D20Rik
A_51_P187782 Tusc4,G21,NPR2L,NPRL2,2810446G01Rik
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A_51_P154586 V1ri6
A_51_P167568 Erdr1,edr,MGC5764
A_51_P426714 2300008B03Rik
A_51_P178758 Tcf23,Out,2010002O16Rik
A_51_P453817 C230098O21Rik
A_51_P311089 Kihl12,C3ip1,MGC7076
A_51_P190279 Nup62,p62,Nupc1,MGC101995,D7Ert649e
A_51_P312576 Myct1,Mtmc1,1110020B04Rik

A_51_P190244 Ctnnd2,Nprap,Catnd2
A_51_P281684 Lhcgr,Lhr,Gpcr19-rs1
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A_51_P349783 Acp5,TRAP
A_51_P143201 Tcstv3
A_51_P402014 NAP057311-1
A_51_P273863 2210010B09Rik,9130221F13
A_51_P386422 9530004P13Rik
A_51_P496335 Papola,PAP,Plap,PapIII
A_51_P473506 Gpr171,H963,A630006E05,F730001G15Rik
A_51_P362009 Tceb3bp1,EloA-BP1,1700021P10Rik,2610511M11R
A_51_P256034 Sf3b5,10kDa,Sf3b10,1110005L13Rik
A_51_P266311 Gvin1,VLIG,ligs1,VLIG-1,9130002C22Rik,9830104F
A_51_P427010 TC968012
A_51_P435600 NAP057145-1
A_51_P281670 D2Wsu81e,MGC90552,9930028P05
A_51_P273874 4833420K19Rik,3110001A18Rik
A_51_P390389 Zmynd19,mizip,2700064H14Rik
A_51_P187704 Dscr11,MCIP2,ZAKI-4
A_51_P498601 ENSMUST00000021175
A_51_P205965 Snx15,1500032B08Rik,E130013C21Rik
A_51_P485655 3110052M02Rik,mszf57,mszf71
A_51_P410506 4933409K03Rik
A_51_P146164 TC1041591
A_51_P138061 Rnf13,Rzf,2010001H16Rik
A_51_P205923 B230373P09Rik
A_51_P205920 Xylt1,8030490L12
A_51_P187748 Lincr,2010300P06Rik
A_51_P256007 Za20d2,Zfp216,2310057A04Rik,5830475F03Rik
A_51_P281612 Olfr609,MOR9-1
A_51_P336693 Sfrs9,25kDa,SRp30c,2610029M16Rik
A_51_P512649 Syt9,Syt5,Sytv
A_51_P433677 NAP057002-1
A_51_P191439 AV344025,AI852629
A_51_P517198 Pcdha5,Cnr6,Cnr6
A_51_P353125 Pcyt1b,CTTbeta
A_51_P182006 NAP025934-1
A_51_P397471 Rap2ip,Rpip8
A_51_P485243 Adipor1,Paqr1,ACDCR1,CGI-45,2810031L11Rik
A_51_P365528 Scmh1,Scml1,Scml3
A_51_P370822 1810023B24Rik
A_51_P193095 Pemt,Pempt,Pempt2
A_51_P504915 BC030500,MGC40983
A_51_P500574 Psmc12,P55,1500002F15Rik
A_51_P256029 Unc5a,Unc5h1,mKIAA1976
A_51_P511132 NP818424
A_51_P328818 Olfr100
A_51_P349742 Scel,9230114I02Rik
A_51_P349770 4930580F03Rik
A_51_P305410 A_51_P305410
A_51_P292374 2410015B03Rik
A_51_P272761 Cdh18,Cdh14I

A_51_P368381 Zbtb20,HOF,DPZF,Oda8,ODA-8S,Zfp288,D16Wsu7:
A_51_P435689 XM_141175
A_51_P414034 A_51_P414034
A_51_P193081 Panx3,3230401P04,4833413G11Rik
A_51_P504962 Jtv1,AA407136,AA407225,MGC30261,MGC36346,N
A_51_P292307 1300003K24Rik,mKIAA1002
A_51_P515952 Olfr668,MOR34-3
A_51_P368343 Zfp58,Mfg1,Mfg-1
A_51_P300146 Olfr974,MOR171-1
A_51_P215368 Slc6a17,Ntt4,D130012J15Rik
A_51_P193034 BU534286
A_51_P492389 Zfp11,Krox-6,Zfp-11,6720465D24
A_51_P328828 8430432M10Rik,MGC102190
A_51_P474738 Tagln2,Sm22B,Sm22a,SM22beta,2700094C18Rik
A_51_P105262 BC047219,MGC57098
A_51_P166623 D830030K20Rik
A_51_P463998 Ghrl,m46,MTLRP,MTLRPAP,2210006E23Rik
A_51_P407789 D030022P06Rik,SRCAP,1700008J07Rik
A_51_P518907 Serpinb12,2300003F07Rik,4833409F13Rik
A_51_P389977 Snrpa,U1A,Rnu1a1,Rnu1a-1,C430021M15Rik
A_51_P118552 S100g,CABP1,Calb3,Cabp9k,CaBP-D9K
A_51_P194959 BC032203,KIAA0240,mKIAA0240
A_51_P448778 Nr1h3,LXR,RLD1,Unr1
A_51_P194952 5730402E23Rik
A_51_P516067 Olfr486,MOR204-19
A_51_P298131 Cbx8,Pc3
A_51_P464279 Bmp15,Bmp-15,GDF-9B
A_51_P311576 Spock2,mKIAA0275
A_51_P193027 Prg1,Prg,Sgc
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A_51_P275635 lghg,hinge,MGC102604,MGC102659,CH1-domain,C
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A_51_P390117 Krt20,K20,CK20,KRT21,9030623C06Rik
A_51_P517488 Cxcr4,CD184,LESTR,Cmkar4,PB-CKR,PBSF/SDF-1
A_51_P311548 3732412D22Rik,mKIAA1102
A_51_P509440 A_51_P509440
A_51_P368336 Ercc5,Xpg
A_51_P194976 1300013D18Rik,CYPIID3,P450-DB3
A_51_P511187 BC025833,MGC37938
A_51_P390156 2600017H02Rik
A_51_P194968 A_51_P194968
A_51_P511192 4931429P17Rik
A_51_P328878 BC005471,MGC6652
A_51_P447002 Trp53bp2,53BP2,ASPP2,Tp53bp2,PPP1R13A
A_51_P520776 A_51_P520776
A_51_P190540 Mapk9,JNK2,Prkm9,p54aSAPK
A_51_P268874 ENSMUST00000070304
A_51_P368311 Vip,MGC107202
A_51_P194910 TC1067273
A_51_P518905 Ppp1r9b,MGC38940
A_51_P284095 Exoc8,EXO84,SEC84,Exo84p

A_51_P173785 Adam4,tMDCV
A_51_P332303 Edg1,lpB1,S1P1,lpB1
A_51_P509472 Bpi,9230105K17Rik
A_51_P240343 Chd1,4930525N21Rik
A_51_P227232 Olfr380,MOR135-1
A_51_P220310 Trp73,p73
A_51_P234777 Gpr45,PSP24alpha,9230112G11Rik
A_51_P441736 Slc7a2,Tea,Cat2,Atrc2
A_51_P159854 ENSMUST00000058913
A_51_P402354 Btla,A630002H24
A_51_P432076 AK054519
A_51_P268812 NAP057061-1
A_51_P268816 Rps6ka5,MSK1,RLPK,MSPK1,MGC28385,3110005L
A_51_P284076 Bai2
A_51_P448744 8030451K01Rik,KIAA4083,MGC107225,mKIAA4083
A_51_P234716 Ceacam14,1600021E03Rik,1600025E09Rik
A_51_P220314 BC006933,MGC11998
A_51_P325514 LOC433431
A_51_P358808 Ttn,mdm,shru,1100001C23Rik,2310036G12Rik,2310036G13Rik,2310036G14Rik
A_51_P342617 1700009P13Rik,MGC19351
A_51_P245468 AI838397
A_51_P268824 Slc2a6,Glut6,Glut9,A330096C23,F630103L12Rik
A_51_P159874 Magi3,4732496O19Rik,6530407C02Rik
A_51_P481989 Ranbp6,C630001B19
A_51_P516095 Cyld,EAC,CDMT,CYLD1,mKIAA0849,2010013M14R
A_51_P268833 NAP057108-1
A_51_P312465 Ap2a2,L25,Adtab,2410074K14Rik
A_51_P190573 Zkscan1,KOX18,PHZ-37,ZNF139,MGC63357,59304
A_51_P318315 Naalad2,GCPIII,D9Ertd285e,NAADALASE2,NAALAD2
A_51_P134542 2310005O14Rik
A_51_P455256 Rdh6,CRAD,MGC107668
A_51_P429382 Plcb2
A_51_P160187 dystrophin
A_51_P220341 V2r10
A_51_P313108 Olfr136,MOR256-7
A_51_P147984 Itlna,Lfr,IntL,Itln,Itln1,Itln2
A_51_P159813 4122402O22Rik,mKIAA1418
A_51_P208534 Prss36,C330007D15Rik
A_51_P187284 Il12a,p35,LI12a,Il-12a,IL-12p35
A_51_P312405 Vsx1,CHX10-like
A_51_P386508 4933434I20Rik
A_51_P353613 Ager,RAGE
A_51_P148892 Cd2bp2,1500011B02Rik,2410024K20Rik
A_51_P187252 Icsbp1,IRF8,ICSBP,IRF-8
A_51_P123442 0610007P22Rik,MGC113771,1110014B11Rik
A_51_P312417 Crisp1,Aeg1,CRISP-1
A_51_P485388 Parn,DAN,1200003I18Rik
A_51_P276453 Vamp1,Syb1,Syb-1,VAMP-1
A_51_P135117 Krtap13-1,KAP13.1,MGC41371
A_51_P441795 Glul,GS,Glns
A_51_P163468 Ddx17,Gm926,MGC79147,2610007K22Rik,A430025
A_51_P345100 BC057593,MGC67168

A_51_P100599 Ugt2b38,9430041C03Rik
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A_51_P160192 Nos1,NO,bNOS,nNOS,NOS-I,Nos-1
A_51_P495105 Hod,Hop,Ob1,Obl,Hdop,Toto,Cameo,1110018K11Ri
A_51_P362182 Olfr608,MOR26-3
A_51_P402398 Klh8,MGC102224,D5Ert431e,2310001P09Rik
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A_51_P167827 NAP108692-1
A_51_P284849 Lphn2,Lec1,Lphh1,MGC38872,mKIAA0786
A_51_P163482 5430403G16Rik
A_51_P305527 Eif2s3x,Eif-2gx
A_51_P256566 4933432P15Rik,mKIAA0621,1810044B20Rik,26100
A_51_P361478 Pld3,Sam-9
A_51_P397113 4933424G06Rik
A_51_P111944 Zic5,Opr,1700049L20Rik
A_51_P332957 Ptdsr,PSR,PtdSerR,mKIAA0585,D11Ert195e,57304
A_51_P349244 4833416E15Rik
A_51_P167876 Tfr,TFR,p90,CD71,TFR1,Tfr,Mtvr1,Mtvr-1,2610028
A_51_P349256 Msc,MyoR
A_51_P187222 1500015L24Rik
A_51_P500656 C630023L15Rik,MGC107143
A_51_P428903 4933411G06Rik
A_51_P152982 Grem2,Prdc,Gremlin2
A_51_P266611 Rdhe2,Scdr9
A_51_P495169 2610029G23Rik
A_51_P500696 Olfr715,MOR260-1
A_51_P275983 1110032O22Rik
A_51_P361491 Pou2f1,Otf1,Oct-1,Otf-1,Oct-1A,Oct-1B,Oct-1C,Oct-1
A_51_P479318 Acas2l,Acas2,AceCS2,1110032O15Rik
A_51_P453286 G630055P03Rik
A_51_P291922 Atp9a,Ila,mKIAA0611
A_51_P152977 Zp3,Zp-3
A_51_P182104 Unc5cl,2510009H09Rik
A_51_P329278 6230429P13Rik
A_51_P227342 Dpep1,MBD
A_51_P177319 Gpr34
A_51_P479349 1190002J23Rik,ESTM31
A_51_P177310 Zp2,Zp-2
A_51_P405955 Ccnl2,Pcee,SB138,ania-6b,HCLA-150,MGC21593,11
A_51_P177323 LOC208256
A_51_P266624 Dhh
A_51_P275995 BC026744,FLJ12750,MGC25614,2300007F24Rik
A_51_P406031 Ankrd1,Alrp,CARP,Crap
A_51_P106873 Slc39a1,Zip1,Zirtl
A_51_P225546 Lep,ob,obese
A_51_P438719 Nme6,nm23-M6
A_51_P292067 Hagh1,MGC101974,1500017E18Rik,2810014I23Rik,
A_51_P295649 Brd2,NAT,Rnf3,Frg-1,Fsrg1,Ring3,KIAA4005,mKIAA
A_51_P152918 Unc5c,rcm,Unc5h3,6030473H24,B130051O18Rik
A_51_P149291 Glt25d1,MGC38524,2810024B22Rik

A_51_P226849 Ctso,A430056C07,A330105D01Rik
A_51_P354728 1500041N16Rik
A_51_P485517 Scfd1,RA410,STXBP1L2,3110021P21Rik
A_51_P301966 Unc93b1,Unc93b
A_51_P197923 Zfp57,G19,Zfp-57
A_51_P271519 Ide,1300012G03Rik,4833415K22Rik
A_51_P457246 4933405D12Rik
A_51_P177341 Taf7,55kDa,Taf2f,TAFII55,Al607308
A_51_P226818 Rras
A_51_P492687 2810049P21Rik
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A_51_P106815 Kif21b,mKIAA0449,2610511N21Rik
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A_51_P259347 C130032F08Rik
A_51_P194843 Insr,IR,CD220,4932439J01Rik
A_51_P227352 Creg2,A830098L22Rik
A_51_P438713 Tbx18,2810012F10Rik,2810404D13Rik
A_51_P226834 Trim14,pub,5830400N10Rik
A_51_P291948 Gda
A_51_P301949 Rph3al,Noc2,Gm1753,6530413F01Rik
A_51_P354782 Lipg,EL,mEDL,3110013K01Rik
A_51_P193521 Cdk5rap1,2310066P17Rik
A_51_P163222 Opa1,1200011N24Rik
A_51_P291980 Gja9,cx36,connexin36
A_51_P178591 Mrpl1,2410002L03Rik,5830418D04Rik
A_51_P207451 BC024063,A130081B01
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A_51_P343890 4930471M23Rik,5730478O19Rik
A_51_P226808 Dsg1c,Dsg6,dsg1g,Dsg1gamma,9330156N18
A_51_P259360 Csrp2bp,D2Wsu131e,D2Ertd473e,E430020F17,251(
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A_51_P215288 4631424J17Rik
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A_51_P275930 Spire1,Spir-1,6030430B19Rik
A_51_P154750 Tsix
A_51_P305787 Rab36,6330593L16Rik
A_51_P486430 0610030I09Rik
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A_51_P441894 4631426H08Rik,Ka38,Krt25A
A_51_P390058 2810422M04Rik,DZIP1,mKIAA0996,2510025K24Rik
A_51_P486939 Ctdspl,SCP3,HYA22,2810418J22Rik
A_51_P477561 Hspb1,27kDa,Hsp25
A_51_P275979 Dok1,p62DOK
A_51_P343877 Vipr1,VPAC1,VIP-R1
A_51_P284370 Wibg,Pym,A030010B05Rik
A_51_P477553 Al844869
A_51_P266453 Calcr,Clr
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A_51_P492466 Arts1,ERAAP,PILSA,PILSAP

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A_51_P117829 Eml4,MGC90779,4930443C24Rik
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A_51_P343427 Mscp,1700020E22Rik,4930513O14Rik,4930526G11
A_51_P220629 4930469B13Rik
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A_51_P230815 Olfr412,MOR127-5P
A_51_P426984 TC1014218
A_51_P111670 Gpr149,PGR10,9630018L10Rik
A_51_P343437 Olfr1436,MOR214-2
A_51_P239357 1110006O24Rik
A_51_P134132 Tgn,cog
A_51_P473918 Phr1,Pam,C130061D10Rik
A_51_P470163 4833438C02Rik
A_51_P501892 Pitx2,Brx1,Ptx2,Rieg,Brx1a,Brx1b,Otlx2,Munc30,Pitx
A_51_P486927 lbsp,BSP
A_51_P518822 Acs16,LACS,Facl6,Lacsl,MGC36650,mKIAA0837,A3:
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A_51_P230808 6720457D02Rik
A_51_P130866 Vps13a,CHAC,chorein,KIAA0986,mKIAA0986,49304
A_51_P230832 Mib2,skd,Zzank1,2210008I11Rik
A_51_P445479 Fut7,FTVII,Fuc-TVII,FucT-VII
A_51_P422502 Olfr1333,MOR259-6,MOR259-11
A_51_P312757 Ins1,Ins-1,Ins2-rs1
A_51_P481039 Mrps11,0710005I03Rik
A_51_P120987 Pde4d,Dpde3
A_51_P336471 Xbp1,TREB5,XBP-1,TREB-5,D11Ert39e
A_51_P336443 Mphosph9,MPP9,MPP-9,4930548D04Rik,9630025B
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A_51_P234483 Tmod2,NTMOD,N-Tmod
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A_51_P446835 NAP057238-1
A_51_P230850 Plagl2,mKIAA0198
A_51_P167713 Wdr44,RPH11,RAB11BP,9130203L06,2610034K17F
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A_51_P296971 NAP057113-1
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A_51_P180175 LOC433882
A_51_P187574 M17518

A_51_P335151 ENSMUST00000061521
A_51_P118178 A_51_P118178
A_51_P407565 Huwe1,Ib772,LASU1,Ureb1,5430439H10Rik,C43001
A_51_P245532 mt-Nd4,ND4,URF4
A_51_P143014 ENSMUST00000056456
A_51_P111601 Ripk5,C820013G01,A930019K20Rik,C430014H23Ri
A_51_P365740 9030623N16Rik
A_51_P396864 Nola2,Nhp2,D11ErtD175e,2410130M07Rik
A_51_P495000 Golt1b,CGI-141,2310061A22Rik
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A_51_P305054 Siglec10,mSiglec-G,9830164H23,A630096C01Rik
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A_51_P349516 Glis3,E230012L24,4833409N03Rik,E330013K21Rik
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A_51_P253924 NAP057075-1
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A_51_P159555 Sin3b,2810430C10Rik
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A_51_P143082 1110055J05Rik
A_51_P246053 Dazl,Tpx2,Dazla,Tpx-2
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A_51_P291860 ENSMUST00000052426
A_51_P153717 Rasd1,Dexras1
A_51_P215168 1110015M06Rik
A_51_P511329 Ptgrf,fp,PGF
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A_51_P292513 V1ra8
A_51_P474535 Slc7a4,MGC27672
A_51_P246077 Samd8,1700010P07Rik
A_51_P106948 1700009P03Rik,Se70-2,Pro1777,C230097K14Rik
A_51_P300836 Thtpa,MGC38198
A_51_P300707 Srm,SpdSy
A_51_P256285 Ppp6c,2310003C10Rik
A_51_P256280 Acvr1,ALK2,Acvr,Alk8,SKR1,Alk-2,Tsk7L,ActR-I,ActF
A_51_P121304 4921507I02Rik
A_51_P454884 Gcap8
A_51_P203994 D630005C06Rik
A_51_P444283 Slamf8,Blame,SBBI42,5830408F06Rik
A_51_P106958 Sbp,p25

A_51_P354614 Tcrg-V4
A_51_P388822 Hpcal4,NVP-2
A_51_P320843 2610002M06Rik
A_51_P435487 1700007I08Rik
A_51_P278493 Accn5,Inac,Blinac
A_51_P474555 Cyp19a1,Ar,Int5,Cyp19,Int-5
A_51_P193642 Lcn12,9230102M18Rik
A_51_P514049 Stx17,4833418L03Rik,6330411F21Rik,9030425C21I
A_51_P399883 Ap4b1,Ap4b4,1810038H16Rik
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A_51_P163084 Xpr1,XR,Sxv,Rmc1,Syg1,Rmc-1
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A_51_P272584 Dym,MGC18957,1810041M12Rik,4933427L07Rik,C
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A_51_P276965 ENSMUST00000068338
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A_51_P314893 Ccm2,MGC37115
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A_51_P390734 Tjp1,ZO1,ZO-1
A_51_P314852 BC025519
A_51_P375036 BC059730
A_51_P118082 A_51_P118082
A_51_P207530 Acvr2a,Acvr2,ActRIIa,tActRII
A_51_P153773 D1Bwg0212e,C40,2410015L18Rik
A_51_P470928 Dhrr6,1810026B04Rik
A_51_P516626 Gata2,Gata-2
A_51_P399816 Usp46,1190009E20Rik,2410018I08Rik
A_51_P154624 NAP108530-1
A_51_P314839 A_51_P314839
A_51_P163164 3000004N20Rik
A_51_P481147 Opn1sw,Bcp
A_51_P488411 Sav1,Sav,WW45,Wwp3,Wwp4,1700040G09Rik
A_51_P388857 Tnfaip1,Edp1,Edp-1,Tnfp1
A_51_P275818 Dnajb4,1700029A20Rik,2010306G19Rik
A_51_P227003 Cks1b,Cks1,sid1334,2410005G18Rik,2610005D03R
A_51_P408340 Ifi204
A_51_P315361 ENSMUST00000064827
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A_51_P375047 1700081L11Rik,KIAA1267,MGC90742,mKIAA1267
A_51_P314812 2210419D22Rik
A_51_P375078 9930036E21Rik
A_51_P399825 Lsp1,p50,WP34,pp52,Lsp-1
A_51_P464021 Chst12,C4S-2,C4ST2,C4ST-2
A_51_P354692 Dnchc1,Loa,P22,DHC1,DNCL,DHC1a,Dnec1,MAP1C
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A_51_P441906 1810008O21Rik
A_51_P473823 A_51_P473823
A_51_P479737 Smarca4,Brg1,SW1/SNF,HP1-BP72,SNF2beta
A_51_P386798 1700017G19Rik
A_51_P470253 4933425M15Rik

A_51_P457107 Rbl2,Rb2,p130
A_51_P431747 V2r2
A_51_P495386 A_51_P495386
A_51_P285920 Rapgef4,Epac2,KIAA4040,mKIAA4040,1300003D15
A_51_P312623 Hist1h1t,H1t,H1ft
A_51_P178412 H2-T10
A_51_P480441 Olfr46,IB7,IF5,ID12,MOR253-8
A_51_P303797 Gria3,Glur3,Glur-3,KIAA4184,mKIAA4184,2900064I1
A_51_P481110 Axin2,Axi1,Axil,Conductin
A_51_P323365 Xpot,EXPORTIN-T,1110004L07Rik,3110065H13Rik
A_51_P402151 2300002M23Rik
A_51_P409416 AK089147
A_51_P336348 D19Ertd737e,2310065H12Rik,2610015K05Rik
A_51_P134333 Map3k7,Tak1,B430101B05
A_51_P483370 Txndc5,ERp46,PC-TRP
A_51_P342029 Mkrn3,Zfp127,D7H15S9-1
A_51_P253892 Psca,2210408B04Rik
A_51_P192189 NAP057226-1
A_51_P336306 Trim21,Ro52,Ssa1
A_51_P233002 Dffb,CAD,CPAN,40kDa,DFF40,Didff,5730477D02Rik
A_51_P163606 4932442K08Rik,MGC109687
A_51_P496234 1810014F10Rik
A_51_P285959 Apba3,mint3,Mint-3,X11gamma
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A_51_P470297 Ate1
A_51_P118037 Mpa2l
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A_51_P146467 Pank2,4933409I19Rik
A_51_P479181 Areg,AR,Sdgf
A_51_P386779 Mthfr
A_51_P353013 Mog
A_51_P461832 Tbp,mTBP,Gtf2d,SCA17,TFIID,GTF2D1
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A_51_P431707 Meis1,Evi8,C530044H18Rik
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A_51_P187009 2810417M05Rik
A_51_P495334 Neb
A_51_P241690 4921513O04
A_51_P381428 Xmr, MGC107294
A_51_P461868 Thbs2, TSP2, Thbs-2
A_51_P146440 6030446I19Rik, MGC38995
A_51_P386758 5830468K18Rik, MGC99963
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A_51_P412920 Epha2, Eck, Myk2, Sek2, Sek-2
A_51_P197796 Cbln4
A_51_P253834 Mt3, Mt-3
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A_51_P166167 Mapre3, EB2
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A_51_P256731 C85351
A_51_P289296 Matn3
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A_51_P498420 Krtap15, Pmg2, Pmg-2
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A_51_P313385 Tbx19, Tpit, D1Ertd754e
A_51_P182752 C1qtnf6, CTRP6, AI415568, 2810036M19Rik
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A_51_P266424 9830107B12
A_51_P522004 Dst, ah, dt, Bpag, BP230, Bpag1, Macf2, nmf203, BPAG1
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A_51_P215046 2310061J03Rik
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A_51_P414752 Defb15, Defb11, mBD-11
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A_51_P514338 Vhlh, VHL
A_51_P305388 AI840275

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A_51_P178301 Ss18l1,CREST,A230053O16Rik
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A_51_P329679 4933427E13Rik
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A_51_P404104 Fmnl1,Fmnl,Fnrl,Frls,8030453N10Rik
A_51_P153602 Mro,4930507C04Rik,4933435E20Rik
A_51_P451196 2010204K13Rik,Cip7,0610010M13Rik
A_51_P250733 Fut9,mFUT9,mFuc-TIX
A_51_P364366 Nhlh2,Hen2,NSCL2,Nscl-2,6230401I09Rik
A_51_P518578 Grcc2f,C2f
A_51_P313596 Wdfy2,ZFYVE22,5830485M08,B130024L21Rik
A_51_P353297 Rdh11,Mdt1,Psdr1,SCALD,Arsdr1,CGI-82,HCBP12,I
A_51_P324981 CB174485
A_51_P422528 NAP057104-1
A_51_P329649 Slc4a11
A_51_P242316 Al597479
A_51_P364372 Ggnbp1
A_51_P272483 Scfd2,STXBP1L1,9330137G15,E430013M20Rik
A_51_P329608 Tln2,AL118320,MGC100340,mKIAA0320,5730421P(
A_51_P282256 Hic2,HRG22,mKIAA1020
A_51_P246187 5033425B17Rik,Nifie14,2010004E11Rik
A_51_P479724 St6galnac3,Siat7c
A_51_P499923 Npepl1,mKIAA1974

A_51_P410525 Slc10a1,Ntcp
A_51_P364319 Kif13b,GAKIN,6030414C01,5330429L19Rik,C13002
A_51_P324958 Pcdha6,CNR,Cnr2,Crn2
A_51_P283986 Wnt2,Irp,Mirp,Wnt-2,Wnt2a,m-irp,Int111,2610510E18
A_51_P134062 Stxbp2,Sxtbp2,Unc18b,Munc-18b,Munc-18-2
A_51_P197516 Trim32,1810045E12Rik
A_51_P375768 Ptchd1,Gm387,9630036J22Rik
A_51_P121413 Slc35a4,2610030J16Rik
A_51_P370805 Olfr1143,MOR177-14
A_51_P414909 AF240180
A_51_P390439 Wdr5,Big,Big-3,2410008O07Rik
A_51_P315617 Kcnab1,Akr8a8,Kvbeta1.1,mKv(beta)1
A_51_P153642 BU519527
A_51_P256968 5832418A03Rik,Gm506
A_51_P239783 Kcnj11,mBIR,Kir6.2
A_51_P109953 Xpo4,mKIAA1721,B430309A01Rik
A_51_P109969 1700001C02Rik,1700047H18Rik
A_51_P315657 NAP057007-1
A_51_P512754 Nicn1,1500032A17Rik
A_51_P324970 Olfr821,MOR109-1
A_51_P427932 Egfl4,mKIAA0817
A_51_P148592 Prpf18,2810441A10Rik
A_51_P318168 Gata1,Gf-1,Gata-1
A_51_P413445 4930552N02Rik
A_51_P375750 Hoxc10,Hox-3.6
A_51_P445006 D5Ertd135e,9130208G10
A_51_P210106 Neu3
A_51_P134052 B3gnt7,beta-3GnT7,C330001H22Rik
A_51_P520019 Cdc6,CDC18L
A_51_P239757 Jub
A_51_P445032 Nr1i3,CAR,CAR1,CAR2,MB67,mCAR,Care2,ESTM3
A_51_P210155 Il31,1700013B14Rik
A_51_P234001 Grin1,NR1,Nmdar,NMDAR1,GluRdelta1
A_51_P178152 1700123L14Rik
A_51_P278363 Dner,BET,Bret,MGC39059,A930026D19Rik
A_51_P492934 Pcdha7,Cnr4,Crn4,MGC90581
A_51_P339115 Cabp4,2410038D05Rik
A_51_P234034 Hist1h4j
A_51_P207080 Wdr43,Wrd43,mKIAA0007,2610318G08Rik
A_51_P315696 NAP057122-1
A_51_P336068 Lcat,D8Wsu61e
A_51_P210174 2310006M14Rik
A_51_P496551 St3gal3,Siat3,Siat6
A_51_P194453 Sbf1,Mttr5,MGC37151,mKIAA3020,2610510A08Rik
A_51_P131300 Rln1,Rln,rlx
A_51_P293215 Slc30a8,ZnT-8,C820002P14Rik
A_51_P278333 Vldlr
A_51_P421809 Hspa14,70kDa,NST-1,HSP70L1,Hsp70-4
A_51_P148542 Ctla4,Cd152,Ly-56,Ctla-4
A_51_P483659 Trim3,HAC1,BERP1,Rnf22
A_51_P339126 A_51_P339126
A_51_P465785 Zfp111

A_51_P110029 Pik3r4,D9Ertd418e,2210010O15Rik,C730038E05Rik
A_51_P315681 C330012H03Rik,Imp2,IMP-2
A_51_P187199 Gpr63,Psp24-2,PSP24beta
A_51_P115630 Shank3,Shank3b
A_51_P213031 D930010J01Rik
A_51_P488638 Bmp1,TLD
A_51_P500321 Sox5
A_51_P221127 A_51_P221127
A_51_P134085 ENSMUST00000062033
A_51_P234092 A_51_P234092
A_51_P194479 1110059G10Rik
A_51_P375787 Vpreb3,8HS-20,Vpreb-3
A_51_P491862 ENSMUST00000068109
A_51_P496549 Sh2d1b,Eat2,EAT-2
A_51_P123753 BC011467,MGC37865
A_51_P386214 G1p2,IP17,Irfp,UCRP,15kDa,IGI15,Isg15,MGC10314
A_51_P386218 Dscr1l2
A_51_P397279 A_51_P397279
A_51_P407987 Grifin,E130101O17Rik
A_51_P285437 A930033C01Rik,mKIAA0318
A_51_P336019 Ilf2,Tex261,Tex267,TEG-267,6230405A16Rik
A_51_P233533 Adamts5,ASMP-2,ADAMTS1,ADAM-TS5,ADAMTS1
A_51_P296583 B3galt5,b3Galt-V,1190002B21Rik
A_51_P285473 F2r,Cf2r,Par1,ThrR,MGC28086
A_51_P495459 Gpr156,Gababl
A_51_P221189 2400003N08Rik,mSds3
A_51_P245960 Cebpb,LAP,CRP2,NF-M,Nfil6,NF-IL6,IL-6DBP
A_51_P316791 D0Kist2,CAG-3
A_51_P213070 9230119C12Rik
A_51_P221155 TC996714
A_51_P397257 A_51_P397257
A_51_P213087 0610039A15Rik,AW260416
A_51_P241551 Wdr37,mKIAA0982,6430603N07,3110035P10Rik,49
A_51_P466279 Hoxa10,Hox-1.8,Hoxa-10
A_51_P289546 NAP108727-1
A_51_P103558 2410018E23Rik
A_51_P274852 Egl3,SM-20,2610021G09Rik
A_51_P204795 2810452K22Rik,Cinp,1810047K05Rik
A_51_P371937 NAP057199-1
A_51_P217244 A_51_P217244
A_51_P390318 Wdfy1,Jr1,WDF1,FENS-1,ZFYVE17,KIAA1435,mKIAA
A_51_P396812 2900009I07Rik,2410124L17Rik
A_51_P396815 2810428I15Rik
A_51_P258268 1500041J02Rik,1700030I21Rik,9530077A17Rik
A_51_P392445 2610020C11Rik,mszf12,mszf23-1,A630094N24Rik
A_51_P371911 Olfr28,MTPCR11
A_51_P509276 1810006K21Rik
A_51_P286678 A_51_P286678
A_51_P482348 NAP056999-1
A_51_P476423 4931431C02Rik,mKIAA1395,2410095B20Rik
A_51_P168446 Tmem7,Rtp3
A_51_P315800 Tubb4,Tubb,M(beta)4

A_51_P217226 AI852640
A_51_P228004 NAP027338-1
A_51_P135142 Slpi
A_51_P120912 Sgcz,C230085N17Rik
A_51_P228505 BI855434
A_51_P509264 Hoxa7,Hox-1.1
A_51_P371923 Sdc1,Synd,CD138,Synd1,syn-1
A_51_P138671 1700064K09Rik
A_51_P180517 Efcbp1,NECAB1,STIP-1,1700003H21Rik
A_51_P277174 Mapk11,P38b,Sapk2,p38-2,Prkm11,Sapk2b,p38beta
A_51_P476443 5430405G05Rik
A_51_P405875 Dmtf1,Dimp,Dmp1
A_51_P462629 Gabrp,MGC38123
A_51_P302617 NAP108592-1
A_51_P513965 BC003885,MGC6735
A_51_P120976 ENSMUST00000063353
A_51_P392473 5730485H21Rik
A_51_P480590 Olfr1181,MOR225-9P
A_51_P509240 3830405G04Rik,5630400M01Rik
A_51_P175611 Pde6c
A_51_P514776 Btrc,FWD1,Fbw1a,Slimb,b-TrCP,mSlimb,KIAA4123,t
A_51_P168456 Ifitm2,mil-3,Ifitm3l,MGC102396,fragilis3
A_51_P135132 St3gal4,Siat4c
A_51_P372472 Auh
A_51_P269293 Mustn1,Mustang,1110028G01Rik
A_51_P263279 Slitrk4,6430513G13,D930039I09Rik
A_51_P487481 Speer4d,SPEER-4D,4933431D05Rik
A_51_P466359 Arhgap19,FLJ00368,mFLJ00368,4933411B03Rik
A_51_P263276 A_51_P263276
A_51_P503719 Hoxd10,Hox-4.5,Hox-5.3
A_51_P238244 AI841971
A_51_P225306 Olfr1371,MOR256-58,GA_x6K02T2QP88-3214035-3
A_51_P179508 Ang3,Ang5,Angl,Rnase5c
A_51_P356612 Rab39b,6330580M05Rik
A_51_P322903 NAP108448-1
A_51_P414168 Rnf7,SAG,Rbx2
A_51_P313651 D11Bwg0517e
A_51_P469950 Srgap3,Gbi,WRP,MEGAP,Arhgap14,mKIAA0411,D1
A_51_P144690 Abcb10,Abc-me,Abcb12
A_51_P159172 Pik3c2a,Cpk-m
A_51_P269272 Ube2d3,1100001F19Rik,9430029A22Rik
A_51_P201054 Cmkor1,Rdc1
A_51_P286399 2610524H06Rik
A_51_P476489 LOC433022
A_51_P232039 ENSMUST00000050332
A_51_P493608 NAP057038-1
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A_51_P471132 NP_TR6JSE50FPA,MGC67752,GA_x5J8B7TQSKC-
A_51_P514733 Atxn2l,A2D,A2LG,A2RP,A2lp,Atxn12
A_51_P455240 BC011248,MGC19067
A_51_P252890 AA673513
A_51_P269236 Folr4,Folbp3,0910001L11Rik

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A_51_P156332 Trpm8,CMR1,TRPP8,LTRPC6,MGC2849
A_51_P212103 Ctnnbl1,NAP,P14L,FLJ21108,NYD-SP19,5730471K
A_51_P313624 Al931714
A_51_P289587 Ube2e3,Ubce4,ubcM2
A_51_P232017 Atp4b
A_51_P341011 Ercc8,Csa,Ckn1,2410022P04Rik,2810431L23Rik,46
A_51_P277183 A_51_P277183
A_51_P101665 Capza1,CAPZ,CAZ1,Cappa1
A_51_P222973 Zfp286,MGC39058
A_51_P180904 Pcsk6,SPC4,Pace4
A_51_P514714 Parp14,KIAA1268,MGC29390,mKIAA1268,1600029
A_51_P337144 Plec1,PCN,EBS1,PLTN
A_51_P424130 Rnaseh2a,RNHL,RNHIA,RNASEHI,2400006P09Rik
A_51_P313602 V1ra7,VN3
A_51_P443394 Otub1
A_51_P222273 Ikbke,Ikki,IKK-i
A_51_P136025 Ube2v2,MMS2,MGC102399,6820402M05,4632410C
A_51_P490217 Nudt11,DIPP3,DIPP3b,Nudt10
A_51_P419370 0610012A11Rik
A_51_P102225 Skp1a,OCP2,SKP1,p19A,15kDa,EMC19,OCP-II,Tce
A_51_P415806 Tusc1,TSG-9,2200001D17Rik
A_51_P277195 4921521N14Rik,MGC47315
A_51_P488988 D9Ucla1,D130038B21Rik
A_51_P129937 Strn3,Gs2na,SG2NA
A_51_P252819 ENSMUST00000054264
A_51_P345643 Tcf11,YL-1
A_51_P287496 BC021921,HIT-40,MGC28841
A_51_P350883 Dbt,D3Wsu60e
A_51_P225384 Dbr1
A_51_P135186 Sec14I1,1200017E04Rik,2810012L19Rik
A_51_P503042 Nr2e1,TLL,Tlx,frc,Mtl1,Mtl1,XTLL,fierce
A_51_P392636 Crisp2,Tpx1,Tpx-1,GAPDL5,CRISP-2
A_51_P503743 Ing1l,ING2,P33ING2,2810011M06Rik
A_51_P472741 Rwdd2,1700030C20Rik
A_51_P423820 4930417P05Rik
A_51_P465931 Ryr1,Ryr,skrr
A_51_P102285 2900055D14Rik,1700113I01Rik
A_51_P243525 Plp2,mIMA4,MGC102445,MGC103126
A_51_P467598 Cdc23,6030435O18,D18Ert243e
A_51_P450107 Cpn1,CPN,0610011F20Rik
A_51_P503014 NAP057241-1
A_51_P102273 Pcnt1,frount,MGC105225
A_51_P445999 9430025M13Rik
A_51_P165335 Anxa2,Cal1h
A_51_P424168 Bcdo2,B-diox-II
A_51_P251104 A_51_P251104
A_51_P295265 Zfp39,Zfp-39,CTfin33
A_51_P487077 Wfdc12,WAP2,Swam2,MGC32134
A_51_P465918 Fbxw8,FBW6,FBW8,Fbx29,FBXO29,4930438M06Ri
A_51_P243544 Kif16b,mKIAA1590,8430434E15Rik

A_51_P430552 G6pc3,UGRP,0710001K01Rik
A_51_P107612 Dncl2a,DNLC2A,2010012N15Rik,2010320M17Rik,9
A_51_P251131 Stard8,KIAA0189,mKIAA0189
A_51_P391694 Sgpl1,Spl,D10Xrf456
A_51_P437882 Zfp98,Mzf1,Mzf2,Mzf-2,Znf42,Zfp121
A_51_P310340 Mid2,FXY2,Trim1
A_51_P243513 4732474O15Rik,Gm267
A_51_P136084 Slc6a15
A_51_P410853 Rps6ka6,RSK4,2610524K04Rik
A_51_P398633 Adra2c,[a]2C,Adra-2c,alpha2C,alpha2-C4
A_51_P177721 Troap,tastin,E130301L11Rik
A_51_P494535 5730446C15Rik,Cgi67,MGC40949
A_51_P434908 Myl3,Mylc,VLC1,MLC1s,MLC1v
A_51_P231511 Crtac1,2810454P21Rik
A_51_P455296 BI731739
A_51_P185114 Tsga13,Vme1,1700023D02Rik
A_51_P457636 Lpd,BG1,mKIAA0631,E230019G03Rik
A_51_P144770 2410002F23Rik
A_51_P310820 Hoxa5,Hox-1.3
A_51_P124242 Olfr381,MOR135-4
A_51_P310397 Tk2
A_51_P424438 NAP057256-1
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A_51_P494529 Prx,L-Periaxin
A_51_P170350 5830417I10Rik,1500041I23Rik,2610100B20Rik,3632
A_51_P231526 Tgif
A_51_P295277 Myst3,MOZ,Zfp220,1500036M03,9930021N24Rik
A_51_P198673 BC021608,MGC25970,MGC37247,MGC37838,MGC
A_51_P367372 4933404G15Rik,4933401J20Rik
A_51_P351749 Tirap,Mal,wyatt,Tlr4ap
A_51_P264544 4933427E11Rik
A_51_P478739 Tlx1,Hox11,Hox-11
A_51_P110336 4930405J24Rik,1700062D20Rik
A_51_P124261 Pcdh9,Gm297,Gm1213,1500001L12Rik,A730003J17
A_51_P148926 AF357499
A_51_P367323 Sh2bpsm1,Irip,SH2-B,SH2-Bb,mKIAA1299
A_51_P101294 A_51_P101294
A_51_P489208 Car15
A_51_P478708 NAP057242-1
A_51_P180681 Noxa1,NY-CO-31,SDCCAG31
A_51_P465042 Pole4,2400007P05Rik,5830430F06Rik
A_51_P295210 Brip1,OF,BACH1,3110009N10Rik,8030460J03Rik
A_51_P367355 Slc4a1ap,kanadaptin
A_51_P148935 AK048538
A_51_P401568 Cyp26a1,RAH,Cyp26,P450RA,P450RAI,MGC13860
A_51_P351765 2410026K10Rik,1110061M03Rik
A_51_P251184 Rptn
A_51_P110310 1110019B22Rik,0610006I13Rik
A_51_P393694 Ptpla
A_51_P214049 A630038E17Rik,TRDV4,A430070I15
A_51_P287467 Clta
A_51_P204238 Dnajc3,p58,mp58,Prkri

A_51_P110356 Grid1,GluRdelta1
A_51_P391626 Akr1d1,MGC25814
A_51_P168566 A_51_P168566
A_51_P437839 Mylc2pl,PLRLC,PLRLC-A,PLRLC-B,PLRLC-C,1700C
A_51_P180621 Cdc42ep1,CEP1,Borg5,MSE55,MGC103067,181005
A_51_P356983 NAP108708-1
A_51_P102679 Gnpda2,Gnp2,Sb52,GNPDA,KIAA4008,mKIAA4008,
A_51_P180654 Scrn1,SES1,KIAA0193,mKIAA0193,2810019K23Rik,
A_51_P168506 AI255177
A_51_P180641 Fgf5,go,Fgf-5,angora
A_51_P319154 0610037M15Rik
A_51_P513776 LOC380823
A_51_P483961 4930583K01Rik
A_51_P297399 1110002E23Rik
A_51_P401591 4930519G04Rik,1700014B12Rik
A_51_P180602 Olfr77,18A,MOR143-1
A_51_P277005 Chst8,1500011J21Rik
A_51_P372302 2010002M12Rik
A_51_P326263 AI504208
A_51_P168515 Ttc16,1200002K10Rik
A_51_P416535 Eps8l1,DRC3,EPS8R1,2310051G19Rik,4632407K17
A_51_P269367 C330027I04Rik,2610037D24Rik
A_51_P172513 Sh2d1a,SAP
A_51_P142548 Slc17a7,Vglut1,2900052E22Rik
A_51_P423893 Cd28
A_51_P403793 Spnb3,KIAA0302,MGC99874,mKIAA0302
A_51_P183087 2010007L08Rik
A_51_P462563 Icam1
A_51_P277063 4921539E11Rik
A_51_P326204 Sp8,mBtd,MGC105193,D930049B17Rik
A_51_P179181 Phf17,Jade1,mKIAA1807,D530048A03Rik
A_51_P424485 Trap1a,Tra-P1A
A_51_P108141 Rbm7,1200007M24Rik,1500011D06Rik
A_51_P248725 Ypel3,Suap,0610043B10Rik,1190001G19Rik
A_51_P446227 Rpl18a,2510019J09Rik
A_51_P191611 Cat,Cas1,Cs-1,Cas-1,2210418N07
A_51_P108178 Tnmd,ChM1L,tendin,1110017I01Rik
A_51_P245055 Cst11,CRES2,mCST E1,9230101F08Rik
A_51_P393602 Atp6v1d,VATD,Vma8,Atp6m,1110004P10Rik
A_51_P446238 Dbn1
A_51_P201145 4930469P12Rik,Ghiso
A_51_P144795 V1rc21,C230065D10Rik
A_51_P302718 Slc25a16,GDA,GDC,ML7,HGT.1,3110021G18Rik
A_51_P446202 Set,StF-IT-1,2610030F17Rik,5730420M11Rik
A_51_P172523 NM_146009
A_51_P369850 Prima1,PRiMA,B230212M13Rik
A_51_P107477 Gpr126,DREG,Gm222,1190004A11Rik
A_51_P114151 Foxn1,nu,Whn,nude,Hfh11,D11Bhm185e
A_51_P151794 A_51_P151794
A_51_P129475 Ccl21c,SLC,CKb9,TCA4,Scya21c,exodus-2
A_51_P172565 Mrpl15,Rpml7,MRP-L7,HSPC145
A_51_P119562 Ndufc1,KFYI,MGC106656,2310016K22Rik

A_51_P317704 Ube1x,Sbx,A1S9,Ube-1
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A_51_P114105 1110056A04Rik,KIAA4170,mKIAA4170,9830112J03
A_51_P103837 Sp7,C22,Osx,6430578P22Rik
A_51_P479832 Zxda,4933406P09Rik
A_51_P489839 5730460C07Rik
A_51_P329188 Flnb
A_51_P471041 Olfr996,MOR175-4
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A_51_P356692 Krtap16-1
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A_51_P419293 9130211I03Rik,Snft
A_51_P136358 Mppe1,A530095G11
A_51_P479427 Rttm,D230040K24,4921538A15Rik,C530033I08Rik
A_51_P304857 Za20d3,Awp1,3110005P07Rik
A_51_P424470 Cnih3,2900075G08Rik
A_51_P156253 Eya4
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A_51_P356962 Lgi3
A_51_P302796 1810012H11Rik
A_51_P319164 Rgs9bp,R9AP,Rgs9-1bp
A_51_P232530 Shox2,OG12,Prx3,SHOT,Og12x,6330543G17Rik
A_51_P321351 BC019806,MGC30933,2410002F01Rik
A_51_P232547 Nphp3,pcy,C230078J01,3632410F03Rik,D330020EC
A_51_P231447 NAP057157-1
A_51_P317798 Ylpm1,ZAP,Zap3,A930013E17Rik
A_51_P232508 BC039161
A_51_P459988 NAP108728-1
A_51_P310225 Ubb,Ubb2
A_51_P423973 Crem,ICER
A_51_P334376 Nab2
A_51_P344456 1500031I19Rik
A_51_P384246 Dusp13,MDSP,TMDP,Gm1203,TS-DSP6,LMW-DSP
A_51_P472419 Ubqln2,Dsk2,Chap1,Plic2,Plic-2,HRIHFB2157
A_51_P430637 Gstm6
A_51_P334361 Olfr1188,MOR238-2
A_51_P334331 Isl2,3110001N10Rik
A_51_P484010 Epim,MGC54718
A_51_P424423 Pcsk1,PC1,PC3,Nec1,SPC3,Nec-1,Phpp-1
A_51_P243604 Ppp1r10,FB19,CAT53,PNUTS,D17Ertd808e,261002
A_51_P231464 Mosg
A_51_P344402 BC003324,MGC7036
A_51_P295195 5033405K12Rik,MGC47019,mKIAA1458,8030444K1
A_51_P251023 Plscr2,Plscr1
A_51_P317788 1110055N21Rik,mKIAA1698
A_51_P355434 Trib1,Trb1,TRB-1,A530090O15Rik
A_51_P495115 Csrp1,CRP1,Csrp
A_51_P295145 LOC236509

A_51_P243663	Aox4,AOH2,2310003G12Rik	
A_51_P279916	Slc26a1,Sat1	
A_51_P499997	Al413466	
A_51_P424412	Tcap	
A_51_P367661	Cct8,Cctq	
A_51_P280827	A_51_P280827	
A_51_P413021	AB041803,MNCb-1768	
A_51_P465141	3632451O06Rik	
A_51_P484042	Mrgprb3,MrgB3	
A_51_P468200	A_51_P468200	
A_51_P463596	Olfir549,MOR31-3	
A_51_P144890	9230104L09Rik,mCST E2	
A_51_P499190	Nkg7,2500004F03Rik	
A_51_P248365	NAP108671-1	
A_51_P287513	V1rh14	
A_51_P308223	NAP057115-1	
A_51_P127865	Zfp113,KIAA4229,mKIAA4229,4732456B05Rik	
A_51_P231414	NAP057067-1	
A_51_P468218	A_51_P468218	
A_51_P243641	BC032281	
A_51_P433731	Nucb1,Nucb,MTEST82,B230337F23Rik	
A_51_P243645		4.93E+23
A_51_P308267	P2rx4,P2X4,D5Ert444e	
A_51_P308257	NAP057183-1	
A_51_P465125	Atp13a5,C630015F21Rik	
A_51_P395711	1700069L16Rik,1700096P12Rik	
A_51_P423943	ENSMUST00000067369	
A_51_P350179	TC1041770	
A_51_P140415	Hoxa4,Hox-1.4	
A_51_P231439	2610306H15Rik	
A_51_P413058	Mcpt8,MMCP-8	
A_51_P398592	Cpa1,Cpa,0910001L12Rik	
A_51_P432398	Fgfr2,Bek,Fgfr7,Fgfr-2,Fgfr-7,KGFRTr,MGC102519	
A_51_P392684	Vim,MGC102095	
A_51_P287577	NAP057117-1	
A_51_P327870	Pthr1,PPR,Pthr,PTH1R	
A_51_P457599	Otos,OTOSP	
A_51_P270650	Olfir750,MOR103-18	
A_51_P279993	Slc4a7,NBC3,NBCn1,C330023F04,E430014N10Rik	
A_51_P443143	Tpt1,Trt,TCTP,fortilin	
A_51_P443084	Abca3,Abc3,ABC-C,MGC90532,1810036E22Rik	
A_51_P218902	2410066E13Rik,B230212L03Rik	
A_51_P110262	Sf3b2,SF3b1,145kDa,SAP145,SF3b145,SF3b150,2E	
A_51_P465102	Srfbp1,p49/STRAP,2810036K01Rik	
A_51_P170215	Btg2,Pc3,TIS21	
A_51_P367630	Calu,9530075H20Rik	
A_51_P424498	Txn1,ADF,Txn	
A_51_P243693	Zcchc6,MGC38585,6030448M23Rik	
A_51_P279985	Cda,MGC67370,2210401N16Rik	
A_51_P517455	Cdx2,Cdx-2	
A_51_P443113	NAP057297-1	
A_51_P416315	Ptgds2,H-PGDS	

A_51_P372253 Ccbp2,D6,CCR9,CCR10,Cmkbr9
A_51_P395741 Srp72,72kDa,5730576P14Rik
A_51_P416673 Krt2-1,Krt-2.1
A_51_P450018 2010110M21Rik
A_51_P168268 Chd1l,Snf2p,4432404A22Rik
A_51_P429058 Col3a1,Ms10w,Col3a-1,MMS10-W,KIAA4231,mKIAA
A_51_P449449 A_51_P449449
A_51_P110249 Rhoa,Arha,Arha1,Arha2
A_51_P327866 Bbs7,8430406N16Rik
A_51_P308915 1110037P11Rik,MGC107699
A_51_P468260 TC995224
A_51_P395758 1500003O03Rik,Chp,Cahp,Sid470p
A_51_P113788 Prp19,PSO4,Snev,NMP200,D19Wsu55e
A_51_P319234 Usp48,Usp31,MGC25724,2810449C13Rik,D330022I
A_51_P379702 Fxyd7,1110035I01Rik
A_51_P260428 Ptpn14,PTP36
A_51_P280851 TC1051519
A_51_P248269 Thoc1,NMP-84,MGC28284,3110002N20Rik
A_51_P119659 G0s2
A_51_P515364 Sfrs16,Clasp,Swap2
A_51_P429032 9130404D14Rik
A_51_P306415 NAP057220-1
A_51_P355492 Adnp,mKIAA0784
A_51_P352532 Trim12,2310043C01Rik
A_51_P248243 Nfe2l3,Nrf3
A_51_P416606 1810058I24Rik
A_51_P144850 Pcdh20,PCDH13,C630015B17Rik
A_51_P168239 ENSMUST00000051943
A_51_P264826 Lag3,Ly66,CD223,LAG-3
A_51_P352565 Mrpl38,Rpml3,MRP-L3,MGC8310,MGC41062,47334
A_51_P515349 4933424M23Rik,SAF,Pgs1,2610019F11Rik
A_51_P180711 E130306D19Rik
A_51_P179251 4832420M10
A_51_P168227 1810063B05Rik
A_51_P319244 Fgf10,FGF-10
A_51_P123615 AW456874
A_51_P119235 Xin
A_51_P179243 Tssc4,ESTM671070
A_51_P317417 AK087383
A_51_P356922 Orc1l,Orc1,MmORC1
A_51_P449434 Adck2
A_51_P229915 1810054G18Rik
A_51_P466458 Abca15,4930500I12Rik
A_51_P428296 1700003E24Rik,MGC107104
A_51_P392604 ENSMUST00000049844
A_51_P155816 6430550H21Rik,4933417N17
A_51_P237983 Tcea1,S-II,MGC103154
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A_51_P416349 Mjd,ATX3,MJD1,Sca3,2210008M02Rik
A_51_P468170 Hmgn1,Hmg14,HMG-14,MGC103397
A_51_P201635 Unc119,HRG4,Unc119h
A_51_P482618 Csen,DREAM,KChIP3,Kcnp3,4933407H12Rik

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A_51_P287897 Pvr11,PRR,HlgR,HveC,PRR1,Cd111,nectin-1
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A_51_P317436 Mesp2
A_51_P459803 Mtf1,MTF-1
A_51_P159350 Thrap3,Trap150,MGC37192,MGC116673,9330151F
A_51_P482123 Edn2,VIC
A_51_P136269 Csnk1d,1200006A05Rik
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A_51_P484908 NM_177269
A_51_P136250 Gpr73,Pkr1,EG-VEGFR1
A_51_P510573 Smad2,Madh2,Madr2
A_51_P319201 2610510H01Rik,mKIAA1470,2610529N02Rik
A_51_P237926 Slc6a7,PROT,MGC61029,MGC67444
A_51_P372291 4930566A11Rik
A_51_P317428 Psat1,PSA,EPIP,Psat,D8Ert814e
A_51_P155875 Ppp1r3g,1600032L17Rik
A_51_P136229 Kras2
A_51_P510560 Zfyve28,Gm146,mKIAA1643,9630058O20Rik
A_51_P427162 9030625A04Rik
A_51_P162892 4933405L10Rik
A_51_P497041 Dtprr,DPRP,D/tPRP
A_51_P450088 Col6a3,Col6a-3
A_51_P398464 1110063F24Rik
A_51_P459820 1700021F07Rik
A_51_P162886 A_51_P162886
A_51_P229990 Rsb30,5033421K01Rik
A_51_P262973 Prrx1,K-2,Pmx1,Prx1,mHox,A230024N07Rik
A_51_P277792 Ctsh
A_51_P119266 Zfx,Zfx5,Zfx6,Zfx5,6
A_51_P232618 4931427F14Rik,PF6
A_51_P317253 Defb11,Defb8
A_51_P277781 Creb3,Luman,LZIP-1,LZIP-2
A_51_P156162 Slc38a4,Ata3,mATA3,1110012E16Rik,1700012A18F
A_51_P384873 Mip,Cat,Hfi,Lop,Svl,Aqp0,MIP26,shrivelled
A_51_P260457 A_51_P260457
A_51_P423954 Cnga2,Cnca,Cncg4,OCNC1
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A_51_P314612 D930015E06Rik,mKIAA0922
A_51_P370960 9030624J02Rik,2610029J22Rik
A_51_P385302 Stk32c,PKE,Pkek,YANK3
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A_51_P222042 NAP057126-1
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A_51_P144251 BC019731,MGC30809,MGC37596
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A_51_P380468 Thrap2,Trap240L,mKIAA1025,2210413117Rik,63305
A_51_P398436 Lrrk1,MGC28646,mKIAA1790,D130026O16Rik
A_51_P459874 6330411E07Rik
A_51_P295079 NAP057124-1
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A_51_P242808 Atp1a3,Atpa-2,MGC27631,MGC38713,MGC38914,M
A_51_P446623 Cd99l2,Xap89,Mic2l1
A_51_P173851 Apba2,X11L,XllL,mXllL,X11-like
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A_51_P139618 5730416F02Rik
A_51_P295053 Ninj1
A_51_P401723 2010321M09Rik
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A_51_P189065 Olfr1201,MOR230-2
A_51_P519773 Neurod5,Atoh6
A_51_P334216 Eya2
A_51_P193259 Rdbp,RD,NELF-E,D17H6S45
A_51_P298684 Maff
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A_51_P397830 Tceb2,0610040H15Rik
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A_51_P308351 Dact2,dapper2,A630024E20,2900084M21Rik
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A_51_P347052 Actl6b,Actl6,ArpNa,Baf53b
A_51_P396589 Rnf25,AO7,0610009H16Rik
A_51_P485852 Olfr1104,MOR207-1
A_51_P204074 Exosc4,Rrp41,1110039I09Rik,1500001N04Rik
A_51_P286788 Zfp275,DXPas8,DXBay20,DXHXS52,5430431L06Ril
A_51_P270314 Crmp1,DRP-1,Ulip3,Dpysl1
A_51_P379401 Entpd6,Cd39l2,NTPDase-6,2700026H11Rik
A_51_P355912 A_51_P355912
A_51_P124039 8430423A01Rik,Nucks,C78391,2700010L10Rik

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A_51_P302983 Ms4a4c,Ms4a9,5830413L19Rik
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A_51_P401745 Mettl2,METL,PSENIP1,MGC107608,5730478C12,D'
A_51_P264740 Ddc,Aadc
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A_51_P190604 Nup107
A_51_P513571 Ces2,ces2A3
A_51_P264704 Pcdhb13,Pcdbh6,PcdhbM
A_51_P151152 Kik7,SCCE,Prss6
A_51_P248516 Pmpca,P-55,Alpha-MPP,1200002L24Rik,4933435EC
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A_51_P367196 Ap3s1,[s]3A
A_51_P505694 Pps,C62
A_51_P476377 Cplx1,921-S
A_51_P283404 Rbm9,Fxh,Fbm2,Hrnbp2,2810460A15Rik
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A_51_P164004 NAP057209-1
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A_51_P476334 Nudt15,MTH2,6530403O17,A730068G11Rik
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A_51_P509356 3110052D19Rik
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A_51_P135022 Zbtb11,ZNF-U69274,9230110G02Rik
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A_51_P265057 NAP057048-1
A_51_P226295 Tomm20,MAS20,MOM19,TOM20,MGC6333,mKIAA(
A_51_P228149 Adra2b,[a]2B,Adra-2b,alpha2B,alpha2-C2
A_51_P356847 Olfr320,MOR285-5,GA_x6K02T2NKPP-730312-729(
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A_51_P411599 Rfwd2,Cop1

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A_51_P468463 Gdpd5,MGC31332,MGC37148
A_51_P192199 Olfr593,MOR24-2
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A_51_P119725 Gpx1,Gpx,CGPx,GPx-1,GSHPx-1
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A_51_P265096 Aasdhppt,LYS2,LYS5,CGI-80,AASD-PPT,2010309J
A_51_P260499 9330140K16Rik,Asef,ARHGEF4
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A_51_P289872 D13Wsu64e,MGC78318,A630096F19
A_51_P384961 M29244
A_51_P349777 Tceal3,MGC107171,1100001D19Rik,1500026B10Ri
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A_51_P340603 1110014N23Rik
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A_51_P415176 Ppp1r16a,Mypt3,2900084E10Rik
A_51_P310026 Naca,skNAC,mKIAA0363
A_51_P466883 Scoc,0610011C06Rik,2810002J11Rik
A_51_P493356 Eif4a1,Eif4,Ddx2a,BM-010
A_51_P484290 Slc7a6,LAT3,LAT-2
A_51_P430437 AK081323
A_51_P212053 Serpinb1c,EIC,ovalbumin
A_51_P503052 Nhp2l1,FA-1,Fta1,Ssfa1
A_51_P192120 Tceb3bp1,EloA-BP1,1700021P10Rik,2610511M11R
A_51_P341109 Spint1,HAI-1
A_51_P129281 4732482E20Rik
A_51_P162972 Kcnj10,BIR10,BIRK-1,Kir1.2,Kir4.1
A_51_P472638 Creb1,Creb,Creb-1,2310001E10Rik
A_51_P384908 2610304F08Rik
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A_51_P317193 2310005P05Rik
A_51_P513059 B630019K06Rik
A_51_P338928 Ifnar2,Ifnar-2
A_51_P513057 TC1023981
A_51_P434838 Serpini1,PI12,Spi17

A_51_P310061 NAP057046-1
A_51_P519518 Gpr152,Gm673,A930009H15Rik
A_51_P212064 Abp1,DAO,1600012D06Rik
A_51_P519417 P2rx5,P2X5
A_51_P287797 4930544O15Rik
A_51_P113578 Hspa9a,mot2,74kDa,GRP75,Hsc74,Hsp74,PBP74,m
A_51_P174169 Kcna5,Kv1.5,MGC25248
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A_51_P127590 BC026728
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A_51_P341183 A230042K10Rik,Rslcan23
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A_51_P314571 1520401A03Rik
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A_51_P494406 BC021442,MGC29357,MGC67807
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A_51_P478605 Nfix
A_51_P308070 Coro2b,CLIPINC,E130012P22Rik
A_51_P287746 Wnt7a,px,tw,Wnt-7a
A_51_P513111 A_51_P513111
A_51_P408269 Hgd,aku
A_51_P368885 Abhd7,Ephxrp,Gm1382
A_51_P204356 2310015J09Rik
A_51_P387470 Rab13,0610007N03Rik,B230212B15Rik
A_51_P448515 TC999083
A_51_P338984 Klf12,AP-2rep,2700063E05Rik,B130052C06Rik
A_51_P193711 Supv3l1,6330443E10Rik
A_51_P129215 NAP047992-1
A_51_P308019 Bnip1,Sec20,MGC41600,5930429G21Rik
A_51_P485945 Fdft1,SS,SQS
A_51_P502632 Drd1a,D1dr,Drd1,Drd-1,Gpcr15,C030036C15Rik
A_51_P124103 LOC56304
A_51_P164127 Fmnl3,Wbp3,FBP11,mKIAA2014,2700073B04Rik
A_51_P140665 Rga
A_51_P110409 Hes5
A_51_P502673 8430423A01Rik,Nucks,C78391,2700010L10Rik
A_51_P401001 A_51_P401001
A_51_P260625 Span
A_51_P468071 Ggt1,GGT,Ggtp,CD224
A_51_P408259 Sf3b1,TA-8,Prp10,Targ4,155kDa,SAP155,SF3b155,;
A_51_P108149 BC016423
A_51_P485990 Tmie,sr,Mm.87012,5131400L21Rik

A_51_P129266 Itgb4bp,eIF6,p27BBP,imc-415,1110004P11
A_51_P289986 1810042K04Rik,4930403H09Rik
A_51_P124138 9030625G08Rik,2900040O07Rik
A_51_P395573 D630023B12Rik,mKIAA1450
A_51_P506813 Ttf1
A_51_P168072 Abcc8,Sur,SUR1,D930031B21Rik
A_51_P461678 Rai3
A_51_P201468 Nrf1
A_51_P489964 Rps21,MGC107620,1810049N11Rik,2410030A14Ril
A_51_P446377 Cd96,Tactile,1700109I12Rik
A_51_P248047 Lamb2,Lams,Lamb-2
A_51_P183815 Slnf4
A_51_P184534 Olfr668,MOR34-3
A_51_P326179 4931406P16Rik,mKIAA0355
A_51_P451316 Cabyr,CBP86,FSP-2,1700016C01Rik,4933421A18R
A_51_P506843 Vdr,Nr1i1
A_51_P449644 TC1005117
A_51_P107530 4933401N24Rik
A_51_P269693 BC016495,MGC25909,D630020N23Rik
A_51_P201444 NAP057019-1
A_51_P319093 Dgka,80kDa,Dagk1
A_51_P107520 Olfr141,K17,MOR179-5
A_51_P151602 ENSMUST00000067665
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A_51_P306667 Rqcd1,Fl10,2610007F23Rik
A_51_P396423 Cbx5,HP1,Hp1a,2610029O15Rik
A_51_P270093 NAP024847-001
A_51_P168002 2300002O18Rik
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A_51_P319065 Rnf111,ARK,Arkadia
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A_51_P293110 Cd200,OX2,Mox2
A_51_P277503 Rab11a
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A_51_P127427 Prpf4b,Prp4,Prpk,Prp4k,cbp143,MGC5960,2610037I
A_51_P139977 Cmar
A_51_P179051 Olfr1426,MOR239-1
A_51_P391144 Zfp264
A_51_P446366 Fstl3,Flrg,E030038F23Rik
A_51_P265185 Olfr1378,MOR129-2
A_51_P511439 Rutbc2,D5Bwg1524e,E130107M15,2410098H20Rik
A_51_P293144 Olfr1115,MOR264-20
A_51_P103917 Slc12a5,KCC2,mKIAA1176
A_51_P425702 Hyou1,Cab140,Grp170,Orp150,CBP-140
A_51_P220104 Gpr21,C230004C13Rik
A_51_P377302 Igsf11,Igsf13,BT-IgSF
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A_51_P482421 Lins2,Wins2,2700083B01Rik
A_51_P222653 Bzrp,IBP,PBR
A_51_P212571 Rpl23,2810009A01Rik
A_51_P446398 Csnb,CSN2
A_51_P232466 BQ562153
A_51_P195124 Shrm,D5ErtD287e
A_51_P493296 Kmo
A_51_P292053 4732416N19Rik
A_51_P127492 Rab33a,Rabs10
A_51_P443472 Bccip,TOK-1,1110013J05Rik
A_51_P508540 NAP057142-1
A_51_P385111 A930034L06Rik
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A_51_P430174 Dido1,DIO-1,mKIAA0333,C530043I07
A_51_P151513 B230208H11Rik
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A_51_P116985 BC028278
A_51_P212564 Cog7,Gm167,5630400E24Rik
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A_51_P424561 Zfp93
A_51_P189239 Rnf121,4930544L10Rik
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A_51_P340763 A_51_P340763
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A_51_P325481 Crlz1,Sas10,2400011K09Rik
A_51_P430139 1700040F15Rik
A_51_P450547 Padi3,Pad3,Pdi3,KIAA4171,mKIAA4171
A_51_P463178 1810061M12Rik,mKIAA1055
A_51_P222633 Gabra3,Gabra-3
A_51_P384197 Eif4g1,eIF4GI,MGC37551,MGC90776,E030015G23f
A_51_P299327 Spag11,EP2e,Bin1b,9230111C08Rik
A_51_P286430 AK019053
A_51_P201493 Olfr242
A_51_P249003 Dtx3,mg310,Deltex3
A_51_P299375 2010309E21Rik
A_51_P384639 Mrpl10,Rpml8,MRP-L8,MGC28763,0610040E02Rik
A_51_P287046 0610007N19Rik
A_51_P189251 Kl

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A_51_P184680 Tcte3,LC2,Tcte-3,Tctex2,Tctex4,Tctex-2,Tctex-4,D17
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A_51_P472173 Acs15,ACS2,ACS5,Facl5,1700030F05Rik
A_51_P401154 4933402B14Rik
A_51_P351312 Samsn1,Hacs1,930571B16Rik,4930571B16Rik
A_51_P248394 Olfr178,MOR184-6
A_51_P367718 2810443J12Rik
A_51_P235565 4930579E17Rik
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A_51_P487406 8030451F13Rik
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A_51_P141826 Fbxo3,Fba,1200002G09Rik,1700026K02Rik
A_51_P447165 A430106J12Rik,Ape,C330012F17Rik
A_51_P505230 0610037H22Rik
A_51_P226075 Gabrq
A_51_P293086 Mmp11,ST3,Stmy3
A_51_P396785 Angpt1,Ang-1,1110046O21Rik
A_51_P110753 Spag1,tpis
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A_51_P351334 Prkrir,Dap4,Rpkrir,MGC31389,2900052B10Rik
A_51_P287026 1110004F10Rik,Smcp,Smacp,sid2057,sid2057p
A_51_P293099 5830483C08Rik,MGC115970
A_51_P149382 4833416J08Rik
A_51_P107228 Abcf1,Abc50,GCN20,D17Wsu166e
A_51_P306722 Rpusd1,Rlucl,2310051D06Rik
A_51_P449794 Crip1,CRHP,CRP1,Crip
A_51_P108231 Chrna7,Acra7,alpha7
A_51_P311066 1700012F10Rik,HAN11,2610037L01Rik
A_51_P158810 XM_149494
A_51_P249473 Galns,FLJ00319,mFLJ00319
A_51_P140780 Snapap,25kDa,Snap25bp

A_51_P248313 Olfr65,5'[b]2,MOR1-1,MOR1-2,ORL533,5'beta2
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A_51_P347282 ENSMUST00000060498
A_51_P277445 Rnf19,XYbp,UIP117,Ubce7ip2
A_51_P265696 Gapdhs,Gapds,Gapd-s
A_51_P478100 Epb4.1I5,BE37,NBL5,1700030C16Rik
A_51_P407584 Mfn1,HR2,KIAA4032,mKIAA4032,D3Ertd265e,2310C
A_51_P290173 Selk,30kDa,Hsp30,Hsp030,HSPC030,1110001C03R
A_51_P412009 Arhgap1,MGC7050,MGC101942,p50rhoGAP,B2303I
A_51_P309494 Praf2,JM4,Sfc20,DXImx39e
A_51_P108567 Nadk,MGC7589
A_51_P140754 Slc23a1,SVCT1,YSPL3,Slc23a2,D18Ucla2
A_51_P395646 Myh2,MHC2A,Myh2a,Myhs-f,Myhsf1,Myhs-f1,MyHC-
A_51_P425288 Aldoc,Aldo3
A_51_P151373 4932431P20Rik
A_51_P248374 Zdhhc4,1810021D01Rik,2900029I10Rik
A_51_P293006 Il17e,IL25,IL-17E
A_51_P396706 Surb7,Srb7,D6Ertd782e,0610007L03Rik
A_51_P184654 5930418K15Rik,mKIAA1423
A_51_P107058 1300006C06Rik,MGC6306,MGC101975,mKIAA0063
A_51_P367783 Adamtsl2,tcp-1,A930008K15Rik
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A_51_P307800 Pigc,3110030E07Rik
A_51_P396723 A630007B06Rik,Otg1,1810028B20Rik
A_51_P508692 Matp,uw,Dbr,bls,Aim1,Aim-1,blanc-sale
A_51_P108512 lgh-VJ558,MGC6727
A_51_P439961 1110007A06Rik,MGC59617,MTA.D02.090
A_51_P382880 Nr2f1,EAR3,SVP44,Erbal3,COUPTFA,COUP-TF1,C
A_51_P107044 4930555G01Rik
A_51_P307885 BC023754,MGC67447,mKIAA0404,A830054M12,18
A_51_P260511 Rpo1-3,16kDa,mRPA16,MGC107156,1110003G10R
A_51_P195650 Ercc2,XPD,Ercc-2
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A_51_P438859 Pmf1,2600009M07Rik
A_51_P159277 Aacs,SUR5,2210408B16Rik
A_51_P317372 Synpo,9330140I15Rik
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A_51_P232980 1190005F20Rik,C1orf25,MGC70241
A_51_P393863 4633402N23Rik
A_51_P359487 Zfp11,1500015B20Rik
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A_51_P439902 Atp2a1,SERCA1
A_51_P393895 Mpi1,Mpi-1,1110002E17Rik
A_51_P225852 Pcmt1,PIMT
A_51_P439932 Zbtb36,B230208J24Rik
A_51_P415316 Angptl2,Arp2
A_51_P484498 Pmfbp1,F77,Stap,1700016D22Rik
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A_51_P236562 3300001M20Rik,CGI-09,mKIAA1153
A_51_P416948 ENSMUST00000050942
A_51_P320033 E130304I02Rik
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A_51_P161636 Kng2
A_51_P191900 Ltk
A_51_P306151 Sgk3,Cisk,2510015P22Rik,A330005P07Rik
A_51_P319513 Psm2,TEX190,TEG-190,9430095H01Rik
A_51_P299240 Fcamr
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A_51_P398967 Igfbp4,Deb2,IGFBP-4
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A_51_P420456 Olfr1338,MOR259-9
A_51_P189146 Ndst1,Hsst,NDST-1,1200015G06Rik
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A_51_P344819 4921501E09Rik,PHF8
A_51_P121005 ENSMUST00000065407
A_51_P121000 Tcrg-V5
A_51_P189193 A_51_P189193
A_51_P400973 Rfpl4,D7Ert486e
A_51_P382688 Zmynd19,mizip,2700064H14Rik
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A_51_P440099 1700020B09Rik
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A_51_P231827 Ctsm,Catm,1600027J17Rik
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A_51_P519646 Mical3,MICAL-3,mKIAA1364,C130040D16Rik
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A_51_P495550 ENSMUST00000050906
A_51_P254743 Tacc1,4833447E04Rik,B230378H13Rik
A_51_P320080 Gclm,Glclr
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A_51_P331075 Rrs1,Rrr,D1Ert4701e,5730466A07Rik
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A_51_P290213 Insig1,Insig-1,1810013C12Rik
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A_51_P424859 Amelx,Amg,ALGN,AMGL,AMGX,Amel,amelogenin
A_51_P383228 Tif1,T/EBP,Ttf-1,Nkx2-1,Nkx2.1,Nkx-2.1
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A_51_P184738 Trp53,p53
A_51_P151053 E030049G20Rik,Nap5,Gm1548,MGC90557,8430406
A_51_P486155 Ocln,Ocl
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A_51_P290226 Hspca,hsp4,86kDa,89kDa,Hsp89,Hsp90,Hsp86-1
A_51_P214966 Gtf2h3,BTF2,34kDa,TFIIH,C730029A10,D5Ert4679e
A_51_P108678 Klra8,Cmv1,Cmv-1,Ly49h,Ly49u<129>
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A_51_P214977 Abca1,Abc1
A_51_P306015 4930542C12Rik
A_51_P409472 2410001C21Rik,1700067C04Rik
A_51_P416701 Lsamp,Lam,Lamp,5430428l19,B130007O04Rik
A_51_P476218 Rae1,41,MNRP,MNRP41,D2ErtD342e,3230401112Ri
A_51_P265303 Ggtl3,MGC12004,1110017C11Rik,6330563L03Rik
A_51_P273713 Ran
A_51_P273712 Zfp354c,AJ18,Kid3,Tcf17l2,KIAA4218,mKIAA4218,5:
A_51_P368194 LOC329416,Daip2
A_51_P108657 TC1052906
A_51_P290249 TC953256
A_51_P306076 Lpp,D630048H16,9430020K16Rik,B130055L10Rik
A_51_P466049 Pip5k2c
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A_51_P443422 Lmx1a,dr,sst,Lmx1.1,dreher
A_51_P257209 Klf8,BKLF3,ZNF74,A830097P10Rik
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A_51_P466007 1190005P17Rik
A_51_P217899 Myo1h,4631401O15Rik
A_51_P265368 Ptpn11,Syp,Shp2,PTP1D,PTP2C,SAP-2,SHP-2,SH-I
A_51_P140091 Flcn,Bhd,FLCL,MGC37841,B430214A04Rik
A_51_P364202 Slc25a24,2610016M12Rik
A_51_P184750 Cyp2b13
A_51_P265334 Nr0b2,SHP,Shp1,SHP-1
A_51_P254792 Ppef2
A_51_P485809 Pygb,MGC36329
A_51_P273768 Rab25
A_51_P309762 Dcpp,p20,MGC102440
A_51_P520888 Slc4a3,Ae3
A_51_P265343 Ldb3,ZASP,PDLIM6,cypher 1,cypher 2
A_51_P131195 Prlr,Pr-1,Pr-3,Prlr-rs1
A_51_P223982 CB174438
A_51_P273755 Exoc7,70kDa,Exo70,sec70
A_51_P108618 Phka1,Phka,5330411D17,9830108K24Rik
A_51_P325613 Hook3,E330005F07Rik
A_51_P469304 2410007P03Rik,1700101G24Rik
A_51_P293349 Cyp1b1,CP1B,P4501b1
A_51_P447600 Scube1,7330410C13Rik,A630023E24Rik
A_51_P450411 Muc3
A_51_P195316 Akr1e1,1810061110Rik
A_51_P377103 Cml3,4833414A14Rik,4930583K21Rik
A_51_P212771 XM_146743
A_51_P352180 Rassf3
A_51_P499540 Galnt6,GalNAc-T6,4632410F13
A_51_P273776 6530406M24Rik,2900053G10Rik
A_51_P225943 E130307J07Rik
A_51_P225902 Sprr4

A_51_P355481 1110020C13Rik,2010324E22Rik
A_51_P493085 Gm337
A_51_P508705 Wbscr1,Eif4h,Wscr1,D5Erttd355e,E430026L18Rik
A_51_P377162 Defcr-rs10,CRS4C-4
A_51_P416785 Mcptl,MMCP-L
A_51_P456919 3526402J09Rik
A_51_P165960 Tebp,Ptges,cPGES,sid3177,5730442A20Rik
A_51_P225957 Umps,1700095D23Rik
A_51_P438584 Steap2,STMP,IPCA1,IPCA-1,STAMP1,PCANAP1,49
A_51_P176041 Pklr,Pk1,Pk-1
A_51_P175180 Spink5
A_51_P176083 Gpr43,MGC28611
A_51_P192605 Adora2b
A_51_P102439 Ugt2b37,0610033E06Rik
A_51_P389099 Pdzk8,AV329468,A630041P07Rik
A_51_P317029 Dnaja2,DNAJ,DNJ3,mDj3,Dnaj3,HIRIP4,PRO3015,2
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A_51_P212723 NAP057213-1
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A_51_P474979 Tectb,Tctnb
A_51_P499594 Osr2,5430409I15Rik
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A_51_P477093 Wdr4,D530049K22Rik
A_51_P295714 1110015K06Rik
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A_51_P111049 Plscr4
A_51_P259678 Wnt2b,Wnt13
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A_51_P295756 Mark1,Emk3,KIAA1477,mKIAA1477,B930025N23Rik
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A_51_P113477 Pctp,PC-TP
A_51_P519390 Hamp1,Hamp,Hepc,Hepc1
A_51_P468196 Cdsn
A_51_P310576 1810030N24Rik,2810406B13Rik
A_51_P469332 2810030E01Rik,MGC59463
A_51_P243356 Pofut2,FUT13,MGC6943,C21orf80,MGC25565,2310
A_51_P440294 BG173369
A_51_P132790 Bcl2l10,Boo,Diva
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A_51_P447692 TC1060451
A_51_P133578 Cbx4,MPc2

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A_51_P374077 Cdw92,CTL1,CHTL1,4833416H08Rik
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A_51_P165507 Twist2,Dermo1
A_51_P243333 Aes,Grg,Grg5
A_51_P156599 NAP108732-1
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A_51_P308768 Eif3s3,40kD,EIF3-P40,MGC107627,EIF3-gamma,11
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A_51_P331549 Hadha,Mtpa
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A_51_P344940 6820408C15Rik
A_51_P279427 A230079K17Rik
A_51_P510939 Chchd7,1810049H20Rik
A_51_P384448 Snx27,mKIAA0488,5730552M22Rik
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A_51_P328036 Slc22a1,Lx1,Oct1,Orct,Orct1,MGC14019
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A_51_P347442 Prdm5,PFM2,4432417F03Rik,6530401I24Rik,E1301
A_51_P308750 Rsl1d1,2410005K20Rik
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A_51_P331568 Tmem42,MGC29956,D9ErtD662e,0610027O18Rik,4
A_51_P189497 Snrpb,SMB,SM-B,SM11,SNRNP-B
A_51_P489845 Nfyc
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A_51_P395413 Rgs5,1110070A02Rik
A_51_P328060 Sumo3,SMT3A,SUMO-3,Smt3h1,D10ErtD345e,2810
A_51_P351125 Klra15,Ly49O
A_51_P401375 Pus1,MPUS1,mPus1p
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A_51_P156513 Dhdkd1,C330018I04Rik
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A_51_P235784 Gcet2,M17,Gcet,M17-L
A_51_P395470 MGC86034
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A_51_P183915 Il27ra,CRL1,Tccr,Wsx1,WSX-1,IL-27R,zcytor1
A_51_P184070 Hbs1l,eRFS,2810035F15Rik
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A_51_P248154 Trim60,Rnf33,2czf45
A_51_P352052 Pemt,Pempt,Pempt2
A_51_P401313 Plxnc1,CD232,Vespr,2510048K12Rik
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A_51_P457013 Klhdc4,MGC19372,G430025P05Rik
A_51_P352068 Pit1,dw,Hmp1,GHF-1,Pit-1,dwarf,Pou1f1
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A_51_P383169 NAP057174-1
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A_51_P495430 Nck2,Grb4,NCKbeta
A_51_P477364 Rhob,Arh6,Arhb
A_51_P175233 Fbxl4,FBL4,FBL5,4732456I21
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A_51_P510893 Afp
A_51_P183951 Slc9a8,NHE8,1200006P13Rik,6430709P13Rik
A_51_P396165 Mdm1,Mdm-1
A_51_P268013 Mark4,Markl1,2410090P21Rik
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A_51_P195051 Dppa3,PCG7,PGC7,Stella,2410075G02Rik
A_51_P108759 Rad54l,RAD54
A_51_P257572 Adk,AK,MGC6593,5033405D03Rik
A_51_P416005 Rad23a,mHR23A,2310040P19Rik
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A_51_P196953 Sgsh,4632406A19Rik
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A_51_P196939 Sgrp23,SGP-23
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A_51_P321911 Atp1b2,Amog,Atpb-2
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A_51_P189372 Rpl21,L21,MGC107587,MGC107588,MGC107690,8
A_51_P299063 Kel,CD238
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A_51_P310421 Sall1,Msal-3
A_51_P490415 2600017J23Rik
A_51_P141992 Aebp2,B230313N05Rik
A_51_P122259 Kcng4,KV6.3,KV6.4,4921535I01Rik

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A_51_P321902 Wrh,Chd5,5530402J05Rik,C030018G21Rik
A_51_P257414 Ksr,hb,RSU2,B-KSR1,D11Bhm183e,D11Bhm184e
A_51_P482573 Wnt6,Wnt-6
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A_51_P136920 Camk2b,Camk2d,MGC90738
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A_51_P321977 Gfra2
A_51_P384500 Calm3,CaMA
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A_51_P386839 Brap,3010002G07Rik
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A_51_P280297 Sec1,Fut3,Fut10
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A_51_P133257 Vsnl1,VILIP,Vnsl1
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A_51_P153812 Usp22,KIAA1063,MGC91200,mKIAA1063,9330200A
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A_51_P490442 Arf3,5430400P17Rik
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A_51_P254534 Bax
A_51_P308415 Zfp27,mkr-4,Zfp-27,mszf76
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A_51_P164344 Mgat5,GlcNAc-TV,4930471A21Rik,5330407H02Rik

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A_51_P184198 Smarcd2,Baf60b
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A_51_P395160 Aard,A5D3,MGC107188
A_51_P101060 Hoxc5,Hox-3.4,Hox-6.2
A_51_P363401 Prg2,MBP,mMBP,mMBP-1
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A_51_P114438 2310067B10Rik,mKIAA0195
A_51_P144148 NAP101252-1
A_51_P290026 Rab27a,ash,2210402C08Rik,2410003M20Rik,49334
A_51_P240536 2310061I09Rik
A_51_P331261 A030009B12Rik
A_51_P184162 A430081C19Rik,4930524K04
A_51_P440280 T25534
A_51_P468408 1110007C02Rik
A_51_P290059 Gap43,B-50,Basp2,GAP-43
A_51_P260208 Pres
A_51_P396044 Lepr,db,Obr,obl,LEPROT,OB-RGRP,diabetes,MGC1
A_51_P114459 6330404A07Rik
A_51_P510390 Prpf3,3632413F13Rik
A_51_P297961 Recql,RecQ1
A_51_P158516 4930442H23Rik
A_51_P164562 Crsp2,ORF1,Gm641,Trap170,9930001L01Rik
A_51_P278840 Mia2
A_51_P489925 Tbx4,3930401C23
A_51_P383407 Aldh1a7,Aldhpb,Aldh-pb,Aldh1a4,Ahd2-like
A_51_P280244 Zfp207,Zep,8430401D15Rik
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A_51_P140280 Bicd1,KIAA4125,mKIAA4125,B830009D06Rik
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A_51_P306217 5430438H03Rik,XRG5
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A_51_P108528 Hmg20b,Hmgx2,BRAF35,Smarce1r
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A_51_P127065 Upk3b,P35,UpIIIb,PMS2L14
A_51_P426274 Pdk2
A_51_P389653 Mrgprb2,4833406I20Rik
A_51_P366361 Tjp2,ZO-2
A_51_P352319 Thy28,MY105,MDS012,HSPC144,D730042P09Rik
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A_51_P466206 2310079F23Rik
A_51_P207820 Hoxb9,Hox-2.5
A_51_P369584 Cideb,CIDE-B,1110030C18Rik
A_51_P254581 1110002L01Rik
A_51_P218372 Nr1d2,RVR,beta,Rev-erb
A_51_P273573 BC024760,MGC58680
A_51_P505879 D8Ertd69e,mKIAA1046,4930431L18Rik
A_51_P205411 1700051112Rik
A_51_P107113 Park2,PRKN
A_51_P443894 Ppp3r1,Cnb1,MCIP1
A_51_P196808 Dhx29,Ddxx,3732415M03,E130202M19Rik
A_51_P472967 2810405F18Rik,2310010O12Rik
A_51_P463559 Mpa2,Gbp4,Mag-2,Mpa-2,KIAA4245,mKIAA4245
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A_51_P293525 1500003O22Rik,2900001K19Rik
A_51_P515908 Ckap4,P63,CLIMP-63,5630400A09Rik
A_51_P508902 Rbp7,CRBP-III,1110002J23Rik
A_51_P415400 3300001A09Rik
A_51_P232897 Cnp1,Cnp,Cnp-1,CNPase
A_51_P293517 Tbc1d1,Tbc1,mKIAA1108,1110062G02Rik
A_51_P287639 Dlgap2,DAP2,Sapap2,6430596N04Rik
A_51_P364402 Ptprij,BET,Byp,Sccl,CD148,DEP-1,Ptpb2,Sccl-1,PTP
A_51_P135909 NAP057042-1
A_51_P447417 Tas2r107,T2R4,T2R07,mGR06,Tas2r7,mt2r43,STC
A_51_P475574 Edg2,Kdt2,lpA1,vzg-1,Gpccr26,MGC29102,5031439C
A_51_P246124 Egf
A_51_P436488 A_51_P436488
A_51_P201817 2810422J05Rik,0610030B01Rik
A_51_P369510 1110001K21Rik,Sdos,5330437I08Rik
A_51_P196838 1700123O21Rik
A_51_P192491 Tmem8,M83
A_51_P175792 Bard1
A_51_P176212 2210404G23Rik,Tp120b,mKIAA0667
A_51_P249738 Ccr5,AM4-7,CD195,Cmkbr5
A_51_P337993 Magea5,Mage-a5
A_51_P216549 Trp63,Ket,p63,Trp63,p73L,TAp63,p51/p63,Trp53rp1,I
A_51_P418875 BC024537,MGC37588
A_51_P201840 Dctn5,4930427E12Rik
A_51_P418873 NAP070799-1
A_51_P376759 Nfx1,NFX.1,TEX42,TEG-42,1300017N15Rik,3000003
A_51_P369508 Bcs1l,9130022O19Rik
A_51_P325031 NAP108449-1
A_51_P471921 A_51_P471921
A_51_P482071 Hist1h4d

A_51_P192474 1110002B05Rik
A_51_P133763 Bai3,A830096D10Rik
A_51_P232817 4632413C14Rik
A_51_P450624 Phlda2,lpl,Tssc3
A_51_P299763 Obox1,7420700M11Rik
A_51_P516976 Ptpn2,PTP-NP,phogrin,IA-2beta,KIAA0387,mKIAA0
A_51_P129190 4921521K07Rik
A_51_P106652 Vars2l,1190004I24Rik
A_51_P226667 Nr1h5,Fxrb
A_51_P117639 5830468F06Rik
A_51_P502532 Tex14
A_51_P314736 Serf1,4F5,m4F5,Msmac1
A_51_P212938 Clcn7,CIC-7,D17Wsu51e
A_51_P503872 Falz,MGC54978,9430093H17Rik
A_51_P136879 Rab7,MGC102153
A_51_P341806 NAP057056-1
A_51_P490155 Pdxp,PLPP,1600027H05Rik
A_51_P395694 Slc13a1,Nas1,NaSi-1
A_51_P483887 Pcdhb9,Pcdhbl,Pcdhb4C
A_51_P429475 2310047O13Rik,1810041E18Rik
A_51_P133727 Myo1d,myosin-1d,9930104H07Rik
A_51_P490118 BC003267
A_51_P212956 Psors1c2,Pcg,SPR1
A_51_P320319 A_51_P320319
A_51_P132968 Phf6,mKIAA1823,2700007B13Rik,4931428F02Rik
A_51_P358812 2600001B17Rik,1110059P07,1110032E16Rik
A_51_P325095 NAP057162-1
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A_51_P106699 BC031601
A_51_P468743 6330409N04Rik
A_51_P320357 TC1052784
A_51_P384222 Slc2a3,Glut3,Glut-3
A_51_P418913 3110040D16Rik,Larp,mKIAA0731,1810024J12Rik
A_51_P331774 4930432H15Rik,4930527G05Rik
A_51_P490137 Spry1,sprouty1
A_51_P347653 Sacs,KIAA0730,mKIAA0730,E130115J16Rik
A_51_P454575 Ube2d1,UBCH5,MGC28550
A_51_P519617 Il17rc,Il17rl,IL-17RC,IL17-RC,IL17-RL,1110025H02R
A_51_P308577 Evc
A_51_P129135 Rnpc3,2810441O16Rik,C030014B17Rik
A_51_P136838 Usp19,Zmynd9,8430421I07Rik
A_51_P236480 4732437J24Rik,mKIAA0962,D030060M24,2900037C
A_51_P279610 Socs1,JAB,Cish1,Cish7,SSI-1,SOCS-1
A_51_P425674 lvd,1300016K07Rik,6720455E18Rik
A_51_P504101 D730019B10Rik
A_51_P331750 Ccl11,Scya11,eotaxin
A_51_P502327 1700016D06Rik
A_51_P344661 4933409K07Rik
A_51_P279635 Col6a2,Col6a-2,MGC36205
A_51_P337350 Ern2,Ern1,Ire1,Ire1b
A_51_P251955 2500001K11Rik,MGC25511
A_51_P496244 Hoxc6,Hox-3.3,Hox-6.1

A_51_P449491 A_51_P449491
A_51_P254672 2310075M15Rik,mKIAA0230,E330004E07
A_51_P184261 Rdh10,D1Ert762e,3110069K09Rik
A_51_P414971 AI839920
A_51_P331732 BC031140,MGC37245
A_51_P263828 9330175B01Rik
A_51_P270991 Psg19,CGM7,Cea4,Cea-4
A_51_P235193 Snx14,YR-14,B830022K16,C330035N22Rik
A_51_P254625 H2-Ob,Ob,H-2I,H-2Ab,H-2Ob,H2-Ab,H2-Ab2,H2-IAb;
A_51_P430388 Wbscr18,1300007M11Rik
A_51_P396387 Mars2,MetRS,C730026E21Rik
A_51_P270951 Hist1h1b,H1B,H1.5,H1f5,H1s-3
A_51_P395205 C530008M17Rik,KIAA1211,mKIAA1211,4930529A1!
A_51_P129149 Gatad2a,MGC29315,MGC36975,1110066C11Rik
A_51_P331709 1700113I22Rik,1110069E20Rik
A_51_P352272 Gad1,1110027M19Rik
A_51_P175031 Olfr683,MOR40-1
A_51_P383301 Wee1
A_51_P306366 Slco4c1,OATPX,OATP-H,OATP-M1,OATP4C1,PRO
A_51_P258126 Brdt,Brd6,Fsrg3,7420412D09Rik
A_51_P449424 A_51_P449424
A_51_P505623 A_51_P505623
A_51_P184236 1200014M14Rik
A_51_P297802 Garnl4,Gm1561,mKIAA1039
A_51_P114756 Fzr1,FZR,Fyr,FZR2,HCDH,HCDH1
A_51_P426032 Tnn,Tnw,tenascin-W
A_51_P352252 BQ128499
A_51_P396394 Ppp4r2,C230060M08Rik
A_51_P436329 Hhip,Hip,Hip1,Hhip1
A_51_P290535 Abcd2,ALDR,ABC39,ALDL1,ALDRP
A_51_P265648 C130073P14
A_51_P397608 Stam2,Hbp,1200004O12Rik,5730456G07Rik
A_51_P228732 Shc1,Shc,p66,ShcA
A_51_P296935 Hnrpa1,Hdp,hnrnp-A1,MGC102127,MGC102128,MC
A_51_P505603 lds
A_51_P413912 Hmx3,Nkx5-1,Nkx5.1,Nkx-5.1
A_51_P184217 Crry,Mcp,mCRY,MGC102484
A_51_P465838 Fhl5,Act,1700027G07Rik
A_51_P352239 TC959899
A_51_P228765 Slfn3
A_51_P476999 Coro1c,MGC102522
A_51_P228725 Sec23a,Sec23r
A_51_P331787 4930405M20Rik
A_51_P396331 Syn2,2900074L19Rik
A_51_P516215 2900024C23Rik
A_51_P270924 Hcst,DAP10,KAP10
A_51_P257709 ENSMUST00000052308
A_51_P254682 4921509F24Rik
A_51_P352114 2600003E23Rik,Afap,mKIAA3018,9630044L16Rik
A_51_P352211 BC013529,MGC19209
A_51_P214826 Orc5l,Orc5,MmORC5
A_51_P347684 Grem1,ld,Drm,gremlin,Cktsf1b1

A_51_P301215 2310008H09Rik,Tsg118
A_51_P396319 Apba1,X11,Mint,Mint1,Lin-10,X11alpha,6430513E09
A_51_P499611 Cldn12
A_51_P140393 Dock3,PBP,MOCA,mKIAA0299
A_51_P273473 Ptpn11,Syp,Shp2,PTP1D,PTP2C,SAP-2,SHP-2,SH-I
A_51_P415730 5830411K18Rik,6030457D09
A_51_P176504 2510038A11Rik
A_51_P236160 BC028265
A_51_P229002 4930418P06Rik,MGC7809
A_51_P499673 Ubl5,beacon,1110030M22Rik
A_51_P482398 4930544G21Rik,mKIAA1678,A930009L15Rik
A_51_P369081 Ripk2,CCK,RICK,RIP2,CARD3,CARDIAK
A_51_P510239 Asah3,Cer1,2310024P18Rik
A_51_P463674 Plk4,Sak,Stk18,1700028H20
A_51_P205579 Ndufb11,Np15,NP15.6,D5Bwg0566e,D5Bwg0577e
A_51_P357138 Ctsf
A_51_P222535 ENSMUST00000049883
A_51_P196703 Prf1,Pfp,Prf-1,perforin
A_51_P405776 Hist1h2aa
A_51_P499683 Spred2
A_51_P222567 2610528J11Rik
A_51_P463628 U09772
A_51_P212640 NAP057057-1
A_51_P297896 Syt1,G630098F17Rik
A_51_P106721 TC958426
A_51_P440497 Sema3d,4631426B19Rik
A_51_P463658 NAP057095-1
A_51_P301220 Birc4,Aipa,Api3,IAP3,MIHA,XIAP,ILP-1,mXIAP
A_51_P306385 Syt3,syt III
A_51_P377095 Col1a1,Cola1,Mov13,Cola-1,Mov-13,Col1a-1
A_51_P197939 NAP017837-001
A_51_P236123 4931419P11Rik
A_51_P447543 4933401B01Rik
A_51_P483934 Glrx2,Grx2,1700010P22Rik
A_51_P340078 Tnfaip3,A20,Tnfip3
A_51_P202464 Reps1,MGC91085
A_51_P236137 2510016G02Rik
A_51_P320461 Rps6ka2,Rsk3,90kDa,p90rsk,pp90rsk,D17Wsu134e,
A_51_P128496 E030003N15Rik
A_51_P459120 Naglu
A_51_P374572 Igfbp6,IGFBP-6
A_51_P443905 Klk16,mGk-16,Klk1b16
A_51_P106758 A_51_P106758
A_51_P376658 1110034G24Rik
A_51_P202434 Pdap1
A_51_P152670 AF357512
A_51_P369014 A_51_P369014
A_51_P212600 Pcdha9
A_51_P221046 BQ715323
A_51_P420068 Pdzk3,Gm82,KIAA0300,mKIAA0300,4930537L06Rik
A_51_P384398 Dll4,Delta4
A_51_P358705 Nab1

A_51_P515162 A_51_P515162
A_51_P117375 1700058C13Rik
A_51_P161217 A_51_P161217
A_51_P471870 Arv1,1110067L22Rik
A_51_P314631 Prkcz,Pkcz,zetaPKC
A_51_P161268 Ccl25,TECK,CKb15,Scya25
A_51_P376679 Sfpi1,Dis1,PU.1,Spi-1,Sfpi-1,Tcfpu1,Tfpu.1
A_51_P515149 Ppib,Cphn2,Cphn-2,CyP-20b
A_51_P459170 1700095J03Rik
A_51_P425746 Cdc37,p50
A_51_P235074 Slc35a3,MGC36317,2310050P13Rik
A_51_P129487 Sftpa1,SP-A,Sftp1,Sftp-1
A_51_P450628 Usp5,ISOT,Ucht,ISOT-1
A_51_P415794 Klc2,8030455F02Rik
A_51_P320417 TC1067720
A_51_P161200 4933428F06Rik,MGC33630,5031404N07,4930415N
A_51_P223203 Slc7a9,CSNU3
A_51_P363271 TC984274
A_51_P387261 Slc5a7,CHT1
A_51_P358744 March3,MARCH-III,6330411I15Rik,A530081L18Rik
A_51_P474102 9430020K01Rik
A_51_P484338 XM_146043
A_51_P358736 NAP057044-1
A_51_P496490 Zdhhc13,HIP3RP,Hip14I,C530010M18,2410004E01I
A_51_P440409 Slc6a2,NET,NE-T,Slc6a5
A_51_P128427 NAP057139-1
A_51_P383662 2610001J05Rik,MGC99440
A_51_P418540 Lmnb2
A_51_P363210 D630045J12Rik,cDNA,gene,RIKEN,mKIAA1549
A_51_P279105 ORF61,FLJ00277,MGC90890,R32184_3,mFLJ0027
A_51_P453312 AU067806
A_51_P513071 Rdh13,8430425D21Rik
A_51_P101247 Rrn3,E130302O19Rik
A_51_P314691 Prkab1,AU021155,E430008F22,1300015D22Rik
A_51_P384339 5430433E21Rik
A_51_P331440 B430006D22Rik
A_51_P358757 Nsg1,p21,m234,Neep21
A_51_P257686 Stau1,Stau
A_51_P117398 Chd1,4930525N21Rik
A_51_P449566 Efs
A_51_P347522 BB049667,6530411J22
A_51_P235084 C130085G02Rik,Gm209
A_51_P290676 D19Ertd703e,Sapl,mKIAA1558,D19Bwg1430e,4930f
A_51_P263939 1110054O05Rik
A_51_P129415 Rfx1
A_51_P344726 Rps6,MGC102571,MGC103209
A_51_P453330 4932416A15
A_51_P263904 Tgifx1,Tex1
A_51_P164116 Utx
A_51_P347504 NAP057200-1
A_51_P257642 Pgam1,Pgam-1,MGC102422,2310050F24Rik
A_51_P261422 2610005L07Rik,2810038F24Rik,6720476A01Rik

A_51_P513011 Rad9b,MGC28469
A_51_P208953 Synj2,SJ2,mKIAA0348
A_51_P250777 Dusp23,LDP-3,MGC73633,1300005N15Rik
A_51_P383628 Vps4a,MGC11698,4930589C15Rik
A_51_P280031 NAP057065-1
A_51_P366120 5330411L03Rik
A_51_P436011 Lbh,1810009F10Rik,6720416L16Rik
A_51_P158763 Samd7,4930597A01Rik
A_51_P293789 Atf3,LRG-21
A_51_P321191 Ccr11,PPR1,CCBP2,CCR11,VSHK1,CCX-CKR,Cmkt
A_51_P485861 Eef1a2,S1,wst,Eef1a,wasted
A_51_P425511 Mmp20
A_51_P406375 Trygn16
A_51_P273303 AI551216
A_51_P254753 TC1023047
A_51_P205261 D14Ertd581e,Pibf1,1700017E21Rik,4930513H15Rik
A_51_P171415 Nfatc2ip,NIP45,D7Ertd304e
A_51_P257609 AI325464
A_51_P406326 Serpinb6c,SPIC,SPI3C,ovalbumin
A_51_P471498 Fbxo22,0610033L19Rik,1600016C16Rik
A_51_P229196 Mfap1,4432409M24Rik
A_51_P196683 Ifngr2,lfgt,lfg2
A_51_P280055 NAP057112-1
A_51_P184314 Ubx2,mKIAA0242,1300013G12Rik
A_51_P499142 Muc10
A_51_P244386 Fer1I3,2310004N10Rik,2310051D19Rik,E030042N2
A_51_P208990 Tex9,tsec-1
A_51_P218104 Zfp371,Zfg1
A_51_P411275 AI225934
A_51_P389444 ORF19,1110049F14Rik
A_51_P366152 Igsf1,5330413N23,5530402E03,InhBP/p120
A_51_P412778 Cpd,D830034L15Rik
A_51_P183212 2310007A19Rik
A_51_P273319 Rnf133,Greul2
A_51_P377570 Ipf1,Pdx1,IDX-1,IPF-1,Mody4,STF-1,pdx-1
A_51_P293742 Tsga10ip,1810013N20Rik
A_51_P205271 2810446P07Rik
A_51_P393109 AK042403
A_51_P171441 Ntf3,NT3,NT-3,Ntf-3
A_51_P216725 1700023O11Rik,9530025I05Rik
A_51_P249514 6530406A20Rik
A_51_P236270 St8sia4,PST,PST-1,Siat8d,ST8SialV
A_51_P106429 2410003A14Rik
A_51_P475375 Actn3
A_51_P320777 4921506I22Rik,MGC115931
A_51_P377538 ENSMUST00000066697
A_51_P183252 Tssk3,Tsk-3,Stk22c,Stk22d,Tssk-3,Tssk3b,1700014I
A_51_P308101 BC062650,5830402J09
A_51_P499128 BE368005
A_51_P202332 Plunc,LUNX,NASG,SPURT,SPLUNC1
A_51_P205233 NAP057132-1
A_51_P189741 Pim3,Kid1,MGC27707,MGC37517

A_51_P254710 Gmds,MGC18773,MGC103045
A_51_P189896 Olfr1133,MOR176-2
A_51_P437586 Nrd1,NRD-C,MGC25477,2600011106Rik
A_51_P122523 Nup50,Npap60,1700030K07Rik
A_51_P175586 A030012M09Rik,8430411F12Rik
A_51_P273395 4933427I18Rik
A_51_P463708 NAP108644-1
A_51_P308118 Msmb,PIP,PSP94,beta-MSP
A_51_P377506 6330509G02Rik,MGC100296
A_51_P106403 Prkcn,MGC47171,4930557O20Rik,5730497N19Rik
A_51_P122507 Srp68,MGC38208,2610024I03Rik
A_51_P183272 Sympk,SPK,SYM,4632415H16Rik
A_51_P377514 Srebf2,SREBP2,SREBP-2,SREBP2gc
A_51_P491805 NAP108650-1
A_51_P348464 AI414867
A_51_P310996 A_51_P310996
A_51_P106441 Tll4,mKIAA0173,4632407P03Rik
A_51_P128585 Wars,WRS
A_51_P299546 Dusp4,2700078F24Rik,E130306H24Rik
A_51_P439413 NAP057235-1
A_51_P374469 Hbb-b2
A_51_P216765 4930431B11Rik,5730406O13Rik
A_51_P176435 Map3k14,Nik,aly
A_51_P456280 Rtn4rl1,Ngr3,Ngrh2,Ngrl2
A_51_P223304 NP_TR6JSE50FPA,MGC67752,GA_x5J8B7TQSKC
A_51_P320509 D6Ertd245e
A_51_P459036 A_51_P459036
A_51_P484758 1810037C20Rik,Fam3A
A_51_P384079 R74640
A_51_P369766 Itgb1bp3,Mibp,2310015C21Rik
A_51_P299528 BC014805,MGC25980
A_51_P193900 Mos
A_51_P229172 Ctsw,lymphopain
A_51_P320552 Pex26,4632428M11Rik
A_51_P235361 Wnt3,Int-4,Wnt-3
A_51_P461865 Znhit1,ZNFN4A1,2700001K05Rik
A_51_P454736 Acvrl1,Alk1,Alk-1,Acvrlk1
A_51_P311215 Slco1a6,Oatp5,Oatp-5,Slc21a13,4930422F19Rik
A_51_P137522 Edg3,LPb3,S1P3
A_51_P320520 Ppp2r5c,AW545884,mKIAA0044,D12Bwg0916e,261
A_51_P284108 1700009N14Rik
A_51_P483635 Drd1a,D1dr,Drd1,Drd-1,Gpcr15,C030036C15Rik
A_51_P156944 ENSMUST00000049729
A_51_P211210 Asb1,mKIAA1146,1700029O08Rik,1700054C17Rik
A_51_P448667 Tbxas1,TS,XTS,CYP5,THAS,XTAS,CYP5A1
A_51_P117426 Ube4a,UFD2b,4732444G18Rik,9930123J21Rik
A_51_P222863 Pik3r3,p55pik
A_51_P454752 ORF63,C21orf7
A_51_P137544 Krt1-12,K12,A830036E02,E130011P14
A_51_P117458 A130007F10Rik
A_51_P221199 Pacsin1,H74,syndapin,mKIAA1379,A830061D09Rik
A_51_P226494 AW495222

A_51_P415694 Gng12,2010305F15Rik
A_51_P460179 Txnrd2,TR3,Trxr2,Trxrd2,AA118373,ESTM573010
A_51_P363537 Solh
A_51_P374437 Rab40c,RAR3
A_51_P223363 Vps24,25.1,NEDF,CGI-49,D6Ertd286e,4921505F14F
A_51_P269584 A_51_P269584
A_51_P261483 Dncl2a,DNLC2A,2010012N15Rik,2010320M17Rik,9
A_51_P101149 Serpinb2,PAI-2,Planh2,ovalbumin
A_51_P374489 Il23a,p19
A_51_P387933 Slc5a11,Kst1,RKST2,SMIT2,Slc5a10,MGC25910,20
A_51_P222852 Taf2,TAF2B,150kDa,CIF150,TAFII150,4732460C16F
A_51_P211255 1110037F02Rik,mKIAA1429,4930422M05Rik
A_51_P254452 2810433K01Rik
A_51_P164645 Sp2,4930480I16Rik
A_51_P363519 2410025L10Rik,Gm1049
A_51_P387968 Ssh3,SSH-3,mSSH-3L
A_51_P236283 Safb,HAP,HET,SAFB1,E130307D12,5330423C17Ril
A_51_P379801 Fdps,Fdpsl1,MGC107162,mKIAA1293,6030492I17R
A_51_P260368 Kcnb1,Shab,Kv2.1,Kcr1-1
A_51_P497255 Defcr4,Crp4
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A_51_P117449 Whsc2,NELFA,Whsc2h
A_51_P505998 Atp2a3,Serca3,SERCA3b
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A_51_P395059 Gfap
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A_51_P504305 Car1,Car-1
A_51_P244617 2610507B11Rik,E1,mKIAA0100,D11Bhm178e,D11B
A_51_P101186 LOC382098
A_51_P395041 Bmx,Etk,Etk/Bmx
A_51_P497602 Dnajb12,Dj10,mDj10
A_51_P211291 2310004I24Rik,MDS006
A_51_P190864 Fzd3,Fz3
A_51_P189877 Psd4
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A_51_P374498 Tfb2m,Hkp1
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A_51_P129726 2010002A20Rik
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A_51_P218202 Commd1,Murr1
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A_51_P147030 9430037G07Rik
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A_51_P253532 Crebl1,Creb-rp
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A_51_P426253 Tal2
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A_51_P399188 AI463521
A_51_P199554 Ncam2,Ocam,RNCAM,Ncam-2
A_51_P401964 Aph1a,MGC7221,MGC36389,6530402N02Rik
A_51_P436763 Slamf6,KAL1,NTBA,KAL1b,Ly108,NTB-A,SF2000
A_51_P280114 Padi2,Pdi,Pdi2,mKIAA0994
A_51_P130267 D11Bhm181e
A_51_P335750 Chn1,ARHGAP2,0710001E19Rik,1700112L09Rik,29
A_51_P421668 AI427529
A_51_P412611 A330009N23Rik
A_51_P101380 St6gal1,Cd75,Siat1,ST6Gal,ST6Gal I,St6Gal-I,MGC1
A_51_P383718 D530033C11Rik,1700010I21Rik
A_51_P188155 Cacng5
A_51_P149885 Pln,PLB
A_51_P501632 Arg2,All
A_51_P401975 Enpp2,ATX,Npps2,Pdnp2,Autotaxin,PD-lalpha
A_51_P393098 Fut2
A_51_P511309 Pstpip1,def-2
A_51_P383703 Atoh1,Hath1,Math1,MATH-1
A_51_P453059 C130068O12Rik,STARS
A_51_P108479 Mrps18c,1110037D14Rik
A_51_P406478 TC1013382
A_51_P332205 Cst3,CysC
A_51_P249086 A_51_P249086
A_51_P127347 4933413G11Rik
A_51_P389553 D5Ertd422e
A_51_P366400 Ube2i,UBC9,Ubce9,Mmubc9,Ubce2i,5830467E05Rik
A_51_P406433 4931420C21Rik,D430018P08
A_51_P147662 Olfr251,MOR170-15
A_51_P253715 Cart1,C130005I02
A_51_P280165 Acate2,U8,p48,MT-ACT48,0610041P13Rik
A_51_P469061 Tfpt,FB1,Amida,2400004F01Rik
A_51_P504525 Derl1,Derlin-1,1110021N07Rik

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A_51_P401924 NAP057158-1
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A_51_P501666 D430013K02
A_51_P100746 Depdc1a,Depdc1,5830484J08Rik
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A_51_P229499 Lrfrn2,mKIAA1246,5730420O05Rik
A_51_P249063 Htr1a,Gpccr18
A_51_P377458 Slc5a6,MGC109689,E430023I20
A_51_P346173 0610012D14Rik
A_51_P128267 Cyld,EAC,CDMT,CYLD1,mKIAA0849,2010013M14R
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A_51_P229480 2900027M19Rik
A_51_P401935 Tnfrsf11b,Opg,TR1,OCIF
A_51_P389568 Il12rb2,lfnm,IL-12RB2,A930027I18Rik
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A_51_P106347 A530054K11Rik
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A_51_P499237 C330027C09Rik
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A_51_P389516 Ascc1,CGI-18,ASC1p50,1810015P09Rik
A_51_P501688 Cyp2d13,1300007K12Rik
A_51_P475041 Tspyl1,Tspyl
A_51_P357574 Cald1,MGC30319,4833423D12Rik
A_51_P301654 2610209L21Rik
A_51_P249076 Speer4f,SPEER-4F,4922502J04Rik
A_51_P183300 Atp5g1
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A_51_P152272 Zfp289,2310032E02Rik
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A_51_P504153 Syt5,Syt9,SytV,SytlX
A_51_P377427 Gab3,5930433H21Rik
A_51_P199593 2010203O07Rik
A_51_P357504 D430025H09Rik
A_51_P182811 A_51_P182811
A_51_P139257 Zfp532,mKIAA1629,C530030I18Rik
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A_51_P301676 Rgl3,1300003D20Rik
A_51_P261658 Trim45,4921530N01Rik
A_51_P167009 Sec24b,SEC24
A_51_P388208 Eif2c4,Ago4,5730550L01Rik
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A_51_P196314 Aco2,Aco3,Aco-2,D10Wsu183e
A_51_P459579 Pdzk4,LU1,Xlu,PDZD4,PDZRN4L,Pdznk4l,B230341
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A_51_P314261 Ssr2,TLAP,TRAPB,TRAPbeta,1500032E05Rik

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A_51_P133897 Chrna5,Acra5,Acra-5
A_51_P301696 Cdh8
A_51_P151274 Foxj2,Fhx
A_51_P390950 Mrgprb5,MrgB5
A_51_P101663 1200014J11Rik
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A_51_P371612 Net1,Net1a,mNET1,0610025H04Rik,9530071N24Rik
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A_51_P193860 Gtf3c4,5330400C03
A_51_P485384 Snap23,Sndt,23kDa,Syndet,SNAP-23
A_51_P239821 BU592067
A_51_P427412 Olfr711,MOR103-4
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A_51_P453413 Usp15,Gcap18,mKIAA0529,4921514G19Rik,E43003
A_51_P338337 Tdg,Jza1,JZA-3,E130317C12Rik
A_51_P122875 ENSMUST00000050969
A_51_P398614 Cacnb4,lh,Cchb4,MGC31529,lethargic
A_51_P223673 Plxnb2,Debt,mKIAA0315,1110007H23Rik
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A_51_P460613 Calm4,DD112,Scarf,2310037J09Rik
A_51_P453766 Cdcp1,9030022E12Rik,E030027H19Rik
A_51_P343526 Fgd1,ZFYVE3
A_51_P382188 Ptpa,Ptpa,PTP[a],RPTR[a],PTPalpha,RPTRalpha
A_51_P239882 1700123L14Rik
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A_51_P137467 Lypla3,ACS,LLPL
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A_51_P189962 6530413N01Rik
A_51_P434759 4930403C10Rik
A_51_P505982 4932701A20Rik
A_51_P260886 Med28,Eg1,FKSG20,magicin,1500003D12Rik
A_51_P250307 Itpkb,1110033J02Rik,E130307H12Rik
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A_51_P421763 D830007B15Rik
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A_51_P130104 Fcgr2b,CD32,Fcgr2,Fcr-2,Fcr-3,Ly-17,LyM-1,Lym-1,l
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A_51_P335490 Sgca,Asg,50DAG,59kDa,adhalin
A_51_P114238 Zfp36l2,Brf2,ERF2,Tis11d
A_51_P412353 Scnn1b
A_51_P387673 Gtpbp4,NGB,Crfg,Gtpbp3,2610028C09Rik
A_51_P204971 Slc26a9,E030002L01Rik
A_51_P485318 Ddb2,2610043A19Rik
A_51_P158373 NAP108561-1
A_51_P347904 E130105L11Rik
A_51_P211798 Ribp1,CRALBP,3110056M11Rik
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A_51_P294635 Cdr2
A_51_P114204 C85403
A_51_P461274 LOC208158
A_51_P253632 Mrps9,mg637,2310002A08Rik
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A_51_P147112 Nova1,Nova-1,9430099M15Rik
A_51_P306885 Mrpl51,CDA09,Mrp64,HSPC241,2610511M02Rik
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A_51_P158314 nsk1
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A_51_P171553 5830457O10Rik
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A_51_P301123 Sp100,A430075G10Rik
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A_51_P147145 NAP057148-1
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A_51_P514561 Ptma,Thym,MGC102090,MGC103390
A_51_P306867 2700062C07Rik,MGC103375
A_51_P369382 1110021L09Rik
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A_51_P229565 NAP057131-1
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A_51_P297940 Lrrk1,MGC28646,mKIAA1790,D130026O16Rik
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A_51_P292846 Snap29,Gs32,1300018G05Rik
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A_51_P408498 Trim36,haprin,D18Wsu100e
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A_51_P122922 NAP057034-1
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A_51_P324546 A130092J06Rik
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A_51_P106098 Mocs1,3110045D15Rik
A_51_P421422 Hsd3b1,D3Ert383e
A_51_P275163 Olfr633,MOR12-5
A_51_P326439 Car6,DOC1
A_51_P173911 Gabrb2,GABA-A,Gabrab2,Gabrb-2
A_51_P254891 A_51_P254891
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A_51_P405278 Klf7,9830124P08Rik
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A_51_P324596 Mrpl45,2600005P05Rik
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A_51_P335120 Zfp294,4930528H02Rik
A_51_P503933 Calm1,Calm
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A_51_P306948 D430014M15
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A_51_P496987 Adamts1,punctin-1,6720426B09Rik
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A_51_P183121 Cds2,D2Wsu127e,5730450N06Rik,5730460C18Rik
A_51_P357769 A_51_P357769
A_51_P106124 Armc4,4930463I21Rik
A_51_P226374 Hnrpd,Auf1
A_51_P467079 Defcr3,Defcr-3
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A_51_P393224 H2-Eb1,la4,la-4,H-2Eb,H2-Eb,E-beta-b,H-2E beta

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A_51_P126611 Tex23,TEG-23
A_51_P393276 Cab39l,MO2L,1500031K13Rik,2810425O13Rik,493C
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A_51_P166089 Socs5,Cish5,KIAA0671,mKIAA0671,1810018L08Rik
A_51_P149944 Pdhx,E3bp,Pdx1
A_51_P324636 Elovl3,CIN-2,Cig30
A_51_P370716 Gsc
A_51_P401580 Defb2
A_51_P470136 A_51_P470136
A_51_P126640 Bri3,l3
A_51_P329992 1700095G12Rik
A_51_P393264 Foxa3,Hnf3g,Tcf3g,Hnf-3g,Tcf-3g
A_51_P206676 Col9a3
A_51_P152013 Sox11,end1,1110038H03Rik,6230403H02Rik
A_51_P206692 Cml2
A_51_P157351 Usp33,Vdu1,9830169D19Rik
A_51_P223442 Cd81,Tapa1,Tapa-1,Tspan28
A_51_P475612 B430104H02Rik
A_51_P149932 A_51_P149932
A_51_P126691 Nfatc4,Nfat3,3110041H08Rik
A_51_P152084 AL024069,MGC90850
A_51_P486208 Prkwk4,WNK4,PHA2B,2010002J11Rik
A_51_P154351 Egfl5,mKIAA0818,9630025C07,4933405H16Rik
A_51_P137675 Rnu11
A_51_P502041 A_51_P502041
A_51_P174301 TC1082914
A_51_P276198 Cox10,2410004F01Rik
A_51_P223462 Efhd2,D4Wsu27e,2600015J22Rik
A_51_P338594 Tmem14c,HSPC194,1110021D01Rik
A_51_P444633 Dapk1,D13Ucla1,DAP-Kinase,2310039H24Rik,2810
A_51_P343727 Slc39a2
A_51_P250173 Stat1,2010005J02Rik
A_51_P299860 1700125H20Rik
A_51_P387083 Kcnp2,KChIP2,KChIP2a,KChIP2b
A_51_P188447 Tex2,Taz4,Def-5,4930568E07Rik
A_51_P501576 Mrpl19,RLX1,Rpml15,MRP-L15,D6Ertd157e,903041
A_51_P358125 ENSMUST00000050287
A_51_P105424 1700127D06Rik
A_51_P399029 A_51_P399029
A_51_P223412 Casp9,Mch6,ICE-LAP6,Caspase-9

A_51_P338504 4930402K13Rik
A_51_P101812 Olfr198,MOR182-8
A_51_P501049 Nnat,Peg5,5730414I02Rik
A_51_P430821 Dlg5,mKIAA0583,4933429D20Rik
A_51_P480212 Dvl3
A_51_P299819 A_51_P299819
A_51_P208390 Ppp4c,Ppx,1110002D08Rik
A_51_P368545 Abhd8,0910001L24Rik
A_51_P149929 5430410E06Rik
A_51_P335653 B3gnt1,B3Galt6,Beta3gnt,beta-3Gnt
A_51_P244545 2610507B11Rik,E1,mKIAA0100,D11Bhm178e,D11B
A_51_P501015 Nek2
A_51_P250137 3830408C21Rik
A_51_P191391 Pom121,2610027A18Rik
A_51_P101836 Tnrc15,Gigyf2,MGC38689,mKIAA0642,2610016F01I
A_51_P493537 Ftl2,Ftl,Ftl-2
A_51_P188407 NAP112901-1
A_51_P368558 D0HXS9928E,XAP-5
A_51_P149997 Endogl1,ENGL,ENGL-B,ENGL-a,ENDOGL2,473246I
A_51_P160714 Alb1,Alb-1,albumin
A_51_P157381 1810006K23Rik
A_51_P112723 Polg2
A_51_P473089 Cggbp1
A_51_P493570 Olfr148,M30,MOR224-4
A_51_P187872 A030007E19Rik
A_51_P343748 ENSMUST00000063442
A_51_P335669 Rps28
A_51_P465644 Tnfsf11,ODF,OPG,OPGL,RANKL,Ly109I,Trance
A_51_P497560 Vps18,MGC36479,9930024E13Rik
A_51_P244518 Olfr42,IA3,MOR256-31,MOR256-61
A_51_P203191 Mbd4,Med1
A_51_P347332 Dusp4,2700078F24Rik,E130306H24Rik
A_51_P101856 Dlg1,SAP97,KIAA4187,mKIAA4187,B130052P05Ri
A_51_P421729 Slc12a7,Kcc4,D13Erttd261e
A_51_P326573 A830023I12Rik
A_51_P368570 Hars2,0610006H08Rik
A_51_P420130 1700066J24Rik
A_51_P399090 Trappc1,BET5,MUM2,D11Erttd172e
A_51_P476280 Pank3,MGC38148
A_51_P436646 Ccl7,fig,marc,mcp3,MCP-3,Scya7
A_51_P511269 Pou3f1,Otf6,Scip,Oct-6,Test1,Tst-1
A_51_P261147 Lig3,MGC78176,D11Wsu78e
A_51_P346475 Tom1l2,Srebf1,2900016I08Rik,A730055F12Rik
A_51_P332755 1700040F17Rik
A_51_P335697 Krtap4-7,KAP4.7,KRTAP4.7,2310037K05Rik
A_51_P434557 Jrk
A_51_P118852 Fcnb
A_51_P208319 Ctsq,1600010J02Rik
A_51_P230509 EII2
A_51_P441726 Fut4,FAL,FucT-IV
A_51_P160780 Fgr
A_51_P101871 Dtnb,dtn-b

A_51_P379161 Lhx6
A_51_P387006 2900056L01Rik
A_51_P187839 Olfr460,MOR120-2
A_51_P253007 Cbl11,Hakai,c-Cbl-like
A_51_P420059 Lgals2,2200008F12Rik
A_51_P346415 Pknox1,PREP1,D17Wsu76e
A_51_P245208 Gng4,4
A_51_P147748 Gast,GAS
A_51_P412148 A_51_P412148
A_51_P187841 Eif4e3,eIF4E-3,1300018P11Rik
A_51_P452997 Ppap2b,Lpp3,Ppab2b,D4Bwg0538e,D4Bwg1535e,11
A_51_P250191 Otx2,E130306E05Rik
A_51_P111304 A930025J12Rik
A_51_P209801 TC949982
A_51_P245233 1110054N06Rik
A_51_P314931 Lsm2,G7b,SmX5,Dmapl,Sm-X5,snRNP,Dmpkap,MG
A_51_P434513 Med25,ESTM2,2610034E13Rik,2610529E18Rik
A_51_P111315 Loxl3,Lor2,Loxl2
A_51_P441193 Olfr19,MTPCR15,MOR140-1
A_51_P135742 Gcnt2,IGnTA,IGnTB,IGnTC,5330430K10Rik
A_51_P390885 Pacsin2
A_51_P209872 Rab6,2610028L11Rik
A_51_P297108 Ucp2,Slc25a8
A_51_P253037 Rbmy1a1,RBM,Rbm1
A_51_P245253 Zfp202,Znf202,C130037E22Rik
A_51_P209815 Prtn3,mPR3
A_51_P469739 Olfr1502,MOR211-1
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A_51_P411044 9530080O11Rik
A_51_P411079 Ezh1,mKIAA0388
A_51_P282833 St14,MT-SP1,Prss14,Epithin
A_51_P172661 Usp2,Ubp41,Usp2-45,Usp2-69,B930035K21Rik
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A_51_P331669 A_51_P331669
A_51_P183417 Guca2b,Ugn,Gcap2
A_51_P209850 BC005561
A_51_P346488 Syn2,2900074L19Rik
A_51_P276506 Olfr1239,MOR231-3
A_51_P357223 Calml4,2010002G05Rik
A_51_P301745 Ppp2r2a,mKIAA1541,2410004D02Rik
A_51_P172605 Car12,2310047E01Rik
A_51_P229793 Gbif,MGC25252
A_51_P365226 Eif3s6,Int6,48kDa,eIF3e,eIF3-p46,eIF3-p48
A_51_P111352 Galk2,Gk2,2810017M24Rik
A_51_P183439 C77080,mKIAA1522
A_51_P479929 Drap1,2310074H19Rik
A_51_P282859 4930518C23Rik
A_51_P436689 Apob,apob-48,apob-100
A_51_P159314 A_51_P159314
A_51_P332797 Ets2,Ets-2
A_51_P393747 Ddx58,RIG-I,C330021E21,6430573D20Rik

A_51_P206538 Igl1,Igl1,Igl-5
A_51_P365262 Kcnq2
A_51_P187897 H60
A_51_P107917 Ppp1cc,PP1,dis2m1
A_51_P467108 Dpp4,Cd26,THAM,Dpp-4
A_51_P215296 4921513D09Rik
A_51_P167284 Sprrl3,2200008B06Rik
A_51_P171394 Tbc1d5,KIAA0210,mKIAA0210,1600014N05Rik
A_51_P504832 6430517E21Rik,mKIAA1747
A_51_P362812 Era1,Era,MERA-S,MERA-W,2610524P08Rik,913040
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A_51_P301726 Rpl9,MGC102393
A_51_P229735 4930481B07Rik
A_51_P193398 2310042L06Rik
A_51_P373328 Pfdn1,2700086I23Rik
A_51_P259927 Slc15a3,Ci1,cl-1
A_51_P370614 Neurog2,ngn2,Atoh4,ngn-2,Math4A
A_51_P275333 5430427O21Rik
A_51_P101755 Cntn1,CNTN,F3cam
A_51_P126789 Nope,DDM36,WI-18508,mKIAA1628,9330155G14Ri
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A_51_P137361 Clcn3,Clc3
A_51_P504496 Dll3,pu,pudgy
A_51_P324701 Mrpl16,2310039D06Rik
A_51_P276264 Spib,Spi-B
A_51_P196001 Rps15,rig
A_51_P370635 0610009K11Rik
A_51_P491696 Olfr47,IB12,MOR261-9
A_51_P202979 Cecr6
A_51_P480168 Edg8,S1P5,lpB4
A_51_P301785 2310001H12Rik
A_51_P254903 4933426M11Rik,mKIAA0247
A_51_P324713 Kcnv1,2700023A03Rik
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A_51_P223549 Nmnat2,PNAT1,PNAT2,MGC113818,D030041I09Rik
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A_51_P458998 Vps11,1200011A11Rik
A_51_P164892 TC1062094
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A_51_P177626 Brp17,MR-1,Tahccp2,MNCb-5687,2210013N15Rik,2
A_51_P343257 Rims3,Nim3,Rim3,mKIAA0237,A730060M23Rik
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A_51_P483071 5330440M15Rik,MGC8183
A_51_P482535 Ulk1,Unc51.1,mKIAA0722
A_51_P275382 TC986879
A_51_P387713 Prkci,Pkci,Pkcl,Prkcl,KIAA4165,mKIAA4165,2310021
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A_51_P250207 NAP057197-1
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A_51_P408653 Tmem46,9430059P22Rik
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A_51_P485483 Bat2,G2,Bat-2,Wbp12,KIAA4178,D17H6S51E,mKIA/
A_51_P359712 Gpr82
A_51_P483008 1110018G07Rik,mKIAA0317
A_51_P218450 9030227G01Rik
A_51_P250220 Pck1,PEPCK,Pck-1
A_51_P387755 Daam2,2310016D11Rik
A_51_P132552 Trip10,Cip4
A_51_P260954 C530028O21Rik
A_51_P171437 Nov,C130088N23Rik
A_51_P175891 Tnfrsf22,SOBa,Tnfrh2,Tnfrsf1al2,mDcTrailr2,281002
A_51_P335306 Ppm1a,MMPa-2,MPPa-1,2310003C21Rik,2900017D
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A_51_P501082 Olfr32,MTPCR05,MOR227-7P,MOR227-9_p
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A_51_P346504 Cyp2u1,8430436A10Rik
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A_51_P128656 4930533L02Rik
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A_51_P501235 BY715230
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A_51_P402416 2310004L02Rik,C030044E10Rik
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A_51_P382443 Eftud1,D7Ertd791e,4932434J20Rik,6030468D11Rik
A_51_P230246 Cdc42bpa,DMPK-like,A930014J19Rik
A_51_P111023 A230048G03Rik,KIAA1414,MGC77977,2010013B10
A_51_P245336 Aqr,mKIAA0560
A_51_P278989 Parp2
A_51_P143655 Epo
A_51_P171468 Fut11,3110009G03Rik
A_51_P332611 Usp38,mKIAA1891,4631402N15Rik,4833420O05Rik
A_51_P346533 4930518F22Rik
A_51_P418165 Armet,3230402M22Rik
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A_51_P220091 1600015H20Rik

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A_51_P281225 5730445M16Rik
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A_51_P208638 Poldip2,Pdip38,1300003F06Rik
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A_51_P245380 AI853106
A_51_P209970 Iqcc,MGC28034
A_51_P199964 4930488L10Rik,2610019M19Rik
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A_51_P441407 Olfr1303,MOR245-7
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A_51_P305640 Krtap5-1
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A_51_P499160 Tram1,TRAMP,MGC1174,1810049E02Rik
A_51_P118127 Skil,sno,Skir,SnoN,SnoN2,sno-dE3,9130011J04Rik
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A_51_P259800 March7,Axo,Axot
A_51_P324006 Echdc1,D10Ert667e,1700028A24Rik
A_51_P157118 Serpina3c,1A1,Kalbp,Klkbp
A_51_P324070 March6,3830408G03,F830029L24Rik
A_51_P499100 Mettl1,2810012D02Rik
A_51_P471914 4921507L20Rik
A_51_P124132 Cyp2d26,1300006E06Rik
A_51_P270513 2610040C18Rik,2810407L01Rik
A_51_P491195 Pitpnb
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A_51_P473222 Ysg2,LSE
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A_51_P340854 Kcns2,Kv9.2,E130006J24Rik
A_51_P335050 Bhmt,MGC46866
A_51_P324020 Il18rap
A_51_P226182 Ssa2,Ssa,SS-A/Ro,1810007I17Rik,A530054J02Rik
A_51_P235856 AV249152
A_51_P164995 Stmn2,SCG10,Stmb2,Scgn10
A_51_P275283 B930037P14Rik
A_51_P340819 lpp,Mipp,D4Jhu8
A_51_P100101 Cd209d,SIGNR3,SIGN-R3,mSIGNR3
A_51_P338726 0610010E21Rik
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A_51_P421351 Pcgf3,Rnf3,DONG1,RNF3A,E430039C14,2310035N
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A_51_P199674 Pde6g,Pdeg
A_51_P458796 B830013J05Rik,9430031G09,9430091M14Rik
A_51_P421525 AA407948

A_51_P368755 Gabrb1,Gabrb-1
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A_51_P421328 Glra4
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A_51_P230762 D16Erttd642e,Gm1750,6330444M21Rik
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A_51_P294255 BC051244,MGC59076
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A_51_P190103 Ralgps2,1810020P17Rik,2210408F11Rik,4921528G
A_51_P188614 Oas1b,L1,Flv,Wnv,Oias2,Mmu-L1,Oias-2
A_51_P275293 Lcp1,Pls2,L-fimbrin,D14Erttd310e
A_51_P449635 1700125F08Rik
A_51_P138818 A_51_P138818
A_51_P457777 AK083793
A_51_P164934 BC014685,MGC25977,MGC37802
A_51_P154083 Mettl3,M6A,Spo8,2310024F18Rik
A_51_P135532 C330006D17Rik
A_51_P386970 NAP108738-1
A_51_P321990 5830484A20Rik,lpr1,lfi75,Sp110
A_51_P426677 Nola3,NOP10,NOP10P,1110036B12Rik
A_51_P260912 2810416G20
A_51_P454285 Chd4,KIAA4075,MGC11769,mKIAA4075,D6Erttd380
A_51_P174181 A_51_P174181
A_51_P402704 A_51_P402704
A_51_P284475 Tsc22d4,Tilz2,Thg-1pit,0610009M14Rik
A_51_P469551 Slc18a2,Vmat2,MGC90556,9330105E13,1110037L1
A_51_P100180 A_51_P100180
A_51_P311197 Snap91,91kDa,AP180,F1-20,mKIAA0656
A_51_P320320 Kif13b
A_51_P240767 Kras,ras,p21B,K-ras,Kras2,Ki-ras,Kras-2,MGC7141
A_51_P501132 NAP057261-1
A_51_P167403 Bglap2,OG2,mOC-B
A_51_P335089 Zcchc4,4930449I23Rik
A_51_P312061 BC028450,Lrrk1,8030425L21
A_51_P473051 Alox5,5LO,5LX,5-LO,5-LOX,F730011J02
A_51_P208109 Garnl1,GRYPE,Tulip1,mKIAA0884,2310003F20Rik,49
A_51_P261320 Fbxo33,5730501N20Rik
A_51_P297366 Olfr530,MOR252-2
A_51_P386939 NAP057225-1
A_51_P111571 Rin3,6430500K07
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A_51_P312039 BC034097,CLM2,TREM5,MGC31495,MGC49720

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A_51_P111509 NAP108443-1
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A_51_P208163 Slc7a13,AGT1,XAT2,AGT-1,0610009O04Rik
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A_51_P473086 Tbxar2,TP,MGC107665
A_51_P438756 AK079064
A_51_P147527 Sv2a
A_51_P199606 Ttll1,6330444E16Rik
A_51_P297308 Csnk1g2,2810429I12Rik
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A_51_P308730 Pdzk8
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A_51_P515651 Pcdhb22,PcdhbV,Pcdhb15
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A_51_P435167 Col12a1,AW743884
A_51_P172004 4930517K11Rik
A_51_P206734 Cyp2a12
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A_51_P499910 Hck,Bmk,Hck-1,MGC18625
A_51_P146254 Ranbp3,2610024N24Rik
A_51_P261386 Spats2,p59,59kDa,Scr59,2700012F11Rik
A_51_P253151 Sfn1
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A_51_P515669 LOC194433
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A_51_P370042 NAP108521-1
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A_51_P296655 Pcdhga3
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A_51_P368097 Ssfa2,CS1,CS-1,KRAP,SPAG13,mKIAA1927,57304f
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A_51_P318920 Hdhd2,0610039H12Rik,3110052N05Rik
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A_51_P206704 Acox2
A_51_P324172 Rasgrf1,Grf1,p190,CDC25,P190-A,CDC25Mm,Grfbc
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A_51_P181826 1700007B13Rik,Pdilt
A_51_P315193 9130221H12Rik
A_51_P140240 Arsb,As1,As-1,As-1r,As-1s,As-1t,As1-r,As1-s,As1-t,A
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A_51_P470077 Cuedc1,C330016O16Rik
A_51_P378990 1700055O19Rik
A_51_P318915 Prrxl1,Drg11
A_51_P340966 Rem1,Rem,E030011C07Rik
A_51_P172083 Arhgdig,Gdi5,RIP2,Rho-GDI2,Rho-GDI-3
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A_51_P105515 Gemin6,2610019B15Rik,2810470M17Rik
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A_51_P448636 9530020G05Rik
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A_51_P387191 Vrk3
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A_51_P352824 Arpc5,165kDa,p16-Arc,5830443F10Rik
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A_51_P493243 Atxn2l,A2D,A2LG,A2RP,A2lp,Atxn12
A_51_P368001 E2f2,E130207A07
A_51_P227732 Tead2,ETF,Etdf,TEF4,TEF-4,TEAD-2
A_51_P178979 Dnahc2,4930564A01,D330014H01Rik
A_51_P472998 NAP057029-1
A_51_P467391 V1rj2,V1RE8
A_51_P203410 Tead3,TEF-5,DTEF-1,ETFR-1,TEAD-3,Tcf13r2
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A_51_P516950 Fbxo7,2410015K21Rik
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A_51_P178952 Npas2,MOP4
A_51_P379080 Adam24,Dtgn5
A_51_P480309 F2,Cf2,FII,Cf-2
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A_51_P181882 Dpp3,4930533O14Rik
A_51_P174068 Tnik,1500031A17Rik,4831440I19Rik,C530008O15Ri
A_51_P130405 Ppp1r13b,p85,ASPP1,Trp53bp2,Trp53bp2
A_51_P128489 Tcn2,Tcn-2
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A_51_P379076 Dkk1,mdkk-1
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A_51_P101940 Pofut1,KIAA0180,O-FucT-1,mKIAA0180
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A_51_P130439 Ucp3,UCP-3,Slc25a9
A_51_P493220 Ccr9,Cmkbr10,GPR-9-6
A_51_P171255 Fanca,D8Erttd106e
A_51_P426555 Ftsj1,Ftsj,Ftsjl,Sfc12
A_51_P178911 TC1073196
A_51_P154374 BC062109
A_51_P386385 Scotin,2310008D10Rik,6430628I05Rik
A_51_P475395 Cdc42bpb,DMPK-like
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A_51_P111234 Drd2,D2R,Drd-2
A_51_P426544 9630031F12Rik
A_51_P379037 Dgcr8,Gy1,N41,D16Wis2,D16H22S788E,D16H22S1

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A_51_P349971 Bnip2,Nip21,BNIP2beta,5730523P12Rik
A_51_P120554 Hdhd1a,GS1,1700121L12Rik
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A_51_P183573 Serpine1,PAI1,PAI-1,Planh1
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A_51_P344706 Rock1,Rock-I,1110055K06Rik
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A_51_P147814 Slc6a5,Glyt2
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A_51_P245155 Gdf2,Bmp9
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A_51_P375781 Prap1,Upa
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A_51_P335557 Snap25,sp,25kDa,SNAP-25
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A_51_P485428 Lrrc8,MGC61242,mKIAA1437
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A_51_P147846 Hand2,Hed,Th2,dHAND,Ehand2,Thing2
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A_51_P292110 Aut2,2700063G02Rik,A730011F23Rik,D830032G10
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A_51_P111282 Krt1-10,K10,K1C1,Krt-1.10,D130054E02Rik
A_51_P206243 Ahcy11,DCAL,Irbit,Ahcy-rs3,1110034F20Rik
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A_51_P332761 Zfp259,ZPR1
A_51_P394005 Sucnr1,Gpr91
A_51_P146360 Cerk,mKIAA1646,D330016D08Rik
A_51_P458802 Ptger4,EP4,Ptgerep4
A_51_P301868 Card6,D730008L15
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A_51_P223887 2510042P03Rik
A_51_P399456 A330015D16Rik
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A_51_P427297 Shmt1,Shmt,mshmt,mshmt1,mshmt2
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A_51_P343319 Cox6c
A_51_P457536 Cdh17,HPT-1,HPT-1/LI
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A_51_P230995 2610206C24Rik
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A_51_P343326 Gpr110,5031409J19Rik
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A_51_P382781 Ddit3,chop,CHOP10,CHOP-10,gadd153
A_51_P100312 Oprm1,mor,Oprm,muOR,MOR-1,receptor
A_51_P380834 Sdccag10,NY-CO-10,3110009E13Rik
A_51_P190331 Prdm4,SC-1,2810470D21Rik
A_51_P134741 Gss,GS-A/GS-B
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A_51_P234535 Nfxl1,GCF,TCF9,DNABF,Gm1058,1700012H24Rik,E
A_51_P481513 Prdm13
A_51_P100361 1810043M15Rik
A_51_P154242 Cspg3,Ncan,Tgfbit,neurocan,C230035B04
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A_51_P367934 Peg10,Edr,HB-1,MEF3L,Mart2,MyEF-3
A_51_P501354 Parva,Actp,Parvin,CH-ILKBP,2010012A22Rik,54304
A_51_P143730 Psm14,Pad1,Poh1,rpm11,2610312C03Rik,3200001
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A_51_P159132	Pdip	
A_51_P499072	Mal,MPV17,VIP17	
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A_51_P435821	2410081M15Rik	
A_51_P266568	Vps33a,bf,3830421M04Rik	
A_51_P309840	Labx,lbx	
A_51_P364448	NAP057247-1	
A_51_P112712	Atp9b,Ilb,Atpc2b	
A_51_P397222	TC996408	
A_51_P203324	Rbm10,MGC7826,E430039K10Rik	
A_51_P142760	Glt8d2,MGC100315,1110021D20Rik	
A_51_P192656	Atp5s,ATPW,facyor B,1110015E18Rik	
A_51_P451066	Atp2a2,SERCA2,KIAA4195,mKIAA4195,9530097L16	
A_51_P266517	Cdk2,A630093N05Rik	
A_51_P349132	Klrb1a,Ly55a,NKR-P1A,Nkrp1-a,NKR-P1 2	
A_51_P459899	NAP057144-1	
A_51_P498353	1600027N09Rik	
A_51_P510489	Olfir178,MOR184-6	
A_51_P233596	Retn,ADSF,Rstn,Xcp4,Fizz3	
A_51_P209730	Atoh8,Hath6,Math6,okadin,4933425C05Rik	
A_51_P119901	D930017K21Rik	
A_51_P282101	Rhobtb3,mKIAA0878,1700040C17Rik,2610033K01R	
A_51_P333365	A_51_P333365	
A_51_P329544	Nckipsd,DIP1,ORF1,WISH,Wasbp,AF3P21,SPIN90,1	
A_51_P428688	Galc,twi,Gacy,twitcher,2310068B06Rik,A930008M05	
A_51_P460578	9130019O22Rik	
A_51_P313292	1700023B02Rik,Cir,Cicr,2810021A19Rik	
A_51_P438439	Rasgrf2,Grf2	
A_51_P329535	Hcn2,HAC1,BCNG2	
A_51_P309897	Fars2,Fars1,2810431B21Rik,6720478K01Rik	
A_51_P364479	Tnfaip2,Tnfpip2,tnfb94	
A_51_P207140	Pdpk1,Pdk1	
A_51_P145230	ENSMUST00000059869	
A_51_P169853	Tbk1,1200008B05Rik	
A_51_P219912	6330530A05Rik,MGC48203	
A_51_P394727	1110001A12Rik	
A_51_P169825	Zic3,Bn	
A_51_P104021	NAP057064-1	
A_51_P207164	Tgm1,Tgase1,2310004J08Rik	
A_51_P329501	Myo1d,myosin-1d,9930104H07Rik	
A_51_P512017	Elk1,Elk-1	
A_51_P350668	Peli2	
A_51_P329508	1110037N09Rik,Rreb1,B930013M22Rik	

A_51_P219938 Erbb4
A_51_P194785 Hrsp12,HR12,HRP12
A_51_P219973 Fah
A_51_P246488 NAP057252-1
A_51_P112782 Golga4,Olp-1
A_51_P414606 Chrm1,M1,M1R,Chrm-1
A_51_P364431 B3gat3,2810405M13Rik
A_51_P207107 Oprd1,Nbor,mDOR,DOR-1
A_51_P304769 AF013969,mKIAA1327
A_51_P457201 Sfrp4
A_51_P479634 BE947002
A_51_P438415 A_51_P438415
A_51_P413315 Tubb5,M(beta)5,B130022C14Rik
A_51_P197672 2610510J17Rik
A_51_P288336 Hpd,Hppd
A_51_P278094 Snx6,2010006G21Rik,2610032J07Rik,2810425K19F
A_51_P180811 2210409E12Rik
A_51_P207113 NAP057159-1
A_51_P457216 AK085543
A_51_P417305 Taf9,Taf2g,2310012M09Rik,2810046E22Rik,492151
A_51_P338714 Ass1,ASS,Ass-1,MGC103151
A_51_P303278 Olfr160,M72,Olfr7b,MOR171-3
A_51_P113585 Oit1,EF-7,MGC37550,2310076N21Rik
A_51_P488735 Zfp612,B230354B21Rik
A_51_P417341 Abcb7,Abc7
A_51_P121797 A_51_P121797
A_51_P188185 Zfp617,Zfps11-6
A_51_P268694 Slc1a3,Gmt1,Eaat1,GLAST,GLU-T,GluT-1,MGluT1,C
A_51_P180832 Kynu,4432411A05Rik
A_51_P105877 Myo5b
A_51_P364489 B230220N19Rik
A_51_P303211 C2ta,CIITA
A_51_P512698 A530065E19Rik
A_51_P303258 Gria2,Glur2,GluR-B,Glur-2,short form
A_51_P105834 Wbscr17,E330012B09Rik
A_51_P514439 Htr3b,5-HT3B
A_51_P180862 Ncoa5,CIA,MGC28864
A_51_P409049 Tnfrsf21,DR6,TR7
A_51_P461245 Mylk2,9830004H17Rik
A_51_P375423 Fgf4,KS3,hst,Fgfk,kFGF,Fgf-4,hst-1,Hstf-1
A_51_P115956 ENSMUST00000052056
A_51_P404486 Muc6
A_51_P520110 Adprhl2,Arh3
A_51_P180855 NAP057133-1
A_51_P219999 NAP030303-1
A_51_P323732 5330427O13Rik
A_51_P191802 Dnase1I3
A_51_P178055 BC008103,mst,FLJ10504,MGC11722
A_51_P268639 1810073H04Rik
A_51_P408249 Abcb10,Abc-me,Abcb12
A_51_P180884 Grid2,Lc,ho,cpr,tpr,Lc<J>,Ms10ac,MMS10-AC,GluRc
A_51_P238954 ENSMUST00000068574

A_51_P477030 Gbl,0610033N12Rik
A_51_P496683 B4galt2,Ggtb2
A_51_P278078 Tpr,2610029M07Rik
A_51_P303247 Tnp02,IPO3,TRN2,Knpb2b,Kpnb2b,MGC6380,11100
A_51_P180669 Pib5pa,Pipp
A_51_P315392 2310001N14Rik,Mdp77
A_51_P104789 Hmgn2,Hmg17,HMG-17,MGC102472,MGC103137
A_51_P224592 Arl10b,gie2,1110033P22Rik
A_51_P208860 Al553587,HZGJ
A_51_P490999 Gas2l1,GAR22,D0Jmb1,TU-71.1,4930500E24Rik
A_51_P163245 Schip1,Nf2ip,SCHIP-1
A_51_P213329 Hdac11,MGC27683
A_51_P417918 BC023181,mKIAA0720
A_51_P191858 Centb5,mKIAA1716,Kiaa1716-hp
A_51_P288386 Prkcabp,Pick1
A_51_P268625 Fbln2
A_51_P238973 D930040M24Rik,L3mbtl4
A_51_P421908 Tox,1700007F02Rik
A_51_P104798 Lrrn6a,LERN1,UNQ201,4930471K13Rik
A_51_P470348 4930412O13Rik
A_51_P427762 Diap1,Dia1,Drf1,KIAA4062,p140mDia,mKIAA4062,D
A_51_P486024 Mif,GIF,Glif,MGC107654
A_51_P381284 ENSMUST00000063427
A_51_P178011 Zfyve26,Gm893,KIAA0321,mKIAA0321,4930465A13
A_51_P163225 2810403A07Rik,A430106P18Rik
A_51_P386325 2410137M14Rik
A_51_P420908 Tex101,TES101RP,1700008H15Rik
A_51_P150698 Faslgld,CD178,CD95L,Fas-L,Tnfsf6,APT1LG1,Fas-l
A_51_P210281 Cacng1
A_51_P246331 Mipep,5730405E07Rik
A_51_P209460 D6Wsu116e,A130095H06,C530005J20Rik
A_51_P213341 Tce1,SSB3,KIAA4204,mKIAA4204,2310012N15Rik,
A_51_P403240 Hdac7a,Hdac7,5830434K02Rik
A_51_P480008 Car11
A_51_P467412 Npm1,B23,NO38,MGC102162,MGC107291
A_51_P427742 2210010L05Rik,9630025I22Rik
A_51_P272254 D930031B21Rik
A_51_P481742 Sstr5
A_51_P221215 Cxcl5,LIX,GCP-2,Scyb5,Scyb6,ENA-78,AMCF-II,che
A_51_P445194 C1d,SUN-CoR,1110036E10Rik
A_51_P220970 A_51_P220970
A_51_P142405 Psp
A_51_P316692 Rhbdl1,Rhbdl,MGC28800
A_51_P159655 2410127E16Rik
A_51_P499343 Tspy-ps
A_51_P221248 Phemx,Art-1,Tssc6,Tspan32,D7Wsu37e
A_51_P272243 D11Moh34,MGC7335
A_51_P209441 Rpl36al,RPL36A,2410038A03Rik
A_51_P159603 DXImx50e,Jm11,Sfc25
A_51_P166552 Gzmk
A_51_P507073 BC064011
A_51_P213356 Has2

A_51_P488590 Fkbp1a,Fkbp,12kDa,Fkbp1,FKBP12,mFKBP1,mFKB
A_51_P451368 Drbp1,Drb1,G430095G15Rik
A_51_P361204 Atp6v0d1,P39,Ac39,VATX,Vma6,Atp6d
A_51_P213390 Hist2h2aa2,H2a-614
A_51_P497365 NAP057135-1
A_51_P147292 V2r8
A_51_P246373 NAP057012-1
A_51_P403209 Pdzm3,LNX3,Semcap3,1110020C07Rik
A_51_P381209 Ngfb
A_51_P266888 Mup4,Mup-4
A_51_P285576 Olfr805,MOR110-4
A_51_P495719 4930527J03Rik
A_51_P479559 Butr1,BUTR-1
A_51_P353657 2810417H13Rik,Ns5apt9,Ns5atp9,MGC29306,mKIA
A_51_P404333 Sec5l1,Sec5,EXOC2,2410030I24Rik
A_51_P335242 Itgbl1,B930011D01Rik
A_51_P132150 E430034C17Rik
A_51_P177992 G630014P10Rik
A_51_P262470 Xlr5
A_51_P292630 Upp2,UP2,UPASE2,UDRPASE2,1700124F02Rik
A_51_P488566 Asrgl1,ALP,ALP1,2410004D18Rik
A_51_P479570 Al840556
A_51_P282457 NP817962
A_51_P132140 NAP057040-1
A_51_P234507 4933439A12Rik,Hyal5
A_51_P304407 Nfib,6720429L07Rik
A_51_P436530 Ptk9,A6,twf1,twinfilin
A_51_P518758 Kcnab2,F5,l2rf5,Kcnb3
A_51_P330109 Senp7,mKIAA1707,2410152H17Rik,2810413I22Rik,
A_51_P350512 Bin1,ALP-1,Amphl,SH3P9,BRAMP-2
A_51_P228923 Cldn8
A_51_P300888 1700042O10Rik
A_51_P453367 A_51_P453367
A_51_P404304 Akap2,AKAP-KL,B230340M18Rik
A_51_P354925 Mthfd2,NMDMC
A_51_P206968 Mg29
A_51_P348702 BC019561,MGC28728,A230074A19Rik
A_51_P404373 Rohn,Arhn
A_51_P142480 A_51_P142480
A_51_P378387 Sec15l2,Sec15b,KIAA0919,mKIAA0919,4930569O11
A_51_P243724 Myl6,Myln,ESMLC,LC17A,LC17B,MLC1SM,MLC3SM
A_51_P350574 4731417B20Rik
A_51_P444953 A_51_P444953
A_51_P311896 Ptk2b,A6,PKB,PTK,CAKB,FAK2,PYK2,CADTK,Raftk
A_51_P279803 Esr2,ER[b],Estrb,ERbeta
A_51_P438155 Mapre2,EB1,EB2,RP1,D18Abb1e,C820009F03Rik
A_51_P197344 Eny2,DC6,Ey2,6720481I12,1810057B09Rik
A_51_P266869 A_51_P266869
A_51_P157834 Chst1,C6ST,Gst1,GST-1,KSGAL6ST,2610008E20Ri
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A_51_P219860 Dctn4,p62,1110001K06Rik,4930547K17Rik
A_51_P298476 Abcg8,Sterolin-2,sterolin 2,1300003C16Rik

A_51_P255233 Plac1,Epcs26,DXWsu72e
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A_51_P148785 1110034A24Rik,2810020C19Rik
A_51_P453393 Sec10I1,Gm76,EXOC5,SEC10,PRO1912
A_51_P438137 2310047I15Rik,mKIAA0542
A_51_P348743 Llg1h2,MGC27928,9130006H11Rik
A_51_P173563 Ahsa1,p38,MGC36589,MGC36618
A_51_P160901 Asb15,Asb-15,4930400E23Rik
A_51_P382173 BU946097
A_51_P304459 Srms,srm,A230069J08Rik
A_51_P512997 Entpd3,HB6,Cd39I3,NTPDase-3,6330566B20
A_51_P460804 D930023J12Rik
A_51_P371521 Tada2I,D030022J10Rik
A_51_P391954 2310032F03Rik
A_51_P320479 A_51_P320479
A_51_P360809 Wt1,Wt-1,D630046I19Rik
A_51_P125665 Gnl3I
A_51_P458568 Rpl24,Bst,0610008L05Rik
A_51_P288649 Ptk6,BRK,Sik,tk, Tksk
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A_51_P436588 1700003E16Rik
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A_51_P410021 0610009O03Rik,Tetran
A_51_P224046 Ppil6,2900084F20Rik
A_51_P180968 Zfp668,MGC40890,E130018B19Rik
A_51_P474285 Spag4I,SRG4,1700021O15Rik
A_51_P267392 Dom3z,NG6
A_51_P460865 Cd37,Tspan26
A_51_P364596 Zic2,Ku,HPE5
A_51_P315458 Mrps27,2610028H14Rik
A_51_P291377 Cntn2,Tax,TAG-1,D130012K04Rik
A_51_P464490 A_51_P464490
A_51_P145186 Mx1,Mx,Mx-1
A_51_P104051 NAP057109-1
A_51_P516925 5530601I19Rik
A_51_P268519 4930563B10Rik
A_51_P371598 Adam28,MDCL,Dtgn1,MDC-L,MDC-Lm,MDC-Ls,eMI
A_51_P240875 Olfr592,MOR32-13
A_51_P150132 Txnl4,Dim1,U5-15kD,U5-15kDa
A_51_P210701 Amot1
A_51_P409163 Arhgef12,Larg,mKIAA0382,2310014B11Rik
A_51_P293499 4922503E23Rik,MGC107182
A_51_P148724 1810055D05Rik
A_51_P461331 Cdh9
A_51_P234245 Apex2,ape2,C430040P13Rik
A_51_P371573 4930470P17Rik
A_51_P180995 3110073H01Rik
A_51_P234208 BQ877716

A_51_P268533 Ear2,liver,EAR-13,Rnase2
A_51_P375958 Spaca3,Lyc3,SLLP1,15 kDa,ALLP17,mSLLP1,1700C
A_51_P207292 Trip3,Myohd1
A_51_P316162 Alms1
A_51_P392837 Cyt1,C17,Gm147,4930443F05Rik
A_51_P211359 Olfr677,MOR32-11
A_51_P384805 Fes,FPS,c-fes
A_51_P409153 A930012M17
A_51_P452711 Kcnmb4,1700058G18Rik,2900045G12Rik
A_51_P171872 Abhd6,0610041D24Rik
A_51_P516955 A_51_P516955
A_51_P461398 Smarca1,Snf2l,5730494M04Rik
A_51_P462774 A_51_P462774
A_51_P311866 Adamts16,MGC37086
A_51_P224020 Tk1,Tk-1,Tk1a,Tk1b,D530002A18Rik
A_51_P224928 Elavl1,HUR,Hua,2410055N02Rik
A_51_P343276 Mia1,MIA,Cdrap,CD-RAP
A_51_P422342 Mapk8,JNK,JNK1,Prkm8,SAPK1
A_51_P256894 3322402L07Rik
A_51_P163108 Bdh,2310032J20Rik
A_51_P361158 Ap1m2,mu1B,[m]1B,D9Ert818e
A_51_P241375 Fxyd2,Atp1g1
A_51_P209584 Hcrtr1,Ox1r
A_51_P362879 Fbxo38,Moka,SP329,6030410I24Rik
A_51_P311844 Al595614
A_51_P402883 Pvr14,Prr4,1200017F15Rik
A_51_P437976 Agtr2
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A_51_P362828 TC977829
A_51_P224092 9830165K03Rik,Lip8
A_51_P402853 Al839739
A_51_P252414 Cope,Cope1,1110005D17Rik
A_51_P186483 C330011J12Rik,Gm199
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A_51_P362859 Rcl1,Rnac,RPCL1,2310040A02Rik
A_51_P492751 A_51_P492751
A_51_P422308 Recql5,Recq5b,Recql5b
A_51_P487874 Cyp4f16,2310021J05Rik
A_51_P329795 Alg1,HMT1,HMAT1,MGC18946
A_51_P479480 4732470K04Rik
A_51_P403352 C230078M14
A_51_P462719 Al840782
A_51_P343208 3110006E14Rik
A_51_P237760 H2-T23,37b,37c,Qa1,Qa-1,T18c,T23b,T23d,Qed-1,H
A_51_P166643 4931408A02Rik,1700092M14Rik
A_51_P509171 Cbpip,p29,mp29,D4Bwg1551e,1110018L13Rik
A_51_P186493 Ss18,Syt,Ssxt,D130059H17
A_51_P417855 BC012278,MGC18736
A_51_P362826 Nalp6,Pypaf5
A_51_P131182 Kcnh2,LQT,ERG1,Lqt2,M-erg,Merg1,merg1a,merg1t
A_51_P329778 Taok1,MGC29021,mKIAA1361,2810468K05Rik,D13

A_51_P507344 Slc5a12,D630015G19
A_51_P262739 Cbr1,CR,Cbr
A_51_P451264 LOC435957
A_51_P402818 Lmyc1,Lmyc-1,MGC102165
A_51_P423423 TC1059694
A_51_P507022 C630002B14Rik
A_51_P517216 Grb14
A_51_P112537 A_51_P112537
A_51_P329750 A_51_P329750
A_51_P423465 Cd109,GARP,9930012E15Rik
A_51_P373839 2010002N16Rik
A_51_P256816 A_51_P256816
A_51_P262759 Ccnd1,Cyl-1,PRAD1,bcl-1
A_51_P256811 Hectd1,MGC12070,A630086P08Rik
A_51_P394597 Zfp609,mKIAA0295,9830165N24
A_51_P451216 Chrdl1,CHL,CHL1,VOPT,Nrln1,BB139951
A_51_P444893 5930416I19Rik,2510047L19Rik
A_51_P132044 Mef2a,A430079H05Rik
A_51_P364649 Rnf32,Lmbr2,MGC107158,1700009J01Rik,2700025I
A_51_P353909 Hrh1,Bphs
A_51_P328094 Crb3,5730439B18
A_51_P463191 Cd79a,Iga,Ly54,mb-1,Ly-54,Ig-alpha
A_51_P329735 Csnk1g1,9130020E21Rik
A_51_P153173 Hrb,RAB,Rip,C130049H11Rik,D730048C23Rik
A_51_P162637 Boc,4732455C11
A_51_P246604 Zfp46,Zfp-46
A_51_P414885 Ifi35,IFP35,2010008K16Rik
A_51_P186405 Mup5
A_51_P112500 A_51_P112500
A_51_P333146 Fos,c-fos,D12Rfj1
A_51_P348492 Sat1,Sat,SSAT
A_51_P518666 Sec22I2,SEC22A,1810005C06Rik
A_51_P330016 Dkk3
A_51_P353925 BB114266,C330026E23
A_51_P364628 Sh3bp2,3BP2
A_51_P252489 Asxl1,mKIAA0978
A_51_P296764 Fcgr1,CD64,IGGHAFc,FcgammaRI
A_51_P350419 Shh,Dsh,Hhg1,9530036O11Rik
A_51_P353938 Nkx2-4,tinman,Nkx-2.4,1700001P03Rik
A_51_P423494 1700024G10Rik
A_51_P153166 Dia1,Dia-1,0610016L08Rik,2500002N19Rik
A_51_P354802 Caskin2,mKIAA1139
A_51_P394504 D1Ertd83e
A_51_P464751 Slamf1,Slam,CD150,IPO-3,CDw150,ESTM51,49334
A_51_P375670 Tcea2,Tceat,SII-T1
A_51_P507043 Bhlhb5,Beta3
A_51_P488598 Atf1
A_51_P318640 Rps3,Rs_3,D7Ertd795e
A_51_P197433 Reg4,GISP,RELP,2010002L15Rik
A_51_P364638 Krt2-6g,Ca,Cu,mK6irs,mK6irs1
A_51_P488098 Tcte1,Tcte-1,D17Sil1
A_51_P404644 Ldlrap1,Arh,ARH2,Arh1,FHCB1,FHCB2

A_51_P246693 Git2,KIAA0148,mKIAA0148,1500036H07Rik,583042
A_51_P146956 Dscr6
A_51_P207350 Map3k11,Mlk3,PTK1,SPRK,2610017K16Rik
A_51_P304571 A530023O14Rik
A_51_P166682 Pik3ca,p110,caPI3K,6330412C24Rik
A_51_P517245 Thada,GITA,6530405K19,A930021O22
A_51_P329704 Kcnh3,Elk2,Mek2,C030044P22Rik
A_51_P404623 Prkaca,Cs,PKA,Pkaca
A_51_P511930 Epn1,lbp1
A_51_P479806 Fbxo11
A_51_P318678 Asz1,Gasz,ORF3,4933400N19Rik
A_51_P438235 4921520P21Rik,1700030H14Rik
A_51_P207332 Tgm6,TGY,TGM3L,A030011P16
A_51_P246684 Dolpp1,LSFR2,0610011H20Rik
A_51_P197471 2700049P18Rik
A_51_P197474 9130227C08Rik,mKIAA0323,6330555F21,2310014C
A_51_P359480 Zfp422-rs1,Krox-25-2,A430003O12Rik,C430039G02
A_51_P410462 Cyp2d9,Cyp2d,P450-2D
A_51_P348411 Al844685
A_51_P517267 Zcwpw2,4930430K04Rik
A_51_P169651 2810006K23Rik
A_51_P129826 Ccne2
A_51_P375618 NAP057080-1
A_51_P435638 Tcf7,Tcf1,TCF-1
A_51_P169624 Taf3,140kDa,TAF140,TAFII140,mTAFII140,4933439
A_51_P303476 A_51_P303476
A_51_P318620 Sh3gl2,SH3PA,EEN-B1,Sh3d2a,9530001L19Rik,B93
A_51_P350495 Ccdc9,2600011L02Rik
A_51_P133811 Lats1
A_51_P197457 Rhbdf1,Dist1,C16ORF8,Egfr-rs,KIAA4242,mKIAA424
A_51_P477237 Olfr780,MOR114-12
A_51_P479848 Sec61a1,Sec61a
A_51_P315111 Ddx21,D10Wsu42e,D10Ertd645e
A_51_P210077 Smu1,BWD,SMU-1,2600001O03Rik,2610203K23Rik
A_51_P411709 Mitc1,SMIF,D14Ertd817e,1110066A22Rik,4930568L
A_51_P256617 2010003O18Rik
A_51_P477205 BB081391,KIAA1971,MGC51670,MGC58752,mKIAA
A_51_P174336 Rps5
A_51_P406514 Rapgef1,C3G,Grf2,4932418O06Rik
A_51_P448073 4933400A11Rik
A_51_P404687 A_51_P404687
A_51_P138971 Siva,CD27bp
A_51_P516819 A_51_P516819
A_51_P458249 Clec4e,Mincle,Clecsf9
A_51_P153190 Lzf,0610011C19Rik
A_51_P169662 Tbx15,de,Tbx8,Tbx14
A_51_P278286 Traf6,2310003F17Rik,C630032O20Rik
A_51_P512489 Olfr1272,MOR227-3
A_51_P298939 2210417J20Rik
A_51_P507130 1110049F12Rik,Trp26
A_51_P496488 Rpl7,Rpl7a,Surf-3,MGC102113
A_51_P224752 4732466D17Rik

A_51_P339003 A_51_P339003
A_51_P298902 NAP057216-1
A_51_P224705 AU017382
A_51_P359402 Gnat2,Gnat-2,Tcalpha
A_51_P323500 2610036D13Rik
A_51_P472138 A_51_P472138
A_51_P339074 Slc24a1,MGC27617
A_51_P359445 Trim42,4930486B16Rik
A_51_P150087 Abhd10,D630018L06,D230019K24Rik
A_51_P432858 AU021384
A_51_P278243 ENSMUST00000064114
A_51_P148032 G431001E03Rik
A_51_P381091 ENSMUST00000058043
A_51_P213575 Nlgn1,BB179718,mKIAA1070,6330415N05Rik
A_51_P432877 2010008E23Rik
A_51_P507128 Mccc2,MCCB,4930552N12Rik
A_51_P138990 Rgs11
A_51_P200296 Grpr,GRP-R
A_51_P442209 4933417L02Rik,4931426M20
A_51_P322232 Bcr
A_51_P118605 Cdh5,7B4,VEC,CD144,VE-Cad
A_51_P477282 1810014B01Rik
A_51_P224748 Pkdrej
A_51_P148013 Arpp21,Tarpp,ARPP-21,D9Bwg1012e
A_51_P221400 Copg2as2,Lb9,Mit1
A_51_P492895 493343017Rik,bN189G18.7
A_51_P345337 2310043J07Rik
A_51_P285357 Dlx3,Dlx-3
A_51_P494505 Kif5c,KINN,NKHC,NKHC2,NKHC-2,mKIAA0531
A_51_P486610 Afg3l1,1700047G05Rik,3110061K15Rik
A_51_P487930 Psmc7,Mov34,Mov-34
A_51_P138521 Hcph,me,hcp,PTPN6,Ptp1C,SHP-1,motheaten
A_51_P452069 Olfr902,MOR169-1
A_51_P131277 4932702D22Rik
A_51_P322250 4921513B05Rik
A_51_P472148 Rnase1,Rib1,Rib-1
A_51_P339069 A_51_P339069
A_51_P119965 Pstpip2,MAYP
A_51_P403044 A230048G03Rik,KIAA1414,MGC77977,2010013B10
A_51_P442264 Vps52,ARE1,Sacm2l,D130068D18,D430041K17Rik
A_51_P131261 TC976821
A_51_P423527 Amph,MGC49429
A_51_P451546 Eppk1,EPIPL,EPIPL1,6230424I18Rik
A_51_P497123 XM_134604
A_51_P252154 2900010D03Rik,mKIAA1185
A_51_P285300 Cryba4
A_51_P166741 Kcnj4,IRK3,Kcnf2,MB-IRK3
A_51_P119942 Kcnk1,TWIK-1
A_51_P432823 Pip5k1b,Pipk5b
A_51_P262245 E130307J04Rik,RIC3
A_51_P282695 A_51_P282695
A_51_P159009 ENSMUST00000064888

A_51_P487974 E430012K20Rik,KIAA1223,mKIAA1223,mKIAA3019
A_51_P497104 Lgals4,galectin-4
A_51_P309978 BC020002,MGC25527
A_51_P285321 6720463M24Rik
A_51_P166722 Pou2f2,Otf2,Oct-2,Oct2a,Oct2b,Otf-2
A_51_P112441 A_51_P112441
A_51_P285328 A830043J08Rik
A_51_P423513 2310003H01Rik
A_51_P472183 Trpm6,TRPM6/CHAK2
A_51_P112407 Plaur,Cd87,uPAR,u-PAR
A_51_P381000 Olfr557,MOR18-3
A_51_P272026 Rnf186,9130020G10Rik
A_51_P262265 Ppyr1,Y4,Npy4r,NYYR-D
A_51_P427905 Sumo2,Smt3b,SUMO-2,Smt3h2
A_51_P252107 Nudcd3,mKIAA1068
A_51_P246568 Tm7sf2,ANG1,3110041O18Rik
A_51_P142209 1600029O15Rik
A_51_P470499 D16Bwg1547e,5830465I20
A_51_P510152 Lcn2,24p3,NGAL
A_51_P345346 Dppa5,Esg1
A_51_P185842 Dnal4,Dnal4,D15Ert424e
A_51_P364778 U2af1,35kDa,2010107D16Rik
A_51_P517753 Madcam1,MGC35998
A_51_P350367 Cdad1,NYD-SP15,2310010M10Rik
A_51_P221485 Catsper3,CACRC,MGC107210,4921522D01Rik
A_51_P518117 Pacs1,MGC37046
A_51_P252127 NAP057276-1
A_51_P285864 4930503E14Rik
A_51_P381071 Chrna9,Acra9,2410015I05Rik
A_51_P186538 Tbrg1,TB-5
A_51_P150658 Ptpv,Esp,mOST-PTP
A_51_P451529 Plce1,Plce,mKIAA1516,4933403A21Rik
A_51_P403013 Igh-4,IgG1
A_51_P282663 Hexa,Hex-1
A_51_P507331 Kcnc2,Kv3.2,KShIIIA,B230117I07
A_51_P488041 Stk16,EDPK,Krct,PKL12
A_51_P203671 Trem3
A_51_P173718 D0H6S2654E,X5L,XAP-5-like
A_51_P350317 TC961331
A_51_P185863 Hbq1,Gm876,A230090E05Rik
A_51_P423593 Dok3,Dokl
A_51_P333289 Trim23,Arfd1,6330516O20Rik
A_51_P381040 Dio3
A_51_P381047 Ube2m,UBC12,Ubc-rs2,MGC25453,MGC37197
A_51_P145310 Tbx2
A_51_P474034 1700123J19Rik
A_51_P255004 9430022A14
A_51_P173723 B430119L13Rik
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A_51_P488068 NAP112901-1
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A_51_P318590 Scn5a,SkM1,Nav1.5,Nav1.5c
A_51_P466312 Hsd3b6
A_51_P132388 Akt3,D930002M15Rik
A_51_P125425 Dph2l1,Ovca1,2310011M22Rik,4930488F09Rik
A_51_P436717 Snrp116,116kDa,U5-116kD
A_51_P410129 D630042F21Rik
A_51_P394415 Spt1,Spt-1,MGC29130
A_51_P410122 Taf11,28kDa,TAF2l,PRO214,TAFII28,1110038O14R
A_51_P153201 V1rb1,VN2,V1RA5
A_51_P433961 Sgcb,43kDa,beta-SG
A_51_P142299 Flrt3,mKIAA1469,5530600M07Rik,C430047110Rik
A_51_P210570 Zbtb7a,Lrf,FBI-1,Zbtb7,Pokemon,9030619K07Rik,91
A_51_P105949 4930404J24Rik,1110065L10Rik,2310004B22Rik
A_51_P121827 Pscd2,CLM2
A_51_P174221 Odf2,MMTEST29
A_51_P268797 V1ri7
A_51_P458748 Hmnr,CD168,Rhamm,AA386826
A_51_P105977 Syngn2,Clast2,cellugyrin
A_51_P288469 BU591575
A_51_P433913 4930524N10Rik
A_51_P318525 Aox3,AOH1,Aoh2,1200011D03Rik
A_51_P181460 C1qa,C1q
A_51_P490850 AW125646
A_51_P498291 AW125753,Nse1,2310003N02Rik,4731402F03Rik
A_51_P348519 1500005I02Rik
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A_51_P181474 Glycam1,Sgp50
A_51_P464238 Atf4,Atf-4,C/ATF,CREB2,MGC96460,TAXREB67
A_51_P181428 Olfr807,MOR117-1
A_51_P105962 Klhl17
A_51_P224275 ENSMUST00000052693
A_51_P315234 Cdkn2b,p15,MTS2,INK4b,p15(INK4b),p15(INK4b)
A_51_P197102 BB114266
A_51_P115891 2310057M21Rik
A_51_P173795 Pamci,MGC41694
A_51_P105943 2610203E10Rik,Phacs,MGC48140
A_51_P461141 Pdlim1,Clim1
A_51_P371743 Havcr1,Tim1,Timd1
A_51_P521346 NAP030017-1
A_51_P210532 NAP010118-002
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A_51_P288428 Gsk3b,GSK3,GSK-3,GSK-3beta,7330414F15Rik,843
A_51_P328159 Baiap2l2,MGC56984
A_51_P354983 NAP057049-1
A_51_P303353 Dnaja1,Hsj2,Nedd7
A_51_P410187 4632415L05Rik
A_51_P481481 1200002N14Rik
A_51_P316373 Gpr146,PGR8,MGC7035

A_51_P489069 Slc29a4,ENT4,MGC38048
A_51_P521364 Emx2,Pdo
A_51_P174284 A_51_P174284
A_51_P359132 Doc2g,D830013O18Rik
A_51_P339545 Clk4
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A_51_P486183 NAP057193-1
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A_51_P385958 Sidt2,CGI-40,MGC36407,MGC58967,B930096O19
A_51_P288400 Kpnb1,IPOB,Impnb
A_51_P233988 1110030O19Rik
A_51_P417096 Xpa,Xpac
A_51_P492535 Rnf36,Trif,Trimless,4921519C19Rik
A_51_P131744 Gm78,C030033F14Rik
A_51_P409301 Olfr1006,MOR213-4
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A_51_P449873 Nyx,nob,CLNP,CSNB1,CSNB4,MGC38926
A_51_P148102 Rad51,Reca,Rad51a
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A_51_P221552 Cct6a,Cct6,Cctz-1
A_51_P452528 D1Ert471e,2810478N18Rik,3110063L10Rik
A_51_P115248 Rif1,D2Ert471e,5730435J01Rik,6530403D07Rik
A_51_P514958 Tiparp,DDF1,PARP7,PARP-7
A_51_P269873 Ush1c,harmonin,2010016F01Rik
A_51_P490899 A_51_P490899
A_51_P185765 Tscot,Ly110,TSO-1C12,5430429N04Rik
A_51_P115234 V1rg9
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A_51_P285056 Tollip,4930403G24Rik,4931428G15Rik
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A_51_P269809 Rbpsuh,CBF1,RBP-J,RBPjk,Igkjrj,Igkrspb
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A_51_P186294 Klra17,Ly49q,Ly-49Q,Ly49q1
A_51_P491401 A230109K23Rik
A_51_P142363 Pou3f-rs1
A_51_P237546 2810039F03Rik,MGC107224,6430408C01
A_51_P115205 Pcdha1,CNR,MGC90628
A_51_P431023 Ubash3a,Sts-2,C330001M22,5830413C03Rik
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A_51_P302196 Cry1,Phl1
A_51_P486240 Clec3b,Tna

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A_51_P518048 Dusp4,2700078F24Rik,E130306H24Rik
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A_51_P463379 Eln,E030024M20Rik
A_51_P237590 D330012D11Rik,Btn3,B430208I01
A_51_P242425 BC032204,MGC36836,MGC38286
A_51_P403137 Cacna1d,Cchl1a,D-LTCC,Cchl1a2,Cacnl1a2,843041
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A_51_P186273 C030048B08Rik
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A_51_P305858 Cd38,Cd38-rs1
A_51_P364890 Ncoa6ip,Pimt,D4Ert800e
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A_51_P109098 Cited4,Mrg2
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A_51_P367578 Falz,MGC54978,9430093H17Rik
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A_51_P166824 Aldh1a2,Raldh1,Raldh2,Aldh1a7,RALDH-2
A_51_P328285 Kcnj1,ROMK,Romk2,ROMK-2
A_51_P434347 B230220E17Rik
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A_51_P173426 Tra1,gp96,ERp99,GRP94,Tra-1
A_51_P296129 Sema5a,semF,Semaf,5930434A13,9130201M22Rik
A_51_P423668 4632419K20Rik
A_51_P336378 NAP057284-1
A_51_P312112 Cd226,Pta1,DNAM1,DNAM-1,TLISA1
A_51_P453071 Rab27b,2310021G14Rik
A_51_P517060 Scn7a,NaG,Nax,Nav2,Scn6a,Nav2.3,1110034K09Ri
A_51_P442290 Dnajc12,Jdp1,mJDP1
A_51_P391829 Exosc10,p2,p3,p4,RRP6,PM-ScI,Pmscl2,PM/ScI-100
A_51_P125727 Sh3gl3,EEN-B2,SH3P13,Sh3d2c,Sh3d2c2
A_51_P453047 Grik2,Glur6,Glur-6
A_51_P234404 Tjp3,ZO-3

A_51_P197277 Olfr393,MOR135-7
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A_51_P318427 Cpvl,HVLP,4933436L16Rik
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A_51_P267617 Gjb2,Cx26,Cnx26,Gjb-2
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A_51_P407103 Tcrg-C,MGC6230
A_51_P410687 lrx5
A_51_P452651 Brd4,Brd5,MCAP,HUNK1,WI-11513
A_51_P148272 Acox1,1200014P05Rik
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A_51_P330379 LOC243881
A_51_P157403 Ptgs,PGD2,PGDS,21kDa,PGDS2,Ptgs3,L-PGDS
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A_51_P147996 Lnpep,CAP,IRAP,PLAP,gp160,vp165,4732490P18R
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A_51_P233474 Usf1
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A_51_P120017 Pde2a,MGC102210
A_51_P450846 AI853829
A_51_P449986 C6
A_51_P213765 lhpk1,InsP6,ltpk6,1200016D08Rik

A_51_P185248 Gdf10
A_51_P269947 Sox2,Sox-2
A_51_P148253 Mrpl17,Rpml26,MRP-L26
A_51_P339273 Hnrpr,hnRNPR,2610003J05Rik
A_51_P375823 2700059D21Rik,MGC90611
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A_51_P120048 Taok1,MGC29021,mKIAA1361,2810468K05Rik,D13
A_51_P376139 Bucs1,Macs,Acas3
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A_51_P391885 Ppt2,0610007M19Rik
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A_51_P221660 Smarca5,Snf2h,4933427E24Rik,D330027N15Rik
A_51_P269960 BC040823,9430078B04
A_51_P472310 Spatc1,speriolin,1700084J23Rik
A_51_P415145 Atp6v0a2,Tj6,Stv1,TJ6M,TJ6s,ATP6a2,Atp6n2,Atp6r
A_51_P131018 Trim44,Mc7,Dipb,4930467E23Rik
A_51_P512290 Aurkc,AIE1,AIK3,Stk13
A_51_P486488 A530017D24Rik
A_51_P376158 Rps23,2410044J15Rik
A_51_P452601 Ppp2r5a,MGC38798,PR61alpha
A_51_P269979 Slc22a19,Oat5,OAT-5,MGC29260,D630043A20Rik
A_51_P452607 4930546H06Rik,B230206P06Rik
A_51_P472369 Ttc17
A_51_P296694 Eno1,Eno-1,MBP-1,MGC103111,MGC107267,0610C
A_51_P268218 Slc23a2,NBTL1,SVCT2,YSPL2,Slc23a1,mKIAA0238
A_51_P131008 Hcn1,HAC2,Bcng1
A_51_P233894 Arhgdib,D4,Gdid4,Ly-GDI
A_51_P148216 B3galt2
A_51_P316239 ENSMUST00000060601
A_51_P296682 Opn3,ERO,Ecpn
A_51_P442056 Ptdss1,PSS-1
A_51_P221632 1700037H04Rik
A_51_P147973 C76856
A_51_P286484 C85504
A_51_P402939 A_51_P402939
A_51_P430314 4932411G06Rik,MGC100177,NY-SAR-41,1700021E
A_51_P302275 Dub1
A_51_P103259 Slc17a1,Npt1,NAPI-1
A_51_P477618 C87436,MGC25529
A_51_P150042 Rps6ka1,rsk,Rsk1,p90rsk
A_51_P322041 Ablim2,C230091L11
A_51_P333077 D10Ertd641e,2310005G07Rik
A_51_P478748 Dmrta1,Dmrt4

A_51_P500884 Ncr1,Ly94,NKp46
A_51_P159213 TC986737
A_51_P131093 AW554572
A_51_P233801 Adh7,Adh3,Adh4,Adh-3,Adt-1,Adh-3e,Adh-3t,Adh3-e
A_51_P155190 Fmo1
A_51_P451774 XM_354925
A_51_P142071 Fpr-rs4
A_51_P342810 Dhx34,Ddx34,mKIAA0134,1200013B07Rik,1810012I
A_51_P166990 Creb5,D430026C09Rik
A_51_P246724 AW228700,Mir,Mondoa,mKIAA0867
A_51_P423732 4930422J18Rik,SSB1,SSB-1,MGC102221,1110014L
A_51_P340929 4932408B21Rik
A_51_P491715 Nfe2l1,NRF1,Lcrf1,TCF11,LCR-F1,TCF-11
A_51_P159203 Pld1,Plid1a,Plid1b
A_51_P103287 BC050188,4933403D14
A_51_P206048 Kif24,4933425J19Rik,9430029L23Rik
A_51_P330548 Mafg,C630022N07Rik
A_51_P350155 Il18bp,MC54L,Igfbp,IL-18BP
A_51_P491747 Ddr2,Ntrkr3,tyro10
A_51_P488248 Bves,Pop1,Popdc1
A_51_P255648 Olfr1065,MOR190-1
A_51_P142010 2310011J03Rik
A_51_P286410 Ubap2,mKIAA1491,1190005K07Rik
A_51_P500847 Prss32,mT5,tryptase-5,2010001P08Rik
A_51_P345186 Setdb1,ESET,MGC90670,mKIAA0067
A_51_P186327 Trnt1,CGI-47,mt-Trat,2410043H24Rik,2610044E04R
A_51_P285691 Lin9,TGS,Bara,TGS1,2700022J23Rik
A_51_P313188 Fbf1,mKIAA1863,5930413D20,1110033G01Rik
A_51_P444986 Olfr635,MOR5-2
A_51_P353806 Gsr,Gr1,Gr-1,D8ErtD238e
A_51_P340936 BC006909,MGC6888
A_51_P380950 9530090G24Rik
A_51_P467029 ENSMUST00000059293
A_51_P125275 Bmp6,Vgr1,Vgr-1,D13Wsu115e
A_51_P360531 Pcdha3,mKIAA0345
A_51_P145510 Prlpm,PLP-M
A_51_P330574 Tnp01,MIP,TRN,IPO2,MIP1,Kpnb2,D13ErtD688e
A_51_P353213 Thbs4,TSP-4
A_51_P157805 4921526K24Rik,1700055A14Rik,1700086E08Rik
A_51_P142080 Atp6v0a1,Vpp1,Vpp-1,ATP6a1,Atp6n1,Atp6n1a,Atpv
A_51_P417646 Arrdc2,Ilad1,4632416I05Rik
A_51_P255612 Snrpf,SMF,2010013O18Rik
A_51_P511861 Hpse,Hpa,HSE1,Hpr1
A_51_P298890 NAP057204-1
A_51_P353202 NAP057245-1
A_51_P404729 Sox21,Sox25
A_51_P328329 Ccnf,CycF
A_51_P380416 BU962331
A_51_P181676 Itga7,[a]7,alpha7
A_51_P173109 1810046K07Rik
A_51_P181670 A_51_P181670
A_51_P125265 Gata3,Gata-3

A_51_P394207 Fap
A_51_P169750 Tuba1,Tuba-1,MGC102097,MGC102098,MGC102099
A_51_P303543 A_51_P303543
A_51_P507181 4930557K07Rik
A_51_P246783 Qtrtd1,MGC102598,3110012M05Rik,4930470H18Rik
A_51_P500862 Plekha5,Pepp2,MGC38455,2810431N21Rik
A_51_P512120 AF067063,clone L2,clone L5
A_51_P360571 NAP004919-001
A_51_P169730 Hba-a1,Hba1
A_51_P371151 Sos2
A_51_P250986 4933421B21Rik
A_51_P393136 Zfp324,ZF5128,A930002M05,D430030K24Rik
A_51_P339796 Il1rl1,T1,St2,DER4,Ly84,ST2L,Fit-1,T1/ST2,St2-rs1
A_51_P157982 3321401G04Rik,A230020K05Rik
A_51_P170264 Krtap6-1,HGTpII.1,HGTpII.2,1110025L11Rik
A_51_P108800 Plxna4,KIAA1550,mKIAA1550,9330117B14
A_51_P148388 Copg,Copg1,D6Wsu16e,MGC66965,D6Ertd71e
A_51_P145594 1700024B05Rik
A_51_P444927 Otx1,jv,A730044F23Rik
A_51_P461758 Zcchc8,5730565F05Rik
A_51_P181615 Gpr64,Me6,B830041D06Rik
A_51_P366079 Olfr1058,MOR190-2
A_51_P405013 9630007J19Rik
A_51_P227946 Lrch1,Chdc1,mKIAA1016,4832412D13Rik
A_51_P315041 Avpr1a,V1a,AVPR,V1aR,Avpr1
A_51_P511820 2610042L04Rik
A_51_P405006 Taf7l,50kDa,Taf2q,4933438I11Rik
A_51_P360590 XM_357408
A_51_P159928 Olfr1097,MOR206-2
A_51_P143459 1810060K07
A_51_P120115 Rfwd3,MGC27888
A_51_P410381 9130218O11Rik
A_51_P200309 Osbp15,ORP5,Obph1,Osbp2,1110006M06Rik
A_51_P185181 Atm
A_51_P407669 U2af1-rs1,SP2,35kDa,Irlgs2,D11Ncvs75,U2afbp-rs
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A_51_P173182 Negr1,Ntra,KILON,mKIAA3001,5330422G01Rik
A_51_P453498 Smn1,Smn,Gemin1
A_51_P399563 Cd33,gp67,Siglec-3
A_51_P330589 5430435G22Rik
A_51_P274006 Fbxl5,Fbl4,Fir4
A_51_P108850 Lyplal1,Q96AVO,MGC28394
A_51_P405074 4930447F04Rik
A_51_P214745 Zc3hdc1,PARP12,PARP-12,9930021O16
A_51_P174056 Hnrpc,Hnrnpc,Hnrpc1,Hnrpc2,hnRNPC1,hnRNPC2,hnRNPC3
A_51_P285679 NAP108510-1
A_51_P500814 Lgals9,galectin-9
A_51_P339761 Cbx7,D15Ertd417e,1600014J01Rik
A_51_P185156 Tnks1bp1,TAB182,mKIAA1741
A_51_P274073 A830039N20Rik
A_51_P200397 Dap,MGC6998,MGC19154,4921531N22Rik
A_51_P472009 4933428D01Rik

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A_51_P322109 9130017A15Rik,TA-PP2C
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A_51_P399518 4933439F11Rik
A_51_P415016 NAP057052-1
A_51_P486715 Fxn,FA,X25,FARR,Frda
A_51_P327288 Extl2,3000001D04Rik
A_51_P213651 Cchcr1,Hcr,MGC28303
A_51_P303583 A_51_P303583
A_51_P417691 AU042636
A_51_P327290 Akr1a4,Akr1a1,2610201A18Rik
A_51_P298846 Pcbd2,Dcoh2,Dcohm,2700061N24Rik
A_51_P442303 E2f6,EMA,E2F6b
A_51_P214786 Slc15a1,PECT1,PEPT1,D630032F02
A_51_P194212 Gpr175,40kDa,Tpra40
A_51_P274086 Ppp1r15b,CReP,1810033K10Rik,C530022L24Rik
A_51_P200364 1810013L24Rik,1110017P05Rik,3010002C02Rik
A_51_P309283 Sema3b,SemaA,Semaa,sema5,semaV,LUCA-1
A_51_P145076 Znrf1,Rnf42,Zrfp1,nin283,MGC101991,B830022L21F
A_51_P229715 Dhx33,Ddx33,3110057P17Rik,9430096J02Rik
A_51_P176262 Trip11,AI450776,2610511G22Rik,3110031G15Rik,6
A_51_P142164 Stch,1600002I10Rik,B230217N24Rik
A_51_P221755 Klk9,mGk-9,Egfbp3,Klk1b9,Egfbp-3
A_51_P110671 Mst1r,Fv2,Ron,STK,Fv-2,PTK8,CDw136
A_51_P345467 Pi4k2a,Pi4k2,MGC37783
A_51_P237303 Plekhg1,mKIAA1209,D10Erttd733e
A_51_P345477 TC947615
A_51_P131520 Ppm1d,Wip1
A_51_P456756 BC004636,MGC7995,MGC67805
A_51_P342951 Trp53bp1,53BP1,m53BP1,MGC100303
A_51_P423079 Cyp2j11
A_51_P248825 1520402A15
A_51_P322182 D9Erttd280e,KIAA4186,mKIAA4186,D930024E11
A_51_P451649 Card12
A_51_P520649 Dlgap1,Gkap,Sapap1,KIAA4162,mKIAA4162,96300C
A_51_P221730 Mel13
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A_51_P127508 4933417K05Rik
A_51_P377974 1110032A04Rik,ADMP
A_51_P188605 BC061259,9930124N15
A_51_P142100 Fzd7,Fz7
A_51_P423041 Slc10a3,P3,DXS253Eh,DXSmhG28,MGC36271,MG
A_51_P507546 Prkar2b,Pkarb2,RII(beta)
A_51_P381122 Mcpt7,Mcp-7,MMCP-7
A_51_P246312 Ankrd27,Varp,MGC25907,D330003H11Rik
A_51_P296379 Cxcl11,IP9,H174,ITAC,b-R1,CXC11,I-TAC,SCYB9B,

A_51_P345416 Lyn,Hck-2
A_51_P252013 Brf1,GTF3B,TAF3C,TAFIII90,TFIIIB90,2510002F24F
A_51_P282765 4933425L03Rik,Nag
A_51_P282754 Per2,mPer2,mKIAA0347
A_51_P304162 Serac1,4930511N22Rik
A_51_P262368 A_51_P262368
A_51_P451634 5031410I06Rik
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A_51_P252002 Susd4,MGC30368,E430021N18Rik
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A_51_P507461 A_51_P507461
A_51_P333517 Sh3rf2,RNF158,2310046K19,9130023G24Rik
A_51_P518219 A930040G15Rik
A_51_P176291 Fkbp9,FKBP60,FKBP63,1810014L23
A_51_P309238 1700001D09Rik,4930578J19Rik
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A_51_P247121 H2-BI,H2-B1
A_51_P394149 Cdc2l5,2310015O17Rik
A_51_P488108 Iglk-C
A_51_P360615 Nptx1,Np1,D11Bwg1004e
A_51_P122751 Igh-4,IgG1
A_51_P336171 Mcp,CD46
A_51_P141410 Mgl1,Mgl
A_51_P255545 Tnfsf13,APRIL,TALL2,TRDL1,2310026N09Rik
A_51_P309220 C80913,Rmp,NNX3
A_51_P378978 Crabp1,Rbp-5,Crabpl,Crabp-1
A_51_P330418 Wdr5b,2310009C03Rik
A_51_P434144 1110006G24Rik
A_51_P434147 Csprs,HSR,D1Lub1
A_51_P137448 Cyp2g1
A_51_P448488 Mea1,Mea-1
A_51_P360646 Nr4a2,NOT,HZF-3,Nurr1,RNR-1,TINOR,TINUR
A_51_P183668 Tmem30b,9130011B11Rik
A_51_P142187 Wbscr21,1110054D16Rik,A630008N09Rik
A_51_P488129 Timp2,Timp-2,D11Bwg1104e
A_51_P185902 Abi3,NESH,2210414K06Rik
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A_51_P333307 Cdan1,CDA1,CDAI,CDA-I,1500015A01Rik
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A_51_P242695 ENSMUST00000070183
A_51_P375870 Snph,mKIAA0374,6430515A01
A_51_P206743 Defcr-rs1,CRS1C-2,2010300L12Rik,2010319H24Rik
A_51_P247153 Hn1
A_51_P210470 Mrpl18,HSPC071,MRP-L18,1010001C05Rik

A_51_P366132 unknown
A_51_P348020 Mvp,LRP,VAULT1,2310009M24Rik
A_51_P394107 Defb35
A_51_P234624 Nubpl,2410170E07Rik
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A_51_P355311 Itgb1bp2,Chordc3
A_51_P304111 Cyp2c39
A_51_P328442 Zfp423,Roaz,Ebfaz,Zfp104,mKIAA0760
A_51_P333588 A_51_P333588
A_51_P121975 BC025575
A_51_P437045 Cldn2
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A_51_P307401 Ccl12,MCP-5,Scya12
A_51_P359071 LOC381763
A_51_P437016 2310001H13Rik
A_51_P247180 4921521J11Rik
A_51_P428032 Neu1,G9,Apl,Aglp,Bat7,Bat-7,Map-2,Neu-1
A_51_P288567 1700096K18Rik
A_51_P279785 Kpna3,IPOA4
A_51_P512000 Rer1,1110060F11Rik,5830454N22Rik
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A_51_P169275 Hspa5bp1,6720481D13Rik
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A_51_P121955 Lphn3,LEC3,CIRL-3,MGC99439,mKIAA0768,54304C
A_51_P304045 C030032C09Rik
A_51_P405147 Dleu7,MGC47306
A_51_P210433 Olfr203,MOR182-5
A_51_P219338 Gucy2g,2410077I05Rik
A_51_P122784 NAP057008-1
A_51_P274576 E130307C13
A_51_P327570 1700066C05Rik
A_51_P170168 Ttn,mdm,shru,1100001C23Rik,2310036G12Rik,231C
A_51_P400695 Rsnl2,1700024K14Rik,1700074B05Rik,4833417L20I
A_51_P313862 NAP108668-1
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A_51_P355399 A630042L21Rik,mKIAA0194,2510002C16Rik
A_51_P174736 Hrb2,D10ErtD773e,2610511F02Rik
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A_51_P517318 1700111I05Rik,Wbscr28
A_51_P174728 Cd86,B7,B70,MB7,B7-2,CLS1,Ly58,Ly-58,Cd28I2,TS
A_51_P109268 V1rf5
A_51_P453680 Prkcbp1,RACK7,ZMYND8,MGC25852,mKIAA1125,1
A_51_P327559 Glb1,Bge,Bgl,Bgs,Bgt,Bgl-e,Bgl-s,Bgl-t
A_51_P517697 Ly6f
A_51_P323930 Pygo2,1190004M21Rik
A_51_P274513 NAP057290-1
A_51_P108910 Sox6
A_51_P134989 a
A_51_P288523 0610010K06Rik
A_51_P288527 AW476689
A_51_P492437 Popdc3,Pop3
A_51_P200603 1700008I05Rik

A_51_P200604 Zbtb12,G10,Bat9,NG35,Bat-9
A_51_P290538 Spo11
A_51_P305889 Cftr,Abcc7
A_51_P517332 Clasp1,mCLASP1,mKIAA0622,1700030C23Rik,573C
A_51_P339444 Rab9,Sid6061p,2410064E05Rik
A_51_P496966 Crx
A_51_P258711 4930415O20Rik
A_51_P288509 Cbara1,CALC,MGC29229,MGC36365,MGC36503,M
A_51_P423088 Flot1
A_51_P307470 Pop7,Rpp20,0610037N12Rik
A_51_P258748 Prlpi,PLP-J,Prtpj,decidualin
A_51_P520703 TC1034191
A_51_P452446 NAP057263-1
A_51_P517375 Lass2,TRH3,0610013I17Rik
A_51_P442645 Igsf4d,NECL3,Igdf4d,9330131D06,A830029E02Rik
A_51_P319985 Neil3,MGC27861,MGC36916
A_51_P143990 Blk
A_51_P323903 NAP029668-1
A_51_P371600 2310057J18Rik,2210414P04Rik
A_51_P222407 2610015P09Rik,8430422M09Rik
A_51_P327592 Gnaq,Gq,Dsk1,Dsk10,Galphaq,1110005L02Rik,623C
A_51_P183891 Fbxo15,Fbx15
A_51_P258765 Smo,bnb,Smoh,D13Mgi8,E130215L21Rik
A_51_P477066 Tob2,mKIAA1663,2900090N22Rik,4930545K18Rik
A_51_P179918 Ces5,9030624L02Rik
A_51_P225409 Apg9l1,MGC105176
A_51_P345758 Psmb6,Mpnd,Lmp19
A_51_P492476 Cstf2t,64kDa,tCstF-64
A_51_P482614 1700094E07Rik,Dusp21
A_51_P385879 Kcnma3,Slo3,mSlo3
A_51_P103027 A_51_P103027
A_51_P381485 4930542N07Rik
A_51_P132761 Pcdh15,av,nmf19
A_51_P409170 Ldh2,Ldhd,Ldh-2
A_51_P452408 Anln,Scraps,ANILLIN,1110037A17Rik,2900037I21Ri
A_51_P468119 Trim39,tfp,Rnf23,KIAA4179,mKIAA4179,RBCC-B30.
A_51_P200696 Slmap,Slap,KIAA1601,mKIAA1601,D330001L02Rik
A_51_P103070 NAP033234-1
A_51_P482628 Rps6ka4,Msk2,90kDa,mMSK2,1110069D02Rik
A_51_P131600 5730469D23Rik,4930542H01
A_51_P489501 5730593N15Rik
A_51_P221814 Slc39a11,1810074D23Rik
A_51_P381459 Zfpn1a1,LyF-1,hlk-1,Ikaros,Zfn1a1,KIAA4227,mKIA
A_51_P217592 Nxph2
A_51_P132748 Arntl,MOP3,Arnt3,Bmal1,BMAL1b,bmal1b'
A_51_P143911 2500002L14Rik,MGC103058,1700047F16Rik,62304
A_51_P520751 A_51_P520751
A_51_P489765 2600013E07Rik
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A_51_P246983 Ftl1,Ftl,Ftl-1,MGC102130,MGC102131
A_51_P116427 Pigv,B330013B03,D430024F16Rik

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A_51_P283182 Cdc34
A_51_P423119 Gba,GC,GBA1,GLUC,GCase
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A_51_P242555 TC1085242
A_51_P305981 Olfr620,MOR4-1
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A_51_P162712 Bsn
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A_51_P162752 Zfp623,MGC101961,2610029D06Rik
A_51_P112821 Cyp27a1,Cyp27,1300013A03Rik
A_51_P214443 A_51_P214443
A_51_P313348 Chl1,CALL,LICAM2,A530023M13Rik
A_51_P242570 4932415G16Rik,4931410B03
A_51_P315924 Fgf21
A_51_P186172 BC005764,Prg2,KIAA4076,mKIAA4076
A_51_P360728 NAP057028-1
A_51_P428382 Ttyh1,TTY,4930459B04Rik,6330408P11Rik
A_51_P246954 Ap3s1,[s]3A
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A_51_P219292 BC038040
A_51_P507708 Al605781
A_51_P246907 Rps27l,1810034D23Rik
A_51_P507500 NAP031975-1
A_51_P383238 Rpl10a,Nedd6,CsA-19
A_51_P507731 Sema3c,SemE,Semae,1110036B02Rik
A_51_P186101 Ctsc,DPP1,DPPI
A_51_P361812 Ppap2c,Lpp2
A_51_P242595 Myo1c,MMIb,myr2,MYO1E,mm1beta
A_51_P330778 NAP057218-1
A_51_P219055 Oxa1l,1810020M02Rik
A_51_P173311 NAP057128-1
A_51_P453541 Fbxw5,Fbw5
A_51_P291571 5730509K17Rik
A_51_P478858 Def6,Slat6,2410003F05Rik,6430538D02Rik
A_51_P247211 2410008J05Rik,Hole
A_51_P442324 4932439K10Rik,mKIAA0376,4930470P14Rik,95300!
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A_51_P448384 Nkiras1,KBRAS1,kappaB-Ras1,2400004O09Rik
A_51_P267574 G6pc2,IGRP,G6pc-rs
A_51_P330727 2700068H02Rik
A_51_P246969 Synpo2
A_51_P265838 Hoxb4,Hox-2.6
A_51_P271944 9130017A15Rik,TA-PP2C
A_51_P390908 Scamp5,Sc5
A_51_P348151 Mgat5,GlcNAc-TV,4930471A21Rik,5330407H02Rik

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A_51_P324383 4933403O03Rik
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A_51_P112854 2610511O17Rik
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A_51_P264013 C1qtnf2,CTRP2,1810033K05Rik
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A_51_P214552 NAP057125-1
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A_51_P371377 Ssbp4,Sspb4,1210002E11Rik
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A_51_P255541 Tbl1x,Tbl1,5330429M20
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A_51_P445370 Serpinb1b,EIB,Serpin1b1,ovalbumin,6330533H24Rik
A_51_P356143 Snrp70,70kDa,U1-70,Srn70,Rnulp70,SNRNP70,270
A_51_P520860 Selk,30kDa,Hsp30,Hsp030,HSPC030,1110001C03R
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A_51_P221984 D15Mit260,260,D15N2e,MIRab13,EST573322,EST8
A_51_P302016 5730446D14Rik,2810043O09Rik
A_51_P356052 Grp,BLP,MGC37475
A_51_P134829 Hoxc9,Hox-3.2
A_51_P234873 Elovl4

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A_51_P482913 Arrdc4,2410003C09Rik
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A_51_P237154 Spock3,KIAA4039,mKIAA4039,2900045C01Rik
A_51_P336897 Fzd6,Fz6
A_51_P221997 Man1c1
A_51_P479310 Gstm1,Gstb1,Gstb-1
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A_51_P486560 5033421C21Rik
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A_51_P113093 Dlx1,Dlx,Dlx-1
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A_51_P289351 Gtpbp3,MGC102372,2410009F13Rik
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A_51_P468478 Entpd8
A_51_P455405 Spam1,Ph-20
A_51_P262179 Il3,Il-3,Csfmu
A_51_P514131 M35436
A_51_P341609 Erf
A_51_P286585 Ppy,PP,IGSPP
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A_51_P416591 Hdlbp,D1Erttd101e,1110005P14Rik
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A_51_P132620 Dhrr8,SDR2,Pan1b,retSDR2,Hsd17b11
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A_51_P286517 AI841987
A_51_P291741 Skiv2l,SKI,Ddx13,Ski2w,4930534J06Rik
A_51_P337756 Zfp535,KOX11,D11Erttd714e,1700128E15Rik

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A_51_P272973 A630001G21Rik
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A_51_P456867 Foxj1,Hfh4,HFH-4,FKHL-13
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A_51_P350375 Amt
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A_51_P395476 Tenc1,C1-ten
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A_51_P230600 Serpinb3d,Serpinb3l1
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A_51_P463718 Pde8a,Pde8
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A_51_P477899 Jarid1c,Smcx,mKIAA0234
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A_51_P103437 Eif2c1,Ago1
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A_51_P413752 Arhgef16
A_51_P234008 Z30 small nucleolar RNA
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A_51_P492246 Wdr61,REC14,2700038L12Rik,2810418I05Rik
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A_51_P289526 Zfp26,Zfp70,mkr-3,KRAB15,Zfp-26,mszf14,mszf52,K
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A_51_P185683 Mmp1a,Mcola,Mcol-A
A_51_P424211 Fxyd3,Mat8
A_51_P498856 Wnt16,E130309I19Rik
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A_51_P424261 H2-K1,H-2K,H2-K,MHC I
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A_51_P515206 Sema4f
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A_51_P214335 Sephs1,SPS,SELD,SPS1,1110046B24Rik
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A_51_P252324 Lgi1
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A_51_P400384 Sdsl,SDS-RS1,4432411H13Rik
A_51_P109709 Olfr689,MOR40-3
A_51_P515129 4933413A10Rik,Gm450
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A_51_P258279 Gal,Galn
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Sequence Description	Accession #	Experiment Name	WT/CON vs	Fold Change
Mus musculus CD14 antigen (Cd14), mRNA [NM_009841]	NM_009841			1.05619
Mus musculus guanine nucleotide binding protein, alpha inhibiting 2 (Gnai2), mRNA [NM_008138]	NM_008138			1.16098
Mus musculus biphenyl hydrolase-like (serine hydrolase, breast epithelial mucin Vacuolar protein sorting 39 (yeast)	NM_026512			-1.04434
	BC007479			-1.01768
Mus musculus dexamethasone-induced transcript (Dexi), mRNA [NM_021428]	NM_021428			-1.24077
Mus musculus vomeronasal 1 receptor, E13 (V1re13), mRNA [NM_145848]	NM_145848			1.11667
RIKEN cDNA E130308A19 gene	AK038359			-1.20599
Mus musculus ATPase, Ca ⁺⁺ transporting, plasma membrane 2 (Atp2b2), mRNA [NM_009723]	NM_009723			1.02768
Protein phosphatase 1, regulatory (inhibitor) subunit 12A	AK035230			-1.81245
hypothetical protein A030013D21	NM_177628			1.0529
DNA segment, Chr 4, ERATO Doi 432, expressed	AK010559			-1.04281
Immunoglobulin heavy chain 6 (heavy chain of IgM)	V00827			-1.13087
Unknown				1.01732
Mus musculus RIKEN cDNA 1110002N22 gene (1110002N22Rik), mRNA [NM_183275]	NM_183275			1.04563
Mus musculus carbohydrate sulfotransferase 11 (Chst11), mRNA [NM_021439]	NM_021439			-1.02286
Trinucleotide repeat containing 6a	AK083848			1.0969
RIKEN cDNA 4930565A21 gene	AK029796			1.09526
Mus musculus exportin 1, CRM1 homolog (yeast) (Xpo1), mRNA [NM_134014]	NM_134014			-1.30694
Mus musculus protein kinase, cAMP dependent, catalytic, beta (Prkacb), mRNA [NM_011100]	NM_011100			1.03717
Mus musculus FYVE and coiled-coil domain containing 1 (Fyco1), mRNA [NM_148925]	NM_148925			-1.02539
Ubiquitin specific protease 24	BC030081			1.06216
Mus musculus cDNA sequence BC021891 (BC021891), mRNA [NM_145608]	NM_145608			1.04198
Mus musculus keratin complex 2, basic, gene 5 (Krt2-5), mRNA [NM_027011]	NM_027011			1.02762
Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone AK009658				1
Mus musculus solute carrier family 29 (nucleoside transporters), member 3 (Slc29a3), mRNA [NM_023596]	NM_023596			1.01579
Mus musculus nuclear receptor subfamily 5, group A, member 2 (Nr5a2), mRNA [NM_030676]	NM_030676			-1.00396
Mus musculus TH1-like homolog (Drosophila) (Th1l), mRNA [NM_020580]	NM_020580			1.07958
RIKEN cDNA 9130014L17 gene	AK018621			-1.01058
Mus musculus RIKEN cDNA 2600017A12 gene (2600017A12Rik), mRNA [NM_028242]	NM_028242			-1.08471
Mus musculus carbonic anhydrase 2 (Car2), mRNA [NM_009801]	NM_009801			-1.11498
Mus musculus programmed cell death protein 11 (Pcd11), mRNA [NM_011053]	NM_011053			1.08709
Mus musculus solute carrier family 2 (facilitated glucose transporter), member 5 (Slc2a5), mRNA [NM_019741]	NM_019741			-1.229
Mus musculus olfactory receptor 1226 (Olfr1226), mRNA [NM_146967]	NM_146967			1.03342
Mus musculus phosphodiesterase 6B, cGMP, rod receptor, beta polypeptide (Pde6b), mRNA [NM_008806]	NM_008806			1.02844
Mus musculus chemokine (C-C) receptor 2 (Ccr2), mRNA [NM_009915]	NM_009915			-1.32163
Heparan sulfate (glucosamine) 3-O-sulfotransferase 2	AK032292			1.07062
Mus musculus CD83 antigen (Cd83), mRNA [NM_009856]	NM_009856			-1.12375
UTP14, U3 small nucleolar ribonucleoprotein, homolog A (yeast)	AK012492			1.19629
Mus musculus RIKEN cDNA 1700027D21 gene (1700027D21Rik), mRNA [NM_029661]	NM_029661			1.06059
RIKEN cDNA 2410076I21 gene	AK010725			-1.14601
Mus musculus nemo like kinase (Nlk), mRNA [NM_008702]	NM_008702			1.02575
Mus musculus RIKEN cDNA 2010002H18 gene (2010002H18Rik), mRNA [NM_198653]	NM_198653			-1.06869
RIKEN cDNA 1700086D15 gene	AK007013			1.0107
Mus musculus RIKEN cDNA 2700007P21 gene (2700007P21Rik), mRNA [NM_173750]	NM_173750			-1.17435
Unknown				1.06437
Mus musculus RIKEN cDNA 2210421G13 gene (2210421G13Rik), mRNA [NM_175391]	NM_175391			-1.19233
Mus musculus calsequestrin 1 (Casq1), mRNA [NM_009813]	NM_009813			1.02116
Mus musculus dual specificity phosphatase 11 (RNA/RNP complex 1-interacting phosphatase 11), mRNA [NM_028099]	NM_028099			-1.18027
Mus musculus potassium channel modulatory factor 1 (Kcmf1), mRNA [NM_019715]	NM_019715			-1.31407
RIKEN cDNA 1300015B04 gene	BC043473			1.01613

Mus musculus RIKEN cDNA 2610003J06 gene (2610003J06Rik), mRNA [NM_028101]		1.18135
Mus musculus Fc receptor, IgE, low affinity II, alpha polypeptide (Fcer2a), mRNA [NM_013517]		1.04191
Mus musculus biliverdin reductase B (flavin reductase (NADPH)) (Blvrb), mRNA [NM_144923]		-1.20426
Mus musculus RIKEN cDNA F730004D16 gene (F730004D16Rik), mRNA [NM_145634]		-1.18094
Mus musculus homeo box gene expressed in ES cells (Hesx1), mRNA [NM_010420]		1.05373
RAS-like, family 12	AK014511	-1.23779
Mus musculus myelin protein zero (Mpz), mRNA [NM_008623]	NM_008623	-1.02087
Mus musculus RIKEN cDNA 1810009J06 gene (1810009J06Rik), mRNA [NM_023707]		1.00263
Mus musculus acyl-Coenzyme A oxidase 1, palmitoyl (Acox1), mRNA [NM_015729]		-1.15123
Mus musculus poliovirus receptor (Pvr), mRNA [NM_009310]	NM_009310	1.04756
Mus musculus sodium channel, voltage-gated, type VIII, alpha polypeptide (Scn8a), mRNA [NM_011323]		-1.17642
Mus musculus cell division cycle associated 4 (Cdca4), mRNA [NM_028023]	NM_028023	-1.0711
Mus musculus rod outer segment membrane protein 1 (Rom1), mRNA [NM_009073]		-1.3105
Mus musculus coatamer protein complex, subunit zeta 2 (Copz2), mRNA [NM_019877]		-1.03004
Mus musculus proliferation-associated 2G4 (Pa2g4), mRNA [NM_011119]	NM_011119	1.25551
Hect domain and RLD 5	AK037442	1.232
similar to keratin associated protein 4-10; keratin associated protein 4.10	BC016249	1.10518
Mus musculus olfactory receptor 1256 (Olfr1256), mRNA [NM_146983]	NM_146983	1.05961
Dickkopf homolog 4 (Xenopus laevis)	NM_145592	1
Unknown		-1.05897
Mus musculus RIKEN cDNA 4933432P15 gene (4933432P15Rik), mRNA [NM_175164]		1.04334
RIKEN cDNA 1700018O18 gene	AK006096	-1.27689
Mus musculus RIKEN cDNA 1810009N24 gene (1810009N24Rik), mRNA [NM_026915]		1.07447
Mus musculus GA repeat binding protein, beta 2 (Gabpb2), mRNA [NM_172512]		1
RNA, U22 small nucleolar	AK051045	1.00473
Mus musculus general transcription factor IIB (Gtf2b), mRNA [NM_145546]	NM_145546	-1.33751
Mus musculus RIKEN cDNA 2610020J05 gene (2610020J05Rik), mRNA [NM_023292]		-1.28902
Mus musculus immediate early response 3 (Ier3), mRNA [NM_133662]	NM_133662	-1.24402
RIKEN cDNA 2700038G22 gene	AK002390	1.15758
RIKEN cDNA 4933430H15 gene	AK029938	-1.01212
Mus musculus interleukin 2 receptor, beta chain (Il2rb), mRNA [NM_008368]	NM_008368	1.01352
Mus musculus RIKEN cDNA 2010100O12 gene (2010100O12Rik), mRNA [NM_025946]		-1.05007
RIKEN cDNA 4933427G23 gene	AK030236	1.11354
Eukaryotic translation initiation factor 5B	BC037150	-1.29183
Mus musculus expressed sequence AA408296 (AA408296), mRNA [NM_14541]	NM_145415	1.05769
Mus musculus RIKEN cDNA 1700052K11 gene (1700052K11Rik), mRNA [NM_028539]		-1.08562
Mus musculus zinc finger protein 180 (Zfp180), mRNA [NM_172483]	NM_172483	-1.33141
Mus musculus S100 calcium binding protein A1 (S100a1), mRNA [NM_011309]	NM_011309	-1.03411
Similar to Sorting nexin 23	AK018455	-1.08386
Mus musculus RIKEN cDNA 2900024C23 gene (2900024C23Rik), mRNA [NM_026062]		-1.19286
Mus musculus natriuretic peptide receptor 3 (Npr3), mRNA [NM_008728]	NM_008728	-1.38174
Mus musculus RIKEN cDNA 5330431N24 gene (5330431N24Rik), mRNA [NM_181402]		-1.00549
Poly (ADP-ribose) polymerase family, member 14	AK089685	-1.00624
Mus musculus ring finger protein 103 (Rnf103), mRNA [NM_009543]	NM_009543	-1.1166
Potassium voltage-gated channel, subfamily F, member 1	AK043920	-1.00245
Mus musculus cDNA sequence BC021523 (BC021523), mRNA [NM_172611]	NM_172611	-1.2465
Mus musculus phosphoinositide-3-kinase adaptor protein 1 (Pik3ap1), mRNA [NM_031376]		-1.06067
Mus musculus RAB33B, member of RAS oncogene family (Rab33b), mRNA [NM_016858]		-1.40029
Mus musculus peroxiredoxin 3 (Prdx3), mRNA [NM_007452]	NM_007452	-1.15854
Mus musculus kinesin 2 (Kns2), mRNA [NM_008450]	NM_008450	-1.06522
Mus musculus proline-rich protein 15 (Prp15), mRNA [NM_019629]	NM_019629	1.02194
hypothetical protein 1700020H15	NM_175020	1.14577

Mus musculus odd Oz/ten-m homolog 3 (Drosophila) (Odz3), mRNA [NM_0118:NM_011857]		1.02164
Mus musculus olfactory receptor 493 (Olf493), mRNA [NM_146310]	NM_146310	1.06935
Mus musculus alkylglycerone phosphate synthase (Agps), mRNA [NM_172666]	NM_172666	-1.1547
Mus musculus hepatic leukemia factor (Hlf), mRNA [NM_172563]	NM_172563	-1.07587
Syndecan 3	U52826	1.1424
Mus musculus RIKEN cDNA 1500031L02 gene (1500031L02Rik), mRNA [NM_(NM_025892]		-1.09988
Mus musculus 13 days embryo forelimb cDNA, RIKEN full-length enriched librar	AK031195	-1.02874
Mus musculus cyclin D3 (Ccnd3), mRNA [NM_007632]	NM_007632	1.10181
Mus musculus CD34 antigen (Cd34), mRNA [NM_133654]	NM_133654	-1.45629
Mus musculus Bardet-Biedl syndrome 4 homolog (human) (Bbs4), mRNA [NM_ NM_175325]		-1.1261
Mus musculus RIKEN cDNA D030060M11 gene (D030060M11Rik), mRNA [NM NM_146000]		1.06507
Mus musculus olfactory receptor 434 (Olf434), mRNA [NM_146369]	NM_146369	1.05177
Mus musculus olfactory receptor 572 (Olf572), mRNA [NM_147089]	NM_147089	1.1129
RIKEN cDNA 1500035N22 gene	AK005363	-1.0828
Mus musculus SEC22 vesicle trafficking protein-like 3 (S. cerevisiae) (Sec22l3),	NM_178677	1.02341
hypothetical protein A730067D02	AK043188	1.03736
Mus musculus mature T-cell proliferation 1 (Mtcp1), mRNA [NM_010839]	NM_010839	-1.27265
RIKEN cDNA 4930513O06 gene	AK015788	1.02401
RIKEN cDNA 0610039D01 gene	NM_026307	-1.00361
Mus musculus acrosomal vesicle protein 1 (Acrv1), mRNA [NM_007391]	NM_007391	1.15474
Mus musculus RIKEN cDNA 2610524B04 gene (2610524B04Rik), mRNA [XM_ XM_128905]		1.07899
Mus musculus cadherin 4 (Cdh4), mRNA [NM_009867]	NM_009867	1.02016
Mus musculus zinc finger protein 398 (Zfp398), mRNA [NM_027477]	NM_027477	1.1296
CUB domain containing protein 1	BC011340	1.10408
Mus musculus enamelin (Enam), mRNA [NM_017468]	NM_017468	1.08002
Mus musculus RIKEN cDNA 2810409H07 gene (2810409H07Rik), mRNA [NM_ NM_025942]		-1.65977
Mus musculus RIKEN cDNA 2310021H06 gene (2310021H06Rik), mRNA [NM_ NM_025990]		1.17952
Mus musculus cytidine 5'-triphosphate synthase 2 (Ctps2), mRNA [NM_018737]	NM_018737	-1.11565
Mus musculus ribonucleotide reductase M1 (Rrm1), mRNA [NM_009103]	NM_009103	-1.1995
Mus musculus cDNA sequence AF085738 (AF085738), mRNA [NM_138658]	NM_138658	-1.08619
Mus musculus RIKEN cDNA 4921526G09 gene (4921526G09Rik), mRNA [NM_ NM_025729]		-1.36589
Mus musculus sulfotransferase family 3A, member 1 (Sult3a1), mRNA [NM_020 NM_020565]		1.04107
Mus musculus RIKEN cDNA A630077B13 gene (A630077B13Rik), mRNA [NM_ NM_175449]		-1.22826
Mus musculus fibronectin 1 (Fn1), mRNA [NM_010233]	NM_010233	1.02214
CDNA sequence BC024137	BC024137	-1.03888
Abhydrolase domain containing 9	AK010021	1.07886
Mus musculus ribosomal protein L36a (Rpl36a), mRNA [NM_019865]	NM_019865	-1.23752
Mus musculus mcf.2 transforming sequence (Mcf2), mRNA [NM_133197]	NM_133197	1
Mus musculus histone 1, H2ae (Hist1h2ae), mRNA [NM_178187]	NM_178187	1.10641
Mus musculus prefoldin 5 (Pfdn5), mRNA [NM_020031]	NM_020031	1.05756
Mus musculus transmembrane serine protease 6 (Tmprss6), mRNA [NM_02790 NM_027902]		-1.06375
RIKEN cDNA 0610009O20 gene	BC002117	1.00183
Mus musculus colony stimulating factor 2 (granulocyte-macrophage) (Csf2), mR	NM_009969	-1.07963
Mus musculus DNA segment, Chr 6, Wayne State University 176, expressed (D	NM_138587	-1.38399
RIKEN cDNA 3110050K21 gene	AK078225	1.07889
Mus musculus elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3,	NM_019423	-1.00533
Mus musculus vacuolar protein sorting 13C (yeast) (Vps13c), mRNA [NM_1771 NM_177184]		1.05179
Mus musculus olfactory receptor 541 (Olf541), mRNA [NM_146962]	NM_146962	-1.11096
Mus musculus T-cell lymphoma invasion and metastasis 2 (Tiam2), mRNA [NM_ NM_011878]		-1.04086
Mus musculus expressed sequence AI842353 (AI842353), mRNA [NM_178929 NM_178929]		-1.06333
Mus musculus carbonyl reductase 2 (Cbr2), mRNA [NM_007621]	NM_007621	2.17256
Mus musculus RIKEN cDNA 1110060M21 gene (1110060M21Rik), mRNA [NM_ NM_025424]		-1.12787

Mus musculus cyclin-dependent kinase 5, regulatory subunit 2 (p39) (Cdk5r2), r	NM_009872	3.18488
Choline dehydrogenase	AK052715	1.0456
Mus musculus RIKEN cDNA 1110020C03 gene (1110020C03Rik), mRNA [NM_	NM_026789	-1.01754
Potassium inwardly-rectifying channel, subfamily J, member 15	AF085696	1.1544
Mus musculus mitogen activated protein kinase kinase 6 (Map2k6), mRNA [NM_	NM_011943	-1.27551
Mus musculus piccolo (presynaptic cytomatrix protein) (Pclo), mRNA [NM_0119	NM_011995	1.07009
RIKEN cDNA 4930447A16 gene	AK015396	-1.05187
Mus musculus 12 days embryo male wolffian duct includes surrounding region c	AK032863	-1.33591
RAB2, member RAS oncogene family	AK083039	1.06403
Mus musculus claudin 5 (Cldn5), mRNA [NM_013805]	NM_013805	1.04915
Inner membrane protein, mitochondrial	AK038129	-1.10616
Mus musculus Jun-B oncogene (Junb), mRNA [NM_008416]	NM_008416	1.08198
Mus musculus glutathione S-transferase, alpha 4 (Gsta4), mRNA [NM_010357]	NM_010357	-1.35534
Mus musculus adult male thymus cDNA, RIKEN full-length enriched library, clon	AK018014	1.01251
Mus musculus transient receptor potential cation channel, subfamily V, member	NM_145099	1.0116
Mus musculus RAB11B, member RAS oncogene family (Rab11b), mRNA [NM_	NM_008997	1.05144
Mus musculus neighbor of Brca1 gene 1 (Nbr1), mRNA [NM_008676]	NM_008676	-1.12231
Mus musculus vomeronasal 1 receptor, B7 (V1rb7), mRNA [NM_053228]	NM_053228	1.0628
Unknown		1.04901
hypothetical protein 4933402J07	NM_177901	1.11927
Unknown		-1.03607
TBC1 domain family, member 17	AK087754	-1.05205
Mus musculus nuclear factor of activated T-cells, cytoplasmic, calcineurin-deper	NM_198429	-1.03521
Exportin, tRNA (nuclear export receptor for tRNAs)	AK003432	-1.45706
Mus musculus a disintegrin-like and metalloprotease (reprolysin type) with thron	NM_172466	1.08222
Mus musculus arginyl aminopeptidase (aminopeptidase B) (Rnpep), mRNA [NM	NM_145417	1.07004
Mus musculus RIKEN cDNA 4933406E20 gene (4933406E20Rik), mRNA [NM_	NM_028944	1.0724
Mus musculus myosin binding protein C, fast-type (Mybpc2), mRNA [NM_1461	NM_146189	-1.06184
Mus musculus sin3 associated polypeptide (Sap30), mRNA [NM_021788]	NM_021788	-1.45644
Mus musculus chemokine (C-C motif) ligand 6 (Ccl6), mRNA [NM_009139]	NM_009139	-1.2188
Mus musculus RIKEN cDNA 2610507L03 gene (2610507L03Rik), mRNA [NM_	(NM_028120	-1.02874
Mus musculus solute carrier family 6 (neurotransmitter transporter, GABA), men	NM_144512	1.0848
Mus musculus zinc finger protein, multitype 2 (Zfpm2), mRNA [NM_011766]	NM_011766	1.04119
RIKEN cDNA 3230401I01 gene	AK129469	-1.00588
Mus musculus RIKEN cDNA 1110030H02 gene (1110030H02Rik), mRNA [NM_	NM_144524	-1.38602
Mus musculus RIKEN cDNA 1700063I17 gene (1700063I17Rik), mRNA [NM_	NM_183272	1.0793
OTU domain, ubiquitin aldehyde binding 2	AK053095	-1.00625
Mus musculus histone 2, H3c1 (Hist2h3c1), mRNA [NM_178216]	NM_178216	-1.08921
Mus musculus GLI pathogenesis-related 2 (Glipr2), mRNA [NM_027450]	NM_027450	-1.03814
Nuclear cap binding protein subunit 1, 80kDa	AK051490	1.03783
Solute carrier organic anion transporter family, member 4C1	AK035459	-1.46355
Mus musculus solute carrier family 16 (monocarboxylic acid transporters), meml	NM_134038	1.01717
Mus musculus prolactin-like protein A (PrpA), mRNA [NM_011165]	NM_011165	1.07819
Mus musculus Moloney leukemia virus 10 (Mov10), mRNA [NM_008619]	NM_008619	1.2502
Mus musculus a disintegrin and metalloprotease domain 2 (Adam2), mRNA [NM	NM_009618	1.02488
Mus musculus replication protein A3 (Rpa3), mRNA [NM_026632]	NM_026632	-1.3296
Unknown		1.07224
Mus musculus RIKEN cDNA 2010109K11 gene (2010109K11Rik), mRNA [NM_	NM_028111	-1.13795
Mus musculus RIKEN cDNA 2900073H19 gene (2900073H19Rik), mRNA [NM_	NM_026615	1.01487
VW domain containing adaptor with coiled-coil	AK044675	-1.35101
Mus musculus olfactory receptor 520 (Olf520), mRNA [NM_147063]	NM_147063	1.01447
Mus musculus olfactory receptor 584 (Olf584), mRNA [NM_147054]	NM_147054	1.08991

Mus musculus RIKEN cDNA 9130210N20 gene (9130210N20Rik), mRNA [NM_	NM_172607	-1.17148
Mus musculus RIKEN cDNA 8430415E04 gene (8430415E04Rik), mRNA [NM_	NM_028980	1.02949
Mus musculus KDEL (Lys-Asp-Glu-Leu) containing 1 (Kdelc1), mRNA [NM_023	NM_023645	-1.19632
RIKEN cDNA 4931431F19 gene	AK016497	-1.01766
Opioid growth factor receptor-like 1	BC019747	1.08126
Ribosomal protein S6 kinase, polypeptide 1	AK028860	-1.11568
Mus musculus Eph receptor B6 (Ephb6), mRNA [NM_007680]	NM_007680	-1.07594
Mus musculus neuromedin B (Nmb), mRNA [NM_026523]	NM_026523	-1.0964
Mus musculus potassium intermediate/small conductance calcium-activated cha	NM_080465	-1.06163
Mus musculus RAB19, member RAS oncogene family (Rab19), mRNA [NM_01	NM_011226	-1.12519
Mus musculus potassium voltage-gated channel, Isk-related subfamily, gene 3 (	NM_020574	1.02523
Mus musculus RIKEN cDNA C130074G19 gene (C130074G19Rik), mRNA [NM	NM_178692	1.246
RIKEN cDNA 5730427M17 gene	AK030734	-1.01817
Mus musculus meiotic recombination 11 homolog A (S. cerevisiae) (Mre11a), m	NM_018736	-1.0681
Mus musculus cyclin M2 (Cnm2), mRNA [NM_033569]	NM_033569	-1.03325
Mus musculus RIKEN cDNA 5730419I09 gene (5730419I09Rik), mRNA [NM_0;	NM_029081	-1.38954
Mus musculus RIKEN cDNA 2600017H08 gene (2600017H08Rik), mRNA [NM_	NM_025565	-1.38295
Mus musculus adult male thymus cDNA, RIKEN full-length enriched library, clon	AK020011	-1.02398
Mus musculus mitochondrial ribosomal protein L4 (Mrpl4), mRNA [NM_023167]	NM_023167	1.07379
Mus musculus RIKEN cDNA 2810410P22 gene (2810410P22Rik), mRNA [NM_	NM_182994	-1.38643
Mus musculus FK506 binding protein 5 (Fkbp5), mRNA [NM_010220]	NM_010220	1.06342
Sec23 interacting protein	AK042851	-1.14742
HSPC171 protein	NM_025486	-1.2426
Mus musculus plasminogen activator, tissue (Plat), mRNA [NM_008872]	NM_008872	1.20206
Mus musculus 18-day embryo whole body cDNA, RIKEN full-length enriched lib	AK003650	-1.06909
Mus musculus RIKEN cDNA 5430419D17 gene (5430419D17Rik), mRNA [NM_	NM_175166	-1.04563
Guanylate cyclase 2c	U49723	1.06777
Mus musculus RIKEN cDNA 1110019L22 gene (1110019L22Rik), mRNA [NM_	(NM_026756	1.06274
Expressed sequence AI115610	NM_026728	1.0074
Mus musculus vomeronasal 1 receptor, C28 (V1rc28), mRNA [NM_134183]	NM_134183	1.04783
Similar to CDNA sequence BC002059	AJ005350	-1.01416
Mus musculus isopentenyl-diphosphate delta isomerase (Idi1), mRNA [NM_177	NM_177960	-1.5756
Cytochrome P450, family 2, subfamily c, polypeptide 70	NM_145499	1.01462
RIKEN cDNA 8030498J20 gene	AK033346	1
Mus musculus cytochrome P450, family 4, subfamily f, polypeptide 14 (Cyp4f14	NM_022434	1.02275
Mus musculus RIKEN cDNA 3200001F09 gene (3200001F09Rik), mRNA [NM_	NM_027935	-1.38091
Mus musculus LIM homeobox transcription factor 1 beta (Lmx1b), mRNA [NM_	(NM_010725	1.14861
Mus musculus RIKEN cDNA A630047E20 gene (A630047E20Rik), mRNA [NM_	NM_173032	1.05485
RIKEN cDNA F830021D11 gene	AK089790	1.10901
Mus musculus solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 r	NM_012030	1.19191
Mus musculus solute carrier family 19 (sodium/hydrogen exchanger), member 1	NM_031196	-1.08712
Mus musculus liver glycogen phosphorylase (Pygl), mRNA [NM_133198]	NM_133198	-1.1909
Mus musculus lactate dehydrogenase 3, C chain, sperm specific (Ldh3), mRNA	NM_013580	1.04324
Mus musculus keratin complex 2, basic, gene 8 (Krt2-8), mRNA [NM_031170]	NM_031170	1.15659
Mus musculus cDNA sequence BC024479 (BC024479), mRNA [NM_146222]	NM_146222	-1.2106
Mus musculus RIKEN cDNA 4933413N12 gene (4933413N12Rik), mRNA [XM_	XM_128561	1.03527
Mus musculus wingless-related MMTV integration site 1 (Wnt1), mRNA [NM_02	NM_021279	1.08406
Sno, strawberry notch homolog 1 (Drosophila)	AK034345	1.00005
RIKEN cDNA 5730521P14 gene	AK017783	-1.10978
Mus musculus transmembrane protein 27 (Tmem27), mRNA [NM_020626]	NM_020626	-1.00045
RIKEN cDNA 4930435F18 gene	AK015323	1.22392
RIKEN cDNA 1700019B01 gene	AK006105	1.06217

Mus musculus RIKEN cDNA 4921525D22 gene (4921525D22Rik), mRNA [NM_	NM_172497	-1.27841
RIKEN cDNA 1700026G02 gene	AK006382	1.01832
Mus musculus amylase 1, salivary (Amy1), mRNA [NM_007446]	NM_007446	-1.026
RIKEN cDNA 2310040M23 gene	AK009730	1.10081
PDZ domain containing 3	AK020883	-1.24709
Mus musculus coagulation factor XIII, alpha subunit (F13a), mRNA [NM_028784	NM_028784	-1.4558
Mus musculus RIKEN cDNA 2610029K21 gene (2610029K21Rik), mRNA [NM_	NM_025663	-1.18567
Mus musculus glutamate receptor, ionotropic, delta 2 (Grid2), mRNA [NM_0081	NM_008167	-1.00572
Mus musculus CCR4-NOT transcription complex, subunit 10 (Cnot10), mRNA [NM_	NM_153585	1.09162
Mus musculus protocadherin beta 1 (Pcdhb1), mRNA [NM_053126]	NM_053126	1.03459
Mus musculus RAS p21 protein activator 3 (Rasa3), mRNA [NM_009025]	NM_009025	-1.02056
Ataxin 7-like 3	AK090368	1.4937
Mus musculus cyclin-dependent kinase 7 (homolog of Xenopus MO15 cdk-activ	NM_009874	-1.65425
Mus musculus RIKEN cDNA E130012A19 gene (E130012A19Rik), mRNA [NM_	NM_175332	1.11994
Mus musculus cDNA sequence BC031781 (BC031781), mRNA [NM_145943]	NM_145943	1.13939
Mus musculus connective tissue growth factor (Ctgf), mRNA [NM_010217]	NM_010217	-1.20116
Mus musculus CDC-like kinase (Clk), mRNA [NM_009905]	NM_009905	-1.29878
Sloan-Kettering viral oncogene homolog	AK009316	1.20581
NOL1/NOP2/Sun domain family 6	AK038904	1.01493
Mus musculus deleted in colorectal carcinoma (Dcc), mRNA [NM_007831]	NM_007831	1.07919
Mus musculus RIKEN cDNA 1300014I06 gene (1300014I06Rik), mRNA [NM_0	NM_025831	-1.03984
Mus musculus ribosomal protein, large, P1 (Rplp1), mRNA [NM_018853]	NM_018853	-1.09195
Mus musculus solute carrier family 15 (H+/peptide transporter), member 2 (Slc1	NM_021301	-1.00368
UI-M-BH0-ajz-h-09-0-UI.s1 NIH_BMAP_M_S1 Mus musculus cDNA clone UI-M-	AI854246	1.10815
testis serine protease 2	NM_153099	1.04423
Mus musculus glucose phosphate isomerase 1 (Gpi1), mRNA [NM_008155]	NM_008155	-1.09614
Mus musculus benzodiazapine receptor, peripheral-like 1 (Bzrp1), mRNA [NM_	NM_027292	1.07991
RIKEN cDNA 1700030G11 gene	AK006546	1.0423
Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 7 (B14	NM_023202	-1.00936
Glutamate receptor, ionotropic, delta 2	AK034271	1.11475
Mus musculus estrogen related receptor, alpha (Esrra), mRNA [NM_007953]	NM_007953	1.12807
H2-PA SEQUENCE AFTER REMOVAL OF THE INSERTED NUCLEOTIDE G AT THE POSITI		1.14776
Mus musculus RIKEN cDNA C330005L02 gene (C330005L02Rik), mRNA [NM_	NM_138756	-1.20986
Mus musculus zinc finger protein 393 (Zfp393), mRNA [NM_029416]	NM_029416	1.12538
Mus musculus cadherin 6 (Cdh6), mRNA [NM_007666]	NM_007666	1.1464
Mus musculus expressed sequence AI194308 (AI194308), mRNA [NM_138752	NM_138752	1.04885
Mus musculus RIKEN cDNA 2300009P13 gene (2300009P13Rik), mRNA [NM_	NM_025324	-1.02122
Mus musculus SWI/SNF related, matrix associated, actin dependent regulator o	NM_009211	1.00328
Mus musculus solute carrier family 2 (facilitated glucose transporter), member 2	NM_031197	-1.0443
Mus musculus growth arrest specific 1 (Gas1), mRNA [NM_008086]	NM_008086	-1.28043
Mus musculus RIKEN cDNA 2810007J24 gene (2810007J24Rik), mRNA [NM_1	NM_175250	-1.32336
Mus musculus copper chaperone for superoxide dismutase (Ccs), mRNA [NM_	(NM_016892	-1.08127
RIKEN cDNA 1700010M22 gene	BY714686	1.03107
Mus musculus RIKEN cDNA 4921520G13 gene (4921520G13Rik), mRNA [NM_	NM_025732	1.0717
Mus musculus RIKEN cDNA 5630401J11 gene (5630401J11Rik), mRNA [NM_1	NM_134114	-2.05383
Sodium channel modifier 1	AK013948	-1.06447
Mus musculus nuclear RNA export factor 2 (Nxf2), mRNA [NM_031259]	NM_031259	-1.08255
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:	AK016549	-1.00337
Mus musculus RIKEN cDNA 4933428A15 gene (4933428A15Rik), mRNA [NM_	NM_027756	1.04823
Mus musculus RIKEN cDNA 4933437N03 gene (4933437N03Rik), mRNA [NM_	NM_025765	-1.04102
Mus musculus integrin beta 2-like (Itgb2l), mRNA [NM_008405]	NM_008405	1.00349
Mus musculus RIKEN cDNA 9430067K14 gene (9430067K14Rik), mRNA [NM_	NM_175509	1.09722

spermatogenic Zip 1	NM_030237	1.02816
Calcineurin binding protein 1	AK078480	1.11173
RIKEN cDNA 9130417I07 gene	AK018683	-1.14881
Mus musculus GTP binding protein 1 (Gtpbp1), mRNA [NM_013818]	NM_013818	-1.00368
Phosphodiesterase 11A	AK018171	-1.15009
Mus musculus sarcoglycan, epsilon (Sgce), mRNA [NM_011360]	NM_011360	-1.31436
RIKEN cDNA 2900064A13 gene	AK033552	-1.76648
Mus musculus solute carrier family 12, member 3 (Slc12a3), mRNA [NM_01941	NM_019415	-1.0545
Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 14c (Ppp1r1	NM_133485	1.28395
Mus musculus peroxisome biogenesis factor 7 (Pex7), mRNA [NM_008822]	NM_008822	-1.44619
Mus musculus 6-pyruvoyl-tetrahydropterin synthase (Pts), mRNA [NM_011220]	NM_011220	-1.38449
Mus musculus glutathione peroxidase 2 (Gpx2), mRNA [NM_030677]	NM_030677	1.05333
Mus musculus Btg3 associated nuclear protein (Banp), mRNA [NM_016812]	NM_016812	-1.1189
Mus musculus interleukin 3 receptor, alpha chain (Il3ra), mRNA [NM_008369]	NM_008369	1.36524
Mus musculus olfactory receptor 801 (Olfr801), mRNA [NM_146285]	NM_146285	1.01837
Mus musculus RIKEN cDNA 8430437G11 gene (8430437G11Rik), mRNA [NM_	NM_028990	-1.06808
Mus musculus RIKEN cDNA 0610009I22 gene (0610009I22Rik), mRNA [NM_0	NM_025646	-1.09382
Mus musculus olfactory receptor 66 (Olfr66), mRNA [NM_013618]	NM_013618	1.03705
RIKEN cDNA 3300002A11 gene	AK014365	-1.01975
Mus musculus RIKEN cDNA 4930429O20 gene (4930429O20Rik), mRNA [NM_	NM_029025	1.00677
Mus musculus kinesin family member 22 (Kif22), mRNA [NM_145588]	NM_145588	1.16597
Mus musculus agrin (Agrn), mRNA [NM_021604]	NM_021604	-1.23745
Mus musculus multiple endocrine neoplasia 1 (Men1), mRNA [NM_008583]	NM_008583	1.28449
Mus musculus chemokine (C-X-C motif) ligand 10 (Cxcl10), mRNA [NM_02127	NM_021274	-1.54309
Mus musculus ring finger protein 24 (Rnf24), mRNA [NM_178607]	NM_178607	1.00924
hypothetical Glycine-rich region/Cysteine-rich region/DnaJ central domain (CXXC	XGXG)/4Fe-4	-1.05369
Mus musculus periplakin (Ppl), mRNA [NM_008909]	NM_008909	1.02554
Mus musculus PHD finger protein 10 (Phf10), mRNA [NM_024250]	NM_024250	-1.27207
Mus musculus glypican 2 (cerebroglycan) (Gpc2), mRNA [NM_172412]	NM_172412	-1.00826
Mus musculus olfactory receptor 1389 (Olfr1389), mRNA [NM_147066]	NM_147066	-1.02186
Mus musculus potassium channel, subfamily K, member 3 (Kcnk3), mRNA [NM_	NM_010608	1.0097
RIKEN cDNA 8030411F24 gene	AF440735	1.02169
RIKEN cDNA 6430501H15	NM_198118	1.05316
Mus musculus gastrophilin 1 (Gkn1), mRNA [NM_025466]	NM_025466	1.03908
Filamin C, gamma (actin binding protein 280)	AK051985	1.05699
Mus musculus signal recognition particle 19 (Srp19), mRNA [NM_025527]	NM_025527	-1.23974
Mus musculus Abelson helper integration site (Ahi1), mRNA [NM_026203]	NM_026203	-1.14198
Mus musculus RIKEN cDNA A530054K11 gene (A530054K11Rik), mRNA [NM_	NM_183146	1.06371
Mus musculus homeo box D3 (Hoxd3), mRNA [NM_010468]	NM_010468	-1.00081
Mus musculus RIKEN cDNA 9530046H09 gene (9530046H09Rik), mRNA [NM_	NM_145486	-1.11579
Mus musculus RIKEN cDNA 9530008N10 gene (9530008N10Rik), mRNA [NM_	NM_177911	1.04931
Platelet-activating factor receptor	AF004858	-1.07269
Spermine binding protein	AK009834	1.01635
602117243T1 Soares_mammary_gland_NMLMG Mus musculus cDNA clone IV	BF682133	-1.07441
Mus musculus sodium channel, voltage-gated, type X, alpha polypeptide (Scn1	NM_009134	1.0481
Mus musculus RIKEN cDNA 2900064A13 gene (2900064A13Rik), mRNA [NM_	NM_133749	-1.37973
Mus musculus Norrie disease homolog (Ndph), mRNA [NM_010883]	NM_010883	1.03271
Mus musculus syntaxin 18 (Stx18), mRNA [NM_026959]	NM_026959	-1.08438
Mus musculus DNA segment, Chr 11, ERATO Doi 416, expressed (D11E	td416	NM_026479
Hypothetical LOC433022	AK038031	1.04259
RIKEN cDNA 5830411O07 gene	AF001293	1.01396
Mus musculus cofactor required for Sp1 transcriptional activation, subunit 6 (Crs	NM_144933	1

Mus musculus monoacylglycerol O-acyltransferase 1 (Mogat1), mRNA [NM_026713]	NM_026713	-1.0217
Expressed sequence AI450236	AK036382	1.08103
Mus musculus polyadenylate-binding protein-interacting protein 2 (Paip2), mRNA [NM_026420]	NM_026420	-1.6795
Alpha globin regulatory element containing gene	AK086378	1.0548
Mus musculus heat shock protein family, member 7 (cardiovascular) (Hspb7), mRNA [NM_013868]	NM_013868	1.05786
Mus musculus phospholipase A2, group IIE (Pla2g2e), mRNA [NM_012044]	NM_012044	1.0706
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK014870	AK014870	1.05077
Mus musculus RIKEN cDNA 4831416G18 gene (4831416G18Rik), mRNA [NM_172788]	NM_172788	-1.06338
Malic enzyme, supernatant	M29546	-1.20995
Mus musculus phospholipase A2, group VII (platelet-activating factor acetylhydrolase) (PLA2G7C), mRNA [NM_013737]	NM_013737	-1.03295
CDNA sequence BC026657	AK054453	1.05738
Mus musculus ATP-binding cassette, sub-family G (WHITE), member 1 (Abcg1), mRNA [NM_009593]	NM_009593	-1.5606
Mus musculus polypyrimidine tract binding protein 2 (Ptbp2), mRNA [NM_019555]	NM_019555	-1.14568
Mus musculus nuclear receptor co-repressor 2 (Ncor2), mRNA [NM_011424]	NM_011424	-1.05568
Mus musculus insulin-like growth factor 1 (Igf1), mRNA [NM_010512]	NM_010512	-1.03514
Mus musculus RIKEN cDNA B230219I23 gene (B230219I23Rik), mRNA [NM_172455]	NM_172455	1.06107
Unknown		-1.22644
WD repeat domain 33	AK045923	-1.13891
RIKEN cDNA 5730458M16 gene	NM_025422	-1.81928
Potassium inwardly-rectifying channel, subfamily J, member 9	AK007011	1.04327
Mus musculus EBNA1 binding protein 2 (Ebna1bp2), mRNA [NM_026932]	NM_026932	-1.28294
Cdk5 and Abl enzyme substrate 2	BC052789	1.04484
Mus musculus malonyl-CoA decarboxylase (Mlycd), mRNA [NM_019966]	NM_019966	-1.17441
RIKEN cDNA C130098B18 gene	AK036522	1.07125
Mus musculus leucine zipper and CTNNBIP1 domain containing (Lzic), mRNA [NM_026963]	NM_026963	-1.055
Mus musculus CD97 antigen (Cd97), mRNA [NM_011925]	NM_011925	1.16054
Mus musculus split hand/foot deleted gene 1 (Shfdg1), mRNA [NM_009169]	NM_009169	1.01138
RIKEN cDNA 1700058C01 gene	AK029978	1.12608
RIKEN cDNA 4432412L15 gene	AK014493	1.11765
Mus musculus olfactory receptor 1346 (Olfr1346), mRNA [NM_146916]	NM_146916	1.10153
RIKEN cDNA 9330159F19 gene	AK034141	-1.14565
Mus musculus laminin, gamma 1 (Lamc1), mRNA [NM_010683]	NM_010683	1.01307
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked (Ddx3y), mRNA [NM_012008]	NM_012008	-1.4701
Mus musculus immunoglobulin superfamily, member 4C (Igsf4c), mRNA [NM_153112]	NM_153112	-1.04977
Mus musculus cadherin 2 (Cdh2), mRNA [NM_007664]	NM_007664	-1.28534
neuropathy target esterase	NM_015801	1.15273
Mus musculus regenerating islet-derived 2 (Reg2), mRNA [NM_009043]	NM_009043	1.03943
Mus musculus casein kinase 1, alpha 1 (Csnk1a1), mRNA [NM_146087]	NM_146087	-1.14809
Mus musculus jumonji domain containing 1B (Jmjd1b), mRNA [NM_029518]	NM_029518	-1.05088
Mus musculus pleckstrin and Sec7 domain containing 2 (Psd2), mRNA [NM_028707]	NM_028707	1.0776
hypothetical protein 4932415M13	NM_177599	-1.03326
RIKEN cDNA 2310076L09 gene	NM_025874	-1.00593
Mus musculus SPARC related modular calcium binding 2 (Smoc2), mRNA [NM_022315]	NM_022315	-1.04811
RIKEN cDNA 2310015B20 gene	AK009351	1.01741
Killer cell lectin-like receptor family E member 1	AK041224	1.02923
Mus musculus retinitis pigmentosa GTPase regulator (Rpgr), mRNA [NM_011285]	NM_011285	-1.23173
Mus musculus placental growth factor (Pgf), mRNA [NM_008827]	NM_008827	1.17291
Mus musculus interferon regulatory factor 7 (Irf7), mRNA [NM_016850]	NM_016850	1.09244
Mus musculus expressed sequence AI874665 (AI874665), mRNA [NM_178907]	NM_178907	1.02426
Mus musculus RAR-related orphan receptor alpha (Rora), mRNA [NM_013646]	NM_013646	-1.05705
Mus musculus olfactory receptor 181 (Olfr181), mRNA [NM_146999]	NM_146999	1.01164
Mus musculus proprotein convertase subtilisin/kexin type 2 (Pcsk2), mRNA [NM_008792]	NM_008792	1.08704

Expressed sequence AI842788	NM_198616	-1.20782
Mus musculus suppressor of Ty 5 homolog (<i>S. cerevisiae</i>) (Supt5h), mRNA [NM_013676]	NM_013676	1.02023
Mus musculus protease, serine, 25 (Prss25), mRNA [NM_019752]	NM_019752	1.03701
Mus musculus bromodomain containing 7 (Brd7), mRNA [NM_012047]	NM_012047	-1.09491
Sec11-like 1 (<i>S. cerevisiae</i>)	NM_019951	-1.39577
CDNA sequence BC028663	BC028663	-1.00163
Mus musculus nucleolin (Ncl), mRNA [NM_010880]	NM_010880	-1.05602
Mus musculus engulfment and cell motility 2, ced-12 homolog (<i>C. elegans</i>) (Elm)	NM_207705	1.0582
Mus musculus STARD3 N-terminal like (Stard3nl), mRNA [NM_024270]	NM_024270	-1.45445
Mus musculus RIKEN cDNA 1700123K08 gene (1700123K08Rik), mRNA [NM_029693]	NM_029693	1.03196
Mus musculus defensin beta 7 (Defb7), mRNA [NM_139220]	NM_139220	1.15337
RIKEN cDNA A930010C08 gene	AK053689	2.04579
BCL2-associated transcription factor 1	AK016707	-1.07304
RIKEN cDNA 1700041B20 gene	AK028913	-1.11451
Serine (or cysteine) proteinase inhibitor, clade A, member 4, pseudogene 1	BC024071	-1.02609
Mus musculus RIKEN cDNA 1700012B09 gene (1700012B09Rik), mRNA [NM_029306]	NM_029306	-1.34324
Mus musculus enoyl coenzyme A hydratase 1, peroxisomal (Ech1), mRNA [NM_016772]	NM_016772	-1.27712
Mus musculus RIKEN cDNA 2610509H23 gene (2610509H23Rik), mRNA [NM_026518]	NM_026518	-1.49431
Mus musculus E2F transcription factor 4 (E2f4), mRNA [NM_148952]	NM_148952	-1.18526
hypothetical protein MGC47262	NM_172293	1.08585
RIKEN cDNA 1110008E08 gene	AK003565	-1.41445
Mus musculus adenosine deaminase, tRNA-specific 1 (Adat1), mRNA [NM_013925]	NM_013925	1.02636
Mus musculus similar to RNA polymerase II termination factor (LOC280458), mRNA [XM_207781]	XM_207781	-1.26018
Gap junction membrane channel protein beta 6	NM_008128	-1.07013
Mus musculus translocase of inner mitochondrial membrane 10 homolog (yeast)	NM_013896	-1.06999
Septin 3	NM_011889	1.15232
C-type lectin domain family 4, member n	NM_020001	-1.08699
CDNA sequence AK129128	AK079259	-1.06621
Mus musculus 2'-5' oligoadenylate synthetase 1E (Oas1e), mRNA [NM_145210]	NM_145210	1.03377
Mus musculus RIKEN cDNA A530065I17 gene (A530065I17Rik), mRNA [NM_176993]	NM_176993	1.02176
Mus musculus nuclear factor I/A (Nfia), mRNA [NM_010905]	NM_010905	1.21174
Otopetrin 3	AK043266	1.10966
similar to transmembrane protein induced by tumor necrosis factor alpha	BC022593	1.09089
GPI-anchored membrane protein 1	U27838	-1.25541
General transcription factor IIF, polypeptide 1	NM_133801	-1.18681
RAB GTPase activating protein 1-like	AK018430	-1.08109
BTB (POZ) domain containing 7	AK044873	1.01494
RIKEN cDNA A230046K03 gene	AK038582	-1.01085
Myosin, heavy polypeptide 10, non-muscle	NM_175260	1.02245
Mus musculus ADP-ribosyltransferase 3 (Art3), mRNA [NM_181728]	NM_181728	-1.27372
Mus musculus annexin A5 (Anxa5), mRNA [NM_009673]	NM_009673	-1.12754
ST3 beta-galactoside alpha-2,3-sialyltransferase 1	NM_009177	-1.1575
Mus musculus ADP-ribosylation factor-like 2 (Arl2), mRNA [NM_019722]	NM_019722	-1.07221
Mus musculus U1 small nuclear ribonucleoprotein 1C (Snrp1c), mRNA [NM_011432]	NM_011432	-1.04018
Mus musculus retinoblastoma-like 1 (p107) (Rbl1), mRNA [NM_011249]	NM_011249	-1.06293
Mus musculus embryonic ectoderm development (Eed), mRNA [NM_021876]	NM_021876	-1.28869
Mus musculus RIKEN cDNA A230035L05 gene (A230035L05Rik), mRNA [NM_177388]	NM_177388	-1.19167
Euchromatic histone methyltransferase 1	NM_172545	-1.21832
RIKEN cDNA 9330128J19 gene	AK033960	1
Mus musculus WD repeat and SOCS box-containing 1 (Wsb1), mRNA [NM_019653]	NM_019653	-1.23097
Testis specific 10	AF530050	1.03195
RIKEN cDNA 1110003O08 gene	AK003388	-1.04018

Mus musculus a disintegrin and metalloprotease domain 5 (Adam5), mRNA [NM_007401]	NM_007401	1.00248
Mus musculus potassium voltage-gated channel, delayed-rectifier, subfamily S, NM_173417	NM_173417	-1.25066
Mus musculus neutrophil cytosolic factor 2 (Ncf2), mRNA [NM_010877]	NM_010877	-1.25031
Mus musculus glutamic pyruvic transaminase 1, soluble (Gpt1), mRNA [NM_18:NM_182805]	NM_182805	1.14312
Mus musculus cDNA sequence BC026432 (BC026432), mRNA [NM_146202]	NM_146202	-1.38884
esterase 31-like	NM_144511	1.00391
RIKEN cDNA 2900042E01 gene	AK013637	1.0085
Mus musculus expressed sequence R74862 (R74862), mRNA [NM_133790]	NM_133790	1.01975
Mus musculus bromodomain and PHD finger containing, 1 (Brpf1), mRNA [NM_NM_030178]	NM_030178	1.05589
Mus musculus G protein-coupled receptor, family C, group 6, member A (Gprc6.NM_153071)	NM_153071	1.06818
Cytochrome c oxidase subunit VIIb	AK003161	-1.12098
Mus musculus zinc finger protein 536 (Zfp536), mRNA [NM_172385]	NM_172385	1.07478
Mus musculus RIKEN cDNA 2510004L01 gene (2510004L01Rik), mRNA [NM_(NM_021384)]	NM_021384	1.05853
Mus musculus cytochrome P450, 51 (Cyp51), mRNA [NM_020010]	NM_020010	-1.01739
Mus musculus enhancer of zeste homolog 2 (Drosophila) (Ezh2), mRNA [NM_0 NM_007971]	NM_007971	-1.06964
Mus musculus cathepsin Z (Ctsz), mRNA [NM_022325]	NM_022325	1.08696
Mus musculus RIKEN cDNA 1200009A02 gene (1200009A02Rik), mRNA [NM_ NM_028762]	NM_028762	-1.02934
Mus musculus ring finger protein 5 (Rnf5), mRNA [NM_019403]	NM_019403	1.21383
Mus musculus cDNA sequence BC022687 (BC022687), mRNA [NM_145450]	NM_145450	1.014
Mus musculus RIKEN cDNA 9330161F08 gene (9330161F08Rik), mRNA [NM_ NM_145469]	NM_145469	-1.06578
RIKEN cDNA 9530096D07 gene	AK035722	-1.00016
Mus musculus RIKEN cDNA 1110014J05 gene (1110014J05Rik), mRNA [NM_1NM_197940]	NM_197940	1.08153
Mus musculus loss of heterozygosity, 11, chromosomal region 2, gene A homolog NM_172767	NM_172767	-1.3471
8 days embryo whole body cDNA, RIKEN full-length enriched library, clone:573(BB618745)	BB618745	1.11335
Mus musculus diacylglycerol kinase zeta (Dgkz), mRNA [NM_138306]	NM_138306	-1.05856
Mus musculus RIKEN cDNA 4921505C17 gene (4921505C17Rik), mRNA [NM_ NM_030168]	NM_030168	1.00826
Mus musculus cDNA sequence BC003281 (BC003281), mRNA [NM_030253]	NM_030253	-1.18798
Mus musculus olfactory receptor 1109 (Olfr1109), mRNA [NM_146766]	NM_146766	1.03276
Mus musculus similar to Ig gamma-2A chain C region secreted form (B allele) (L XM_354704)	XM_354704	-1.02353
Mus musculus acyl-Coenzyme A binding domain containing 4 (Acbd4), mRNA [NM_025988]	NM_025988	-1.14026
RIKEN cDNA D030011N01 gene	AK083436	1.03155
Mus musculus gamma-aminobutyric acid (GABA-A) transporter 4 (Gabt4), mRNA [NM_172890]	NM_172890	-1.07035
Inhibitor of DNA binding 2	NM_010496	-1.04262
Mus musculus neurotensin (Nts), mRNA [NM_024435]	NM_024435	1.00928
Mus musculus transcription factor 19 (Tcf19), mRNA [NM_025674]	NM_025674	-1.11348
Ring finger protein 167	AK075579	1.05189
Mus musculus Ras association (RalGDS/AF-6) domain family 2 (Rassf2), mRNA [NM_175445]	NM_175445	-1.52248
Mus musculus transmembrane 4 superfamily member 13 (Tm4sf13), mRNA [NM_025359]	NM_025359	-1.11461
Gene model 1313, (NCBI)	BC009664	1.47805
Mus musculus downstream neighbor of SON (Donson), mRNA [NM_021720]	NM_021720	-1.14581
Mus musculus phenylalkylamine Ca ²⁺ antagonist (emopamil) binding protein (E NM_007898)	NM_007898	-1.18877
Amyloid beta (A4) precursor protein-binding, family B, member 2	AK033397	-1.25253
RIKEN cDNA 1700015C17 gene	AK016407	1.10127
Mus musculus RIKEN cDNA 5830432E09 gene (5830432E09Rik), mRNA [XM_ XM_150021]	XM_150021	-1.09801
Mus musculus synaptotagmin-like 1 (Sytl1), mRNA [NM_031393]	NM_031393	1.16969
T-cell receptor beta, variable 13	BC030075	-1.07264
Fibroblast growth factor 2	AK076764	1.26816
RIKEN cDNA D830029A09 gene	AK052897	-1.11663
Mus musculus opioid growth factor receptor (Ogfr), mRNA [NM_031373]	NM_031373	1.29832
Expressed sequence AW495713	AK034394	1.11203
Adult male testis cDNA, RIKEN full-length enriched library, clone:4931432F24 p	AK077006	1.04483
Ethanol induced 2	AK077549	1.13

Mus musculus olfactory receptor 140 (Olfr140), mRNA [NM_020515]	NM_020515	-1.04797
Mus musculus ATPase, H ⁺ /K ⁺ transporting, alpha polypeptide (Atp4a), mRNA [NM_018731]	NM_018731	-1.05576
Mus musculus RIKEN cDNA 4930403L05 gene (4930403L05Rik), mRNA [NM_026128]	NM_026128	1.03905
CDNA sequence BC036718	AK089446	-1.02518
Mus musculus antigen identified by monoclonal antibody MRC OX-2 receptor (MRCox2), mRNA [NM_021325]	NM_021325	-1.68178
Mus musculus gamma-aminobutyric acid (GABA-A) receptor, subunit alpha 4 (GABAAR4), mRNA [NM_010251]	NM_010251	1.02771
RIKEN cDNA 4930502C15 gene	AK076827	1.05984
Mus musculus transmembrane 9 superfamily member 2 (Tm9sf2), mRNA [NM_080556]	NM_080556	-2.05973
Cofactor required for Sp1 transcriptional activation, subunit 3	BC005508	-1.26006
Mus musculus olfactory receptor 1206 (Olfr1206), mRNA [NM_001001810]	NM_001001810	1.10095
Mus musculus Son cell proliferation protein (Son), transcript variant 1, mRNA [NM_178880]	NM_178880	-1.2372
Mus musculus clone MBI-22 miscellaneous RNA, partial sequence.	AF357471	1.10127
Mus musculus orosomucoid 1 (Orm1), mRNA [NM_008768]	NM_008768	-1.03146
Mus musculus RIKEN cDNA 1700001G17 gene (1700001G17Rik), mRNA [NM_026204]	NM_026204	1.16754
Mus musculus RIKEN cDNA A130010J15 gene (A130010J15Rik), mRNA [NM_181048]	NM_181048	-1.04563
Mus musculus asparagine synthetase (Asns), mRNA [NM_012055]	NM_012055	-1.202
Mus musculus docking protein 2 (Dok2), mRNA [NM_010071]	NM_010071	-1.00577
Bol, boule-like (Drosophila)	AF272859	1.01206
Mus musculus TGFB inducible early growth response 1 (Tieg1), mRNA [NM_01013692]	NM_01013692	-1.04146
Zinc finger protein 291	AK049497	1.07413
Mus musculus fibulin 5 (Fbln5), mRNA [NM_011812]	NM_011812	-1.19891
Mus musculus SERTA domain containing 1 (Sertad1), mRNA [NM_018820]	NM_018820	-1.06455
Macrophage scavenger receptor 2	NM_030707	1.05213
Mus musculus olfactory receptor 446 (Olfr446), mRNA [NM_146295]	NM_146295	1.03489
Mus musculus SH3-binding domain glutamic acid-rich protein like (Sh3bgrl), mRNA [NM_019989]	NM_019989	-2.26414
Mus musculus translocase of inner mitochondrial membrane 22 homolog (yeast)	NM_019818	-1.14653
Ubiquitin specific protease 24	AK045043	-1.03873
cytosolic acetyl-CoA hydrolase	NM_028790	1.01248
Mus musculus RIKEN cDNA 4930555I21 gene (4930555I21Rik), mRNA [NM_030189]	NM_030189	1.01071
Mus musculus olfactory receptor 190 (Olfr190), mRNA [NM_146397]	NM_146397	1.04998
Mus musculus RIKEN cDNA A630018G05 gene (A630018G05Rik), mRNA [XM_132483]	XM_132483	1.03222
SLIT-ROBO Rho GTPase activating protein 2	AK084412	1.11852
Mus musculus 11 days embryo whole body cDNA, RIKEN full-length enriched library	AK012570	1.03066
Roundabout homolog 2 (Drosophila)	BC055333	-1.27535
Mus musculus paired-like homeodomain transcription factor 3 (Pitx3), mRNA [NM_008852]	NM_008852	1.26055
Mus musculus collomin (Colm), mRNA [NM_177350]	NM_177350	1
RIKEN cDNA 2610301G19 gene	AK031472	1.11736
Mus musculus dual specificity phosphatase 16 (Dusp16), mRNA [NM_130447]	NM_130447	-1.29934
Mus musculus PDZ and LIM domain 3 (Pdlim3), mRNA [NM_016798]	NM_016798	-1.29967
Mus musculus RIKEN cDNA 1190006A08 gene (1190006A08Rik), mRNA [NM_026881]	NM_026881	-1.57394
Mus musculus testis-specific kinase 2 (Tesk2), mRNA [NM_146151]	NM_146151	-1.10162
Mus musculus zinc finger protein 459 (Zfp459), mRNA [NM_177811]	NM_177811	-1.12283
Mus musculus thioredoxin-like 2 (Txnl2), mRNA [NM_023140]	NM_023140	-1.49301
RIKEN cDNA 9530051K01 gene	AK035461	1.04309
Mus musculus RIKEN cDNA 6430604K15 gene (6430604K15Rik), mRNA [NM_175560]	NM_175560	-1.046
neurotrimin	NM_172290	1.02391
Mus musculus phosphatidylinositol 3-kinase-like 3 (Pdc13), mRNA [NM_026850]	NM_026850	-1.56445
Mus musculus Down syndrome critical region homolog 2 (human) (Dscr2), mRNA [NM_019537]	NM_019537	-1.4476
Mus musculus multimerin 2 (Mmrn2), mRNA [NM_153127]	NM_153127	-1.04467
Transmembrane protein 23	NM_144792	1.02052
RIKEN cDNA 4933425I22 gene	AK043136	-1.01596
RIKEN cDNA 2210003I03 gene	AK008654	1.11129

RIKEN cDNA D030011O10 gene	AK079183	1.12177
Granule cell antiserum positive 14	AK033266	1.03816
Mus musculus scratch homolog 1, zinc finger protein (Drosophila) (Scrt1), mRNA [NM_130893]		1.167
Mus musculus protease, serine, 12 neurotrypsin (motopsin) (Prss12), mRNA [NM_008939]		-1.23354
Mus musculus peter pan homolog (Drosophila) (Ppan), mRNA [NM_145610]	NM_145610	-1.02912
Mus musculus RAB23, member RAS oncogene family (Rab23), mRNA [NM_008999]	NM_008999	1.1638
Mus musculus synaptogyrin 3 (Syng3), mRNA [NM_011522]	NM_011522	1.22258
Mus musculus potassium channel, subfamily K, member 13 (Kcnk13), mRNA [NM_146037]	NM_146037	1.03141
Mus musculus RNA binding motif protein 14 (Rbm14), mRNA [NM_019869]	NM_019869	-1.06448
Histone deacetylase 9	AF235053	1.13351
Mus musculus ankyrin repeat domain 10 (Ankrd10), mRNA [NM_133971]	NM_133971	-1.0565
Mus musculus fatty acid binding protein 7, brain (Fabp7), mRNA [NM_021272]	NM_021272	-1.05829
Mus musculus phospholipase C-like 2 (Plcl2), mRNA [NM_013880]	NM_013880	-1.13452
Mus musculus ubiquitin-conjugating enzyme E2E 2 (UBC4/5 homolog, yeast) (Ubc4/5), mRNA [NM_144839]	NM_144839	-1.25627
Mus musculus RIKEN cDNA C230094B15 gene (C230094B15Rik), mRNA [NM_172446]	NM_172446	1.06213
Mus musculus hemoglobin X, alpha-like embryonic chain in Hba complex (Hba-X), mRNA [NM_010405]	NM_010405	1.05649
Mus musculus 2'-5' oligoadenylate synthetase 2 (Oas2), mRNA [NM_145227]	NM_145227	-1.05927
Mus musculus death-associated kinase 3 (Dapk3), mRNA [NM_007828]	NM_007828	1.09216
Congenital dyserythropoietic anemia, type I (human)	AK012069	-1.05639
Mus musculus RIKEN cDNA A730037L19 gene (A730037L19Rik), mRNA [NM_177112]	NM_177112	1.04582
RIKEN cDNA 0610007C21 gene	NM_212470	-1.41127
Mus musculus expressed sequence AI450757 (AI450757), mRNA [NM_172592]	NM_172592	-1.49344
Dedicator of cytokinesis 11	AK017170	-1.22052
Cytochrome b, ascorbate dependent 3	NM_201351	-1.1364
Mus musculus immunoglobulin superfamily, member 3 (Igsf3), mRNA [NM_207205]	NM_207205	1.10438
Mus musculus peripherin 1 (Prph1), mRNA [NM_013639]	NM_013639	1.03916
Mus musculus RIKEN cDNA 1700067P10 gene (1700067P10Rik), mRNA [NM_026625]	NM_026625	1.02141
Mus musculus retinoic acid early transcript 1, alpha (Raet1a), mRNA [NM_009016]	NM_009016	1.07454
Mus musculus RIKEN cDNA 6030411F23 gene (6030411F23Rik), mRNA [NM_133983]	NM_133983	1.05568
Mus musculus kin of IRRE like 1 (Drosophila) (Kirrel1), mRNA [NM_130867]	NM_130867	-1.06283
hypothetical protein C630049M13	NM_172832	-1.01322
Mus musculus ornithine decarboxylase antizyme 3 (Oaz3), mRNA [NM_016901]	NM_016901	1.06963
Mus musculus serine (or cysteine) proteinase inhibitor, clade B, member 9d (SerpinB9), mRNA [NM_011460]	NM_011460	1.08479
Mus musculus RIKEN cDNA E430025L02 gene (E430025L02Rik), mRNA [NM_146069]	NM_146069	1.04904
Mus musculus integrin beta 1 (fibronectin receptor beta) (Itgb1), mRNA [NM_01010578]	NM_01010578	-1.35929
Mus musculus transcription factor AP-2 beta (Tcfap2b), mRNA [NM_009334]	NM_009334	1.98571
Mus musculus ubiquitin carboxy-terminal hydrolase L1 (Uchl1), mRNA [NM_0111670]	NM_0111670	-1.10774
Mus musculus cDNA sequence BC003993 (BC003993), mRNA [NM_030560]	NM_030560	-1.21862
Mus musculus similar to zinc finger protein 97 (LOC382161), mRNA [XM_356261]	XM_356261	-1.53321
Mus musculus histocompatibility 28 (H28), mRNA [NM_031367]	NM_031367	1.23132
Mus musculus keratin complex 1, acidic, gene 18 (Krt1-18), mRNA [NM_010664]	NM_010664	-1.07505
Mus musculus DNA segment, Chr 13, Wayne State University 50, expressed (D13W50), mRNA [NM_138596]	NM_138596	-1.22191
Mus musculus RIKEN cDNA A930041G11 gene (A930041G11Rik), mRNA [NM_177033]	NM_177033	-1.04434
Mus musculus olfactory receptor 284 (Olfr284), mRNA [NM_146281]	NM_146281	-1.23849
Mus musculus angiomin like 2 (Amotl2), mRNA [NM_019764]	NM_019764	1.04054
soluble adenylyl cyclase	NM_173029	-1.01757
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK015109	AK015109	1.27014
Guanine nucleotide binding protein, alpha 13	BC032937	-1.20378
Huntingtin interacting protein 1	AK011828	1.22348
Mus musculus calcium channel, voltage-dependent, gamma subunit 7 (Cacng7), mRNA [NM_133189]	NM_133189	1.10052
Envoplakin	AK007353	-1.0311
Mus musculus expressed sequence C78541 (C78541), mRNA [NM_133800]	NM_133800	-1.00702

Mus musculus endothelin converting enzyme 2 (Ece2), transcript variant 2b-2, n	NM_139293	-1.01896
Mus musculus olfactory receptor 481 (Olf481), mRNA [NM_146925]	NM_146925	1.03366
Mus musculus solute carrier organic anion transporter family, member 1a5 (Slcc	NM_130861	1.01892
Mus musculus chaperonin subunit 4 (delta) (Cct4), mRNA [NM_009837]	NM_009837	-1.35343
Mus musculus RIKEN cDNA 1810012I05 gene (1810012I05Rik), mRNA [NM_178027]	NM_178027	-1.0402
Mus musculus defender against cell death 1 (Dad1), mRNA [NM_010015]	NM_010015	-1.02136
Mus musculus chemokine-like factor super family 8 (Cklsf8), mRNA [NM_027294]	NM_027294	-1.17692
Expressed sequence AI790205	AK038075	1.06846
Zinc fingerprotein 618	AK012848	1.02696
Mus musculus B-cell CLL/lymphoma 7B (Bcl7b), mRNA [NM_009745]	NM_009745	1.13249
Mus musculus RIKEN cDNA 1600012K10 gene (1600012K10Rik), mRNA [NM_025905]	NM_025905	1.03508
Mus musculus calyntenin 2 (Clstn2), mRNA [NM_022319]	NM_022319	1.03698
Mus musculus angiotensin II, type I receptor-associated protein (Agtrap), mRNA	NM_009642	1.04896
Mus musculus hydroxyacid oxidase 1, liver (Hao1), mRNA [NM_010403]	NM_010403	1.0658
Mus musculus pleiomorphic adenoma gene-like 1 (Plagl1), mRNA [NM_009538]	NM_009538	1.03111
Oxidative-stress responsive 1	AK031790	-1.04524
Mus musculus mitochondrial ribosomal protein S5 (Mrps5), mRNA [NM_029963]	NM_029963	1.04543
Protein kinase, lysine deficient 1	AK172935	1.04714
RIKEN cDNA C030011O14 gene	AK083909	-1.45533
Mus musculus basic, immunoglobulin-like variable motif containing (Bivm), mRNA	NM_144558	-1.05098
Mus musculus hexokinase 2 (Hk2), mRNA [NM_013820]	NM_013820	-1.33024
Transmembrane 7 superfamily member 3	AK010720	-1.02933
Solute carrier family 5 (inositol transporters), member 3	NM_017391	-1.07546
Mus musculus trafficking protein particle complex 4 (Trappc4), mRNA [NM_021789]	NM_021789	-1.36511
T-complex-associated testis expressed 2	U46151	1.13411
Protein phosphatase 1E (PP2C domain containing)	AK036583	-1.11529
Mus musculus cDNA sequence BC025816 (BC025816), mRNA [NM_146219]	NM_146219	1.10873
Mus musculus sulfatase 1 (Sulf1), mRNA [NM_172294]	NM_172294	-1.14468
Mus musculus calcium regulated heat stable protein 1 (Carhsp1), mRNA [NM_025821]	NM_025821	-1.09254
Unknown		1.04228
Mus musculus Ras association (RalGDS/AF-6) domain family 4 (Rassf4), mRNA	NM_178045	1.01355
G protein-coupled receptor 123	AB096262	-1.00836
Mus musculus mitogen activated protein kinase 8 (Mapk8), mRNA [NM_016700]	NM_016700	-1.02257
Mus musculus RIKEN cDNA 2700085E05 gene (2700085E05Rik), mRNA [NM_026029]	NM_026029	-1.19981
hypothetical protein A530026G17	AK040806	-1.08425
Mus musculus tissue specific transplantation antigen P35B (Tsta3), mRNA [NM_031201]	NM_031201	1.01181
Activating transcription factor 7	AK020698	1.05305
Mus musculus similar to TATA element modulatory factor 1 (LOC232286), mRNA	XM_132740	-1.18114
Mus musculus adult male hippocampus cDNA, RIKEN full-length enriched library	AK013499	-1.03647
Mus musculus RIKEN cDNA 2810449C13 gene (2810449C13Rik), mRNA [NM_028344]	NM_028344	-1.08461
Mus musculus vacuolar protein sorting 33B (yeast) (Vps33b), mRNA [NM_178070]	NM_178070	1.03712
Cytochrome P450, family 20, subfamily A, polypeptide 1	AK053388	-1.2046
Mus musculus integrin alpha 8 (Itga8), mRNA [NM_001001309]	NM_001001309	-1.18966
Mus musculus acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-CoA	NM_177470	-1.23964
Mus musculus RIKEN cDNA 1300004G08 gene (1300004G08Rik), mRNA [NM_028789]	NM_028789	1.13425
Mus musculus wingless-related MMTV integration site 3A (Wnt3a), mRNA [NM_009522]	NM_009522	-1.02826
Mus musculus CTD (carboxy-terminal domain, RNA polymerase II, polypeptide	NM_153088	-1.06612
Mus musculus RIKEN cDNA 3110062M04 gene (3110062M04Rik), mRNA [NM_199145]	NM_199145	1.22712
Mus musculus ELOVL family member 5, elongation of long chain fatty acids (yeast)	NM_134255	-1.55192
Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system)	NM_016972	-1.04393
RIKEN cDNA 2810407L07 gene	AK010853	-1.03033
Mus musculus acylpeptide hydrolase (Apeh), mRNA [NM_146226]	NM_146226	1.0029

Mus musculus DNA segment, Chr 8, ERATO Doi 319, expressed (D8Ertd319e),	NM_026792	-1.02856
Mus musculus dynactin 2 (Dctn2), mRNA [NM_027151]	NM_027151	1.28444
Mus musculus olfactory receptor 653 (Olfr653), mRNA [NM_147074]	NM_147074	1.07026
RIKEN cDNA 5730409E15 gene	AK041760	-1.03135
Mus musculus aquaporin 1 (Aqp1), mRNA [NM_007472]	NM_007472	-1.42199
Mus musculus RIKEN cDNA 1600014C10 gene (1600014C10Rik), mRNA [NM_028166]	NM_028166	-1.00137
Mus musculus vascular cell adhesion molecule 1 (Vcam1), mRNA [NM_011693]	NM_011693	-1.28673
LOC436015	AK044960	1.14644
Mus musculus olfactory receptor 17 (Olfr17), mRNA [NM_020598]	NM_020598	1.15229
UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransf.	AK084671	1.00421
Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 38 (Dhx38), mRNA [NM_178380]	NM_178380	-1.02557
G protein-coupled receptor 103	AK040516	1.01902
Mus musculus neuropeptide Y receptor Y1 (Npy1r), mRNA [NM_010934]	NM_010934	1.09754
M.musculus mRNA for transcription factor, Lbx1.	X90829	1.02974
Mus musculus GATA binding protein 5 (Gata5), mRNA [NM_008093]	NM_008093	1.14105
Mus musculus mannosidase 2, alpha B2 (Man2b2), mRNA [NM_008550]	NM_008550	-1.03508
Mus musculus bone morphogenetic protein 8a (Bmp8a), mRNA [NM_007558]	NM_007558	-1.13699
Mus musculus cofactor required for Sp1 transcriptional activation, subunit 7 (Cr	NM_027485	-1.06325
Mus musculus RIKEN cDNA 3010001K23 gene (3010001K23Rik), mRNA [NM_028223]	NM_028223	-1.10674
Mus musculus RIKEN cDNA 8430420C20 gene (8430420C20Rik), mRNA [NM_145586]	NM_145586	-1.28955
Mus musculus hypothetical protein E130310N06 (E130310N06), mRNA [NM_172964]	NM_172964	1.15414
Mus musculus glutamate receptor, ionotropic, NMDA2D (epsilon 4) (Grin2d), mF	NM_008172	2.80213
Aldo-keto reductase family 1, member B3 (aldose reductase)	AK048715	1.08152
Mus musculus erythropoietin receptor (Epor), mRNA [NM_010149]	NM_010149	1.00305
Mus musculus RIKEN cDNA 2900046G09 gene (2900046G09Rik), mRNA [NM_133778]	NM_133778	-1.10563
Mus musculus guanine nucleotide binding protein (G protein), gamma 1 subunit	NM_010314	1.14277
Mus musculus RIKEN cDNA B230219D22 gene (B230219D22Rik), mRNA [NM_181278]	NM_181278	-1.92826
Mus musculus expressed sequence AW545966 (AW545966), mRNA [NM_177771]	NM_177771	-1.04256
CDNA sequence BC033915	AK017789	-1.00638
Mus musculus RIKEN cDNA 2610510D13 gene (2610510D13Rik), transcript va	NM_198090	-1.48577
Mus musculus lipase, hormone sensitive (Lipe), mRNA [NM_010719]	NM_010719	1.13278
Mus musculus RAB1, member RAS oncogene family (Rab1), mRNA [NM_008996]	NM_008996	-1.27089
Mus musculus growth arrest specific 6 (Gas6), mRNA [NM_019521]	NM_019521	-1.14959
Heat shock protein 1, alpha	AK031349	1.00179
hypothetical protein A430110N23	NM_173008	1.04736
Immunoglobulin (CD79A) binding protein 1	L31652	-1.23401
Mus musculus vomeronasal 1 receptor, D6 (V1rd6), mRNA [NM_030738]	NM_030738	1.06802
Mus musculus nuclear factor of kappa light polypeptide gene enhancer in B-cell:	NM_010909	-1.03586
Mus musculus G protein-coupled receptor 20 (Gpr20), mRNA [NM_173365]	NM_173365	1.01455
Mus musculus phorbol-12-myristate-13-acetate-induced protein 1 (Pmaip1), mR	NM_021451	-1.71969
Mus musculus F-box only protein 21 (Fbxo21), mRNA [NM_145564]	NM_145564	-1.11788
RIKEN cDNA 1110006G14 gene	AK003497	1.0028
Hypothetical protein A530028O18	AK037656	-1.11162
Mus musculus EMI domain containing 2 (Emid2), mRNA [NM_024474]	NM_024474	1.01067
Mus musculus olfactory receptor 691 (Olfr691), mRNA [NM_147061]	NM_147061	1.05844
Mus musculus serine/threonine kinase receptor associated protein (Strap), mRN	NM_011499	-1.12836
Unknown		-1.25063
Mus musculus solute carrier family 11 (proton-coupled divalent metal ion transp	NM_013612	-1.03013
Mus musculus Iroquois related homeobox 6 (Drosophila) (Irx6), mRNA [NM_022428]	NM_022428	-1.00273
Mus musculus pregnancy specific glycoprotein 18 (Psg18), mRNA [NM_011963]	NM_011963	1.06458
Mus musculus RIKEN cDNA 4930429A22 gene (4930429A22Rik), mRNA [NM_153530]	NM_153530	1.18205
Mus musculus bone morphogenetic protein 4 (Bmp4), mRNA [NM_007554]	NM_007554	1.13851

RIKEN cDNA 9530057J20 gene	AK020613	-1.03241
Mus musculus translocase of inner mitochondrial membrane 8 homolog a (yeas	NM_013898	-1.52572
Mus musculus importin 4 (Ipo4), mRNA [NM_024267]	NM_024267	-1.20856
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:	AK005920	-1.01457
Mus musculus ankyrin repeat domain 25 (Ankrd25), mRNA [NM_145611]	NM_145611	1.10443
Mus musculus G protein-coupled receptor, family C, group 5, member C (Gprc5	NM_147217	-1.03874
Mus musculus TAF5 RNA polymerase II, TATA box binding protein (TBP)-assoc	NM_177342	-1.11571
Mus musculus mitochondrial ribosomal protein L3 (Mrpl3), mRNA [NM_053159]	NM_053159	-1.0405
Mus musculus cDNA sequence BC003251 (BC003251), mRNA [NM_024480]	NM_024480	1.16677
Mus musculus expressed sequence AI325941 (AI325941), mRNA [NM_178900]	NM_178900	-1.01431
Mus musculus tetratricopeptide repeat domain 7 (Ttc7), mRNA [NM_028639]	NM_028639	-1.17002
Mus musculus RIKEN cDNA 2610305D13 gene (2610305D13Rik), mRNA [NM_	NM_145078	-1.20246
Mus musculus toll-like receptor 2 (Tlr2), mRNA [NM_011905]	NM_011905	-1.16751
SHQ1 homolog (S. cerevisiae)	AK012978	-1.02252
hypothetical protein A830008O07	NM_177819	1.00251
Mus musculus tryptophan 2,3-dioxygenase (Tdo2), mRNA [NM_019911]	NM_019911	1.04511
Expressed sequence AI875199	NM_153591	-1.02104
Mus musculus polymerase (DNA directed), gamma (Polg), mRNA [NM_017462]	NM_017462	-1.01824
Mus musculus GTP binding protein (gene overexpressed in skeletal muscle) (G	NM_010276	-1.62596
Tenascin C	AK048765	-1.0278
Mus musculus phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (Pik4c	NM_00100198	1.01946
Purkinje cell protein 4-like 1	AY304481	1.01819
fibronectin leucine rich transmembrane protein 2	NM_201518	1.00732
RE1-silencing transcription factor	AK011349	-1.25936
RIKEN cDNA 4930463O16 gene	AK015500	1.06294
Mus musculus solute carrier family 39 (zinc transporter), member 4 (Slc39a4), m	NM_028064	-1.03054
Mus musculus olfactory receptor 1 (Olfr1), mRNA [NM_146921]	NM_146921	1.07622
Unknown		1.03186
Mus musculus RIKEN cDNA 4933400C05 gene (4933400C05Rik), mRNA [NM_	NM_177801	1.18272
Actinin, alpha 1	BC003232	1.15238
Mus musculus hormonally upregulated Neu-associated kinase (Hunk), mRNA [N	NM_015755	-1.25364
RIKEN cDNA 1700013G10 gene	AK005948	1.06924
Mus musculus expressed sequence AA545217 (AA545217), mRNA [NM_01372	NM_013726	-1.12306
Amyloid beta (A4) precursor protein	M18373	-2.04148
Mus musculus zinc finger protein 82 (Zfp82), mRNA [NM_177889]	NM_177889	1.03913
Mus musculus mannosidase 2, alpha 1 (Man2a1), mRNA [NM_008549]	NM_008549	-1.51223
Solute carrier family 16 (monocarboxylic acid transporters), member 14	AK049846	1
Mus musculus open reading frame 31 (ORF31), mRNA [NM_030890]	NM_030890	1.12469
Mus musculus syntrophin, acidic 1 (Snta1), mRNA [NM_009228]	NM_009228	1.01162
Mus musculus RWD domain containing 1 (Rwdd1), mRNA [NM_025614]	NM_025614	-1.78057
Mus musculus l(3)mbt-like 3 (Drosophila) (L3mbtl3), mRNA [NM_172787]	NM_172787	1.1491
Mus musculus CDC42 effector protein (Rho GTPase binding) 5 (Cdc42ep5), mF	NM_021454	1.02446
RIKEN cDNA 2610524G07 gene	AK002846	1.14488
Mus musculus RIKEN cDNA 1110001J12 gene (1110001J12Rik), mRNA [NM_	NM_027922	-1.03557
Mus musculus dihydropyrimidinase-like 2 (Dpysl2), mRNA [NM_009955]	NM_009955	-1.01652
Mus musculus RIKEN cDNA 2610044O15 gene (2610044O15Rik), mRNA [NM_	NM_153780	-1.43226
7 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:A73	AK042789	-1.31244
Dispatched homolog 2 (Drosophila)	AK036480	-1.04722
Mus musculus minichromosome maintenance deficient 3 (S. cerevisiae) (Mcm3,	NM_008563	-1.25246
ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit b, isoform 1	BC038662	-1.18697
UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransf.	AK019470	-1.25825
Mus musculus SEC61, gamma subunit (Sec61g), mRNA [NM_011343]	NM_011343	-1.03487

Mus musculus tumor necrosis factor receptor superfamily, member 23 (Tnfrsf23 NM_024290		1.0236
Mus musculus ribosomal protein S6 kinase, polypeptide 2 (Rps6kb2), mRNA [N NM_021485		1.18027
RIKEN cDNA 4930404K22 gene	AK015086	-1.10901
Ryanodine receptor 1, skeletal muscle	AK042482	1.25581
Gene trap ROSA 26, Philippe Soriano	U83174	-1.45639
RIKEN cDNA 4930517O19 gene	AK015818	-1.15973
Mus musculus RIKEN cDNA 9430065N20 gene (9430065N20Rik), mRNA [NM_ NM_175435		1.08443
Mus musculus RIKEN cDNA E130307M08 gene (E130307M08Rik), mRNA [NM NM_026530		-1.22132
Breast cancer 2	NM_009765	-1.36296
Mus musculus secreted protein SST3 (SST3), mRNA [NM_172463]	NM_172463	1.14434
RIKEN cDNA 2310038H17 gene	NM_025964	-1.08413
Mus musculus glutamate oxaloacetate transaminase 1, soluble (Got1), mRNA [I NM_010324		-1.02892
RIKEN cDNA 4933413G19 gene	AK016804	-1.01089
Mus musculus olfactory receptor 347 (Olfr347), mRNA [NM_146943]	NM_146943	1.03393
Mus musculus HLA-B associated transcript 5 (Bat5), mRNA [NM_178592]	NM_178592	1.40361
Mus musculus Bcl-2-related ovarian killer protein (Bok), mRNA [NM_016778]	NM_016778	-1.1632
TRAF2 and NCK interacting kinase	AK021275	1.17534
RIKEN cDNA C330019G07 gene	AK033256	1.07816
CDNA sequence BC042720	AK021165	-1.02833
Protein tyrosine phosphatase, receptor type, D	AK003303	-1.11128
A disintegrin-like and metalloprotease (repolysin type) with thrombospondin typ BC043308		-1.00511
Mus musculus RIKEN cDNA 4732456N10 gene (4732456N10Rik), mRNA [NM_ NM_177717		1.03506
Mus musculus cDNA sequence BC021438 (BC021438), mRNA [NM_145416]	NM_145416	1.03673
Dip3 beta	NM_145220	-1.18467
Mus musculus lunatic fringe gene homolog (Drosophila) (Lfng), mRNA [NM_008 NM_008494		-1.04468
Mus musculus basic helix-loop-helix domain containing, class B3 (Bhlhb3), mRN NM_024469		-1.07035
thrombospondin type 1 domain containing gene	NM_138683	-1.22081
Mus musculus RNA binding motif protein 28 (Rbm28), mRNA [NM_026650]	NM_026650	1.11582
Mus musculus expressed sequence AI115600 (AI115600), mRNA [XM_134902] XM_134902		1.04605
Mus musculus phosphate regulating gene with homologies to endopeptidases o NM_011077		-1.2162
Mus musculus RIKEN cDNA 1700008F21 gene (1700008F21Rik), mRNA [NM_ NM_029292		1.08345
Mus musculus RIKEN cDNA 2010200O16 gene (2010200O16Rik), mRNA [NM_ NM_026198		1.14973
Mus musculus G-protein coupled receptor 3 (Gpr3), mRNA [NM_008154]	NM_008154	1.32992
Mus musculus RIKEN cDNA 9030605E16 gene (9030605E16Rik), mRNA [NM_ NM_029417		1
Mus musculus ubiquitin-conjugating enzyme E2C (Ube2c), mRNA [NM_026785] NM_026785		1.00644
RIKEN cDNA 1700022I11 gene	AK007056	-1.04057
Mus musculus RIKEN cDNA 9330187M14 gene (9330187M14Rik), mRNA [NM_ NM_172583		-1.12974
Mus musculus 0 day neonate head cDNA, RIKEN full-length enriched library, clc AK029296		1.03338
RIKEN cDNA B830021E24 gene	AK034344	1.12709
Mus musculus RIKEN cDNA 2410002M20 gene (2410002M20Rik), mRNA [NM_ NM_172697		-1.35907
Mus musculus polymerase (DNA directed), eta (RAD 30 related) (Polh), mRNA NM_030715		-1.03006
ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminic NM_009180		-1.2073
Mus musculus growth arrest specific 8 (Gas8), mRNA [NM_018855]	NM_018855	1.09946
Pat-12=Pat-12 product [mice, embryonic stem ES cells, mRNA, 2781 nt].	S79539	1.091
Mus musculus RIKEN cDNA 2610028F08 gene (2610028F08Rik), mRNA [NM_ NM_172815		1.03682
Mus musculus protein phosphatase 2a, catalytic subunit, beta isoform (Ppp2cb) NM_017374		-1.41125
Inositol 1,4,5-triphosphate receptor 2	NM_019923	1.00001
Mus musculus CD2-associated protein (Cd2ap), mRNA [NM_009847]	NM_009847	-1.11345
Mus musculus mitochondrial ribosomal protein L50 (Mrpl50), mRNA [NM_1786C NM_178603		-1.45361
Mus musculus histone 2, H4 (Hist2h4), mRNA [NM_033596]	NM_033596	1.28903
Mus musculus adrenergic receptor kinase, beta 2 (Adrbk2), mRNA [NM_17707E NM_177078		1.05672
Mus musculus olfactory receptor 829 (Olfr829), mRNA [NM_147067]	NM_147067	1.09419

Mus musculus potassium voltage-gated channel, shaker-related subfamily, member 1	NM_008417	-1.04652
RIKEN cDNA E130016E03 gene	AK053419	1.0014
Mus musculus contactin 4 (Cntn4), mRNA [NM_173004]	NM_173004	1.07059
Mus musculus RAN binding protein 1 (Ranbp1), mRNA [NM_011239]	NM_011239	-1.25567
4-aminobutyrate aminotransferase	AK083062	1
Mus musculus MAD2 mitotic arrest deficient-like 2 (yeast) (Mad2l2), mRNA [NM_027985]	NM_027985	-1.05191
Mus musculus RIKEN cDNA 4930506D23 gene (4930506D23Rik), mRNA [NM_175215]	NM_175215	-1.02705
Mus musculus olfactory receptor 1356 (Olfr1356), mRNA [NM_146308]	NM_146308	1.0501
Mus musculus expressed sequence AA986860 (AA986860), mRNA [NM_177604]	NM_177604	-1.13611
Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 1	NM_025807	-1.10383
Mus musculus RIKEN cDNA 5730551F12 gene (5730551F12Rik), mRNA [NM_028873]	NM_028873	-1.07153
Mus musculus ubiquitin-conjugating enzyme E2, J2 homolog (yeast) (Ube2j2), mRNA [NM_021402]	NM_021402	-1.03239
Mus musculus protein-tyrosine sulfotransferase 2 (Tpst2), mRNA [NM_009419]	NM_009419	-1.21615
Mus musculus phosphatidylinositol-3-phosphate/phosphatidylinositol 5-kinase, type 1	NM_011086	1.05713
Mus musculus chaperonin subunit 2 (beta) (Cct2), mRNA [NM_007636]	NM_007636	-1.18663
RIKEN cDNA 2410003K15 gene	AK031878	-1.43613
Mus musculus RIKEN cDNA 2310038K02 gene (2310038K02Rik), mRNA [NM_146186]	NM_146186	-1.25421
Distal-less homeobox 6	AF022079	1.06659
Agmatine ureohydrolase (agmatinase)	BC025916	-1.03161
RIKEN cDNA 3110018K12 gene	AK051333	1.01466
Mus musculus SWI/SNF related, matrix associated, actin dependent regulator of transcription 1	NM_009210	1.09629
Mus musculus KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retentive domain 1	NM_025841	-1.19313
Glutaminase 2 (liver, mitochondrial)	AK039618	-1.1805
Mus musculus thymosin-like kinase 2 (Arabidopsis) (Tlk2), mRNA [NM_011903]	NM_011903	-1.09318
Mus musculus caspase 7 (Casp7), mRNA [NM_007611]	NM_007611	-1.45468
Mus musculus glycoprotein, synaptic 2 (Gpsn2), mRNA [NM_134118]	NM_134118	1.05403
Epiregulin	AK019057	1.01003
Mus musculus cDNA sequence AF233884 (AF233884), mRNA [NM_021315]	NM_021315	-1.03721
Mus musculus chloride intracellular channel 3 (Clic3), mRNA [NM_027085]	NM_027085	1.03224
Mus musculus Kruppel-like factor 4 (gut) (Klf4), mRNA [NM_010637]	NM_010637	-1.01974
Mus musculus transmembrane protein 25 (Tmem25), mRNA [NM_027865]	NM_027865	1.29527
Mus musculus TBC1 domain family, member 10 (Tbc1d10), mRNA [NM_134023]	NM_134023	1.09035
hypothetical protein A330042H22	NM_173014	-1.02624
Mus musculus RIKEN cDNA 2610204K03 gene (2610204K03Rik), mRNA [NM_172596]	NM_172596	1.02952
Mus musculus transmembrane channel-like gene family 1 (Tmc1), mRNA [NM_028953]	NM_028953	1.28945
Mus musculus 8 days embryo whole body cDNA, RIKEN full-length enriched library clone 17866	AK017866	1.29627
Mus musculus ribose 5-phosphate isomerase A (Rpia), mRNA [NM_009075]	NM_009075	-1.32158
RIKEN cDNA 5730557B15 gene	AK089667	1.02306
UDP-glucose ceramide glucosyltransferase-like 1	AK044321	1.01671
Mus musculus development and differentiation enhancing (Ddef1), mRNA [NM_010026]	NM_010026	1.00812
Mus musculus RIKEN cDNA 2310067G05 gene (2310067G05Rik), mRNA [NM_025877]	NM_025877	-1.11843
Mus musculus olfactory receptor 769 (Olfr769), mRNA [NM_146267]	NM_146267	1.00658
Mus musculus mRNA for RCK, complete cds.	D50494	2.58003
Mus musculus inositol (myo)-1(or 4)-monophosphatase 1 (Impa1), mRNA [NM_018864]	NM_018864	-1.81121
Mus musculus CDK5 regulatory subunit associated protein 3 (Cdk5rap3), mRNA [NM_030248]	NM_030248	-1.00568
DnaJ (Hsp40) homolog, subfamily C, member 13	AK029108	1.02235
Mus musculus RIKEN cDNA C730036D15 gene (C730036D15Rik), mRNA [NM_145368]	NM_145368	1.12683
RIKEN cDNA 5530601H04 gene	AK084980	1.02513
Mus musculus single-minded 2 (Sim2), mRNA [NM_011377]	NM_011377	-1.02833
Mus musculus OG9 homeobox gene (Og9x), mRNA [NM_008759]	NM_008759	1.03837
Mus musculus dynein, cytoplasmic, light chain 1 (Dncl1), mRNA [NM_019682]	NM_019682	-1.34097
Mus musculus cyclin-dependent kinase 8 (Cdk8), transcript variant 1, mRNA [NM_153599]	NM_153599	-1.1454

Mus musculus RIKEN cDNA G630013P12 gene (G630013P12Rik), mRNA [XM_127501		1.14732
Mus musculus cullin 4A (Cul4a), mRNA [NM_146207]	NM_146207	-1.18681
Mus musculus flavin containing monooxygenase 2 (Fmo2), mRNA [NM_018881	NM_018881	1.25024
Mus musculus RIKEN cDNA 2310005K03 gene (2310005K03Rik), mRNA [NM_027109	NM_027109	-1.20562
Mus musculus RNA (guanine-9-) methyltransferase domain containing 1 (Rg9m	NM_029092	-1.43647
Checkpoint suppressor 1	AK077921	1.11789
Mus musculus Traf and Tnf receptor associated protein (Ttrap), mRNA [NM_019551	NM_019551	-1.27552
Mus musculus RIKEN cDNA 9130011J15 gene (9130011J15Rik), mRNA [NM_172396	NM_172396	-1.14685
Mus musculus RIKEN cDNA 5730410I19 gene (5730410I19Rik), mRNA [NM_025666	NM_025666	-1.07337
Adenomatosis polyposis coli	AK039745	1.15278
Mus musculus 18-day embryo whole body cDNA, RIKEN full-length enriched lib	AK003987	-1.04798
Mus musculus protein phosphatase 3, catalytic subunit, alpha isoform (Ppp3ca),	NM_008913	-1.27067
Mus musculus ADP-ribosylation factor-like 8 (Arl8), mRNA [NM_029466]	NM_029466	1.01291
Mus musculus RIKEN cDNA 2810004N23 gene (2810004N23Rik), mRNA [NM_025615	NM_025615	-1.15811
Putative neuronal cell adhesion molecule	NM_008988	1.07426
Mus musculus testicular haploid expressed gene (Theg), transcript variant 1, mF	NM_011583	-1.0142
Mus musculus 24-dehydrocholesterol reductase (Dhcr24), mRNA [NM_053272]	NM_053272	1.11193
Mus musculus adult male corpora quadrigemina cDNA, RIKEN full-length enrich	AK045871	-1.62922
Mus musculus melanoma antigen, family L, 2 (Magel2), mRNA [NM_013779]	NM_013779	-1.00104
Mus musculus expressed sequence AI427515 (AI427515), mRNA [NM_173016]	NM_173016	1.01246
Mus musculus RIKEN cDNA E430019B13 gene (E430019B13Rik), mRNA [NM_172842	NM_172842	-1.13973
P21 (CDKN1A)-activated kinase 2	BC029195	-1.11873
Mus musculus phospholemmann precursor, mRNA, complete cds.	AF089734	-1.02399
Pantothenate kinase 2 (Hallervorden-Spatz syndrome)	AK013404	1.0091
Mus musculus olfactory receptor 713 (Olfr713), mRNA [NM_147034]	NM_147034	1.08681
Mus musculus small proline-rich protein 2F (Sprr2f), mRNA [NM_011472]	NM_011472	1.04465
Mus musculus RAB8B, member RAS oncogene family (Rab8b), mRNA [NM_173413	NM_173413	-1.68299
Leucine rich repeat containing 17	AK018071	-1.43656
Mus musculus cDNA sequence BC016198 (BC016198), mRNA [NM_203507]	NM_203507	-1.09327
Mus musculus, clone IMAGE:1244192, mRNA	AI465905	1.02648
Mus musculus RIKEN cDNA C630004H02 gene (C630004H02Rik), mRNA [NM_175454	NM_175454	1.21405
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:	AK015947	1.18142
Mus musculus olfactory receptor 272 (Olfr272), mRNA [NM_146839]	NM_146839	1.06975
Mus musculus RIKEN cDNA 3110001N18 gene (3110001N18Rik), mRNA [NM_026517	NM_026517	-1.12262
hypothetical gene supported by AK048951	AK042699	-1.01405
hypoxia induced gene 1	NM_019814	-1.10483
CDNA sequence BC002230	BC051175	1.00572
Mus musculus DNA segment, Chr 10, ERATO Doi 749, expressed (D10Erd749	NM_025635	-1.34154
Mus musculus histone 1, H2ac (Hist1h2ac), mRNA [NM_178189]	NM_178189	1.15754
Mus musculus growth arrest specific 5 (Gas5), mRNA [NM_013525]	NM_013525	-1.21161
Mus musculus rabaptin, RAB GTPase binding effector protein 1 (Rabep1), mRN	NM_019400	-1.2168
Mus musculus GDP-mannose pyrophosphorylase B (Gmppb), mRNA [NM_177910	NM_177910	-1.01642
Mus musculus lysosomal-associated protein transmembrane 4A (Laptm4a), mR	NM_008640	-1.82164
Mus musculus chemokine (C-C motif) ligand 2 (Ccl2), mRNA [NM_011333]	NM_011333	-1.02291
Mus musculus apolipoprotein D (Apod), mRNA [NM_007470]	NM_007470	-1.13715
Expressed sequence AA673488	AK042050	1.00498
Mus musculus similar to hypothetical protein FLJ11021 similar to splicing factor,	XM_132343	-1.37655
Mus musculus cDNA sequence BC013481 (BC013481), mRNA [NM_139065]	NM_139065	1.29769
Mus musculus killer cell lectin-like receptor subfamily G, member 1 (Klrg1), mRN	NM_016970	1.22069
Mus musculus adult male urinary bladder cDNA, RIKEN full-length enriched libr	AK035553	1.10166
Mus musculus density-regulated protein (Denr), mRNA [NM_026603]	NM_026603	-1.37028
Mus musculus olfactory receptor 134 (Olfr134), mRNA [NM_146832]	NM_146832	1.03463

TNFRSF1A-associated via death domain	BC028542	-1.07843
Mus musculus growth factor, erv1 (<i>S. cerevisiae</i>)-like (augmenter of liver regene	NM_212443	-1.0633
Mus musculus centrin 3 (<i>Cetn3</i>), mRNA [NM_007684]	NM_007684	-1.73109
Mus musculus origin recognition complex, subunit 2-like (<i>S. cerevisiae</i>) (<i>Orc2l</i>),	NM_008765	1.00846
Mus musculus RIKEN cDNA A730041O15 gene (A730041O15Rik), mRNA [NM_	NM_178751	1.04991
RIKEN cDNA 4933437F05 gene	AK017096	1.05855
Zinc finger, HIT domain containing 2	NM_013859	1.1229
Kinesin family member 7	AB001435	1.16734
Mus musculus RIKEN cDNA 5830443L24 gene (5830443L24Rik), mRNA [NM_	(NM_029509	1.02199
Mus musculus acidic (leucine-rich) nuclear phosphoprotein 32 family, member A	NM_009672	-1.1122
Mus musculus RIKEN cDNA C130057D23 gene (C130057D23Rik), mRNA [NM_	NM_177818	1
RIKEN cDNA C430003P19 gene	BC002195	1.06006
Mus musculus ADP-ribosylation factor-like 6 interacting protein 1 (<i>Arl6ip1</i>), mRN	NM_019419	-1.29127
Unknown		1.05864
Mus musculus glucosidase, alpha, acid (<i>Gaa</i>), mRNA [NM_008064]	NM_008064	1.28101
Mus musculus glucosamine-phosphate N-acetyltransferase 1 (<i>Gnpat1</i>), mRNA	NM_019425	-1.34488
Trans-acting transcription factor 1	NM_013672	1.09083
Mus musculus GTPase activating RANGAP domain-like 3 (<i>Garnl3</i>), mRNA [NM_	NM_178888	1.05501
Mus musculus translocase of inner mitochondrial membrane 13 homolog a (<i>yea</i>	NM_013899	-1.27484
Mus musculus Friend leukemia integration 1 (<i>Fli1</i>), mRNA [NM_008026]	NM_008026	1.19013
Mus musculus frizzled-related protein (<i>Frzb</i>), mRNA [NM_011356]	NM_011356	-1.17514
Myocyte enhancer factor 2B	AK009829	-1.11385
Mus musculus olfactory receptor 1218 (<i>Olf1218</i>), mRNA [NM_146818]	NM_146818	-1.02143
RAB12, member RAS oncogene family	M79303	1.11355
CDNA sequence BC011209	NM_145447	-1.2167
Mus musculus similar to <i>Caenorhabditis elegans</i> protein C42C1.9 (<i>Keo4</i>), mRN	NM_145502	-1.06054
Mus musculus RIKEN cDNA 2400006A19 gene (2400006A19Rik), mRNA [NM_	NM_025550	-1.85018
Mus musculus retinoid X receptor beta (<i>Rxb</i>), mRNA [NM_011306]	NM_011306	-1.11001
Mus musculus RIKEN cDNA 4632406N01 gene (4632406N01Rik), mRNA [NM_	NM_026642	1.73677
Mus musculus stress-induced phosphoprotein 1 (<i>Stip1</i>), mRNA [NM_016737]	NM_016737	1.2648
Mus musculus spastic paraplegia 4 homolog (human) (<i>Spg4</i>), mRNA [NM_0169	NM_016962	-1.16867
Mus musculus expressed sequence A1648866 (A1648866), mRNA [NM_207207	NM_207207	-1.00058
Mus musculus olfactory receptor 726 (<i>Olf726</i>), mRNA [NM_146316]	NM_146316	1.04921
RIKEN cDNA 4930520K10 gene	AK016752	-1.01738
Mus musculus cyclic nucleotide gated channel alpha 3 (<i>Cnga3</i>), mRNA [NM_00	NM_009918	1.07067
Mus musculus RIKEN cDNA 1700008E09 gene (1700008E09Rik), mRNA [NM_	NM_027055	1.16066
Mus musculus ubiquitin specific protease 47 (<i>Usp47</i>), mRNA [NM_133758]	NM_133758	1.08782
Mus musculus RuvB-like protein 1 (<i>Ruvbl1</i>), mRNA [NM_019685]	NM_019685	-1.09939
RIKEN cDNA 2410133F24 gene	AK077427	1.11683
Mus musculus eukaryotic translation elongation factor 1 delta (guanine nucleotic	NM_023240	-1.15264
Mus musculus interleukin 18 receptor 1 (<i>Il18r1</i>), mRNA [NM_008365]	NM_008365	1.02503
Mus musculus dopamine beta-hydroxylase-like 1 (<i>Dbhl1</i>), mRNA [NM_139296]	NM_139296	1.19099
Mus musculus Bcl-2 binding component 3 (<i>Bbc3</i>), mRNA [NM_133234]	NM_133234	-1.03296
Mus musculus olfactory receptor 1054 (<i>Olf1054</i>), mRNA [NM_147019]	NM_147019	1.01718
Mus musculus LSM4 homolog, U6 small nuclear RNA associated (<i>S. cerevisiae</i>	NM_015816	-1.10356
Mus musculus annexin A3 (<i>Anxa3</i>), mRNA [NM_013470]	NM_013470	-1.69535
Mus musculus cDNA sequence BC019537 (BC019537), mRNA [NM_183161]	NM_183161	-1.01771
Mus musculus prolactin-like protein C 2 (<i>Prllc2</i>), mRNA [NM_023332]	NM_023332	1.14011
Mus musculus zinc finger, DHH domain containing 17 (<i>Zdhhc17</i>), mRNA [NM_	NM_172554	-1.09363
Mus musculus apolipoprotein E (<i>Apoe</i>), mRNA [NM_009696]	NM_009696	1.16764
Mus musculus cDNA sequence BC024139 (BC024139), mRNA [NM_198172]	NM_198172	1.09946
Mus musculus RIKEN cDNA D430021I08 gene (D430021I08Rik), mRNA [NM_1	NM_199468	-1.02247

Mus musculus cytochrome c oxidase, subunit VI a, polypeptide 1 (Cox6a1), mR	NM_007748	-1.03448
Mus musculus chloride intracellular channel 1 (Clc1), mRNA [NM_033444]	NM_033444	-1.25015
Mus musculus RNA polymerase 1-1 (Rpo1-1), mRNA [NM_009085]	NM_009085	-1.10012
Mus musculus receptor (calcitonin) activity modifying protein 1 (Ramp1), mRNA	NM_016894	-1.13835
Mus musculus RIKEN cDNA 1700025D03 gene (1700025D03Rik), mRNA [NM_	NM_026469	-1.06126
Unknown		1.11347
Mus musculus MAP kinase-activated protein kinase 5 (Mapkapk5), mRNA [NM_	NM_010765	-1.02589
Phosphoglucomutase 5	AK035507	-1.04998
Mus musculus serum amyloid A 4 (Saa4), mRNA [NM_011316]	NM_011316	1.02741
Mus musculus corticotropin releasing hormone receptor 1 (Crhr1), mRNA [NM_	NM_007762	-1.20631
RIKEN cDNA D930017K21 gene	AK044029	1.09316
Mus musculus inner centromere protein (Incenp), mRNA [NM_016692]	NM_016692	-1.10321
Myeloid/lymphoid or mixed-lineage leukemia	L17069	1.023
Mus musculus guanine nucleotide binding protein, beta 5 (Gnb5), mRNA [NM_0	NM_010313	1.02265
Mus musculus zona pellucida 3 receptor (Zp3r), mRNA [NM_009581]	NM_009581	1.07126
Mus musculus metastasis suppressor 1 (Mtss1), mRNA [NM_144800]	NM_144800	-1.10042
Mus musculus HS1 binding protein (Hs1bp1), mRNA [NM_011826]	NM_011826	-1.15269
Mus musculus general transcription factor III C 1 (Gtf3c1), mRNA [NM_207239]	NM_207239	-1.0045
Mus musculus jumonji, AT rich interactive domain 2 (Jarid2), mRNA [NM_02187	NM_021878	-1.00116
Mus musculus DNA cross-link repair 1A, PSO2 homolog (S. cerevisiae) (Dclre1	NM_018831	-1.03509
Mus musculus olfactory receptor 600 (Olfr600), mRNA [NM_147046]	NM_147046	1.12261
Mus musculus clathrin, heavy polypeptide (Hc) (Cltc), mRNA [XM_181312]	XM_181312	-1.69825
Mus musculus interferon alpha family, gene B (Ifnab), mRNA [NM_008336]	NM_008336	1.05554
Mus musculus NADH dehydrogenase (ubiquinone) Fe-S protein 7 (Ndufs7), mR	NM_029272	-1.15691
Mus musculus transformed mouse 3T3 cell double minute 2 (Mdm2), mRNA [NM	NM_010786	-1.0751
Mus musculus growth factor independent 1B (Gfi1b), mRNA [NM_008114]	NM_008114	-1.03703
Tigger transposable element derived 2	BC068272	-1.32564
Mus musculus golgi reassembly stacking protein 2 (Gorasp2), mRNA [NM_0273	NM_027352	-1.11716
Mus musculus olfactory receptor 1223 (Olfr1223), mRNA [NM_146892]	NM_146892	1.03688
Mus musculus ribosomal protein L13 (Rpl13), mRNA [NM_016738]	NM_016738	1.0082
Mus musculus DNA segment, Chr 14, ERATO Doi 449, expressed (D14Ert449	NM_025311	-1.14864
Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library,	AK048370	1.19642
Mus musculus CUB and Sushi multiple domains 1 (Csmd1), mRNA [NM_05317	NM_053171	1.13224
RIKEN cDNA 2310016G11 gene	AK009387	-1.01969
Mus musculus RIKEN cDNA D730001G18 gene (D730001G18Rik), mRNA [NM	NM_172433	1.14044
Mus musculus fer (fms/fps related) protein kinase, testis specific 2 (Fert2), mRN	NM_008000	-1.03709
Mus musculus RIKEN cDNA 1110058L19 gene (1110058L19Rik), mRNA [NM_	NM_026503	-1.32467
Mus musculus fucosyltransferase 1 (Fut1), mRNA [NM_008051]	NM_008051	-1.07211
HECT domain containing 2	AK041629	-1.36211
RIKEN cDNA B930096L08 gene	AK020207	1.13058
Mus musculus adult male diencephalon cDNA, RIKEN full-length enriched librar	AK034273	1.07201
Mus musculus kinesin family member C2 (Kifc2), mRNA [NM_010630]	NM_010630	-1.00642
Gene model 505, (NCBI)	AK033361	1.19827
Mus musculus RIKEN cDNA 5830442J12 gene (5830442J12Rik), mRNA [NM_1	NM_153504	-1.16137
Mus musculus microtubule-associated protein 4 (Mtap4), mRNA [NM_008633]	NM_008633	-1.29818
Mus musculus RIKEN cDNA A630033H20 gene (A630033H20Rik), mRNA [NM_	NM_175442	-1.07689
Mus musculus sema domain, transmembrane domain (TM), and cytoplasmic do	NM_018744	1.21194
Mus musculus butyrobetaine (gamma), 2-oxoglutarate dioxygenase 1 (gamma-t	NM_130452	1.02975
Formin binding protein 1-like	AK044903	-1.09411
Mus musculus interleukin 9 receptor (Il9r), mRNA [NM_008374]	NM_008374	-1.11682
Mus musculus TEA domain family member 1 (Tead1), mRNA [NM_009346]	NM_009346	1.09604
Mus musculus neurotensin receptor 2 (Ntsr2), mRNA [NM_008747]	NM_008747	1.08395

Poliovirus receptor-related 3	NM_021495	-1.36993
RIKEN cDNA 1110038D17 gene	BC043463	1.01859
Ankyrin repeat and SOCS box-containing protein 7	AK046920	1.00489
Mus musculus GLIS family zinc finger 2 (Glis2), mRNA [NM_031184]	NM_031184	1.12277
Similar to WD repeat and HMG-box DNA binding protein 1 (Acidic nucleoplasmic)	AK014062	1.15514
AT rich interactive domain 1B (Swi1 like)	AK030698	-1.26157
Mus musculus RUN and FYVE domain containing 1 (Rufy1), mRNA [NM_172557]	NM_172557	-1.00324
Secernin 1	AK129084	-1.2033
Mus musculus RIKEN cDNA 2210412K09 gene (2210412K09Rik), mRNA [NM_029814]	NM_029814	-1.56444
Mus musculus hypothetical protein D330010C22 (D330010C22), mRNA [XM_131865]	XM_131865	1.04308
Mus musculus ADP-ribosylation factor-like 10C (Arl10c), mRNA [NM_026011]	NM_026011	-1.12541
Mus musculus spire homolog 2 (Drosophila) (Spire2), mRNA [NM_172287]	NM_172287	-1.00656
Ephrin A3	AK020438	1.13755
Kelch domain containing 5	AK048908	1.11323
Mus musculus Rho GTPase activating protein 24 (Arhgap24), mRNA [NM_146161]	NM_146161	-1.22886
Mus musculus RIKEN cDNA 1110014K05 gene (1110014K05Rik), mRNA [NM_028622]	NM_028622	1.0291
Mus musculus progesterone receptor (Pgr), mRNA [NM_008829]	NM_008829	1
Mus musculus RIKEN cDNA 2310046K01 gene (2310046K01Rik), mRNA [NM_027172]	NM_027172	-1.03366
Mus musculus N-acetylglutamate synthase (Nags), mRNA [NM_178053]	NM_178053	1.03032
similar to testase-8	AK015933	1.14612
RIKEN cDNA 3110001I20 gene	AK049924	1.39158
Mus musculus expressed sequence C85492 (C85492), mRNA [NM_153540]	NM_153540	-1.16452
Zinc finger protein 445	BC055684	1.11532
Mus musculus premature ovarian failure 1B (Pof1b), mRNA [NM_181579]	NM_181579	-2.27183
Mus musculus RIKEN cDNA 4833420G17 gene (4833420G17Rik), mRNA [NM_026127]	NM_026127	1.02252
Mus musculus disabled homolog 2 (Drosophila) (Dab2), mRNA [NM_023118]	NM_023118	-1.01666
Mus musculus interferon-related developmental regulator 2 (Ifrd2), mRNA [NM_025903]	NM_025903	-1.24263
Transducin-like enhancer of split 1, homolog of Drosophila E(spl)	U61362	1.10095
Mus musculus RIKEN cDNA 2610312B22 gene (2610312B22Rik), mRNA [NM_026934]	NM_026934	-1.24934
Mus musculus chemokine-like factor super family 3 (Cklsf3), mRNA [NM_024217]	NM_024217	-1.11819
Mus musculus chemokine-like factor super family 4 (Cklsf4), mRNA [NM_153582]	NM_153582	1.0768
Mus musculus protein regulator of cytokinesis 1 (Prc1), mRNA [NM_145150]	NM_145150	1.00128
Mus musculus embryonic testis differentiation (Etd), mRNA [NM_175147]	NM_175147	-1.00142
Mus musculus insulin-like growth factor binding protein 5 (Igfbp5), mRNA [NM_010518]	NM_010518	1.06474
Mus musculus olfactory receptor 378 (Olfr378), mRNA [NM_147024]	NM_147024	1.04529
Melan-A	AK020928	-1.13296
Crystallin, zeta	NM_009968	-1.09597
CDNA sequence BC066140	AK028653	-1.00753
Mus musculus oxysterol binding protein-like 9 (Osbp19), transcript variant 2, mRNA [NM_173350]	NM_173350	-1.23094
Eukaryotic translation initiation factor 3, subunit 10 (theta)	X17373	1.37224
Mus musculus killer cell lectin-like receptor subfamily A, member 22 (Klra22), mRNA [NM_053152]	NM_053152	1.00533
Mus musculus B-cell CLL/lymphoma 11A (zinc finger protein) (Bcl11a), mRNA [NM_016707]	NM_016707	1.03477
Mus musculus abhydrolase domain containing 4 (Abhd4), mRNA [NM_134076]	NM_134076	-1.22786
Mus musculus RIKEN cDNA 2310066I18 gene (2310066I18Rik), mRNA [NM_027346]	NM_027346	-1.20085
Mus musculus adult male diencephalon cDNA, RIKEN full-length enriched library	AK034131	1.19031
Mus musculus RIKEN cDNA 4921528I01 gene (4921528I01Rik), mRNA [NM_027616]	NM_027616	1.00908
Mus musculus lymphocyte antigen 64 (Ly64), mRNA [NM_010739]	NM_010739	-1.01608
Unknown		1.05445
Mus musculus expressed sequence AI159731 (AI159731), mRNA [NM_145551]	NM_145551	1.03244
Mus musculus hydroxyacyl-Coenzyme A dehydrogenase type II (Hadh2), mRNA [NM_016763]	NM_016763	-1.075
Mus musculus matrix metalloproteinase 21 (Mmp21), mRNA [NM_152944]	NM_152944	1.1352
RIKEN cDNA 6620401M08 gene	AK029831	-1.38964

Forkhead box D3	NM_010425	1.07204
Mus musculus paraoxonase 3 (Pon3), mRNA [NM_173006]	NM_173006	-1.43114
Mus musculus methylmalonic aciduria (cobalamin deficiency) type B homolog (r	NM_029956	-1.24083
Mus musculus RIKEN cDNA 4732429D16 gene (4732429D16Rik), mRNA [NM_	NM_145437	1.09901
RIKEN cDNA 1190003M12 gene	AK004474	1.11549
Nudix (nucleoside diphosphate linked moiety X)-type motif 6	AK086019	-1.07943
Mus musculus RIKEN cDNA C530043G21 gene (C530043G21Rik), mRNA [NM	NM_145413	1
Limb region 1	BC016110	-1.07527
Mus musculus claudin 3 (Cldn3), mRNA [NM_009902]	NM_009902	1.09494
Mus musculus integrin alpha M (Itgam), mRNA [NM_008401]	NM_008401	1.02499
Mus musculus cDNA sequence BC068281 (BC068281), mRNA [NM_173416]	NM_173416	-1.07472
Mus musculus prefoldin 2 (Pfdn2), mRNA [NM_011070]	NM_011070	-1.34595
Mus musculus DNA segment, Chr 1, University of California at Los Angeles 4 (	NM_153555	-1.08939
Mus musculus zinc finger, FYVE domain containing 20 (Zfyve20), mRNA [NM_	NM_030081	1.08725
Mus musculus chordin-like 2 (Chrdl2), mRNA [NM_133709]	NM_133709	-1.19239
Mus musculus troponin I, cardiac (Tnni3), mRNA [NM_009406]	NM_009406	-1.27055
Mus musculus cholinergic receptor, nicotinic, alpha polypeptide 6 (Chrna6), mR	NM_021369	-1.12995
Mus musculus inter alpha-trypsin inhibitor, heavy chain 4 (Itih4), mRNA [NM_	NM_018746	1.0831
OLFACTORY RECEPTOR MOR202-9. [Source:RefSeq;Acc:NM_146697] [ENSMUST0000005	NM_146697	1.01253
A disintegrin-like and metalloprotease (reprolysin type) with thrombospondin typ	NM_175506	-1.1572
Mus musculus cathepsin R (Ctsr), mRNA [NM_020284]	NM_020284	1.05041
Mus musculus lysyl-tRNA synthetase (Kars), mRNA [NM_053092]	NM_053092	1.05552
Mus musculus phospholipase A2, group IIA (platelets, synovial fluid) (Pla2g2a),	NM_011108	1.04837
Mus musculus eukaryotic translation initiation factor 4A2 (Eif4a2), mRNA [NM_	NM_013506	-1.71497
Mus musculus interferon-induced protein with tetratricopeptide repeats 1 (Ifit1),	NM_008331	-1.38754
Mus musculus expressed sequence C87576 (C87576), mRNA [NM_172539]	NM_172539	1.0702
RIKEN cDNA 9030411M15 gene	AK050232	1.06641
Mus musculus hairy/enhancer-of-split related with YRPW motif-like (Heyl), mRN	NM_013905	1.1144
RIKEN cDNA D630013G24 gene	AK052650	-1.13331
Mus musculus integrin beta 5 (Itgb5), mRNA [NM_010580]	NM_010580	-1.00094
Mus musculus RIKEN cDNA B930006L02 gene (B930006L02Rik), mRNA [NM_	NM_178764	1.13053
Mus musculus RIKEN cDNA 4930457P18 gene (4930457P18Rik), mRNA [NM_	NM_026648	1.06268
RIKEN cDNA 1700003G18 gene	AK005637	-1.04746
Mus musculus olfactory receptor 142 (Olfr142), mRNA [NM_146984]	NM_146984	-1.05215
Mus musculus putative homeodomain transcription factor 1 (Phtf1), mRNA [NM_	NM_013629	-1.03557
Mus musculus jagged 2 (Jag2), mRNA [NM_010588]	NM_010588	-1.41074
Mus musculus caseinolytic protease X (E.coli) (Clpx), mRNA [NM_011802]	NM_011802	-1.5618
RIKEN cDNA 0610039G24 gene	BC029088	1.09218
Mus musculus protocadherin beta 15 (Pcdhb15), mRNA [NM_053140]	NM_053140	-1.10491
Mus musculus Tnf receptor-associated factor 2 (Traf2), mRNA [NM_009422]	NM_009422	1.27507
Mus musculus H2.0-like homeo box gene (Hlx), mRNA [NM_008250]	NM_008250	1.1467
PHD finger protein 16	AK129091	1.05628
Mus musculus RIKEN cDNA 4921530L21 gene (4921530L21Rik), mRNA [NM_	NM_025733	-1.06851
AY073691 olfactory receptor MOR245-6 {Mus musculus}, complete [TC987878]		-1.004
Mus musculus Mak3 homolog (S. cerevisiae) (Mak3), mRNA [NM_028108]	NM_028108	-1.3858
Mus musculus 9 days embryo whole body cDNA, RIKEN full-length enriched libr	AK050866	1
Mus musculus sirtuin 2 (silent mating type information regulation 2, homolog) 2	NM_022432	1.08288
Mus musculus hemochromatosis (Hfe), mRNA [NM_010424]	NM_010424	1.0532
Mus musculus tenascin XB (Tnxb), mRNA [NM_031176]	NM_031176	-1.09053
RIKEN cDNA 4933434C23 gene	AK017052	1.08943
Mus musculus SH2 domain binding protein 1 (tetratricopeptide repeat containin	NM_009431	1.10928
WD repeat domain 51A	AK011064	1.11895

Mus musculus RIKEN cDNA 4732415M23 gene (4732415M23Rik), mRNA [NM_	NM_177279	1.03853
Mus musculus RIKEN cDNA 2300003P22 gene (2300003P22Rik), mRNA [NM_	NM_026414	1.16254
Phosphatidylethanolamine binding protein	AK031823	-1.09147
Mus musculus RIKEN cDNA 4632412E09 gene (4632412E09Rik), mRNA [NM_	NM_027453	-1.04663
Mus musculus SET and MYND domain containing 1 (Smyd1), mRNA [NM_0097	NM_009762	-1.27758
RIKEN cDNA 1700054N08 gene	AK086180	1.00454
RAN binding protein 6	AK044143	1.04798
Mus musculus histone 1, H4i, mRNA (cDNA clone IMAGE:4205460), partial cds	BC019757	-1.12508
Unknown		1.16703
Mus musculus FSH primary response 1 (Fshprh1), mRNA [NM_145924]	NM_145924	-1.13897
Mus musculus RIKEN cDNA 1500032A09 gene (1500032A09Rik), mRNA [NM_	NM_172673	1.03239
Unknown		-1.15955
UI-M-AJ0-abd-d-05-0-UI.s2 NIH_BMAP_MOB Mus musculus cDNA clone UI-M-	AI840334	1.06622
Mus musculus RIKEN cDNA 2400010D15 gene (2400010D15Rik), mRNA [NM_	NM_029623	1.12781
Cullin 7	BC019645	-1.14177
Janus kinase 3	NM_013564	1.04936
Mus musculus RIKEN cDNA 6330578E17 gene (6330578E17Rik), mRNA [NM_	NM_198006	-1.12365
Mus musculus kininogen 1 (Kng1), mRNA [NM_023125]	NM_023125	-1.09437
Mus musculus dynactin 6 (Dctn6), mRNA [NM_011722]	NM_011722	-1.11737
RIKEN cDNA 0610039P13 gene	AK036568	1.07053
Mus musculus rad and gem related GTP binding protein 2 (Rem2), mRNA [NM_	NM_080726	1.01974
Olfactory receptor 1463	CB174498	1.02699
Mus musculus RIKEN cDNA 1810019J16 gene (1810019J16Rik), mRNA [NM_1	NM_133707	-1.17672
RIKEN cDNA 4631427C17 gene	AB041551	-1.01309
Mus musculus similar to olfactory receptor MOR204-14 (LOC233710), mRNA [X	XM_146031	1.05352
Homeodomain interacting protein kinase 2	AK003718	-1.23941
RIKEN cDNA 4930453N24 gene	AK002578	-1.03746
RIKEN cDNA 4933435A13 gene	AK029866	-1.06695
Mus musculus olfactory receptor 419 (Olfr419), mRNA [NM_146715]	NM_146715	1.05361
Nucleoporin 88	AK028563	-1.39184
Mus musculus B-cell receptor-associated protein 29 (Bcap29), mRNA [NM_007	NM_007530	-1.59318
Mus musculus karyopherin (importin) alpha 1 (Kpna1), mRNA [NM_008465]	NM_008465	-1.14102
Mus musculus N-myristoyltransferase 2 (Nmt2), mRNA [NM_008708]	NM_008708	-1.252
CDNA sequence BC046331	AK129163	-1.8539
CDNA clone IMAGE:3497440, with apparent retained intron	BC016539	-1.05809
Mus musculus Ras association (RalGDS/AF-6) domain family 1 (Rassf1), mRNA	NM_019713	-1.12407
Mus musculus pitrilysin metalloprotease 1 (Pitrm1), mRNA [NM_145131]	NM_145131	-1.6598
PEST-containing nuclear protein	AK003768	-1.34418
Ring finger protein 17	AF285585	1.14285
Aldehyde reductase (aldose reductase)-like 6	AF197127	1.09331
Mus musculus hypothetical protein C730031G17 (C730031G17), mRNA [NM_1	NM_172881	-1.0458
RIKEN cDNA D430042O09 gene	AK052528	-1.00453
Mus musculus RIKEN cDNA B230331L10 gene (B230331L10Rik), mRNA [NM_	NM_172263	-1.41124
Mus musculus MAP/microtubule affinity-regulating kinase 2 (Mark2), mRNA [NM	NM_007928	1.32193
Mus musculus ribonucleic acid binding protein S1 (Rnps1), mRNA [NM_009070	NM_009070	-1.36014
MYC-associated zinc finger protein (purine-binding transcription factor)	L04649	1.10036
RIKEN cDNA 1700045I11 gene	AK006699	-1.02844
Mus musculus RAP2B, member of RAS oncogene family (Rap2b), mRNA [NM_	NM_028712	-1.22595
Sno, strawberry notch homolog 1 (Drosophila)	AK077133	1.03151
Mus musculus stearyl-coenzyme A desaturase 3 (Scd3), mRNA [NM_024450]	NM_024450	1.03447
Mus musculus sialic acid binding Ig-like lectin 5 (Siglec5), mRNA [NM_145581]	NM_145581	-1.05857
Mus musculus activin A receptor, type IC (Acvr1c), mRNA [XM_194020]	XM_194020	-1.00612

Mus musculus serologically defined colon cancer antigen 13 (Stard13), mRNA [NM_146258		-1.15584
Mus musculus deoxyguanosine kinase (Dguok), mRNA [NM_013764]	NM_013764	-1.03733
Olfactory receptor 744	AF121973	1.17515
Mus musculus PHD finger protein 13 (Phf13), mRNA [NM_172705]	NM_172705	-1.14964
Mus musculus RIKEN cDNA 2810432O22 gene (2810432O22Rik), mRNA [NM_NM_144881		-1.04547
Mus musculus F-box and leucine-rich repeat protein 6 (Fbxl6), mRNA [NM_013909	NM_013909	1.14194
T cell receptor gamma chain	X04397	-1.03283
RIKEN cDNA E130113E03 gene	AK053602	1.11107
Mus musculus vomeronasal 1 receptor, B9 (V1rb9), mRNA [NM_053230]	NM_053230	1.11955
Mus musculus POU domain, class 6, transcription factor 1 (Pou6f1), mRNA [NM_NM_010127		-1.0659
Protocadherin beta 12	AK029749	-1.20192
Mus musculus nuclear receptor subfamily 4, group A, member 1 (Nr4a1), mRNA [NM_NM_010444		1.15391
Mus musculus sphingomyelin phosphodiesterase 1, acid lysosomal (Smpd1), mRNA [NM_011421	NM_011421	-1.11103
Mus musculus monocytic adaptor (Mona), mRNA [NM_010815]	NM_010815	1.06726
ZINC FINGER PROTEIN 72; KRAB ZINC FINGER PROTEIN (MZF22). [Source:RefSeq;Acc:NM_009604		-1.23368
Mus musculus cholinergic receptor, nicotinic, gamma polypeptide (Chrng), mRNA [NM_009604	NM_009604	1.00413
Mus musculus tropomodulin 3 (Tmod3), mRNA [NM_016963]	NM_016963	-1.87486
Phosphoribosylformylglycinamide synthase (FGAR amidotransferase)	AK076238	1.03945
Mus musculus D-dopachrome tautomerase (Ddt), mRNA [NM_010027]	NM_010027	-1.20272
Mus musculus xanthine dehydrogenase (Xdh), mRNA [NM_011723]	NM_011723	-1.04645
RIKEN cDNA 9030624G23 gene	AK018572	1.08402
Mus musculus CASP2 and RIPK1 domain containing adaptor with death domain (Casp2ip), mRNA [NM_009950	NM_009950	-1.10491
Mus musculus N-acetylneuraminidase pyruvate lyase (Npl), mRNA [NM_028749]	NM_028749	-1.43018
Mus musculus histone cell cycle regulation defective homolog A (S. cerevisiae) (Hcc1), mRNA [NM_010435	NM_010435	1.02089
Mus musculus adult male cerebellum cDNA, RIKEN full-length enriched library, AK005186	AK005186	1.13314
Mus musculus transmembrane 4 superfamily member 8 (Tm4sf8), mRNA [NM_019793]	NM_019793	-1.52168
Mus musculus stromal cell derived factor 4 (Sdf4), mRNA [NM_011341]	NM_011341	-1.21138
AF110138 homolog of E. coli MttB, a protein involved in folded protein translocation and targeting		1.07697
Glutamate receptor, metabotropic 5	AK078137	1.01985
Mus musculus calneuron 1 (Caln1), mRNA [NM_021371]	NM_021371	1.02627
Mus musculus vomeronasal 1 receptor, H17 (V1rh17), mRNA [NM_145850]	NM_145850	-1.0312
Mus musculus ankyrin repeat and SOCS box-containing protein 11 (Asb11), mRNA [NM_026853	NM_026853	1.03531
mitogen activated protein binding protein interacting protein	NM_031248	-1.02788
RIKEN cDNA 9430069J07 gene	AK007108	1.02342
RIKEN cDNA 1700105P06 gene	AK090385	1.05786
Mus musculus zinc finger RNA binding protein (Zfr), mRNA [NM_011767]	NM_011767	-1.46182
RIKEN cDNA 4930539A06 gene	AK015993	-1.23364
tissue-type vomeronasal neurons putative pheromone receptor V2R2	NM_019918	-1.12086
Mus musculus heparan sulfate (glucosamine) 3-O-sulfotransferase 3A (Hs3st3a), mRNA [NM_178870	NM_178870	-1.13871
Mus musculus glucocorticoid induced transcript 1 (Glcci1), mRNA [NM_133236]	NM_133236	-1.4945
RIKEN cDNA 9430038I01 gene	AK078159	-1.14325
CDNA fis, clone TRACH3017934	AK128979	-1.16248
Mus musculus RIKEN cDNA 1110064N10 gene (1110064N10Rik), mRNA [NM_NM_026396		-1.36037
Mus musculus RIKEN cDNA E330017A01 gene (E330017A01Rik), mRNA [NM_NM_175011		1.01201
Mus musculus RIKEN cDNA 2610511M17 gene (2610511M17Rik), mRNA [NM_NM_028818		-1.19252
Mus musculus tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 1 (Tankyrase1), mRNA [NM_175091	NM_175091	-1.00697
Sortilin-related receptor, LDLR class A repeats-containing	AF031816	-1.01719
Mus musculus RIKEN cDNA 2010316F05 gene (2010316F05Rik), mRNA [NM_NM_026465		-1.44553
Mus musculus anaphase promoting complex subunit 2 (Anapc2), mRNA [NM_175300]	NM_175300	-1.06955
Mus musculus RIKEN cDNA 4933403G14 gene (4933403G14Rik), mRNA [NM_NM_028908		-1.12858
RIKEN cDNA 5730412N02 gene	AK030723	1.01855
Mus musculus RIKEN cDNA 2610028M21 gene (2610028M21Rik), mRNA [NM_NM_172941		-1.19655

Mus musculus proteasome (prosome, macropain) 26S subunit, ATPase, 4 (Psm)	NM_011874	-1.05512
Mus musculus serine/arginine repetitive matrix 1 (Srrm1), mRNA	[NM_016799] NM_016799	1.0504
Mus musculus eukaryotic translation initiation factor 5A (Eif5a), mRNA	[NM_181NM_181582]	1.07206
Mus musculus leucine zipper, putative tumor suppressor 2 (Lzts2), mRNA	[NM_ NM_145503]	1.23743
Purine rich element binding protein B	NM_011221	1.2489
M.musculus mRNA for mitochondrial gene for subunit I of cytochrome c oxidase	X57780	-1.21989
Mus musculus myosin binding protein C, cardiac (Mybpc3), mRNA	[NM_008653NM_008653]	-1.32133
Unknown		1.08546
RIKEN cDNA 2310075E07 gene	AK010169	1.20158
ADP-ribosylation factor-like 10C	AK075941	-1.32211
Mus musculus olfactory receptor 1451 (Olfr1451), mRNA	[NM_146705] NM_146705	-1.04066
Mus musculus vomeronasal 1 receptor, C26 (V1rc26), mRNA	[NM_134181] NM_134181	1.08287
Mus musculus ARP1 actin-related protein 1 homolog B (yeast) (Actr1b), mRNA	NM_146107	1.34215
N-acylsphingosine amidohydrolase (acid ceramidase)-like	NM_025972	1.00364
RIKEN cDNA 4930557B06 gene	AK016157	-1.10555
Carboxyl ester lipase	NM_009885	1.1327
Mus musculus DNA segment, Chr 1, ERATO Doi 622, expressed (D1Ert622e),	NM_133825	-1.13134
Mus musculus RIKEN cDNA 1700034M03 gene (1700034M03Rik), mRNA	[NM_ NM_024260]	-1.20469
Mus musculus seminal vesicle secretion 1 (Svs1), mRNA	[NM_172888] NM_172888	1.01109
Jumonji domain containing 1C	AK077400	-1.20242
Mus musculus RIKEN cDNA A730039N16 gene (A730039N16Rik), mRNA	[NM_ NM_172655]	-1.04711
Mus musculus RIKEN cDNA 4933425F03 gene (4933425F03Rik), mRNA	[NM_ NM_028903]	-1.02905
Mus musculus hypothetical protein 4832428G11 (4832428G11), mRNA	[XM_13XM_136692]	1.00395
Mus musculus zinc ribbon domain containing, 1 (Znr1), mRNA	[NM_023162] NM_023162	-1.10223
Mus musculus 10 days neonate skin cDNA, RIKEN full-length enriched library, c	AK028741	1.04403
Mus musculus Niemann Pick type C2 (Npc2), mRNA	[NM_023409] NM_023409	-1.1689
Mus musculus agouti related protein (Agrp), mRNA	[NM_007427] NM_007427	1.11743
Mus musculus ubiquitin-like 1 (sentrin) activating enzyme E1B (Uble1b), mRNA	NM_016682	1.03378
Mus musculus F-box and leucine-rich repeat protein 8 (Fbxl8), mRNA	[NM_015NM_015821]	1.06413
Mus musculus leucine rich repeat transmembrane neuronal 2 (Lrrtm2), mRNA	[NM_178005]	1.03815
Mus musculus DNA segment, Chr 18, ERATO Doi 653, expressed (D18Ert653)	NM_172631	-1.09486
Mus musculus protein kinase, X-linked (Prkx), mRNA	[NM_016979] NM_016979	-1.02038
Mus musculus ras homolog gene family, member D (Rhod), mRNA	[NM_00748NM_007485]	-1.03923
RIKEN cDNA 4631416L12 gene	AK052121	-1.03134
RIKEN cDNA D730039F16 gene	AK085616	1.00261
Mus musculus vomeronasal 1 receptor, E9 (V1re9), mRNA	[NM_145842] NM_145842	1.02855
Mus musculus gamma-aminobutyric acid (GABA(A)) receptor-associated protein	NM_020590	-1.04022
Mus musculus forkhead box D2 (Foxd2), mRNA	[NM_008593] NM_008593	1.22217
Mus musculus expressed sequence AU040829 (AU040829), mRNA	[NM_1750NM_175003]	-1.0567
Mus musculus peroxisome biogenesis factor 19 (Pex19), mRNA	[NM_023041] NM_023041	1.06063
Mus musculus RIKEN cDNA 4930558O21 gene (4930558O21Rik), mRNA	[NM_ NM_026668]	1.0744
Mus musculus RIKEN cDNA E330007A02 gene (E330007A02Rik), mRNA	[NM_ NM_177690]	1.32823
Mus musculus TNFAIP3 interacting protein 1 (Tnip1), mRNA	[NM_021327] NM_021327	1.03803
RIKEN cDNA 4921511K06 gene	BC006583	-1.01324
Mus musculus glutamic acid decarboxylase 2 (Gad2), mRNA	[NM_008078] NM_008078	1.05747
Mus musculus protein phosphatase 1F (PP2C domain containing) (Ppm1f), mR	NM_176833	-1.05151
Mus musculus RAS protein activator like 1 (GAP1 like) (Rasal1), mRNA	[NM_01NM_013832]	1.00258
Mus musculus adult male pituitary gland cDNA, RIKEN full-length enriched libra	AK019925	1.07141
Mus musculus RIKEN cDNA A930017E24 gene (A930017E24Rik), mRNA	[NM_ NM_177041]	1.07985
Mus musculus similar to lgh-4 protein (LOC380811), mRNA	[XM_354723] XM_354723	1.12731
Mus musculus olfactory receptor 915 (Olfr915), mRNA	[NM_146785] NM_146785	-1.02382
Mus musculus armadillo repeat containing protein (Arcp), mRNA	[NM_028840] NM_028840	-1.30967

Mus musculus 13 days embryo forelimb cDNA, RIKEN full-length enriched library, clone:AK031223	AK031223	1.13397
Ral GEF with PH domain and SH3 binding motif 2	NM_023884	-1.09345
Von Willebrand factor homolog	AK078523	-1.03385
Mus musculus cytochrome P450, family 2, subfamily d, polypeptide 26 (Cyp2d2)	NM_029562	-1.03198
Mus musculus SET and MYND domain containing 3 (Smyd3), mRNA [NM_027118]	NM_027118	-1.1852
RIKEN cDNA 5530401A14 gene	AK017430	-1.05901
DNA segment, Chr 5, ERATO Doi 579, expressed	AK033480	-1.09892
RIKEN cDNA C330018K18 gene	AK090238	1.01864
Mus musculus N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase 1 (Nag1), mRNA [NM_013796]	NM_013796	1.0859
Mus musculus olfactory receptor 447 (Olfr447), mRNA [NM_146988]	NM_146988	1.0489
Mus musculus olfactory receptor 770 (Olfr770), mRNA [NM_146863]	NM_146863	1.05915
Mus musculus harmonin interacting ankyrin repeat containing protein (Harp), mRNA [NM_028085]	NM_028085	1.05825
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:AK007077	AK007077	-1.03875
Mus musculus killer cell lectin-like receptor, subfamily A, member 3 (Klra3), mRNA [NM_010648]	NM_010648	1.04558
Mus musculus F-box and WD-40 domain protein 9 (Fbxw9), mRNA [NM_026791]	NM_026791	1.11658
Mus musculus RIKEN cDNA B430216B18 gene (B430216B18Rik), mRNA [NM_173783]	NM_173783	-1.05131
G protein-coupled receptor 160	AK006330	-1.00851
Mus musculus RIKEN cDNA 4930595M18 gene (4930595M18Rik), mRNA [NM_173435]	NM_173435	1.06173
Mus musculus zinc finger protein 533 (Zfp533), mRNA [NM_178723]	NM_178723	1.06866
Unknown		1.09869
Transmembrane protein 44	AK045675	-1.05613
16 days neonate heart cDNA, RIKEN full-length enriched library, clone:D830019	AK052881	1.1282
Mus musculus ankyrin repeat and SOCS box-containing protein 12 (Asb12), mRNA [NM_080858]	NM_080858	1.1339
Spermatogenesis associated 5-like 1	AK048180	-1.30488
Mus musculus UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2 (Ugt2)	NM_020026	-1.20021
Mus musculus RIKEN cDNA 6430573B13 gene (6430573B13Rik), mRNA [NM_172520]	NM_172520	1.16651
MHC (A.CA/J(H-2K-f) class I antigen	NM_019909	-1.24788
Mus musculus cytoskeleton-associated protein 1 (Ckap1), mRNA [NM_025548]	NM_025548	-1.32911
RIKEN cDNA 2010110O04 gene	BC042780	1.23922
Mus musculus proteasome (prosome, macropain) subunit, beta type 7 (Psmc7), mRNA [NM_011187]	NM_011187	-1.11621
Mus musculus Fas-associated factor 1 (Faf1), mRNA [NM_007983]	NM_007983	-1.0341
Mus musculus cathepsin 3 (Cts3), mRNA [NM_026906]	NM_026906	-1.1637
Mus musculus adult male diencephalon cDNA, RIKEN full-length enriched library, clone:AK034248	AK034248	-1.02682
Mus musculus RIKEN cDNA 2810435D12 gene (2810435D12Rik), mRNA [NM_024257]	NM_024257	-1.10882
Mus musculus ganglioside-induced differentiation-associated protein 1-like 1 (Grip1), mRNA [NM_144891]	NM_144891	1.0548
RE1-silencing transcription factor	NM_011263	-1.11982
tangerin	NM_053252	1.03888
Mus musculus lamin B receptor (Lbr), mRNA [NM_133815]	NM_133815	1.05745
Mus musculus pentatricopeptide repeat domain 1 (Ptdc1), mRNA [NM_133735]	NM_133735	-1.10185
Mus musculus muted (Muted), mRNA [NM_139063]	NM_139063	-1.23218
Mus musculus RIKEN cDNA 1200006O19 gene (1200006O19Rik), mRNA [NM_026164]	NM_026164	-1.75453
Mus musculus SUMO/sentrin specific protease family member 8 (Senp8), mRNA [NM_027838]	NM_027838	-1.07906
Cysteine-rich secretory protein LCCL domain containing 1	NM_031402	1.01978
Mus musculus paired-Ig-like receptor B (Pirb), mRNA [NM_011095]	NM_011095	-1.28602
Mus musculus CDC42 effector protein (Rho GTPase binding) 3 (Cdc42ep3), mRNA [NM_026514]	NM_026514	-1.49937
Adult male olfactory brain cDNA, RIKEN full-length enriched library, clone:64306	AK032580	1.00377
Mus musculus RIKEN cDNA 2310067E08 gene (2310067E08Rik), mRNA [NM_028013]	NM_028013	-1.39087
Mus musculus salivary protein 2 (Spt2), mRNA [NM_009268]	NM_009268	1.04961
Unknown		-1.29866
Transmembrane protein 33	AK009040	-1.4994
Ankyrin repeat domain 23	BC022973	-1.00177
Mus musculus zinc finger protein 37 (Zfp37), mRNA [NM_009554]	NM_009554	-1.11869

RIKEN cDNA 0610010D24 gene	BC063255	-1.33775
ACN9 homolog (<i>S. cerevisiae</i>)	AK016986	-1.00482
Mus musculus tubulointerstitial nephritis antigen (Tinag), mRNA [NM_012033]	NM_012033	-1.10851
Mus musculus interleukin 4 (Il4), mRNA [NM_021283]	NM_021283	1.12888
RIKEN cDNA 9930116O05 gene	AK090370	1.03529
Mus musculus neural proliferation, differentiation and control gene 1 (Npdc1), mRNA [NM_008721]	NM_008721	1.04939
Mus musculus ADP-ribosyltransferase 2b (Art2b), mRNA [NM_019915]	NM_019915	1.18491
Cdc42 guanine nucleotide exchange factor (GEF) 9	AK038840	-1.03257
Mus musculus cell division cycle 37 homolog (<i>S. cerevisiae</i>)-like (Cdc37l), mRNA [NM_025950]	NM_025950	-1.14642
Mus musculus similar to immunoglobulin light chain variable region (LOC38440) (XM_357622)	XM_357622	-1.05142
Mus musculus stromal membrane-associated protein 1 (Smap1), mRNA [NM_028534]	NM_028534	-1.03361
Phosphatase and actin regulator 3	AK005136	1.055
DNA2 DNA replication helicase 2-like (yeast)	BC025182	1.00731
Mus musculus granzyme E (Gzme), mRNA [NM_010373]	NM_010373	-1.03759
RIKEN cDNA 2010001E11 gene	AK008003	-1.12195
Mus musculus retinol binding protein 1, cellular (Rbp1), mRNA [NM_011254]	NM_011254	-1.21546
Mus musculus allograft inflammatory factor 1 (Aif1), mRNA [NM_019467]	NM_019467	-1.24482
Mus musculus lipase, gastric (Lipf), mRNA [NM_026334]	NM_026334	1.1044
CDNA sequence BC019537	AK006122	1.33613
Protein tyrosine phosphatase, non-receptor type 3	X82561	-1.0294
Mus musculus potassium inwardly-rectifying channel, subfamily J, member 6 (Kcnnj6), mRNA [NM_010606]	NM_010606	-1.01445
Mus musculus inositol polyphosphate phosphatase-like 1 (Inpp1), mRNA [NM_010567]	NM_010567	-1.13497
Mus musculus guanylate cyclase 1, soluble, alpha 3 (Gucy1a3), mRNA [NM_021896]	NM_021896	-1.12547
Mus musculus olfactory receptor 1284 (Olfr1284), mRNA [NM_146381]	NM_146381	1.02374
Mus musculus transmembrane 4 superfamily member 11 (Tm4sf11), mRNA [NM_026385]	NM_026385	1.06713
Mus musculus multiple coagulation factor deficiency 2 (Mcf2), mRNA [NM_139295]	NM_139295	-1.34209
Unknown		-1.05422
Mus musculus high mobility group AT-hook 2 (Hmga2), mRNA [NM_010441]	NM_010441	1.05928
Programmed cell death protein 11	AK086428	-1.0678
Mus musculus RIKEN cDNA 2810489O06 gene (2810489O06Rik), mRNA [NM_175386]	NM_175386	-1.68189
Mus musculus apurinic/aprimidinic endonuclease 2 (Apex2), mRNA [NM_029943]	NM_029943	1.06732
Mus musculus expressed sequence AW413431 (AW413431), mRNA [NM_173037]	NM_173037	1.05866
Proteasome (prosome, macropain) subunit, alpha type, 8	AK010717	-1.04892
Mus musculus transcription factor EB (Tcf7l1), mRNA [NM_011549]	NM_011549	1.00108
Mus musculus ribosomal protein L23 (Rpl23), mRNA [NM_022891]	NM_022891	-1.23945
Mus musculus NMDA receptor-regulated gene 1 (Narg1), mRNA [NM_053089]	NM_053089	-1.21551
Mus musculus hairy and enhancer of split 6 (<i>Drosophila</i>) (Hes6), mRNA [NM_019479]	NM_019479	1.07406
Mus musculus platelet derived growth factor, alpha (Pdgfra), mRNA [NM_008808]	NM_008808	1.06217
Mus musculus troponin I, skeletal, slow 1 (Tnni1), mRNA [NM_021467]	NM_021467	1.06456
Mus musculus CDC-like kinase 3 (Clk3), mRNA [NM_007713]	NM_007713	-1.08253
Mus musculus cyclin-dependent kinase inhibitor 1B (P27) (Cdkn1b), mRNA [NM_009875]	NM_009875	1.21087
Mus musculus apoptosis inhibitor 5 (Api5), mRNA [NM_007466]	NM_007466	-1.11836
Transmembrane and coiled coil domains 1	AK028322	-1.05348
Mus musculus RIKEN cDNA 9430086K21 gene (9430086K21Rik), mRNA [NM_175541]	NM_175541	1.03008
Mus musculus SUMO/sentrin specific protease 6 (Snp6), mRNA [NM_146003]	NM_146003	-1.00543
Mus musculus adaptor-related protein complex 2, beta 1 subunit (Ap2b1), mRNA [NM_027915]	NM_027915	1.01201
OLFACTORY RECEPTOR GA_X6K02T2Q125-50604368-50603433. [Source: SPTREMBL; Accession: XM_001001001.1]		1.02101
Mus musculus RIKEN cDNA E130112L23 gene (E130112L23Rik), mRNA [NM_198249]	NM_198249	-1.02392
Mus musculus RIKEN cDNA 2700075B01 gene (2700075B01Rik), mRNA [NM_029669]	NM_029669	-1.07478
Mus musculus interferon inducible protein 1 (Ifi1), mRNA [NM_008326]	NM_008326	-1.23559
Mus musculus leucine rich repeat containing 25 (Lrrc25), mRNA [NM_153074]	NM_153074	1.1189
Neuropilin (NRP) and tolloid (TLL)-like 2	BC068168	-1.05494

Mus musculus ribosomal protein S10 (Rps10), mRNA [NM_025963]	NM_025963	-1.53253
FLN29 gene product	NM_172275	1.07981
RIKEN cDNA 9430098E02 gene	BC019407	1.07069
Mus musculus RIKEN cDNA 1810056O20 gene (1810056O20Rik), mRNA [NM_175277]	NM_175277	-1.22566
RIKEN cDNA 2310067L16 gene	AK010095	1.06218
Mus musculus calnexin (Canx), mRNA [NM_007597]	NM_007597	-1.11904
Mus musculus RIKEN cDNA 5430431G03 gene (5430431G03Rik), mRNA [NM_026235]	NM_026235	1.01485
Mus musculus histamine N-methyltransferase (Hnmt), mRNA [NM_080462]	NM_080462	-1.29131
Mus musculus transient receptor potential cation channel, subfamily C, member 1 (Trpc1), mRNA [NM_019828]	NM_019828	1.0021
Mus musculus leucine rich repeat containing 21 (Lrrc21), mRNA [NM_146245]	NM_146245	1.0029
Mus musculus nuclear factor I/C (Nfic), mRNA [NM_008688]	NM_008688	1.41175
Mus musculus B-cell linker (Blnk), mRNA [NM_008528]	NM_008528	-1.18258
RIKEN cDNA 9230111I22 gene	AK009517	-1.45299
Mus musculus protease, serine, 16 (thymus) (Prss16), mRNA [NM_019429]	NM_019429	-1.00977
Mus musculus elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3), mRNA [NM_019422]	NM_019422	1.01494
Mus musculus RIKEN cDNA 2410002O22 gene (2410002O22Rik), mRNA [NM_025879]	NM_025879	-1.19924
Mus musculus chromosome condensation 1 (Chc1), mRNA [NM_133878]	NM_133878	-1.06247
MITOCHONDRIAL RIBOSOMAL PROTEIN L48. [Source:RefSeq;Acc:NM_026971] [ENSMUSP:ENSMUSP00000000000]	NM_026971	-1.16263
Mus musculus olfactory receptor 341 (Olfr341), mRNA [NM_146950]	NM_146950	1.03774
hypothetical protein C230090D14	NM_173019	-1.01113
Mus musculus RIKEN cDNA 5730536A07 gene (5730536A07Rik), mRNA [NM_026635]	NM_026635	-1.07527
Unknown		1.09499
Expressed sequence AV006275	BC059729	-1.00208
Mus musculus low density lipoprotein receptor-related protein 8, apolipoprotein receptor class B member 8 (Ldlr), mRNA [NM_053073]	NM_053073	1.07371
Mus musculus deoxyhypusine synthase (Dhps), mRNA [NM_201408]	NM_201408	-1.01377
Hyperparathyroidism 2 homolog (human)	AK029710	-1.0902
Mus musculus tubulin, beta 2 (Tubb2), mRNA [NM_009450]	NM_009450	1.05098
Mus musculus tripartite motif protein 8 (Trim8), mRNA [NM_053100]	NM_053100	-1.06669
Mus musculus RIKEN cDNA 5730528L13 gene (5730528L13Rik), mRNA [NM_028137]	NM_028137	-1.07503
Mus musculus RIKEN cDNA B230113M03 gene (B230113M03Rik), mRNA [NM_173755]	NM_173755	1.08398
Slit homolog 3 (Drosophila)	AF144629	1.07704
Mus musculus syntaxin binding protein 3 (Stxbp3), mRNA [NM_011504]	NM_011504	-1.39184
Mus musculus cDNA sequence BC060632 (BC060632), mRNA [NM_198625]	NM_198625	-1.1017
Mus musculus olfactory receptor 206 (Olfr206), mRNA [NM_146991]	NM_146991	1.09605
Protein phosphatase 1, regulatory (inhibitor) subunit 3E	AK044095	1.03407
Mus musculus olfactory receptor 550 (Olfr550), mRNA [NM_147104]	NM_147104	1.05319
Mus musculus cDNA sequence BC031853 (BC031853), mRNA [NM_172758]	NM_172758	1.06903
Mus musculus inhibitor of growth family, member 4 (Ing4), mRNA [NM_133345]	NM_133345	-1.12403
Mus musculus fructose biphosphatase 2 (Fbp2), mRNA [NM_007994]	NM_007994	-1.00446
Mus musculus fibrinogen-like protein 2 (Fgl2), mRNA [NM_008013]	NM_008013	-1.33272
Mus musculus cDNA sequence BC030307 (BC030307), mRNA [NM_153595]	NM_153595	1.18352
AP2 associated kinase 1	BC028270	1.34792
Mus musculus transcription elongation regulator 1 (CA150) (Tcerg1), mRNA [NM_019512]	NM_019512	-1.32564
Mus musculus myosin, heavy polypeptide 14 (Myh14), mRNA [NM_028021]	NM_028021	-1.01335
Diacylglycerol kinase, eta	AK031069	-1.00479
Mus musculus solute carrier family 4 (anion exchanger), member 8 (Slc4a8), mRNA [NM_021530]	NM_021530	1.01805
Mus musculus interleukin 17D (Il17d), mRNA [NM_145837]	NM_145837	-1.03307
Mus musculus sodium channel, nonvoltage-gated, type I, alpha polypeptide (Scn1a), mRNA [NM_011324]	NM_011324	-1.04199
Mus musculus 2-4-dienoyl-Coenzyme A reductase 2, peroxisomal (Decor2), mRNA [NM_011933]	NM_011933	-1.00113
Mus musculus cDNA sequence BC018399 (BC018399), mRNA [NM_145431]	NM_145431	1.1718
A disintegrin and metalloprotease domain 8	NM_007403	-1.14612
Mus musculus RIKEN cDNA D030046N04 gene (D030046N04Rik), mRNA [NM_173189]	NM_173189	1.04673

Mus musculus RIKEN cDNA 1300006N24 gene (1300006N24Rik), mRNA [NM_	NM_027911	-1.08589
Nicotinamide nucleotide transhydrogenase	Z49204	-1.10431
Hypothetical protein D430006K04	AK010729	-1.10706
Mus musculus expressed sequence AW121567 (AW121567), mRNA [NM_1734	NM_173446	1.0815
Retinoblastoma binding protein 6	AK079129	-1.19629
Mus musculus RIKEN cDNA 4631426E05 gene (4631426E05Rik), mRNA [NM_	NM_025712	1.1765
RIKEN cDNA 1300010F03 gene	AK030028	1.03114
Mus musculus olfactory receptor 876 (Olfr876), mRNA [NM_146883]	NM_146883	1.07997
Mus musculus gamma-aminobutyric acid (GABA-A) receptor, subunit alpha 1 (C	NM_010250	1.04918
Mus musculus cDNA sequence BC054059 (BC054059), mRNA [NM_145635]	NM_145635	1.10397
Adult male diencephalon cDNA, RIKEN full-length enriched library, clone:93301	AK034319	1.24684
Mus musculus solute carrier family 1 (high affinity aspartate/glutamate transport	NM_009200	-1.06877
Transmembrane protein 45b	NM_144936	1.03958
Unknown		1.04441
Aldehyde dehydrogenase 1 family, member L2	NM_153543	-1.06119
Mus musculus ankyrin repeat and SOCS box-containing protein 17 (Asb17), mR	NM_025758	1.20612
Zinc finger protein 114	AY166793	-1.12974
Cingulin-like 1	BC031499	-1.1036
Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglac	NM_139272	-1.07753
Mus musculus RIKEN cDNA 9230102I19 gene (9230102I19Rik), mRNA [NM_0:	NM_029959	1.04108
Mus musculus protein tyrosine phosphatase, receptor type, N (Ptpn), mRNA [N	NM_008985	1.08962
Unknown		-1.016
Mus musculus jumonji, AT rich interactive domain 1D (Rbp2 like) (Jarid1d), mR	NM_011419	1.02849
Mus musculus olfactory receptor 12 (Olfr12), mRNA [NM_206896]	NM_206896	1.06132
Mus musculus T-box 1 (Tbx1), mRNA [NM_011532]	NM_011532	-1.36857
Mus musculus RIKEN cDNA 5430416O09 gene (5430416O09Rik), mRNA [NM_	NM_027789	-1.16866
RIKEN cDNA C630007L23 gene	AK050888	-2.66242
Microtubule-associated protein 1 A	AF182213	-1.00902
Mus musculus protein C (Proc), mRNA [NM_008934]	NM_008934	-1.00972
Mus musculus GLI-Kruppel family member HKR3 (Hkr3), mRNA [NM_133879]	NM_133879	1.09481
Mus musculus mRNA for mszf52, partial cds.	AB010345	-1.06081
Mus musculus melanocortin 1 receptor (Mc1r), mRNA [NM_008559]	NM_008559	1.24872
Mus musculus cytosolic acyl-CoA thioesterase 1 (Cte1), mRNA [NM_012006]	NM_012006	-1.25819
Mus musculus RGM domain family, member A (Rgma), mRNA [NM_177740]	NM_177740	-1.14438
Mus musculus cytochrome b-5 (Cyb5), mRNA [NM_025797]	NM_025797	-1.35835
Mus musculus sex hormone binding globulin (Shbg), mRNA [NM_011367]	NM_011367	-1.00191
Mus musculus RIKEN cDNA 2410018G20 gene (2410018G20Rik), mRNA [NM_	NM_029354	-1.17579
RIKEN cDNA 5730537H01 gene	AK017809	1.03186
Mus musculus Eph receptor B2 (Ephb2), mRNA [NM_010142]	NM_010142	-1.04615
Mus musculus olfactory receptor 1128 (Olfr1128), mRNA [NM_146349]	NM_146349	1.03203
Mus musculus RIKEN cDNA A530054K11 gene (A530054K11Rik), mRNA [NM_	NM_183146	-1.19472
RIKEN cDNA 4930404N11 gene	AK008872	1.09981
Echinoderm microtubule associated protein like 5	AK047762	-1.03771
Mus musculus somatostatin receptor 1 (Sstr1), mRNA [NM_009216]	NM_009216	1.03573
Mus musculus fibulin 1 (Fbln1), mRNA [NM_010180]	NM_010180	1.03619
Mus musculus growth hormone secretagogue receptor (Ghsr), mRNA [NM_177:	NM_177330	-1.11083
Mus musculus podocan (Podn), mRNA [NM_172874]	NM_172874	-1.15378
Mus musculus hypothetical LOC214511 (LOC214511), mRNA [XM_147444]	XM_147444	-1.07379
Mus musculus DNA segment, Chr 10, ERATO Doi 610, expressed (D10Ert610	NM_028027	-1.13707
RIKEN cDNA 2210415F13 gene	AK008940	1.00452
Glutathione peroxidase 4	NM_008162	-1.14939
Mus musculus adenylosuccinate synthetase like 1 (Adssl1), mRNA [NM_00742:	NM_007421	-1.16106

Mus musculus palmdelphin (Palmd), mRNA [NM_023245]	NM_023245	-1.14016
Mus musculus RIKEN cDNA 1810049H13 gene (1810049H13Rik), mRNA [NM_025560]	NM_025560	1.03778
Mus musculus aspartate-beta-hydroxylase (Asph), mRNA [NM_023066]	NM_023066	-1.01808
Mus musculus glucosamine-6-phosphate deaminase 1 (Gnpda1), mRNA [NM_011937]	NM_011937	1.07369
Mus musculus RIKEN cDNA 2010204K13 gene (2010204K13Rik), mRNA [NM_023450]	NM_023450	1.01064
Mus musculus olfactory receptor 211 (Olfr211), mRNA [NM_146912]	NM_146912	1.00022
Mus musculus forkhead box A2 (Foxa2), mRNA [NM_010446]	NM_010446	-1.26362
Mus musculus RIKEN cDNA 2810025M15 gene (2810025M15Rik), mRNA [NM_027274]	NM_027274	-1.15666
Mus musculus gastrulation brain homeobox 2 (Gbx2), mRNA [NM_010262]	NM_010262	1.16458
Mus musculus S100 calcium binding protein A8 (calgranulin A) (S100a8), mRNA [NM_013650]	NM_013650	-1.72212
Mus musculus X-ray repair complementing defective repair in Chinese hamster Kalirin, RhoGEF kinase	NM_009533	-1.05304
	AK088732	-1.16305
Mus musculus DNA segment, Chr 10, Brigham & Women's Genetics 1379 expr	XM_125524	1.20704
Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched library	AK041859	1.00713
RIKEN cDNA 4833425H18 gene	AK012372	1.11907
Mus musculus olfactory receptor 1406 (Olfr1406), mRNA [NM_146763]	NM_146763	1.03032
ATP-binding cassette, sub-family A (ABC1), member 14	AK029665	1.06178
Mus musculus tumor protein D52-like 2 (Tpd52l2), mRNA [NM_025482]	NM_025482	-1.22727
Mus musculus adaptor protein complex AP-2, alpha 1 subunit (Ap2a1), mRNA [NM_007458]	NM_007458	1.08173
RIKEN cDNA B230339M05 gene	AK046067	1.03974
Mus musculus RIKEN cDNA 4931408L03 gene (4931408L03Rik), mRNA [NM_030074]	NM_030074	-1.09163
Mus musculus RIKEN cDNA 1600023E10 gene (1600023E10Rik), mRNA [XM_129803]	XM_129803	-1.77961
Mus musculus retinitis pigmentosa 2 homolog (human) (Rp2h), mRNA [NM_133669]	NM_133669	-1.41569
Mus musculus expressed sequence A1788959 (A1788959), mRNA [NM_153598]	NM_153598	1.15498
Mus musculus transcription factor E3 (Tcfe3), mRNA [NM_172472]	NM_172472	1.13662
Membrane cofactor protein	AK047275	-1.02083
Mus musculus importin 8 (Ipo8), mRNA [XM_132974]	XM_132974	1.07129
Mus musculus neurogranin (Nrgn), mRNA [NM_022029]	NM_022029	-1.07506
Mus musculus lectin, galactose binding, soluble 1 (Lgals1), mRNA [NM_008495]	NM_008495	1.01563
Mus musculus solute carrier family 41, member 1 (Slc41a1), mRNA [NM_173865]	NM_173865	-1.01149
Mus musculus pleckstrin homology domain containing, family B (evectins) mem1	NM_013746	1.02118
Mus musculus RIKEN cDNA 2610036L13 gene (2610036L13Rik), mRNA [NM_026410]	NM_026410	-1.07366
Mus musculus trafficking protein particle complex 3 (Trappc3), mRNA [NM_013718]	NM_013718	-1.40474
Mus musculus schlafen 2 (Slfn2), mRNA [NM_011408]	NM_011408	1.0608
Mus musculus neuronal PAS domain protein 3 (Npas3), mRNA [NM_013780]	NM_013780	1.10418
Mus musculus olfactory receptor 1012 (Olfr1012), mRNA [NM_146568]	NM_146568	1.22847
Immunoglobulin heavy chain (V11 family)	X96776	1.06808
RIKEN cDNA 4930448N21 gene	AK019619	-1.02073
Mus musculus serine (or cysteine) proteinase inhibitor, clade A, member 1d (Se	NM_009246	1.18583
Mus musculus 2 days pregnant adult female oviduct cDNA, RIKEN full-length er	AK087617	1.07945
Mus musculus fibroblast growth factor 7 (Fgf7), mRNA [NM_008008]	NM_008008	-1.32925
Gap junction membrane channel protein beta 1	NM_008124	1.07624
Mus musculus olfactory receptor 922 (Olfr922), mRNA [NM_146781]	NM_146781	1.01436
RIKEN cDNA 1110013L07 gene	AK003667	-1.11114
RIKEN cDNA 9130020G22 gene	AK049696	1.08176
N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1	AK004787	-1.15207
Mus musculus similar to zinc finger, MYND domain containing 12 (LOC332934),	XM_285831	1.11294
Mus musculus guanine nucleotide binding protein, beta 3 (Gnb3), mRNA [NM_013530]	NM_013530	1.03812
Transportin 3	AK077714	-1.05299
RIKEN cDNA 1700012C15 gene	AK005896	-1.29274
Mus musculus retinol dehydrogenase 14 (all-trans and 9-cis) (Rdh14), mRNA [NM_023697]	NM_023697	-1.44154
Mus musculus zona pellucida glycoprotein 1 (Zp1), mRNA [NM_009580]	NM_009580	-1.00383

RIKEN cDNA 6530403M18 gene	AK018320	1
vitelliform macular dystrophy 2-like 3	AK049492	1.04954
Mus musculus transcription elongation factor A (SII) 1 (Tcea1), mRNA [NM_011 NM_011541]		-1.84159
RIKEN cDNA 4930522N08 gene	AK015871	1.04476
Unknown		1.04855
Mus musculus cell division cycle 5-like (S. pombe) (Cdc5l), mRNA [NM_152810 NM_152810]		-1.31818
Mus musculus RIKEN cDNA 6430402L03 gene (6430402L03Rik), mRNA [NM_ NM_183318]		-1.0782
Mus musculus cDNA clone IMAGE:3487966, complete cds.	BC006028	1.05126
Mus musculus mesoderm development candiate 2 (Mesdc2), mRNA [NM_0234 NM_023403]		-1.25576
Mus musculus Mdm2, transformed 3T3 cell double minute p53 binding protein (lNM_134092)		-1.0363
Mus musculus glycosyltransferase-like 1B (Gylt1b), mRNA [NM_172670]	NM_172670	1.07063
RIKEN cDNA 2900002G04 gene	AK030316	1.1413
Splicing factor, arginine/serine-rich 8	AK031872	1.2401
Mus musculus RIKEN cDNA 1100001G20 gene (1100001G20Rik), mRNA [NM_ NM_183249]		-1.51528
Mus musculus RIKEN cDNA 2610524A10 gene (2610524A10Rik), mRNA [NM_ NM_028258]		1.02713
Mus musculus cyclin-dependent kinase 5 (Cdk5), mRNA [NM_007668]	NM_007668	1.03932
Mus musculus MAS-related GPR, member A1 (Mrgpra1), mRNA [NM_153095]	NM_153095	-1.05011
RIKEN cDNA 2210418G03 gene	AK008974	1.05584
Alcohol dehydrogenase 6 (class V), pseudogene 1	AK004863	1.04211
Actinin alpha 2	NM_033268	1.24526
Mus musculus RIKEN cDNA 8430410K20 gene (8430410K20Rik), mRNA [NM_ NM_145609]		-1.2375
Mus musculus serine (or cysteine) proteinase inhibitor, clade B, member 1a (Se NM_025429)		-1.21957
ATP-binding cassette, sub-family B (MDR/TAP), member 5	AK020318	1
Mus musculus RIKEN cDNA B630005N14 gene (B630005N14Rik), mRNA [NM_ NM_175312]		-1.39822
Mus musculus translin-associated factor X (Tsnax), mRNA [NM_016909]	NM_016909	-1.22372
Protein kinase, membrane associated tyrosine/threonine 1	NM_023058	-1.11063
Mus musculus RIKEN cDNA 0610011N22 gene (0610011N22Rik), mRNA [NM_ NM_024201]		1.01956
Mus musculus meprin 1 alpha (Mep1a), mRNA [NM_008585]	NM_008585	1.03982
Mus musculus 0 day neonate cerebellum cDNA, RIKEN full-length enriched libr	AK048695	1.03862
Solute carrier organic anion transporter family, member 6c1	AK016647	1.02998
Mus musculus RIKEN cDNA 4921526F01 gene (4921526F01Rik), mRNA [NM_ NM_00100149]		1.04961
Mus musculus phosphatidylinositol glycan, class W (Pigw), mRNA [NM_027388 NM_027388]		-1.16114
RIKEN cDNA 4930562F07 gene	AK016191	1.1808
Mus musculus inositol 1,4,5-triphosphate receptor 1 (Itpr1), mRNA [NM_010585 NM_010585]		-1.66423
Mus musculus DNA segment, Chr 5, ERATO Doi 33, expressed (D5Ert33e), mNM_026504		-1.00168
Mus musculus eukaryotic translation initiation factor 3, subunit 8 (Eif3s8), mRNA NM_146200		-1.13154
Clusterin associated protein 1	NM_029738	-1.17493
Mus musculus ventral anterior homeobox containing gene 1 (Vax1), mRNA [NM NM_009501]		1.11272
Mus musculus DNA segment, Chr 10, Burmeister 2, expressed (D10Bur2e), mRNM_027480		-1.24043
Keratin complex 2, basic, gene 7	AK002434	-1.09023
Mus musculus cyclin D-type binding-protein 1 (Ccndbp1), mRNA [NM_010761] NM_010761		-1.30953
Mus musculus fatty acid binding protein 6, ileal (gastrotropin) (Fabp6), mRNA [NM_008375]		-1.35057
Mus musculus cDNA sequence BC004056 (BC004056), mRNA [NM_145599]	NM_145599	-1.02194
Mus musculus CD69 antigen (Cd69), mRNA [XM_132882]	XM_132882	1.02585
Mus musculus ribosomal protein S14 (Rps14), mRNA [NM_020600]	NM_020600	1.05558
Mus musculus nucleosome assembly protein 1-like 3 (Nap1l3), mRNA [NM_138 NM_138742]		-1.05165
RIKEN cDNA 9430020K01 gene	AK004276	-1.31378
RIKEN cDNA B130005I07 gene	AK047998	1.15334
RIKEN cDNA 9330151L19 gene	AK034052	1.0593
Mus musculus thymoma viral proto-oncogene 3 (Akt3), mRNA [NM_011785]	NM_011785	-1.03936
Mus musculus multiple PDZ domain protein (Mpdz), mRNA [NM_010820]	NM_010820	1.00999
Mus musculus upstream binding protein 1 (Ubp1), mRNA [NM_013699]	NM_013699	-1.07081

TAP binding protein	AK014566	1.05465
Mus musculus RIKEN cDNA 4933401K09 gene (4933401K09Rik), mRNA [NM_	NM_181816	-1.06277
Mus musculus G-protein signalling modulator 2 (AGS3-like, C. elegans) (Gpsm2	NM_029522	-1.04508
Mus musculus RIKEN cDNA 1700011K15 gene (1700011K15Rik), mRNA [NM_	NM_029294	1.04902
Mus musculus RIKEN cDNA A330009G12 gene (A330009G12Rik), mRNA [NM_	NM_177873	-1.00306
Mus musculus cDNA sequence BC055368 (BC055368), mRNA [NM_183017]	NM_183017	1.0682
WD repeat domain 44	AK033628	-1.67456
Mus musculus RIKEN cDNA G630009D10 gene (G630009D10Rik), mRNA [NM_	NM_177354	1.16216
Ariadne ubiquitin-conjugating enzyme E2 binding protein homolog 1 (Drosophila	AK032640	-1.56817
Mus musculus cDNA sequence BC017158 (BC017158), mRNA [NM_145590]	NM_145590	1.03776
Mus musculus interleukin 17 receptor (Il17r), mRNA [NM_008359]	NM_008359	1.01912
Mus musculus syntaxin binding protein 4 (Stxbp4), mRNA [NM_011505]	NM_011505	1.10771
Mus musculus Sh3kbp1 binding protein 1 (Shkbp1), mRNA [NM_138676]	NM_138676	1.06068
Mus musculus RIKEN cDNA 1810065E05 gene (1810065E05Rik), mRNA [NM_	NM_027239	-1.04691
Mus musculus muskelin 1, intracellular mediator containing kelch motifs (Mkln1)	NM_013791	1
Mus musculus serine (or cysteine) proteinase inhibitor, clade B, member 6b (Se	NM_011454	-1.11812
Mus musculus adult female vagina cDNA, RIKEN full-length enriched library, clc	AK036798	-1.03633
Cingulin-like 1	BC031499	-1.24827
Mus musculus EGF-like module containing, mucin-like, hormone receptor-like s	NM_139138	-1.26548
Mus musculus acetyl-Coenzyme A acyltransferase 1 (Acaa1), mRNA [NM_1308	NM_130864	1.06435
RIKEN cDNA 2610042G18 gene	AK032765	1.04554
Ring finger protein 133	AK017027	1.08568
Mus musculus cyclin K (Ccnk), mRNA [NM_009832]	NM_009832	1.09784
Wilms' tumour 1-associating protein	AJ276707	-1.0959
Expressed sequence AU020772	AK047412	1.15299
Mus musculus coagulation factor C homolog (Limulus polyphemus) (Coch), mR	NM_007728	1.09915
Mus musculus olfactory receptor 860 (Olfr860), mRNA [NM_146528]	NM_146528	1.11393
Mus musculus olfactory receptor 794 (Olfr794), mRNA [NM_146378]	NM_146378	1.06789
Mus musculus RIKEN cDNA 1810048J11 gene (1810048J11Rik), mRNA [NM_	(NM_026327	-1.04539
Mus musculus RIKEN cDNA 1810017G16 gene (1810017G16Rik), mRNA [NM_	NM_021502	-1.18336
Mus musculus 12 days embryo embryonic body between diaphragm region and	AK020441	-1.22735
Mus musculus zinc finger protein 162 (Zfp162), mRNA [NM_011750]	NM_011750	1.11832
Mus musculus C1q and tumor necrosis factor related protein 5 (C1qtnf5), mRN	NM_145613	1.00367
Mus musculus RIKEN cDNA G431002C21 gene (G431002C21Rik), mRNA [NM_	NM_172790	-1.02336
Mus musculus phosphodiesterase 1A, calmodulin-dependent (Pde1a), mRNA [	NM_016744	-1.05622
RIKEN cDNA 4932415G16 gene	AK040480	-1.18552
Mus musculus reversion-inducing-cysteine-rich protein with kazal motifs (Reck),	NM_016678	-1.13385
Zinc finger protein 50	AK013374	-1.02444
Mus musculus RIKEN cDNA 1110002H14 gene (1110002H14Rik), mRNA [NM_	NM_026760	1.04644
Unknown		1.03252
Mus musculus RIKEN cDNA D530025J19 gene (D530025J19Rik), mRNA [NM_	NM_175646	-1.00522
Mus musculus RIKEN cDNA 9130401M01 gene (9130401M01Rik), mRNA [NM_	NM_029418	-1.19452
Unknown		1.54323
Mus musculus cryptochrome 2 (photolyase-like) (Cry2), mRNA [NM_009963]	NM_009963	1.16075
Mus musculus Jun proto-oncogene related gene d1 (Jund1), mRNA [NM_01059	NM_010592	-1.08457
Mus musculus RIKEN cDNA 4432416J03 gene (4432416J03Rik), mRNA [NM_	(NM_030069	1.04352
CDNA sequence BC037708	NM_172150	-1.10387
Mus musculus intergral membrane protein 1 (Itm1), mRNA [NM_008408]	NM_008408	-1.28681
Mus musculus RIKEN cDNA 1700019F09 gene (1700019F09Rik), mRNA [NM_	NM_027963	1.04971
Mus musculus kinesin light chain 3 (Klc3), mRNA [NM_146182]	NM_146182	1.05403
RIKEN cDNA 4930562C03 gene	AK081459	-1.14625
Mus musculus bradykinin receptor, beta 1 (Bdkrb1), mRNA [NM_007539]	NM_007539	1.12908

Protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), beta isoform	AK077158	-1.09441
Mus musculus sorting nexin 10 (Snx10), mRNA [NM_028035]	NM_028035	-1.49063
Mus musculus phospholipase D2 (Pld2), mRNA [NM_008876]	NM_008876	1.15502
Rho GTPase activating protein 20	AK033819	1.06028
Mus musculus 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (Hmgcs2), n	NM_008256	1.04121
Brain-specific angiogenesis inhibitor 1	AK046831	1.20381
Mus musculus inositol polyphosphate-4-phosphatase, type I (Inpp4a), mRNA [N	NM_030266	1.12218
Mus musculus prolactin-like protein C 3 (Prllc3), mRNA [NM_023741]	NM_023741	1.07774
Mus musculus histone deacetylase 2 (Hdac2), mRNA [NM_008229]	NM_008229	-1.84602
RIKEN cDNA 2410170E21 gene	AK003973	-1.19307
Mus musculus inhibin beta E (Inhbe), mRNA [NM_008382]	NM_008382	1.24642
G substrate	AF071562	-1.29734
Mus musculus RIKEN cDNA 2210418O10 gene (2210418O10Rik), mRNA [NM_	NM_029813	-1.09762
Mus musculus RIKEN cDNA 1700111A04 gene (1700111A04Rik), mRNA [NM_	NM_177765	-1.08272
CDNA sequence BC033606	AK087596	-1.06472
Mus musculus mitochondrial ribosomal protein S36 (Mrps36), mRNA [NM_0253	NM_025369	-1.07997
Mus musculus RIKEN cDNA 1500001A10 gene (1500001A10Rik), mRNA [NM_	NM_026886	1
C-type lectin domain family 4, member f	NM_016751	-1.10156
Mus musculus stomatin-like 1 (Stoml1), mRNA [NM_026942]	NM_026942	1.09391
Unknown		1.12293
RIKEN cDNA 4930463G05 gene	AK015217	1.08147
Mus musculus cyclin-dependent kinase 9 (CDC2-related kinase) (Cdk9), mRNA	NM_130860	-1.07168
Unknown		1.03613
RIKEN cDNA 9330179O15 gene	AK020389	1.04803
Apical protein, Xenopus laevis-like	AK049850	-1.00944
Mus musculus prolyl 4-hydroxylase, beta polypeptide (P4hb), mRNA [NM_0110:	NM_011032	1.17225
Unknown		-1.30388
Mus musculus olfactory receptor 1161 (Olfr1161), mRNA [NM_146848]	NM_146848	1.10072
Mus musculus transmembrane protein 20 (Tmem20), mRNA [NM_175507]	NM_175507	-1.34072
Expressed sequence AI848100	AK029097	-1.07795
Mus musculus MARVEL (membrane-associating) domain containing 2 (Marveld	NM_178410	-1.05621
Mus musculus olfactory receptor 870 (Olfr870), mRNA [NM_146904]	NM_146904	1.07367
Mus musculus LanC (bacterial lantibiotic synthetase component C)-like 1 (Lancl	NM_021295	1.17271
Mus musculus NAD(P)H dehydrogenase, quinone 2 (Nqo2), mRNA [NM_02028	NM_020282	-1.06179
Mus musculus transmembrane protease, serine 4 (Tmprss4), mRNA [NM_1454:	NM_145403	-1.09187
Mus musculus G protein-coupled receptor 4 (Gpr4), mRNA [NM_175668]	NM_175668	1.10725
Mus musculus DNA segment, Chr 13, Wayne State University 123, expressed (I	NM_145354	1.2502
Mus musculus gamma-glutamyltransferase-like activity 1 (Ggta1), mRNA [NM_	NM_011820	1.06394
Mus musculus hepatoma-derived growth factor, related protein 2 (Hdgfrp2), mR	NM_008233	1.06455
RIKEN cDNA B430320C24 gene	AK046712	-1.35987
Mus musculus ubiquitin fusion degradation 1 like (Ufd1l), mRNA [NM_011672]	NM_011672	-1.12362
Adult male urinary bladder cDNA, RIKEN full-length enriched library, clone:9530	AK035482	-1.35122
Mus musculus F-box only protein 17 (Fbxo17), mRNA [NM_015796]	NM_015796	-1.13383
Heat shock transcription factor 2 binding protein	AK016553	-1.16155
CDNA, clone:YOG0124N13, strand:unspecified	AK080862	1
RIKEN cDNA 4631422O05 gene	BC062166	-1.16874
BTB (POZ) domain containing 4	AK038975	-1.09672
Mus musculus cartilage associated protein (Crtap), mRNA [NM_019922]	NM_019922	1.1023
E1A binding protein p300	AK042627	-1.02667
Expressed sequence AU020939	NM_178659	1.04849
Mus musculus angiotensin receptor 1 (Agtr1), mRNA [NM_177322]	NM_177322	1.08103
Mus musculus carbonic anhydrase 7 (Car7), mRNA [NM_053070]	NM_053070	1.09375

Serine (or cysteine) proteinase inhibitor, clade D, member 1	NM_008223	-1.04595
Mus musculus tubulin, gamma complex associated protein 3 (Tubgcp3), mRNA	NM_198031	-1.31038
DCP1 decapping enzyme homolog b (S. cerevisiae)	AK047334	1.02127
Mus musculus lipocalin 5 (Lcn5), mRNA [NM_007947]	NM_007947	1.02101
Mus musculus ATPase, class I, type 8B, member 4 (Atp8b4), mRNA [XM_1413·XM_141343]		1.02437
Mus musculus ectonucleoside triphosphate diphosphohydrolase 2 (Entpd2), mRNA	NM_009849	-1.15864
Mus musculus RIKEN cDNA 1500012D09 gene (1500012D09Rik), mRNA [NM_·NM_172601]		-1.09686
semaF cytoplasmic domain associated protein 2	NM_016867	-1.42303
RIKEN cDNA 5330417K06 gene	AK030481	1.14698
RIKEN cDNA 0610007P08 gene	AF217319	1.21512
RIKEN cDNA 4631422C13 gene	AK014527	-1.13109
Mus musculus coagulation factor XI (F11), mRNA [NM_028066]	NM_028066	1.03278
RIKEN cDNA 2600011C06 gene	AK011403	-1.56222
Mus musculus calmodulin 1 (Calm1), mRNA [NM_009790]	NM_009790	-1.93955
Mus musculus cyclin-dependent kinase-like 2 (CDC2-related kinase) (Cdkl2), m	NM_016912	-1.28269
Mus musculus annexin A9 (Anxa9), mRNA [NM_023628]	NM_023628	1.08388
Expressed sequence AI853688	AK078307	-1.07225
Mus musculus formyl peptide receptor, related sequence 2 (Fpr-rs2), mRNA [NM·NM_008039]		-1.19224
Mus musculus RIKEN cDNA A030013N09 gene (A030013N09Rik), mRNA [NM_·NM_177864]		1.14598
RIKEN cDNA A930010I20 gene	AK044389	-1.01893
Mus musculus vav 1 oncogene (Vav1), mRNA [NM_011691]	NM_011691	1.04188
Mus musculus DNA segment, Chr 10, Johns Hopkins University 82, expressed (NM_177475)		-1.03705
Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched li	AK046926	1.04571
Mus musculus RIKEN cDNA 2310044P18 gene (2310044P18Rik), mRNA [NM_·NM_144829]		-1.24929
RIKEN cDNA 4930451E13 gene	AK017136	1.07212
Mus musculus tudor domain containing 7 (Tdrd7), mRNA [NM_146142]	NM_146142	-1.27338
Mus musculus mannose-P-dolichol utilization defect 1 (Mpdu1), mRNA [NM_01·NM_011900]		1.047
Mus musculus casein kinase 1, epsilon (Csnk1e), mRNA [NM_013767]	NM_013767	1.52268
RIKEN cDNA 1700010A17 gene	BC048673	-1.2071
Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 3F (Ppp1r3f)	NM_138605	1.00563
Sodium channel, voltage-gated, type I, alpha	L42339	1.08648
Ubiquitin specific protease 15	AK014891	-1.07573
Mus musculus RIKEN cDNA 2210010C04 gene (2210010C04Rik), mRNA [NM_·NM_023333]		1.05792
Mus musculus cold shock domain protein A (Csda), mRNA [NM_011733]	NM_011733	-1.11445
Mucin 2	AF016695	1.02619
Cholesterol 25-hydroxylase	NM_009890	-1.32851
Unknown		-1.16762
Mus musculus fibroblast growth factor receptor 3 (Fgfr3), mRNA [NM_008010]	NM_008010	1.14905
Mus musculus sprouty homolog 2 (Drosophila) (Spry2), mRNA [NM_011897]	NM_011897	1.21782
RIKEN cDNA 2410022M11 gene	AK010574	1.00774
Mus musculus phosphoglycerate mutase 2 (Pgam2), mRNA [NM_018870]	NM_018870	-1.2291
Mus musculus protein S (alpha) (Pros1), mRNA [NM_011173]	NM_011173	-1.35225
RIKEN cDNA 2610002I17 gene	AK011270	1.03029
RIKEN cDNA A630031M04 gene	AK028805	1.04258
CXXC finger 4	AK034523	-1.08007
Mus musculus ornithine decarboxylase antizyme 2 (Oaz2), mRNA [NM_010952·NM_010952]		1.00179
Mus musculus FMS-like tyrosine kinase 4 (Flt4), mRNA [NM_008029]	NM_008029	1.07701
Hydroxysteroid (17-beta) dehydrogenase 13	AK050378	1.07576
Mus musculus heterogeneous nuclear ribonucleoprotein A1 (Hnrpa1), mRNA [N·NM_010447]		-1.62934
RIKEN cDNA A230053A07 gene	AK045936	1.32847
Mus musculus T-box 20 (Tbx20), transcript variant 2, mRNA [NM_020496]	NM_020496	1.08505
Mus musculus procollagen, type V, alpha 1 (Col5a1), mRNA [NM_015734]	NM_015734	-1.00672

Mus musculus erythrocyte protein band 4.1-like 4a (Epb4.114a), mRNA [NM_01:NM_013512		-1.00774
Mus musculus surfeit gene 6 (Surf6), mRNA [NM_009298]	NM_009298	1.00059
Mus musculus olfactory receptor 1413 (Olfr1413), mRNA [NM_147037]	NM_147037	1.05659
Mus musculus synovial sarcoma, X member B, breakpoint 1 (Ssxb1), mRNA [NM_026492]	NM_026492	1.08898
Mus musculus cDNA sequence BC052044 (BC052044), mRNA [NM_172913]	NM_172913	-1.7074
Mus musculus integrin alpha 3 (Itga3), mRNA [NM_013565]	NM_013565	1.14203
Solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator),	BC003791	-1.33152
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 39 (Ddx39), mRNA [NM_197982]	NM_197982	-1.11804
Mus musculus erythrocyte protein band 4.1-like 3 (Epb4.113), mRNA [NM_013813]	NM_013813	-1.00496
Mus musculus glycine decarboxylase (Gldc), mRNA [NM_138595]	NM_138595	-1.09208
Mus musculus RIKEN cDNA 1810073G14 gene (1810073G14Rik), mRNA [NM_026342]	NM_026342	1.10625
Mus musculus G-protein signalling modulator 1 (AGS3-like, C. elegans) (Gpsm1)	NM_153410	-1.00696
Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 11 (Abcg2)	NM_021022	1.12848
Mus musculus olfactory receptor 1494 (Olfr1494), mRNA [NM_146990]	NM_146990	1.10531
Mus musculus adrenergic receptor, beta 1 (Adrb1), mRNA [NM_007419]	NM_007419	1.14552
RIKEN cDNA 1500016O10 gene	AK005271	1.21287
Mus musculus RIKEN cDNA 0610030G03 gene (0610030G03Rik), mRNA [NM_026708]	NM_026708	-1.03725
Unknown		1.0287
Mus musculus B-cell translocation gene 1, anti-proliferative (Btg1), mRNA [NM_007569]	NM_007569	-1.07895
RIKEN cDNA 2310076G13 gene	AK010199	-1.9779
H19 fetal liver mRNA	AK003142	1.1264
Mus musculus RIKEN cDNA C130079G13 gene (C130079G13Rik), mRNA [NM_177661]	NM_177661	-1.0426
Demilune cell and parotid protein	NM_145386	-1.12437
RIKEN cDNA 2610101J03 gene	BC055464	-1.1973
MyoD family inhibitor domain containing	NM_175088	-1.25331
RIKEN cDNA 4833428C12 gene	AK076492	-1.15303
Mus musculus neurofilament 3, medium (Nef3), mRNA [NM_008691]	NM_008691	1.05496
5-methyltetrahydrofolate-homocysteine methyltransferase	AK085987	1.26666
Mus musculus LUC7-like 2 (S. cerevisiae) (Luc7l2), mRNA [NM_138680]	NM_138680	-1.3931
Mus musculus sal-like 4 (Drosophila) (Sall4), transcript variant b, mRNA [NM_201395]	NM_201395	1.34971
Mus musculus expressed sequence BB219290 (BB219290), mRNA [NM_145141]	NM_145141	-1.10081
Mus musculus small proline-rich protein 2D (Sprr2d), mRNA [NM_011470]	NM_011470	1.00194
Mus musculus expressed sequence AW061290 (AW061290), mRNA [NM_201361]	NM_201361	-1.28053
Mus musculus growth arrest specific 7 (Gas7), mRNA [NM_008088]	NM_008088	1.01404
Mus musculus RNA binding site for Dazl protein, clone dd1.	AJ409488	1.00197
Mus musculus neurofascin (Nfasc), mRNA [NM_182716]	NM_182716	1.07904
Mus musculus vomeronasal 1 receptor, C3 (V1rc3), mRNA [NM_053233]	NM_053233	-1.02882
Mus musculus olfactory receptor 64 (Olfr64), mRNA [NM_013616]	NM_013616	-1.00336
Mus musculus protease (prosome, macropain) 28 subunit, beta, b (Psme2b), mRNA [NM_011191]	NM_011191	-1.21192
Unknown		1.13392
RIKEN cDNA 4933426D04 gene	AK016926	1.17135
Mus musculus nucleoplasmin 3 (Npm3), mRNA [NM_008723]	NM_008723	-1.03084
Mus musculus homeo box, msh-like 1 (Msx1), mRNA [NM_010835]	NM_010835	-1.01224
Mus musculus RIKEN cDNA 2210404O07 gene (2210404O07Rik), mRNA [XM_125703]	XM_125703	-1.03733
Mus musculus ribosomal protein L31 (Rpl31), mRNA [NM_053257]	NM_053257	-1.09459
Mus musculus RIKEN cDNA 1300007F04 gene (1300007F04Rik), mRNA [NM_026185]	NM_026185	-1.00387
Mus musculus transcription factor AP-2, alpha (Tcfap2a), mRNA [NM_011547]	NM_011547	1.36683
RIKEN cDNA 5830411E10 gene	BC027371	-1.47998
Mus musculus delta-like 1 homolog (Drosophila) (Dlk1), mRNA [NM_010052]	NM_010052	-1.04261
Mus musculus RIKEN cDNA 4930402F06 gene (4930402F06Rik), mRNA [XM_130219]	XM_130219	1.24894
RIKEN cDNA 9530056D24 gene	AK020611	-1.56508
Mus musculus small proline-rich protein 3 (Sprr3), mRNA [NM_011478]	NM_011478	-1.24333

Transcribed locus, moderately similar to NP_059976.1 olfactory receptor, family CB174062		1.03528
Mus musculus RIKEN cDNA 1810008A14 gene (1810008A14Rik), mRNA [NM_025457]		-1.29983
Mus musculus RIKEN cDNA 1810004I06 gene (1810004I06Rik), mRNA [NM_024220]		-1.13234
Mus musculus renin 1 structural (Ren1), mRNA [NM_031192]	NM_031192	1.26492
RIKEN cDNA 4933439C20 gene	BC059938	-1.31294
Mus musculus adducin 2 (beta) (Add2), mRNA [NM_013458]	NM_013458	-1.1391
cardiac lineage protein 1	NM_138753	-1.10864
Mus musculus TAF6 RNA polymerase II, TATA box binding protein (TBP)-assoc	NM_009315	1.14174
Mus musculus RIKEN cDNA A930025D01 gene (A930025D01Rik), mRNA [NM_178762]		-1.0419
Mus musculus RIKEN cDNA 4930522H14 gene (4930522H14Rik), mRNA [NM_026291]		1.03629
Mus musculus sclerostin (Sost), mRNA [NM_024449]	NM_024449	1.1304
Mus musculus keratin complex 1, acidic, gene 1 (Krt1-1), mRNA [NM_010659]	NM_010659	1.11454
Mus musculus glycerol phosphate dehydrogenase 2, mitochondrial (Gpd2), mR	NM_010274	1.25716
Mus musculus cell division cycle 2 homolog (S. pombe)-like 2 (Cdc2l2), mRNA [	NM_007661	1.10088
Radial spokehead-like 3	AK038980	-1.11526
Mus musculus eukaryotic translation initiation factor 4E binding protein 2 (Eif4e	NM_010124	1.12021
Mus musculus RIKEN cDNA C530046L02 gene (C530046L02Rik), mRNA [NM_173186]		-1.0633
Mus musculus vomeronasal 1 receptor, F3 (V1rf3), mRNA [NM_134200]	NM_134200	1.07608
Mus musculus early B-cell factor 2 (Ebf2), mRNA [NM_010095]	NM_010095	1.01474
peroxisomal integral membrane protein 47	NM_021376	-1.29797
Tripartite motif-containing 54	NM_021447	1.09795
Mus musculus hemoglobin Z, beta-like embryonic chain (Hbb-bh1), mRNA [NM_008219]		1.05749
Mus musculus ELAV (embryonic lethal, abnormal vision, Drosophila)-like 2 (Hu	NM_207685	1.00951
Tumor necrosis factor receptor superfamily, member 7	L24495	-1.09594
Mus musculus retinoic acid induced 1 (Rai1), mRNA [NM_009021]	NM_009021	1.1136
Mus musculus ATPase, H ⁺ transporting, V1 subunit A, isoform 1 (Atp6v1a1), m	NM_007508	1.03269
Mus musculus lysyl oxidase-like 4 (Loxl4), mRNA [NM_053083]	NM_053083	1.07509
Mus musculus lysyl oxidase-like 1 (Loxl1), mRNA [NM_010729]	NM_010729	1.33372
Expressed sequence AI447928	AK046455	-1.18227
Mus musculus ring finger protein 125 (Rnf125), mRNA [NM_026301]	NM_026301	-1.07987
Mus musculus deubiquitinating enzyme 2 (Dub2), mRNA [NM_010089]	NM_010089	-1.14167
Mus musculus POT1-like telomere end-binding protein (S. pombe) (Pot1), mRN	NM_133931	-1.31117
Mus musculus dynein, cytoplasmic, intermediate chain 2 (Dncic2), mRNA [NM_010064]		-1.09787
RIKEN cDNA 4931433A01 gene	AK051109	1
Mus musculus RAB3A interacting protein (rabin3)-like 1 (Rab3il1), mRNA [NM_144538]		1.12633
Mus musculus S100 calcium binding protein A3 (S100a3), mRNA [NM_011310]	NM_011310	1.14217
RIKEN cDNA 2810027O19 gene	AK053070	1.1071
Mus musculus adult male stomach cDNA, RIKEN full-length enriched library, clc	AK008925	1.06352
Mus musculus phospholipid scramblase 1 (Plscr1), mRNA [NM_011636]	NM_011636	-1.32173
RIKEN cDNA 4930550G17 gene	AK016085	1.08464
Mus musculus RIKEN cDNA 2210407C18 gene (2210407C18Rik), mRNA [NM_144544]		1.08453
Mus musculus malate dehydrogenase 1, NAD (soluble) (Mdh1), mRNA [NM_008618]		-1.31795
Mus musculus RIKEN cDNA 4933430F16 gene (4933430F16Rik), mRNA [NM_027740]		-1.23824
RIKEN cDNA 4930532L20 gene	AK077080	-1.10033
Mus musculus RIKEN cDNA C330026N02 gene (C330026N02Rik), mRNA [NM_175290]		1.04247
RIKEN cDNA 4632412I24 gene	AK047599	-1.03991
Mus musculus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA [NM_134438]		1.07647
Sodium channel, voltage-gated, type IX, alpha	L42338	1.12064
Mus musculus ubiquitin-like 3 (Ubl3), mRNA [NM_011908]	NM_011908	-1.58961
Mus musculus uroplakin 1B (Upk1b), mRNA [NM_178924]	NM_178924	-1.21449
RIKEN cDNA 1700001O02 gene	AK079015	1.05032
Mus musculus protein kinase C substrate 80K-H (Prkcsh), mRNA [NM_008925]	NM_008925	1.01758

Mus musculus adaptor protein complex AP-1, gamma 2 subunit (Ap1g2), mRNA	NM_007455	-1.13667
CDNA sequence BC067047	AK090301	-1.1031
Mus musculus expressed sequence AW125753 (AW125753), mRNA [NM_029007	NM_029007	-1.35255
Mus musculus RIKEN cDNA C730027J19 gene (C730027J19Rik), mRNA [NM_	NM_178758	1.12012
Mus musculus cDNA sequence BC027309 (BC027309), mRNA [NM_177736]	NM_177736	1.02876
trypsin-like protease p98	NM_153172	1.05705
RIKEN cDNA A730004I20 gene	Z83814	-1.00065
Mus musculus olfactory receptor 1247 (Olf1247), mRNA [NM_146966]	NM_146966	-1.02038
Mus musculus RIKEN cDNA 2410022L05 gene (2410022L05Rik), mRNA [NM_	(NM_025556	-1.00921
Phosphorylase kinase beta	AK089493	-1.10204
RIKEN cDNA 6430628N08 gene	AK018292	-1.02484
Arachidonate 5-lipoxygenase	BC049768	-1.11747
Mus musculus TBC1 domain family, member 13 (Tbc1d13), mRNA [NM_14625	NM_146252	-1.05226
Plexin A2	AK028562	-1.45097
Mus musculus NMDA receptor-regulated gene 2 (Narg2), mRNA [NM_145618]	NM_145618	-1.31132
Mus musculus RIKEN cDNA 4921508E09 gene (4921508E09Rik), mRNA [NM_	NM_025721	1.04253
Mus musculus expressed sequence C81234 (C81234), mRNA [NM_172479]	NM_172479	-1.22113
Mus musculus adaptor-related protein complex AP-4, beta 1 (Ap4b1), mRNA [N	NM_019504	1.1379
Mus musculus RIKEN cDNA 0610010D20 gene (0610010D20Rik), mRNA [NM_	NM_026152	-1.07716
Mus musculus Ral GEF with PH domain and SH3 binding motif 1 (Ralgs1), mR	NM_175211	1.03934
Mus musculus phosphatidylinositol glycan, class B (Pigb), mRNA [NM_018889]	NM_018889	-1.27212
RIKEN cDNA 1700013H16 gene	AK005953	1
Mus musculus RIKEN cDNA 2610304G08 gene (2610304G08Rik), mRNA [NM_	NM_027434	1.43119
Mus musculus proprotein convertase subtilisin/kexin type 2 (Pcsk2), mRNA [NM	NM_008792	1.18074
Mus musculus Ras-like without CAAX 1 (Rit1), mRNA [NM_009069]	NM_009069	-1.10218
Protocadherin 10	AK122503	1.04384
Mus musculus calcium channel, voltage-dependent, beta 2 subunit (Cacnb2), m	NM_023116	1.03496
Mus musculus tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activat	NM_009536	-1.13632
Mus musculus T-cell leukemia/lymphoma 1B, 2 (Tcl1b2), mRNA [NM_013775]	NM_013775	1.02747
Mus musculus cathepsin B (Ctsb), mRNA [NM_007798]	NM_007798	-1.34869
Mus musculus peroxisome proliferator activated receptor alpha (Ppara), mRNA	NM_011144	1.43957
Mus musculus claudin 6 (Cldn6), mRNA [NM_018777]	NM_018777	-1.03078
RIKEN cDNA 3830408D24 gene	AK014425	-1.04015
Mus musculus adult male bone cDNA, RIKEN full-length enriched library, clone:	AK036537	-1.003
Mus musculus nuclear receptor subfamily 1, group H, member 2 (Nr1h2), mRN	NM_009473	1.19249
Ras interacting protein 1	AK006830	1.05799
Solute carrier family 39 (metal ion transporter), member 13	AK035296	1.01025
Bri3 binding protein	AK047418	-1.14319
Mus musculus cytoplasmic linker 2 (Cyln2), mRNA [NM_009990]	NM_009990	1.58222
Mus musculus olfactory receptor 912 (Olf912), mRNA [NM_146810]	NM_146810	1.11391
ATPase, Ca ⁺⁺ transporting, plasma membrane 1	AK031677	-1.03791
Mus musculus THO complex 4 (Thoc4), mRNA [NM_011568]	NM_011568	-1.28505
RIKEN cDNA C330027G06 gene	AK012772	-1.16407
Mus musculus RIKEN cDNA 1700011H14 gene (1700011H14Rik), mRNA [NM_	NM_025956	1.01726
Mus musculus protein tyrosine phosphatase, receptor type, O (Ptpro), mRNA [N	NM_011216	-1.11982
Protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacti	AK030621	-1.08812
Mus musculus : F-box protein 44 (Fbxo44), mRNA [NM_173401]	NM_173401	-1.12234
RIKEN cDNA A830025F02 gene	AK048490	1.04259
RIKEN cDNA 1700042B14 gene	AK006680	1.26892
fatso	NM_011936	1.02644
olfactory receptor GA_x5J8B7W2BV0-3116-4045	NM_146263	1.04157
Mus musculus cytochrome c oxidase, subunit VIb (Cox6b), mRNA [NM_025628	NM_025628	-1.02746

Mus musculus GRB2-related adaptor protein (Grap), mRNA [NM_027817]	NM_027817	1.04157
Mus musculus DNA segment, Chr 19, ERATO Doi 678, expressed (D19Ert678)	NM_023731	1.15796
Mus musculus gene trap locus 3 (Gtl3), mRNA [NM_008187]	NM_008187	-1.18298
Mus musculus myelin-associated glycoprotein (Mag), mRNA [NM_010758]	NM_010758	1.15016
Mus musculus solute carrier family 25 (mitochondrial carrier, palmitoylcarnitine t	NM_181328	1.2045
Mus musculus espin (Espn), transcript variant 6, mRNA [NM_019585]	NM_019585	1.10853
Mus musculus mitogen-activated protein kinase 8 interacting protein 3 (Mapk8ip	NM_013931	-1.11198
Mus musculus glutamate receptor, ionotropic, N-methyl D-aspartate-like 1A (Gri	NM_178602	-1.36773
Motile sperm domain containing 2	AK031405	-1.62741
RIKEN cDNA 1700041B01 gene	AK018845	-1.3188
Mus musculus nucleoporin 133 (Nup133), mRNA [NM_172288]	NM_172288	-1.22122
Ribosomal protein S19	AK029810	-1.02947
Mus musculus L259 (L259), mRNA [NM_153513]	NM_153513	-1.467
Regulatory factor X, 2 (influences HLA class II expression)	AK017377	1.15885
RIKEN cDNA 1300007O09 gene	AK004937	1.02451
Mus musculus protein tyrosine phosphatase, non-receptor type 18 (Ptpn18), mF	NM_011206	-1.12079
Mus musculus protein tyrosine phosphatase 4a3 (Ptp4a3), mRNA [NM_008975]	NM_008975	-1.06538
Mus musculus FMS-like tyrosine kinase 3 (Flt3), mRNA [NM_010229]	NM_010229	1.16147
Mus musculus ADP-ribosylation factor 6 (Arf6), mRNA [NM_007481]	NM_007481	1.02742
Mus musculus glutamate receptor, ionotropic, delta 2 (Grid2) interacting protein	NM_133355	1.07081
Activating transcription factor 7	AK003630	1.02392
Mus musculus serine/threonine protein kinase SSTK (Sstk), mRNA [NM_032004]	NM_032004	1.18312
Mus musculus G-protein coupled receptor 65 (Gpr65), mRNA [NM_008152]	NM_008152	-1.0603
Mus musculus RIKEN cDNA 6330407G11 gene (6330407G11Rik), mRNA [NM_	NM_023423	-1.13402
Mus musculus signal transducer and activator of transcription 3 (Stat3), transcrip	NM_213659	1.49869
RIKEN cDNA 2410118I19 gene	AK010772	-1.27707
Mus musculus regucalcin (Rgn), mRNA [NM_009060]	NM_009060	-1.19662
Sex comb on midleg homolog 1	AK030290	-1.15
Ras and Rab interactor 2	NM_028724	-1.14041
Mus musculus cDNA sequence BC038286 (BC038286), mRNA [NM_170755]	NM_170755	1.08674
Mus musculus frizzled homolog 8 (Drosophila) (Fzd8), mRNA [NM_008058]	NM_008058	1.04124
Mus musculus zinc finger proliferation 1 (Zipro1), mRNA [NM_011757]	NM_011757	-1.02586
Mus musculus RIKEN cDNA 1600012F09 gene (1600012F09Rik), mRNA [NM_	NM_025904	-1.10142
Mus musculus 2,3-bisphosphoglycerate mutase (Bpgm), mRNA [NM_007563]	NM_007563	-1.43637
Mus musculus hypothetical protein LOC223773 (LOC223773), mRNA [NM_181	NM_181412	1.18452
Mus musculus mast cell protease 4 (Mcpt4), mRNA [NM_010779]	NM_010779	1.02103
Mus musculus RIKEN cDNA 2810453K03 gene (2810453K03Rik), mRNA [NM_	NM_144517	-1.08452
Unknown		-1.24627
Mus musculus huntingtin interacting protein 1 (Hip1), mRNA [NM_146001]	NM_146001	-1.00843
Mus musculus protocadherin beta 17 (Pcdhb17), mRNA [NM_053142]	NM_053142	-1.76517
Mus musculus amyloid beta (A4) precursor-like protein 2 (Aplp2), mRNA [NM_0	NM_009691	-1.4006
Mus musculus RIKEN cDNA 1110031E24 gene (1110031E24Rik), mRNA [XM_	XM_134599	1.10076
Mus musculus src homology three (SH3) and cysteine rich domain (Stac), mRN	NM_016853	1.10033
Mus musculus myeloid-associated differentiation marker (Myadm), mRNA [NM_	NM_016969	1.03536
Expressed sequence AW121567	AK053575	1.07688
Mus musculus heart and neural crest derivatives expressed transcript 1 (Hand1)	NM_008213	1.04414
Mus musculus RIKEN cDNA 1110018J18 gene (1110018J18Rik), mRNA [NM_	NM_025370	-1.2267
Mus musculus RIKEN cDNA 4931414P19 gene (4931414P19Rik), mRNA [NM_	NM_028890	1.25095
RIKEN cDNA A830018L16 gene	AK081222	-1.05822
Mus musculus GCN5 general control of amino acid synthesis-like 2 (yeast) (Gcr	NM_020004	1.10124
Mus musculus RNA polymerase 1-4 (Rpo1-4), mRNA [NM_009088]	NM_009088	-1.06008
Mus musculus olfactory receptor 1245 (Olfr1245), mRNA [NM_146788]	NM_146788	-1.02986

Mus musculus leucine zipper-EF-hand containing transmembrane protein 1 (Let)	NM_019694	-1.03306
RIKEN cDNA 4933402N03 gene	AK029607	1.11644
Mus musculus RIKEN cDNA 2300006N05 gene (2300006N05Rik), mRNA	[NM_027087]	1.00862
Mus musculus RAB, member of RAS oncogene family-like 3 (Rab13), mRNA	[NM_026297]	-1.08929
Mus musculus deoxyribonuclease II beta (Dnase2b), mRNA	[NM_019957]	-1.00811
Mus musculus TAF13 RNA polymerase II, TATA box binding protein (TBP)-assoc	NM_025444	-1.72619
Mus musculus dipeptidylpeptidase 6 (Dpp6), mRNA	[NM_010075]	1.16212
Mus musculus zinc finger homeodomain 4 (Zfh4), mRNA	[NM_030708]	1.03885
Mus musculus olfactory receptor 56 (Olfr56), mRNA	[NM_010999]	1.02229
Mus musculus centrin 4 (Cetn4), mRNA	[NM_145825]	-1.52019
Mus musculus ELK3, member of ETS oncogene family (Elk3), transcript variant	NM_013508	-1.0339
Mus musculus RIKEN cDNA 2610018G03 gene (2610018G03Rik), mRNA	[NM_133729]	1.00358
Mus musculus A kinase (PRKA) anchor protein (gravin) 12 (Akap12), mRNA	[NM_031185]	-1.2859
Mus musculus tyrosine hydroxylase (Th), mRNA	[NM_009377]	1.0084
Mus musculus RIKEN cDNA 9430023L20 gene (9430023L20Rik), mRNA	[NM_026566]	-1.04607
Mus musculus growth hormone releasing hormone (Ghrh), mRNA	[NM_010285]	1.06925
Mus musculus aggrecan 1 (Agc1), mRNA	[NM_007424]	1.00971
Mus musculus mitogen-activated protein kinase kinase 1 interacting protein 1 (M	NM_019920	-1.29683
Mus musculus lysozyme-like 1 (Lyzl1), mRNA	[NM_026092]	-1.19697
Mus musculus cell division cycle 20 homolog (S. cerevisiae) (Cdc20), mRNA	[NM_023223]	-1.03682
Mus musculus E2F transcription factor 1 (E2f1), mRNA	[NM_007891]	1.07738
Mus musculus RIKEN cDNA 1700001G18 gene (1700001G18Rik), mRNA	[NM_153390]	1.05413
Mus musculus lethal giant larvae homolog (Lglh), mRNA	[NM_008502]	1.01356
RIKEN cDNA 1700009J07 gene	AK005796	1.13271
Mus musculus branched chain aminotransferase 2, mitochondrial (Bcat2), mRN	NM_009737	1.03876
RIKEN cDNA 1700008A04 gene	AK005748	1.16844
Mus musculus CDC28 protein kinase regulatory subunit 2 (Cks2), mRNA	[NM_025415]	-1.18642
Mus musculus eosinophil peroxidase (Epx), mRNA	[NM_007946]	1.01172
Mus musculus RIKEN cDNA 6720467C03 gene (6720467C03Rik), mRNA	[NM_026558]	-1.53296
Mus musculus inositol hexaphosphate kinase 1 (Ihpk1), mRNA	[NM_013785]	1.12459
Mus musculus cytidine monophospho-N-acetylneuraminic acid hydroxylase (Crr	NM_007717	1.05669
Mus musculus splicing factor, arginine/serine-rich 5 (SRp40, HRS) (Sfrs5), mRN	NM_009159	-1.85597
RIKEN cDNA 1700129L13 gene	AK040565	-1.11453
Mus musculus RING1 and YY1 binding protein (Rybp), mRNA	[NM_019743]	-1.36255
Mus musculus synaptonemal complex protein 3 (Sycp3), mRNA	[NM_011517]	-1.17494
Mus musculus PTPRF interacting protein, binding protein 1 (liprin beta 1) (Ppfib)	NM_026221	-1.3146
Mus musculus zinc finger protein 296 (Zfp296), mRNA	[NM_022409]	-1.08682
Mus musculus RIKEN cDNA 4930539E08 gene (4930539E08Rik), mRNA	[NM_172450]	-1.00919
Pirin	AK009757	-1.49778
Mus musculus RIKEN cDNA 2610208M17 gene (2610208M17Rik), mRNA	[NM_181732]	-1.20399
Mus musculus high mobility group 20A (Hmg20a), mRNA	[NM_025812]	-1.26427
Mus musculus cytochrome P450, family 2, subfamily c, polypeptide 29 (Cyp2c2)	NM_007815	1.0067
Mus musculus transcription factor 21 (Tcf21), mRNA	[NM_011545]	-1.05592
Mus musculus RIKEN cDNA 3930402F23 gene (3930402F23Rik), mRNA	[NM_025703]	-1.30691
Mus musculus methyl-CpG binding domain protein 3 (Mbd3), mRNA	[NM_013595]	1.20056
Mus musculus fatty acid amide hydrolase (Faah), mRNA	[NM_010173]	1.08088
RIKEN cDNA 3830402K23 gene	AK014411	1.11366
Mus musculus RIKEN cDNA 4930455C21 gene (4930455C21Rik), mRNA	[NM_024273]	1.08857
Mus musculus CUG triplet repeat, RNA binding protein 1, mRNA (cDNA clone H	BC021393	-1.29069
Mus musculus retroviral integration site 2 (Ris2), mRNA	[NM_026014]	-1.09254
Mus musculus acetyl-Coenzyme A dehydrogenase, medium chain (Acadm), mRN	NM_007382	-1.15943
LIM domain only 7	AK053129	1.09735

Mus musculus nuclear factor of activated T-cells 5 (Nfat5), mRNA [NM_018823]	NM_018823	1.0667
Mus musculus RIKEN cDNA 1700073K01 gene (1700073K01Rik), mRNA [NM_026626]	NM_026626	-1.27848
CCR4-NOT transcription complex, subunit 1	AK048177	-1.00415
Mus musculus RIKEN cDNA D630047F21 gene (D630047F21Rik), mRNA [NM_177576]	NM_177576	1.11485
Mus musculus phosphodiesterase 3B, cGMP-inhibited (Pde3b), mRNA [NM_0111055]	NM_0111055	1.08885
Mus musculus transcriptional regulator, SIN3B (yeast) (Sin3b), mRNA [NM_009188]	NM_009188	1.08904
Mus musculus G protein-regulated inducer of neurite outgrowth 1 (Gprin1), mRNA [NM_012014]	NM_012014	1.09832
Mus musculus RIKEN cDNA 1700007I06 gene (1700007I06Rik), mRNA [NM_027031]	NM_027031	1.02254
Complement component 5, receptor 1	NM_007577	-1.15263
Sex comb on midleg-like 2 (Drosophila)	AF285577	-1.00856
Mus musculus RIKEN cDNA 3100002B05 gene (3100002B05Rik), mRNA [NM_026664]	NM_026664	1.1787
TSPY-like 2	NM_145936	1.00174
Mus musculus ES cells cDNA, RIKEN full-length enriched library, clone:C33000	AK082760	-1.02035
Mus musculus tetratricopeptide repeat domain 1 (Ttc1), mRNA [NM_133795]	NM_133795	-1.47019
Mus musculus adenylosuccinate synthetase 2, non muscle (Adss2), mRNA [NM_007422]	NM_007422	-1.59932
RIKEN cDNA B930096F20 gene	AK081173	1.05392
Mus musculus RIKEN cDNA 5530600A18 gene (5530600A18Rik), mRNA [NM_027799]	NM_027799	-1.08532
Transmembrane 6 superfamily member 2	BC024498	1.10104
WD repeat domain 26	AK050757	1.02868
RIKEN cDNA 4631426J05 gene	NM_029935	1.14926
Mus musculus RIKEN cDNA 4933403M22 gene (4933403M22Rik), mRNA [NM_028742]	NM_028742	1.21774
Mus musculus cornichon-like (Drosophila) (Cnil), mRNA [NM_009920]	NM_009920	1.11559
Mus musculus dopamine receptor 4 (Drd4), mRNA [NM_007878]	NM_007878	1.05034
Mus musculus RIKEN cDNA 0610007P06 gene (0610007P06Rik), mRNA [NM_026304]	NM_026304	-1.24101
Mus musculus translocator of inner mitochondrial membrane 44 (Timm44), mRNA [NM_011592]	NM_011592	-1.11014
Mus musculus caveolin 2 (Cav2), mRNA [NM_016900]	NM_016900	-2.17447
Mus musculus expressed sequence AI839550 (AI839550), mRNA [NM_198027]	NM_198027	1.00157
Mus musculus SRY-box containing gene 9 (Sox9), mRNA [NM_011448]	NM_011448	-1.07074
Mus musculus cleavage and polyadenylation specific factor 5 (Cpsf5), mRNA [NM_026623]	NM_026623	-1.21806
RIKEN cDNA 2310075M15 gene	AK054255	-1.10418
Mus musculus olfactory receptor 1510 (Olfr1510), mRNA [NM_146431]	NM_146431	1.1912
CDNA clone MGC:96262 IMAGE:30546156, complete cds	AK037524	1.21959
Mus musculus RIKEN cDNA 6030404E16 gene (6030404E16Rik), mRNA [NM_172765]	NM_172765	-1.33727
Mus musculus RIKEN cDNA D430039N05 gene (D430039N05Rik), mRNA [NM_175514]	NM_175514	-1.17125
CCR4-NOT transcription complex, subunit 2	BC063105	-1.37986
Mus musculus mitochondrial carrier homolog 2 (C. elegans) (Mtch2), mRNA [NM_019758]	NM_019758	-1.17712
Mus musculus phosphatidylinositol 3-kinase (Pdc), mRNA [NM_024458]	NM_024458	1.04792
Von Willebrand factor homolog	AK044921	1.01148
Mus musculus vomeronasal 1 receptor, C6 (V1rc6), mRNA [NM_053236]	NM_053236	1.00141
Mus musculus kelch-like 7 (Drosophila) (Klh7), mRNA [NM_026448]	NM_026448	-1.92073
DNA segment, Chr 5, ERATO Doi 40, expressed	AK044446	1.06188
Mus musculus adrenergic receptor, alpha 2a (Adra2a), mRNA [NM_007417]	NM_007417	1.18171
Mus musculus deleted in polyposis 1 (Dp1), mRNA [NM_007874]	NM_007874	-1.32876
RIKEN cDNA E030045M14 gene	AK017670	-1.02597
Mus musculus synapse associated protein 1 (Syap1), mRNA [NM_025932]	NM_025932	-1.32249
Mus musculus centromere autoantigen H (Cenph), mRNA [NM_021886]	NM_021886	1.06028
G-protein coupled receptor 173	AK032906	-1.0074
Mus musculus zinc finger, DHC domain containing 7 (Zdhc7), mRNA [NM_133967]	NM_133967	1.09238
16 days neonate heart cDNA, RIKEN full-length enriched library, clone:D830036	AK052909	-1.59127
Mus musculus metastasis associated 1 (Mta1), mRNA [NM_054081]	NM_054081	1.03502
tuberoinfundibular peptide of 39 residues (TIP39) preprohormone	NM_053256	1.02983
Mus musculus potassium voltage-gated channel, shaker-related subfamily, member 10	NM_010595	1.22404

Mus musculus olfactory receptor 73 (Olf73), mRNA [NM_054090]	NM_054090	1.10359
Cytochrome P450, family 2, subfamily e, polypeptide 1	NM_021282	-1.09931
Mus musculus RIKEN cDNA 1700027M21 gene (1700027M21Rik), mRNA [NM_025499]	NM_025499	-1.0513
Protein tyrosine phosphatase, receptor type, C polypeptide-associated protein	NM_016933	1.04729
Mus musculus olfactory receptor 1333 (Olf1333), mRNA [NM_207157]	NM_207157	1.01894
Mus musculus ATPase, H+ transporting, V1 subunit C, isoform 1 (Atp6v1c1), mRNA [NM_025494]	NM_025494	-1.4052
Mus musculus RIKEN cDNA 4933409D10 gene (4933409D10Rik), mRNA [NM_025749]	NM_025749	1.10613
Isoprenylcysteine carboxyl methyltransferase	AF209926	1.15971
RIKEN cDNA 9330101J02 gene	AK029726	1.1268
Mus musculus ADP-ribosylation factor 4 (Arf4), mRNA [NM_007479]	NM_007479	-1.55192
ADAMTS-like 3	AK081635	-1.02413
Mus musculus solute carrier family 22 (organic cation transporter), member 13 (Slc22a13), mRNA [NM_133980]	NM_133980	-1.12431
Mus musculus RIKEN cDNA 2310005E10 gene (2310005E10Rik), mRNA [NM_172398]	NM_172398	-1.35212
OLFACTORY RECEPTOR MOR191-1. [Source:RefSeq;Acc:NM_146590] [ENSMUST00000005]	NM_146590	1.0955
FLN29 gene product	NM_172275	1.04841
Mus musculus adrenergic receptor, beta 3 (Adrb3), mRNA [NM_013462]	NM_013462	1.09719
Mus musculus RNA binding motif protein 4 (Rbm4), mRNA [NM_009032]	NM_009032	-1.10525
Mus musculus RIKEN cDNA 1110018M03 gene (1110018M03Rik), mRNA [NM_026271]	NM_026271	-1.28507
RIKEN cDNA A230065J02 gene	AK007954	-1.20664
Mus musculus pericentrin mRNA, complete cds.	U05823	-1.26459
WD repeat domain 19	AK052303	1.12317
Mus musculus peroxisomal membrane protein 2 (Pmp2), mRNA [NM_008993]	NM_008993	-1.01309
Expressed sequence AI481105	AK031145	1.02344
RIKEN cDNA 2310028O11 gene	AK030343	-1.01146
Pleckstrin homology domain containing, family A (phosphoinositide binding specific protein) 1	AK078040	1.23367
Unknown		-1.28397
Mus musculus RAS-homolog enriched in brain (Rheb), mRNA [NM_053075]	NM_053075	-1.43829
Mus musculus hairless (Hr), mRNA [NM_021877]	NM_021877	1.00161
Phosphoinositide-3-kinase, class 3	AK053110	1.01994
Mus musculus cysteine and glycine-rich protein 3 (Csrp3), mRNA [NM_013808]	NM_013808	-1.17994
Mus musculus serine (or cysteine) proteinase inhibitor, clade B, member 9b (Serpinb9), mRNA [NM_011452]	NM_011452	1
RIKEN cDNA 4932704I17 gene	AK016584	1.12686
Mus musculus zinc finger protein 523 (Zfp523), mRNA [NM_172617]	NM_172617	1.0765
Mus musculus exosome component 2 (Exosc2), mRNA [NM_144886]	NM_144886	-1.1164
Mus musculus crystallin, mu (Crym), mRNA [NM_016669]	NM_016669	-1.01517
Myosin XVIIIb	AK016515	-1.00438
Mus musculus secretory carrier membrane protein 4 (Scamp4), mRNA [NM_019575]	NM_019575	1.11123
Mus musculus forkhead box P4 (Foxp4), mRNA [NM_028767]	NM_028767	1.3637
RIKEN cDNA 2410012C07 gene	AK046817	1.03654
Mus musculus thymidylate kinase family LPS-inducible member (Tyki), mRNA [NM_020557]	NM_020557	1.05302
Expressed sequence AI428795	AK081382	1.03181
AAG45199.1 B4 olfactory receptor [NP302154]		-1.0654
RIKEN cDNA D730050B12 gene	BY730955	-1.18632
Mus musculus secretoglobin, family 3A, member 2 (Scgb3a2), mRNA [NM_054038]	NM_054038	-1.01927
Mus musculus olfactory receptor 421 (Olf421), mRNA [NM_146720]	NM_146720	1.01036
Mus musculus RIKEN cDNA 1700129C05 gene (1700129C05Rik), mRNA [NM_026461]	NM_026461	1.02343
Mus musculus RIKEN cDNA E330028A19 gene (E330028A19Rik), mRNA [NM_172896]	NM_172896	-1.12601
Mus musculus selectin, lymphocyte (Sell), mRNA [NM_011346]	NM_011346	-1.06482
Mus musculus olfactory receptor 698 (Olf698), mRNA [NM_146602]	NM_146602	1.07556
RIKEN cDNA 5530400C23 gene	AK017421	1.34283
Mus musculus expressed sequence AI746432 (AI746432), mRNA [NM_207216]	NM_207216	-1.02487
RIKEN cDNA 4933406G12 gene	AK014752	1.0447

Mus musculus similar to synaptic SAPAP-interacting protein Synamon (LOC243XM_145592)		1.01099
Mus musculus peptidoglycan recognition protein 1 (Pglyrp1), mRNA [NM_009400]	NM_009400	-1.00792
RIKEN cDNA 2310051F07 gene	AK075904	-1.03636
Mus musculus cDNA sequence BC006965 (BC006965), mRNA [NM_146031]	NM_146031	1.20234
RIKEN cDNA C430046P22 gene	AK039124	1.13763
RIKEN cDNA 4930555F03 gene	AK016128	1.06029
Mus musculus RIKEN cDNA B830009D23 gene (B830009D23Rik), mRNA [NM_175285]	NM_175285	-1.11848
Mus musculus RIKEN cDNA 2410018M14 gene (2410018M14Rik), mRNA [NM_025885]	NM_025885	-1.10334
RIKEN cDNA 2200002J24 gene	BC048568	-1.11671
Mus musculus RIKEN cDNA C330039G02 gene (C330039G02Rik), mRNA [NM_172699]	NM_172699	-1.00673
Inactive X specific transcripts	X59289	1.12204
Mus musculus olfactory receptor 552 (Olfr552), mRNA [NM_147102]	NM_147102	1.09643
V-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)	L47240	-1.05381
Mus musculus olfactory receptor 437 (Olfr437), mRNA [NM_146296]	NM_146296	1.03022
Mus musculus RIKEN cDNA 2310079N02 gene (2310079N02Rik), mRNA [NM_025636]	NM_025636	-1.07663
Mus musculus phosphoglycerate mutase 1 (Pgam1), mRNA [NM_023418]	NM_023418	-1.04818
Mus musculus secreted phosphoprotein 2, 24kDa (SPP2), mRNA [NM_029269]	NM_029269	-1.04414
Mus musculus RIKEN cDNA 2310040C09 gene (2310040C09Rik), mRNA [NM_178618]	NM_178618	1.04476
Mus musculus gene rich cluster, C3f gene (Grcc3f), mRNA [NM_145130]	NM_145130	1.00051
Mus musculus geminin (Gmnn), mRNA [NM_020567]	NM_020567	-1.25062
Mus musculus myogenic factor 6 (Myf6), mRNA [NM_008657]	NM_008657	1.06226
Mus musculus matrix metalloproteinase 19 (Mmp19), mRNA [NM_021412]	NM_021412	-1.00449
Mus musculus guanylate cyclase activator 1B (Guca1b), mRNA [NM_146079]	NM_146079	1.21543
Mus musculus angiomin 1 (Amot), mRNA [NM_153319]	NM_153319	-1.07284
Mus musculus F-box and WD-40 domain protein 4 (Fbxw4), mRNA [NM_013907]	NM_013907	1.00056
Mus musculus pleckstrin homology domain-containing, family A (phosphoinositide 3-kinase)	NM_031256	-1.23693
G protein-coupled receptor 125	BC019649	1.03981
RAB26, member RAS oncogene family	AK080607	-1.02082
Mus musculus olfactory receptor 13 (Olfr13), mRNA [NM_146652]	NM_146652	1.00414
RIKEN cDNA 1810060D16 gene	BC024419	-1.02428
CD79B antigen	NM_008339	-1.12029
Mus musculus luteinizing hormone beta (Lhb), mRNA [NM_008497]	NM_008497	1.03302
Mus musculus calponin 2 (Cnn2), mRNA [NM_007725]	NM_007725	1.27153
Mus musculus cDNA sequence BC005662 (BC005662), mRNA [NM_145376]	NM_145376	1.09427
Mus musculus transcription elongation factor B (SIII), polypeptide 1 (Tceb1), mRNA [NM_026456]	NM_026456	-1.36024
RIKEN cDNA 5430417L22 gene	AK077391	-1.20369
Mus musculus similar to odorant receptor K4h12 (LOC235243), mRNA [XM_146770]	XM_146770	1.01169
RIKEN cDNA A130030D10 gene	AK035617	1.03394
Mus musculus RIKEN cDNA 0610016J10 gene (0610016J10Rik), mRNA [NM_1133771]	NM_1133771	-1.30184
RIKEN cDNA D330017J20 gene	AK122459	-1.08848
Mus musculus RIKEN cDNA A930014K01 gene (A930014K01Rik), mRNA [NM_175537]	NM_175537	1.42466
Mus musculus tubulin, alpha 3 (Tuba3), mRNA [NM_009446]	NM_009446	1.05098
Mus musculus dehydrogenase/reductase (SDR family) member 7 (Dhrs7), mRNA [NM_025522]	NM_025522	-1.36968
Mus musculus expressed sequence AI035571 (AI035571), mRNA [NM_146033]	NM_146033	1.02998
DNA segment, Chr 2, ERATO Doi 217, expressed	BC048537	1.02549
E1A binding protein p300	AK040384	1.0471
Mus musculus dicarbonyl L-xylulose reductase (Dcxr), mRNA [NM_026428]	NM_026428	-1.07736
RIKEN cDNA 2700082O15 gene	BC020182	-1.01091
Mus musculus RIKEN cDNA 2810027O19 gene (2810027O19Rik), mRNA [NM_026613]	NM_026613	-1.00653
Mus musculus formyl peptide receptor 1 (Fpr1), mRNA [NM_013521]	NM_013521	1.00289
Mus musculus myotubularin related protein 9 (Mtmr9), mRNA [NM_177594]	NM_177594	-1.02425
RIKEN cDNA 0610011F06 gene	AK002535	-1.09699

Proteasome (prosome, macropain) activator subunit 4	BC004575	-1.21656
Mus musculus gastrulation brain homeobox 1 (Gbx1), mRNA [NM_015739]	NM_015739	1.19126
Mus musculus oxidized low density lipoprotein (lectin-like) receptor 1 (Olr1), mRNA [NM_138648]	NM_138648	-1.53542
Mus musculus phosphatidylinositol membrane-associated (Pitpnm), mRNA [NM_008851]	NM_008851	-1.37377
Mus musculus myelin transcription factor 1-like (Myt1l), mRNA [NM_008666]	NM_008666	-1.06579
Mus musculus capping protein (actin filament) muscle Z-line, beta (Capzb), mRNA [NM_009798]	NM_009798	-1.08947
Mus musculus death associated protein 3 (Dap3), mRNA [NM_022994]	NM_022994	-1.33889
Mus musculus 9 days embryo whole body cDNA, RIKEN full-length enriched library AK050799	AK050799	1.03203
Mus musculus ATPase, Cu ⁺⁺ transporting, alpha polypeptide (Atp7a), mRNA [NM_009726]	NM_009726	-1.06377
Mus musculus olfactory receptor 851 (Olfr851), mRNA [NM_146905]	NM_146905	1.05754
CDNA sequence BC026657	AK020491	-1.05611
Mus musculus RIKEN cDNA D630048P19 gene (D630048P19Rik), mRNA [NM_0207525]	NM_0207525	1.08655
Mus musculus IL2-inducible T-cell kinase (Itk), mRNA [NM_010583]	NM_010583	-1.19831
Mus musculus RIKEN cDNA C030006K11 gene (C030006K11Rik), mRNA [NM_0176828]	NM_0176828	1.08483
RIKEN cDNA B230208H17 gene	BC023692	1.15993
Mus musculus upregulated during skeletal muscle growth 5 (Usmg5), mRNA [NM_023211]	NM_023211	-1.16101
Mus musculus vacuolar protein sorting 29 (S. pombe) (Vps29), mRNA [NM_01919780]	NM_01919780	-1.29427
Mus musculus zinc finger protein of the cerebellum 4 (Zic4), mRNA [NM_009571]	NM_009571	1.38604
Mus musculus Harvey rat sarcoma virus oncogene 1 (Hras1), mRNA [NM_0082284]	NM_0082284	1.24467
Mus musculus exportin 7 (Xpo7), mRNA [NM_023045]	NM_023045	-1.07618
Mus musculus RIKEN cDNA 1700080E11 gene (1700080E11Rik), mRNA [NM_028562]	NM_028562	1.05122
Mus musculus Wiskott-Aldrich syndrome homolog (human) (Was), mRNA [NM_009515]	NM_009515	1.05329
Mus musculus vesicle-associated membrane protein, associated protein A (VapA), mRNA [NM_013933]	NM_013933	-1.19272
Phenylalanine-tRNA synthetase-like, alpha subunit	BC006862	1.02967
Poly A binding protein, cytoplasmic 2	NM_011033	1.03149
Mus musculus small proline-rich protein 2B (Sprr2b), mRNA [NM_011469]	NM_011469	1.25268
Mus musculus olfactory receptor 1317 (Olfr1317), mRNA [NM_146448]	NM_146448	1.11163
Mus musculus aristaless related homeobox gene (Drosophila) (Arx), mRNA [NM_007492]	NM_007492	1.13396
RAS-like, family 10, member B	AK045997	1.14974
Mus musculus EF hand calcium binding protein 2 (Efcfb2), mRNA [NM_054095]	NM_054095	1.08799
Mus musculus regulator of G-protein signalling 10 (Rgs10), mRNA [NM_026418]	NM_026418	-1.01617
RAP2B, member of RAS oncogene family	AK046664	1.07592
Angiopoietin-like 1	AK027978	-1.05521
Mus musculus guanine nucleotide binding protein (G protein), gamma 7 subunit	NM_010319	1.01955
RAB36, member RAS oncogene family	AK038445	-1.14127
transcript increased in spermiogenesis 78	NM_144827	1.03997
Mus musculus leucine-rich repeat-containing 8 (Lrrc8), mRNA [NM_177725]	NM_177725	-1.07508
Mus musculus cyclin H (Ccnh), mRNA [NM_023243]	NM_023243	-1.05636
Mus musculus RIKEN cDNA 2210404D11 gene (2210404D11Rik), mRNA [NM_0178397]	NM_0178397	-1.23644
RIKEN cDNA 4930578I07 gene	AK016303	1.10726
RIKEN cDNA 1700026J04 gene	AK006388	-1.21839
Mus musculus annexin A1 (Anxa1), mRNA [NM_010730]	NM_010730	-1.73582
Mus musculus olfactory receptor 1214 (Olfr1214), mRNA [NM_146897]	NM_146897	-1.01113
AarF domain containing kinase 1	AK014278	1.12557
Mus musculus RIKEN cDNA 6720460I06 gene (6720460I06Rik), mRNA [NM_0172518]	NM_0172518	-1.23443
Mus musculus similar to KIAA1290 protein (LOC239017), mRNA [XM_138959]	XM_138959	1.04586
Vasodilator-stimulated phosphoprotein	AF084548	1.00287
Mus musculus lymphoid nuclear protein related to AF4 (Laf4), mRNA [XM_283603]	XM_283603	-1.07663
Nuclear respiratory factor 1	AK006956	1.08376
RIKEN cDNA 493055F24Rik	NM_026298	1.06785
Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched library AK012975	AK012975	-1.02555
Mus musculus RIKEN cDNA A630026F21 gene (A630026F21Rik), mRNA [NM_0199025]	NM_0199025	-1.27011

RIKEN cDNA 4930505H01 gene	AK015703	1.01422
Mus musculus casein delta (Csnd), mRNA [NM_009973]	NM_009973	1.03038
Mus musculus RIKEN cDNA D430029B21 gene (D430029B21Rik), mRNA [NM_NM_177268]		1.00831
Mus musculus RIKEN cDNA 4930517G15 gene (4930517G15Rik), mRNA [NM_NM_029061]		1.04228
Mus musculus DNA segment, Chr 2, ERATO Doi 485, expressed (D2Ert485e), NM_212450		-1.04451
Mus musculus RIKEN cDNA 2310012M18 gene (2310012M18Rik), mRNA [NM_NM_027315]		-1.26737
RIKEN cDNA 2410124H12 gene	AK010774	1.00608
Mus musculus cathepsin 8 (Cts8), mRNA [NM_019541]	NM_019541	-1.00596
Mus musculus paired related homeobox 1 (Prrx1), mRNA [NM_011127]	NM_011127	1.42031
Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 8 (Ppp1r8), RIKEN cDNA 2410104I19 gene	NM_146154	1.01139
RIKEN cDNA 2410104I19 gene	AK013342	1.07907
Mus musculus genomic screened homeo box 1 (Gsh1), mRNA [NM_008178]	NM_008178	1.22866
Transmembrane 4 superfamily member 11	AK028337	1.04981
butyrophilin 2	NM_175938	1.02174
RIKEN cDNA 2610528E23 gene	AK019808	1.03902
Dystrophin, muscular dystrophy	AK042705	1.15407
Mus musculus seminal vesicle antigen (Sva), mRNA [NM_009299]	NM_009299	1.05248
Low density lipoprotein receptor-related protein 2	AF197160	1.03694
Mus musculus olfactory receptor 195 (Olfr195), mRNA [NM_146998]	NM_146998	1.06206
Mus musculus RIKEN cDNA B230317C12 gene (B230317C12Rik), mRNA [NM_NM_019833]		1.02496
Mus musculus neurexin I (Nrxn1), mRNA [NM_020252]	NM_020252	-1.31235
Mus musculus RIKEN cDNA 2700043M03 gene (2700043M03Rik), mRNA [NM_NM_152814]		-1.10041
Mus musculus arylalkylamine N-acetyltransferase (Aanat), mRNA [NM_009591]	NM_009591	-1.18424
Mus musculus olfactory receptor 401 (Olfr401), mRNA [NM_146706]	NM_146706	1.02708
Mus musculus potassium inwardly-rectifying channel, subfamily J, member 16 (KCNJ16), NM_010604		-1.13975
SRY-box containing gene 11	AK017690	1.02288
RIKEN cDNA C030003D03 gene	AK021041	-1.11211
Mus musculus O-6-methylguanine-DNA methyltransferase (Mgmt), mRNA [NM_NM_008598]		1.14468
Mus musculus RIKEN cDNA 2310015I08 gene (2310015I08Rik), mRNA [NM_019974]		1.04235
RIKEN cDNA 1700025B16 gene	AK006322	-1.40478
Mus musculus copine VI (Cpne6), mRNA [NM_009947]	NM_009947	1.05921
Mus musculus histocompatibility 13 (H13), mRNA [NM_010376]	NM_010376	1.14577
Mus musculus RIKEN cDNA 4933421E18 gene (4933421E18Rik), mRNA [NM_NM_027699]		1.08637
Mus musculus cutC copper transporter homolog (E.coli) (Cutc), mRNA [NM_025530]	NM_025530	-1.48329
T-cell activation Rho GTPase-activating protein	NM_147155	1.10854
Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched library	AK047344	1.07834
Mus musculus cytochrome P450, family 7, subfamily a, polypeptide 1 (Cyp7a1), NM_007824		1.09993
Mus musculus guanine nucleotide binding protein, beta 1 (Gnb1), mRNA [NM_008142]	NM_008142	-1.1917
Mus musculus adenylate cyclase 2 (Adcy2), mRNA [NM_153534]	NM_153534	1.06723
Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 16 (Dhx16), mRNA [NM_026987]	NM_026987	-1.26181
Mus musculus RIKEN cDNA 2900093B09 gene (2900093B09Rik), mRNA [NM_NM_021387]		-1.14815
PDZ and LIM domain 7	BC045528	1.29488
Mus musculus NHL repeat containing 2 (Nhlrc2), mRNA [NM_025811]	NM_025811	-1.68317
Mus musculus RIKEN cDNA 2310057D15 gene (2310057D15Rik), mRNA [NM_NM_026421]		-1.41234
Mus musculus RIKEN cDNA C330029B10 gene (C330029B10Rik), mRNA [NM_NM_183033]		-1.07047
Gene model 962, (NCBI)	AK007900	-1.03517
Mus musculus fibroblast growth factor 16 (Fgf16), mRNA [NM_030614]	NM_030614	1
Mus musculus chorionic somatomammotropin hormone 2 (Csh2), mRNA [NM_008865]	NM_008865	1.13122
Mus musculus polymerase (DNA directed), delta 2, regulatory subunit (Pold2), n	NM_008894	1.07683
glucuronyl C5-epimerase	AK003758	-1.28464
Mus musculus paraoxonase 1 (Pon1), mRNA [NM_011134]	NM_011134	-1.61524
Mus musculus intersectin 1 (SH3 domain protein 1A) (Itsn1), mRNA [NM_010581]	NM_010581	1.02121

Mus musculus RIKEN cDNA 4921513E08 gene (4921513E08Rik), mRNA [NM_	NM_025725	-1.03704
Mus musculus zinc finger protein 339 (Zfp339), transcript variant A, mRNA [NM_	NM_026924	1.19603
Mus musculus protein phosphatase 1, catalytic subunit, beta isoform (Ppp1cb),	NM_172707	-1.37299
Mus musculus oxysterol binding protein-like 1A (Osbp1a), mRNA [NM_020573]	NM_020573	-1.37513
Mus musculus tumor differentially expressed 1 (Tde1), mRNA [NM_012032]	NM_012032	-1.56086
Mus musculus nuclear receptor binding factor 1 (Nrbf1), mRNA [NM_025297]	NM_025297	-1.05163
Mus musculus cysteine and tyrosine-rich protein 1 (Cyyr1), mRNA [NM_144853]	NM_144853	1.00988
Avian musculoaponeurotic fibrosarcoma (v-maf) AS42 oncogene homolog	BC034073	-1.0894
Mus musculus CD68 antigen (Cd68), mRNA [NM_009853]	NM_009853	1.0111
RIKEN cDNA 2900060B22 gene	AK013730	-1.01222
Mus musculus serine/arginine repetitive matrix 2 (Srrm2), mRNA [NM_175229]	NM_175229	-1.1681
Mus musculus adult female vagina cDNA, RIKEN full-length enriched library, clc	AK037055	-1.01015
BAT2 domain containing 1	BC050871	-1.11634
Mus musculus paired box gene 1 (Pax1), mRNA [NM_008780]	NM_008780	1.08174
RUN and TBC1 domain containing 1	AK078057	-1.03113
Mus musculus toll-like receptor adaptor molecule 2 (Ticam2), mRNA [NM_17331]	NM_173394	-1.18828
Mus musculus enoyl Coenzyme A hydratase domain containing 1 (Echdc1), mR	NM_025855	-1.07477
Mus musculus G protein-coupled receptor, family C, group 5, member B (Gprc5	NM_022420	-1.12054
Mus musculus RIKEN cDNA 5830458K16 gene (5830458K16Rik), mRNA [NM_	NM_023386	-1.21642
VIPS_MOUSE Vasoactive intestinal polypeptide receptor 2 precursor (VIP-R-2) (Pituitary aden)		-1.12493
Mus musculus G protein-coupled receptor 49 (Gpr49), mRNA [NM_010195]	NM_010195	1.01366
Mus musculus sidekick homolog 1 (chicken) (Sdk1), mRNA [NM_177879]	NM_177879	-1.10059
Mus musculus mitochondrial ribosomal protein S34 (Mrps34), mRNA [NM_0232]	NM_023260	-1.00522
Mus musculus RIKEN cDNA A030009A06 gene (A030009A06Rik), mRNA [NM_	NM_173777	1.07967
Mus musculus aldo-keto reductase family 1, member C12 (Akr1c12), mRNA [NM_	NM_013777	-1.36465
Mus musculus caspase recruitment domain family, member 15 (Card15), mRNA	NM_145857	1.00545
Mus musculus RIKEN cDNA A730011L01 gene (A730011L01Rik), mRNA [NM_	NM_177394	1.20189
Mus musculus small EDRK-rich factor 2 (Serf2), mRNA [NM_011354]	NM_011354	1.17123
Mus musculus neurochondrin (Ncdn), mRNA [NM_011986]	NM_011986	1.11082
Mus musculus histone 1, H2be (Hist1h2be), mRNA [NM_178194]	NM_178194	1.04567
Mus musculus tripartite motif protein 27 (Trim27), mRNA [NM_009054]	NM_009054	1.26504
Unknown		1.00161
Mus musculus olfactory receptor 507 (Olfr507), mRNA [NM_146743]	NM_146743	1.06839
Mus musculus RIKEN cDNA 1200016B10 gene (1200016B10Rik), mRNA [NM_	NM_025819	-1.24157
Mus musculus protein phosphatase 2, regulatory subunit B (B56), beta isoform	(NM_198168	-1.06843
Mus musculus actin, beta, cytoplasmic (Actb), mRNA [NM_007393]	NM_007393	1.01795
Calcium channel, voltage-dependent, L type, alpha 1S subunit	L06234	1.05319
Mus musculus olfactory receptor 1115 (Olfr1115), mRNA [NM_146297]	NM_146297	1.09562
Ubiquitin-activating enzyme E1-domain containing 1	AK034280	1.0789
Mus musculus aminoacylase 1 (Acy1), mRNA [NM_025371]	NM_025371	1.06082
Mus musculus RIKEN cDNA E430007K15 gene (E430007K15Rik), transcript va	NM_211358	1.04627
Mus musculus WD repeat domain, X-linked 1 (Wdrx1), mRNA [NM_172372]	NM_172372	-1.286
RIKEN cDNA C230079D11 gene	AK082659	1.05471
Lemur tyrosine kinase 2	AK039738	-1.27627
Mus musculus frizzled homolog 4 (Drosophila) (Fzd4), mRNA [NM_008055]	NM_008055	1.23253
Olfactory receptor 544	NM_020289	1.12384
RIKEN cDNA 4930563C04 gene	AK016197	-1.01467
MutL homolog 3 (E coli)	AK029786	-1.03459
Mus musculus cytochrome b-561 domain containing 2 (Cyb561d2), mRNA [NM_	NM_019720	-1.10398
Nuclear antigen Sp100	BC028649	-1.08169
Mus musculus zygote arrest 1 (Zar1), mRNA [NM_174877]	NM_174877	-1.0351
Mus musculus RIKEN cDNA 4930532D21 gene (4930532D21Rik), mRNA [NM_	NM_180958	1.0989

Unknown		1.0498
Mus musculus olfactory receptor 1260 (Olfr1260), mRNA [NM_146981]	NM_146981	1.06141
Mus musculus RIKEN cDNA 3110001D03 gene (3110001D03Rik), mRNA [NM_025849]	NM_025849	-1.10281
V-abl Abelson murine leukemia viral oncogene 2 (arg, Abelson-related gene)	U40827	1.03088
RIKEN cDNA 2310002L13 gene	AK009098	1.01349
Mus musculus thioredoxin-like 6 (Txnl6), mRNA [NM_145598]	NM_145598	-1.04262
Mus musculus ciliary neurotrophic factor (Cntf), transcript variant 2, mRNA [NM_053007]	NM_053007	-1.03136
RIKEN cDNA 2810474O19 gene	AK031989	1.08071
SMC hinge domain containing 1	AK129181	-1.38994
Mus musculus RIKEN cDNA 2410005H09 gene (2410005H09Rik), mRNA [NM_146183]	NM_146183	1.0047
Mus musculus START domain containing 3 (Stard3), mRNA [NM_021547]	NM_021547	1.00172
Mus musculus Sin3-associated polypeptide 18 (Sap18), mRNA [NM_009119]	NM_009119	-1.3786
Mus musculus RIKEN cDNA 2510048L02 gene (2510048L02Rik), mRNA [NM_025977]	NM_025977	1.03488
RIKEN cDNA 5033430I15 gene	AK017206	-1.00576
Mus musculus olfactory receptor 615 (Olfr615), mRNA [NM_147080]	NM_147080	1.02542
Mus musculus gap junction membrane channel protein epsilon 1 (Gje1), mRNA [NM_080450]	NM_080450	-1.12344
RIKEN cDNA 5430427N15 gene	AK014953	-1.01616
Expressed sequence AA536743	BC024679	-1.18161
Keratin complex 2, basic, gene 18	AK009099	1.02389
Mus musculus RIKEN cDNA 5031403H21 gene (5031403H21Rik), mRNA [NM_172623]	NM_172623	-1.14632
Unknown		1.06591
Mus musculus thyroid stimulating hormone receptor (Tshr), mRNA [NM_011648]	NM_011648	1.03859
Mus musculus chitinase, di-N-acetyl- (Ctbs), mRNA [NM_028836]	NM_028836	1
RIKEN cDNA 9430073N08 gene	AK020485	-1.22502
Mus musculus ephrin A5 (Efna5), transcript variant 2, mRNA [NM_010109]	NM_010109	1.09781
Glutamine fructose-6-phosphate transaminase 1	AK013141	-1.20585
RIKEN cDNA A330103N21 gene	AK087668	1.17906
Mus musculus SRY-box containing gene 3 (Sox3), mRNA [NM_009237]	NM_009237	1.12978
Mus musculus RIKEN cDNA 0610007P14 gene (0610007P14Rik), mRNA [NM_021446]	NM_021446	-1.20439
Mus musculus sorting nexin 8 (Snx8), mRNA [NM_172277]	NM_172277	1.07405
ATP-binding cassette, sub-family F (GCN20), member 3	AK030626	1.03399
Mus musculus methyl-CpG binding domain protein 1 (Mbd1), mRNA [NM_013594]	NM_013594	-1.12575
Mus musculus deoxynucleotidyltransferase, terminal, interacting protein 1 (Dntt), mRNA [NM_133763]	NM_133763	1.11554
Mus musculus RIKEN cDNA 1110017I16 gene (1110017I16Rik), mRNA [NM_026754]	NM_026754	1.05164
Mus musculus prolactin-like protein F (Prlpf), mRNA [NM_011168]	NM_011168	-1.05374
Mus musculus RIKEN cDNA 5430401O09 gene (5430401O09Rik), mRNA [NM_176923]	NM_176923	-1.14851
RIKEN cDNA 4930413P14 gene	AK015134	1.08089
similar to mNori-2p	AK013049	-1.00977
RIKEN cDNA 1700012B15 gene	AK007702	1.00936
ATP-binding cassette, sub-family A (ABC1), member 13	AK044229	1.02169
RIKEN cDNA 1110014C03 gene	BC006774	-1.37196
Mus musculus guanine nucleotide binding protein, alpha 12 (Gna12), mRNA [NM_010302]	NM_010302	1.13699
Mus musculus Rhesus blood group-associated B glycoprotein (Rhbg), mRNA [NM_021375]	NM_021375	1.03698
Mus musculus RIKEN cDNA 3230401D17 gene (3230401D17Rik), mRNA [NM_025699]	NM_025699	-1.34844
RIKEN cDNA C230040D10 gene	AK034257	-1.00795
RIKEN cDNA E430026A01 gene	BC032291	-1.05303
Casein kinase 1, alpha 1	AK017353	-1.30379
Mus musculus heat shock protein 2 (Hspb2), mRNA [NM_024441]	NM_024441	-1.01235
Mus musculus syntaxin 6 (Stx6), mRNA [NM_021433]	NM_021433	-1.04511
Mus musculus potassium voltage-gated channel, Shal-related family, member 1	NM_008423	1.10735
RIKEN cDNA 9230111I22 gene	AK034066	1.01703
Mus musculus RIKEN cDNA 2310028N02 gene (2310028N02Rik), mRNA [NM_025864]	NM_025864	-1.33437

Mus musculus pumilio 1 (<i>Drosophila</i>) (<i>Pum1</i>), mRNA [NM_030722]	NM_030722	-1.2103
Mus musculus RIKEN cDNA 4930550C14 gene (4930550C14Rik), mRNA [NM_029247]	NM_029247	1.1703
Mus musculus dual specificity phosphatase-like 15 (<i>Dusp15</i>), mRNA [NM_145744]	NM_145744	-1.00098
Mus musculus EST AA881470 (AA881470), mRNA [NM_172724]	NM_172724	1.10158
Mus musculus RIKEN cDNA 4933421I07 gene (4933421I07Rik), mRNA [NM_0227702]	NM_0227702	1.12546
Mus musculus ATPase, (Na ⁺)/K ⁺ transporting, beta 4 polypeptide (<i>Atp1b4</i>), mRNA [NM_133690]	NM_133690	-1.01896
Mus musculus 5-hydroxytryptamine (serotonin) receptor 5B (<i>Htr5b</i>), mRNA [NM_010483]	NM_010483	-1.0014
Sec23 interacting protein	BC066195	1.0038
Mus musculus epsin 2 (<i>Epn2</i>), mRNA [NM_010148]	NM_010148	-1.10463
Mus musculus E74-like factor 1 (<i>Elf1</i>), mRNA [NM_007920]	NM_007920	-1.3648
Mus musculus FK506 binding protein-like (<i>Fkbp1</i>), mRNA [NM_019873]	NM_019873	-1.32719
Testis expressed gene 10	BC006867	-1.11286
EMI domain containing 1	NM_080595	1.05349
Mus musculus RIKEN cDNA 6530418L21 gene (6530418L21Rik), mRNA [NM_175398]	NM_175398	1.04206
Mus musculus sarcosine dehydrogenase (<i>Sardh</i>), mRNA [NM_138665]	NM_138665	-1.02168
Mus musculus NIMA (never in mitosis gene a)-related expressed kinase 7 (<i>Nek7</i>), mRNA [NM_021605]	NM_021605	1.10193
Mus musculus cDNA sequence BC018465 (BC018465), mRNA [NM_144890]	NM_144890	1.08453
Mus musculus glucagon-like peptide 2 receptor (<i>Glp2r</i>), mRNA [NM_175681]	NM_175681	1.03005
Mus musculus chorionic somatomammotropin hormone 1 (<i>Csh1</i>), mRNA [NM_008864]	NM_008864	1.11002
Mus musculus ring finger protein 40 (<i>Rnf40</i>), mRNA [NM_172281]	NM_172281	1.1282
RIKEN cDNA 9330186A19 gene	AF346502	1.01404
Mus musculus angio-associated migratory protein (<i>Aamp</i>), mRNA [NM_146110]	NM_146110	1.11943
RIKEN cDNA 2010109A12 gene	AK008356	1.06869
Phospholipase A2, group IVB (cytosolic)	BC016255	-1.02128
Mus musculus RIKEN cDNA 1110004D19 gene (1110004D19Rik), mRNA [NM_178939]	NM_178939	-1.38211
Multimerin 1	BC046425	-1.09211
Tetratricopeptide repeat domain 5	BC025610	-1.05971
Spectrin alpha 2	BC027791	-1.01459
Mus musculus olfactory receptor 1395 (<i>Olfr1395</i>), mRNA [NM_146877]	NM_146877	1.09778
Mus musculus Kruppel-like factor 3 (basic) (<i>Klf3</i>), mRNA [NM_008453]	NM_008453	-1.10049
Mus musculus RIKEN cDNA 1700022L09 gene (1700022L09Rik), mRNA [NM_025853]	NM_025853	-1.1248
BC031435 Chpt1 protein { <i>Mus musculus</i> }, partial (11%) [TC949232]		-1.18534
Mus musculus RIKEN cDNA 4931428D14 gene (4931428D14Rik), mRNA [NM_025740]	NM_025740	-1.49173
Ubiquitin specific protease 40	AK050239	1.08017
Mus musculus mitochondrial translation optimization 1 homolog (<i>S. cerevisiae</i>) (NM_026658)	NM_026658	1.03813
Mus musculus Ras and a-factor-converting enzyme 1 homolog (<i>S. cerevisiae</i>) (FNM_023131)	FNM_023131	-1.02715
Mus musculus cytochrome P450, family 39, subfamily a, polypeptide 1 (<i>Cyp39a1</i>), mRNA [NM_018887]	NM_018887	-1.21731
Mus musculus undifferentiated embryonic cell transcription factor 1 (<i>Utf1</i>), mRNA [NM_009482]	NM_009482	1.12872
Mus musculus RIKEN cDNA 1700027N10 gene (1700027N10Rik), mRNA [NM_029338]	NM_029338	-1.14092
Mus musculus fatty acid binding protein 4, adipocyte (<i>Fabp4</i>), mRNA [NM_024406]	NM_024406	-1.61068
Mus musculus cDNA sequence BC003277 (BC003277), mRNA [NM_145402]	NM_145402	1.09692
Mus musculus CD53 antigen (<i>Cd53</i>), mRNA [NM_007651]	NM_007651	-1.1784
Mus musculus phosphorylase kinase gamma (<i>Phkg</i>), mRNA [NM_011079]	NM_011079	1.08646
Mus musculus phospholipase A2, group IB, pancreas (<i>Pla2g1b</i>), mRNA [NM_011107]	NM_011107	1.01807
0 day neonate lung cDNA, RIKEN full-length enriched library, clone:E030045I03	AK053224	1.04489
Ras association (RalGDS/AF-6) domain family 6	AK005472	-1.23522
Mus musculus fucosidase, alpha-L- 1, tissue (<i>Fuca</i>), mRNA [NM_024243]	NM_024243	1.03748
Mus musculus hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-5 isomerase (<i>Hsd17b4</i>), mRNA [NM_133943]	NM_133943	1.02657
Mus musculus histone 1, H2bc (<i>Hist1h2bc</i>), mRNA [NM_023422]	NM_023422	-2.0005
Mus musculus olfactory receptor 516 (<i>Olfr516</i>), mRNA [NM_146725]	NM_146725	1.0209
C-type lectin domain family 4, member g	AK079992	1.00456
Mus musculus thioredoxin domain containing 9 (<i>Txndc9</i>), mRNA [NM_172054]	NM_172054	-1.10664

Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, (AK021163	-1.24457
Mus musculus hypothetical protein 4732456M09 (4732456M09), mRNA [XM_11XM_111790	1.24987
Mus musculus RIKEN cDNA 9230106L14 gene (9230106L14Rik), mRNA [NM_ NM_138685	1.11949
F-box and leucine-rich repeat protein 10	BC065090 1.08
Mus musculus advillin (Avil), mRNA [NM_009635]	NM_009635 1.37375
Mus musculus RIKEN cDNA 1110064L07 gene (1110064L07Rik), mRNA [NM_ NM_175401	-1.16447
Mus musculus RIKEN cDNA 4933412D19 gene (4933412D19Rik), mRNA [NM_ NM_026229	-1.29125
Mus musculus trinucleotide repeat containing 11 (THR-associated protein) (Tnrc	NM_021521 -1.08943
Synaptotagmin 11	AK017936 -1.17116
Mus musculus chemokine (C-C motif) receptor 6 (Ccr6), mRNA [NM_009835]	NM_009835 1.01249
Abelson helper integration site	AK005991 -1.31922
Mus musculus intercellular adhesion molecule 4, Landsteiner-Wiener blood gro	NM_023892 -1.01887
Mus musculus RIKEN cDNA 4930485D02 gene (4930485D02Rik), mRNA [NM_ NM_175225	-1.05506
Mus musculus tyrosine kinase, non-receptor, 2 (Tnk2), mRNA [NM_016788]	NM_016788 1.09356
Mus musculus proteasome (prosome, macropain) 26S subunit, ATPase 2 (Psm	NM_011188 -1.19232
Mus musculus RIKEN cDNA 1700112P19 gene (1700112P19Rik), mRNA [NM_ NM_026459	1.09203
Spermatogenesis associated glutamate (E)-rich protein 1, pseudogene 1	BC030042 -1.13194
Mus musculus activin receptor interacting protein 1 (Acvrin1), mRNA [NM_015	NM_015823 1.11145
Mus musculus tumor necrosis factor, alpha-induced protein 8 (Tnfaip8), mRNA [NM_134131	-1.85054
Mus musculus CD22 antigen (Cd22), mRNA [NM_009845]	NM_009845 1.01222
Mitochondrial ribosomal protein S18B	AK034502 1.36177
Mus musculus olfactory receptor 659 (Olfr659), mRNA [NM_147050]	NM_147050 1.03951
Mus musculus serine (or cysteine) proteinase inhibitor, clade B, member 7 (Ser	NM_027548 1.05845
Mus musculus cytochrome P450, family 1, subfamily a, polypeptide 1 (Cyp1a1),	NM_009992 -2.00016
RIKEN cDNA 4930473A06 gene	AK015563 1.146
UI-M-CD1-azq-c-04-0-UI.s1 NIH_BMAP_Ret2_N Mus musculus cDNA clone UI-	BE953138 -1.06898
Mus musculus RIKEN cDNA E130304F04 gene (E130304F04Rik), mRNA [NM_ NM_175538	1.086
Mus musculus frequenin homolog (Drosophila) (Freq), mRNA [NM_019681]	NM_019681 -1.11304
Kalirin, RhoGEF kinase	AK045394 1.01961
Mus musculus RIKEN cDNA 2610528A15 gene (2610528A15Rik), mRNA [NM_ NM_028151	-1.31238
Mus musculus RIKEN cDNA 2310050B20 gene (2310050B20Rik), mRNA [NM_ NM_025537	1.09082
Mus musculus RIKEN cDNA 4930503B16 gene (4930503B16Rik), mRNA [NM_ NM_030052	1.05929
Neogenin	NM_008684 1.01506
RIKEN cDNA 2310016K04 gene	AK009391 -1.01811
RIKEN cDNA 2900092E17 gene	NM_030240 -1.06156
Mus musculus adaptor protein complex AP-1, sigma 1 (Ap1s1), mRNA [NM_00	NM_007457 -1.10269
Mus musculus RIKEN cDNA 9530049C15 gene (9530049C15Rik), mRNA [NM_ NM_030139	1.04386
Mus musculus olfactory receptor 76 (Olfr76), mRNA [NM_146682]	NM_146682 1.04171
Mus musculus signal peptide, CUB domain, EGF-like 1 (Scube1), mRNA [NM_	NM_022723 1.07513
Misshapen-like kinase 1 (zebrafish)	NM_176893 1.09969
Mus musculus receptor-interacting serine-threonine kinase 3 (Ripk3), mRNA [NI	NM_019955 -1.04086
RIKEN cDNA 130106K10 gene	BC054548 1.06618
Mus musculus laminin, gamma 2 (Lamc2), mRNA [NM_008485]	NM_008485 -1.2217
Mus musculus SPARC related modular calcium binding 1 (Smoc1), mRNA [NM	NM_022316 -1.15281
RIKEN cDNA 9130221D24 gene	AK020284 1.02169
Mus musculus microtubule associated serine/threonine kinase-like (Mastl), mRN	NM_025979 1.19008
Mus musculus 2'-5' oligoadenylate synthetase 1F (Oas1f), mRNA [NM_145153]	NM_145153 -1.01294
Mus musculus reticulon 2 (Z-band associated protein) (Rtn2), mRNA [NM_0136	NM_013648 1.05179
Mus musculus glucose-6-phosphatase, catalytic (G6pc), mRNA [NM_008061]	NM_008061 1.12052
Mus musculus ARP8 actin-related protein 8 homolog (S. cerevisiae) (Actr8), mR	NM_027493 -1.07743
Mus musculus transmembrane protein 4 (Tmem4), mRNA [NM_019953]	NM_019953 -1.21395
Mus musculus RIKEN cDNA D930014A20 gene (D930014A20Rik), mRNA [NM_ NM_178811	1.07949

Mus musculus 10 days embryo whole body cDNA, RIKEN full-length enriched lit	AK011808	1.08099
Mus musculus keratin associated protein 13 (Krtap13), mRNA [NM_010671]	NM_010671	1.05365
Heparin-binding EGF-like growth factor	NM_010415	-1.39857
Mus musculus corin (Corin), mRNA [NM_016869]	NM_016869	-1.01503
Mus musculus Ros1 proto-oncogene (Ros1), mRNA [NM_011282]	NM_011282	-1.18221
RIKEN cDNA 3110043L15 gene	AK014173	1.08067
Mus musculus coatomer protein complex, subunit zeta 1 (Copz1), mRNA [NM_019817]	NM_019817	1.1197
Mus musculus RIKEN cDNA 1110014F12 gene (1110014F12Rik), mRNA [NM_026743]	NM_026743	1.10295
Mus musculus Fc receptor-like 3 (Fcrl3), mRNA [NM_144559]	NM_144559	1.07301
Mus musculus Bcl2-associated athanogene 2 (Bag2), mRNA [NM_145392]	NM_145392	-1.0623
Zinc finger protein 36, C3H type-like 1	M58566	-1.19408
Mus musculus tribbles homolog 2 (Drosophila) (Trib2), mRNA [NM_144551]	NM_144551	1.0408
RIKEN cDNA 2010004B12 gene	AK008083	1.09966
RIKEN cDNA 5730427N09 gene	AK050937	-1.00933
Mus musculus olfactory receptor 2 (Olf2r), mRNA [NM_010983]	NM_010983	1.06868
Mus musculus RIKEN cDNA 4930465P12 gene (4930465P12Rik), mRNA [NM_029122]	NM_029122	1.03701
Mus musculus transient receptor potential cation channel, subfamily C, member	NM_016984	1.03342
Mus musculus CD9 antigen (Cd9), mRNA [NM_007657]	NM_007657	-1.56935
Mus musculus RIKEN cDNA 4930500C15 gene (4930500C15Rik), mRNA [NM_183014]	NM_183014	1.08778
Mus musculus RIKEN cDNA 1500035H01 gene (1500035H01Rik), mRNA [NM_023831]	NM_023831	-1.2412
Mus musculus RIKEN cDNA 2010007H12 gene (2010007H12Rik), mRNA [NM_027242]	NM_027242	1.03525
Nebulin	X70032	1.06481
Mus musculus RIKEN cDNA 2610510D13 gene (2610510D13Rik), transcript va	NM_146130	-1.06869
V-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)	AF059177	1.25421
Mus musculus dentin matrix protein 1 (Dmp1), mRNA [NM_016779]	NM_016779	1.17565
Mus musculus RIKEN cDNA 2610025M23 gene (2610025M23Rik), mRNA [NM_029578]	NM_029578	-1.18164
Mus musculus NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 2 (Ndufb2),	NM_026612	-1.29236
hypothetical gene supported by AK041995	NM_198635	1.00328
RIKEN cDNA 1300006C19 gene	AK016943	-1.11992
RIKEN cDNA 1700016M24 gene	AK006048	-1.00781
Mus musculus RIKEN cDNA 1110039B18 gene (1110039B18Rik), mRNA [NM_144525]	NM_144525	1.06975
Deleted in liver cancer 1	AF178078	1.03378
RIKEN cDNA 9130004C02 gene	AK046843	1.11509
Mus musculus insulin-like growth factor binding protein 2 (Igfbp2), mRNA [NM_008342]	NM_008342	1.18992
Mus musculus RIKEN cDNA 2900001O04 gene (2900001O04Rik), mRNA [NM_026213]	NM_026213	-1.29882
Double cortin and calcium/calmodulin-dependent protein kinase-like 1	NM_019978	1.04714
Establishment of cohesion 1 homolog 1 (S. cerevisiae)	AK049589	-1.75685
RIKEN cDNA 0710005I19 gene	BC048228	1.02216
Mus musculus glycophorin C (Gypc), mRNA [NM_027863]	NM_027863	1.03801
Mus musculus RIKEN cDNA 1700052H20 gene (1700052H20Rik), mRNA [NM_175200]	NM_175200	1
Mus musculus RIKEN cDNA 6330419J24 gene (6330419J24Rik), mRNA [NM_183030]	NM_183030	1.20068
Mus musculus Flt3 interacting zinc finger protein 1 (Fiz1), mRNA [NM_011813]	NM_011813	1.07792
Mus musculus methylmalonic aciduria (cobalamin deficiency) type A (Mmaa), m	NM_133823	1.24258
Desmoplakin	AK009006	1.01741
Mus musculus hypothetical protein LOC223825 (LOC223825), mRNA [XM_127127]	XM_127127	-1.13463
Mus musculus fibrillin 2 (Fbn2), mRNA [NM_010181]	NM_010181	-1.03733
Mus musculus prolactin-like protein K (Prlpk), mRNA [NM_025532]	NM_025532	-1.01853
Protein tyrosine phosphatase, receptor type Z, polypeptide 1	AJ133130	1.22
Mus musculus inositol polyphosphate-5-phosphatase A (Inpp5a), mRNA [NM_183144]	NM_183144	-1.12337
Mus musculus pregnancy upregulated non-ubiquitously expressed CaM kinase	NM_012040	-1.06751
Testis enhanced gene transcript	AK088683	1.17579
RIKEN cDNA 5830405M20 gene	AK017899	1.0712

Mus musculus RIKEN cDNA 2810417J12 gene (2810417J12Rik), mRNA [NM_029798]	NM_029798	-1.03639
Major facilitator superfamily domain containing 1	NM_025813	-1.12922
Mus musculus RAB10, member RAS oncogene family (Rab10), mRNA [NM_016676]	NM_016676	-1.0874
Mus musculus opsin 1 (cone pigments), medium-wave-sensitive (color blindness)	NM_008106	1.12355
Mus musculus dual specificity phosphatase 19 (Dusp19), mRNA [NM_024438]	NM_024438	1.06367
Mus musculus chemokine (C-C motif) ligand 24 (Ccl24), mRNA [NM_019577]	NM_019577	-1.12068
Mus musculus transforming growth factor beta 1 induced transcript 4 (Tgfb1i4), mRNA [NM_009366]	NM_009366	-1.18177
Mus musculus thyroid autoantigen (G22p1), mRNA [NM_010247]	NM_010247	1.14368
Mus musculus RIKEN cDNA 1700113O17 gene (1700113O17Rik), mRNA [NM_026627]	NM_026627	-1.12229
Mus musculus mutS homolog 2 (E. coli) (Msh2), mRNA [NM_008628]	NM_008628	-1.41079
RIKEN cDNA 0610009B10 gene	AK057630	-1.01331
Mus musculus protein tyrosine phosphatase 4a1 (Ptp4a1), mRNA [NM_011200]	NM_011200	-1.72573
Mus musculus cAMP responsive element binding protein 3-like 1 (Creb3l1), mRNA [NM_011957]	NM_011957	-1.0186
RIKEN cDNA 6030468B19 gene	AK020081	-1.03796
Mus musculus RIKEN cDNA 5730453I16 gene (5730453I16Rik), mRNA [NM_172302]	NM_172302	1.11325
Mus musculus F-box protein 46 (Fbxo46), mRNA [NM_175530]	NM_175530	1.05212
Mus musculus dual specificity phosphatase 14 (Dusp14), mRNA [NM_019819]	NM_019819	-1.01146
Ly6/Plaur domain containing 2	AK002226	1.15871
DNA segment, Chr 2, Brigham & Women's Genetics 1356 expressed	AK129301	-1.11229
Mus musculus RIKEN cDNA 1700020L24 gene (1700020L24Rik), mRNA [NM_025492]	NM_025492	1.11257
Mus musculus GATA binding protein 4 (Gata4), mRNA [NM_008092]	NM_008092	1.24074
ATPase, Class I, type 8B, member 3	BC049570	-1.02441
Mus musculus G protein-coupled receptor 97 (Gpr97), mRNA [NM_173036]	NM_173036	-1.00162
Mus musculus SWI/SNF related, matrix associated, actin dependent regulator of transcription 1 (Smad4), mRNA [NM_020618]	NM_020618	-1.06013
Mus musculus arginase 1, liver (Arg1), mRNA [NM_007482]	NM_007482	-1.2304
Mus musculus menage a trois 1 (Mnat1), mRNA [NM_008612]	NM_008612	-1.38073
Mus musculus chaperonin subunit 7 (eta) (Cct7), mRNA [NM_007638]	NM_007638	-1.05352
Mus musculus bone morphogenetic protein 7 (Bmp7), mRNA [NM_007557]	NM_007557	1.05909
Mus musculus 1-acylglycerol-3-phosphate O-acyltransferase 1 (lysophosphatidyl acyltransferase 1) (Lpat1), mRNA [NM_018862]	NM_018862	1.10492
Mus musculus granzyme D (Gzmd), mRNA [NM_010372]	NM_010372	1.03852
Formin-like 2	BC048004	-1.24562
Mus musculus RIKEN cDNA 1700019P01 gene (1700019P01Rik), mRNA [NM_172818]	NM_172818	-1.01564
Mus musculus RIKEN cDNA 2310007F12 gene (2310007F12Rik), mRNA [NM_175146]	NM_175146	-1.13099
Mus musculus RIKEN cDNA 2610021A01 gene (2610021A01Rik), mRNA [XM_355888]	XM_355888	1.02775
Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetyltransferase 1 (Uga1), mRNA [NM_013814]	NM_013814	-1.06571
Mus musculus G-protein coupled receptor 88 (Gpr88), mRNA [NM_022427]	NM_022427	1.02469
PHD finger protein 21B	AK042863	1.07593
Mus musculus cytochrome P450, family 2, subfamily b, polypeptide 13 (Cyp2b1), mRNA [NM_007813]	NM_007813	-1.12289
Mus musculus Hermansky-Pudlak syndrome 6 (Hps6), mRNA [NM_176785]	NM_176785	-1.00096
Rhabdoid tumor deletion region gene 1	AK017008	1.0865
Mus musculus TBC1 domain family, member 15 (Tbc1d15), mRNA [NM_025706]	NM_025706	-1.6873
Mus musculus defensin beta 3 (Defb3), mRNA [NM_013756]	NM_013756	1.05518
Unknown		2.02203
Mus musculus ankyrin repeat domain 2 (stretch responsive muscle) (Ankrd2), mRNA [NM_020033]	NM_020033	1.05007
SEC3-like 1 (S. cerevisiae)	BC024678	-1.03422
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK029975	AK029975	1.07095
RIKEN cDNA 7530403E16 gene	AK033039	-1.07975
Unknown		1.11036
Mus musculus calmeglin (Clgn), mRNA [NM_009904]	NM_009904	1.13227
Glutaminase	AK047664	1.06136
Mus musculus frizzled homolog 5 (Drosophila) (Fzd5), mRNA [NM_022721]	NM_022721	1.01274
Mus musculus 12 days embryo male wolffian duct includes surrounding region c	AK032720	-1.00303

Unknown		1.12039
Filamin, beta	AK050046	2.19298
Mus musculus olfactory receptor 1121 (Olfr1121), mRNA [NM_146348]	NM_146348	1.00094
Similar to immunoglobulin light chain variable region	U55685	1.03198
Mus musculus zinc finger protein 346 (Zfp346), mRNA [NM_012017]	NM_012017	-1.18102
Mus musculus cyclin-dependent kinase 6 (Cdk6), mRNA [NM_009873]	NM_009873	-1.00811
hypothetical protein [5430410O10]		-1.05959
RIB43A domain with coiled-coils 2	AK016311	-1.02184
Dynein, cytoplasmic, heavy chain 2	AK084796	1.09849
Hypothetical protein A730046J16	BC052061	1.01719
Mus musculus zinc finger, matrin-like (Zfml), mRNA [NM_008717]	NM_008717	-1.5222
Mus musculus DNA segment, Chr X, Immunex 46, expressed (DXImx46e), mRNA [NM_138604]	NM_138604	1.02262
Mus musculus RIKEN cDNA 6430573F11 gene (6430573F11Rik), mRNA [NM_176952]	NM_176952	1.04489
RIKEN cDNA 9030205A07 Gene	AK033439	1.14448
Unknown		1.10151
Mus musculus RIKEN cDNA 4930535E21 gene (4930535E21Rik), mRNA [NM_029212]	NM_029212	1.10553
RIKEN cDNA 1110059M19 gene	AK004321	1.04144
Mannan-binding lectin serine protease 2	AJ250369	-1.07067
Mus musculus TATA box binding protein (Tbp)-associated factor, RNA polymerase II	NM_020614	-1.42034
MKL (megakaryoblastic leukemia)/myocardin-like 1	AK044188	-1.14569
Mus musculus matrix extracellular phosphoglycoprotein with ASARM motif (bon)	NM_053172	1.07555
Mus musculus autocrine motility factor receptor (Amfr), mRNA [NM_011787]	NM_011787	-1.72732
Mus musculus Eph receptor A3 (Epha3), mRNA [NM_010140]	NM_010140	-1.01647
Mus musculus wingless related MMTV integration site 10b (Wnt10b), mRNA [NM_011718]	NM_011718	-1.00332
poly(A)-binding protein, cytoplasmic pseudogene	AK048750	1.03436
Mus musculus X-prolyl aminopeptidase (aminopeptidase P) 1, soluble (Xpnpep1)	NM_133216	1.23864
Mus musculus peptidylprolyl isomerase (cyclophilin)-like 4 (Ppil4), mRNA [NM_026141]	NM_026141	-1.31041
metastasis associated gene 2	NM_016664	-1.01413
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK016064	AK016064	1.06343
Mus musculus potassium channel, subfamily K, member 4 (Kcnk4), mRNA [NM_008431]	NM_008431	1.11977
Mus musculus adaptor-related protein complex 3, delta subunit (Ap3d), mRNA [NM_007460]	NM_007460	1.04059
Mus musculus POU domain, class 3, transcription factor 3 (Pou3f3), mRNA [NM_008900]	NM_008900	-1.05215
Mus musculus nitric oxide synthase 3, endothelial cell (Nos3), mRNA [NM_008713]	NM_008713	1.23462
Mus musculus DNA segment, Chr 15, ERATO Doi 747, expressed (D15Ert747)	NM_029643	-1.01019
Mus musculus G protein-coupled receptor 26 (Gpr26), mRNA [NM_173410]	NM_173410	1.01781
Mus musculus olfactory receptor 577 (Olfr577), mRNA [NM_147109]	NM_147109	1.0728
Similar to hypothetical protein FLJ10781	BU609689	1.04779
Melanoma associated antigen (mutated) 1	NM_023431	1.20937
Forkhead box O3a	NM_019740	-1.02016
Transmembrane protein 45a	NM_019631	-1.17576
Mus musculus formiminotransferase cyclodeaminase (Ftcd), mRNA [NM_080845]	NM_080845	-1.05927
Mus musculus olfactory receptor 187 (Olfr187), mRNA [NM_146322]	NM_146322	1.04104
gag=antigen LEC-A, env [mice, CBA/Ht cell line, mRNA, 4619 nt].	S74315	1.01268
Mus musculus RIKEN cDNA 4922503N01 gene (4922503N01Rik), mRNA [NM_153392]	NM_153392	1.06191
Protein phosphatase 1A, magnesium dependent, alpha isoform	AK013507	-1.5012
Mus musculus olfactory receptor 1280 (Olfr1280), mRNA [NM_146908]	NM_146908	1.01764
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK017105	AK017105	1.08371
Mus musculus cytochrome P450, family 2, subfamily j, polypeptide 13 (Cyp2j13)	NM_145548	1.00943
Mus musculus coxsackievirus and adenovirus receptor (Cxadr), mRNA [NM_009988]	NM_009988	1.00704
Mus musculus camello-like 1 (Cml1), mRNA [NM_023160]	NM_023160	-1.26357
Mus musculus ras homolog gene family, member f (Rhof), mRNA [NM_175092]	NM_175092	1.07228
Mus musculus zinc finger protein 146 (Zfp146), mRNA [NM_011980]	NM_011980	-1.24768

Mus musculus zinc finger, DHHC domain containing 15 (Zdhhc15), mRNA [NM_0175358]	1.08188
Mus musculus EDAR (ectodysplasin-A receptor)-associated death domain (Eda) similar to Cytochrome P450 2D9 (CYP2D9) (P450-16-alpha) (CA) (Testosterone AK078880)	1.13715
Proline synthetase co-transcribed	-1.00135
Mus musculus expressed sequence AI256711 (AI256711), mRNA [NM_023059]	NM_054057 -1.25406
Mus musculus spinocerebellar ataxia 1 homolog (human) (Sca1), mRNA [NM_009124]	NM_023059 -1.05873
Mus musculus low density lipoprotein-related protein 1B (deleted in tumors) (Lrp1b), mRNA [NM_053011]	NM_009124 -1.01917
Mus musculus pyrophosphatase (Pyp), mRNA [NM_026438]	NM_053011 1.11278
Mus musculus lipase, hepatic (Lipc), mRNA [NM_008280]	NM_026438 -1.08471
Mus musculus RIKEN cDNA 1700006H02 gene (1700006H02Rik), mRNA [NM_173367]	NM_008280 1.17744
hypothetical protein 4932414J04	NM_173367 1.047
Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 1 (Ugt1a1), mRNA [NM_144908]	NM_172792 1.06078
Mus musculus cDNA sequence BC021917 (BC021917), mRNA [NM_145496]	NM_144908 -1.03459
Mus musculus heme oxygenase (decycling) 1 (Hmox1), mRNA [NM_010442]	NM_145496 1.04111
Mus musculus protocadherin gamma subfamily A, 7 (Pcdhga7), mRNA [NM_033359]	NM_010442 -1.0511
Mus musculus vomeronasal 1 receptor, C19 (V1rc19), mRNA [NM_134174]	NM_033359 1.13623
MUP3_MOUSE Major urinary protein 3 precursor (MUP 3) (Non-group 1/group 2 MUP15). [Mo]	NM_134174 1.03542
UI-M-CG0p-boh-b-07-0-UI.s1 NIH_BMAP_Ret4_S2 Mus musculus cDNA clone BF464414	NM_134174 -1.0398
Mus musculus nuclear factor, erythroid derived 2 (Nfe2l3), mRNA [NM_008685]	NM_144908 1.07351
Mus musculus olfactory receptor 1167 (Olfr1167), mRNA [NM_146294]	NM_008685 1.01894
Mus musculus RIKEN cDNA 2300002A13 gene (2300002A13Rik), mRNA [NM_133712]	NM_146294 -1.01632
Mus musculus intercellular adhesion molecule 2 (Icam2), mRNA [NM_010494]	NM_133712 -1.07446
Mus musculus histidine rich calcium binding protein (Hrc), mRNA [NM_010473]	NM_010494 -1.07279
RIKEN cDNA 4930588N13 gene	NM_010473 -1.22561
Mus musculus extracellular matrix protein 1 (Ecm1), mRNA [NM_007899]	AK087319 1.05748
Mus musculus reduced expression 3 (Rex3), mRNA [NM_009052]	NM_007899 -1.11556
RIKEN cDNA 1700001K19 gene	NM_009052 -1.24293
Mus musculus RIKEN cDNA 2410004F06 gene (2410004F06Rik), mRNA [NM_028034]	BC048462 1.12152
Mus musculus olfactory receptor 457 (Olfr457), mRNA [NM_146987]	NM_028034 1.13698
Mus musculus RIKEN cDNA 1810017F10 gene (1810017F10Rik), mRNA [NM_025452]	NM_146987 1.03021
Mus musculus RIKEN cDNA 1700045I19 gene (1700045I19Rik), mRNA [NM_028842]	NM_025452 -1.19896
Mus musculus muscle glycogen phosphorylase (Pygm), mRNA [NM_011224]	NM_028842 1.01788
Mus musculus topoisomerase (DNA) III beta (Top3b), mRNA [NM_011624]	NM_011224 1.15314
Mus musculus polypyrimidine tract binding protein 1 (Ptbp1), mRNA [NM_008956]	NM_011624 -1.01621
Mus musculus purinergic receptor P2X, ligand-gated ion channel, 2 (P2rx2), mRNA [NM_153400]	NM_008956 1.00865
Mus musculus general transcription factor II I (Gtf2i), mRNA [NM_010365]	NM_153400 1.27988
Mus musculus carboxypeptidase Z (Cpz), mRNA [NM_153107]	NM_010365 1.02909
Mus musculus similar to Cytochrome P450 2J3 (CYP2J3) (LOC242546), mRNA XM_143892	NM_153107 1.13866
Mus musculus phospholipase C, gamma 2 (Plcg2), mRNA [NM_172285]	NM_143892 -1.10186
Mus musculus arachidonate 5-lipoxygenase activating protein (Alox5ap), mRNA [NM_009663]	NM_172285 1.05086
Mus musculus olfactory receptor 1157 (Olfr1157), mRNA [NM_146849]	NM_009663 -1.14823
Nudix (nucleoside diphosphate linked moiety X)-type motif 4	NM_146849 -1.00251
Mus musculus junctophilin 2 (Jph2), mRNA [NM_021566]	BC030004 1.04537
Mus musculus general transcription factor II H, polypeptide 1 (Gtf2h1), mRNA [NM_008186]	NM_021566 1.10041
Mus musculus cDNA sequence BC008155 (BC008155), mRNA [NM_145410]	NM_008186 1.07452
Mus musculus cytidine 5'-triphosphate synthase (Ctps), mRNA [NM_016748]	NM_145410 -1.15234
Mus musculus a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motifs (ADAMTS-1), mRNA [NM_175501]	NM_016748 -1.46602
RIKEN cDNA 6530421E24 gene	NM_175501 1.00763
Mus musculus solute carrier family 25 (mitochondrial carrier, adenine nucleotide) member 1 (Slc25a25), mRNA [NM_015829]	AK078370 -1.52928
5-methyltetrahydrofolate-homocysteine methyltransferase	NM_015829 -1.0478
RIKEN cDNA 2310015N21 gene	AK037599 1.11591
Expressed sequence AI849053	AK082517 1.18825
	AK079063 1.04877

Mus musculus expressed sequence AW240854 (AW240854), mRNA [NM_146028]	NM_146028	1.1275
Mus musculus forkhead box D4 (Foxd4), mRNA [NM_008022]	NM_008022	-1.14881
Mus musculus prostaglandin-endoperoxide synthase 1 (Ptgs1), mRNA [NM_008969]	NM_008969	-1.28588
13 days embryo male testis cDNA, RIKEN full-length enriched library, clone:603 AK031275	AK031275	-1.00413
Mus musculus lactate dehydrogenase 1, A chain (Ldh1), mRNA [NM_010699]	NM_010699	1.04335
Mus musculus RIKEN cDNA 1700012A03 gene (1700012A03Rik), mRNA [NM_029587]	NM_029587	1.14071
Mus musculus histone1, H3d (Hist1h3d), mRNA [NM_178204]	NM_178204	-1.2054
Mus musculus islet cell autoantigen 1 (Ica1), mRNA [NM_010492]	NM_010492	-1.07155
TEA domain family member 4	D87966	-1.09791
Mus musculus transcription factor CP2-like 3 (Tcfcp2l3), mRNA [NM_026496]	NM_026496	-1.32084
RIKEN cDNA 1700066M21 gene	AK006906	1.04277
Mus musculus complement component 1, r subcomponent-like (C1rl), mRNA [NM_181344]	NM_181344	1.12257
Mus musculus angiopoietin 2 (Agpt2), mRNA [NM_007426]	NM_007426	-1.19322
Mus musculus nuclear factor of kappa light chain gene enhancer in B-cells 1, p1 (NF- κ B1), mRNA [NM_008689]	NM_008689	-1.4419
Mus musculus low density lipoprotein receptor-related protein 5 (Lrp5), mRNA [NM_008513]	NM_008513	-1.28724
Mus musculus interleukin 11 (Il11), mRNA [NM_008350]	NM_008350	1.07407
Mus musculus spermatogenesis associated 4 (Spata4), mRNA [NM_133711]	NM_133711	-1.06307
Mus musculus translocase of inner mitochondrial membrane 9 homolog (yeast) (Timm9), mRNA [NM_013895]	NM_013895	-1.05353
Mus musculus WD repeat domain 40A (Wdr40a), mRNA [NM_026893]	NM_026893	-1.0776
RIKEN cDNA 5830431A10 gene	BC064072	-1.07875
Thioredoxin domain containing 11	NM_134105	-1.23822
CAMP responsive element binding protein 3-like 2	AK082964	-1.35271
Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 12 (Nudix12), mRNA [NM_026497]	NM_026497	1.04161
Cell division cycle associated 8	AK076422	1.03737
Mus musculus RIKEN cDNA 4732479N06 gene (4732479N06Rik), mRNA [NM_172540]	NM_172540	-1.36315
Expressed sequence AI662501	AI591943	1.04189
Mus musculus matrix metalloproteinase 3 (Mmp3), mRNA [NM_010809]	NM_010809	-1.23855
Mus musculus expressed sequence AW413625 (AW413625), mRNA [NM_026640]	NM_026640	-1.44157
RIKEN cDNA 4930534P07 gene	AK015971	1.10903
PDZ and LIM domain 5	NM_019808	-1.10541
Mus musculus cDNA sequence BC035291 (BC035291), mRNA [NM_177581]	NM_177581	1.06358
RIKEN cDNA C130010K08 gene	AK081360	1.06254
Mus musculus RIKEN cDNA 1300002C08 gene (1300002C08Rik), mRNA [NM_026182]	NM_026182	-1.47879
RIKEN cDNA 4921528H16 gene	AK014976	1.04941
Similar to immunoglobulin heavy chain	AK013457	-1.16005
Mus musculus cDNA sequence BC023055 (BC023055), mRNA [NM_198108]	NM_198108	1.0819
Mus musculus protein phosphatase 4, regulatory subunit 1 (Ppp4r1), mRNA [NM_146081]	NM_146081	-1.11027
RIKEN cDNA 3930401K13 gene	AK037868	1.01176
5-hydroxytryptamine (serotonin) receptor 2C	NM_008312	-1.03876
Mus musculus epidermal growth factor-containing fibulin-like extracellular matrix protein 1 (Egfr), mRNA [NM_146015]	NM_146015	-1.55657
Mus musculus phosphomevalonate kinase (Pmvk), mRNA [NM_026784]	NM_026784	-1.03968
Mus musculus RIKEN cDNA 2610510D14 gene (2610510D14Rik), mRNA [NM_025594]	NM_025594	-1.28594
Discs, large homolog 7 (Drosophila)	AK048470	1.11122
RIKEN cDNA A730024A03 gene	AK122574	1.00677
Mus musculus RIKEN cDNA 2410170E21 gene (2410170E21Rik), mRNA [NM_029420]	NM_029420	1.05715
Mus musculus RIKEN cDNA 1810016I24 gene (1810016I24Rik), mRNA [NM_029880]	NM_029880	-1.20955
Mus musculus RIKEN cDNA 4930511N19 gene (4930511N19Rik), mRNA [NM_183269]	NM_183269	-1.0479
Mus musculus NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5 (Ndufb5), mRNA [NM_025316]	NM_025316	-1.28945
Mus musculus RIKEN cDNA 1110007M04 gene (1110007M04Rik), mRNA [NM_026742]	NM_026742	-1.06358
Serologically defined colon cancer antigen 33	BC058264	1.29667
Mus musculus spectrin beta 2 (Sspb2), transcript variant 2, mRNA [NM_009260]	NM_009260	1.10132
Mus musculus protein kinase inhibitor, gamma (Pkg), mRNA [NM_011106]	NM_011106	-1.19207

Mus musculus 8 days embryo whole body cDNA, RIKEN full-length enriched library	AK017529	-1.02221
Mus musculus polydomain protein (Polydom), mRNA [NM_022814]	NM_022814	1.01522
Mus musculus vomeronasal 1 receptor, H8 (V1rh8), mRNA [NM_134217]	NM_134217	1.03215
Mus musculus RIKEN cDNA 4933411K20 gene (4933411K20Rik), mRNA [NM_025747]	NM_025747	1.04335
Mus musculus expressed sequence AW050020 (AW050020), mRNA [NM_172943]	NM_172943	-1.27738
Mus musculus RIKEN cDNA 4930562N12 gene (4930562N12Rik), mRNA [NM_029460]	NM_029460	1.06979
Mus musculus DNA segment, Chr 7, Brigham & Women's Genetics 0611 expressed	NM_027898	-1.04726
Mus musculus caspase 8 (Casp8), mRNA [NM_009812]	NM_009812	1.05611
Mus musculus hyaluronan synthase1 (Has1), mRNA [NM_008215]	NM_008215	-1.03255
Mus musculus expressed sequence AW539457 (AW539457), mRNA [NM_178890]	NM_178890	-1.04463
Mus musculus RIKEN cDNA 2700060E02 gene (2700060E02Rik), mRNA [NM_026528]	NM_026528	-1.56534
Mus musculus peripheral myelin protein (Pmp22), mRNA [NM_008885]	NM_008885	-1.20361
Mus musculus signaling molecule ATTP (Attp), mRNA [NM_016855]	NM_016855	1.05399
ADP-ribosylation factor-like 6 interacting protein 2	AK008381	1.12007
Mus musculus olfactory receptor 1220 (Olfr1220), mRNA [NM_146900]	NM_146900	1.01611
Mus musculus RIKEN cDNA 1810013B01 gene (1810013B01Rik), mRNA [NM_029631]	NM_029631	1.00228
Sperm associated antigen 9	AK030165	-1.01619
Mus musculus RIKEN cDNA 4933425L06 gene (4933425L06Rik), mRNA [NM_025751]	NM_025751	1.09793
Mus musculus RIKEN cDNA 1110057K04 gene (1110057K04Rik), mRNA [NM_172401]	NM_172401	-1.04834
Mus musculus low density lipoprotein receptor-related protein 11 (Lrp11), mRNA [NM_172784]	NM_172784	-1.0844
Mus musculus F-box and leucine-rich repeat protein 14 (Fbx14), mRNA [NM_133940]	NM_133940	-1.11311
RIKEN cDNA 2700099C18 gene	AK012623	-1.05431
Mus musculus RIKEN cDNA 2410195B05 gene (2410195B05Rik), mRNA [NM_030241]	NM_030241	1.12898
Mus musculus amyloid beta (A4) precursor protein-binding, family B, member 3	NM_146085	1.13681
Mus musculus paralemmin 2 (Palm2), mRNA [NM_172868]	NM_172868	1
RIKEN cDNA 0610039J04 gene	AK075597	-1.36083
Mus musculus Bruton agammaglobulinemia tyrosine kinase (Btk), mRNA [NM_013482]	NM_013482	-1.00856
Mus musculus RIKEN cDNA 5730521E12 gene (5730521E12Rik), mRNA [NM_025684]	NM_025684	-1.1912
Mus musculus peroxisomal biogenesis factor 14 (Pex14), mRNA [NM_019781]	NM_019781	-1.36962
Mus musculus mucolipin 2 (Mcoln2), mRNA [NM_026656]	NM_026656	-1.17019
Mus musculus colony stimulating factor 3 receptor (granulocyte) (Csf3r), mRNA [NM_007782]	NM_007782	1.10635
RIKEN cDNA 4930573O21 gene	AK016293	1.11591
Protein tyrosine phosphatase, non-receptor type 9	BQ936146	1.00616
Mus musculus ATP-binding cassette, sub-family A (ABC1), member 4 (Abca4),	NM_007378	1.12558
Kinesin family member 26A	AK129315	1.0475
Mus musculus RIKEN cDNA 2810413I22 gene (2810413I22Rik), mRNA [NM_025483]	NM_025483	-1.26251
Mus musculus expressed sequence AI849156 (AI849156), mRNA [NM_183142]	NM_183142	1.05847
RIKEN cDNA 1110007C24 gene	NM_025382	1.11462
Mus musculus osteoclast stimulating factor 1 (Ostf1), mRNA [NM_017375]	NM_017375	-1.51848
Mus musculus RIKEN cDNA 1810019P04 gene (1810019P04Rik), mRNA [NM_026111]	NM_026111	-1.11475
Mus musculus RIKEN cDNA 0610006O14 gene (0610006O14Rik), mRNA [NM_133764]	NM_133764	-1.03837
Mus musculus GDP-mannose pyrophosphorylase A (Gmppa), mRNA [NM_133708]	NM_133708	1.09799
Mus musculus serum deprivation response (Sdpr), mRNA [NM_138741]	NM_138741	-1.36382
Mus musculus protocadherin alpha 4 (Pcdha4), mRNA [NM_007766]	NM_007766	1.13323
Mus musculus RIKEN cDNA C030002O17 gene (C030002O17Rik), mRNA [NM_172432]	NM_172432	-1.10643
Mus musculus diacylglycerol kinase, beta (Dgkb), mRNA [NM_178681]	NM_178681	1
Mus musculus syncollin (Sycn), mRNA [NM_026716]	NM_026716	1.03847
Mus musculus interferon induced transmembrane protein 3 (Ifitm3), mRNA [NM_025378]	NM_025378	-1.04435
C-type lectin domain family 2, member e	NM_153506	-1.08027
Mus musculus persephin (Pspn), mRNA [NM_008954]	NM_008954	1.07376
Natriuretic peptide precursor type A	CA787232	1.04799
Mus musculus 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 (Pfkfb3),	NM_133232	-1.22714

Mus musculus squamous cell carcinoma antigen recognized by T-cells 3 (Sart3)	NM_016926	1.05048
Mus musculus protein tyrosine phosphatase, non-receptor type 11 (Ptpn11), mRNA	NM_011202	-1.3034
Mus musculus procollagen, type III, alpha 1 (Col3a1), mRNA [NM_009930]	NM_009930	-1.0995
RIKEN cDNA 4931413A09 gene	AK016452	-1.13479
Mus musculus olfactory receptor 923 (Olf923), mRNA [NM_146816]	NM_146816	1.0212
Mus musculus vomeronasal 1 receptor, G10 (V1rg10), mRNA [NM_134232]	NM_134232	1.06287
Mus musculus granzyme G (Gzmg), mRNA [NM_010375]	NM_010375	1.23004
Expressed sequence AI413194	AK033727	1.05114
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 24 (Ddx24), mRNA [NM_020494]	NM_020494	1.14172
Mus musculus Lutheran blood group (Auburger b antigen included) (Lu), mRNA	NM_020486	1.21255
Mus musculus RIKEN cDNA 5730466P16 gene (5730466P16Rik), mRNA [NM_173453]	NM_173453	-1.25335
Mus musculus secreted frizzled-related sequence protein 5 (Sfrp5), mRNA [NM_018780]	NM_018780	1.02671
Mus musculus HLA-B-associated transcript 1A (Bat1a), mRNA [NM_019693]	NM_019693	1.08737
Mus musculus ATPase, H+ transporting, V1 subunit G isoform 2 (Atp6v1g2), mRNA	NM_023179	1.03388
Dynein, axonemal, heavy chain 1	Z83815	1
Mus musculus BALB/c hypothetical protein mRNA, complete cds.	AY352586	-1.04047
Mus musculus RIKEN cDNA D430015B01 gene (D430015B01Rik), mRNA [NM_153574]	NM_153574	-1.48808
Mus musculus RIKEN cDNA 8430417G17 gene (8430417G17Rik), mRNA [NM_029415]	NM_029415	1.0049
RIKEN cDNA 2410012M07 gene	AK010476	1.06973
Mus musculus piwi like homolog 2 (Drosophila) (Piwil2), mRNA [NM_021308]	NM_021308	1.1642
RIKEN cDNA A230106M20 gene	AK039193	1.11176
Mus musculus nuclear factor of kappa light polypeptide gene enhancer in B-cell	NM_008690	-1.11456
Mus musculus RIKEN cDNA 2310036D22 gene (2310036D22Rik), mRNA [NM_027992]	NM_027992	-1.56035
Mus musculus stromal antigen 3 (Stag3), mRNA [NM_016964]	NM_016964	1.01084
RIKEN cDNA 2810437L13 gene	AK013289	1.00504
Mus musculus expressed sequence BB128963 (BB128963), mRNA [NM_172742]	NM_172742	-1.1665
Mus musculus transmembrane protease, serine 5 (spinesin) (Tmprss5), mRNA	NM_030709	-1.02097
hypothetical gene supported by AK085276	NM_198675	-1.10833
Mus musculus RIKEN cDNA 4930488E11 gene (4930488E11Rik), mRNA [NM_207267]	NM_207267	1.01064
Mus musculus RIKEN cDNA 5730454B08 gene (5730454B08Rik), mRNA [NM_144530]	NM_144530	1.15354
Mus musculus adult female placenta cDNA, RIKEN full-length enriched library, c	AK005483	-1.01912
Mus musculus f-box only protein 9 (Fbxo9), mRNA [NM_023605]	NM_023605	-1.36206
Prolactin regulatory element binding	AK029838	-1.01763
Mus musculus keratin complex 2, basic, gene 4 (Krt2-4), mRNA [NM_008475]	NM_008475	1.3313
Mus musculus rhophilin, Rho GTPase binding protein 2 (Rhpn2), mRNA [NM_027897]	NM_027897	-1.28462
Mus musculus cDNA sequence BC026370 (BC026370), mRNA [NM_198167]	NM_198167	1.23574
Triggering receptor expressed on myeloid cells-like 1	AY078502	-1.12013
Mus musculus tubulin, gamma 1 (Tubg1), mRNA [NM_134024]	NM_134024	-1.06484
Mus musculus megalencephalic leukoencephalopathy with subcortical cysts 1 h	NM_133241	-1.27591
Mus musculus mitochondrial ribosomal protein L20 (Mrpl20), mRNA [NM_025570]	NM_025570	-1.16512
Mus musculus WW domain containing E3 ubiquitin protein ligase 2 (Wwp2), mRNA	NM_025830	-1.11864
Mus musculus PWP2 (periodic tryptophan protein) homolog, yeast (Pwp2h), mRNA	NM_029546	1.03195
Mus musculus Williams-Beuren syndrome chromosome region 5 homolog (hum)	NM_022964	1.13075
Kelch repeat and BTB (POZ) domain containing 5	AK009491	-1.04777
DNA segment, Chr 12, ERATO Doi 551, expressed	AK014813	-1.52159
Mus musculus vacuolar protein sorting 16 (yeast) (Vps16), mRNA [NM_030559]	NM_030559	-1.03114
Mus musculus transforming growth factor beta regulated gene 4 (Tbrg4), mRNA	NM_134011	1.09584
Mus musculus syncoilin (Sync), mRNA [NM_023485]	NM_023485	1.16911
Expressed sequence BB128963	AK088715	-1.09219
Endothelial differentiation, sphingolipid G-protein-coupled receptor, 5	L20334	-1.02643
Mus musculus plakophilin 4 (Pkp4), mRNA [XM_130277]	XM_130277	1.02508
RIKEN cDNA 4930478K11 gene	AK019647	1.15465

Mus musculus thioether S-methyltransferase (Temt), mRNA [NM_009349]	NM_009349	1.23932
Cullin 5	AK080305	-1.09554
Mus musculus ribokinase (Rbks), mRNA [NM_153196]	NM_153196	-1.04164
Mus musculus metal response element binding transcription factor 2 (Mtf2), mR	NM_013827	1.05183
Mannosidase, alpha, class 1B, member 1	AK088523	-1.20176
RIKEN cDNA 1700001L05 gene	AK005608	1.06983
Mus musculus kinesin family member 3B (Kif3b), mRNA [NM_008444]	NM_008444	1.11144
Mus musculus cyclin L2 (Ccnl2), transcript variant 2, mRNA [NM_018856]	NM_018856	-1.00732
Mus musculus mitotic arrest deficient 1-like 1 (Mad11), mRNA [NM_010752]	NM_010752	1.02326
Mus musculus solute carrier family 12, member 4 (Slc12a4), mRNA [NM_00919]	NM_009195	1.16087
RIKEN cDNA 9430025M21 gene	AK045158	-1.00814
Mus musculus RIKEN cDNA 0610038K03 gene (0610038K03Rik), mRNA [NM_	NM_026701	-1.00246
Lectin, mannose-binding, 1	AK044539	-1.09065
DEAD (Asp-Glu-Ala-Asp) box polypeptide 46	BC026492	-1.27778
Mus musculus RIKEN cDNA 1110033C18 gene (1110033C18Rik), mRNA [NM_	NM_133964	-1.09078
Protein tyrosine phosphatase, receptor type, G	AK017277	-1.2808
Mus musculus RIKEN cDNA 1700012B18 gene (1700012B18Rik), mRNA [NM_	NM_027950	-1.05629
Mus musculus Zinc finger protein 212 (Zfp212), mRNA [NM_145576]	NM_145576	-1.00706
Mus musculus protein C receptor, endothelial (Procr), mRNA [NM_011171]	NM_011171	-1.15043
Mus musculus kinesin family member 2C (Kif2c), mRNA [NM_134471]	NM_134471	1.02635
Mus musculus olfactory receptor 610 (Olfr610), mRNA [NM_147081]	NM_147081	1.08701
Mus musculus membrane-spanning 4-domains, subfamily A, member 3 (Ms4a3	NM_133246	1.04407
Mus musculus actinin alpha 4 (Actn4), mRNA [NM_021895]	NM_021895	-1.52658
Mus musculus peroxisome proliferative activated receptor, gamma, coactivator	NM_008904	1.13172
Mus musculus RIKEN cDNA 1110007H17 gene (1110007H17Rik), mRNA [NM_	NM_028627	1.10234
Mus musculus RIKEN cDNA A830073O21 gene (A830073O21Rik), mRNA [NM_	NM_177118	-1.0038
Mus musculus deoxycytidine kinase (Dck), mRNA [NM_007832]	NM_007832	-1.01566
Mus musculus cDNA sequence BC050789 (BC050789), mRNA [NM_172515]	NM_172515	-1.0036
Mus musculus cDNA sequence BC020535 (BC020535), mRNA [NM_145536]	NM_145536	1.17643
Mus musculus isocitrate dehydrogenase 3 (NAD+), gamma (ldh3g), mRNA [NM	NM_008323	-1.11887
Mus musculus adult retina cDNA, RIKEN full-length enriched library, clone:A93C	AK044722	-1.00076
Mus musculus nuclear factor of kappa light chain gene enhancer in B-cells inhib	NM_010907	-1.06577
Mus musculus RIKEN cDNA 2310042D19 gene (2310042D19Rik), mRNA [NM_	NM_172417	1.20852
Mus musculus RIKEN cDNA 2410005K17 gene (2410005K17Rik), mRNA [NM_	NM_024462	-1.02645
Mus musculus microphthalmia-associated transcription factor (Mitf), mRNA [NM	NM_008601	1.14713
Mus musculus Mouse mammary tumor virus clone 66C env precursor (env) and	AF043690	-1.01611
Mus musculus integrin alpha 4 (Itga4), mRNA [NM_010576]	NM_010576	1.00686
Mus musculus RIKEN cDNA 1110008F13 gene (1110008F13Rik), mRNA [NM_	NM_026124	-1.2487
Mus musculus DNA segment, Chr 1, Wayne State University 40, expressed (D1	NM_178601	-1.0127
Mus musculus hairy and enhancer of split 2 (Drosophila) (Hes2), mRNA [NM_0	NM_008236	-1.02055
Mus musculus cholinergic receptor, muscarinic 3, cardiac (Chrm3), mRNA [NM_	NM_033269	1.04912
Mus musculus kinesin family member 1B (Kif1b), transcript variant 1, mRNA [NM	NM_008441	1.23604
Mus musculus cytochrome P450, family 1, subfamily a, polypeptide 2 (Cyp1a2),	NM_009993	1.07232
Mus musculus kidney expressed gene 1 (Keg1), mRNA [NM_029550]	NM_029550	-1.03876
Mus musculus RIKEN cDNA 1110019O13 gene (1110019O13Rik), mRNA [NM_	NM_134093	-1.24245
Mus musculus CD59a antigen (Cd59a), mRNA [NM_007652]	NM_007652	-1.0436
Mus musculus signal recognition particle 9 (Srp9), mRNA [NM_012058]	NM_012058	-1.33672
Mus musculus jagged 1 (Jag1), mRNA [NM_013822]	NM_013822	1.01272
Mus musculus StAR-related lipid transfer (START) domain containing 5 (Stard5)	NM_023377	1.127
Mus musculus suppressor of cytokine signaling 3 (Socs3), mRNA [NM_007707]	NM_007707	-1.0553
B-cell scaffold protein with ankyrin repeats 1	AK041242	1.22628
Granule cell antiserum positive 14	AK129295	1.07808

Mus musculus toll-like receptor 7 (Tlr7), mRNA [NM_133211]	NM_133211	-1.14085
Mus musculus glutamate receptor, metabotropic 3 (Grm3), mRNA [NM_181850]	NM_181850	-1.04171
Mus musculus proteasome (prosome, macropain) 26S subunit, ATPase 3 (Psm1)	NM_008948	-1.07632
Mus musculus inter-alpha (globulin) inhibitor H5 (Itih5), mRNA [NM_172471]	NM_172471	1.02588
Mus musculus olfactory receptor 1337 (Olf1337), mRNA [NM_146309]	NM_146309	1.01506
Mus musculus matrilin 4 (Matn4), mRNA [NM_013592]	NM_013592	1.02415
Mus musculus mitochondrial ribosomal protein L36 (Mrpl36), mRNA [NM_053163]	NM_053163	-1.07719
Mus musculus spinocerebellar ataxia 10 homolog (human) (Sca10), mRNA [NM_016843]	NM_016843	-1.15453
Mus musculus RIKEN cDNA 1700014P03 gene (1700014P03Rik), mRNA [NM_153527]	NM_153527	-1.00846
Mus musculus platelet/endothelial cell adhesion molecule (Pecam), mRNA [NM_008816]	NM_008816	-1.08335
Mus musculus signal-induced proliferation associated gene 1 (Sipa1), mRNA [NM_011379]	NM_011379	1.33329
Mus musculus potassium inwardly-rectifying channel, subfamily J, member 5 (Kir2.5), mRNA [NM_010605]	NM_010605	-1.03449
Mus musculus RIKEN cDNA G431001109 gene (G431001109Rik), mRNA [NM_1133837]	NM_1133837	-1.6531
RIKEN cDNA 1110059H15 gene	AK050359	1.25083
Protein tyrosine phosphatase, receptor type Z, polypeptide 1	AK078108	-1.02396
Mus musculus SUMO/sentrin specific protease 2 (Senp2), mRNA [NM_029457]	NM_029457	-1.27165
Mus musculus caspase 1 (Casp1), mRNA [NM_009807]	NM_009807	-1.29561
Mus musculus crystallin, beta A1 (Cryba1), mRNA [NM_009965]	NM_009965	1.01397
Mus musculus RIKEN cDNA 2700082D03 gene (2700082D03Rik), mRNA [NM_026031]	NM_026031	-1.23851
Mus musculus interleukin 9 (Il9), mRNA [NM_008373]	NM_008373	1.10336
RAS guanyl releasing protein 4	AK089282	-1.05067
Mus musculus procollagen, type VI, alpha 1 (Col6a1), mRNA [NM_009933]	NM_009933	1.15831
Mus musculus RIKEN cDNA A730072L08 gene (A730072L08Rik), mRNA [NM_175543]	NM_175543	1.02968
Mus musculus chemokine (C-X-C motif) ligand 7 (Cxcl7), mRNA [NM_023785]	NM_023785	-1.04261
Mus musculus killer cell lectin-like receptor, subfamily D, member 1 (Klrd1), mRNA [NM_010654]	NM_010654	-1.12166
Mus musculus aminolevulinic acid synthase 1 (Alas1), mRNA [NM_020559]	NM_020559	1.04109
Mus musculus POU domain, class 2, transcription factor 3 (Pou2f3), mRNA [NM_011139]	NM_011139	1.04525
Mus musculus olfactory receptor 593 (Olf593), mRNA [NM_146380]	NM_146380	1.10109
Mus musculus paired box gene 7 (Pax7), mRNA [NM_011039]	NM_011039	1.03696
Mus musculus macrophage receptor with collagenous structure (Marco), mRNA [NM_010766]	NM_010766	-1.07524
Giant axonal neuropathy	AK039455	1.10581
Mus musculus interleukin 1 receptor accessory protein (Il1rap), mRNA [NM_008364]	NM_008364	1
Mus musculus RIKEN cDNA 2610528M18 gene (2610528M18Rik), mRNA [NM_031863]	NM_031863	-1.01389
Protein phosphatase 1, regulatory (inhibitor) subunit 9A	AK013208	-1.0615
Mus musculus RIKEN cDNA 2310020H19 gene (2310020H19Rik), mRNA [NM_025525]	NM_025525	-1.43657
Mus musculus Rap guanine nucleotide exchange factor (GEF) 3 (Rapgef3), mRNA [NM_144850]	NM_144850	-1.0937
RIKEN cDNA 2510002A14 gene	AK009138	1.31012
Mus musculus RIKEN cDNA 2310069N01 gene (2310069N01Rik), mRNA [NM_029667]	NM_029667	-1.0397
Mus musculus serine (or cysteine) proteinase inhibitor, clade B, member 6a (SerpinB6), mRNA [NM_009254]	NM_009254	-1.209
Mus musculus synaptotagmin 11 (Syt11), mRNA [NM_018804]	NM_018804	1.04573
RIKEN cDNA 4930420O11 gene	AK129114	1.09891
Mus musculus inositol polyphosphate-5-phosphatase D (Inpp5d), mRNA [NM_010566]	NM_010566	-1.15221
Mus musculus retinitis pigmentosa 1 homolog (human) (Rp1h), mRNA [NM_011283]	NM_011283	1.05888
Mus musculus adult male cecum cDNA, RIKEN full-length enriched library, clone AK033738	AK033738	-1.15466
Mus musculus rho/rac guanine nucleotide exchange factor (GEF) 18 (Arhgef18), mRNA [NM_133962]	NM_133962	1.03703
Mus musculus growth factor independent 1 (Gfi1), mRNA [NM_010278]	NM_010278	1.06657
RIKEN cDNA 2810409K11 gene	AK013056	-1.03773
RIKEN cDNA 2210022J03 gene	AK008770	1.54919
Mus musculus eukaryotic translation initiation factor 2C, 3 (Eif2c3), mRNA [NM_153402]	NM_153402	1.13557
Gene model 992, (NCBI)	Z83810	-1.00006
Mus musculus expressed sequence AU019489 (AU019489), mRNA [NM_027828]	NM_027828	1.04106
Mus musculus RIKEN cDNA 4632408A20 gene (4632408A20Rik), mRNA [XM_126946]	XM_126946	1.08856

Mus musculus RIKEN cDNA 4732452J19 gene (4732452J19Rik), mRNA [NM_1NM_172448		-1.10524
OLFACTORY RECEPTOR MOR105-4. [Source:RefSeq;Acc:NM_146719] [ENSMUST0000006		1.03342
Mus musculus plexin A3 (Plxna3), mRNA [NM_008883]	NM_008883	-1.11617
Mus musculus olfactory receptor 410 (Olfr410), mRNA [NM_146707]	NM_146707	1.11431
RIKEN cDNA 4933417O08 gene	BC049116	1.06353
Mus musculus Purkinje cell protein 2 (L7) (Pcp2), mRNA [NM_008790]	NM_008790	1.12636
Mus musculus hepatocyte nuclear factor 4, gamma (Hnf4g), mRNA [NM_01392	NM_013920	1.00745
Mus musculus X-ray repair complementing defective repair in Chinese hamster	NM_028875	1.10849
Mus musculus urocortin 3 (Ucn3), mRNA [NM_031250]	NM_031250	1.18456
Mus musculus RIKEN cDNA 2900006B13 gene (2900006B13Rik), mRNA [NM_	NM_028398	1.09851
Mus musculus acylphosphatase 1, erythrocyte (common) type (Acyp1), mRNA [	NM_025421	-1.22493
Mus musculus NIMA (never in mitosis gene a)-related expressed kinase 6 (Nekt	NM_021606	1.02144
Mus musculus apolipoprotein A-II (Apoa2), mRNA [NM_013474]	NM_013474	-1.04124
Mus musculus sortilin-related VPS10 domain containing receptor 3 (Sorcs3), mF	NM_025696	1.06635
Unknown		1.01216
Polycystic kidney and hepatic disease 1	AK052698	-1.04175
RIKEN cDNA 7530408C15 gene	AK033046	-1.00735
Mus musculus zinc finger protein 312 (Zfp312), mRNA [NM_080433]	NM_080433	1.07998
Mus musculus RIKEN cDNA A430103C15 gene (A430103C15Rik), mRNA [NM_	NM_027836	1.00782
Mus musculus ribosomal protein S27a (Rps27a), mRNA [NM_024277]	NM_024277	-1.03487
Adult male testis cDNA, RIKEN full-length enriched library, clone:1700129L04 p	AK007316	-1.01234
Mus musculus RIKEN cDNA 4930578F06 gene (4930578F06Rik), mRNA [NM_	NM_029545	1.1571
Mus musculus aldo-keto reductase family 1, member B8 (Akr1b8), mRNA [NM_	NM_008012	-1.17607
Mus musculus solute carrier family 12 (potassium/chloride transporters), memb	NM_134251	-1.0182
Mus musculus eukaryotic translation initiation factor 3, subunit 7 (zeta) (Eif3s7),	NM_018749	1.113
Mus musculus seryl-aminoacyl-tRNA synthetase 2 (Sars2), mRNA [NM_023637	NM_023637	1.087
Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 3A (Ppp1r3	NM_080464	1.08444
Mus musculus 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2 (Pfkfb2),	NM_008825	-1.11221
RIKEN cDNA 4930430F08 gene	AK036647	-1.10217
Expressed sequence AU024783	AK003211	1.06875
Mus musculus lymphocyte antigen 96 (Ly96), mRNA [NM_016923]	NM_016923	-1.28568
Mus musculus pipecolic acid oxidase (Pipox), mRNA [NM_008952]	NM_008952	-1.03522
Mus musculus Ras-like without CAAX 2 (Rit2), mRNA [NM_009065]	NM_009065	1.00167
Mus musculus DEP domain containing 6 (Depdc6), mRNA [NM_145470]	NM_145470	1.04203
Mus musculus RIKEN cDNA F730038I15 gene (F730038I15Rik), mRNA [NM_1	NM_177320	1.00058
RIKEN cDNA B230104P22 gene	BC040467	1.06689
A kinase (PRKA) anchor protein 4	U10341	1.13678
Mus musculus T-cell leukemia, homeobox 3 (Tlx3), mRNA [NM_019916]	NM_019916	1.10854
Mus musculus nerve growth factor receptor (TNFRSF16) associated protein 1 (I	NM_009750	1.09966
Mus musculus matrix metalloproteinase 10 (Mmp10), mRNA [NM_019471]	NM_019471	1.17407
Mus musculus DNA segment, Chr 5, ERATO Doi 110, expressed (D5Erttd110e),	NM_133910	-1.21733
Mus musculus adult male olfactory brain cDNA, RIKEN full-length enriched libra	AK078248	1.06295
Mus musculus olfactory receptor 868 (Olfr868), mRNA [NM_146559]	NM_146559	1.0413
RIKEN cDNA 5033403D15 gene	AF172447	-1.18333
Mus musculus RIKEN cDNA 2310001A20 gene (2310001A20Rik), mRNA [NM_	NM_027977	-1.03226
Hypothetical protein LOC207685	AK008551	-1.09132
Mus musculus cyclic nucleotide gated channel beta 3 (Cngb3), mRNA [NM_013	NM_013927	1.06905
Mus musculus aquaporin 8 (Aqp8), mRNA [NM_007474]	NM_007474	1.08511
Mus musculus vesicle-associated membrane protein 3 (Vamp3), mRNA [NM_0C	NM_009498	-1.32243
RIKEN cDNA 4933406J08 gene	AK016695	1.00699
SUMO/sentrin specific protease 6	AK053904	1.05275
Mus musculus met proto-oncogene (Met), mRNA [NM_008591]	NM_008591	1.15503

Mus musculus RIKEN cDNA E430002G05 gene (E430002G05Rik), mRNA [NM_173749]		-1.14648
RIKEN cDNA 4930519N16 gene	BC016199	1.01533
Mus musculus melanocortin 5 receptor (Mc5r), mRNA [NM_013596]	NM_013596	1.11322
Mus musculus RAN binding protein 17 (Ranbp17), mRNA [NM_023146]	NM_023146	1.20559
Mus musculus RIKEN cDNA 9830169G11 gene (9830169G11Rik), mRNA [NM_178736]		-1.47188
BRF1 homolog, subunit of RNA polymerase III transcription initiation factor IIIB (AK033757)		1.06537
orphan short chain dehydrogenase/reductase	NM_027301	-1.05263
Mus musculus cDNA sequence BC036333 (BC036333), mRNA [NM_153592]	NM_153592	1.00444
Mus musculus cyclin C (Ccnc), mRNA [NM_016746]	NM_016746	-1.05476
Mus musculus acyl-Coenzyme A binding domain containing 5 (Acbd5), mRNA [NM_028793]		-1.54519
SMC6 structural maintenance of chromosomes 6-like 1 (yeast)	BC048790	-1.60118
CDNA sequence BC018510	BC018510	1.02173
Mus musculus villin 2 (Vil2), mRNA [NM_009510]	NM_009510	-1.01281
Mus musculus olfactory receptor 1301 (Olfr1301), mRNA [NM_146887]	NM_146887	1.09046
Killer cell lectin-like receptor subfamily B member 1C	NM_008527	-1.01277
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10	BC031664	-1.14862
Mus musculus RIKEN cDNA 9430015G10 gene (9430015G10Rik), mRNA [NM_145557]		1.05851
Unknown		1.15279
Mus musculus FK506 binding protein 3 (Fkbp3), mRNA [NM_013902]	NM_013902	-1.37806
Mus musculus gene trap insertion site 4-1 (Gt4-1), mRNA [NM_181860]	NM_181860	1.05528
Mus musculus RIKEN cDNA 2400008B06 gene (2400008B06Rik), mRNA [NM_028030]		-1.01007
Mus musculus zinc finger protein 42 (Zfp42), mRNA [NM_009556]	NM_009556	-1.02406
Mus musculus peptidylprolyl isomerase B (Ppib), mRNA [NM_011149]	NM_011149	-1.08728
Very low density lipoprotein receptor	AK036010	-1.17903
Mus musculus NADH dehydrogenase (ubiquinone) flavoprotein 1 (Ndufv1), mRNA [NM_133666]		1.11223
Solute carrier family 18 (vesicular monoamine), member 3	NM_021712	1.08578
Unknown		1.19439
RIKEN cDNA 3010001F23 gene	BC016624	1.26518
DNA segment, Chr 18, ERATO Doi 653, expressed	AK029200	1.01485
Mus musculus testis specific X-linked gene (Tsx), mRNA [NM_009440]	NM_009440	-1.21818
Mus musculus aquaporin 2 (Aqp2), mRNA [NM_009699]	NM_009699	1.06262
Bone morphogenetic protein 5	AK033362	-1.07843
Mus musculus homeo box, msh-like 3 (Msx3), mRNA [NM_010836]	NM_010836	1.00205
OLFACTORY RECEPTOR MOR231-18. [Source:RefSeq;Acc:NM_146373] [ENSMUST000000]		1.09036
RIKEN cDNA 2610041B18 gene	AB010329	-1.18561
Bobby sox homolog (Drosophila)	AK017436	-1.21313
Mus musculus peroxisomal biogenesis factor 13 (Pex13), mRNA [NM_023651]	NM_023651	-1.11267
Mus musculus RIKEN cDNA 5430407P10 gene (5430407P10Rik), mRNA [NM_144883]		1.01681
Mus musculus frequently rearranged in advanced T-cell lymphomas (Frat1), mRNA [NM_008043]		1.03765
RIKEN cDNA E130014H08 gene	AK053404	-1.08142
Mus musculus calmin (Clmn), mRNA [NM_053155]	NM_053155	1.08885
Mus musculus olfactory receptor 1262 (Olfr1262), mRNA [NM_146974]	NM_146974	-1.05593
Mus musculus olfactory receptor 921 (Olfr921), mRNA [NM_146782]	NM_146782	1.14032
Thyroid hormone receptor associated protein 1	AK083472	-1.11548
Mus musculus osteoglycin (Ogn), mRNA [NM_008760]	NM_008760	-1.43468
Mus musculus rabphilin 3A (Rph3a), mRNA [NM_011286]	NM_011286	1.0607
Mus musculus RIKEN cDNA 1500031H04 gene (1500031H04Rik), mRNA [NM_025893]		1.00378
Mus musculus RIKEN cDNA 3110005O21 gene (3110005O21Rik), mRNA [NM_029842]		1.0933
RIKEN cDNA C430046P22 gene	AK122523	1.02163
Mus musculus cytochrome P450, family 4, subfamily f, polypeptide 18 (Cyp4f18)	NM_024444	1.18706
Expressed sequence AI929863	AK083314	-1.12279
Mus musculus sema domain, transmembrane domain (TM), and cytoplasmic domain	NM_172537	-1.02283

Mus musculus cleavage and polyadenylation specific factor 4 (Cpsf4), mRNA [NNM_178576		-1.14403
CDK2 (cyclin-dependent kinase 2)-associated protein 1	AK029860	-1.00998
Mus musculus RIKEN cDNA 1110032A13 gene (1110032A13Rik), mRNA [NM_NM_199197		1.19556
Mus musculus CEA-related cell adhesion molecule 11 (Ceacam11), mRNA [NM NM_023289		1.23161
Mus musculus UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase	NM_145222	1.1105
Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransf	NM_134189	-1.21858
Mus musculus olfactory receptor 392 (Olf392), mRNA [NM_147006]	NM_147006	1
Mus musculus RIKEN cDNA 1500016L11 gene (1500016L11Rik), mRNA [NM_(NM_026885		-1.26128
Neural precursor cell expressed, developmentally down-regulated gene 4	U96635	1.21001
Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 15 (Dhx15), mRNA [NM NM_007839		-1.54455
Mus musculus ankyrin repeat and SOCS box-containing protein 9 (Asb9), mRNA [NM NM_027027		-1.01124
Mus musculus RIKEN cDNA 4921537D05 gene (4921537D05Rik), mRNA [NM_NM_029852		-1.16806
Mus musculus RIKEN cDNA 4933406M09 gene (4933406M09Rik), mRNA [NM_NM_173771		-1.00413
Mus musculus CD37 antigen (Cd37), mRNA [NM_007645]	NM_007645	1.04015
Mus musculus hydroxymethylbilane synthase (Hmbs), mRNA [NM_013551]	NM_013551	1.06508
Mus musculus otoferlin (Otof), mRNA [NM_031875]	NM_031875	1.09823
Unknown		-1.1648
Mus musculus eukaryotic translation initiation factor 4A1 (Eif4a1), mRNA [NM_1 NM_144958		1.24248
Mus musculus RIKEN cDNA 2610528K11 gene (2610528K11Rik), mRNA [NM_NM_175184		-1.0016
Mus musculus similar to hypothetical protein FLJ20047 (LOC229459), mRNA [X XM_143371		1.12686
Mus musculus olfactory receptor 705 (Olf705), mRNA [NM_147032]	NM_147032	1.07756
Mus musculus hnRNP-associated with lethal yellow (Raly), mRNA [NM_023130 NM_023130		1.01146
Mus musculus RIKEN cDNA 4930565F05 gene (4930565F05Rik), mRNA [NM_ NM_029947		1.02395
Mus musculus olfactory receptor 689 (Olf689), mRNA [NM_146750]	NM_146750	1.02507
CWF19-like 1, cell cycle control (S. pombe)	AK088543	-1.04678
Mus musculus signal transducer and activator of transcription interacting protein	NM_021448	-1.0025
Mus musculus craniofacial development protein 1 (Cfdp), mRNA [NM_011801]	NM_011801	-1.39984
Mus musculus leucine rich repeat containing 4 (Lrrc4), mRNA [NM_138682]	NM_138682	-1.06922
UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransf	AK078292	-1.14815
Mus musculus phosphoribosylaminoimidazole carboxylase, phosphoribosylamin	NM_025939	-1.27363
Mus musculus expressed sequence AW549877 (AW549877), mRNA [NM_1459 NM_145930		-1.04611
Mus musculus homeo box, msh-like 2 (Msx2), mRNA [NM_013601]	NM_013601	-1.02415
Mus musculus HLA-B associated transcript 4 (Bat4), mRNA [NM_032460]	NM_032460	-1.04504
T-cell lymphoma invasion and metastasis 1	AK015851	1.12721
Mus musculus zinc finger protein, subfamily 1A, 2 (Helios) (Zfpn1a2), mRNA [NI NM_011770		1.02005
Mus musculus choline kinase alpha (Chka), mRNA [NM_013490]	NM_013490	1.05428
Mus musculus twisted gastrulation homolog 1 (Drosophila) (Twsg1), mRNA [NM NM_023053		-1.15897
RIKEN cDNA 2410007B07 gene	AK010436	1.13896
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:	AK017078	1.02881
RIKEN cDNA 1700061G19 gene	AK028078	1.03994
Mus musculus DNA segment, Chr 11, Wayne State University 99, expressed (D NM_138598		1.04058
Mus musculus solute carrier family 30 (zinc transporter), member 9 (Slc30a9), m	NM_178651	-1.79307
Mus musculus Max dimerization protein (Mad), mRNA [NM_010751]	NM_010751	-1.01871
Mus musculus phosphatidylinositol 3-kinase, C2 domain containing, gamma pol	NM_207683	1.10366
Mus musculus RIKEN cDNA B230106I24 gene (B230106I24Rik), mRNA [NM_1 NM_178772		-1.30932
Mus musculus RIKEN cDNA C430003P19 gene (C430003P19Rik), mRNA [NM_NM_198017		-1.08678
Mus musculus parvin, beta (Parvb), mRNA [NM_133167]	NM_133167	-1.56397
Mus musculus RIKEN cDNA 4930511M11 gene (4930511M11Rik), mRNA [NM_NM_029141		-1.24108
Mus musculus expressed sequence AI449175 (AI449175), mRNA [NM_172754 NM_172754		1.0814
RASD family, member 2	BC026377	1.37402
Mus musculus homocysteine-inducible, endoplasmic reticulum stress-inducible,	NM_022331	-1.37931
RAB, member of RAS oncogene family-like 5	BU609819	1.0158

muscle, intestine and stomach expression 1	NM_010800	1.05617
Mus musculus vesicle-associated membrane protein 2 (Vamp2), mRNA [NM_009497]	NM_009497	1.08611
RIKEN cDNA 2810406K13 gene	AK013012	-1.03684
Mus musculus proteasome (prosome, macropain) subunit, beta type 9 (large m	NM_013585	-1.07932
Mus musculus RIKEN cDNA C330003B14 gene (C330003B14Rik), mRNA [NM_175342]	NM_175342	-1.06801
RAS related protein 1b	M79314	-2.22143
Mus musculus protocadherin beta 14 (Pcdhb14), mRNA [NM_053139]	NM_053139	1.05698
Mus musculus expressed sequence AA408451 (AA408451), mRNA [XM_127105]	XM_127105	1.00271
Dynein, cytoplasmic, light intermediate chain 1	NM_146229	1.28248
RIKEN cDNA 2010007H06 gene	AK008147	-1.15018
RIKEN cDNA 1700113A16 gene	BC022753	1.03073
Mus musculus expressed in non-metastatic cells 3 (Nme3), mRNA [NM_019730]	NM_019730	-1.20913
Mus musculus poly (ADP-ribose) glycohydrolase (Parg), mRNA [NM_011960]	NM_011960	-1.37844
Mus musculus ribosomal protein S19 (Rps19), mRNA [NM_023133]	NM_023133	-1.11569
Mus musculus testis specific gene A14 (Tsga14), mRNA [NM_031998]	NM_031998	1.03777
RIKEN cDNA 9430002A10 gene	AK020399	-1.22425
Mus musculus vomeronasal 1 receptor, G11 (V1rg11), mRNA [NM_134233]	NM_134233	1
Mus musculus N-myc downstream regulated gene 1 (Ndr1), mRNA [NM_010884]	NM_010884	1.01516
PHD finger protein 3	AK086788	1.16258
Mus musculus topoisomerase (DNA) II beta (Top2b), mRNA [NM_009409]	NM_009409	-1.4733
Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system)	NM_080852	-1.00804
Mus musculus myosin head domain containing 1 (Myohd1), mRNA [NM_025414]	NM_025414	1.07536
Mus musculus expressed sequence AI894139 (AI894139), mRNA [NM_178898]	NM_178898	1.02077
Mus musculus angiogenin, ribonuclease A family, member 4 (Ang4), mRNA [NM_177544]	NM_177544	-1.24795
Mus musculus expressed sequence AW494914 (AW494914), mRNA [NM_198942]	NM_198942	-1.01433
RIKEN cDNA 8430438D04 gene	BC034657	-1.39383
Mus musculus cDNA sequence BC051142 (BC051142), mRNA [NM_00100117]	NM_00100117	-1.00225
Mus musculus basonuclein 2 (Bnc2), mRNA [NM_172870]	NM_172870	1.09648
Mus musculus coagulation factor XII (Hageman factor) (F12), mRNA [NM_021489]	NM_021489	-1.00172
Mus musculus cDNA sequence BC003965, mRNA (cDNA clone IMAGE:348836)	BC003965	-1.1312
Retinoic acid induced 16	AK090035	-1.07182
Mus musculus NTF2-related export protein 1 (Nxt1), mRNA [NM_019761]	NM_019761	-1.19568
Mus musculus restin (Reed-Steinberg cell-expressed intermediate filament-associated	NM_019765	1.00452
RIKEN cDNA 2810482I07 gene	AK013434	-1.25113
RIKEN cDNA 9830001H06 gene	AK036375	-1.04449
Aldolase 1, A isoform, pseudogene 1	AK016920	1.01725
Mus musculus gem (nuclear organelle) associated protein 5 (Gemin5), mRNA [NM_172558]	NM_172558	1.02382
Mus musculus RIKEN cDNA D630032B01 gene (D630032B01Rik), mRNA [NM_172532]	NM_172532	-1.12841
Mus musculus early growth response 2 (Egr2), mRNA [NM_010118]	NM_010118	-1.23837
Mus musculus ribosomal protein L13a (Rpl13a), mRNA [NM_009438]	NM_009438	-1.35026
Mus musculus neuromedin U receptor 2 (Nmur2), mRNA [NM_153079]	NM_153079	1
Mus musculus RIKEN cDNA 2900002H16 gene (2900002H16Rik), mRNA [NM_021430]	NM_021430	1.11124
Mus musculus olfactory receptor 60 (Olfr60), mRNA [NM_146955]	NM_146955	1.13365
Mus musculus anaphase promoting complex subunit 4 (Anapc4), mRNA [NM_024213]	NM_024213	-1.29492
Mus musculus bobby sox homolog (Drosophila) (Bbx), mRNA [NM_027444]	NM_027444	-1.02072
Mus musculus NADH dehydrogenase (ubiquinone) Fe-S protein 4 (Ndufs4), mRNA [NM_010887]	NM_010887	-1.45986
Mus musculus olfactory receptor 979 (Olfr979), mRNA [NM_147108]	NM_147108	-1.00371
Fibronectin type III domain containing 3B	AK045099	1.00165
Mus musculus DNA segment, Chr 12, ERATO Doi 748, expressed (D12Ert748)	NM_144833	-1.0339
Dystrophin, muscular dystrophy	AK031360	1.15298
Mus musculus single-stranded DNA binding protein 1 (Ssbp1), transcript variant	NM_212468	1.03372
Mus musculus RIKEN cDNA 1600025D17 gene (1600025D17Rik), mRNA [NM_028065]	NM_028065	1.07919

Mus musculus cyclin E1 (Ccne1), mRNA [NM_007633]	NM_007633	1.0436
Mus musculus minichromosome maintenance deficient 10 (<i>S. cerevisiae</i>) (Mcm NM_027290)	NM_027290	1.02271
Mus musculus folate hydrolase (Folh1), mRNA [NM_016770]	NM_016770	1.19574
Mus musculus olfactory receptor 1230 (Olfr1230), mRNA [NM_146789]	NM_146789	1.05377
Retinitis pigmentosa 1 homolog (human)-like 1	AJ491325	1.10388
Non-SMC element 1 homolog (<i>S. cerevisiae</i>)	NM_026330	-1.14373
Mus musculus connector enhancer of kinase suppressor of Ras 2 (Cnksr2), mR	NM_177751	1.0115
Mus musculus suppressor of Ty 6 homolog (<i>S. cerevisiae</i>) (Supt6h), mRNA [NM_009297]	NM_009297	-1.05875
Mus musculus Z-DNA binding protein 1 (Zbp1), mRNA [NM_021394]	NM_021394	-1.1744
Mus musculus histocompatibility 2, M region locus 9 (H2-M9), mRNA [NM_008205]	NM_008205	-1.42137
Mus musculus single-stranded DNA binding protein 2 (Ssbp2), mRNA [NM_024186]	NM_024186	-1.25483
Mus musculus DNA segment, Chr 11, ERATO Doi 730, expressed (D11Ert730)	NM_148673	-1.09767
Mus musculus RIKEN cDNA 1700013G24 gene (1700013G24Rik), mRNA [NM_027063]	NM_027063	1.14937
Mus musculus ubiquitin A-52 residue ribosomal protein fusion product 1 (Uba52)	NM_019883	-1.00891
Mus musculus cullin 4B (Cul4b), mRNA [NM_028288]	NM_028288	-1.46329
Mus musculus 0 day neonate skin cDNA, RIKEN full-length enriched library, clone	AK014574	1
Mus musculus phosphotriesterase related (Pter), mRNA [NM_008961]	NM_008961	-1.05452
RIKEN cDNA 2310047K21 gene	AK009882	-1.13267
Phosphohistidine phosphatase 1	AK005756	-1.02487
Mus musculus potassium large conductance calcium-activated channel, subfam	NM_028231	1.05921
Mus musculus calcium channel, voltage-dependent, gamma subunit 2 (Cacng2)	NM_007583	1.00452
Sparc/osteonectin, cwcv and kazal-like domains proteoglycan 1	AK013746	-1.13941
Mus musculus interferon induced transmembrane protein 7 (Ifitm7), mRNA [NM_028968]	NM_028968	-1.0242
EST AF006989	AK007130	-1.00273
Mus musculus roundabout homolog 1 (<i>Drosophila</i>) (Robo1), mRNA [NM_019413]	NM_019413	-1.06361
Mus musculus dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1a	NM_007890	-1.02103
Phosphatidylinositol transfer protein, cytoplasmic 1	AK034285	-1.1081
Mus musculus solute carrier family 34 (sodium phosphate), member 1 (Slc34a1)	NM_011392	-1.15062
Mus musculus eukaryotic translation initiation factor 3, subunit 6 interacting prot	NM_145139	-1.12044
RIKEN cDNA 9030425P06 gene	BC008266	-1.05813
XK-related protein 2	AK041635	-1.01288
Mus musculus RIKEN cDNA 9130005N14 gene (9130005N14Rik), mRNA [NM_026667]	NM_026667	-1.10216
Mus musculus RIKEN cDNA 1110007A13 gene (1110007A13Rik), mRNA [NM_145955]	NM_145955	-1.02656
Calreticulin 4	BC044740	1.12779
RIKEN cDNA 5430425J12 gene	AK017337	1.01659
Mus musculus replication factor C (activator 1) 4 (Rfc4), mRNA [NM_145480]	NM_145480	1.19983
Mus musculus FERM domain containing 3 (Frmd3), mRNA [NM_172869]	NM_172869	-1.00934
Serologically defined colon cancer antigen 10	AK089906	1.04802
Mus musculus adult male medulla oblongata cDNA, RIKEN full-length enriched	AK032028	1.11489
CDNA sequence BC027092	AK032890	1.06102
Spermatid perinuclear RNA binding protein	AK082675	1.10415
Mus musculus expressed sequence AI450540 (AI450540), mRNA [NM_145505]	NM_145505	-1.3689
RIKEN cDNA 5430411K18 gene	AK028969	1.15194
similar to Hypothetical protein KIAA1218	AK036472	1.00178
RIKEN cDNA D330037H05 gene	AK010113	-1.06126
Mus musculus matrix metalloproteinase 24 (Mmp24), mRNA [NM_010808]	NM_010808	1.17264
Mus musculus actin related protein 2/3 complex, subunit 1A (Arpc1a), mRNA [NM_019767]	NM_019767	-1.21052
Mus musculus Bcl2-associated athanogene 3 (Bag3), mRNA [NM_013863]	NM_013863	-1.16169
Mus musculus contactin 3 (Cntn3), mRNA [NM_008779]	NM_008779	-1.06994
Glucosidase, alpha; neutral C	AK076333	1.14077
Mus musculus mitochondrial ribosomal protein S31 (Mrps31), mRNA [NM_020560]	NM_020560	-1.45587
Mus musculus glutathione peroxidase 3 (Gpx3), mRNA [NM_008161]	NM_008161	1.29958

Mus musculus neuron specific gene family member 2 (Nsg2), mRNA [NM_0087	NM_008741	-1.0365
Mus musculus synaptobrevin like 1 (Syb1), mRNA [NM_011515]	NM_011515	-1.17966
Unknown		-1.09043
Mus musculus RIKEN cDNA 4930511H01 gene (4930511H01Rik), mRNA [NM_	NM_029453	-1.02505
Mus musculus period homolog 3 (Drosophila) (Per3), mRNA [NM_011067]	NM_011067	1.05889
Mus musculus cell division cycle 7 (S. cerevisiae) (Cdc7), mRNA [NM_009863]	NM_009863	1.02668
Mus musculus RIKEN cDNA 4932415D10 gene (4932415D10Rik), mRNA [NM_	NM_172789	1.15652
Mus musculus programmed cell death 8 (Pdcd8), mRNA [NM_012019]	NM_012019	-1.00853
Mus musculus N-myc downstream regulated gene 4 (NdrG4), mRNA [NM_14561	NM_145602	-1.03004
Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 4 (Arab	NM_012001	-1.56727
Nitric oxide synthase 2, inducible, macrophage	NM_010927	-1.0277
Solute carrier family 35, member B2	AK090329	1.06167
Mus musculus upregulated during skeletal muscle growth 4 (Usmg4), mRNA [NI	NM_031401	-1.28247
Mus musculus RIKEN cDNA 2610207F23 gene (2610207F23Rik), mRNA [NM_	NM_026008	-1.09154
Mus musculus thioredoxin reductase 3 (Txnrd3), mRNA [NM_153162]	NM_153162	-1.05033
Mus musculus RIKEN cDNA 2810055F11 gene (2810055F11Rik), mRNA [NM_	NM_026038	-1.36465
Mus musculus RIKEN cDNA 8030499H02 gene (8030499H02Rik), mRNA [NM_	NM_030732	1.00699
Mus musculus eukaryotic translation initiation factor 3, subunit 9 (eta) (Eif3s9), r	NM_133916	1.04979
Mus musculus GTPase activating RANGAP domain-like 1 (Garn1), mRNA [NM_	NM_019994	-1.08277
Mus musculus RIKEN cDNA 2600001J17 gene (2600001J17Rik), mRNA [NM_	NM_027411	1.0492
Mus musculus ribosomal protein L37 (Rpl37), mRNA [NM_026069]	NM_026069	1.11775
Mus musculus deoxythymidylate kinase (Dtymk), mRNA [NM_023136]	NM_023136	-1.1515
Mus musculus olfactory receptor 1219 (Olfr1219), mRNA [NM_146899]	NM_146899	1.00244
Talin 2	AK029828	-1.25515
Mus musculus RIKEN cDNA 4732495G21 gene (4732495G21Rik), mRNA [NM_	NM_175497	1
Mus musculus RIKEN cDNA B930096L08 gene (B930096L08Rik), mRNA [NM_	NM_172477	-1.08367
Mus musculus olfactory receptor 411 (Olfr411), mRNA [NM_146709]	NM_146709	1.06446
Mus musculus SEC23B (S. cerevisiae) (Sec23b), mRNA [NM_019787]	NM_019787	1.09928
Mus musculus microfibrillar-associated protein 2 (Mfap2), mRNA [NM_008546]	NM_008546	-1.05414
Unknown		1.01974
Mus musculus G protein-coupled bile acid receptor 1 (Gpbar1), mRNA [NM_174	NM_174985	1.01342
RIKEN cDNA 1700001P01 gene	AK005619	1.10586
Mus musculus ribosomal protein L11 (Rpl11), mRNA [NM_025919]	NM_025919	-1.16926
Mus musculus UBX domain containing 1 (Ubx1), mRNA [NM_024432]	NM_024432	1.10028
Mus musculus RIKEN cDNA 5830457H20 gene (5830457H20Rik), mRNA [NM_	NM_173756	-1.36931
Mus musculus LSM7 homolog, U6 small nuclear RNA associated (S. cerevisiae	NM_025349	-1.00786
Mus musculus dishevelled associated activator of morphogenesis 1 (Daam1), m	NM_172464	1.06474
similar to HYPOTHETICAL PROTEIN ORF-1137	AY053456	1.115
LSM1 homolog, U6 small nuclear RNA associated (S. cerevisiae)	AK006006	-1.331
Mus musculus START domain containing 10 (Stard10), mRNA [NM_019990]	NM_019990	-1.05003
Mus musculus ADP-ribosylation factor 3 (Arf3), mRNA [NM_007478]	NM_007478	1.03988
Mus musculus serum amyloid A 2 (Saa2), mRNA [NM_011314]	NM_011314	1.06505
Mus musculus transketolase (Tkt), mRNA [NM_009388]	NM_009388	-1.11757
AV080718 Mus musculus stomach C57BL/6J adult Mus musculus cDNA clone 2	AV080718	-1.22119
Mus musculus RIKEN cDNA C630028L02 gene (C630028L02Rik), mRNA [NM_	NM_176899	1.19061
Mus musculus schlafen 5 (Slfn5), mRNA [NM_183201]	NM_183201	1.15636
Amyloid beta (A4) precursor protein-binding, family B, member 1 interacting pro	AF020313	-1.08723
Mus musculus peroxisomal acyl-CoA thioesterase 1 (Pte1), mRNA [NM_13324	NM_133240	-1.13401
Zinc finger protein 91	AK018620	-1.14824
Mus musculus trypsin 3 (Try3), mRNA [NM_011645]	NM_011645	1.00078
RIKEN cDNA 3110041P15 gene	BC060096	1.08147
Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched li	AK047573	1.08505

Mus musculus hairy/enhancer-of-split related with YRPW motif 1 (Hey1), mRNA [NM_010423]	NM_010423	-1.31732
Mus musculus nescient helix loop helix 1 (Nhlh1), mRNA [NM_010916]	NM_010916	1.07499
Mus musculus thyroid peroxidase (Tpo), mRNA [NM_009417]	NM_009417	1.06349
RIKEN cDNA 2900045O20 gene	AK013651	1
Mus musculus mitochondrial ribosomal protein L11 (Mrpl11), mRNA [NM_025555]	NM_025555	-1.12652
Mus musculus spermatogenesis associated glutamate (E)-rich protein 3 (Sperar1), mRNA [NM_027650]	NM_027650	-1.14991
Dynamin binding protein	AK129261	1.0709
Similar to Sodium channel beta-2 subunit precursor	AK013326	-1.16923
Mus musculus stomatin (Epb7.2)-like 3 (Stoml3), mRNA [NM_153156]	NM_153156	1.0376
Mus musculus alpha thalassemia/mental retardation syndrome X-linked homolog 1 (Atm1), mRNA [NM_009530]	NM_009530	1.07238
Mus musculus transforming growth factor, beta induced (Tgfb1), mRNA [NM_009369]	NM_009369	-1.24493
Mus musculus olfactory receptor 700 (Olfr700), mRNA [NM_146600]	NM_146600	-1.0273
Mus musculus cDNA sequence BC037034 (BC037034), mRNA [NM_153161]	NM_153161	-1.19689
Mus musculus asialoglycoprotein receptor 2 (Asgr2), mRNA [NM_007493]	NM_007493	1.07546
Mus musculus RIKEN cDNA 2810038K19 gene (2810038K19Rik), mRNA [NM_023684]	NM_023684	1.05495
Mus musculus olfactory receptor 340 (Olfr340), mRNA [NM_146951]	NM_146951	1.00341
Mus musculus SRY-box containing gene 7 (Sox7), mRNA [NM_011446]	NM_011446	-1.65004
Cystatin 13	BC048681	1.03351
Mus musculus vomeronasal 1 receptor, C8 (V1rc8), mRNA [NM_053238]	NM_053238	1.0941
Mus musculus muscle, skeletal, receptor tyrosine kinase (Musk), mRNA [NM_010944]	NM_010944	-1.03316
Mus musculus guanidinoacetate methyltransferase (Gamt), mRNA [NM_010255]	NM_010255	1.02102
Mus musculus adult male heart cDNA, RIKEN full-length enriched library, clone: AK003099	AK003099	1.1214
Mus musculus ATP-binding cassette, sub-family F (GCN20), member 1 (Abcf1), mRNA [NM_013854]	NM_013854	1.1472
RIKEN cDNA 2210412D05 gene	BC025127	1.03518
AV166465 Mus musculus head C57BL/6J 13-day embryo Mus musculus cDNA AV166465	AV166465	-1.09944
Expressed sequence AI848765	BQ944428	2.39533
Mus musculus BTB (POZ) domain containing 9 (Btbd9), mRNA [NM_172618]	NM_172618	1.16978
POU domain, class 4, transcription factor 1	X51959	1.64784
RIKEN cDNA 5730466H23 gene	AK034138	-1.05718
Vacuolar protein sorting 13C (yeast)	AK049557	1.0777
Mus musculus Tal1 interrupting locus (Sil), mRNA [NM_009185]	NM_009185	1.05978
Mus musculus neuropilin (NRP) and tolloid (TLL)-like 1 (Neto1), mRNA [NM_144946]	NM_144946	1.07193
Mus musculus insulin-like 6 (Insl6), mRNA [NM_013754]	NM_013754	-1.20393
Mus musculus tweety homolog 2 (Drosophila) (Ttyh2), mRNA [NM_053273]	NM_053273	1.04511
Mus musculus patched homolog 1 (Ptch1), mRNA [NM_008957]	NM_008957	1.03662
Mus musculus RIKEN cDNA 2310042N02 gene (2310042N02Rik), mRNA [NM_024246]	NM_024246	1.06555
Two pore channel 1	AK077411	1.15434
Mus musculus ribosomal protein L36 (Rpl36), mRNA [NM_018730]	NM_018730	-1.07515
Mus musculus BMS1-like, ribosome assembly protein (yeast) (Bms1l), mRNA [NM_194339]	NM_194339	-1.06074
Mus musculus progressive ankylosis (Ank), mRNA [NM_020332]	NM_020332	-1.35332
Glycosyltransferase-like domain containing 1	AK038057	1.05198
RIKEN cDNA 4732474A20 gene	NM_177307	1.09152
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK030130	AK030130	-1.13104
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK019581	AK019581	1.02942
Mus musculus synaptotagmin 8 (Syt8), mRNA [NM_018802]	NM_018802	1.08742
Spermidine/spermine N1-acetyl transferase 2	BC061227	-1.03036
Mus musculus olfactory receptor 50 (Olfr50), mRNA [NM_146946]	NM_146946	1.10497
Mus musculus kinesin-like 7 (Kns17), mRNA [NM_010620]	NM_010620	1.04163
Mus musculus RIKEN cDNA 1700093E07 gene (1700093E07Rik), mRNA [NM_133685]	NM_133685	-1.02767
Mus musculus interleukin-1 receptor-associated kinase 1 (Irak1), mRNA [NM_008363]	NM_008363	1.24803
Mus musculus acid phosphatase 2, lysosomal (Acp2), mRNA [NM_007387]	NM_007387	1.02103
Mus musculus serine (or cysteine) proteinase inhibitor, clade B, member 9e (SerpinB9), mRNA [NM_011456]	NM_011456	-1.00734

Chromatin modifying protein 4B	AK018542	-1.02594
Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 1B (Ab CDNA sequence BC024868	NM_011075 BC024868	-1.06773 -1.12872
Heterogeneous nuclear ribonucleoprotein D-like	AB017020	-1.25318
Mus musculus integrin alpha X (Itgax), mRNA [NM_021334]	NM_021334	1.02281
Mus musculus interleukin 12b (Il12b), mRNA [NM_008352]	NM_008352	1.09856
Mus musculus RIKEN cDNA F730046H10 gene (F730046H10Rik), mRNA [NM_NM_00100278		1.12659
UI-M-AO0-acf-d-10-0-UI.s1 NIH_BMAP_MPG Mus musculus cDNA clone UI-M- AI838745		1.00569
Mus musculus SWI/SNF related, matrix associated, actin dependent regulator o	NM_025891	1.05049
Mus musculus hydroxyacyl glutathione hydrolase (Hagh), mRNA [NM_024284]	NM_024284	-1.29224
Mus musculus transglutaminase 5 (Tgm5), mRNA [NM_028799]	NM_028799	1.0702
Mus musculus adult male hippocampus cDNA, RIKEN full-length enriched librar	AK013846	1.04005
Mus musculus heat shock factor 2 (Hsf2), mRNA [NM_008297]	NM_008297	-1.1795
Mus musculus RIKEN cDNA 9130217G22 gene (9130217G22Rik), mRNA [NM_NM_183175		-1.03548
Mus musculus protein tyrosine phosphatase, receptor type, R (Ptprr), mRNA [NI	NM_011217	1.1874
Mus musculus cytochrome c oxidase, subunit VIIa 2 (Cox7a2), mRNA [NM_009	NM_009945	-1.14346
Mus musculus interleukin 1 beta (Il1b), mRNA [NM_008361]	NM_008361	-1.4219
RIKEN cDNA 4930480E11 gene	AK015598	1.0231
Mus musculus RIKEN cDNA 0610039N19 gene (0610039N19Rik), mRNA [NM_NM_026159		1.08805
Mus musculus RIKEN cDNA 1200013P24 gene (1200013P24Rik), mRNA [NM_NM_029090		1.08626
Mus musculus solute carrier organic anion transporter family, member 2a1 (Slcc	NM_033314	1.20902
RIKEN cDNA 1700020N15 gene	AK006180	1.00515
F-box and WD-40 domain protein 9	BC002276	-1.01129
Mus musculus RIKEN cDNA 5430405K24 gene (5430405K24Rik), mRNA [NM_NM_027790		-1.12812
Mus musculus chemokine (C-X-C motif) receptor 3 (Cxcr3), mRNA [NM_009910	NM_009910	1.01633
Mus musculus RIKEN cDNA 1110064P04 gene (1110064P04Rik), mRNA [NM_NM_172391		-1.05549
Mus musculus RNA (guanine-7-) methyltransferase (Rnmt), mRNA [NM_026440	NM_026440	1.03738
Mus musculus protective protein for beta-galactosidase (Ppgb), mRNA [NM_008	NM_008906	1.13363
T-COMPLEX EXPRESSED GENE 4. [Source:RefSeq;Acc:NM_020608] [ENSMUST00000024		1.01279
Mus musculus NFkB inhibitor interacting Ras-like protein 2 (Nkiras2), mRNA [N	NM_028024	1.08115
Mus musculus RIKEN cDNA 4833405L16 gene (4833405L16Rik), mRNA [NM_NM_177197		-1.03513
Mus musculus tubby candidate gene (Tub), mRNA [NM_021885]	NM_021885	1.08139
RIKEN cDNA 4932409I22 gene	NM_198614	-1.09071
Mus musculus zinc finger protein 316 (Zfp316), mRNA [NM_017467]	NM_017467	-1.06069
RIKEN cDNA 5730585A16 gene	AK019974	1.43086
Mus musculus DNA segment, Chr 16, Wayne State University 109, expressed (I	NM_138599	-1.31762
Mus musculus interleukin 8 receptor, beta (Il8rb), mRNA [NM_009909]	NM_009909	-1.13688
Mediator of RNA polymerase II transcription, subunit 12 homolog (yeast)-like	AK129412	1.2431
Mus musculus crystallin, gamma D (Crygd), mRNA [NM_007776]	NM_007776	1.08352
Mus musculus hypothetical protein, MNCb-4760 (AB041661), mRNA [NM_0214	NM_021403	1.08571
Mus musculus purine rich element binding protein A (Pura), mRNA [NM_00898	NM_008989	1.05506
Mus musculus synaptotagmin 12 (Syt12), mRNA [NM_134164]	NM_134164	1.007
Mus musculus olfactory receptor 395 (Olfr395), mRNA [NM_147005]	NM_147005	1.01883
Mus musculus cell division cycle 2 homolog A (S. pombe) (Cdc2a), mRNA [NM_NM_007659		1.09132
Procollagen, type XXIV, alpha 1	AK017266	1.03225
Mus musculus transcriptional adaptor 3 (NGG1 homolog, yeast)-like (Tada3l), r	NM_133932	1.05677
Mus musculus olfactory receptor 638 (Olfr638), mRNA [NM_147120]	NM_147120	1.05722
Mus musculus RIKEN cDNA 9930021J03 gene (9930021J03Rik), mRNA [NM_1	NM_172836	-1.34468
Mus musculus peroxisome proliferator activated receptor gamma (Pparg), mRN	NM_011146	1.00338
Mus musculus inositol polyphosphate-4-phosphatase, type I (Inpp4a), mRNA [N	NM_172971	-1.01988
CDNA sequence BC006705	BC054118	-1.13235
Mus musculus asparagine-linked glycosylation 3 homolog (yeast, alpha-1,3-mar	NM_145939	1.08561

Unknown		1.04831
Mus musculus N-acetylglucosamine kinase (Nagk), mRNA [NM_019542]	NM_019542	1.06027
Mus musculus protease, serine, 35 (Prss35), mRNA [NM_178738]	NM_178738	1.12235
Mus musculus RIKEN cDNA 4632433K11 gene (4632433K11Rik), mRNA [NM_029849]	NM_029849	-1.08962
SWA-70 protein	NM_009302	-1.01508
Mus musculus RIKEN cDNA 4930483I10 gene (4930483I10Rik), mRNA [NM_172850]	NM_172850	1.04926
RIKEN cDNA A630039F14 gene	AK080354	1.49294
RIKEN cDNA C430014M02 gene	AK049459	1.52542
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subunit 1	AK011935	-1.677
Mus musculus calpain 3 (Capn3), mRNA [NM_007601]	NM_007601	-1.29817
Mus musculus citron (Cit), mRNA [NM_007708]	NM_007708	1.09671
Mus musculus sulfide quinone reductase-like (yeast) (Sqr1), mRNA [NM_021507]	NM_021507	-1.1765
Mus musculus F-box and leucine-rich repeat protein 3a (Fbxl3a), mRNA [NM_015822]	NM_015822	-1.54337
Mus musculus proteasome (prosome, macropain) subunit, beta type 4 (Psmc4), mRNA [NM_008945]	NM_008945	-1.32375
Mus musculus mitochondrial ribosomal protein L40 (Mrpl40), mRNA [NM_010922]	NM_010922	-1.22064
Mus musculus coilin (Coil), mRNA [NM_016706]	NM_016706	1.023
Mus musculus RIKEN cDNA 2310016F22 gene (2310016F22Rik), mRNA [NM_173743]	NM_173743	1.08125
Mus musculus programmed cell death 4 (Pcd4), mRNA [NM_011050]	NM_011050	-1.06659
Collectin sub-family member 11	AK003121	1.01229
Mus musculus CDP-diacylglycerol--inositol 3-phosphatidyltransferase (phosphatidylinositol 3-kinase)	NM_026638	1.12539
Mus musculus sulfotransferase family 1B, member 1 (Sult1b1), mRNA [NM_019878]	NM_019878	1.12777
RIKEN cDNA 4930402E16 gene	AK086050	-1.08014
DP-3=protein regulating cell cycle transcription factor DRTF1/E2F [mice, pl-2, F579780]	F579780	1.1629
Mus musculus RIKEN cDNA B430218L07 gene (B430218L07Rik), mRNA [NM_198037]	NM_198037	1.08471
Mus musculus transcription factor-like 4 (Tcf4), mRNA [NM_011550]	NM_011550	1.07226
Mus musculus RIKEN cDNA 2700029E10 gene (2700029E10Rik), mRNA [NM_180588]	NM_180588	1.16864
MAM domain containing 1	AK046838	1.05257
Casein kappa	NM_007786	1.08894
Mus musculus calcium channel, voltage-dependent, N type, alpha 1B subunit (Cav2b1)	NM_007579	-1.01435
Mus musculus ubiquitin-conjugating enzyme E2I (Ube2i), mRNA [NM_011665]	NM_011665	-1.05573
NADH dehydrogenase (ubiquinone) flavoprotein 2	AK013511	-1.32009
Mus musculus olfactory receptor 24 (Olfr24), mRNA [NM_146606]	NM_146606	1.06855
Mus musculus ubiquitin specific protease 10 (Usp10), mRNA [NM_009462]	NM_009462	-1.05528
Mus musculus ephrin B1 (Efnb1), mRNA [NM_010110]	NM_010110	1.1856
Mus musculus 10 days neonate skin cDNA, RIKEN full-length enriched library, clone 1700029M23	AK029160	-1.11981
RIKEN cDNA 1700029M23 gene	AK006511	-1.04565
Similar to Testis-specific A-kinase-anchoring-protein	AK027988	1.04646
Mus musculus alveolar soft part sarcoma chromosome region, candidate 1 (human)	NM_026877	1.16462
Synapsin I	NM_013680	1.18559
Mus musculus olfactory receptor 67 (Olfr67), mRNA [NM_013619]	NM_013619	1.01759
DNA segment, Chr 14, ERATO Doi 171, expressed	AK032385	1.12683
Mus musculus RIKEN cDNA 2810413I22 gene (2810413I22Rik), mRNA [NM_025483]	NM_025483	-1.07781
Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 2 (Abcc2)	NM_013806	-1.02072
RIKEN cDNA C030014I23 gene	AK021081	1.16767
Mus musculus RIKEN cDNA 8430408G22 gene (8430408G22Rik), mRNA [NM_145980]	NM_145980	1.08082
RIKEN cDNA C130002K18 gene	AK047829	1.06622
Mus musculus RAD51 associated protein 1 (Rad51ap1), mRNA [NM_009013]	NM_009013	1.08523
Mus musculus runt related transcription factor 1 (Runx1), mRNA [NM_009821]	NM_009821	-1.01196
Mus musculus decay accelerating factor 1 (Daf1), mRNA [NM_010016]	NM_010016	-1.4393
RIKEN cDNA B130008E12 gene	AK044857	1
Mus musculus cleavage stimulation factor, 3' pre-RNA, subunit 1 (Cstf1), mRNA [NM_024199]	NM_024199	-1.18431
Mus musculus RIKEN cDNA 2310035M22 gene (2310035M22Rik), mRNA [NM_025863]	NM_025863	-1.47874

Mus musculus acidic nuclear phosphoprotein 32 family, member B (Anp32b), m	NM_130889	1.06311
Mus musculus a disintegrin-like and metalloprotease (reprolysin type) with thron	NM_175643	-1.23765
Mus musculus transcription factor E2a (Tcfe2a), mRNA [NM_011548]	NM_011548	1.16701
Mus musculus RIKEN cDNA 2310032K21 gene (2310032K21Rik), mRNA [NM_	NM_028001	-1.03738
RIKEN cDNA 2210018M11 gene	AK008751	-1.02923
Mus musculus olfactory receptor 551 (Olfr551), mRNA [NM_146755]	NM_146755	1.06672
Mus musculus taste receptor, type 1, member 2 (Tas1r2), mRNA [NM_031873]	NM_031873	-1.01989
Prion protein interacting protein 1	AY029599	-1.03571
Mus musculus cDNA sequence BC031748 (BC031748), mRNA [NM_146261]	NM_146261	1.0067
Mus musculus RIKEN cDNA D630045E04 gene (D630045E04Rik), mRNA [NM_	NM_153521	1.00143
RIKEN cDNA 2410039E07 gene	AK019115	1.00287
Mus musculus centromere autoantigen C (Cenpc), mRNA [NM_007683]	NM_007683	-1.59588
Mus musculus 5-hydroxytryptamine (serotonin) receptor 2B (Htr2b), mRNA [NM	NM_008311	-1.00748
Zinc finger protein 654	BC027760	-1.16778
RIKEN cDNA 1700019O17 gene	AK006136	-1.0474
hypothetical protein 6430704N06	AK032609	1.08418
CDNA sequence BC053460	BC059855	1.00975
Transient receptor potential cation channel, subfamily M, member 1	AK076406	1.03724
Mus musculus ubiquitin-conjugating enzyme E2A, RAD6 homolog (S. cerevisiae	NM_019668	-1.27752
Mus musculus oxysterol binding protein-like 2 (Osbp12), mRNA [NM_144500]	NM_144500	-1.01571
Mus musculus tryptophanyl tRNA synthetase 2 (mitochondrial) (Wars2), mRNA	NM_027462	1.04655
Mus musculus RIKEN cDNA A130042E20 gene (A130042E20Rik), mRNA [NM_	NM_172550	1.35989
OLFACTORY RECEPTOR MOR213-5. [Source:RefSeq;Acc:NM_146569] [ENSMUST00000006		1.05271
RIKEN cDNA 1500032H18 gene	BC020137	1.01467
Mus musculus enoyl-Coenzyme A, hydratase/3-hydroxyacyl Coenzyme A dehyd	NM_023737	-1.04608
Mus musculus RIKEN cDNA C030036P15 gene (C030036P15Rik), mRNA [NM_	NM_172757	1.03423
Potassium voltage-gated channel, subfamily H (eag-related), member 8	AK048629	1.01165
Mus musculus chemokine (C-C motif) ligand 22 (Ccl22), mRNA [NM_009137]	NM_009137	1
RAR-related orphan receptor beta	AK044421	1.29576
Mus musculus ubiquitin-like, containing PHD and RING finger domains, 1 (Uhrf1	NM_010931	-1.00677
Mus musculus olfactory receptor 1086 (Olfr1086), mRNA [NM_146592]	NM_146592	-1.10049
Mus musculus deafness, autosomal dominant 5 homolog (human) (Dfna5h), mF	NM_018769	-1.18763
Olfactory receptor 59	AF102538	1.07328
Mus musculus pre B-cell leukemia transcription factor 1 (Pbx1), transcript varian	NM_008783	1.03591
Mus musculus laminin, alpha 4 (Lama4), mRNA [NM_010681]	NM_010681	-1.17835
RIKEN cDNA 2810418N01 gene	AK013116	-1.15207
Mus musculus cell adhesion molecule-related/down-regulated by oncogenes (C	NM_021339	-1.47311
CDK5 regulatory subunit associated protein 2	AK013550	1.08503
Mus musculus interleukin-1 receptor-associated kinase 3 (Irak3), mRNA [NM_0	NM_028679	1.08025
Mus musculus membrane protein, palmitoylated 2 (MAGUK p55 subfamily mem	NM_016695	1.24362
Mus musculus RIKEN cDNA A430090E18 gene (A430090E18Rik), mRNA [NM_	NM_177578	1.02937
Nedd4 family interacting protein 1	AF220209	-1.76602
Mus musculus doublesex and mab-3 related transcription factor like family A2 (I	NM_172296	1.02504
RIKEN cDNA 1700049J03 gene	AK006745	1.81284
EST AA407452	BC066073	-1.27099
Mus musculus RIKEN cDNA A530087D17 gene (A530087D17Rik), mRNA [NM_	NM_177353	-1.2366
RIKEN cDNA 2900010J23 gene	AK039840	-1.01005
RIKEN cDNA 2810474O19 gene	BC055761	-1.21062
Trace amine-associated receptor 1	NM_053205	1.05448
RIKEN cDNA 9130012O13 gene	AK018615	1.00703
Mus musculus RIKEN cDNA 4933406N12 gene (4933406N12Rik), mRNA [NM_	NM_028937	1.16079
Mus musculus zinc finger, SWIM domain containing 2 (Zswim2), mRNA [NM_02	NM_027964	1.07147

Mus musculus RAB37, member of RAS oncogene family (Rab37), mRNA [NM_021411]	-1.04151
Mus musculus ADP-ribosylation factor 1 (Arf1), mRNA [NM_007476]	NM_007476 -1.23288
Pam, highwire, rpm 1	AK079289 1.20456
Mus musculus RIKEN cDNA 4833427G06 gene (4833427G06Rik), mRNA [NM_177702]	-1.28359
Mus musculus RIKEN cDNA 4932432K03 gene (4932432K03Rik), mRNA [NM_144535]	-1.28776
Mus musculus BCL2-like 11 (apoptosis facilitator) (Bcl2l11), transcript variant 1, NM_207680	1.17295
Mus musculus expressed sequence AI447904 (AI447904), mRNA [NM_175026]	NM_175026 -1.00662
Mus musculus peptidase 4 (Pep4), mRNA [NM_008820]	NM_008820 -1.33201
Mus musculus RIKEN cDNA 3110024A21 gene (3110024A21Rik), mRNA [NM_024215]	-1.13301
RUN and SH3 domain containing 2	AK053542 -1.00075
Mus musculus cathepsin S (Ctss), mRNA [NM_021281]	NM_021281 -1.4223
Nuclear receptor subfamily 2, group C, member 2	AK077897 1.011
Mus musculus CCAAT/enhancer binding protein (C/EBP), delta (Cebpd), mRNA [NM_007679]	-1.07041
Mus musculus seven in absentia 1B (Siah1b), mRNA [NM_009173]	NM_009173 -1.69701
Splicing factor, arginine/serine-rich 8	BC058689 -1.04112
Mus musculus apelin (Apln), mRNA [NM_013912]	NM_013912 -1.03181
Nuclear receptor subfamily 0, group B, member 1	NM_007430 -1.02636
Kinesin family member 3A	AK053412 -1.33349
Pyridoxal (pyridoxine, vitamin B6) kinase	NM_172134 1.30127
Mus musculus prostaglandin E receptor 3 (subtype EP3) (Ptger3), mRNA [NM_011196]	-1.03558
Mus musculus CD151 antigen (Cd151), mRNA [NM_009842]	NM_009842 -1.01014
RIKEN cDNA 2610206B13 gene	AK020974 1.02787
Mus musculus BCL2/adenovirus E1B 19kDa-interacting protein 1, NIP3 (Bnip3), NM_009760	-1.37165
RIKEN cDNA 4933403G17 gene	AK016633 1.03514
Ankyrin 2, brain	AK036018 1.1518
Mus musculus cDNA sequence BC021790 (BC021790), mRNA [NM_144824]	NM_144824 1.00022
Suppression of tumorigenicity 7-like	AK030273 -1.17895
Mus musculus RIKEN cDNA C030002N13 gene (C030002N13Rik), mRNA [NM_145550]	-1.1201
Mus musculus transforming growth factor, beta receptor II (Tgfb2), transcript variant 1, NM_009371	-1.13335
Mus musculus expressed sequence AI173486 (AI173486), mRNA [NM_178928]	NM_178928 -1.20468
Mus musculus RIKEN cDNA 2010301N04 gene (2010301N04Rik), mRNA [NM_024251]	-1.09342
Mus musculus insulin-like growth factor binding protein-like 1 (Igfbp1), mRNA [NM_018741]	1.00932
Mus musculus hyaluronan and proteoglycan link protein 3 (Hapln3), mRNA [NM_178255]	1.08558
Mus musculus SEC8-like 1 (S. cerevisiae) (Sec8l1), mRNA [NM_009148]	NM_009148 -1.00269
Mus musculus UDP-galactose translocator 2 (Ugal2), mRNA [NM_016752]	NM_016752 -1.1906
Mus musculus monocyte macrophage 19 (Mmrp19), mRNA [NM_019735]	NM_019735 -1.45273
Mus musculus RIKEN cDNA 1110001E17 gene (1110001E17Rik), mRNA [NM_144534]	-1.09474
RIKEN cDNA 2700029M09 gene	BC042740 -1.26575
Mus musculus T lymphoma oncogene (TIm), mRNA [NM_011601]	NM_011601 -1.11912
Tetraspan 2	AK079560 -1.34233
Mus musculus metallothionein 1 (Mt1), mRNA [NM_013602]	NM_013602 -1.02313
RIKEN cDNA 4921520L01 gene	AK014932 1.06187
Mus musculus transmembrane 9 superfamily protein member 4 (Tm9sf4), mRNA [NM_133847]	1.16518
Mus musculus meningioma expressed antigen 5 (hyaluronidase) (Mgea5), mRNA [NM_023799]	1.0865
Membrane-associated ring finger (C3HC4) 6	AK042980 -1.04825
Mus musculus serologically defined colon cancer antigen 8 (Sdccag8), mRNA [NM_029756]	-1.00478
Mus musculus calcium/calmodulin-dependent protein kinase II alpha (Camk2a), NM_009792	1.0716
Mus musculus prolactin induced protein (Pip), mRNA [NM_008843]	NM_008843 1.08878
Mus musculus taste receptor, type 1, member 3 (Tas1r3), mRNA [NM_031872]	NM_031872 1.06781
RIKEN cDNA 9430072K23 gene	BC004722 2.05814
Mus musculus thyrotroph embryonic factor (Tef), transcript variant 2, mRNA [NM_153484]	1.00518
Mus musculus RIKEN cDNA 0610012D17 gene (0610012D17Rik), mRNA [NM_025329]	-1.40556

Aortic preferentially expressed gene 1	BC062643	-1.11137
TBC1 domain family, member 21	AK007086	1.0533
RIKEN cDNA 2410129H14 gene	AK047481	-1.06057
Mus musculus UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptid	NM_022305	1.04418
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:	AK006960	-1.69382
Mus musculus dynactin 1 (Dctn1), mRNA [NM_007835]	NM_007835	1.58253
Cyclin-dependent kinase-like 5	AK052380	1.40138
Mus musculus cDNA sequence BC004701 (BC004701), mRNA [NM_146235]	NM_146235	1.02209
Mus musculus olfactory receptor 69 (Olfr69), mRNA [NM_013621]	NM_013621	1.05057
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:	AK016089	1
Mus musculus TYRO protein tyrosine kinase binding protein (Tyrobp), mRNA [NNM_011662]		-1.62881
Mus musculus protocadherin gamma subfamily B, 4 (Pcdhgb4), mRNA [NM_03:NM_033576]		1.06877
OLFACTORY RECEPTOR GA_X5J8B7TUND4-2-664 (FRAGMENT). [Source:SPTREMBL;Acc		1.08012
A disintegrin and metalloprotease domain 10	AK021184	-1.39666
Mus musculus zinc finger protein 277 (Zfp277), mRNA [NM_172575]	NM_172575	-1.00999
Mus musculus insulin receptor substrate 3 (Irs3), mRNA [NM_010571]	NM_010571	1.01187
Mus musculus guanine nucleotide binding protein (G protein), gamma 11 (Gng1	NM_025331	-1.04892
Mus musculus centromere protein E (Cenpe), mRNA [NM_173762]	NM_173762	-1.0825
RIKEN cDNA 3222402P14 gene	BC031532	1.03154
Mus musculus RIKEN cDNA 5730469M10 gene (5730469M10Rik), mRNA [NM_NM_027464]		-1.36126
Mus musculus RAB5C, member RAS oncogene family (Rab5c), mRNA [NM_02 NM_024456]		-1.06276
RIKEN cDNA 1700061J05 gene	AK006856	-1.0918
Mus musculus solute carrier family 1 (glutamate/neutral amino acid transporter),	NM_018861	1.06313
Mus musculus pyruvate dehydrogenase kinase, isoenzyme 4 (Pdk4), mRNA [NI	NM_013743	-1.30817
Mus musculus cytochrome P450, family 4, subfamily f, polypeptide 15 (Cyp4f15	NM_134127	1.02624
Mus musculus taste receptor, type 2, member 119 (Tas2r119), mRNA [NM_020	NM_020503	1.07517
Mus musculus transgelin (Tagln), mRNA [NM_011526]	NM_011526	1.3866
Mus musculus sterol-C4-methyl oxidase-like (Sc4mol), mRNA [NM_025436]	NM_025436	-1.4292
Mus musculus leucine rich protein, B7 gene (Lrpb7), mRNA [NM_013588]	NM_013588	-1.04436
Mus musculus uveal autoantigen with coiled-coil domains and ankyrin repeats (I	NM_028283	1.03061
Mus musculus ATP-binding cassette, sub-family F (GCN20), member 2 (Abcf2),	NM_013853	1.0183
Mus musculus galactose mutarotase (Galm), mRNA [NM_176963]	NM_176963	1.03791
Mus musculus golgi SNAP receptor complex member 2 (Gosr2), mRNA [NM_01	NM_019650	1.01018
RIKEN cDNA A530088I07 gene	AK080244	1.08733
Paternally expressed 3	NM_008817	1.18589
Mus musculus progressive external ophthalmoplegia 1 (human) (Peo1), mRNA	NM_153796	1.08332
Mus musculus RIKEN cDNA 9930023K05 gene (9930023K05Rik), mRNA [NM_	NM_172641	-1.04053
Mus musculus chemokine (C-C motif) ligand 17 (Ccl17), mRNA [NM_011332]	NM_011332	-1.19892
RIKEN cDNA 5730455O13 gene	AK077572	-1.19372
Mus musculus protocadherin beta 16 (Pcdhb16), mRNA [NM_053141]	NM_053141	-1.06104
Mus musculus RIKEN cDNA A530089I17 gene (A530089I17Rik), mRNA [NM_1	NM_133999	1.13979
Protein phosphatase 1, regulatory (inhibitor) subunit 16B	AK042123	1.06539
Adult male aorta and vein cDNA, RIKEN full-length enriched library, clone:A530	BB206048	-1.65329
Mus musculus olfactory receptor 218 (Olfr218), mRNA [NM_001001809]	NM_00100180	1.05406
Mus musculus procollagen, type XVIII, alpha 1 (Col18a1), mRNA [NM_009929]	NM_009929	-1.0674
Mus musculus eukaryotic translation initiation factor 2B, subunit 1 (alpha) (Eif2b	NM_145371	-1.00292
Mus musculus WD repeat domain 8 (Wdr8), mRNA [NM_021499]	NM_021499	1.0551
Mus musculus proline-rich protein 9-1 mRNA, partial cds.	AF020312	1.12288
A54857 transcription factor NF-AT 45K chain - human, partial (54%) [TC965491]		-1.04165
Fibronectin type III domain containing 3a	NM_207636	1.04629
Mus musculus spondin 2, extracellular matrix protein (Spon2), mRNA [NM_133	NM_133903	1.12736
Mus musculus RIKEN cDNA 1700054O13 gene (1700054O13Rik), mRNA [NM_	NM_026096	1.08021

hypothetical protein 9530076L18	AK035610	-1.10481
Mus musculus RIKEN cDNA F630021I08 gene (F630021I08Rik), mRNA [NM_178743]	NM_178743	-1.19612
Mus musculus histone 1, H3a (Hist1h3a), mRNA [NM_013550]	NM_013550	1.35748
Mus musculus allergen dl chain C2C (C2c-pending), mRNA [XM_284375]	XM_284375	1.0883
Mus musculus LIM domain binding 2 (Ldb2), mRNA [NM_010698]	NM_010698	1.01949
Kallikrein 1	X00472	-1.02238
Mus musculus RIKEN cDNA 1700110N18 gene (1700110N18Rik), mRNA [XM_283372]	XM_283372	-1.04815
ATP-binding cassette, sub-family A (ABC1), member 6	AK040652	1.01853
Mus musculus calbindin-28K (Calb1), mRNA [NM_009788]	NM_009788	1.02441
RIKEN cDNA E130314M14 gene	AK012959	-1.07152
Mus musculus ribosomal protein L38 (Rpl38), mRNA [NM_023372]	NM_023372	-1.09041
Zinc finger, DHHC domain containing 8	BC004683	1.08116
Mus musculus thioesterase domain containing 1 (Thedc1), mRNA [NM_145921]	NM_145921	1.10411
Mus musculus RIKEN cDNA 1700030K01 gene (1700030K01Rik), mRNA [NM_029343]	NM_029343	1.07622
Mus musculus adult female vagina cDNA, RIKEN full-length enriched library, clone AK079439	AK079439	-1.26041
Mus musculus syntrophin, gamma 2 (Sntg2), mRNA [NM_172951]	NM_172951	1.03136
Mus musculus RIKEN cDNA C030019F02 gene (C030019F02Rik), mRNA [NM_021426]	NM_021426	-1.24294
Mus musculus Eph receptor A5 (Epha5), mRNA [NM_007937]	NM_007937	-1.00506
Lymphocyte antigen 6 complex, locus G6E	AK009303	-1.04688
Mus musculus CD6 antigen (Cd6), mRNA [NM_009852]	NM_009852	1.08263
Mus musculus myosin, light polypeptide 4 (MyI4), mRNA [NM_010858]	NM_010858	1.13193
RIKEN cDNA 2700089E24 gene	AK077261	-1.59213
Mus musculus engrailed 1 (En1), mRNA [NM_010133]	NM_010133	1.07401
Mus musculus guanine nucleotide binding protein, alpha 14 (Gna14), mRNA [NM_008137]	NM_008137	1.00481
Mus musculus RIKEN cDNA 2610019A05 gene (2610019A05Rik), mRNA [NM_028126]	NM_028126	-1.07237
Mus musculus zinc finger protein 120 (Zfp120), mRNA [NM_181267]	NM_181267	-1.27087
Mus musculus Max interacting protein 1 (Mxi1), mRNA [NM_010847]	NM_010847	-1.1582
Mus musculus mevalonate kinase (Mvk), mRNA [NM_023556]	NM_023556	1.07226
Mus musculus RIKEN cDNA A530015O12 gene (A530015O12Rik), mRNA [NM_00100149]	NM_00100149	-1.09231
Mus musculus complement component 3 (C3), mRNA [NM_009778]	NM_009778	-1.07525
Mus musculus Cd209e antigen (Cd209e), mRNA [NM_130905]	NM_130905	1.08977
Mus musculus WW domain-containing oxidoreductase (Wwox), mRNA [NM_019573]	NM_019573	-1.07409
Membrane-spanning 4-domains, subfamily A, member 1	M62541	1.02555
Mus musculus RIKEN cDNA 1110021H02 gene (1110021H02Rik), mRNA [NM_025388]	NM_025388	-1.26438
Mus musculus vestigial like 2 homolog (Drosophila) (Vgll2), mRNA [NM_153786]	NM_153786	-1.13991
Mus musculus homeo box C12 (Hoxc12), mRNA [NM_010463]	NM_010463	1.3293
Gene model 1549, (NCBI)	AJ319753	-1.1845
Mus musculus ras homolog gene family, member U (Rhou), mRNA [NM_133955]	NM_133955	-1.44541
RIKEN cDNA 3222402P14 gene	AK087301	1.11971
Mus musculus LIM and cysteine-rich domains 1 (Lmcd1), mRNA [NM_144799]	NM_144799	-1.03587
Mus musculus matrix metalloproteinase 13 (Mmp13), mRNA [NM_008607]	NM_008607	-1.05331
Mus musculus RIKEN cDNA 1810063P04 gene (1810063P04Rik), mRNA [NM_024440]	NM_024440	-1.02213
Mus musculus cysteine conjugate-beta lyase (Ccb1), mRNA [NM_172404]	NM_172404	1.08768
Mus musculus stem-loop binding protein (Slbp), mRNA [NM_009193]	NM_009193	-1.78643
Mus musculus protein phosphatase 1G (formerly 2C), magnesium-dependent, gamma	NM_008014	1.15826
Cat eye syndrome chromosome region, candidate 2 homolog (human)	AK048095	1.44804
Mus musculus zinc finger protein 1 (Zfp1), mRNA [NM_011742]	NM_011742	-1.49233
Mus musculus RIKEN cDNA 2610027L16 gene (2610027L16Rik), mRNA [NM_026403]	NM_026403	-1.03538
Mus musculus fascin homolog 3, actin-bundling protein, testicular (Strongylocentrotus) (Strongylocentrotus)	NM_019569	1.02467
Mus musculus secretoglobin, family 3A, member 1 (Scgb3a1), transcript variant 1	NM_170727	-1.19948
Mus musculus CD 207 antigen (Cd207), mRNA [NM_144943]	NM_144943	-1.11071
Mus musculus expressed sequence AA960436 (AA960436), mRNA [NM_133955]	NM_133955	1.1759

Mus musculus RIKEN cDNA 9530081K03 gene (9530081K03Rik), mRNA [NM_030127		1.00491
Mus musculus sulfotransferase family 1E, member 1 (Sult1e1), mRNA [NM_023135		1.08265
Zinc finger protein 119	AK047498	1.20257
Transformation/transcription domain-associated protein	BC008264	-1.09379
Mus musculus mitogen activated protein kinase 13 (Mapk13), mRNA [NM_011950		1.09959
G protein-coupled receptor 115	AK019508	1.08141
Mus musculus proline-rich polypeptide 3 (Prr3), mRNA [NM_145487]	NM_145487	1.03457
Mus musculus cDNA sequence BC022651 (BC022651), mRNA [NM_177887]	NM_177887	1.02547
Mus musculus RIKEN cDNA 2410005O16 gene (2410005O16Rik), mRNA [NM_025476		-1.17596
Mus musculus protein phosphatase 2, regulatory subunit B (B56), epsilon isoform	NM_012024	1.09916
Synaptic vesicle glycoprotein 2c	AK015921	-1.21251
Mus musculus G kinase anchoring protein 1 (Gkap1), mRNA [NM_019832]	NM_019832	-1.22624
Mus musculus RIKEN cDNA 1110012L19 gene (1110012L19Rik), mRNA [NM_026787]		-1.25063
Mus musculus gap junction membrane channel protein beta 5 (Gjb5), mRNA [NM_010291		-1.12141
Cytochrome P450, family 2, subfamily c, polypeptide 66	AK008688	1.14882
Mus musculus amyloid beta precursor protein (cytoplasmic tail) binding protein 2	NM_025825	-1.05235
Mus musculus olfactory receptor 1340 (Olfr1340), mRNA [NM_146304]	NM_146304	1.05173
Mus musculus membrane bound C2 domain containing protein (Mbc2), mRNA [NM_011843		1.092
CDNA sequence BC031601	BC059049	-1.31365
Mus musculus urotensin 2 (Uts2), mRNA [NM_011910]	NM_011910	1.03228
Mus musculus crystallin, zeta (quinone reductase)-like 1 (Cryz1), mRNA [NM_133679		-1.15875
Mus musculus RAS p21 protein activator 1 (Rasa1), mRNA [NM_145452]	NM_145452	-1.21575
Mus musculus matrix metalloproteinase 15 (Mmp15), mRNA [NM_008609]	NM_008609	1.1717
Mus musculus Bardet-Biedl syndrome 1 homolog (human) (Bbs1), mRNA [XM_355129		-1.15893
Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 2 (Arabidopsis)	NM_009939	-1.22426
gene regulated by estrogen in breast cancer protein	NM_015764	1.20082
Mus musculus destrin (Dstn), mRNA [NM_019771]	NM_019771	-1.9074
Mus musculus Gli pathogenesis-related 1 (glioma) (Glipr1), mRNA [NM_028608		-1.27713
Mus musculus RIKEN cDNA 4632404H22 gene (4632404H22Rik), mRNA [NM_030167		1.02423
Mus musculus interleukin 17 receptor D (Il17rd), mRNA [NM_134437]	NM_134437	1.08614
Mus musculus 0 day neonate head cDNA, RIKEN full-length enriched library, clone	AK019527	1.06203
Mus musculus RIKEN cDNA 4933428G09 gene (4933428G09Rik), mRNA [NM_025755		-1.38666
Immunoglobulin heavy chain (J558 family)	U26470	1.13539
Mus musculus RIKEN cDNA 2610206B13 gene (2610206B13Rik), mRNA [NM_026047		-1.09577
Mus musculus solute carrier family 20, member 1 (Slc20a1), mRNA [NM_01574		-1.21916
Mus musculus mitochondrial ribosomal protein L53 (Mrpl53), mRNA [NM_02674		-1.26899
Mus musculus nuclear interacting partner of anaplastic lymphoma kinase (Alk) (	NM_172735	1.07471
Mus musculus NOD-derived CD11c +ve dendritic cells cDNA, RIKEN full-length	AK089251	1.17011
Zinc finger protein 655	NM_028298	-1.45637
M. musculus mRNA for SOX19 protein.	X98368	1.2074
RIKEN cDNA 2010003K11 gene	BC021951	-1.03844
Mus musculus stimulated by retinoic acid gene 6 (Stra6), mRNA [NM_009291]	NM_009291	1.01535
Mus musculus RIKEN cDNA 1200016D23 gene (1200016D23Rik), mRNA [NM_028776		-1.22038
Mus musculus karyopherin (importin) alpha 4 (Kpna4), mRNA [NM_008467]	NM_008467	-1.09893
Mus musculus globoside alpha-1,3-N-acetylgalactosaminyltransferase 1 (Gbg1)	NM_139197	1.01203
Mus musculus RIKEN cDNA 2610009I02 gene (2610009I02Rik), mRNA [NM_028115		1.01005
Mus musculus chloride intracellular channel 4 (mitochondrial) (Clc4), mRNA [NM_013885		-1.12979
Mus musculus discoidin, CUB and LCCL domain containing 1 (Dcbl1), mRNA [NM_025705		-1.03579
Mus musculus solute carrier family 27 (fatty acid transporter), member 4 (Slc27		-1.20872
RIKEN cDNA 4933433K01 gene	AK077214	1.09154
N-ethylmaleimide sensitive fusion protein attachment protein beta	X61450	-1.03646
Mus musculus solute carrier family 39 (zinc transporter), member 7 (Slc39a7), mRNA [NM_008202		1.10747

RIKEN cDNA 6720464I07 gene	AK054460	1.2276
TNF receptor-associated factor 3 interacting protein 1	AK014457	-1.11921
hypothetical Steroid 5-alpha reductase, C-terminal domain containing protein [0610031P22]		1.02021
RIKEN cDNA 2310061F22 gene	BC042207	1.05425
Mus musculus ubiquitin-activating enzyme E1-domain containing 1 (Ube1dc1), r	NM_025692	-1.10655
Mus musculus trinucleotide repeat containing 4 (Tnrc4), mRNA [NM_172434]	NM_172434	1.05528
15 days embryo male testis cDNA, RIKEN full-length enriched library, clone:803	AK033203	-1.07252
Mus musculus ATP-binding cassette, sub-family G (WHITE), member 3 (Abcg3)	NM_030239	1.12037
Mus musculus NADPH oxidase 1 (Nox1), mRNA [NM_172203]	NM_172203	-1.02603
Mus musculus somatostatin receptor 3 (Sstr3), mRNA [NM_009218]	NM_009218	1.07436
Mus musculus RIKEN cDNA 3110082I17 gene (3110082I17Rik), mRNA [NM_028469]	NM_028469	-1.52691
Mus musculus eukaryotic translation initiation factor 2 alpha kinase 4 (Eif2ak4),	NM_013719	-1.01705
Mus musculus RIKEN cDNA 1700124B08 gene (1700124B08Rik), mRNA [NM_029696]	NM_029696	1.01656
Mus musculus extraembryonic, spermatogenesis, homeobox 1 (Esx1), mRNA [NM_007957]	NM_007957	1.07344
Mus musculus cytochrome c, somatic (Cycs), mRNA [NM_007808]	NM_007808	-1.52325
Spastic paraplegia 20, spartin (Troyer syndrome) homolog (human)	AK087388	-1.37547
RNA binding motif protein 11	AK039297	-1.15195
Mus musculus dehydrolipoyl diphosphate synthase (Dhdds), mRNA [NM_026144]	NM_026144	1.01506
Mus musculus YY1 associated factor 2 (Yaf2), mRNA [NM_024189]	NM_024189	-1.38882
Mus musculus regulator of G-protein signaling 9 (Rgs9), mRNA [NM_011268]	NM_011268	1.02241
RNA binding protein gene with multiple splicing	AK079238	1.16828
Mus musculus zinc finger, DHHC domain containing 14 (Zdhhc14), mRNA [NM_146073]	NM_146073	1.09662
hypothetical protein B230105J10	AK045359	1.03425
SH3-binding kinase 1	NM_145587	1.18421
RIKEN cDNA 2510002A14 gene	NM_028194	-1.09381
Mus musculus dual oxidase 2 (Duox2), mRNA [NM_177610]	NM_177610	1.33108
Mus musculus RIKEN cDNA 0610040J01 gene (0610040J01Rik), mRNA [NM_029554]	NM_029554	-1.25833
Cyclin-dependent kinase 6	AK030810	-1.09548
Mus musculus olfactory receptor 1507 (Olfr1507), mRNA [NM_020512]	NM_020512	-1.01102
Myosin, heavy polypeptide 1, skeletal muscle, adult	AK041122	1.10744
Mus musculus RIKEN cDNA 1700011C14 gene (1700011C14Rik), mRNA [NM_029659]	NM_029659	-1.11538
Sidekick homolog 2 (chicken)	AK030591	1.03527
Ubiquitin-conjugating enzyme E2S	AK003078	-1.19205
CDNA sequence BC025872	NM_178593	1.0861
RIKEN cDNA 0610013E23 gene	AK079278	-1.03364
Mus musculus processing of precursor 1, ribonuclease P/MRP family, (S. cerevisiae)	NM_026340	1.02029
Mus musculus RIKEN cDNA A230078I01 gene (A230078I01Rik), mRNA [NM_177747]	NM_177747	-1.00009
Mus musculus RIKEN cDNA 9230002F21 gene (9230002F21Rik), mRNA [NM_00100279]	NM_00100279	-1.01692
Mus musculus DNA segment, Chr 13, ERATO Doi 275, expressed (D13Erd275)	NM_027272	-1.02487
RIKEN cDNA A230098A12 gene	AK039115	-1.33902
Mus musculus similar to olfactory receptor MOR226-1 (LOC329460), mRNA [XM_285364]	XM_285364	1.07271
Mus musculus ubiquitin specific protease 49 (Usp49), mRNA [NM_020048]	NM_020048	-1.06253
Adrenergic receptor, alpha 2a	AK046802	1.10183
Mus musculus deleted in malignant brain tumors 1 (Dmbt1), mRNA [NM_007766]	NM_007766	-1.00962
Mus musculus cDNA sequence BC016235 (BC016235), mRNA [NM_145419]	NM_145419	-1.06392
Mus musculus B-cell translocation gene 4 (Btg4), mRNA [NM_019493]	NM_019493	1.00744
Mus musculus RIKEN cDNA 1810074P20 gene (1810074P20Rik), mRNA [NM_026194]	NM_026194	1.0352
peroxisomal acyl-CoA thioesterase 2A	NM_134246	1.13627
Mus musculus inhibin alpha (Inha), mRNA [NM_010564]	NM_010564	1.1708
hypothetical protein A930013K19	NM_172708	1.04581
Mus musculus coagulation factor III (F3), mRNA [NM_010171]	NM_010171	-1.53681
Mus musculus PAK1 interacting protein 1 (Pak1ip1), mRNA [NM_026550]	NM_026550	-1.15435

Titin	AK035141	1.32281
Mus musculus RIKEN cDNA 1200016B17 gene (1200016B17Rik), mRNA [NM_	NM_026267	-1.37628
Mus musculus RIKEN cDNA A230048G03 gene, mRNA (cDNA clone MGC:286	BC019508	-1.66355
RIKEN cDNA D330037H05 gene	AK049756	1.12271
Mus musculus RIKEN cDNA E430028B21 gene (E430028B21Rik), mRNA [NM_	NM_178668	-1.23373
RIKEN cDNA 2700092H06 gene	AK083290	-1.06143
Mus musculus RIKEN cDNA 5830451P18 gene (5830451P18Rik), mRNA [NM_	NM_201637	1.00982
Mus musculus receptor (calcitonin) activity modifying protein 2 (Ramp2), mRNA	NM_019444	-1.00767
Mus musculus cDNA sequence AY078069 (AY078069), mRNA [NM_172142]	NM_172142	-1.04124
Mus musculus RIKEN cDNA 1110019C08 gene (1110019C08Rik), mRNA [NM_	NM_171826	1.02788
Mus musculus RIKEN cDNA C130060K24 gene (C130060K24Rik), mRNA [NM_	NM_175524	-1.31336
Mus musculus neurotensin receptor (Ntsr), mRNA [NM_018766]	NM_018766	-1.03818
RIKEN cDNA 2610034B04 gene	AK011653	1.42048
RIKEN cDNA 6530409C15 gene	AK018330	1.0597
Mus musculus A kinase (PRKA) anchor protein 8-like (Akap8l), mRNA [NM_017	NM_017476	1.38762
RIKEN cDNA 1700121K02 gene	AK007228	1.24309
RIKEN cDNA 6330505F04 gene	BC051161	1
Mus musculus synaptogyrin 4 (Syngr4), mRNA [NM_021482]	NM_021482	1.19326
DEP domain containing 5	AK052458	-1.10332
Mus musculus MAD homolog 9 (Drosophila) (Smad9), mRNA [NM_019483]	NM_019483	1.12087
Mus musculus olfactory receptor 643 (Olfr643), mRNA [NM_147077]	NM_147077	1.03007
RIKEN cDNA B230374F23 gene	NM_177059	1.08405
Mus musculus cartilage intermediate layer protein, nucleotide pyrophosphohydr	NM_173385	1.07201
Mus musculus chimerin (chimaerin) 2 (Chn2), mRNA [NM_023543]	NM_023543	-1.04313
Mus musculus N-acetyltransferase 3 (Nat3), mRNA [NM_008674]	NM_008674	-1.03759
DNA segment, Chr 17, ERATO Doi 441, expressed	AK013201	-1.25035
Mus musculus rabaptin, RAB GTPase binding effector protein 2 (Rabep2), mRN	NM_030566	-1.20741
Mus musculus tuberous sclerosis 1 (Tsc1), mRNA [NM_022887]	NM_022887	1.09046
Mus musculus lymphocyte antigen 6 complex, locus G5B (Ly6g5b), mRNA [NM_	NM_148939	1.13742
Mus musculus RAS guanyl releasing protein 1 (Rasgrp1), mRNA [NM_011246]	NM_011246	-1.08273
Mannosidase 2, alpha 2	BC055006	-1.05103
Mus musculus ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide	NM_025710	-1.63698
Mus musculus heterogeneous nuclear ribonucleoprotein K (Hnrpk), mRNA [NM_	NM_025279	-1.30063
RIKEN cDNA 4930579F01 gene	AK006190	-1.15258
Mus musculus olfactory receptor 1271 (Olfr1271), mRNA [NM_146793]	NM_146793	1.215
Mus musculus dystrophin related protein 2 (Drp2), mRNA [NM_010078]	NM_010078	1.08093
Rho-related BTB domain containing 1	AK005770	1.0128
Mus musculus expressed sequence AI324046 (AI324046), mRNA [NM_198640]	NM_198640	1.10561
Expressed sequence C87414	AK054302	2.4586
Mus musculus Casitas B-lineage lymphoma c (Cb1c), mRNA [NM_023224]	NM_023224	1.05664
Zinc finger, MYND domain containing 17	AK014794	1.02456
Mus musculus heme binding protein 1 (Hebp1), mRNA [NM_013546]	NM_013546	-1.21044
ADP-ribosylation factor-like 12	AK032519	-1.00578
Mus musculus protein tyrosine phosphatase, receptor type, U (Ptpru), mRNA [N	NM_011214	1.14622
Mus musculus olfactory receptor 448 (Olfr448), mRNA [NM_146273]	NM_146273	1.1073
Mus musculus RIKEN cDNA 4921522E24 gene (4921522E24Rik), mRNA [NM_	NM_027600	1.05987
Mus musculus decorin (Dcn), mRNA [NM_007833]	NM_007833	-1.0759
Mus musculus chemokine (C-X-C motif) ligand 14 (Cxcl14), mRNA [NM_019568]	NM_019568	-1.15393
Mus musculus S100 calcium binding protein A10 (calpactin) (S100a10), mRNA	NM_009112	-1.24794
Mus musculus RIKEN cDNA 1810010M01 gene (1810010M01Rik), mRNA [NM_	NM_026918	1.06498
Mus musculus rhodopsin (Rho), mRNA [NM_145383]	NM_145383	1.01628
Protein phosphatase 2, regulatory subunit B (B56), epsilon isoform	AK014554	1.00423

Mus musculus ATP synthase, H ⁺ transporting, mitochondrial F1 complex, gamn	NM_020615	-1.30064
Mus musculus NOD-derived CD11c +ve dendritic cells cDNA, RIKEN full-length	AK089204	1.1161
Mus musculus cDNA sequence BC029892 (BC029892), mRNA [NM_207523]	NM_207523	-1.16602
Chemokine (C-C motif) ligand 20	AB015136	-1.08479
Mus musculus receptor (calcitonin) activity modifying protein 3 (Ramp3), mRNA	NM_019511	-1.16099
Mus musculus prominin 2 (Prom2), mRNA [NM_138750]	NM_138750	1.04568
Mus musculus proteasome (prosome, macropain) subunit, beta type 3 (Psm3),	NM_011971	-1.13499
Mus musculus RIKEN cDNA B230217C06 gene (B230217C06Rik), mRNA [NM_175516]	NM_175516	-1.01888
Mus musculus apolipoprotein B (ApoB), mRNA [XM_137955]	XM_137955	-1.10627
Mus musculus calcium/calmodulin-dependent protein kinase I (Camk1), mRNA	NM_133926	1.05189
Mus musculus Fanconi anemia, complementation group C (FancC), mRNA [NM_007985]	NM_007985	1.01328
Down syndrome cell adhesion molecule-like 1	AF487345	1.14902
Mus musculus extra cellular link domain-containing 1 (Xlkd1), mRNA [NM_0532]	NM_0532	1.3316
Collagen and calcium binding EGF domains 1	AK035153	1.18376
Mus musculus methyl-CpG binding domain protein 3-like 2 (Mbd3l2), mRNA [NM_144934]	NM_144934	-1.07206
RIKEN cDNA 5730406M06 gene	AK035634	-1.28607
Mus musculus chemokine-like factor super family 2B (Cklfsf2b), mRNA [NM_021028]	NM_021028	1.08456
Mus musculus guanine nucleotide binding protein, alpha 11 (Gna11), mRNA [NM_010301]	NM_010301	1.01219
Actin-binding LIM protein 1	AK029371	1.04369
Mus musculus ribosomal protein S7 (Rps7), mRNA [NM_011300]	NM_011300	-1.28501
Mus musculus cDNA sequence BC022145 (BC022145), mRNA [NM_144830]	NM_144830	-1.13289
Aquaporin 7	AB010100	1.03104
Mus musculus linker for activation of T cells (Lat), mRNA [NM_010689]	NM_010689	-1.46953
Mus musculus histocompatibility 2, class II, locus Mb1 (H2-DMb1), mRNA [NM_010387]	NM_010387	-1.12434
Mus musculus zinc finger protein 87 (Zfp87), mRNA [NM_133228]	NM_133228	-1.00455
Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 14 (Nudt14), mRNA [NM_025399]	NM_025399	1.17366
Extra spindle poles-like 1 (<i>S. cerevisiae</i>)	AK076351	1
Mus musculus tumor necrosis factor receptor superfamily, member 13b (Tnfrsf13b), mRNA [NM_021349]	NM_021349	-1.12939
Spermatogenesis associated glutamate (E)-rich protein 5, pseudogene 1	AK005695	-1.16808
Mus musculus RIKEN cDNA D130049O21 gene (D130049O21Rik), mRNA [NM_198632]	NM_198632	1.06272
Mus musculus solute carrier family 22 (organic anion transporter), member 8 (SLC22A8), mRNA [NM_031194]	NM_031194	1.12824
Mus musculus amine oxidase, copper containing 3 (Aoc3), mRNA [NM_009675]	NM_009675	-1.15318
Mus musculus SCY1-like 1 (<i>S. cerevisiae</i>) (Scy1), mRNA [NM_023912]	NM_023912	-1.14703
Mus musculus fragile X mental retardation syndrome 1 homolog (Fmr1), mRNA [NM_008031]	NM_008031	-1.74713
RIKEN cDNA 2210404D11 gene	AK051724	-1.02974
Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetyltransferase 1 (Uga1), mRNA [NM_026449]	NM_026449	1.05857
Mus musculus basic leucine zipper nuclear factor 1 (Blzf1), mRNA [NM_025505]	NM_025505	-1.40843
Mus musculus Luc7 homolog (<i>S. cerevisiae</i>)-like (Luc7l), mRNA [NM_025881]	NM_025881	1.08566
Mus musculus aldehyde dehydrogenase 9, subfamily A1 (Aldh9a1), mRNA [NM_019993]	NM_019993	-1.17028
Mus musculus anterior gradient 2 (<i>Xenopus laevis</i>) (Agr2), mRNA [NM_011783]	NM_011783	-1.26184
Mus musculus TGF-beta1-induced anti-apoptotic factor 2 (Tiaf2), mRNA [NM_153061]	NM_153061	1.13586
RIKEN cDNA 4933413L06 gene	BY716484	1.02956
Mus musculus RIKEN cDNA 2810417D08 gene (2810417D08Rik), mRNA [NM_027421]	NM_027421	1.14474
RIKEN cDNA 3222401M22 gene	AK014318	-1.24673
Mus musculus RIKEN cDNA A330096I21 gene (A330096I21Rik), mRNA [NM_144929]	NM_144929	1.06758
Fat tumor suppressor homolog (<i>Drosophila</i>)	BC041794	-1.2642
Mus musculus RIKEN cDNA 2610311M19 gene (2610311M19Rik), mRNA [NM_175384]	NM_175384	1.02928
Mus musculus RIKEN cDNA B230118H07 gene (B230118H07Rik), mRNA [NM_026592]	NM_026592	-1.30972
Mus musculus gene model 111, (NCBI) (Gm111), mRNA [NM_207234]	NM_207234	1.04601
H1 histone family, member 0	X52264	-1.23313
Mus musculus kyphoscoliosis (Ky), mRNA [NM_024291]	NM_024291	-1.12302
Mus musculus jumping translocation breakpoint (Jtb), mRNA [NM_206924]	NM_206924	-1.58979

Mus musculus Eph receptor B3 (Ephb3), mRNA [NM_010143]	NM_010143	1.14747
Mus musculus DNA segment, Chr 16, Wayne State University 109, expressed (I	NM_138599	-1.03687
RIKEN cDNA 4933431119 gene	AK017005	1.08874
Mus musculus RIKEN cDNA 2900010M23 gene (2900010M23Rik), mRNA [NM_NM_026063]		-1.11201
Mus musculus RIKEN cDNA 2310039E09 gene (2310039E09Rik), mRNA [NM_NM_026509]		-1.1147
Phospholipase A2, group IVB (cytosolic)	AK037218	1.02511
Mus musculus creatine kinase, muscle (Ckm), mRNA [NM_007710]	NM_007710	1.28149
Mus musculus RIKEN cDNA 2610318G18 gene (2610318G18Rik), mRNA [NM_NM_026013]		-1.70886
Dynein, cytoplasmic, light intermediate polypeptide 2	BC058645	-1.1184
Mus musculus RIKEN cDNA B230113M03 gene (B230113M03Rik), mRNA [NM_NM_173755]		1.10366
Mus musculus thymus cell antigen 1, theta (Thy1), mRNA [NM_009382]	NM_009382	1.17031
Mus musculus RIKEN cDNA 2610024N01 gene (2610024N01Rik), mRNA [NM_NM_027931]		-1.01607
Mus musculus CUB and zona pellucida-like domains 1 (Cuzd1), mRNA [NM_00 NM_008411]		-1.03891
Bromodomain containing 8	AK030167	1.08264
Mus musculus histone deacetylase 5 (Hdac5), mRNA [NM_010412]	NM_010412	1.03488
Mus musculus protein tyrosine phosphatase, non-receptor type 21 (Ptpn21), mF	NM_011877	1.10422
Mus musculus olfactory receptor 1225 (Olf1225), mRNA [NM_146891]	NM_146891	1.06626
Mus musculus endothelial differentiation, lysophosphatidic acid G-protein-coupl	NM_022983	-1.21187
RIKEN cDNA A530041M06 gene	AK015736	-1.10957
Mus musculus hairy and enhancer of split 1 (Drosophila) (Hes1), mRNA [NM_0(NM_008235]		1.06005
Mus musculus cysteine dioxygenase 1, cytosolic (Cdo1), mRNA [NM_033037]	NM_033037	-1.36197
RIKEN cDNA 2310021P13 gene	AK029263	1.07141
Mus musculus acyl-Coenzyme A dehydrogenase family, member 8 (Acad8), mF	NM_025862	-1.07083
Mus musculus expressed sequence AI314976 (AI314976), mRNA [NM_207219]	NM_207219	-1.32787
Mus musculus vomeronasal 1 receptor, C18 (V1rc18), mRNA [NM_134173]	NM_134173	1.15498
SEH1-like (S. cerevisiae)	BC027244	-1.21596
Mus musculus mannose receptor, C type 2 (Mrc2), mRNA [NM_008626]	NM_008626	1.2849
Mus musculus LIM domain only 4 (Lmo4), mRNA [NM_010723]	NM_010723	-1.27024
Mus musculus small nuclear RNA activating complex, polypeptide 5 (Snapc5), n	NM_183316	-1.28025
Mus musculus glucokinase (Gck), mRNA [NM_010292]	NM_010292	1.03368
Histidine triad nucleotide binding protein 2	AK004497	-1.2551
AB064668 OK/SW-CL.87 {Homo sapiens}, partial (60%) [TC1033342]		-1.04563
Mus musculus interleukin 1 receptor accessory protein-like 2 (Il1rapl2), mRNA [I	NM_030688	1.12815
Mus musculus PDZ domain containing 1 (Pdzk1), mRNA [NM_021517]	NM_021517	-1.00194
RIKEN cDNA 4833424O15 gene	AK032034	1.04008
Mus musculus 0 day neonate cerebellum cDNA, RIKEN full-length enriched libr	AK082134	-1.00898
Urocanase domain containing 1	NM_144940	1.0645
Mus musculus fibroblast growth factor receptor-like 1 (Fgfr1), mRNA [NM_0540	NM_054071	1.14308
Mus musculus preferentially expressed antigen in melanoma-like 1 (Prmel1), n	NM_031377	1.12831
Mus musculus RIKEN cDNA 6530401C20 gene (6530401C20Rik), mRNA [NM_NM_173405]		1.01655
Jerky homolog-like (mouse)	AK079877	-1.08564
hypothetical protein 4930481M05	NM_183320	-1.00269
Mus musculus ARP2 actin-related protein 2 homolog (yeast) (Actr2), mRNA [NM	NM_146243	-2.05954
Mus musculus Ras homolog enriched in brain like 1 (Rheb1), mRNA [NM_0269	NM_026967	1.04883
Ankyrin repeat domain 6	NM_080471	1.07365
Mus musculus esterase 1 (Es1), mRNA [NM_007954]	NM_007954	1.05871
BTB (POZ) domain containing 7	AK033160	1
Mus musculus chondroitin sulfate proteoglycan 6 (Cspg6), mRNA [NM_007790]	NM_007790	-1.03386
Mus musculus ATP citrate lyase (Acl), mRNA [NM_134037]	NM_134037	1.00019
RIKEN cDNA 2900024O10 gene	AK046032	1.02662
Mus musculus RIKEN cDNA 2310061O04 gene (2310061O04Rik), mRNA [NM_NM_027156]		1.03884
Bri3 binding protein	AK043288	-1.03052

Mus musculus basic leucine zipper and W2 domains 1 (Bzw1), mRNA [NM_025	NM_025824	-1.32117
Expressed sequence AI448196	BC025879	-1.67179
Mus musculus MAS-related GPR, member F (Mrgprf), mRNA [NM_145379]	NM_145379	1.00319
Gene model 1369, (NCBI)	AK085913	-1.01127
Mus musculus olfactory receptor 361 (Olfr361), mRNA [NM_146368]	NM_146368	1.05941
Mus musculus signal-induced proliferation-associated 1 like 1 (Sipa111), mRNA	NM_172579	1.05376
Mus musculus RIKEN cDNA 2610200G18 gene (2610200G18Rik), mRNA [NM_	NM_025998	-1.03534
Mus musculus nuclear receptor subfamily 4, group A, member 3 (Nr4a3), mRNA	NM_015743	1.02997
Mus musculus protein tyrosine kinase 9-like (A6-related protein) (Ptk9l), mRNA	NM_011876	1.04753
Mus musculus phosphate cytidyltransferase 1, choline, alpha isoform (Pcyt1a)	NM_009981	1.00056
Mus musculus olfactory receptor 342 (Olfr342), mRNA [NM_146948]	NM_146948	1.04425
Mus musculus zinc finger protein 336 (Zfp336), mRNA [NM_028986]	NM_028986	-1.09106
Mus musculus arylacetamide deacetylase (esterase) (Aadac), mRNA [NM_0233	NM_023383	-1.0486
Mus musculus polymerase (DNA directed), epsilon (Pole), mRNA [NM_011132]	NM_011132	1.05602
Solute carrier family 9 (sodium/hydrogen exchanger), member 3	AK033564	-1.25538
Positive cofactor 2, multiprotein complex, glutamine/Q-rich-associated protein	NM_033609	1.06139
Mus musculus complement component factor h (Cfh), mRNA [NM_009888]	NM_009888	-1.60345
Mucin 2	AK008250	1.08561
Coiled-coil domain containing 3	BC058616	1.15032
Mus musculus RIKEN cDNA 1110007C05 gene (1110007C05Rik), mRNA [NM_	NM_025368	1.11296
Mus musculus RIKEN cDNA 5730403M16 gene (5730403M16Rik), mRNA [NM_	NM_172738	-1.03383
Mus musculus ribonuclease P/MRP 30kDa subunit (human) (Rpp30), mRNA [NI	NM_019428	-1.29818
Mus musculus branched chain aminotransferase 1, cytosolic (Bcat1), mRNA [NI	NM_007532	-1.12464
Mus musculus ubiquitin specific protease 12 (Usp12), mRNA [NM_011669]	NM_011669	-1.06173
Mus musculus olfactory receptor 1006 (Olfr1006), mRNA [NM_146570]	NM_146570	1.02249
Mus musculus F-box only protein 12 (Fbxo12), mRNA [NM_015793]	NM_015793	1.08022
Mus musculus RIKEN cDNA 2310044D20 gene (2310044D20Rik), mRNA [NM_	NM_026321	-1.53225
Mus musculus bisphosphate 3'-nucleotidase 1 (Bpnt1), mRNA [NM_011794]	NM_011794	-1.1353
Mus musculus RIKEN cDNA 9130213B05 gene (9130213B05Rik), mRNA [NM_	NM_145562	1.08454
Mus musculus Vav2 oncogene (Vav2), mRNA [NM_009500]	NM_009500	1.00578
Mus musculus DNA segment, Chr 14, ERATO Doi 231, expressed (D14Ert231	NM_153414	1.02088
Mus musculus Rho guanine nucleotide exchange factor (GEF7) (Arhgef7), mRN	NM_017402	1.13068
Mus musculus transforming, acidic coiled-coil containing protein 3 (Tacc3), mRN	NM_011524	-1.20256
Mus musculus glutamate dehydrogenase (Glud), mRNA [NM_008133]	NM_008133	-1.26795
Neuron navigator 3	AK029036	1.00571
Coiled-coil domain containing 11	AK016821	1.10786
Luteinizing hormone/choriogonadotropin receptor	AK054542	1.02245
Mus musculus crystallin, beta B1 (Crybb1), mRNA [NM_023695]	NM_023695	-1.05423
Mus musculus lamin A (Lmna), transcript variant 2, mRNA [NM_019390]	NM_019390	1.40146
Mus musculus legumain (Lgmn), mRNA [NM_011175]	NM_011175	1.04459
Mus musculus RIKEN cDNA A130038L21 gene (A130038L21Rik), mRNA [NM_	NM_172588	-1.35817
RIKEN cDNA 9230116L04 gene	AK033827	1.09619
Mus musculus osteomodulin (Omd), mRNA [NM_012050]	NM_012050	-1.21278
Mus musculus neurogenin 3 (Neurog3), mRNA [NM_009719]	NM_009719	1.05193
RIKEN cDNA 9130227C08 gene	AK049709	-1.0455
Mus musculus plexin A2 (Plxna2), mRNA [NM_008882]	NM_008882	1.0343
Protein phosphatase 1B, magnesium dependent, beta isoform	AJ271833	-1.08796
Mus musculus RIKEN cDNA 2310061B02 gene (2310061B02Rik), mRNA [NM_	NM_027154	1.04222
Mus musculus cytochrome c, testis (Cyct), mRNA [NM_009989]	NM_009989	-1.00672
Mus musculus guanylate nucleotide binding protein 3 (Gbp3), mRNA [NM_0187	NM_018734	-1.59182
Mus musculus SH3-domain binding protein 1 (Sh3bp1), mRNA [NM_009164]	NM_009164	-1.03497
Per1-like domain containing 1	BC030368	1.01621

N-acetylglucosamine-1-phosphotransferase, gamma subunit	AK078230	-1.25535
RIKEN cDNA 4933436C20 gene	AK017076	-1.03119
hypothetical protein D030034H08	NM_00100130	1.32031
Mus musculus apolipoprotein A-I (Apoa1), mRNA [NM_009692]	NM_009692	-1.04495
Mus musculus ataxia, cerebellar, Cayman type homolog (human) (Atcay), mRNA [NM_178662]	NM_178662	-1.23068
Mus musculus GA repeat binding protein, alpha (Gabpa), mRNA [NM_008065]	NM_008065	-1.18705
Mus musculus olfactory receptor 629 (Olfr629), mRNA [NM_146821]	NM_146821	-1.02913
RIKEN cDNA 5530400B04 gene	AK017420	-1.10335
COMM domain containing 7	AK078774	-1.09229
Hydrocephalus inducing	AK043971	1.05679
RIKEN cDNA G630064H08 gene	BC066016	-1.12704
Mus musculus RIKEN cDNA 2810484M10 gene (2810484M10Rik), mRNA [NM_133684]	NM_133684	-1.01138
UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 1	NM_020283	1.00444
Mus musculus expressed sequence AW060207 (AW060207), mRNA [NM_144911]	NM_144911	-1.09388
Mus musculus expressed sequence AI449441 (AI449441), mRNA [NM_172453]	NM_172453	1.05582
Mus musculus RIKEN cDNA 2900026H06 gene (2900026H06Rik), mRNA [NM_028392]	NM_028392	-1.00376
MRNA similar to ribosomal protein S20 (cDNA clone MGC:6876 IMAGE:265140 BC011413)		-1.03
Mus musculus RIKEN cDNA 9130231C15 gene (9130231C15Rik), mRNA [NM_133960]	NM_133960	1.04592
Mus musculus EGL nine homolog 2 (C. elegans) (Egln2), mRNA [NM_053208]	NM_053208	1.29607
Mus musculus zinc finger protein 143 (Zfp143), mRNA [NM_009281]	NM_009281	-1.25867
Mus musculus RIKEN cDNA 1700012F17 gene (1700012F17Rik), mRNA [NM_026645]	NM_026645	-1.00991
Mus musculus G-protein signalling modulator 3 (AGS3-like, C. elegans) (Gpsm3), mRNA [NM_134116]	NM_134116	1.02938
Mus musculus RIKEN cDNA 6720463E02 gene (6720463E02Rik), mRNA [NM_026556]	NM_026556	-1.81045
Mus musculus dopamine beta hydroxylase (Dbh), mRNA [NM_138942]	NM_138942	1.15224
Immunoglobulin superfamily, member 4	AK016780	1.13841
Mus musculus phospholipase A2, activating protein (Plaa), mRNA [NM_172695]	NM_172695	-1.2148
Mus musculus CDC42 small effector 1 (Cdc42se1), mRNA [NM_172395]	NM_172395	1.01963
Mus musculus disabled homolog 1 (Drosophila) (Dab1), mRNA [NM_010014]	NM_010014	-1.07657
Mus musculus vomeronasal 1 receptor, C1 (V1rc1), mRNA [NM_053231]	NM_053231	1.10587
Mus musculus hepatocyte growth factor (Hgf), mRNA [NM_010427]	NM_010427	-1.21698
Mus musculus succinate dehydrogenase complex, subunit C, integral membrane protein	NM_025321	1.02251
Mus musculus RIKEN cDNA 4432405B04 gene (4432405B04Rik), mRNA [NM_026486]	NM_026486	-1.09323
Mus musculus argininosuccinate lyase (Asl), mRNA [NM_133768]	NM_133768	1.07009
Mus musculus olfactory receptor 954 (Olfr954), mRNA [NM_146331]	NM_146331	1.04196
A39816 tropomyosin 2, fibroblast - rat, partial (56%) [TC955592]		-1.11881
Mus musculus nuclear transport factor 2 (Nutf2), mRNA [NM_026532]	NM_026532	-1.20724
RIKEN cDNA 5730596K20 gene	AK014617	1.02485
Mus musculus tripartite motif protein 47 (Trim47), mRNA [NM_172570]	NM_172570	1.18203
A disintegrin and metalloprotease domain 22	AB009674	-1.09643
Mus musculus damage specific DNA binding protein 1 (Ddb1), mRNA [NM_015735]	NM_015735	1.1229
RIKEN cDNA 1700056E22 gene	AK006811	1.28974
Mus musculus coenzyme Q3 homolog, methyltransferase (yeast) (Coq3), mRNA [NM_172687]	NM_172687	-1.42611
Mus musculus zinc finger protein 61 (Zfp61), mRNA [NM_009561]	NM_009561	1.16973
Mus musculus thymoma viral proto-oncogene 2 (Akt2), mRNA [NM_007434]	NM_007434	1.04181
Mus musculus quiescin Q6 (Qscn6), mRNA [NM_023268]	NM_023268	1.06287
Mus musculus B-cell CLL/lymphoma 7A (Bcl7a), mRNA [NM_029850]	NM_029850	-1.01091
Mus musculus oncostatin M receptor (Osmr), mRNA [NM_011019]	NM_011019	-1.39322
RIKEN cDNA 2310015A05 gene	AK009347	1.13178
Golgi-specific brefeldin A-resistance factor 1	BC059883	1.12379
Mus musculus fatty acid binding protein 2, intestinal (Fabp2), mRNA [NM_007980]	NM_007980	1.09705
Kinetochore associated 1	AK084529	-1.10389
Mus musculus RIKEN cDNA 4933429I20 gene (4933429I20Rik), mRNA [NM_172875]	NM_172875	1.1548

Mus musculus olfactory receptor 678 (Olf678), mRNA [NM_146758]	NM_146758	1.36998
Mus musculus open reading frame 5 (ORF5), mRNA [NM_016924]	NM_016924	1.07673
Mus musculus early growth response 3 (Egr3), mRNA [NM_018781]	NM_018781	1.09426
Mus musculus DNA segment, Chr 10, ERATO Doi 214, expressed (D10Ert214)	NM_134007	-1.45194
Mus musculus RIKEN cDNA 4632404H12 gene (4632404H12Rik), mRNA [NM_028726]	NM_028726	-1.04634
RIKEN cDNA 0610030E20 gene	AK013079	1.27453
Mus musculus 9.5 days embryo parthenogenote cDNA, RIKEN full-length enriched	AK044865	1.15676
Mus musculus solute carrier family 39 (metal ion transporter), member 8 (Slc39a8)	NM_026228	-1.13741
Mus musculus mitochondrial ribosomal protein L40 (Mrpl40), mRNA [NM_010922]	NM_010922	-1.12904
Mus musculus RIKEN cDNA 6330577E15 gene (6330577E15Rik), mRNA [NM_026377]	NM_026377	-1.92581
Mus musculus PHD finger protein 5A (Phf5a), mRNA [NM_026737]	NM_026737	-1.00693
Mus musculus acetyl-Coenzyme A acetyltransferase 1 (Acat1), mRNA [NM_144784]	NM_144784	-1.24909
Mus musculus SMC (structural maintenance of chromosomes 1)-like 2 (S. cerevisiae)	NM_080470	-1.08575
Mus musculus RIKEN cDNA 4921521F21 gene (4921521F21Rik), mRNA [NM_027582]	NM_027582	1.12511
Mus musculus plexin domain containing 2 (Plxdc2), mRNA [NM_026162]	NM_026162	-1.23203
melanocyte proliferating gene 1	NM_021713	1.06345
Mus musculus RIKEN cDNA 1300010M03 gene (1300010M03Rik), mRNA [NM_026501]	NM_026501	-1.37272
RIKEN cDNA 4922502B01 gene	AK015021	1
Mus musculus gastric intrinsic factor (Gif), mRNA [NM_008118]	NM_008118	-1.07117
Mus musculus prepronociceptin (Pnoc), mRNA [NM_010932]	NM_010932	1.0546
Protein tyrosine phosphatase, receptor type, D	D13903	1.02229
Mus musculus distal-less homeobox 5 (Dlx5), transcript variant 1, mRNA [NM_010056]	NM_010056	1.15663
Mus musculus ATPase family, AAA domain containing 3A (Atad3a), mRNA [NM_179203]	NM_179203	1.1228
Mus musculus serine (or cysteine) proteinase inhibitor, clade B, member 9c (SerpinB9c)	NM_011453	-1.04637
similar to hypothetical protein FLJ20010	BC011344	-1.02889
RIKEN cDNA 4921528O07 gene	AK019544	1
Mus musculus cDNA sequence BC030476 (BC030476), mRNA [NM_173421]	NM_173421	1.03452
RIKEN cDNA 3830408P06 gene	BC005522	1.0662
Mus musculus allantoicase (Allc), mRNA [NM_053156]	NM_053156	1.07765
Mus musculus ets variant gene 3 (Etv3), mRNA [NM_012051]	NM_012051	1.07421
Mus musculus ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c	NM_175015	-1.20091
Carbonic anhydrase 8	AK004896	-1.26026
Mus musculus RIKEN cDNA 9030425E11 gene (9030425E11Rik), mRNA [NM_133733]	NM_133733	-1.09696
Transmembrane emp24 protein transport domain containing 5	AK087837	-1.21957
Mus musculus RIKEN cDNA 1700001F22 gene (1700001F22Rik), mRNA [NM_027036]	NM_027036	1.146
Mus musculus RIKEN cDNA 2610205H19 gene (2610205H19Rik), mRNA [NM_027430]	NM_027430	-1.4065
Mus musculus hypothetical protein A230106N14 (A230106N14), mRNA [XM_126847]	XM_126847	1.00192
Solute carrier family 6 (neurotransmitter transporter), member 19	AK014544	1.00652
RIKEN cDNA 4930469G21 gene	AK015528	-1.06703
Mus musculus attractin (Atrn), mRNA [NM_009730]	NM_009730	1.07504
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 5 (Ddx5), mRNA [NM_007840]	NM_007840	-1.66391
Mus musculus ATPase, H+ transporting, V0 subunit B (Atp6v0b), mRNA [NM_033617]	NM_033617	-1.02668
Mus musculus DNA segment, Chr 11, ERATO Doi 759, expressed (D11Ert759)	NM_172949	-1.4549
RIKEN cDNA 5530400K22 gene	AK017426	-1.40273
Mus musculus olfactory receptor 640 (Olf640), mRNA [NM_146822]	NM_146822	1.06198
Mus musculus SH3 domain protein 1B (Sh3d1B), mRNA [NM_011365]	NM_011365	1.09776
Expressed sequence AI597013	AK129468	1.01675
RIKEN cDNA 4930404H21 gene	AK015080	1.08735
Mus musculus RIKEN cDNA 6330416G13 gene (6330416G13Rik), mRNA [NM_144905]	NM_144905	-1.0987
Mus musculus ubiquitin specific protease 21 (Usp21), mRNA [NM_013919]	NM_013919	1.07811
Mus musculus sema domain, immunoglobulin domain (Ig), short basic domain, semaphorin 4D	NM_011348	-1.6075
arsenate resistance protein 2	NM_031405	1.01936

Mus musculus ephrin B2 (Efnb2), mRNA [NM_010111]	NM_010111	-1.04334
Oocyte secreted protein 1	NM_133353	1.06697
Mus musculus chromogranin B (Chgb), mRNA [NM_007694]	NM_007694	1.02435
Mus musculus basic leucine zipper and W2 domains 2 (Bzw2), mRNA [NM_025 NM_025840]	NM_025840	-1.02084
RIKEN cDNA 1190002A17 gene	AK004439	1.05925
RIKEN cDNA 1700113H08 gene	AK007195	1.00985
Mus musculus similar to immunoglobulin mu-chain (LOC193362), mRNA [XM_1 XM_110013]	XM_110013	1.06866
Mus musculus glycine receptor, beta subunit (Glrb), mRNA [NM_010298]	NM_010298	-1.03354
Mus musculus enhancer of polycomb homolog 1 (Drosophila) (Epc1), transcript	NM_007935	-1.1158
Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 9 (Dhx9), mRNA [NM_007842]	NM_007842	-1.41715
Mus musculus aspartyl aminopeptidase (Dnpep), mRNA [NM_016878]	NM_016878	-1.07524
Mus musculus homeo box A13 (Hoxa13), mRNA [NM_008264]	NM_008264	-1.16648
RIKEN cDNA B230209C24 gene	AK045534	1.04486
Mus musculus erythrocyte protein band 7.2 (Epb7.2), mRNA [NM_013515]	NM_013515	-1.00213
Mus musculus tumor necrosis factor receptor superfamily, member 17 (Tnfrsf17)	NM_011608	1.0003
Mus musculus alcohol dehydrogenase, iron containing, 1 (Adhfe1), mRNA [NM_175236]	NM_175236	1.01004
ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 6	NM_145838	-1.04056
Mus musculus DNA segment, Chr 4, Brigham & Women's Genetics 1540 expres	NM_026257	1.17889
Peptidyl-prolyl isomerase G (cyclophilin G)	AK045812	-1.0166
Mus musculus kinetochore associated 2 (Kntc2), mRNA [NM_023294]	NM_023294	-1.01428
Ubiquitin protein ligase E3 component n-recognin 2	AK083320	-1.02298
Mus musculus RIKEN cDNA D230039L06 gene (D230039L06Rik), mRNA [NM_177724]	NM_177724	1.06503
Mus musculus arginine vasopressin-induced 1 (Avpi1), mRNA [NM_027106]	NM_027106	-1.1936
Mus musculus quinolinate phosphoribosyltransferase (Qprt), mRNA [NM_133688]	NM_133688	1.00694
Mus musculus RIKEN cDNA 2510039O18 gene (2510039O18Rik), mRNA [NM_029841]	NM_029841	-1.1299
Mus musculus RIKEN cDNA 2610034E18 gene (2610034E18Rik), mRNA [NM_029797]	NM_029797	-1.47728
Mus musculus 5-hydroxytryptamine (serotonin) receptor 7 (Htr7), mRNA [NM_008315]	NM_008315	-1.13903
Mus musculus squalene epoxidase (Sqle), mRNA [NM_009270]	NM_009270	-1.01498
ST3 beta-galactoside alpha-2,3-sialyltransferase 5	NM_011375	-1.17624
Inositol 1,4,5-triphosphate receptor 2	Z71173	-1.15075
Mus musculus RIKEN cDNA 1810031K17 gene (1810031K17Rik), mRNA [NM_026977]	NM_026977	-1.00925
Gene model 566, (NCBI)	BC027668	-1.04016
Mus musculus tubulin-specific chaperone c (Tbcc), mRNA [NM_178385]	NM_178385	-1.02372
Mus musculus zinc finger protein 606 (Zfp606), mRNA [NM_026112]	NM_026112	-1.26958
Mus musculus thyroid hormone receptor beta (Thrb), mRNA [NM_009380]	NM_009380	-1.02707
Mus musculus peroxisome proliferative activated receptor, gamma, coactivator	NM_133249	1.13243
Mus musculus zinc finger protein 397 (Zfp397), mRNA [NM_027007]	NM_027007	1.01892
Mus musculus autoimmune regulator (autoimmune polyendocrinopathy candidie	NM_009646	-1.01449
Solute carrier family 2 (facilitated glucose transporter), member 9	NM_145559	-1.21465
Mus musculus EGF-like module containing, mucin-like, hormone receptor-like s	NM_010130	-1.17389
Mus musculus RIKEN cDNA 0610038D11 gene (0610038D11Rik), mRNA [NM_026306]	NM_026306	1.05091
Mus musculus a disintegrin and metalloproteinase domain 9 (meltrin gamma) (A	NM_007404	-1.46014
Activating transcription factor 2	BC042210	-1.21269
Mus musculus RIKEN cDNA 1700095F04 gene (1700095F04Rik), mRNA [NM_026104]	NM_026104	-1.02515
Mus musculus membrane-associated protein 17 (Map17), mRNA [NM_026018]	NM_026018	1.15572
Mus musculus olfactory receptor 617 (Olfr617), mRNA [NM_146841]	NM_146841	1.07852
Mus musculus papillary renal cell carcinoma (translocation-associated) (Prcc), n	NM_033573	1.03612
Mus musculus ras homolog gene family, member T1 (Rhot1), mRNA [NM_021536]	NM_021536	-1.02273
Mus musculus WD repeat and FYVE domain containing 3 (Wdfy3), mRNA [NM_172882]	NM_172882	1.17149
Mus musculus vomeronasal 1 receptor, A1 (V1ra1), mRNA [NM_011683]	NM_011683	1.00583
Mus musculus suppressor of variegation 4-20 homolog 1 (Drosophila) (Suv420h	NM_144871	-1.04621
Mus musculus procollagen, type IV, alpha 2 (Col4a2), mRNA [NM_009932]	NM_009932	1.22356

Mus musculus heat shock protein 105 (Hsp105), mRNA [NM_013559]	NM_013559	-1.26136
Mus musculus seminal vesicle antigen-like 2 (Sval2), mRNA [NM_032542]	NM_032542	1.14166
Mus musculus interleukin 10 receptor, alpha (Il10ra), mRNA [NM_008348]	NM_008348	1.10013
Mus musculus RIKEN cDNA 2610036N15 gene (2610036N15Rik), mRNA [NM_027257]	NM_027257	-1.07018
CDNA sequence U46068	NM_153418	1.02274
Mus musculus SH3-binding domain glutamic acid-rich protein (Sh3bgr), mRNA [NM_015825]	NM_015825	1.14074
Mus musculus crystallin, gamma S (Crygs), mRNA [NM_009967]	NM_009967	1.09177
Mus musculus haptoglobin (Hp), mRNA [NM_017370]	NM_017370	-1.09873
Mus musculus sterol carrier protein 2, liver (Scp2), mRNA [NM_011327]	NM_011327	-1.72664
Mus musculus olfactory receptor 415 (Olfr415), mRNA [NM_146714]	NM_146714	1.05801
OLFACTORY RECEPTOR GA_X6K02T2PBJ9-7810071-7809121. [Source:SPTREMBL;Acc:Q		-1.04896
Mus musculus nuclear receptor-binding SET-domain protein 1 (Nsd1), mRNA [NM_008739]	NM_008739	1.03742
Mus musculus RIKEN cDNA A430065P19 gene (A430065P19Rik), mRNA [NM_177376]	NM_177376	1.02455
RIKEN cDNA 4933424B01 gene	NM_138757	-1.29747
Mus musculus adult male thymus cDNA, RIKEN full-length enriched library, clone AK017915	AK017915	1.10633
PHD finger protein 8	AK079482	-1.08729
Mus musculus nephrosis 2 homolog, podocin (human) (Nphs2), mRNA [NM_131313]	NM_131313	1.01576
Mus musculus acyl-Coenzyme A dehydrogenase, very long chain (Acadvl), mRNA [NM_017366]	NM_017366	-1.0924
Mus musculus nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1 (NFATc1), mRNA [NM_016791]	NM_016791	1.1156
RIKEN cDNA A230052E19 gene	AK089150	1.08026
Mus musculus aspartoacylase (aminoacylase) 2 (Aspa), mRNA [NM_023113]	NM_023113	1.00074
Mus musculus RIKEN cDNA 2510005D08 gene (2510005D08Rik), mRNA [NM_026526]	NM_026526	-1.12153
PHD finger protein 20-like 1	AK047044	1.10399
Mus musculus expressed sequence AW049765 (AW049765), mRNA [NM_145934]	NM_145934	1.04515
Mus musculus dimethylarginine dimethylaminohydrolase 1 (Ddah1), mRNA [NM_026993]	NM_026993	1.21915
Mus musculus RIKEN cDNA 1700008P20 gene (1700008P20Rik), mRNA [NM_027028]	NM_027028	-1.12365
Tubulin, gamma complex associated protein 6	BC057626	1.12949
CUB and Sushi multiple domains 3	AK122567	1.03769
RIKEN cDNA 4933401F05 gene	AK016601	1.05006
Mus musculus integrin beta 3 (Itgb3), mRNA [NM_016780]	NM_016780	1.0547
E1A binding protein p400	AK030095	-1.03354
Mus musculus zinc finger protein 36, C3H type-like 2 (Zfp36l2), transcript variant 1 (Zfp36l2.1), mRNA [NM_00100180]	NM_00100180	1.15503
Mus musculus DNA segment, Chr 14, ERATO Doi 226, expressed (D14Ert226), mRNA [NM_145928]	NM_145928	-1.13178
Mus musculus component of oligomeric golgi complex 2 (Cog2), mRNA [NM_029746]	NM_029746	1.14251
Mus musculus retinoic acid induced 12 (Rai12), mRNA [NM_018740]	NM_018740	-1.22574
Cytochrome P450, family 2, subfamily c, polypeptide 44	NM_00100144	-1.20673
Mus musculus electron transferring flavoprotein, beta polypeptide (Etfb), mRNA [NM_026695]	NM_026695	-1.12907
Mus musculus hypothetical protein G630054C21 (G630054C21), mRNA [XM_129028]	XM_129028	-1.02717
Mus musculus enabled homolog (Drosophila) (Enah), mRNA [NM_010135]	NM_010135	-1.0398
Mus musculus cyclin I (Ccni), mRNA [NM_017367]	NM_017367	1.20496
Brain CRL-1443 BC3H1 cDNA, RIKEN full-length enriched library, clone:G4300 (G4300), mRNA [AK090072]	AK090072	1.06765
Mus musculus RIKEN cDNA 2410075D05 gene (2410075D05Rik), mRNA [NM_028604]	NM_028604	-1.18035
Mus musculus tripartite motif protein 25 (Trim25), mRNA [NM_009546]	NM_009546	-1.00156
Mus musculus zinc finger protein 101 (Zfp101), mRNA [NM_009542]	NM_009542	-1.06807
16 days neonate heart cDNA, RIKEN full-length enriched library, clone:D830015 (D830015), mRNA [AK052874]	AK052874	-1.01925
RIKEN cDNA 1110003A17 gene	AK003337	1.05918
Mus musculus RIKEN cDNA 1300007L22 gene (1300007L22Rik), mRNA [NM_027917]	NM_027917	1.00575
BC024623 non-canonical ubiquitin conjugating enzyme 1 {Mus musculus}, complete [TC95638]		-1.14083
Mus musculus Tnf receptor associated factor 4 (Traf4), mRNA [NM_009423]	NM_009423	-1.14726
Dedicator of cyto-kinesis 1	BC058998	-1.20923
RIKEN cDNA C630028N24 gene	AK083218	1.07919
Mus musculus NAD(P)H dehydrogenase, quinone 1 (Nqo1), mRNA [NM_008700]	NM_008700	-1.02817

Mus musculus ADP-ribosylation factor-like 6 interacting protein 5 (Arl6ip5), mRNA [NM_022992]		-1.41744
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 20 (Ddx20), mRNA [NM_017397]		-1.21567
Fas apoptotic inhibitory molecule 3	AK007714	1.00155
Mus musculus membrane associated guanylate kinase interacting protein-like 1	NM_172546	-1.13277
FLYWCH-type zinc finger 1	BC025645	1.09464
Unknown		-1.08147
Mus musculus phosphorylase kinase, gamma 2 (testis) (Phkg2), mRNA [NM_022688]	NM_026888	1.0825
Mus musculus RIO kinase 1 (yeast) (Riok1), mRNA [NM_024242]	NM_024242	1.13798
RIKEN cDNA 2010110P09 gene	AK008392	1.28863
ATP-binding cassette, sub-family B (MDR/TAP), member 8	AK014688	1
RIKEN cDNA C330002I19 gene	AK083260	-1.04271
Mus musculus apolipoprotein A-V (Apoa5), mRNA [NM_080434]	NM_080434	1.03891
RIKEN cDNA 9130416N05 gene	AK018681	-1.13583
Mus musculus interferon activated gene 203 (Ifi203), mRNA [NM_008328]	NM_008328	-1.12409
Mus musculus ATP-binding cassette transporter sub-family A member 9 (Abca9)	NM_147220	1.03038
Membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7)	W29301	-1.22715
Mus musculus pleckstrin homology domain containing, family C (with FERM domain)	NM_146054	-1.22805
Mus musculus 3-phosphoglycerate dehydrogenase (Phgdh), mRNA [NM_016966]	NM_016966	-1.01202
Mus musculus RIKEN cDNA 9230117E20 gene (9230117E20Rik), mRNA [NM_030061]	NM_030061	-1.12882
Mus musculus procollagen, type XI, alpha 1 (Col11a1), mRNA [NM_007729]	NM_007729	1.06365
Mus musculus homeo box C13 (Hoxc13), mRNA [NM_010464]	NM_010464	1.04101
hypothetical protein C630025L14	AK083196	-1.05004
Mus musculus olfactory receptor 1269 (Olfr1269), mRNA [NM_146342]	NM_146342	1.09137
Mus musculus ornithine decarboxylase antizyme inhibitor (Oazin), mRNA [NM_018745]	NM_018745	1.04371
Mus musculus solute carrier family 35, member E3 (Slc35e3), mRNA [NM_029875]	NM_029875	-1.27908
Mus musculus expressed sequence AW260467 (AW260467), mRNA [NM_178683]	NM_178683	1.08707
PR domain containing 15	AK053449	-1.04036
Mus musculus olfactory receptor 1189 (Olfr1189), mRNA [NM_146772]	NM_146772	1.11916
Mus musculus olfactory receptor 1336 (Olfr1336), mRNA [NM_146915]	NM_146915	-1.20794
RIKEN cDNA 1700084C06 gene	AK006986	1.11275
Mus musculus olfactory receptor 429 (Olfr429), mRNA [NM_146722]	NM_146722	1.04117
Mus musculus potassium voltage-gated channel, Isk-related subfamily, gene 4 (Kv4.3)	NM_021342	-1.18165
Mus musculus arachidonate lipoxygenase, epidermal (Alox12e), mRNA [NM_145684]	NM_145684	1.03703
Mus musculus RIKEN cDNA 1700028P14 gene (1700028P14Rik), mRNA [NM_026188]	NM_026188	-1.08319
Mus musculus stathmin-like 3 (Stmn3), mRNA [NM_009133]	NM_009133	1.18281
Mus musculus cyclin M1 (Cnnm1), mRNA [NM_031396]	NM_031396	1.10472
Mus musculus integrin alpha V (Itgav), mRNA [NM_008402]	NM_008402	-1.07434
RIKEN cDNA C530008M17 gene	AK049629	1.00224
Mus musculus aquaporin 9 (Aqp9), mRNA [NM_022026]	NM_022026	1.01133
RIKEN cDNA 1810027O10 gene	AK014035	1.02083
C-type lectin domain family 4, member a2	NM_011999	-1.13758
Mus musculus guanylate cyclase activator 2 (guanylin 2, intestinal, heatstable) (Guca2)	NM_008190	1.02383
Mus musculus S100 calcium binding protein A11 (calizzarin) (S100a11), mRNA [NM_016740]	NM_016740	-1.2463
Mus musculus olfactory receptor 893 (Olfr893), mRNA [NM_146336]	NM_146336	-1.01115
Mus musculus myocyte enhancer factor 2C (Mef2c), mRNA [NM_025282]	NM_025282	1.18895
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK016576	AK016576	1.07086
DNA segment, Chr 11, ERATO Doi 736, expressed	AK009375	-1.1683
Mus musculus WD repeat domain 1 (Wdr1), mRNA [NM_011715]	NM_011715	-1.22532
RIKEN cDNA 5730559C18 gene	AK006603	1.0394
RIKEN cDNA 9230116B18 gene	AK020348	-1.06584
RIKEN cDNA 4931432M23 gene	AK016501	1.34201
Mus musculus nuclear distribution gene E-like homolog 1 (A. nidulans) (Ndel1), mRNA [NM_023668]	NM_023668	-1.32144

Mus musculus eukaryotic translation initiation factor 2 alpha kinase 1 (Eif2ak1), RIKEN cDNA 4930425F17 gene	NM_013557	-1.02353
RIKEN cDNA 5430405H02 gene	AK019583	1.03926
Mus musculus olfactory receptor 983 (Olf983), mRNA [NM_146827]	AK017271	1.05205
Mus musculus O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-ace	NM_146827	-1.09407
Mus musculus ADP-ribosyltransferase (NAD+, poly(ADP-ribose) polymerase)-lik	NM_139144	-1.88976
Mus musculus lecithin-retinol acyltransferase (phosphatidylcholine-retinol-O-acy	NM_009632	1.12443
Mus musculus splicing factor 3b, subunit 4 (Sf3b4), mRNA [NM_153053]	NM_023624	1.15956
Mus musculus RIKEN cDNA 2600016B03 gene (2600016B03Rik), mRNA [NM_	NM_153053	-1.08543
Similar to glyceraldehyde-3-phosphate dehydrogenase (phosphorylating) (EC 1	NM_026453	-1.2594
Mus musculus olfactory receptor 1018 (Olf1018), mRNA [NM_146586]	AK081273	1.30231
Mus musculus actin-like 7b (Actl7b), mRNA [NM_025271]	NM_146586	1.05536
liver-specific bHLH-Zip transcription factor	NM_025271	1.009
Titin	NM_017405	1.00862
Mus musculus transforming growth factor, beta receptor I (Tgfb1), mRNA [NM_	AK047868	-1.01643
Mus musculus eukaryotic translation initiation factor 4E binding protein 3 (Eif4e	NM_009370	-1.12039
RIKEN cDNA 6530406P05 gene	NM_201256	1.01729
Mus musculus otoancorin (Otoa), mRNA [NM_139310]	AK018327	1.13466
Mus musculus fascin homolog 2, actin-bundling protein, retinal (Strongylocentro	NM_139310	-1.01414
RIKEN cDNA 4933439C10 gene	NM_172802	1.07701
Mus musculus RIKEN cDNA 1700029I08 gene (1700029I08Rik), mRNA [NM_1	AK017115	-1.03645
Zinc finger, DHHC domain containing 2	NM_183282	1.12871
Mus musculus 12 days embryo eyeball cDNA, RIKEN full-length enriched library	AK046533	-1.08966
PLYA_MYCPO Pectin lyase precursor. [Pea foot rot fungus] {Mycosphaerella pinodes}, partial	AK084367	1.07877
Mus musculus cholinergic receptor, nicotinic, delta polypeptide (Chrnd), mRNA [		-1.3541
Mus musculus heat shock factor binding protein 1 (Hsbp1), mRNA [NM_024219	NM_021600	1.2149
Mus musculus frequenin homolog (Drosophila) (Freq), mRNA [NM_019681]	NM_024219	-1.50308
Mus musculus regulator of G-protein signaling 19 (Rgs19), mRNA [NM_026446]	NM_019681	1.03638
Mus musculus cDNA sequence BC004701 (BC004701), mRNA [NM_146235]	NM_026446	1.1226
Mus musculus 2 days pregnant adult female ovary cDNA, RIKEN full-length enri	NM_146235	-1.0588
Mus musculus amino adipate-semialdehyde synthase (Aass), mRNA [NM_01393	AK087721	-1.00769
Mus musculus splicing factor 3b, subunit 2 (Sf3b2), mRNA [NM_030109]	NM_01393	1.07596
Mus musculus hemolytic complement (Hc), mRNA [NM_010406]	NM_030109	1.28187
Mus musculus ubiquitin-conjugating enzyme E2B, RAD6 homology (S. cerevisia	NM_010406	-1.10219
Dedicator of cytokinesis 8	NM_009458	-1.68515
Mus musculus peroxiredoxin 5 (Prdx5), mRNA [NM_012021]	BC055295	-1.01858
Mus musculus ATPase, Na+/K+ transporting, beta 3 polypeptide (Atp1b3), mRN	NM_012021	-1.11603
RIKEN cDNA 1110036O03 gene	NM_007502	-1.65824
Mus musculus unc-5 homolog B (C. elegans) (Unc5b), mRNA [NM_029770]	AK029271	-1.10952
Mus musculus ubiquitin-conjugating enzyme E2B, RAD6 homology (S. cerevisia	NM_029770	1.06658
Mus musculus G protein-coupled receptor 85 (Gpr85), mRNA [NM_145066]	NM_009458	-1.81158
CD47 antigen (Rh-related antigen, integrin-associated signal transducer)	NM_145066	1.15782
Mus musculus membrane-spanning 4-domains, subfamily A, member 4D (Ms4a	AK021021	1.11443
Mus musculus similar to Ig lambda-2 chain C region - mouse (fragment) (LOC3	NM_025658	-1.51078
Mus musculus olfactory receptor 799 (Olf799), mRNA [NM_146927]	NM_359369	-1.17979
Mus musculus glutathione S-transferase omega 1 (Gsto1), mRNA [NM_010362]	NM_146927	-1.04458
Mus musculus RIKEN cDNA 2810021J22 gene (2810021J22Rik), mRNA [NM_1	NM_010362	-1.05782
Mus musculus myozenin 3 (Myoz3), mRNA [NM_133363]	NM_172403	-1.0463
membrane interacting protein of RGS16	NM_133363	1.00769
RIKEN cDNA 5830482F20 gene	NM_019580	1.00339
Mus musculus granzyme M (lymphocyte met-ase 1) (Gzmm), mRNA [NM_0085	AK020687	-1.19443
Mus musculus cDNA sequence BC059177 (BC059177), mRNA [NM_198248]	NM_008504	1.05759
	NM_198248	-1.05494

Mus musculus 13 days embryo liver cDNA, RIKEN full-length enriched library, c	AK011092	-1.07838
Mus musculus phosphodiesterase 4B, cAMP specific (Pde4b), mRNA [NM_019840]	NM_019840	1.34056
Mus musculus syntaxin 5A (Stx5a), mRNA [NM_019829]	NM_019829	1.10143
RIKEN cDNA 2010001P20 gene	AK008024	1.07427
Mus musculus olfactory receptor 1184 (Olfr1184), mRNA [NM_146823]	NM_146823	1.01467
Interferon induced transmembrane protein 6	AY247203	1.00427
gamma-aminobutyric acid (GABA-B) receptor binding protein	NM_178394	-1.10115
Metaxin 3	AK085036	-1.48243
Mus musculus BMP2 inducible kinase (Bmp2k), mRNA [NM_080708]	NM_080708	1.23248
Mus musculus mannose binding lectin, liver (A) (Mbl1), mRNA [NM_010775]	NM_010775	-1.0885
Neuron navigator 1	AK082667	1.0604
Mus musculus fusion, derived from t(12;16) malignant liposarcoma (human) (Fu)	NM_139149	-1.60964
Mus musculus succinate-CoA ligase, GDP-forming, alpha subunit (Suc1g1), mRNA [NM_019879]	NM_019879	-1.5336
Pygopus 1	AK011208	-1.04991
Mus musculus RIKEN cDNA 2310030G06 gene (2310030G06Rik), mRNA [NM_025865]	NM_025865	-1.17146
Mus musculus CD84 antigen (Cd84), mRNA [NM_013489]	NM_013489	-1.14783
Mus musculus RIKEN cDNA 2210023C10 gene (2210023C10Rik), mRNA [NM_198246]	NM_198246	-1.21211
Mus musculus aldehyde dehydrogenase 4 family, member A1 (Aldh4a1), mRNA [NM_175438]	NM_175438	-1.01508
Mus musculus nucleoporin 155 (Nup155), mRNA [NM_133227]	NM_133227	-1.11085
Mus musculus serine hydroxymethyl transferase 2 (mitochondrial) (Shmt2), mRNA [NM_028230]	NM_028230	1.13888
RIKEN cDNA 9330161L09 gene	AK020378	1.01163
Mus musculus guanine nucleotide binding protein (G protein), gamma 8 subunit	NM_010320	1.14485
Mus musculus G protein-coupled receptor 37 (Gpr37), mRNA [NM_010338]	NM_010338	1
RIKEN cDNA 4930504H06 gene	AK015697	-1.15175
Mus musculus hypothetical protein, clone 2-24 (AB030190), mRNA [NM_022422]	NM_022422	-1.12147
Ganglioside-induced differentiation-associated-protein 9	AK007760	1.0222
Procollagen (type III) N-endopeptidase	BC036138	-1.01851
Arginine vasopressin receptor 1B	NM_011924	1.02285
Expressed sequence AI661311	AK129167	1.00587
Mus musculus solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter)	NM_009199	1.03328
Mus musculus RIKEN cDNA 0610012D09 gene (0610012D09Rik), mRNA [NM_021554]	NM_021554	-1.23775
Immunoglobulin heavy chain 6 (heavy chain of IgM)	AB017433	1.10496
Mus musculus RIKEN cDNA 1110034O07 gene (1110034O07Rik), mRNA [NM_153194]	NM_153194	-1.44147
Mus musculus RIKEN cDNA 1700031F13 gene (1700031F13Rik), mRNA [NM_183096]	NM_183096	1.04588
RIKEN cDNA 0610040D20 gene	NM_023153	-1.10253
Mus musculus fukutin related protein (Fkrp), mRNA [NM_173430]	NM_173430	1.04058
Dedicator of cytokinesis 9	AK122431	-1.32864
Mus musculus synapsin III (Syn3), mRNA [NM_013722]	NM_013722	1.10334
Myosin, heavy polypeptide 9, non-muscle	NM_022410	-1.03763
Mus musculus RIKEN cDNA 2310046K10 gene (2310046K10Rik), transcript variant 1	NM_029495	1.0177
Mus musculus RIKEN cDNA B930011H20 gene (B930011H20Rik), mRNA [NM_178782]	NM_178782	1.08041
Mus musculus RIKEN cDNA C130068N17 gene (C130068N17Rik), mRNA [NM_177784]	NM_177784	-1.02505
Mus musculus forkhead box H1 (Foxh1), mRNA [NM_007989]	NM_007989	1.25189
Mus musculus RIKEN cDNA 4930504E06 gene (4930504E06Rik), mRNA [NM_133858]	NM_133858	1.06083
Gene model 631, (NCBI)	AK040670	1.08003
Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 5 (Arabidopsis thaliana)	NM_013715	-1.61808
Mus musculus olfactory receptor 139 (Olfr139), mRNA [NM_147003]	NM_147003	1.07744
Mus musculus Fms interacting protein (Fmip), mRNA [NM_172438]	NM_172438	1.12362
Mus musculus guanylate kinase 1 (Guk1), mRNA [NM_008193]	NM_008193	-1.21182
Mus musculus uveal autoantigen with coiled-coil domains and ankyrin repeats (Iuava)	NM_028283	-1.23774
Mus musculus myeloproliferative leukemia virus oncogene (Mpl), mRNA [NM_010823]	NM_010823	-1.0269
Activating signal cointegrator 1 complex subunit 3	AK052745	-1.16694

RIKEN cDNA D930046L20 gene	AK048388	1.0589
Mus musculus arginyl aminopeptidase (aminopeptidase B)-like 1 (Rnpepl1), mRNA [NM_181405]	NM_181405	-1.06916
Mus musculus zinc finger protein 64 (Zfp64), mRNA [NM_009564]	NM_009564	-1.18114
Mus musculus olfactory receptor 330 (Olfr330), mRNA [NM_146879]	NM_146879	-1.01838
Mus musculus immunoglobulin superfamily containing leucine-rich repeat (Islr), mRNA [NM_012043]	NM_012043	-1.00884
Mus musculus intestinal cell kinase (Ick), mRNA [NM_019987]	NM_019987	1.22494
Mus musculus zinc finger protein 235 (Zfp235), mRNA [NM_019941]	NM_019941	1.1421
Mus musculus chemokine (C-C motif) ligand 3 (Ccl3), mRNA [NM_011337]	NM_011337	-1.1739
Mus musculus cDNA sequence BC052066 (BC052066), mRNA [NM_172761]	NM_172761	1.05361
Mus musculus tripartite motif protein 26 (Trim26), mRNA [NM_030698]	NM_030698	-1.08544
Mus musculus G protein-coupled receptor 54 (Gpr54), mRNA [NM_053244]	NM_053244	1.04042
TSC22 domain family 3	AF024519	-1.27699
Mus musculus DnaJ (Hsp40) homolog, subfamily B, member 5 (Dnajb5), mRNA [NM_019874]	NM_019874	1.15417
Sestrin 3	BC003348	-1.50786
Mus musculus paired-like homeobox 2a (Phox2a), mRNA [NM_008887]	NM_008887	1.05281
Golgi associated, gamma adaptin ear containing, ARF binding protein 2	AK034612	-1.04648
Mus musculus signal sequence receptor, delta (Ssr4), mRNA [NM_009279]	NM_009279	-1.23064
Mus musculus DNA segment, Chr 11, Brigham & Women's Genetics 0434 expressed sequence tag	NM_173742	-1.26351
RIKEN cDNA C330023D02 gene	AK129348	-1.09326
Mus musculus protein kinase C and casein kinase substrate in neurons 1 (Pacs1), mRNA [NM_011861]	NM_011861	1.05155
Mus musculus DNA segment, Chr 15, Brigham & Women's Genetics 0669 expressed sequence tag	NM_172610	1.11762
Mus musculus 2'-5' oligoadenylate synthetase-like 1 (Oasl1), mRNA [NM_145209]	NM_145209	-1.01907
Expressed sequence A1853548	AY255543	-1.06196
G protein-coupled receptor associated sorting protein 1	AK083192	-1.00393
Mus musculus hepsin (Hpn), mRNA [NM_008281]	NM_008281	-1.03749
Mus musculus RIKEN cDNA E130201N16 gene (E130201N16Rik), mRNA [NM_030024]	NM_030024	-1.05539
Mus musculus carboxypeptidase X 2 (M14 family) (Cpxm2), mRNA [NM_018867]	NM_018867	1.04475
RIKEN cDNA 4930556J24 gene	AK016148	-1.02932
Mus musculus myelodysplasia syndrome 1 homolog (human) (Mds1), mRNA [NM_021442]	NM_021442	1.06061
Taste receptor, type 1, member 1	NM_031867	1.06805
Mus musculus RIKEN cDNA 2310009E07 gene (2310009E07Rik), mRNA [NM_027115]	NM_027115	-1.38251
Interferon, alpha-inducible protein 27	AK075797	-1.04075
RIKEN cDNA 9430098F02 gene	AK035193	-1.04146
Mus musculus splicing factor 4 (Sf4), mRNA [NM_027481]	NM_027481	-1.05683
Mus musculus Musashi homolog 1 (Drosophila) (Msi1h), mRNA [NM_008629]	NM_008629	1.2534
Mus musculus snail homolog 1 (Drosophila) (Snai1), mRNA [NM_011427]	NM_011427	1.24259
Mus musculus calmodulin binding transcription activator 2 (Camta2), mRNA [NM_178116]	NM_178116	1.12936
Mus musculus RIKEN cDNA 5730449L18 gene (5730449L18Rik), mRNA [NM_025677]	NM_025677	-1.46116
Mus musculus RIKEN cDNA 3110037I16 gene (3110037I16Rik), mRNA [NM_028457]	NM_028457	-1.181
Mus musculus serine/threonine kinase 25 (yeast) (Stk25), mRNA [NM_021537]	NM_021537	-1.01372
Mus musculus olfactory receptor 786 (Olfr786), mRNA [NM_146549]	NM_146549	1.01701
Mus musculus nuclear receptor coactivator 1 (Ncoa1), mRNA [NM_010881]	NM_010881	1.05384
Mus musculus A kinase (PRKA) anchor protein 4 (Akap4), mRNA [NM_009651]	NM_009651	1.12146
Mus musculus guanylate cyclase 1, soluble, beta 2 (Gucy1b2), mRNA [NM_172810]	NM_172810	1.04875
IQ motif and WD repeats 1	AK004618	1.19658
Neurofilament 3, medium	AK048964	-1.05797
Mus musculus zinc finger protein (Zec), mRNA [NM_170759]	NM_170759	1.12131
Transcribed locus	BU605312	1.15213
Mus musculus growth differentiation factor 9 (Gdf9), mRNA [NM_008110]	NM_008110	-1.3322
Mus musculus Tax1 (human T-cell leukemia virus type I) binding protein 1 (Tax1BP1), mRNA [NM_025816]	NM_025816	-1.06639
Mus musculus MHC I - like leukocyte 1 (Mill1), mRNA [NM_153749]	NM_153749	-1.0726
RIKEN cDNA 1810020D17 gene	BC062811	-1.34583

Mus musculus hydroxysteroid 11-beta dehydrogenase 1 (Hsd11b1), mRNA [NM NM_008288]		-1.62938
Mus musculus prion protein (Prnp), mRNA [NM_011170]	NM_011170	-1.14802
Mus musculus vomeronasal 1 receptor, C29 (V1rc29), mRNA [NM_134184]	NM_134184	1.03312
Mus musculus ceruloplasmin (Cp), mRNA [NM_007752]	NM_007752	1.11662
Mus musculus olfactory receptor 461 (Olfr461), mRNA [NM_146382]	NM_146382	1.07839
Mus musculus RIKEN cDNA 9130017N09 gene (9130017N09Rik), mRNA [NM_ NM_030218]		1.01738
Mus musculus polymerase (RNA) II (DNA directed) polypeptide H (Polr2h), mRNA [NM_145632]		-1.45162
Mus musculus protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65 NM_016891)		1.04633
RIKEN cDNA E330034G19 gene	AK087874	1.00434
Centromere protein J	AK077045	-1.3892
Mus musculus A kinase (PRKA) anchor protein 3 (Akap3), mRNA [NM_009650]	NM_009650	-1.0518
Mus musculus RAN binding protein 9 (Ranbp9), mRNA [NM_019930]	NM_019930	-1.04773
Mus musculus glucocorticoid modulatory element binding protein 2 (Gmeb2), mRNA [NM_198169]		-1.00629
Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosyltransferase 1 (Uga1), mRNA [NM_015736]		-1.10297
Taste receptor, type 2, member 137	AF247735	1.05213
Mus musculus regulator of G-protein signaling 20 (Rgs20), mRNA [NM_021374]	NM_021374	-1.01038
Mus musculus nucleoporin 210 (Nup210), mRNA [NM_018815]	NM_018815	1.00673
Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9 (Nduf9), mRNA [NM_025358]		-1.30003
Mus musculus estrogen receptor-binding fragment-associated gene 9 (Ebag9), mRNA [NM_019480]		-1.50272
Protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting with mKIAA0231 protein	AK088710	-1.00752
	AK083378	1.27548
Mus musculus DNA segment, Chr 10, University of California at Los Angeles 1 (NM_178606)		-1.38866
Mus musculus stromal cell-derived factor 2-like 1 (Sdf2l1), mRNA [NM_022324]	NM_022324	1.00686
Mus musculus hypothetical protein MGC18837 (MGC18837), mRNA [NM_1785 NM_178577]		-1.23905
Leucine rich repeat transmembrane neuronal 1	AK018175	-1.02986
RIKEN cDNA 6720489N17 gene	AK033958	-1.18863
Mus musculus glutathione S-transferase, alpha 3 (Gsta3), mRNA [NM_010356]	NM_010356	-1.36932
Proteoglycan 4 (megakaryocyte stimulating factor, articular superficial zone proteoglycan) (AB034730)		-1.13119
Mus musculus potassium inwardly-rectifying channel, subfamily J, member 14 (KCNJ14), mRNA [NM_145963]		1.0105
Mus musculus RIKEN cDNA B930067F20 gene (B930067F20Rik), mRNA [NM_ NM_175563]		1.19807
osteoclast associated receptor	NM_175632	1.11886
Kin of IRRE like 3 (Drosophila)	AK034142	1.09872
Mus musculus imprinted and ancient (Impact), mRNA [NM_008378]	NM_008378	-1.27214
RIKEN cDNA 9530053A07 gene	NM_176924	1.03738
A disintegrin-like and metalloprotease (repolysin type) with thrombospondin type 1 motifs	AK041395	1.48848
Myotubularin related protein 13	AK048952	1.09668
P140 gene	NM_018873	1.15785
Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 16 (SLC16A16), mRNA [NM_020516]		1.01589
Mus musculus synaptotagmin 13 (Syt13), mRNA [NM_030725]	NM_030725	1.10474
Mus musculus per-hexamer repeat gene 4 (Phxr4), mRNA [NM_008835]	NM_008835	1.10139
Mus musculus Coenzyme A synthase (Coasy), mRNA [NM_027896]	NM_027896	1.17255
Mus musculus cDNA sequence BC005752 (BC005752), mRNA [NM_145582]	NM_145582	1.03743
Mus musculus RIKEN cDNA A830092L04 gene (A830092L04Rik), mRNA [NM_ NM_146253]		-1.01034
TAF4B RNA polymerase II, TATA box binding protein (TBP)-associated factor 4 (TAF4B), mRNA [NM_029943]		1.09694
Mus musculus myotrophin (Mtpn), mRNA [NM_008098]	NM_008098	1.02055
novel leucine zipper testicular protein	NM_026457	1.13163
Mus musculus branched chain ketoacid dehydrogenase kinase (Bckdk), mRNA [NM_009739]		1.21752
Retinoic acid induced 17	AK054366	1.06616
Mus musculus prospero-related homeobox 1 (Prox1), mRNA [NM_008937]	NM_008937	1.09536
Mus musculus ubiquinol cytochrome c reductase core protein 2 (Uqcrc2), mRNA [NM_025899]		-1.28472
Interleukin 2 receptor, alpha chain	AF054581	1.10865
Mus musculus palmitoyl-protein thioesterase 1 (Ppt1), mRNA [NM_008917]	NM_008917	-1.34471

Mus musculus RIKEN cDNA 1700055M20 gene (1700055M20Rik), transcript vε	NM_199455	1.07816
Mus musculus DNA segment, Chr 4, ERATO Doi 22, expressed (D4Ert22e), m	NM_174996	1.01951
Mus musculus male submandibular gland CRL-1734 SCA-9 clone 15 cDNA, RI	AK090005	1.26158
T-cell leukemia translocation altered gene	NM_133986	-1.12035
Mus musculus expressed sequence AU040950 (AU040950), mRNA [NM_1340	NM_134065	-1.09761
Mus musculus citrate lyase beta like (Clybl), mRNA [NM_029556]	NM_029556	-1.02283
Mus musculus programmed cell death 1 ligand 2 (Pcd1lg2), mRNA [NM_0213	NM_021396	1.13018
RIKEN cDNA 2310003L06 gene	AK009122	1.31001
Mus musculus Ly6/neurotoxin 1 (Lynx1), mRNA [NM_011838]	NM_011838	1.12127
Unknown		1.19264
RIKEN cDNA 4632433K11 gene	AK050452	-1.04155
RIKEN cDNA 5730555F13 gene	AK077578	-1.05073
Mus musculus tubulin-specific chaperone d (Tbcd), mRNA [NM_029878]	NM_029878	-1.00953
Mus musculus CTD (carboxy-terminal domain, RNA polymerase II, polypeptide	NM_026295	1.12181
Mus musculus solute carrier family 37 (glycerol-6-phosphate transporter), memt	NM_008063	-1.28
Cholinergic receptor, nicotinic, alpha polypeptide 3	AK080415	1
Mus musculus adult male colon cDNA, RIKEN full-length enriched library, clone:	AK078885	-1.14571
Mus musculus cytochrome P450, family 2, subfamily j, polypeptide 9 (Cyp2j9), n	NM_028979	-1.15674
RIKEN cDNA 9630041G16 gene	AK079356	1.0153
Mus musculus olfactory receptor 114 (Olfr114), mRNA [NM_146287]	NM_146287	1.03275
Mus musculus CD4 antigen (Cd4), mRNA [NM_013488]	NM_013488	-1.26859
Thioredoxin domain containing 7	AK076558	-1.13096
Mus musculus FK506 binding protein 6 (Fkbp6), mRNA [NM_033571]	NM_033571	-1.14167
Mus musculus mitochondrial ribosomal protein L33 (Mrpl33), mRNA [NM_0257	NM_025796	-1.18883
Mus musculus lysosomal acid lipase 1 (Lip1), mRNA [NM_021460]	NM_021460	1.06776
Mus musculus reticulon 1 (Rtn1), mRNA [NM_153457]	NM_153457	1.00854
Postmeiotic segregation increased 1 (S. cerevisiae)	AK045010	1.0697
Mus musculus RIKEN cDNA 1700060H10 gene (1700060H10Rik), mRNA [NM_	NM_133751	-1.45139
Mus musculus vomeronasal 1 receptor, E11 (V1re11), mRNA [NM_134230]	NM_134230	1.04916
Mus musculus RIKEN cDNA 4930529M08 gene (4930529M08Rik), mRNA [NM_	NM_175280	-1.0612
Mus musculus cDNA sequence BC036563 (BC036563), mRNA [NM_153159]	NM_153159	-1.22534
Mus musculus DNA segment, Chr 15, ERATO Doi 735, expressed (D15Ert735	NM_029098	1.03264
Mus musculus folate receptor 1 (adult) (Folr1), mRNA [NM_008034]	NM_008034	1.0293
Mus musculus RIKEN cDNA 1110001J03 gene (1110001J03Rik), mRNA [NM_	NM_025363	-1.4272
Myeloid/lymphoid or mixed-lineage leukemia 3	AK033338	1.14358
Mus musculus ciliary neurotrophic factor receptor (Cntfr), mRNA [NM_016673]	NM_016673	1.11919
OLFACTORY RECEPTOR MOR262-3. [Source:RefSeq;Acc:NM_146857] [ENSMUST0000005		1.12044
Mus musculus RIKEN cDNA 9130022A01 gene (9130022A01Rik), mRNA [NM_	NM_175305	-1.18761
Mus musculus brain protein 16 (Brp16), mRNA [NM_021555]	NM_021555	-1.02753
RIKEN cDNA 4930451F05 gene	AK015441	-1.01704
Mus musculus per-hexamer repeat gene 3 (Phxr3), mRNA [NM_008834]	NM_008834	1.02636
Mus musculus RIKEN cDNA 1110033F04 gene (1110033F04Rik), mRNA [NM_	NM_026807	1.15212
Mus musculus cytochrome P450, family 3, subfamily a, polypeptide 41 (Cyp3a4	NM_017396	1.04417
Mus musculus expressed sequence AI646725 (AI646725), mRNA [NM_133927	NM_133927	1.11713
Mus musculus adult female vagina cDNA, RIKEN full-length enriched library, clc	AK036850	-1.08829
Mus musculus cysteinyl leukotriene receptor 1 (Cysltr1), mRNA [NM_021476]	NM_021476	-1.05621
TRNA splicing endonuclease 54 homolog (SEN54, S. cerevisiae)	AK002758	1.01414
Carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroor	AK010453	-1.00059
Mus musculus RIKEN cDNA A730013G03 gene (A730013G03Rik), mRNA [NM_	NM_177299	-1.06268
Mus musculus similar to Spectrin alpha chain, brain (Spectrin, non-erythroid alp	XM_355324	1.04908
Mus musculus vomeronasal 1 receptor, C23 (V1rc23), mRNA [NM_134178]	NM_134178	1.05155
Mus musculus phosphatidylinositol glycan, class A (Piga), mRNA [NM_011081]	NM_011081	-1.53299

Mus musculus cDNA sequence BC023151 (BC023151), mRNA [NM_145387]	NM_145387	-1.07163
Mus musculus factor 8-associated gene A (F8a), mRNA [NM_007978]	NM_007978	-1.04915
Mus musculus sorting nexin 19 (Snx19), mRNA [NM_028874]	NM_028874	-1.20008
Mus musculus WNT1 inducible signaling pathway protein 1 (Wisp1), mRNA [NM_018865]	NM_018865	1.00593
RIKEN cDNA 4921530D09 gene	AK014983	1.08716
Mus musculus calcium channel, voltage-dependent, T type, alpha 1H subunit (CNM_021415)	CNM_021415	1.02665
Mus musculus mitogen activated protein kinase kinase 4 (Map2k4), mRNA [NM_009157]	NM_009157	-1.19771
Mus musculus epithelial membrane protein 2 (Emp2), mRNA [NM_007929]	NM_007929	-1.06124
Unknown		-1.11344
Mus musculus centaurin, delta 2 (Centd2), transcript variant 1, mRNA [NM_027180]	NM_027180	1.06554
Mus musculus ribonucleotide reductase M2 (Rrm2), mRNA [NM_009104]	NM_009104	-1.15573
Afamin	BC026681	1.07547
Mus musculus cripto, FRL-1, cryptic family 1 (Cfc1), mRNA [NM_007685]	NM_007685	1.04583
Phosphatidylinositol glycan, class X	NM_024464	-1.17066
Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, cDNA	AK081687	1.07981
RIKEN cDNA A930028L21 gene	AK020899	1.00429
Mus musculus DNA segment, Chr 8, ERATO Doi 354, expressed (D8Erttd354e), cDNA	NM_133970	-1.35983
RIKEN cDNA 4933402D24 gene	AK016612	1.09757
Jumonji domain containing 1A	AK049243	-1.08958
Mus musculus microtubule-associated protein 7 (Mtap7), mRNA [NM_008635]	NM_008635	1.08586
Mus musculus zinc finger, ZZ domain containing 3 (Zzz3), mRNA [NM_198416]	NM_198416	-1.15449
Mus musculus growth arrest and DNA-damage-inducible 45 beta (Gadd45b), mRNA [NM_008655]	NM_008655	-1.1783
Mus musculus spermatogenesis associated 2 (Spata2), mRNA [NM_170756]	NM_170756	1.08527
Mus musculus niban protein (Niban), mRNA [NM_022018]	NM_022018	-1.19271
DMRT-like family B with proline-rich C-terminal, 1	AF020191	-1.05917
Mus musculus programmed cell death 6 (Pcd6), mRNA [NM_011051]	NM_011051	-1.34577
GLYCOGEN SYNTHASE KINASE 3 (FRAGMENT) homolog [Xenopus laevis] [2700086H06]		1.02444
Mus musculus differentially expressed in FDCP 8 (Def8), mRNA [NM_054046]	NM_054046	1.11874
Vesicle-associated membrane protein, associated protein B and C	AK045725	-1.1099
Mus musculus calpain 7 (Capn7), mRNA [NM_009796]	NM_009796	-1.06824
Mus musculus RIKEN cDNA 3830406C13 gene (3830406C13Rik), mRNA [NM_178141]	NM_178141	-1.25203
RIKEN cDNA 4930564B18 gene	AK016216	1.024
Aldolase 1, A isoform, pseudogene 2	AK016845	1.05391
CXXC finger 5	NM_133687	1.12645
Mus musculus mago-nashi homolog, proliferation-associated (Drosophila) (Mago), cDNA [NM_010760]	NM_010760	-1.25524
Mus musculus potassium channel tetramerisation domain containing 3 (Kctd3), cDNA [NM_172650]	NM_172650	1.06226
Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library, cDNA	AK037823	1.07616
Mus musculus cDNA sequence BC017612 (BC017612), mRNA [NM_133214]	NM_133214	-1.2727
F11 receptor	NM_172647	-1.10289
Mus musculus sulfotransferase family 5A, member 1 (Sult5a1), mRNA [NM_020564]	NM_020564	1.02971
Mus musculus RIKEN cDNA 2410003P15 gene (2410003P15Rik), mRNA [NM_018888]	NM_018888	1.04937
Mus musculus B-cell leukemia/lymphoma 10 (Bcl10), mRNA [NM_009740]	NM_009740	-1.23518
Hypothetical LOC74273	AK129121	1.15993
Mus musculus linker of T-cell receptor pathways (Lnk), mRNA [NM_008507]	NM_008507	1.13085
Mus musculus pleckstrin homology domain-containing, family A (phosphoinositide-dependent kinase-1) (PDK1), cDNA [NM_031257]	NM_031257	1.10011
Mus musculus RIKEN cDNA 1110014C03 gene (1110014C03Rik), mRNA [NM_026775]	NM_026775	-1.40779
Mus musculus homolog of human MLLT2 unidentified gene (Mllt2h), mRNA [NM_133919]	NM_133919	-1.01316
Eukaryotic translation initiation factor 5	AK076403	-1.15008
Mus musculus fibroblast growth factor receptor 4 (Fgfr4), mRNA [NM_008011]	NM_008011	1.10195
Ethanol induced 2	AK003651	-1.27058
Mus musculus solute carrier family 37 (glycerol-3-phosphate transporter), member 1 (Slc37a1), cDNA [NM_020258]	NM_020258	-1.00803
Mus musculus hypothetical protein 4833413O15 (4833413O15), mRNA [XM_143619]	XM_143619	-1.0685

Mus musculus RIKEN cDNA D130026O08 gene (D130026O08Rik), mRNA [NM	NM_080448	1.06765
Mus musculus zinc finger protein 75 (Zfp75), mRNA [NM_172918]	NM_172918	-1.0155
Mus musculus adult male pituitary gland cDNA, RIKEN full-length enriched libra	AK030513	-1.03597
Mus musculus chromatin assembly factor 1, subunit A (p150) (Chaf1a), mRNA [NM_013733		1.00581
Mus musculus solute carrier family 4 (anion exchanger), member 1 (Slc4a1), mF	NM_011403	1.09495
Mus musculus tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activat	NM_011738	-1.65574
Desmoglein 3	AK029018	1.21569
Lanosterol synthase	AK015616	-1.0899
Mus musculus non imprinted in Prader-Willi/Angelman syndrome 1 homolog (hu	NM_153578	-1.37819
Mus musculus demethyl-Q 7 (Coq7), mRNA [NM_009940]	NM_009940	-1.27989
Mus musculus olfactory receptor 154 (Olfr154), mRNA [NM_013728]	NM_013728	1.12602
RIKEN cDNA 3100002J23 gene	AK013920	-1.28057
Mus musculus peroxisome biogenesis factor 5 (Pex5), mRNA [NM_008995]	NM_008995	1.08401
Mus musculus glucosidase beta 2 (Gba2), mRNA [NM_172692]	NM_172692	-1.00709
Mus musculus peptidyl arginine deiminase, type IV (Padi4), mRNA [NM_011061	NM_011061	1.03478
Mus musculus mitochondrial ribosomal protein L49 (Mrpl49), mRNA [NM_02624	NM_026246	-1.04906
Hect (homologous to the E6-AP (UBE3A) carboxyl terminus) domain and RCC1	AK083444	1.06518
CDNA sequence BC012016	BC012016	1.07179
Mus musculus synaptic vesicle glycoprotein 2 b (Sv2b), mRNA [NM_153579]	NM_153579	-1.0149
Mus musculus ferritin mitochondrial (Ftmt), mRNA [NM_026286]	NM_026286	1.18513
Mus musculus procollagen C-proteinase enhancer protein (Pcolce), mRNA [NM	NM_008788	-1.02473
Mus musculus vomeronasal 2, receptor, 14 (V2r14), mRNA [NM_009489]	NM_009489	1.068
Lix1-like	AK051276	-1.00976
Mus musculus RIKEN cDNA 1300010A20 gene (1300010A20Rik), mRNA [NM_	NM_146173	-1.16443
Ng23 protein	NM_138582	1.08048
Mus musculus Mki67 (FHA domain) interacting nucleolar phosphoprotein (Mki67	NM_026472	-1.26348
Mus musculus RIKEN cDNA 6720480D16 gene (6720480D16Rik), mRNA [NM_	NM_145483	-1.15853
Mus musculus adult male epididymis cDNA, RIKEN full-length enriched library, (	AK033817	1.08902
Mus musculus T-cell immunoglobulin and mucin domain containing 2 (Timd2), n	NM_134249	1.13101
Mus musculus X-ray repair complementing defective repair in Chinese hamster	NM_028012	1.0035
Mus musculus myosin XV (Myo15), transcript variant 1, mRNA [NM_010862]	NM_010862	-1.15081
Mus musculus glycoprotein hormone alpha 2 (Gpha2), mRNA [NM_130453]	NM_130453	1.1471
Leucine-rich repeat-containing G protein-coupled receptor 8	BU937004	1.08072
Mus musculus glycine C-acetyltransferase (2-amino-3-ketobutyrate-coenzyme A	NM_013847	-1.08667
Mus musculus esterase 22 (Es22), mRNA [NM_133660]	NM_133660	-1.09895
Expressed sequence C79407	AK035117	1.02424
Mus musculus eukaryotic translation initiation factor 1A (Eif1a), mRNA [NM_010	NM_010120	-2.19381
Mus musculus telomeric repeat binding factor 2 (Terf2), mRNA [NM_009353]	NM_009353	1.24939
Mus musculus COMM domain containing 8 (Comm8), mRNA [NM_178599]	NM_178599	1.01393
Unknown		1.06158
CDNA sequence BC065123	AF033664	-1.22577
Mus musculus RIKEN cDNA 1700072E05 gene (1700072E05Rik), mRNA [NM_	NM_028554	1.09452
Mus musculus ribonuclease H1 (Rnaseh1), mRNA [NM_011275]	NM_011275	-1.16913
Mus musculus mucin 5, subtype B, tracheobronchial (Muc5b), mRNA [NM_028	NM_028801	1.09314
Dedicator of cyto-kinesis 1	AK052606	-1.02945
Mus musculus chemokine (C-X3-C motif) ligand 1 (Cx3cl1), mRNA [NM_00914	NM_009142	-1.02733
Mus musculus RIKEN cDNA 4930414C22 gene (4930414C22Rik), mRNA [NM_	NM_177256	-1.14285
Mus musculus numb gene homolog (Drosophila) (Numb), mRNA [NM_010949]	NM_010949	-1.01158
similar to RIKEN cDNA 6030426L16	AK031311	1.07813
Cancer susceptibility candidate 1	AK034148	-1.07703
Mus musculus neuroblastoma, suppression of tumorigenicity 1 (Nbl1), mRNA [N	NM_008675	1.03181
Mus musculus perilipin (Plin), mRNA [NM_175640]	NM_175640	1.06949

Transcribed locus, moderately similar to XP_282988.2 PREDICTED: similar to r AI530533		-1.03469
Mus musculus RIKEN cDNA 2410006N06 gene (2410006N06Rik), mRNA [NM_028019]		1.00384
Mus musculus hypothetical LOC211623 (MGC41689), mRNA [NM_207229]	NM_207229	1.07326
Mus musculus general transcription factor II E, polypeptide 2 (beta subunit) (Gtf:NM_026584)		-1.1623
Mus musculus RIKEN cDNA 2610022G08 gene (2610022G08Rik), mRNA [NM_025574]		-1.03347
Mus musculus potassium channel tetramerisation domain containing 12 (Kctd12)	NM_177715	-1.42981
RIKEN cDNA 5730559C18 gene	AK017848	-1.05415
Protein tyrosine phosphatase, non-receptor type 22 (lymphoid)	NM_008979	-1.16698
Immunoglobulin superfamily, member 10	AK033487	-1.36455
Mus musculus SDA1 domain containing 1 (Sdad1), mRNA [NM_172713]	NM_172713	-1.10693
Mus musculus ubiquitin specific protease 20 (Usp20), mRNA [NM_028846]	NM_028846	-1.1321
beta1,6-N-acetylglucosaminyltransferase IX	AK049266	-1.07852
Mus musculus synaptoporin (Synpr), mRNA [NM_028052]	NM_028052	-1.08008
Mus musculus olfactory receptor 1055 (Olfr1055), mRNA [NM_147021]	NM_147021	1.0641
Superoxide dismutase 1, soluble	AK080908	1.0038
Mus musculus ets related protein 71 (Etsrp71), mRNA [NM_007959]	NM_007959	-1.18467
Mus musculus WW domain binding protein 11 (Wbp11), mRNA [NM_021714]	NM_021714	-1.64099
Mus musculus RIKEN cDNA C030014K22 gene (C030014K22Rik), mRNA [NM_175461]		1.18484
Unknown		-1.71017
Mus musculus methionine adenosyltransferase II, alpha (Mat2a), mRNA [NM_145569]	NM_145569	-1.26072
Mus musculus chemokine-like receptor 1 (Cmklr1), mRNA [NM_008153]	NM_008153	1.08425
Mus musculus RIKEN cDNA 6030460N08 gene (6030460N08Rik), mRNA [XM_127084]		1.35143
RIKEN cDNA 2210410P13 gene	AK008890	-1.03678
Mus musculus olfactory receptor 1132 (Olfr1132), mRNA [NM_146836]	NM_146836	1.03165
DNA segment, Chr 2, Brigham & Women's Genetics 1335 expressed	AK004089	-1.01185
Mus musculus vomeronasal 1 receptor, I10 (V1ri10), mRNA [NM_134245]	NM_134245	1.0778
Regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing	AK088299	-1.58978
RIKEN cDNA C130057G02 gene	AK045139	-1.07679
Mus musculus prolactin (PrI), mRNA [NM_011164]	NM_011164	-1.01436
VWA-like domains, matrilins and collagens	NM_172840	1.08089
Mus musculus RIKEN cDNA 2310043L02 gene (2310043L02Rik), mRNA [NM_027157]	NM_027157	1.07559
Mus musculus potassium voltage-gated channel, subfamily H (eag-related), member	NM_010600	1.1088
Mus musculus alpha-methylacyl-CoA racemase (Amacr), mRNA [NM_008537]	NM_008537	-1.00248
CXXC finger 6	AK010953	1.03109
Mus musculus G protein-coupled receptor 44 (Gpr44), mRNA [NM_009962]	NM_009962	1.08152
Mus musculus solute carrier family 30 (zinc transporter), member 6 (Slc30a6), mRNA [NM_144798]	NM_144798	-1.03469
Mus musculus RIKEN cDNA 2810013M15 gene (2810013M15Rik), mRNA [NM_026197]		-1.26129
Mus musculus RIKEN cDNA 2300002G02 gene (2300002G02Rik), mRNA [NM_172745]		-1.04246
Mus musculus mitochondrial ribosomal protein L39 (Mrpl39), mRNA [NM_017404]	NM_017404	-1.36245
Mus musculus tripartite motif protein 7 (Trim7), mRNA [NM_053166]	NM_053166	1.01162
Mus musculus unc-5 homolog D (C. elegans) (Unc5d), mRNA [NM_153135]	NM_153135	1.25432
Mus musculus protein kinase N1 (Pkn1), mRNA [NM_177262]	NM_177262	1.12075
Mus musculus FERM, RhoGEF and pleckstrin domain protein 2 (Farp2), mRNA [NM_145519]	NM_145519	1.05992
MAK10 homolog, amino-acid N-acetyltransferase subunit, (S. cerevisiae)	AK050805	-1.03156
Mus musculus dentin sialophosphoprotein (Dspp), mRNA [NM_010080]	NM_010080	1.0575
RIKEN cDNA 1700008P02 gene	AK005786	1.00192
RB-associated KRAB repressor	NM_021326	-1.00546
Mus musculus immunoglobulin superfamily, member 7 (Igsf7), mRNA [NM_134158]	NM_134158	-1.12033
Mus musculus RIKEN cDNA D330034A10 gene (D330034A10Rik), mRNA [NM_177368]		1.06833
c6.1a protein	NM_145956	-1.39071
Mus musculus solute carrier family 25 (mitochondrial deoxynucleotide carrier), member	NM_026071	-1.10279
Mus musculus BAI1-associated protein 1 (Baiap1), mRNA [NM_010367]	NM_010367	-1.14758

Mus musculus ATPase, H+ transporting, V1 subunit G isoform 1 (Atp6v1g1), mRNA [NM_024173]	mFNM_024173	-1.27715
DNA cross-link repair 1C, PSO2 homolog (S. cerevisiae)	AK086575	-1.05722
Mus musculus CCAAT/enhancer binding protein zeta (Cebpz), mRNA [NM_009882]	NM_009882	-1.41493
Mus musculus RIKEN cDNA 9030607L17 gene (9030607L17Rik), mRNA [NM_027829]	NM_027829	-1.20135
Mus musculus DNA segment, Chr 16, ERATO Doi 472, expressed (D16Erd472)	NM_025967	-1.08556
Mus musculus cytochrome P450, family 2, subfamily b, polypeptide 9 (Cyp2b9), mRNA [NM_010000]	NM_010000	-1.4847
Dynein, axonemal, heavy chain 12	Z83811	1.04356
Mus musculus kelch domain containing 2 (Klhdc2), mRNA [NM_027117]	NM_027117	-1.49112
X-ray repair complementing defective repair in Chinese hamster cells 1	AK009778	-1.10018
Mus musculus lady bird-like homeobox 2 homolog (Drosophila) (Lbx2h), mRNA [NM_010692]	NM_010692	1.08636
Dedicator of cytokinesis 4	AK030389	1.14005
Mus musculus sphingomyelin phosphodiesterase 2, neutral (Smpd2), mRNA [NM_009213]	NM_009213	1.11075
RIKEN cDNA 4933406J07 gene	AK016694	1.05159
Mus musculus fibroblast growth factor receptor substrate 3 (Frs3), mRNA [NM_144939]	NM_144939	-1.01417
Hypothetical protein C130092E12	AK129143	1.13948
Mus musculus thrombopoietin (Thpo), mRNA [NM_009379]	NM_009379	1.12321
Mus musculus MAF1 homolog (yeast) (Maf1), mRNA [NM_026859]	NM_026859	1.12417
Microtubule-actin crosslinking factor 1	AF150755	-1.2847
Mus musculus timeless homolog (Drosophila) (Timeless), mRNA [NM_011589]	NM_011589	-1.06071
Mus musculus amiloride-sensitive cation channel 2, neuronal (Accn2), mRNA [NM_009597]	NM_009597	1.0603
Unknown		1.15089
Mus musculus RIKEN cDNA 1700010D01 gene (1700010D01Rik), mRNA [NM_029590]	NM_029590	1.05714
Mus musculus tumor necrosis factor (Tnf), mRNA [NM_013693]	NM_013693	1.00733
Mus musculus coagulation factor VII (F7), mRNA [NM_010172]	NM_010172	1.11768
Mus musculus RIKEN cDNA C130052G03 gene (C130052G03Rik), mRNA [XM_282980]	XM_282980	1.15786
Mus musculus RIKEN cDNA 1700011I11 gene (1700011I11Rik), mRNA [NM_029291]	NM_029291	-1.04594
Dihydroliipoamide dehydrogenase	U73445	-1.36635
Kelch-like 20 (Drosophila)	NM_144876	-1.04207
Mus musculus RIKEN cDNA 1700022C21 gene (1700022C21Rik), mRNA [NM_029602]	NM_029602	-1.09969
Mus musculus zinc finger protein 74 (Zfp74), mRNA [NM_178384]	NM_178384	-1.19022
RIKEN cDNA D930001I22 gene	AK052945	-1.02966
Mus musculus p21 (CDKN1A)-activated kinase 1 (Pak1), mRNA [NM_011035]	NM_011035	1.00907
Mus musculus channel, sperm associated 4 (Catsper4), mRNA [NM_177866]	NM_177866	1
Hypothetical gene supported by AK032589	AK032589	1.29911
Cytotoxic T lymphocyte-associated protein 2 beta	X15592	-1.4609
RIKEN cDNA 9330158F14 gene	AK034126	1.03702
Mus musculus chemokine (C-C) receptor 3 (Ccr3), mRNA [NM_009914]	NM_009914	1.0016
Mus musculus RIKEN cDNA D130012J15 gene (D130012J15Rik), mRNA [NM_172271]	NM_172271	1.09848
Mus musculus olfactory receptor 646 (Olfr646), mRNA [NM_147056]	NM_147056	1.01302
Mus musculus DNA methyltransferase 3B (Dnmt3b), mRNA [NM_010068]	NM_010068	1.18796
Adenylate cyclase activating polypeptide 1 receptor 1	BC067039	1.0986
Mus musculus vomeronasal 1 receptor, H5 (V1rh5), mRNA [NM_134214]	NM_134214	1.17838
Mus musculus ATP-binding cassette, sub-family A (ABC1), member 8b (Abca8b), mRNA [NM_013851]	NM_013851	1.05337
Mus musculus phospholipase C, delta 3 (Plcd3), mRNA [NM_152813]	NM_152813	1.01194
Mus musculus RIKEN cDNA 1110029E03 gene (1110029E03Rik), mRNA [NM_172866]	NM_172866	-1.02212
Unknown		1.17788
Mus musculus serine/threonine kinase 22 substrate 1 (Stk22s1), mRNA [NM_011651]	NM_011651	1.19431
Mus musculus fibroblast growth factor inducible 15 (Fin15), mRNA [NM_008016]	NM_008016	1.03164
similar to Nucleolar phosphoprotein p130 (Nucleolar 130 kDa protein) (140 kDa)	NM_198633	1.1585
Mus musculus seminal vesicle secretion 6 (Svs6), mRNA [NM_013679]	NM_013679	1.04157
Mus musculus loss of heterozygosity, 12, chromosomal region 1 homolog (human)	NM_026371	-1.26617
Mus musculus protocadherin beta 7 (Pcdhb7), mRNA [NM_053132]	NM_053132	1.08188

Mus musculus XPA binding protein 1 (Xab1), mRNA [NM_133756]	NM_133756	-1.03403
Mus musculus expressed sequence C86302 (C86302), mRNA [NM_172746]	NM_172746	1.0274
Mus musculus calreticulin 3 (Calr3), mRNA [NM_028500]	NM_028500	-1.0103
hypothetical protein D930025H04	NM_177815	-1.00588
Mus musculus down-regulator of transcription 1 (Dr1), mRNA [NM_026106]	NM_026106	-1.28962
Mus musculus RIKEN cDNA 2310076E16 gene (2310076E16Rik), mRNA [NM_023821]	NM_023821	-1.02826
RIKEN cDNA 4921506J03 gene	AK037008	-1.20838
Zinc finger, DHHC domain containing 20	AK047968	-1.02442
Mus musculus RIKEN cDNA 2210408I21 gene (2210408I21Rik), mRNA [NM_028215]	NM_028215	-1.04923
Solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, sy:AF087578)		1.05996
Mus musculus Stam binding protein (Stamp), mRNA [NM_024239]	NM_024239	-1.31394
Mus musculus retinoblastoma 1 (Rb1), mRNA [NM_009029]	NM_009029	-1.52808
Mus musculus PRP39 pre-mRNA processing factor 39 homolog (yeast) (Prpf39), mRNA [NM_177806]	NM_177806	-1.39221
Aldolase 3, C isoform	AK039267	1.0703
Mus musculus olfactory receptor 907 (Olf907), mRNA [NM_146805]	NM_146805	1.0513
RIKEN cDNA 5730599I05 gene	AK050977	1.03365
Mus musculus MAD homolog 3 (Drosophila) (Smad3), mRNA [NM_016769]	NM_016769	1.06673
Mus musculus phosphatidic acid phosphatase type 2B (Ppap2b), mRNA [NM_080555]	NM_080555	1.39187
Mus musculus olfactory receptor 874 (Olf874), mRNA [NM_146882]	NM_146882	1.08267
Mus musculus component of oligomeric golgi complex 4 (Cog4), mRNA [NM_133973]	NM_133973	-1.02261
RIKEN cDNA 1300019J08 gene	AK005066	1.10594
Mus musculus histone deacetylase 3 (Hdac3), mRNA [NM_010411]	NM_010411	1.15683
Mus musculus solute carrier family 30 (zinc transporter), member 1 (Slc30a1), mRNA [NM_009579]	NM_009579	-1.02066
Similar to Sodium/hydrogen exchanger 3 (Na(+)/H(+) exchanger 3) (NHE-3)	AK002857	1.12367
Mus musculus hypothetical protein D030069K18 (D030069K18), mRNA [NM_177894]	NM_177894	-1.21511
Mus musculus RIKEN cDNA 1110057H19 gene (1110057H19Rik), mRNA [NM_025409]	NM_025409	-1.34416
Desmoplakin	AK077574	-1.17131
Mus musculus RIKEN cDNA 9830123M21 gene (9830123M21Rik), mRNA [NM_177642]	NM_177642	-1.06989
Mus musculus RIKEN cDNA 4930553M18 gene (4930553M18Rik), mRNA [NM_029248]	NM_029248	-1.44616
Mus musculus transferrin receptor 2 (Trfr2), mRNA [NM_015799]	NM_015799	-1.62401
Mus musculus oxysterol binding protein-like 3 (Osbp13), mRNA [NM_027881]	NM_027881	-1.25813
Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, cDNA clone MGC:11898 IMAGE:3598523, complete cds	AK048558	1
RIKEN cDNA 1200003E16 gene	AK030022	1.1642
Mus musculus actin related protein 2/3 complex, subunit 4 (Arpc4), mRNA [NM_026552]	NM_026552	-1.03292
Mus musculus retinol dehydrogenase 7 (Rdh7), mRNA [NM_017473]	NM_017473	1.0267
Mus musculus kinesin family member 9 (Kif9), mRNA [NM_010628]	NM_010628	1.00731
Mus musculus cysteine sulfonic acid decarboxylase (Csad), mRNA [NM_144942]	NM_144942	1.0828
Zinc finger protein 451	AK015797	1.07712
Mus musculus regulator of G-protein signaling 17 (Rgs17), mRNA [NM_019958]	NM_019958	1.0493
hypothetical protein 9830125E18	NM_177707	-1.11386
Mus musculus solute carrier family 6 (neurotransmitter transporter, creatine), member 1 (Slc6a6), mRNA [NM_133987]	NM_133987	-1.05896
Mus musculus Dicer1, Dcr-1 homolog (Drosophila) (Dicer1), mRNA [NM_148948]	NM_148948	1.44078
CDNA clone MGC:11898 IMAGE:3598523, complete cds	BC005705	1.34151
Expressed sequence AW555814	AK087712	-1.53606
PP2B beta 2=calmodulin-dependent protein phosphatase regulatory subunit beta 2 (Ppp2r2b), mRNA [NM_043865]	NM_043865	1.08497
Mus musculus interleukin-1 receptor-associated kinase 2 (Irak2), mRNA [NM_172161]	NM_172161	1.00062
Mus musculus RIKEN cDNA 2300004C15 gene (2300004C15Rik), mRNA [NM_027086]	NM_027086	1.03699
Mus musculus RIKEN cDNA 5330431N19 gene (5330431N19Rik), mRNA [NM_172639]	NM_172639	1.26868
Mus musculus LSM8 homolog, U6 small nuclear RNA associated (S. cerevisiae) (Lsm8), mRNA [NM_133939]	NM_133939	-1.34559
Mus musculus prosaposin (Psap), mRNA [NM_011179]	NM_011179	-1.60182
Mus musculus RIKEN cDNA 2210409M21 gene (2210409M21Rik), mRNA [NM_133728]	NM_133728	-1.47246
Mus musculus RAB22A, member RAS oncogene family (Rab22a), mRNA [NM_024436]	NM_024436	1.06247

RIKEN cDNA D030022P06 gene	AK041511	1.07004
chitinase like protein 2	AB081756	1.0578
Mus musculus fibrillin 1 (Fbn1), mRNA [NM_007993]	NM_007993	-1.3218
Mus musculus activity regulated cytoskeletal-associated protein (Arc), mRNA [NNM_018790]		1.07462
Mus musculus calcium and integrin binding 1 (calmyrin) (Cib1), mRNA [NM_011NM_011870]		-1.0639
Mus musculus RE1-silencing transcription factor (REST) co-repressor 1 (Rcor1)	NM_054048	1.09432
Mus musculus matrix metalloproteinase 12 (Mmp12), mRNA [NM_008605]	NM_008605	1.10335
Mus musculus RIKEN cDNA 5830434P21 gene (5830434P21Rik), mRNA [NM_NM_172661]		1.0418
Mus musculus growth hormone receptor (Ghr), mRNA [NM_010284]	NM_010284	-1.29118
RIKEN cDNA 2810043G13 gene	BC048704	-1.08761
Mus musculus stauflen (RNA binding protein) homolog 2 (Drosophila) (Stau2), r	NM_025303	-1.12828
Unknown		1.02308
Iron responsive element binding protein 2	AK034218	-1.44607
Mus musculus topoisomerase (DNA) III alpha (Top3a), mRNA [NM_009410]	NM_009410	1.02433
Mus musculus aminolevulinate, delta-, dehydratase (Alad), mRNA [NM_008525]	NM_008525	1.08737
Mus musculus solute carrier organic anion transporter family, member 1a1 (Slcc	NM_013797	-1.19711
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK006309		-1.03423
Amino carboxymuconate semialdehyde decarboxylase	AK036772	-1.37254
Mus musculus cysteine and histidine rich 1 (Cyhr1), mRNA [NM_019396]	NM_019396	-1.03885
Mus musculus RIKEN cDNA 1500004O14 gene (1500004O14Rik), mRNA [NM_NM_025901]		-1.43361
RIKEN cDNA 4632434I11 gene	AK014608	-1.12973
Mus musculus RIKEN cDNA 4933434E20 gene (4933434E20Rik), mRNA [NM_NM_025762]		-1.34903
Mus musculus solute carrier family 26, member 6 (Slc26a6), mRNA [NM_13442	NM_134420	1.06555
RIKEN cDNA 4930431F12 gene	AK015267	-1.14296
Mus musculus similar to hypothetical protein MGC42493 (LOC238722), mRNA [XM_138712]		-1.0916
Mus musculus bone marrow stromal cell antigen 1 (Bst1), mRNA [NM_009763]	NM_009763	-1.37262
RIKEN cDNA 4930525F21 gene	AK015893	1.03002
Unknown		-1.01013
Mus musculus src-like adaptor (Sla), mRNA [NM_009192]	NM_009192	-1.02502
Congenital dyserythropoietic anemia, type I (human)	AK029170	1.06153
Mus musculus F-box and WD-40 domain protein 2 (Fbxw2), mRNA [NM_013891]	NM_013890	-1.05716
Mus musculus retinoic acid receptor responder (tazarotene induced) 2, mRNA (i	BC015275	-1.09667
Mus musculus stimulated by retinoic acid gene 8 (Stra8), mRNA [NM_009292]	NM_009292	1.01667
Mus musculus RIKEN cDNA 1700001F09 gene (1700001F09Rik), mRNA [NM_NM_027940]		1.27274
Mus musculus protein kinase C, iota (Prkci), mRNA [NM_008857]	NM_008857	-1.1074
Mus musculus olfactory receptor 1294 (Olfr1294), mRNA [NM_146885]	NM_146885	1.0002
Mus musculus olfactory receptor 655 (Olfr655), mRNA [NM_146820]	NM_146820	-1.03623
Mus musculus cDNA sequence BC059842 (BC059842), mRNA [NM_198170]	NM_198170	-1.07221
Mus musculus cyclin-dependent kinase-like 1 (CDC2-related kinase) (Cdkl1), m	NM_183294	1.05512
RIKEN cDNA 4930403J22 gene	AK017580	-1.08925
Mus musculus phospholipase A2, group XIIB (Pla2g12b), mRNA [NM_023530]	NM_023530	1.09184
Mus musculus general transcription factor II E, polypeptide 1 (alpha subunit) (Gt	NM_028812	-1.28214
Mus musculus interferon dependent positive acting transcription factor 3 gamma	NM_008394	1.05009
Mus musculus HIV-1 tat interactive protein 2, homolog (human) (Htatip2), mRN	NM_016865	-1.15624
Mus musculus 3-hydroxyisobutyrate dehydrogenase (Hibadh), mRNA [NM_1455	NM_145567	-1.15879
Dynein, cytoplasmic, heavy chain 2	AK014500	1.12224
CDNA sequence BC006779	BC006779	-1.18067
Similar to hypothetical protein FLJ20527	AK016833	1.04913
Mus musculus RIKEN cDNA 2600005O03 gene (2600005O03Rik), mRNA [NM_NM_183089]		-1.25525
Mus musculus polycystic kidney disease 2-like 2 (Pkd2l2), mRNA [NM_016927]	NM_016927	-1.20066
Mus musculus RIKEN cDNA 2610005B21 gene (2610005B21Rik), mRNA [NM_NM_028109]		-1.0071
Polymerase (RNA) III (DNA directed) polypeptide C	AK016716	-1.00421

Mus musculus RIKEN cDNA 2400003C14 gene (2400003C14Rik), mRNA [NM_	NM_028018	-1.03266
Mus musculus RIKEN cDNA 2010004O20 gene (2010004O20Rik), mRNA [NM_	NM_022418	-1.04739
AF433208 cytochrome b (Callaesa cinerea wilsoni), partial (21%) [TC1054178]		1.05257
Mus musculus mitochondrial translational initiation factor 2 (Mtif2), mRNA [NM_	NM_133767	-1.26147
Mus musculus RIKEN cDNA 9330157P13 gene (9330157P13Rik), mRNA [NM_	NM_177049	1.07194
Mus musculus RIKEN cDNA 1500032D16 gene (1500032D16Rik), mRNA [NM_	NM_030087	1.04501
Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 9 (Nuc	NM_028794	-1.23288
Mus musculus phosphatidylinositol 3-kinase, catalytic, beta polypeptide (Pik3cb,	NM_029094	-1.76083
Mus musculus cDNA sequence BC010552 (BC010552), mRNA [NM_145394]	NM_145394	-1.07791
Mus musculus RIKEN cDNA 1700029H14 gene (1700029H14Rik), mRNA [NM_	NM_025601	1.09327
Mus musculus postmeiotic segregation increased 2 (S. cerevisiae) (Pms2), mRN	NM_008886	-1.06776
Methionine-tRNA synthetase	BC058968	1.2217
Mus musculus RIKEN cDNA 1200009C21 gene (1200009C21Rik), mRNA [NM_	NM_028659	-1.2856
Mus musculus four and a half LIM domains 2 (Fhl2), mRNA [NM_010212]	NM_010212	-1.26543
Toll-interleukin 1 receptor (TIR) domain-containing adaptor protein	AK081514	1.04721
Mus musculus RIKEN cDNA 4933430F08 gene (4933430F08Rik), mRNA [NM_	NM_028967	-1.11734
Mus musculus a disintegrin-like and metalloprotease (reprolysin type) with thron	NM_013906	-1.07979
RIKEN cDNA 2410016O06 gene	AK078791	-1.03703
Mus musculus RIKEN cDNA 1110058P22 gene (1110058P22Rik), mRNA [XM_	XM_147935	-1.07849
Mus musculus RIKEN cDNA 9230106L18 gene (9230106L18Rik), mRNA [NM_	(NM_033145	-1.07287
RIKEN cDNA 4931407G18 gene	BC049750	1.03039
Mus musculus mitochondrial ribosomal protein S35 (Mrps35), mRNA [NM_1455	NM_145573	-1.52349
Mus musculus tau tubulin kinase 1 (Tbk1), mRNA [NM_080788]	NM_080788	-1.06234
Mus musculus caspase recruitment domain 4 (Card4), mRNA [NM_172729]	NM_172729	-1.04717
Integrin beta 4	BC059192	1.04856
Mus musculus olfactory receptor 1404 (Olfr1404), mRNA [NM_146881]	NM_146881	1.15039
Mus musculus dystrobrevin alpha (Dtna), transcript variant 2, mRNA [NM_0100	NM_010087	-1.06786
Microtubule associated monooxygenase, calponin and LIM domain containing 2	NM_177282	1.19164
RIKEN cDNA 4930560E09 gene	AK016184	-1.01898
Protease, serine, 28	NM_053259	-1.06294
RIKEN cDNA 1500032P08 gene	X12905	-1.5544
Mus musculus nuclear receptor subfamily 2, group F, member 6 (Nr2f6), mRNA	NM_010150	1.00316
Mus musculus brain and reproductive organ-expressed protein (Bre), transcript	NM_181279	1.11044
Mus musculus small inducible cytokine subfamily E, member 1 (Scye1), mRNA	NM_007926	-1.39701
RIKEN cDNA 2310002F09 gene	AK009217	-1.00174
RIKEN cDNA 7730401J12 gene	AK033078	1
Mus musculus collectin sub-family member 12 (Colec12), mRNA [NM_130449]	NM_130449	-1.43075
Mus musculus claudin 7 (Cldn7), mRNA [NM_016887]	NM_016887	-1.03401
RIKEN cDNA 6030422M01 gene	AK020053	1.12189
Mus musculus acidic (leucine-rich) nuclear phosphoprotein 32 family, member A	NM_009672	-1.04464
Mus musculus RIKEN cDNA 5033405K12 gene (5033405K12Rik), mRNA [NM_	NM_153567	-1.77072
Mus musculus hypothetical protein A130096K20 (A130096K20), mRNA [NM_17	NM_177835	1.08356
Mus musculus membrane targeting (tandem) C2 domain containing 1 (Mtac2d1,	NM_028924	-1.00765
Mus musculus angiopoietin-like 6 (Angptl6), mRNA [NM_145154]	NM_145154	-1.28708
AHNAK nucleoprotein (desmoyokin)	X65157	-1.03021
Sodium channel, voltage-gated, type III, beta	BC058636	-1.01408
hypothetical protein E130311K13	NM_177856	-1.56405
Dachsous 1 (Drosophila)	AK048080	1.18166
Mus musculus ubiquitin carboxyl-terminal esterase L5 (Uchl5), mRNA [NM_019	NM_019562	-1.91509
Mus musculus sprouty homolog 4 (Drosophila) (Spry4), mRNA [NM_011898]	NM_011898	1
Small nuclear ribonucleoprotein D3	NM_026095	-1.70025
Sorting nexin 7	AK011015	-1.44936

Mus musculus low density lipoprotein receptor-related protein 2 (Lrp2), mRNA [XM_130363]		1.00868
Sprouty-related, EVH1 domain containing 2	BC030460	-1.06255
Mus musculus annexin A11 (Anxa11), mRNA [NM_013469]	NM_013469	1.01717
Mus musculus LIM-domain containing, protein kinase (Limk1), mRNA [NM_010717]	NM_010717	-1.01347
Mus musculus suppression of tumorigenicity 13 (St13), mRNA [NM_133726]	NM_133726	-1.15242
Mus musculus RIKEN cDNA 2410012A13 gene (2410012A13Rik), mRNA [NM_023396]	NM_023396	-1.06387
Cortactin binding protein 2	AK032356	-1.30601
hypothetical protein 4732467B22	NM_177822	-1.10227
Mus musculus RIKEN cDNA 4921530G04 gene (4921530G04Rik), mRNA [NM_027622]	NM_027622	-1.09803
Mus musculus nucleoporin 160 (Nup160), mRNA [NM_021512]	NM_021512	-1.02172
Mus musculus olfactory receptor 1151 (Olfr1151), mRNA [NM_146638]	NM_146638	-1.06609
Mus musculus olfactory receptor 976 (Olfr976), mRNA [NM_146367]	NM_146367	1.14985
Mus musculus olfactory receptor 351 (Olfr351), mRNA [NM_146942]	NM_146942	1.04757
Mus musculus RIKEN cDNA 2810450M21 gene (2810450M21Rik), mRNA [NM_177323]	NM_177323	-1.21703
Mus musculus RIKEN cDNA 4921531G14 gene (4921531G14Rik), mRNA [NM_025736]	NM_025736	-1.36434
Mus musculus RIKEN cDNA 5730592L21 gene (5730592L21Rik), mRNA [NM_029720]	NM_029720	-1.07716
Mus musculus interferon-related developmental regulator 1 (Ifrd1), mRNA [NM_013562]	NM_013562	-1.59113
Mus musculus RIKEN cDNA 4930579K19 gene (4930579K19Rik), mRNA [NM_175227]	NM_175227	-1.03052
Mus musculus UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 1, mRNA [NM_019737]	NM_019737	-1.01863
hypothetical protein 4933408F15	NM_172715	-1.14945
Mus musculus claudin 15 (Cldn15), mRNA [NM_021719]	NM_021719	-1.07782
AV065344 Mus musculus small intestine C57BL/6J adult Mus musculus cDNA cAV065344		-1.00525
RIKEN cDNA 1500017I17 gene	AK005279	1.30088
RIKEN cDNA 5033417F24 gene	AK018199	-1.05869
Mus musculus adult male corpora quadrigemina cDNA, RIKEN full-length enrichment	AK045798	-1.07033
Mus musculus succinate dehydrogenase complex, subunit D, integral membrane protein, mRNA [NM_025848]	NM_025848	-1.50682
RIKEN cDNA 4930422G04 gene	AK046429	1.0409
Mus musculus Werner syndrome homolog (human) (Wrn), mRNA [NM_011721]	NM_011721	-1.21903
Mus musculus RIKEN cDNA 1810035L17 gene (1810035L17Rik), mRNA [NM_026958]	NM_026958	-1.37497
Mus musculus RIKEN cDNA 2010323F13 gene (2010323F13Rik), mRNA [NM_177157]	NM_177157	1.05264
Mus musculus zinc finger protein (C2H2 type) 276 (Zfp276), mRNA [NM_020497]	NM_020497	1.03413
Mus musculus NK6 transcription factor related, locus 1 (Drosophila) (Nkx6-1), mRNA [NM_144955]	NM_144955	1.25585
Mus musculus RIKEN cDNA 1700052N19 gene (1700052N19Rik), mRNA [NM_024261]	NM_024261	1.02924
Mus musculus ELAV (embryonic lethal, abnormal vision, Drosophila)-like 4 (Human) (Elavl4), mRNA [NM_010488]	NM_010488	1.34848
Mus musculus vomeronasal 1 receptor, D9 (V1rd9), mRNA [NM_030735]	NM_030735	1.00926
Mus musculus olfactory receptor 982 (Olfr982), mRNA [NM_146854]	NM_146854	1.07754
Expressed sequence AI427122	BC026410	-1.26795
Mus musculus leukocyte-associated Ig-like receptor 1 (Lair1), mRNA [NM_178611]	NM_178611	-1.10428
RIKEN cDNA 5730507C01 gene	AK017753	1.05336
RIKEN cDNA B430315C20 gene	AK046696	1.02479
Mus musculus lin 7 homolog b (C. elegans) (Lin7b), mRNA [NM_011698]	NM_011698	-1.00453
Ring finger protein 170	AK036051	1.03267
Mus musculus expressed sequence AI854635 (AI854635), mRNA [NM_177565]	NM_177565	1.03638
Mus musculus RIKEN cDNA 2210418O10 gene, mRNA (cDNA clone MGC:665:BC059210)		-1.51419
Mus musculus inter-alpha trypsin inhibitor, heavy chain 2 (Itih2), mRNA [NM_010582]	NM_010582	1.03195
Mus musculus 2 days neonate thymus thymic cells cDNA, RIKEN full-length enrichment	AK088420	1.06967
Mus musculus vomeronasal 1 receptor, G6 (V1rg6), mRNA [NM_134207]	NM_134207	1.15632
Dynein, axonemal, heavy chain 3	AK053178	1.20499
Kinesin family member 5B	NM_008448	-1.1345
Unknown		1.06774
Mus musculus PFTAIRE protein kinase 1 (Pftk1), mRNA [NM_011074]	NM_011074	1.05844
Mus musculus high mobility group AT-hook 1 (Hmga1), mRNA [NM_016660]	NM_016660	1.03728

RIKEN cDNA D130020G16 gene	AK033222	1.0361
Protein kinase C binding protein 1	BC012446	-1.05307
Mus musculus seizure related 6 homolog (mouse)-like 2 (Sez6l2), mRNA [NM_144926]	NM_144926	1.08812
Mus musculus fibroblast growth factor receptor substrate 2 (Frs2), mRNA [NM_177798]	NM_177798	-1.02767
Mus musculus a disintegrin and metalloprotease domain 10 (Adam10), mRNA [NM_007399]	NM_007399	-1.08142
zinc finger protein 422, related sequence 1	AK032339	1.20566
Mus musculus olfactory receptor 1444 (Olfr1444), mRNA [NM_146702]	NM_146702	-1.04996
Mus musculus RIKEN cDNA 2310061C15 gene (2310061C15Rik), mRNA [NM_026844]	NM_026844	-1.12524
MAD homolog 3 (Drosophila)	BI646741	-1.16323
Mus musculus cDNA sequence BC026666 (BC026666), mRNA [NM_146077]	NM_146077	1.42006
Mus musculus RGM domain family, member C (Rgmc), mRNA [NM_027126]	NM_027126	1.11081
Mus musculus protein tyrosine phosphatase 4a1 (Ptp4a1), mRNA [NM_011200]	NM_011200	-1.06355
Mus musculus core 1 UDP-galactose:N-acetylgalactosamine-alpha-R beta 1,3-c	NM_052993	-1.1059
Mus musculus slit homolog 1 (Drosophila) (Slit1), mRNA [NM_015748]	NM_015748	1.12659
Mus musculus like-glycosyltransferase (Large), mRNA [NM_010687]	NM_010687	-1.10033
Mus musculus killer cell lectin-like receptor, subfamily A, member 16 (Klra16), mRNA [NM_013794]	NM_013794	-1.08453
Mus musculus secretoglobin, family 1A, member 1 (uteroglobin) (Scgb1a1), mRNA [NM_011681]	NM_011681	
RIKEN cDNA 0710005I19 gene	AK015642	1.08562
JC5921 non-selective cation channel - mouse, partial (5%) [TC1042686]		1.04719
RIKEN cDNA 1200003E16 gene	AB093299	-1.12354
Mus musculus cytochrome c oxidase subunit IV isoform 1 (Cox4i1), mRNA [NM_009941]	NM_009941	-1.11601
RIKEN cDNA 5430406M13 gene	AK045646	-1.05791
Mus musculus C1q and tumor necrosis factor related protein 3 (C1qtnf3), mRNA [NM_030888]	NM_030888	1.03062
Mus musculus acyl-Coenzyme A dehydrogenase family, member 9 (Acad9), mRNA [NM_172678]	NM_172678	-1.09879
Mus musculus valyl-tRNA synthetase 2 (Vars2), mRNA [NM_011690]	NM_011690	1.11611
Mus musculus solute carrier family 4, sodium bicarbonate cotransporter, member 1 (Slc4a4), mRNA [NM_172830]	NM_172830	1.10884
Ectonucleotide pyrophosphatase/phosphodiesterase 4	AK030189	-1.67743
Mus musculus golgi autoantigen, golgin subfamily a, 1 (Golga1), mRNA [NM_029793]	NM_029793	-1.08757
Pregnancy-associated plasma protein A	AF258461	-1.06638
Protein kinase C, nu	AK017739	-1.20435
Mus musculus male germ cell-associated kinase (Mak), mRNA [NM_008547]	NM_008547	1.04504
inferred: ras-related protein rap1B {Homo sapiens} [2810443E11]		-1.84696
Mus musculus RIKEN cDNA 4921517N04 gene (4921517N04Rik), mRNA [XM_130138]	XM_130138	-1.06594
Mus musculus malic enzyme 2, NAD(+)-dependent, mitochondrial (Me2), mRNA [NM_145494]	NM_145494	-1.0889
Mus musculus RIKEN cDNA 3110049J23 gene (3110049J23Rik), mRNA [NM_026085]	NM_026085	-1.20042
RIKEN cDNA 5033403D15 gene	BC026648	-1.21399
Expressed sequence AI607873	AK054438	1.01068
Mus musculus transcription factor 15 (Tcf15), mRNA [NM_009328]	NM_009328	1.05655
Molybdenum cofactor sulfurase	BC016223	-1.00061
Mus musculus suppressor of cytokine signaling 4 (Socs4), mRNA [NM_080843]	NM_080843	1.07243
Mus musculus histocompatibility 2, Q region locus 1 (H2-Q1), mRNA [NM_010390]	NM_010390	1.26968
Mus musculus RIKEN cDNA 1110033J19 gene (1110033J19Rik), mRNA [NM_025405]	NM_025405	-1.21276
Ring finger protein 180	AK032259	-1.25639
Mus musculus methylthioadenosine phosphorylase (Mtap), mRNA [NM_024433]	NM_024433	-1.1529
Mus musculus sushi-repeat-containing protein, X-linked 2 (Srxp2), mRNA [NM_026838]	NM_026838	1.1237
Mus musculus rhomboid, veinlet-like 4 (Drosophila) (Rhbdl4), mRNA [NM_139228]	NM_139228	1.34136
Mus musculus Y box protein 2 (Ybx2), mRNA [NM_016875]	NM_016875	1.29533
Mus musculus olfactory receptor 100 (Olfr100), mRNA [NM_207673]	NM_207673	-1.00216
Mus musculus RIKEN cDNA 1110028E10 gene (1110028E10Rik), mRNA [NM_152808]	NM_152808	1.00173
Similar to hypothetical protein FLJ30294	AK010233	1.01688
Unknown		-1.05488
Mus musculus olfactory receptor 239 (Olfr239), mRNA [NM_207175]	NM_207175	1.04853

Mus musculus acid phosphatase 6, lysophosphatidic (Acp6), mRNA [NM_019800]	NM_019800	-1.24602
Scavenger receptor cysteine rich domain containing, group B (4 domains)	AK082786	1.01464
Mus musculus Bcl2-like 14 (apoptosis facilitator) (Bcl2l14), mRNA [NM_025778]	NM_025778	1.07387
Mus musculus mitogen-activated protein kinase 6 (Mapk6), mRNA [NM_015806]	NM_015806	-1.48175
Mus musculus RIKEN cDNA 5730427C23 gene (5730427C23Rik), mRNA [NM_153777]	NM_153777	-1.23083
POU domain, class 4, transcription factor 3	AK039639	1.11004
Mus musculus RIKEN cDNA 2310009N05 gene (2310009N05Rik), mRNA [NM_025861]	NM_025861	1.02763
Mus musculus methionine aminopeptidase-like 1 (Metap11), mRNA [NM_025633]	NM_025633	1.1467
Mus musculus RIKEN cDNA 9130012B15 gene (9130012B15Rik), mRNA [NM_030221]	NM_030221	-1.0527
mn87b10.x1 Stratagene mouse Tcell 937311 Mus musculus cDNA clone IMAGE428226		1.00175
Mus musculus zinc finger protein 287 (Zfp287), mRNA [NM_133208]	NM_133208	1.01421
Mus musculus cDNA sequence BC021614 (BC021614), mRNA [NM_144869]	NM_144869	1.14346
Mus musculus guanine nucleotide binding protein (G protein), gamma 2 subunit	NM_010315	-1.08873
Mus musculus chemokine (C-C motif) ligand 19 (Ccl19), mRNA [NM_011888]	NM_011888	1.05175
Mus musculus ARP10 actin-related protein 10 homolog (S. cerevisiae) (Actr10)	NM_019785	-1.33102
Mus musculus guanine nucleotide binding protein, beta 2 (Gnb2), mRNA [NM_010312]	NM_010312	1.48779
RIKEN cDNA A830039N02 gene	AK016522	-1.01912
Mus musculus propionyl-Coenzyme A carboxylase, alpha polypeptide (Pcca), mRNA [NM_144844]	NM_144844	1.03627
Progesterone receptor membrane component 2	BC044759	-1.49768
Mus musculus ring finger protein 4 (Rnf4), mRNA [NM_011278]	NM_011278	-1.00309
Mus musculus RIKEN cDNA E330009J07 gene (E330009J07Rik), mRNA [NM_175528]	NM_175528	1.16966
Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 1	NM_153081	-1.03004
Galactosidase, beta 1-like	AK029925	-1.1013
Mus musculus hepatoma-derived growth factor (Hdgf), mRNA [NM_008231]	NM_008231	-1.08778
Mus musculus RIKEN cDNA 2310008M10 gene (2310008M10Rik), mRNA [NM_025509]	NM_025509	-1.23355
Mus musculus RIKEN cDNA 0610031J06 gene (0610031J06Rik), mRNA [NM_020003]	NM_020003	1.12859
Mus musculus eukaryotic translation elongation factor 1 beta 2 (Eef1b2), mRNA [NM_018796]	NM_018796	-1.39389
Mus musculus RIKEN cDNA 6430527G18 gene (6430527G18Rik), mRNA [NM_145836]	NM_145836	-1.04021
RIKEN cDNA 2700078E11 gene	BC026635	-1.29761
Mus musculus claudin 18 (Cldn18), mRNA [NM_019815]	NM_019815	-1.29028
Mus musculus MYST histone acetyltransferase 1 (Myst1), mRNA [NM_026370]	NM_026370	-1.06827
Mus musculus brain protein 44-like (Brp44l), mRNA [NM_018819]	NM_018819	-1.3701
Ectonucleoside triphosphate diphosphohydrolase 6	AK030789	1.09384
Mus musculus dihydroorotate dehydrogenase (Dhodh), mRNA [NM_020046]	NM_020046	-1.04996
Mus musculus mRNA for zinc finger protein, partial cds.	D10627	-1.566
Mus musculus melanocortin 3 receptor (Mc3r), mRNA [NM_008561]	NM_008561	1.09228
Notch gene homolog 1 (Drosophila)	Z11886	1.15884
Mus musculus olfactory receptor 62 (Olfr62), mRNA [NM_146315]	NM_146315	1.29057
RIKEN cDNA 1810062G17 gene	AK007933	1.1498
Mus musculus RIKEN cDNA 1110059F07 gene (1110059F07Rik), mRNA [NM_172649]	NM_172649	-1.01557
Mus musculus cation channel of sperm 1 (Catsper1), mRNA [NM_139301]	NM_139301	1.0428
Mus musculus RIKEN cDNA 1110020A09 gene (1110020A09Rik), mRNA [NM_027415]	NM_027415	-1.77199
RIKEN cDNA 4930589M24 gene	AK015334	1
Mus musculus myocyte enhancer factor 2B (Mef2b), mRNA [NM_008578]	NM_008578	1.14286
RIKEN cDNA 2310043N10 gene	AK028745	-1.11659
RIKEN cDNA 5830411G16 gene	AK122228	-1.13515
Mus musculus mitochondrial ribosomal protein L24 (Mrpl24), mRNA [NM_026591]	NM_026591	-1.20603
RIKEN cDNA 6330403L08 gene	AK018107	-1.02724
Unknown		1.12006
Mus musculus oligophrenin 1 (Ophn1), mRNA [NM_052976]	NM_052976	-1.11113
Mus musculus small proline-rich protein 1B (Sprr1b), mRNA [NM_009265]	NM_009265	1.13206
Mus musculus vomeronasal 1 receptor, A2 (V1ra2), mRNA [NM_011684]	NM_011684	1.10714

Mus musculus cleavage and polyadenylation specificity factor 3 (Cpsf3), mRNA [NM_018813]		1.0063
Mus musculus signal transducer and activator of transcription 6 (Stat6), mRNA [NM_009284]		1.05652
Mus musculus polynucleotide kinase 3'-phosphatase (Pnkp), mRNA [NM_0215.NM_021549]		-1.05193
Olfactory receptor 23	X89688	-1.07468
Mus musculus chromatin assembly factor 1, subunit B (p60) (Chaf1b), mRNA [NM_028083]		-1.0982
Mus musculus RIKEN cDNA 9230117N10 gene (9230117N10Rik), mRNA [NM_0133775]		-1.22779
Golgi phosphoprotein 4	AK050346	-1.41436
Mus musculus PR domain containing 16 (Prdm16), mRNA [NM_027504]	NM_027504	-1.02823
Mus musculus solute carrier family 22 (organic anion transporter), member 7 (Slc22a7), mRNA [SI:NM_144856]		1.06401
Mus musculus RIKEN cDNA E430025E21 gene (E430025E21Rik), mRNA [NM_0153548]		-1.07307
Mus musculus oral cancer overexpressed 1 (Oraov1), mRNA [NM_028184]	NM_028184	-1.1623
IQ motif containing F5	AK005734	1.04684
Mus musculus RIKEN cDNA 6720458F09 gene (6720458F09Rik), mRNA [NM_0177374]		1.06498
Mus musculus cDNA sequence BC030867 (BC030867), mRNA [NM_0153544]	NM_0153544	1.01937
RIKEN cDNA 3110047P20 gene	AB093290	1.05495
Ring finger protein 41	AK044103	1.09692
Unknown		1.14035
Serine/threonine kinase 3 (Ste20, yeast homolog)	AK021111	-1.12685
Mus musculus aldehyde dehydrogenase family 6, subfamily A1 (Aldh6a1), mRNA [NM_0134042]		-1.68311
Mus musculus orthopedia homolog (Drosophila) (Otp), mRNA [NM_011021]	NM_011021	1.01541
Mus musculus RIKEN cDNA 2600016J21 gene (2600016J21Rik), mRNA [NM_01133744]		-1.46635
Mus musculus G protein-coupled receptor 2 (Gpr2), mRNA [NM_007721]	NM_007721	1.12878
Protocadherin 10	NM_011043	1.02394
RIKEN cDNA 1700065O13 gene	AK088750	-1.05698
Mus musculus kinesin family member C5A (Kifc5a), mRNA [NM_053173]	NM_053173	-1.02791
Ras-GTPase-activating protein SH3-domain binding protein	NM_013716	-1.26516
Mus musculus cDNA sequence BC009118 (BC009118), mRNA [NM_0145595]	NM_0145595	-1.30921
STIP1 homology and U-Box containing protein 1	NM_019719	1.1279
Mus musculus RIKEN cDNA 3632413B07 gene (3632413B07Rik), mRNA [NM_01027230]		1.19114
Transcribed locus	BE570772	1.10736
Mus musculus olfactory receptor 196 (Olfr196), mRNA [NM_0146779]	NM_0146779	-1.0027
Tropomyosin 1, alpha	AK002271	1.00414
Mus musculus interleukin 7 receptor (Il7r), mRNA [NM_008372]	NM_008372	-1.35787
Mus musculus cystatin F (leukocystatin) (Cst7), mRNA [NM_009977]	NM_009977	-1.01133
Neural cell adhesion molecule 1	X15052	1.03605
Signal recognition particle receptor ('docking protein')	BC012512	-1.1777
Mus musculus eukaryotic translation initiation factor 4, gamma 2 (Eif4g2), mRNA [NM_013507]		-1.29414
Mus musculus brain and acute leukemia, cytoplasmic (Baalc), mRNA [NM_080640]	NM_080640	-1.21032
Mus musculus RIKEN cDNA 1700034H14 gene (1700034H14Rik), mRNA [NM_01025969]		-1.4217
Unknown		-1.10154
Mus musculus testis derived transcript (Tes), mRNA [NM_0207176]	NM_0207176	1.17929
Mus musculus signal transducer and activator of transcription 5A (Stat5a), mRNA [NM_011488]		-1.04302
Mus musculus glycerol kinase 2 (Gk2), mRNA [NM_010294]	NM_010294	-1.0725
Mus musculus olfactory receptor 38 (Olfr38), mRNA [NM_0146986]		1.0633
RIKEN cDNA 3830417A13 gene	AK014439	1.11506
Mus musculus interleukin 27 (Il27), mRNA [NM_0145636]		1.1322
Melanoma antigen, family D, 1	NM_019791	-1.07654
RIKEN cDNA 5430439G14 gene	AK018129	1
Mus musculus RIKEN cDNA A430075L18 gene (A430075L18Rik), mRNA [NM_0176919]		-1.40769
Mus musculus cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK4) (Cdkn2d), mRNA [NM_009878]		-1.24743
RIKEN cDNA E330039G21 gene	BC051090	1.14645
RIKEN cDNA 4930564D02 gene	AK016218	1

Mus musculus DNA segment, Chr 16, human D22S680E, expressed (D16H22S)	NM_138583	-1.029
Mus musculus delta-like 1 (<i>Drosophila</i>) (Dll1), mRNA [NM_007865]	NM_007865	-1.11869
Nuclear receptor interacting protein 1	NM_173440	1.06874
Mus musculus RIKEN cDNA 3526402H21 gene (3526402H21Rik), mRNA [NM_025702]	NM_025702	1.01814
Mitochondrial ribosomal protein L44	BC019727	-1.25748
Mus musculus RIKEN cDNA 2810040O04 gene (2810040O04Rik), mRNA [XM_143826]	XM_143826	-1.33734
Unknown		1.21953
RIKEN cDNA B430201A12 gene	AK046595	1.07518
Nanog homeobox	AY455282	-1.02492
Mus musculus cDNA sequence BC024561 (BC024561), mRNA [NM_153576]	NM_153576	-1.15828
Chromodomain helicase DNA binding protein 9	BC052896	1.10716
Cleavage and polyadenylation specific factor 5	AK017799	-1.48122
Mus musculus tetratricopeptide repeat domain 5 (Ttc5), mRNA [NM_177625]	NM_177625	1.10185
Nucleoporin like 1	AK006062	1.04539
Mus musculus superoxide dismutase 1, soluble (Sod1), mRNA [NM_011434]	NM_011434	-1.12016
Mus musculus PTEN induced putative kinase 1 (Pink1), mRNA [NM_026880]	NM_026880	-1.17657
Mus musculus Rho guanine nucleotide exchange factor (GEF) 3 (Arhgef3), mRNA [NM_027871]	NM_027871	-1.3295
Lipocalin 6	AK033743	1.03812
Mus musculus olfactory receptor 898 (Olfr898), mRNA [NM_146871]	NM_146871	1.03795
Mus musculus RIKEN cDNA A730012O14 gene (A730012O14Rik), mRNA [NM_177882]	NM_177882	1.03975
Mus musculus vesicle-associated membrane protein 8 (Vamp8), mRNA [NM_016794]	NM_016794	1.08584
Mus musculus olfactory receptor 644 (Olfr644), mRNA [NM_147121]	NM_147121	1.01329
Mus musculus RIKEN cDNA 2610304F09 gene (2610304F09Rik), mRNA [NM_172965]	NM_172965	1.05171
Mus musculus baculoviral IAP repeat-containing 6 (Birc6), mRNA [NM_007566]	NM_007566	-1.44302
RIKEN cDNA 2810039B14 gene	AK084954	-1.00423
Anterior pharynx defective 1b homolog (<i>C. elegans</i>)	NM_177583	-1.07827
Mus musculus anillin, actin binding protein (scraps homolog, <i>Drosophila</i>) (Anln), mRNA [NM_028390]	NM_028390	1.13794
Mus musculus matrilin 2 (Matn2), mRNA [NM_016762]	NM_016762	-1.14001
Mus musculus interleukin 10 receptor, beta (Il10rb), mRNA [NM_008349]	NM_008349	-1.38912
Mus musculus olfactory receptor GA_x5J8B7W4T2P-84764-83847	NM_146262	-1.01306
Mus musculus histocompatibility 2, complement component factor B (H2-Bf), mRNA [NM_008198]	NM_008198	-1.04252
RIKEN cDNA 1810029C22 gene	BC046292	1.05862
Mus musculus similar to hypothetical protein FLJ25124 (LOC333665), mRNA [XM_289760]	XM_289760	1.00226
Mus musculus RIKEN cDNA 1700011J10 gene (1700011J10Rik), mRNA [NM_183265]	NM_183265	-1.59074
Mus musculus orosomucoid 2 (Orm2), mRNA [NM_011016]	NM_011016	-1.02035
Mus musculus signal recognition particle 72 (Srp72), mRNA [XM_132143]	XM_132143	-1.45814
Mus musculus neurotrophin receptor associated death domain (Nradd), mRNA [NM_026012]	NM_026012	1.0941
Mus musculus minichromosome maintenance deficient 7 (<i>S. cerevisiae</i>) (Mcm7), mRNA [NM_008568]	NM_008568	1.00241
Mus musculus RIKEN cDNA D530020C15 gene (D530020C15Rik), mRNA [NM_172665]	NM_172665	-1.18334
Mus musculus proline dehydrogenase (Prodh), mRNA [NM_011172]	NM_011172	1.06865
Mus musculus transient receptor potential cation channel, subfamily C, member 1	NM_012035	1
Mus musculus receptor tyrosine kinase-like orphan receptor 2 (Ror2), mRNA [NM_013846]	NM_013846	1.08612
Mus musculus RIKEN cDNA 6430601K09 gene (6430601K09Rik), mRNA [NM_199021]	NM_199021	1.01896
ATP-binding cassette, sub-family B (MDR/TAP), member 1A	NM_011076	-1.16838
Expressed sequence AU024076	AA794923	1.04877
Mus musculus cDNA sequence BC048403 (BC048403), mRNA [NM_173022]	NM_173022	1.08449
Mus musculus solute carrier family 18 (vesicular monoamine), member 1 (Slc18a1), mRNA [NM_153054]	NM_153054	1.00022
Zinc finger protein 286	AK089738	1.15716
Tripartite motif-containing 62	AK048725	1.0939
602392238F1 NIH_MGC_94 Mus musculus cDNA clone IMAGE:4504089 5', mRNA [BG294923]	BG294923	1.0654
Mus musculus mucin 1, transmembrane (Muc1), mRNA [NM_013605]	NM_013605	1.04855
RIKEN cDNA 4930417M19 gene	AK076708	1.0043

Mus musculus hypothetical protein 9630041N07 (9630041N07), mRNA [NM_17	NM_173387	1.00963
Mus musculus budding uninhibited by benzimidazoles 1 homolog, beta (S. cere	NM_009773	1.06881
RIKEN cDNA 4930569K13 gene	AK021319	1.05631
Mus musculus degenerative spermatocyte homolog (Drosophila) (Degs), mRNA	NM_007853	-1.40809
Mus musculus special AT-rich sequence binding protein 2 (Satb2), mRNA [NM_	NM_139146	1.10563
RIKEN cDNA 2700050L05 gene	NM_145995	-1.25051
Mus musculus six transmembrane epithelial antigen of the prostate (Steap), mR	NM_027399	-1.01514
Mus musculus RIKEN cDNA B230339H12 gene (B230339H12Rik), mRNA [NM_	NM_172282	-1.16661
Mus musculus heterochromatin protein 1, binding protein 3 (Hp1bp3), mRNA [N	NM_010470	-1.12771
Mus musculus zinc finger protein 60 (Zfp60), mRNA [NM_009560]	NM_009560	1
Ribophorin II	AK029507	1.14694
Mus musculus cullin 1 (Cul1), mRNA [NM_012042]	NM_012042	-1.11613
Mus musculus nuclease sensitive element binding protein 1 (Nsep1), mRNA [N	NM_011732	-1.548
Mus musculus cytochrome P450, family 2. subfamily c, polypeptide 37 (Cyp2c3	NM_010001	1.00461
Mus musculus zinc finger protein, autosomal (Zfa), mRNA [NM_009540]	NM_009540	1
Mus musculus solute carrier family 22 (organic anion/cation transporter), memb	NM_009203	1.26458
Mus musculus phosphodiesterase 4A, cAMP specific (Pde4a), mRNA [NM_019	NM_019798	-1.07881
Mus musculus toll-like receptor 8 (Tlr8), mRNA [NM_133212]	NM_133212	-1.0492
Mus musculus RIKEN cDNA 5730568A12 gene (5730568A12Rik), mRNA [NM_	NM_025689	-1.09038
Mus musculus rhotekin (Rtkn), mRNA [NM_133641]	NM_133641	1.00504
Mus musculus WW domain binding protein 2 (Wbp2), mRNA [NM_016852]	NM_016852	1.30836
Mus musculus protein tyrosine phosphatase, receptor type, B (Ptrpb), mRNA [N	NM_029928	-1.0572
Mus musculus aldehyde dehydrogenase family 1, subfamily A1 (Aldh1a1), mRN	NM_013467	-1.12397
Mus musculus RIKEN cDNA 2700019D07 gene (2700019D07Rik), mRNA [NM_	NM_028287	-1.09694
Mus musculus olfactory receptor 1030 (Olfr1030), mRNA [NM_146588]	NM_146588	1.08983
Transcribed locus	BE980334	1.04926
Mus musculus zinc finger protein 313 (Zfp313), mRNA [NM_030743]	NM_030743	-1.01037
Mus musculus GTP cyclohydrolase 1 (Gch), mRNA [NM_008102]	NM_008102	-1.18494
Mus musculus U2 small nuclear ribonucleoprotein auxiliary factor (U2AF) 2 (U2	NM_133671	1.18833
Mus musculus kinesin family member 13A (Kif13a), mRNA [NM_010617]	NM_010617	-1.02501
Mus musculus solute carrier family 37 (glycerol-3-phosphate transporter), mem	NM_153062	-1.10852
Mus musculus tubby-like protein 3 (Tulp3), mRNA [NM_011657]	NM_011657	1.08451
Unknown		1.10156
Mus musculus apolipoprotein C-II (Apoc2), mRNA [NM_009695]	NM_009695	1.06425
Mus musculus S100 calcium binding protein A13 (S100a13), mRNA [NM_00911	NM_009113	-1.34595
Mus musculus t-complex protein 10c (Tcp10c), mRNA [NM_009341]	NM_009341	1.04213
Mus musculus protein inhibitor of activated STAT, 4 (Pias4), mRNA [NM_02150	NM_021501	1.03808
Mus musculus RIKEN cDNA 2210415M20 gene (2210415M20Rik), mRNA [NM_	NM_027338	1.07461
Fibrosin 1	U20239	1.1453
Mus musculus RAB18, member RAS oncogene family (Rab18), mRNA [NM_01	NM_011225	-1.29736
Supervillin	AK021019	1.34328
Corticotropin releasing hormone receptor 2	NM_009953	1.14116
Mus musculus LIM homeobox protein 9 (Lhx9), mRNA [NM_010714]	NM_010714	1.0785
Potassium channel, subfamily T, member 1	AK129355	1.02143
Mus musculus vitronectin (Vtn), mRNA [NM_011707]	NM_011707	1.14717
Mus musculus olfactory receptor 346 (Olfr346), mRNA [NM_146938]	NM_146938	1.11692
RIKEN cDNA 4930447K03 gene	AK015408	-1.12838
CDNA sequence BC031575	AK035704	1.17716
Mus musculus sperm associated antigen 7 (Spag7), mRNA [NM_172561]	NM_172561	-1.07007
Mus musculus glial cell line derived neurotrophic factor family receptor alpha 3 (	NM_010280	1.13959
RIKEN cDNA 2900069M18 gene	AK013759	1.15225
Mus musculus ubiquinol-cytochrome c reductase core protein 1 (Uqcrc1), mRN	NM_025407	-1.15017

Mus musculus RIKEN cDNA 2700038N03 gene (2700038N03Rik), mRNA [NM_027356]	NM_027356	-1.04908
Mus musculus solute carrier organic anion transporter family, member 1a4 (Slcc1a4), mRNA [NM_030687]	NM_030687	1.18399
Mus musculus integral membrane protein GDD1 (Gdd1), mRNA [NM_177694]	NM_177694	1.08152
Mus musculus MAS1 oncogene (Mas1), mRNA [NM_008552]	NM_008552	1.0047
Mus musculus hepatocyte growth factor activator (Hgfac), mRNA [NM_019447]	NM_019447	-1.0426
Mus musculus ankyrin repeat domain 5 (Ankrd5), mRNA [NM_175667]	NM_175667	1.18648
CDNA sequence BC053440	BC027148	-1.18768
Mitogen-activated protein kinase kinase kinase 13	AK051378	-1.20981
Mus musculus UDP-N-acetylglucosamine pyrophosphorylase 1 (Uap1), mRNA [NM_133806]	NM_133806	-1.45108
Mus musculus Iroquois related homeobox 4 (Drosophila) (Irx4), mRNA [NM_018885]	NM_018885	1.0959
Mus musculus cation channel, sperm associated 2 (Catsper2), mRNA [NM_153075]	NM_153075	1.00877
Mus musculus cDNA sequence BC034054 (BC034054), mRNA [NM_178049]	NM_178049	1.09543
Mus musculus 2'-5' oligoadenylate synthetase 1H (Oas1h), mRNA [NM_145228]	NM_145228	1.07589
Mus musculus transducin-like enhancer of split 2, homolog of Drosophila E(spl)	NM_019725	-1.00403
Histone 3, H2a	AK015962	1.13893
Mus musculus gene rich cluster, A gene (Grca), mRNA [NM_013533]	NM_013533	1.0662
Mus musculus cardiotrophin 1 (Ctf1), mRNA [NM_007795]	NM_007795	-1.05142
Mus musculus olfactory receptor 589 (Olfr589), mRNA [NM_147052]	NM_147052	1.01445
Mus musculus RIKEN cDNA 9430028I06 gene (9430028I06Rik), mRNA [NM_175413]	NM_175413	1.00919
RNA binding motif protein 6	AK015717	-1.04043
Mus musculus tripartite motif protein 2 (Trim2), mRNA [NM_030706]	NM_030706	-1.00827
Mus musculus L-3-hydroxyacyl-Coenzyme A dehydrogenase, short chain (Hadhs), mRNA [NM_008212]	NM_008212	1.01276
Mus musculus leukemia inhibitory factor (Lif), mRNA [NM_008501]	NM_008501	1.07182
DEAH (Asp-Glu-Ala-His) box polypeptide 8	BC022656	-1.05152
Mus musculus nucleolar protein 7 (Nol7), mRNA [NM_023554]	NM_023554	-1.81828
Mus musculus RIKEN cDNA 9430007A20 gene (9430007A20Rik), mRNA [NM_198662]	NM_198662	1.00117
Mus musculus dual adaptor for phosphotyrosine and 3-phosphoinositides 1 (Dap1), mRNA [NM_011932]	NM_011932	-1.05043
DEAD (Asp-Glu-Ala-Asp) box polypeptide 46	AK008639	-1.00503
Mus musculus RIKEN cDNA A130009K11 gene (A130009K11Rik), mRNA [NM_201373]	NM_201373	1.06334
Mus musculus olfactory receptor 920 (Olfr920), mRNA [NM_146787]	NM_146787	-1.01995
Mus musculus genomic screened homeo box 2 (Gsh2), mRNA [NM_133256]	NM_133256	-1.06389
Glycerol-3-phosphate acyltransferase, mitochondrial	M77003	-1.79578
Mus musculus 13 days embryo head cDNA, RIKEN full-length enriched library, cDNA	AK014209	1.04058
Mus musculus olfactory receptor 1426 (Olfr1426), mRNA [NM_146809]	NM_146809	-1.09513
Mus musculus adult male adrenal gland cDNA, RIKEN full-length enriched library, cDNA	AK078618	-1.01026
Mus musculus B-cell leukemia/lymphoma 2 (Bcl2), mRNA [NM_177410]	NM_177410	-1.14089
Mus musculus Swi/SNF related matrix associated, actin dependent regulator of chromatin 1 (Smad4), mRNA [NM_018817]	NM_018817	-1.0617
Mus musculus RIKEN cDNA B230363K08 gene (B230363K08Rik), mRNA [NM_172848]	NM_172848	1.09598
Mus musculus hypoxia inducible factor 3, alpha subunit (Hif3a), mRNA [NM_016868]	NM_016868	1.11501
Mus musculus keratin complex 1, acidic, gene 16 (Krt1-16), mRNA [NM_008470]	NM_008470	1.22859
Cytidine deaminase	AB041806	1.06425
Mus musculus engulfment and cell motility 1, ced-12 homolog (C. elegans) (Elm1), mRNA [NM_080288]	NM_080288	1.06395
Centromere protein E	AK049676	-1.0672
Mus musculus dynein, cytoplasmic, light chain 2B (Dncl2b), mRNA [NM_029297]	NM_029297	-1.20526
Mus musculus diphtheria toxin resistance protein required for diphthamide biosynthesis (Dtr), mRNA [NM_144491]	NM_144491	1.05924
interferon response element binding factor 1	NM_013714	1
Mus musculus ecotropic viral integration site 5 (Evi5), mRNA [NM_007964]	NM_007964	-1.12301
Mus musculus RIKEN cDNA E330039K12 gene (E330039K12Rik), mRNA [NM_175561]	NM_175561	1.05256
RIKEN cDNA A430096B05 gene	BC026653	1.0102
Mus musculus RIKEN cDNA 0610030H11 gene (0610030H11Rik), mRNA [NM_026712]	NM_026712	-1.121
Mus musculus solute carrier family 29 (nucleoside transporters), member 2 (Slc29a2), mRNA [NM_007854]	NM_007854	1.01123
Mus musculus cystatin 10 (chondrocytes) (Cst10), mRNA [NM_021405]	NM_021405	1.05121

Mus musculus RIKEN cDNA C430010P07 gene (C430010P07Rik), mRNA [NM_NM_177645	-1.29092
Mus musculus ATPase, Ca ⁺⁺ transporting, cardiac muscle, fast twitch 1 (Atp2a	1.01854
Mus musculus hypocretin (orexin) receptor 2 (Hcrtr2), mRNA [NM_198962] NM_198962	1.00844
Bcl3 binding protein AK048616	1.33918
Mus musculus CHK2 checkpoint homolog (S. pombe) (Chek2), mRNA [NM_016NM_016681	-1.16699
Mus musculus guanosine diphosphate (GDP) dissociation inhibitor 2 (Gdi2), mRN	NM_008111 -1.00715
RIKEN cDNA A930005C09 gene AK020809	-1.01435
Mus musculus v-maf musculoaponeurotic fibrosarcoma oncogene family, protei	NM_010757 1.11053
Mus musculus cyclic nucleotide gated channel alpha 1 (Cnga1), mRNA [NM_00 NM_007723	1.05284
Mus musculus cDNA sequence BC062951 (BC062951), mRNA [NM_199032] NM_199032	-1.16819
Mus musculus alkaline phosphatase 5 (Akp5), mRNA [NM_007433] NM_007433	1.00357
Unknown	1.10381
disco interacting protein 2 homolog (Drosophila) AB093213	1.05203
Mus musculus GRP1 (general receptor for phosphoinositides 1)-associated sca	NM_019518 1.37694
Mus musculus myosin binding protein H (Mybph), mRNA [NM_016749] NM_016749	1.01079
RIKEN cDNA 1700010L04 gene AK005840	1.1085
NACHT, LRR and PYD containing protein 9c AK087873	1.00877
Mus musculus cathepsin L (Ctsl), mRNA [NM_009984] NM_009984	-1.23715
Mus musculus nicotinamide N-methyltransferase (Nnmt), mRNA [NM_010924] NM_010924	-1.13222
Mus musculus NADPH oxidase 4 (Nox4), mRNA [NM_015760] NM_015760	1.08385
Mus musculus RIKEN cDNA 6330500A18 gene (6330500A18Rik), mRNA [NM_ NM_172675	-1.10898
Mus musculus vitamin K epoxide reductase complex, subunit 1 (Vkorc1), mRNA	NM_178600 -1.06235
Mus musculus cDNA sequence BC027342 (BC027342), mRNA [NM_146251] NM_146251	1.06848
Mus musculus RIKEN cDNA 0710001P09 gene (0710001P09Rik), mRNA [NM_ NM_025351	-1.22509
Mus musculus thrombospondin, type I domain containing 6 (Thsd6), mRNA [NM	NM_025629 -1.10566
Mus musculus glutathione S-transferase, theta 2 (Gstt2), mRNA [NM_010361] NM_010361	-1.02663
Mus musculus RIKEN cDNA 1700051E09 gene (1700051E09Rik), mRNA [NM_ NM_026097	-1.11364
Mus musculus dimethylarginine dimethylaminohydrolase 2 (Ddah2), mRNA [NM	NM_016765 -1.0691
Mus musculus fatty acid 2-hydroxylase (Fa2h), mRNA [NM_178086] NM_178086	1.076
Mus musculus sarcolipin (Sln), mRNA [NM_025540] NM_025540	1.06289
ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 NM_153124	-1.056
Mus musculus MAD2L1 binding protein (Mad2l1bp), mRNA [NM_025649] NM_025649	-1.02174
Mus musculus vomeronasal 1 receptor, C20 (V1rc20), mRNA [NM_134175] NM_134175	1.02936
Mus musculus 0 day neonate skin cDNA, RIKEN full-length enriched library, clo	AK014555 1.08175
Mus musculus IQ motif containing GTPase activating protein 1 (Iqgap1), mRNA	NM_016721 -1.04831
Transcriptional regulating factor 1 AK035176	-1.03247
Mus musculus solute carrier family 5 (neutral amino acid transporters, system A	NM_023219 -1.03451
Mus musculus RIKEN cDNA 9430063L05 gene (9430063L05Rik), mRNA [NM_ NM_178080	1.02731
RIKEN cDNA 4632425D07 gene AK035053	-1.11706
Mus musculus Kruppel-like factor 13 (Klf13), mRNA [NM_021366] NM_021366	1.51162
RIKEN cDNA 1700029J11 gene AK006503	1.14531
Mus musculus vomeronasal 1 receptor, C10 (V1rc10), mRNA [NM_134165] NM_134165	1.0389
Mus musculus expressed sequence AI324046 (AI324046), mRNA [NM_198640] NM_198640	-1.01653
Mus musculus zinc finger, CW-type with coiled-coil domain 1 (Zcwcc1), mRNA [	NM_198162 1.0018
Mus musculus SET and MYND domain containing 2 (Smyd2), mRNA [NM_0267	NM_026796 -1.13548
TAF6-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated f	AK082962 -1.10974
Mus musculus RIKEN cDNA D330037A14 gene (D330037A14Rik), mRNA [NM_ NM_153537	1.19635
Mus musculus RIKEN cDNA 2810002D23 gene (2810002D23Rik), mRNA [XM_ XM_132758	1.00684
Ventricular zone expressed PH domain homolog 1 (zebrafish) NM_028357	1.57908
Mus musculus taube nuss (Tbn), mRNA [NM_022015] NM_022015	-1.67543
Mus musculus ubiquitously expressed transcript (Uxt), mRNA [NM_013840] NM_013840	-1.16368
Mus musculus RIKEN cDNA 1190005I06 gene (1190005I06Rik), mRNA [NM_1	NM_197988 -1.01198

Potassium voltage gated channel, Shab-related subfamily, member 2	AK036239	1.01104
Mus musculus vitelliform macular dystrophy 2 homolog (human) (Vmd2), mRNA	NM_011913	-1.00058
Mus musculus gene rich cluster, C10 gene (Grcc10), mRNA [NM_013535]	NM_013535	1.07546
Mus musculus WAS protein family, member 3 (Wasf3), mRNA [NM_145155]	NM_145155	-1.02959
Mus musculus interleukin 17C (Il17c), mRNA [NM_145834]	NM_145834	1.09577
DNA segment, Chr 2, Brigham & Women's Genetics 1356 expressed	AK030696	1.03062
Mus musculus zinc finger protein 341 (Znf341), mRNA [NM_199304]	NM_199304	-1.00124
Mus musculus NACHT, leucine rich repeat and PYD containing 10 (Nalp10), mF	NM_175532	1.03876
Mus musculus early B-cell factor 3 (Ebf3), mRNA [NM_010096]	NM_010096	1.03707
Mus musculus phospholipase C, zeta 1 (Plcz1), mRNA [NM_054066]	NM_054066	1.02975
Mus musculus vacuolar protein sorting 41 (yeast) (Vps41), mRNA [NM_172120]	NM_172120	-1.00903
Mus musculus RIKEN cDNA A630028O16 gene (A630028O16Rik), mRNA [NM_198638]	NM_198638	1
Transcription factor B1, mitochondrial	AK028212	-1.02644
Mus musculus disrupted in schizophrenia 1 (Disc1), mRNA [NM_174853]	NM_174853	1.14673
Mus musculus lipoprotein lipase (Lpl), mRNA [NM_008509]	NM_008509	-1.14145
Mus musculus WD repeat domain 37 (Wdr37), mRNA [NM_172445]	NM_172445	-1.07471
Mus musculus cDNA sequence BC003332 (BC003332), mRNA [NM_030260]	NM_030260	-1.26086
Ubiquitin specific protease 32	AK013783	1.14208
Mus musculus cDNA sequence BC038613 (BC038613), mRNA [NM_153784]	NM_153784	1.08394
RIKEN cDNA 4930502E18 gene	AK015678	1.13207
RIKEN cDNA 4930444P10 gene	AK015384	-1.03357
Mus musculus carnitine O-octanoyltransferase (Crot), mRNA [NM_023733]	NM_023733	-1.38855
Patatin-like phospholipase domain containing 5	AK014771	-1.04377
Mus musculus deoxyribonuclease 1-like 2 (Dnase1l2), mRNA [NM_025718]	NM_025718	1.08307
Mus musculus 5'-nucleotidase, cytosolic II (Nt5c2), mRNA [NM_029810]	NM_029810	1.01902
Mus musculus speckle-type POZ protein (Spop), mRNA [NM_025287]	NM_025287	1.03113
SRY-box containing gene 11	AK004158	-1.61428
Ubiquitin protein ligase E3 component n-recognin 1	AK078173	-1.32969
Mus musculus olfactory receptor 1090 (Olfr1090), mRNA [NM_146847]	NM_146847	1.0392
Mus musculus olfactory receptor 1123 (Olfr1123), mRNA [NM_146350]	NM_146350	1.06207
Unknown		1.06292
RIKEN cDNA 4930546C10 gene	AK019744	1.08598
Mus musculus RIKEN cDNA D330023L08 gene (D330023L08Rik), mRNA [NM_153391]	NM_153391	1.04037
Mus musculus RNA binding motif protein 5 (Rbm5), mRNA [NM_148930]	NM_148930	-1.07643
Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched library	AK041498	1.07921
Mus musculus amiloride-sensitive cation channel 1, neuronal (degenerin) (Accn	NM_007384	1.05511
Mus musculus trans-prenyltransferase (Tprt), mRNA [NM_019501]	NM_019501	1.05535
selenoprotein	NM_053102	-1.52808
Mus musculus RIKEN cDNA 2410024A21 gene (2410024A21Rik), mRNA [NM_029654]	NM_029654	-1.04589
Mus musculus dynein, cytoplasmic, light chain 2A (Dncl2a), mRNA [NM_025947]	NM_025947	-1.14534
Mus musculus solute carrier family 39 (metal ion transporter), member 6 (Slc39a	NM_139143	-1.37501
Mus musculus 2 days pregnant adult female oviduct cDNA, RIKEN full-length er	AK053947	1.0881
Mus musculus RIKEN cDNA 4933436I01 gene (4933436I01Rik), mRNA [NM_025763]	NM_025763	1.15989
Mus musculus cytochrome P450, family 2, subfamily d, polypeptide 10 (Cyp2d1)	NM_010005	1.01811
Mus musculus carbohydrate (chondroitin 6/keratan) sulfotransferase 4 (Chst4),	NM_011998	1.15366
Ribosomal protein S6 kinase polypeptide 1	BC058403	-1.07106
RIKEN cDNA 1500031N24 gene	BC026404	1.10385
Mus musculus Rho family GTPase 1 (Rnd1), mRNA [NM_172612]	NM_172612	-1.17118
RIKEN cDNA A430097D04 gene	AK079870	-1.02274
Mus musculus killer cell lectin-like receptor subfamily A, member 13 (Klra13), m	NM_010647	1.02545
Mus musculus zinc finger protein 358 (Zfp358), mRNA [NM_080461]	NM_080461	1.11402
Mus musculus ribophorin I (Rpn1), mRNA [NM_133933]	NM_133933	-1.03719

Nucleoporin 35	AK089997	-1.15583
Mus musculus solute carrier family 25 (mitochondrial carnitine/acylcarnitine tran: similar to spectrin beta 1	NM_020520 AK052321	-1.03439 -1.00061
Mus musculus tryptophan hydroxylase 1 (Tph1), mRNA [NM_009414]	NM_009414	1.15519
Mus musculus keratin associated protein 6-2 (Krtap6-2), mRNA [NM_010673]	NM_010673	-1.22794
Alcohol dehydrogenase, iron containing, 1	AK011866	1.0267
Mus musculus PAP associated domain containing 4 (Papd4), mRNA [NM_1339 NM_133905	NM_133905	-1.14908
Mus musculus protein kinase, cAMP dependent regulatory, type I, alpha (Prkar1 NM_021880	NM_021880	-1.65996
Mus musculus nurim (nuclear envelope membrane protein) (Nrm), mRNA [NM_ NM_134122	NM_134122	1.09546
junction-mediating and regulatory protein	NM_021310	1.11911
Mus musculus NK1 transcription factor related, locus 2 (Drosophila) (Nkx1-2), m NM_009123	NM_009123	1.07495
Elongation factor RNA polymerase II-like 3	AK044479	1.11421
OLFACTORY RECEPTOR MOR229-1. [Source:RefSeq;Acc:NM_146979] [ENSMUST0000005	NM_146979	1.10331
Mus musculus polymerase (DNA directed), delta 1, catalytic subunit (Pold1), mF NM_011131	NM_011131	1.0367
Mus musculus calcium channel, voltage-dependent, alpha2/delta subunit 1 (Cac NM_009784	NM_009784	1.36184
Mus musculus matrix metalloproteinase 17 (Mmp17), mRNA [NM_011846]	NM_011846	1.08722
RIKEN cDNA 6330416L07 gene	NM_176962	-1.72213
Mus musculus RIKEN cDNA 1110014P06 gene (1110014P06Rik), mRNA [NM_ NM_028634	NM_028634	1.01043
Mus musculus RIKEN cDNA 1700019D03 gene (1700019D03Rik), mRNA [NM_ NM_144953	NM_144953	1.01918
Mus musculus zinc finger protein 295 (Zfp295), mRNA [NM_175428]	NM_175428	-1.0536
Mus musculus complement component 2 (within H-2S) (C2), mRNA [NM_01348 NM_013484	NM_013484	-1.0438
Mus musculus myozenin 1 (Myoz1), mRNA [NM_021508]	NM_021508	-1.04099
Mus musculus selenoprotein P, plasma, 1 (Sepp1), mRNA [NM_009155]	NM_009155	-1.41002
Mus musculus olfactory receptor 46 (Olfr46), mRNA [NM_146934]	NM_146934	1.01692
Mus musculus stanniocalcin 1 (Stc1), mRNA [NM_009285]	NM_009285	-1.00614
Mus musculus chemokine-like factor super family 2A (Cklfsf2a), mRNA [NM_02 NM_027022	NM_027022	-1.10311
Mus musculus junctophilin 1 (Jph1), mRNA [NM_020604]	NM_020604	1.00706
RIKEN cDNA C130076O07 gene	AK048567	1.09094
Mus musculus ring finger and KH domain containing 3 (Rkhd3), mRNA [NM_17 NM_175366	NM_175366	-1.17729
Mus musculus inter-alpha trypsin inhibitor, heavy chain 3 (Itih3), mRNA [NM_00 NM_008407	NM_008407	1.10019
Mus musculus zinc finger protein 109 (Zfp109), mRNA [NM_020262]	NM_020262	1
Mus musculus transgene insert site 737, insertional mutation, polycystic kidney NM_009376	NM_009376	-1.03211
Mus musculus G protein-coupled receptor 81 (Gpr81), mRNA [NM_175520]	NM_175520	1.02712
RIKEN cDNA 4930505D03 gene	AK044521	1.11292
Mus musculus transmembrane phosphatase with tensin homology (Tpte), trans NM_199258	NM_199258	1.07331
Importin 7	AK048477	1.03131
Mus musculus chemokine (C-X-C motif) ligand 4 (Cxcl4), mRNA [NM_019932]	NM_019932	-1.17538
Transmembrane emp24 protein transport domain containing 7	BC018585	-1.16421
Mus musculus upstream transcription factor 2 (Usf2), mRNA [NM_011680]	NM_011680	1.25711
Mus musculus caspase recruitment domain family, member 14 (Card14), mRNA NM_130886	NM_130886	1.06115
Mus musculus RIKEN cDNA 6230410P16 gene (6230410P16Rik), mRNA [NM_ NM_174846	NM_174846	-1.02173
G protein-coupled receptor 155	BC026382	-1.58658
Mus musculus periostin, osteoblast specific factor (Postn), mRNA [NM_015784]	NM_015784	-1.46292
Mus musculus RIKEN cDNA 4930429J24 gene (4930429J24Rik), mRNA [NM_ NM_026132	NM_026132	1.04571
RIKEN cDNA 3100002H09 gene	AK013916	1.17381
Mus musculus E1A binding protein p400 (Ep400), mRNA [NM_029337]	NM_029337	1.05765
Mus musculus RIKEN cDNA 2810030C21 gene (2810030C21Rik), mRNA [XM_ XM_131566	XM_131566	-1.05356
RIKEN cDNA 1700029F09 gene	AK006487	-1.16422
Pancreatic lipase	AK007357	-1.07093
Mus musculus mitogen activated protein kinase 14 (Mapk14), mRNA [NM_0119 NM_011951	NM_011951	1.06266
RIKEN cDNA 2310066E14 gene	AK122573	1.05115
Mus musculus erythrocyte protein band 4.2 (Epb4.2), mRNA [NM_013513]	NM_013513	-1.02277

Mus musculus sirtuin 3 (silent mating type information regulation 2, homolog) 3 (NM_022433		-1.23258
Unknown		1.09088
Mus musculus RIKEN cDNA E330036I19 gene (E330036I19Rik), mRNA [NM_1 NM_144915		-1.08745
Mus musculus proteasome (prosome, macropain) subunit, alpha type 3 (Psm3 NM_011184		-1.32658
Polymerase (DNA directed), theta	AK020790	-1.01132
Mus musculus RIKEN cDNA 2310004K20 gene (2310004K20Rik), mRNA [NM_ NM_172702		1.03001
Mus musculus ficolin A (Fcna), mRNA [NM_007995]	NM_007995	1.04846
Mus musculus copine VII (Cpne7), mRNA [NM_170684]	NM_170684	1.11314
Mus musculus expressed sequence AW046014 (AW046014), mRNA [NM_1749 NM_174989		1.14024
Mus musculus X-prolyl aminopeptidase (aminopeptidase P) 2, membrane-bound NM_178074		-1.03295
Mus musculus 10 days embryo whole body cDNA, RIKEN full-length enriched lit AK011315		1.00553
Mus musculus hypothetical protein A130070M06 (A130070M06), mRNA [NM_1 NM_177666		1.07213
Mus musculus troponin T1, skeletal, slow (Tnnt1), mRNA [NM_011618]	NM_011618	-1.0037
Mus musculus RNA-binding region (RNP1, RRM) containing 1 (Rnpc1), mRNA [NM_019547		-1.14329
Mus musculus RIKEN cDNA 1110002H13 gene (1110002H13Rik), mRNA [NM_ NM_025376		1.11255
Mus musculus hypothetical protein 9130221N23 (9130221N23), mRNA [XM_13 XM_137497		1.12108
Inhibitor of DNA binding 3	NM_008321	-1.04297
testis specific protein, Ddc8	NM_021440	1.0189
Mus musculus Fer3-like (Drosophila) (Ferd3l), mRNA [NM_033522]	NM_033522	-1.20837
Mus musculus profilin 1 (Pfn1), mRNA [NM_011072]	NM_011072	1.19034
RIKEN cDNA 1700034J05 gene	AK076643	1.09701
0 day neonate thymus cDNA, RIKEN full-length enriched library, clone:A430097 AK079871		-1.02069
Max dimerization protein	AK031169	-1.06676
Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, c AK048034		1.11308
Carboxypeptidase B2 (plasma)	AK004045	-1.01363
Mus musculus olfactory receptor 494 (Olfr494), mRNA [NM_146737]	NM_146737	1.11062
Mus musculus RIKEN cDNA D330023I21 gene (D330023I21Rik), mRNA [NM_1 NM_153586		1.08975
Mus musculus sulfotransferase family 1A, phenol-preferring, member 2 (Sult1a2 NM_018751		1.0324
RIKEN cDNA D930046L20 gene	AK018295	1
Mus musculus ADP-ribosylation factor related protein 1 (Arfrp1), mRNA [NM_02 NM_029702		-1.52931
Mus musculus RIKEN cDNA 2610301B20 gene (2610301B20Rik), mRNA [NM_ NM_026005		-1.52118
Mus musculus forkhead box C2 (Foxc2), mRNA [NM_013519]	NM_013519	1.04234
Mus musculus adrenergic receptor, alpha 1b (Adra1b), mRNA [NM_007416]	NM_007416	-1.05696
Transcribed locus, moderately similar to XP_111357.3 PREDICTED: similar to l BE306420		-1.18722
Isocitrate dehydrogenase 1 (NADP+), soluble	NM_010497	-1.24539
RIKEN cDNA 4930406H16 gene	AK019568	1.06491
Mus musculus RIKEN cDNA 5330410G16 gene (5330410G16Rik), mRNA [NM_ NM_182991		1.14682
Mus musculus RIKEN cDNA E330005K07 gene (E330005K07Rik), mRNA [NM_ NM_177211		1.01709
Mus musculus Scm-like with four mbt domains 2 (Sfmbt2), mRNA [NM_177386] NM_177386		1.02993
Mus musculus creatine kinase, brain (Ckb), mRNA [NM_021273]	NM_021273	1.14004
Mus musculus solute carrier family 30 (zinc transporter), member 2 (Slc30a2), n XM_131731		-1.02341
Mus musculus peptidylprolyl isomerase D (cyclophilin D) (Ppid), mRNA [NM_02 NM_026352		-1.70627
hypothetical protein A230091H23	NM_177829	1
Olfactory receptor 48	AF102522	1.0369
Mus musculus tumor necrosis factor (ligand) superfamily, member 8 (Tnfsf8), m NM_009403		1.05139
Mus musculus expressed sequence AW456874 (AW456874), mRNA [NM_2072 NM_207232		-1.15065
Mus musculus Kv channel interacting protein 4 (Kcnip4), mRNA [NM_030265]	NM_030265	1.01918
Mus musculus TBC1 domain family, member 7 (Tbc1d7), mRNA [NM_025935]	NM_025935	-1.06582
Mus musculus Sel1 (suppressor of lin-12) 1 homolog (C. elegans) (Sel1h), mRN NM_011344		-1.08651
Mus musculus interleukin 1 family, member 5 (delta) (Il1f5), mRNA [NM_019451 NM_019451		1.06367
Mus musculus thioesterase, adipose associated (Thea), mRNA [NM_025590]	NM_025590	1.091
Mus musculus transcription factor 2 (Tcf2), mRNA [NM_009330]	NM_009330	1.14412

Nkx-5.2=NK-related homeobox gene [mice, E11.5 embryos, mRNA Partial, 148; S80989		1.11427
Mus musculus RIKEN cDNA 4930524H12 gene (4930524H12Rik), mRNA [NM_	NM_025789	-1.16525
Mus musculus RIKEN cDNA 6430571L13 gene (6430571L13Rik), mRNA [NM_	NM_175486	-1.16543
Mus musculus RIKEN cDNA 4933417K04 gene (4933417K04Rik), mRNA [NM_	NM_153518	1.04481
RRN3 RNA polymerase I transcription factor homolog (yeast)	BC055781	-1.32815
Mus musculus RIKEN cDNA 0610009B22 gene (0610009B22Rik), mRNA [NM_	NM_025319	-1.37743
Mus musculus RIKEN cDNA 1110061O04 gene (1110061O04Rik), mRNA [NM_	NM_026849	1.0354
Mus musculus RIKEN cDNA 1700011J18 gene (1700011J18Rik), mRNA [NM_	NM_145692	-1.05324
Chimerin (chimaerin) 2	AK030336	1.00906
Mus musculus RIKEN cDNA B230312A22 gene (B230312A22Rik), mRNA [NM_	NM_172691	1.10012
Mus musculus zinc finger protein 189 (Zfp189), mRNA [NM_145547]	NM_145547	-1.74281
Mus musculus adenylate kinase 3 alpha-like (Ak3l), mRNA [NM_021299]	NM_021299	-1.1721
Mus musculus zinc finger, FYVE domain containing 21 (Zfyve21), mRNA [NM_	NM_026752	-1.2421
Expressed sequence AI894139	AK039184	-1.14164
Solute carrier family 4, sodium bicarbonate transporter-like, member 11	BC036154	1.05242
Mus musculus RIKEN cDNA 1700019I23 gene (1700019I23Rik), mRNA [NM_	NM_025496	1.14951
RIKEN cDNA C130038G02 gene	AK019985	1.10386
RasGEF domain family, member 1C	AK018593	1.12332
Mus musculus F-box only protein 5 (Fbxo5), mRNA [NM_025995]	NM_025995	-1.11862
Mus musculus ketohexokinase (Khk), mRNA [NM_008439]	NM_008439	-1.12549
Expressed sequence AU041707	NM_018743	1.07909
Polycomb group ring finger 6	NM_027654	-1.03466
Mus musculus RIKEN cDNA C330018L13 gene (C330018L13Rik), mRNA [NM_	NM_080562	1.00144
Mus musculus SH3 domain and tetratricopeptide repeats 1 (Sh3tc1), mRNA [NM_	NM_194344	-1.14507
RIKEN cDNA 2200002K05 gene	BC055786	1.34361
Mus musculus response to metastatic cancers 1 (Rmcs1), mRNA [NM_207105]	NM_207105	1.26013
Mus musculus adult male spinal cord cDNA, RIKEN full-length enriched library,	AK039370	1.02332
Zinc finger protein 142	AF332092	1.00792
RIKEN cDNA 1600023N17 gene	AJ237585	1.05259
Mus musculus RIKEN cDNA B930008I02 gene (B930008I02Rik), mRNA [NM_	NM_175430	1.18275
Mus musculus RIKEN cDNA 6330581L23 gene (6330581L23Rik), mRNA [NM_	NM_146185	-1.20864
RIKEN cDNA 2610021K21 gene	AK011507	-1.25834
Mus musculus RIKEN cDNA 1700018B24 gene (1700018B24Rik), mRNA [NM_	NM_025493	1.09837
Mus musculus eukaryotic translation initiation factor 3, subunit 4 (delta) (Eif3s4),	NM_016876	1.06203
Mus musculus translocase of inner mitochondrial membrane 8 homolog b (yeast)	NM_013897	-1.32977
16 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A1300	AK037643	-1.02402
RIKEN cDNA 2600003E23 gene	AK129483	-1.16615
Expressed sequence AI593442	AK031845	1.04798
Unknown		1.03554
Mus musculus MAD homolog 5 (Drosophila) (Smad5), mRNA [NM_008541]	NM_008541	1.13702
Mus musculus tumor necrosis factor receptor superfamily, member 1b (Tnfrsf1b)	NM_011610	1.03739
Mus musculus RIKEN cDNA 4930511J11 gene (4930511J11Rik), mRNA [NM_	NM_029070	-1.00724
Trypsin domain containing 1	AK005069	-1.01339
Mus musculus U7 snRNP-specific Sm-like protein LSM10 (Lsm10), mRNA [NM_	NM_138721	-1.15184
Mus musculus serine (or cysteine) proteinase inhibitor, clade F, member 1 (Serp	NM_011340	-1.13009
Mus musculus vomeronasal 1 receptor, D2 (V1rd2), mRNA [NM_030741]	NM_030741	1.0418
Mus musculus expressed sequence AA589481 (AA589481), mRNA [NM_17216	NM_172162	1.04684
Mus musculus potassium voltage-gated channel, shaker-related subfamily, beta	NM_010597	-1.00556
Hypothetical protein B930099G20	AK013700	-1.18969
Mus musculus olfactory receptor 1221 (Olfr1221), mRNA [NM_146902]	NM_146902	1.00747
RIKEN cDNA D630042P16 gene	NM_175525	-1.13731
Interleukin 1 receptor accessory protein-like 1	AK081272	1.09095

Mus musculus interferon gamma (Ifng), mRNA [NM_008337]	NM_008337	-1.01993
Mus musculus RIKEN cDNA C730027E14 gene (C730027E14Rik), mRNA [NM_NM_146020]	NM_NM_146020	-1.02751
Mus musculus RIKEN cDNA 6720463E02 gene (6720463E02Rik), mRNA [NM_NM_026556]	NM_NM_026556	-1.18965
Mus musculus Iroquois related homeobox 2 (Drosophila) (Irx2), mRNA [NM_01010574]	NM_01010574	1.00026
Mus musculus Janus kinase 2 (Jak2), mRNA [NM_008413]	NM_008413	1.02695
Mus musculus RIKEN cDNA 4921522K05 gene (4921522K05Rik), mRNA [NM_NM_026489]	NM_NM_026489	-1.00324
Mus musculus RIKEN cDNA C330016O16 gene (C330016O16Rik), mRNA [NM_NM_198013]	NM_NM_198013	1.34971
RIKEN cDNA 2410008K03 gene	BC039988	1.09232
Mus musculus ribosomal protein S13 (Rps13), mRNA [NM_026533]	NM_026533	-1.20971
Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched li	AK081163	1.03411
RIKEN cDNA A230055J12 gene	AK045510	-1.04787
BC022110 aminolevulinic acid synthase 1 {Mus musculus}, partial (5%) [TC1048789]		-1.1017
Lipase, member H	NM_153404	1.07158
Potassium channel tetramerisation domain containing 1	BC022615	-1.29182
Mus musculus zinc finger protein 307 (Zfp307), mRNA [NM_023685]	NM_023685	-1.07284
Mus musculus kelch-like 1 (Drosophila) (Klhl1), mRNA [NM_053105]	NM_053105	-1.02548
Mus musculus strain BALB/c 60S acidic ribosomal protein P0 mRNA, partial cds	U89419	-1.17372
Mus musculus RIKEN cDNA 6030463G20 gene (6030463G20Rik), mRNA [NM_NM_173414]	NM_NM_173414	-1.00402
Mus musculus brain derived neurotrophic factor (Bdnf), mRNA [NM_007540]	NM_007540	1.01976
Mus musculus v-crk sarcoma virus CT10 oncogene homolog (avian)-like (Crkl),	NM_007764	1.22554
Secreted phosphoprotein 1	NM_009263	-1.37202
Acyl-CoA synthetase long-chain family member 6	NM_144823	1.05905
hypothetical protein D030056L22	NM_177640	-1.08623
Mus musculus RIKEN cDNA 2210008A03 gene (2210008A03Rik), mRNA [NM_NM_027299]	NM_NM_027299	1.07224
Oligodendrocyte transcription factor 2	NM_016967	1.1794
Mus musculus prenylcysteine oxidase 1 (Pcyox1), mRNA [NM_025823]	NM_025823	-1.28453
Mus musculus stomatin (Epb7.2)-like 2 (Stoml2), mRNA [NM_023231]	NM_023231	-1.11388
Mus musculus DNA segment, Chr 6, Miriam Meisler 5, expressed (D6Mm5e), m	NM_033079	1.1272
Mus musculus aminolevulinic acid synthase 2, erythroid (Alas2), mRNA [NM_009653]	NM_009653	-1.02017
Mus musculus RIKEN cDNA 1700056O17 gene (1700056O17Rik), mRNA [NM_NM_026101]	NM_NM_026101	-1.23655
Mus musculus olfactory receptor 574 (Olfr574), mRNA [NM_146360]	NM_146360	-1.17776
Ig rearranged H-chain mRNA V-region	AF006582	1.2688
RIKEN cDNA 5330427D05 gene	AK030527	1.0539
Mus musculus RIKEN cDNA A030005K14 gene (A030005K14Rik), mRNA [NM_NM_030005]	NM_NM_030005	1.03764
Mus musculus cDNA sequence BC049806 (BC049806), mRNA [NM_172513]	NM_172513	-1.10975
RIKEN cDNA 2310043D08 gene	AK009772	1.04311
LOC433897	AK017885	1.02976
Mus musculus ocular development associated gene (Odag), mRNA [NM_026033]	NM_026033	-1.24404
RIKEN cDNA 1700071E18 gene	AK006929	1.05841
BCL2-associated transcription factor 1	AK129071	-1.54694
Mus musculus glomulin, FKBP associated protein (Glmn), mRNA [NM_133248]	NM_133248	-1.3055
Mus musculus interleukin-1 receptor-associated kinase 1 binding protein 1 (Irak	NM_022986	-1.48496
Mus musculus RIKEN cDNA 1200009F10 gene (1200009F10Rik), mRNA [NM_NM_026166]	NM_NM_026166	-1.26628
Transmembrane emp24 protein transport domain containing 5	NM_028876	-1.50871
RIKEN cDNA 2610034M16 gene	AK011672	1.00635
Mus musculus cAMP responsive element binding protein 3-like 4 (Creb3l4), mR	NM_030080	-1.06578
Mus musculus cyclin B2 (Ccnb2), mRNA [NM_007630]	NM_007630	-1.08601
RIKEN cDNA E030049G20 gene	AK053243	-1.37017
Mus musculus RIKEN cDNA 5730405I09 gene (5730405I09Rik), mRNA [NM_026484]	NM_026484	-1.13149
Mus musculus a disintegrin and metalloprotease domain 26 (testase 3) (Adam21	NM_010085	1.11785
C1GALT1-specific chaperone 1	NM_021550	-1.54996
Complement component factor h	M12660	-1.5868

Mus musculus copine III (Cpne3), mRNA [NM_027769]	NM_027769	-1.03601
Mus musculus anaplastic lymphoma kinase (Alk), mRNA [NM_007439]	NM_007439	1.05709
Mus musculus RIKEN cDNA 1110004E09 gene (1110004E09Rik), mRNA [NM_026502]	NM_026502	-1.03096
Mus musculus WD repeat domain 17 (Wdr17), mRNA [NM_028220]	NM_028220	-1.02038
Mus musculus tetratricopeptide repeat domain 14 (Ttc14), mRNA [NM_025978]	NM_025978	-1.06433
TAO kinase 1	BC019960	-1.44863
RIKEN cDNA 1700026P10 gene	NM_027304	-1.02416
Mus musculus cDNA sequence BC019693 (BC019693), mRNA [NM_144835]	NM_144835	-1.16921
Mus musculus ATPase, H+ transporting, V1 subunit G, isoform 3 (Atp6v1g3), mRNA [NM_177397]	NM_177397	1
Mus musculus apolipoprotein B (Apob), mRNA [XM_137955]	XM_137955	1.06171
Mus musculus RIKEN cDNA 5730496F10 gene (5730496F10Rik), mRNA [XM_131212]	XM_131212	1.04184
Mus musculus chemokine (C-X3-C) receptor 1 (Cx3cr1), mRNA [NM_009987]	NM_009987	1.13489
Mus musculus vomeronasal 1 receptor, A9 (V1ra9), mRNA [NM_053224]	NM_053224	1.10837
Mus musculus tRNA isopentenyltransferase 1 (Trit1), mRNA [NM_025873]	NM_025873	-1.00381
Mus musculus RIKEN cDNA 1110031I02 gene (1110031I02Rik), mRNA [NM_025402]	NM_025402	-1.18367
Mus musculus mitochondrial ribosomal protein L35 (Mrpl35), mRNA [NM_025430]	NM_025430	1.02147
Mus musculus cholecystokinin (Cck), mRNA [NM_031161]	NM_031161	1.04059
Mus musculus calponin 1 (Cnn1), mRNA [NM_009922]	NM_009922	-1.14863
Adducin 2 (beta)	AK013768	1.09853
Mus musculus RIKEN cDNA 4932415G12 gene (4932415G12Rik), mRNA [NM_026339]	NM_026339	-1.08177
Mus musculus cadherin 1 (Cdh1), mRNA [NM_009864]	NM_009864	-1.29748
RIKEN cDNA 2310047B19 gene	AK014010	1.0681
Mus musculus synuclein, alpha interacting protein (synphilin) (Sncaip), mRNA [NM_026408]	NM_026408	1.17503
RIKEN cDNA A930003A15 gene	AK020919	-1.46188
Mus musculus RIKEN cDNA 2610318K02 gene (2610318K02Rik), mRNA [NM_026519]	NM_026519	-1.25682
Mus musculus RIKEN cDNA 9030605H24 gene (9030605H24Rik), mRNA [NM_176999]	NM_176999	1.0027
Mus musculus protein tyrosine phosphatase, receptor type, T (Ptprt), mRNA [NM_021464]	NM_021464	1.02639
RIKEN cDNA 4930453L07 gene	AK015455	1.06677
Mus musculus Max dimerization protein 4 (Mxd4), mRNA [NM_010753]	NM_010753	1.00304
Histone 4, H4	AK045187	-1.24366
Mus musculus RIKEN cDNA 1200015A19 gene (1200015A19Rik), mRNA [NM_026388]	NM_026388	-1.26863
Mus musculus RIKEN cDNA 8430427H17 gene (8430427H17Rik), mRNA [NM_00100198]	NM_00100198	1.28127
Mus musculus RIKEN cDNA 1700019E19 gene (1700019E19Rik), mRNA [NM_029601]	NM_029601	-1.1931
Mus musculus fibroblast growth factor 1 (Fgf1), mRNA [NM_010197]	NM_010197	1.07668
Mus musculus solute carrier family 22 (organic cation transporter), member 18 (Slc22a18), mRNA [NM_008767]	NM_008767	-1.02188
Mus musculus cholecystokinin B receptor (Cckbr), mRNA [NM_007627]	NM_007627	1.06802
Mus musculus microsomal glutathione S-transferase 3 (Mgst3), mRNA [NM_025569]	NM_025569	-1.12663
Mus musculus aryl hydrocarbon receptor-interacting protein-like 1 (Aipl1), mRNA [NM_053245]	NM_053245	1.00321
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 54 (Ddx54), mRNA [NM_028041]	NM_028041	1.10792
Mus musculus RIKEN cDNA 0610038F07 gene (0610038F07Rik), mRNA [NM_025333]	NM_025333	-1.28237
Mus musculus kallikrein 5 (Klk5), mRNA [NM_008456]	NM_008456	1.05244
Expressed sequence AI464131	BC036141	1.10657
Mus musculus lymphocyte antigen 6 complex, locus E (Ly6e), mRNA [NM_008529]	NM_008529	-1.08722
Mus musculus killer cell lectin-like receptor, subfamily A, member 18 (Klra18), mRNA [NM_053153]	NM_053153	1.11541
Mus musculus RIKEN cDNA 1110017C15 gene (1110017C15Rik), mRNA [NM_025391]	NM_025391	-1.3881
Mus musculus olfactory receptor 866 (Olfr866), mRNA [NM_146558]	NM_146558	1.1228
RIKEN cDNA 2310047H23 gene	AK079517	-1.46681
Mus musculus RIKEN cDNA 2810004A10 gene (2810004A10Rik), mRNA [NM_027265]	NM_027265	-1.23356
RIKEN cDNA 3200001K10 gene	AK078210	-1.13377
Mus musculus procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1 (Plod1), mRNA [NM_011122]	NM_011122	1.1841
Calcium response factor	AK045594	1
Mus musculus fractured callus expressed transcript 1 (Fxc1), mRNA [NM_019502]	NM_019502	-1.14659

Mus musculus RIKEN cDNA 1700020F09 gene (1700020F09Rik), mRNA [NM_026619]	1.05658
RIKEN cDNA 5430401F13 gene	AK017253 -1.05108
Mus musculus rhomboid, veinlet-like 6 (<i>Drosophila</i>) (Rhbdl6), mRNA [NM_172517:NM_172572]	1.12645
Mus musculus RIKEN cDNA 4930517I18 gene (4930517I18Rik), mRNA [NM_175214]	1.08768
Mus musculus hyaluronan and proteoglycan link protein 1 (Hapln1), mRNA [NM_013500]	-1.04531
Mus musculus UDP-glucose ceramide glucosyltransferase-like 1 (Ugcgl1), mRNA [NM_198899]	1.23132
Mindbomb homolog 1 (<i>Drosophila</i>)	AK047455 1.00008
SCY1-like 2 (<i>S. cerevisiae</i>)	AK052108 1.0691
Synaptojanin 1	AK080946 1.0388
Mus musculus chloride channel, nucleotide-sensitive, 1A (Clns1a), mRNA [NM_023671]	-1.0604
Mus musculus RIKEN cDNA 2610511F20 gene (2610511F20Rik), mRNA [XM_126674]	1.00612
Doublecortin and CaM kinase-like 2	NM_027539 1.05306
Mus musculus similar to Aldo-keto reductase family 1 member C13 (LOC23846)	XM_138403 -1.0069
Mus musculus mitochondrial ribosomal protein L55 (Mrpl55), mRNA [NM_026033:NM_026035]	-1.09245
Mus musculus RAB5B, member RAS oncogene family (Rab5b), mRNA [NM_011229]	-1.28881
Mus musculus phytanoyl-CoA hydroxylase (Phyh), mRNA [NM_010726]	NM_010726 -1.73722
Mus musculus RIKEN cDNA 1010001D01 gene (1010001D01Rik), mRNA [NM_133186]	1.06642
Mus musculus RIKEN cDNA A930021H16 gene (A930021H16Rik), mRNA [NM_174850]	1.05573
Mus musculus Epstein-Barr virus induced gene 2 (Ebi2), mRNA [NM_183031]	NM_183031 -1.12024
Mus musculus potassium voltage-gated channel, Shal-related family, member 2	NM_019697 1.03006
RIKEN cDNA B130050I23 gene	AK045240 1.0175
Mus musculus RIKEN cDNA C530046K17 gene (C530046K17Rik), mRNA [NM_146090]	-1.32676
Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 32 (Dhx32), mRNA [NM_133941]	-1.02197
Cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	U19596 -1.16376
Zinc finger protein 318	AK011661 -1.08625
Mus musculus solute carrier family 38, member 2 (Slc38a2), mRNA [NM_175121]	NM_175121 -1.01687
Mus musculus mRNA for mszf85, partial cds.	AB010343 -1.53694
Mus musculus general transcription factor II A, 2 (Gtf2a2), mRNA [NM_199151]	NM_199151 -1.27157
Mus musculus RIKEN cDNA 8430406I07 gene (8430406I07Rik), mRNA [NM_028984]	-1.37745
Mus musculus protocadherin 8 (Pcdh8), mRNA [NM_021543]	NM_021543 1.05687
Ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast)	AK020443 -1.28495
Mus musculus fat specific gene 27 (Fsp27), mRNA [NM_178373]	NM_178373 -1.09039
Mus musculus retinal degeneration, slow (retinitis pigmentosa 7) (Rds), mRNA [NM_008938]	1.05602
Mus musculus cytochrome P450, family 3, subfamily a, polypeptide 25 (Cyp3a2)	NM_019792 1.03364
Mus musculus follistatin-like 1 (Fstl1), mRNA [NM_008047]	NM_008047 1.00915
Mus musculus RAB geranylgeranyl transferase, b subunit (Rabggtb), mRNA [NM_011231]	-1.23068
RIKEN cDNA 4930503E24 gene	AK015688 1.04415
Mus musculus 1-acylglycerol-3-phosphate O-acyltransferase 3 (Acp3), mRNA [NM_053014]	-1.17909
Mus musculus RIKEN cDNA 4833432M17 gene (4833432M17Rik), mRNA [NM_198654]	1.03653
DNA Segment, Chr 15 Massachusetts Institute of Technology 260	AK129419 -1.33232
De-etiolated homolog 1 (<i>Arabidopsis</i>)	NM_029585 1.07576
Mus musculus hematopoietic cell specific Lyn substrate 1 (Hcls1), mRNA [NM_008225]	-1.05211
Mus musculus cyclin A1 (Ccn1), mRNA [NM_007628]	NM_007628 1.01892
Mus musculus Down syndrome critical region gene 3 (Dscr3), mRNA [NM_007834]	NM_007834 -1.19945
Mus musculus cystatin 9 (Cst9), mRNA [NM_009979]	NM_009979 -1.28423
Mus musculus SH3-domain GRB2-like endophilin B2 (Sh3glb2), mRNA [NM_13139302]	1.17
Mus musculus mitogen-activated protein kinase kinase kinase 7 interacting protein R3H domain (binds single-stranded nucleic acids)	NM_025609 -1.05327
	AK051765 -1.0216
Mus musculus cytochrome P450, family 11, subfamily b, polypeptide 2 (Cyp11b)	NM_009991 -1.00648
Mus musculus beclin 1 (coiled-coil, myosin-like BCL2-interacting protein) (Becn1)	NM_019584 -1.03788
Mus musculus tektin 2 (Tek2), mRNA [NM_011902]	NM_011902 -1.15786
Mus musculus calcium channel, voltage-dependent, beta 3 subunit (Cacnb3), mRNA [NM_007581]	-1.15226

Prolactin-like protein N	AF525156	1
HYALURONIC ACID BINDING PROTEIN 2; HYADURONIC ACID-BINDING PROTEIN 2. [Sou		1.24475
RIKEN cDNA 5830461H18 gene	AK018024	-1.05419
Mus musculus RIKEN cDNA 1700042N06 gene (1700042N06Rik), mRNA [NM_	NM_026090	1.03986
RIKEN cDNA 5430405G24 gene	BC035255	1.34087
Mus musculus olfactory receptor 1045 (Olfr1045), mRNA [NM_147017]	NM_147017	-1.02063
Mus musculus gamma-aminobutyric acid (GABA-A) receptor, subunit gamma 1	NM_010252	1.01961
Mus musculus guanylate nucleotide binding protein 2 (Gbp2), mRNA [NM_0102	NM_010260	1.04111
Mus musculus apolipoprotein A-I binding protein (Apoa1bp), mRNA [NM_14489	NM_144897	-1.14335
Mus musculus sorcin (Sri), mRNA [NM_025618]	NM_025618	-1.46834
RIKEN cDNA 9130023F12 gene	AK035265	1.02876
Mus musculus scinderin (Scin), mRNA [NM_009132]	NM_009132	1.03581
Mus musculus zinc finger protein 31 (Zfp31), mRNA [NM_177758]	NM_177758	-1.21927
Mus musculus protein phosphatase 3, catalytic subunit, beta isoform (Ppp3cb),	NM_008914	1.0291
Mus musculus nuclear transcription factor-Y beta (Nfyb), mRNA [NM_010914]	NM_010914	-1.12848
Mus musculus RIKEN cDNA 4921536K21 gene (4921536K21Rik), mRNA [NM_	NM_026150	1.10214
RIKEN cDNA C330002I19 gene	BC030876	-1.005
Mus musculus CCCTC-binding factor (Ctcf), mRNA [NM_007794]	NM_007794	-1.77523
Myosin IE	BC051391	1.03265
RIKEN cDNA 5830472M02 gene	AK052794	-1.04707
RIKEN cDNA 1700010H15 gene	AK005826	-1.11396
Lupus brain antigen 1	AK021160	1.03898
Mus musculus RIKEN cDNA 1810037K07 gene (1810037K07Rik), mRNA [NM_	NM_025962	-1.08685
Mus musculus RIKEN cDNA 1810055G02 gene (1810055G02Rik), mRNA [NM_	NM_028077	1.1767
PAP associated domain containing 1	AK002680	-1.18437
Mus musculus 10 day old male pancreas cDNA, RIKEN full-length enriched libr	AK007819	-1.12173
Mus musculus solute carrier family 37 (glycerol-3-phosphate transporter), mem	NM_028123	-1.33046
Mus musculus maternal embryonic leucine zipper kinase (Melk), mRNA [NM_01	NM_010790	-1.00855
Mus musculus retina and anterior neural fold homeobox (Rax), mRNA [NM_013	NM_013833	-1.03798
Transmembrane protein 2	NM_031997	1.18746
Mus musculus RAB guanine nucleotide exchange factor (GEF) 1 (Rabgef1), mR	NM_019983	-1.05184
Frataxin pseudogene, complete sequence	AF223568	1.02988
Mus musculus laminin gamma 3 (Lamc3), mRNA [NM_011836]	NM_011836	1.05161
Unknown		-1.05608
Mus musculus DNA segment, Chr 15, Wayne State University 75, expressed (D	NM_134095	-1.0831
Mus musculus olfactory receptor 476 (Olfr476), mRNA [NM_146924]	NM_146924	-1.1614
Leucine zipper, down-regulated in cancer 1	BC052689	1.00517
Leucine-rich PPR-motif containing	AK039751	1.07484
Mus musculus adenylate cyclase 7 (Adcy7), mRNA [NM_007406]	NM_007406	-1.03446
Mus musculus pellino 2 (Peli2), mRNA [NM_033602]	NM_033602	-1.35381
Mus musculus RIKEN cDNA 4930432E11 gene (4930432E11Rik), mRNA [NM_	NM_172897	1.02204
Mus musculus RIKEN cDNA 4930448F12 gene (4930448F12Rik), mRNA [XM_	XM_127223	1.02106
Mus musculus latent transforming growth factor beta binding protein 3 (Ltbp3), r	NM_008520	1.18563
RIKEN cDNA A730059M13 gene	AK053479	-1.01163
Mus musculus calcium binding protein 2 (Cabp2), mRNA [NM_013878]	NM_013878	-1.03858
Mus musculus GrpE-like 1, mitochondrial (Grpel1), mRNA [NM_024478]	NM_024478	-1.12291
Mus musculus olfactory receptor 267 (Olfr267), mRNA [NM_146920]	NM_146920	1.08214
Mus musculus adult male kidney cDNA, RIKEN full-length enriched library, clon	AK002875	1.08358
Mus musculus core-binding factor, runt domain, alpha subunit 2, translocated to	NM_009824	1.65765
Mus musculus LIM domain only 3 (Lmo3), mRNA [NM_207222]	NM_207222	-1.03576
Mus musculus spermiogenesis specific transcript on the Y 2 (Ssty2), mRNA [NM	NM_023546	1.01478
similar to selenoprotein W	NM_175033	-1.13203

P300/CBP-associated factor	AK030070	-1.05563
Mus musculus RIKEN cDNA 4932432N11 gene (4932432N11Rik), mRNA [NM_	NM_028904	-1.64402
Mus musculus retinitis pigmentosa GTPase regulator interacting protein 1 (Rpgr	NM_023879	-1.03418
Mus musculus putative myelin regulatory factor 1 mRNA, partial cds.	U14648	-1.17181
Tensin	BC052740	1.05911
RIKEN cDNA 4933425K02 gene	AK029525	1.05684
Mus musculus spermiogenesis specific transcript on the Y 1 (Ssty1), mRNA [NM	NM_009220	1.11374
Mus musculus aarF domain containing kinase 5 (Adck5), mRNA [NM_172960]	NM_172960	1.02868
Mus musculus RIKEN cDNA 2210402C18 gene (2210402C18Rik), mRNA [NM_	NM_027309	-1.265
RIKEN cDNA D430018E03 gene	AK049302	1.08694
Mus musculus hypothetical protein C230017K02 (C230017K02), mRNA [XM_12	XM_129785	-1.08749
Mus musculus kinesin family member 21A (Kif21a), mRNA [NM_016705]	NM_016705	1.00416
Integrin alpha 6	BC024571	-1.11223
RIKEN cDNA A730056A06 gene	AK043101	1.05706
Mus musculus platelet derived growth factor, B polypeptide (Pdgfb), mRNA [NM	NM_011057	1.21796
MKIAA0231 protein	AK054249	1.05161
Mus musculus ectodysplasin A2 isoform receptor (Xedar), mRNA [NM_175540]	NM_175540	1.01398
Mus musculus hypothetical protein 4933430J11 (4933430J11), mRNA [NM_172	NM_172808	1.14476
Diacylglycerol kinase, delta	AK014745	1.02743
Mus musculus proline dehydrogenase (oxidase) 2 (Prodh2), mRNA [NM_01954	NM_019546	1.02049
RIKEN cDNA 4930438A08 gene	AK015331	-1.35393
Mus musculus docking protein 5 (Dok5), mRNA [NM_029761]	NM_029761	1.07427
Unknown		-1.00071
Mus musculus clusterin (Clu), mRNA [NM_013492]	NM_013492	-1.02499
Mus musculus solute carrier family 30 (zinc transporter), member 3 (Slc30a3), n	NM_011773	1.1636
RIKEN cDNA D730027C18 gene	AK015282	1.03464
Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 36 (Dhx36), mRNA [NM	NM_028136	-1.14229
Similar to Nucleoporin 50 kDa (Nuclear pore-associated protein 60 kDa-like) (PF	AK018983	1.14346
Mus musculus adult male brain cDNA, RIKEN full-length enriched library, clone:	AK014392	1.03803
RIKEN cDNA A830006F12 gene	AK080585	1.01764
Zinc finger, CW-type with coiled-coil domain 1	AK038096	1
Mus musculus ZW10 homolog (Drosophila), centromere/kinetochore protein (Zw	NM_012039	-1.07289
Mus musculus nucleolar protein family A, member 1 (H/ACA small nucleolar RN	NM_026578	-1.35624
Mus musculus cDNA sequence BC010462 (BC010462), mRNA [NM_145373]	NM_145373	1.04464
RIKEN cDNA 4932442K08 gene	BC066088	-1.01129
Mus musculus vacuolar protein sorting 45 (yeast) (Vps45), mRNA [NM_013841]	NM_013841	1.02878
Mus musculus RIKEN cDNA 2700087H15 gene (2700087H15Rik), mRNA [NM_	NM_027422	-1.07291
Kelch-like 5 (Drosophila)	BC057606	-1.31459
Mus musculus leucine-rich repeat-containing 10 (Lrrc10), mRNA [NM_146242]	NM_146242	-1.04203
Expressed sequence AU016693	AK038916	1.22288
RIKEN cDNA 1700047I17 gene	AK021321	1.0121
Mus musculus RIKEN cDNA 1700028N11 gene (1700028N11Rik), mRNA [NM_	NM_029341	-1.59227
Mus musculus serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), me	NM_172852	-1.03861
Mus musculus phospholipase C, epsilon 1 (Plce1), mRNA [NM_019588]	NM_019588	-1.04711
RIKEN cDNA 1700020C07 gene	AK006145	-1.01107
RIKEN cDNA 2700049A03 gene	AK040605	1
Mus musculus cytochrome P450, family 2, subfamily j, polypeptide 6 (Cyp2j6), n	NM_010008	-1.17823
Mus musculus somatostatin (Sst), mRNA [NM_009215]	NM_009215	1.06846
Cyclin-dependent kinase inhibitor 3	AK033341	1
Mus musculus RIKEN cDNA 1700021K02 gene (1700021K02Rik), mRNA [NM_	NM_023064	1.04242
Mus musculus solute carrier family 27 (fatty acid transporter), member 2 (Slc27	NM_011978	1.07941
Mus musculus olfactory receptor 978 (Olfr978), mRNA [NM_147105]	NM_147105	1.07557

Mus musculus discs, large homolog 2 (Drosophila) (Dlgh2), mRNA [NM_011807]	NM_011807	-1.09696
RIKEN cDNA 1700011I03 gene	AK005868	1.01305
Mus musculus human papillomavirus 18 E5 central sequence motif gene 2 (Hpv)	NM_008283	-1.0296
Mus musculus chemokine (C-C motif) ligand 28 (Ccl28), mRNA [NM_020279]	NM_020279	-1.00751
Mus musculus uroplakin 2 (Upk2), mRNA [NM_009476]	NM_009476	1.03503
Mus musculus sal-like 2 (Drosophila) (Sall2), mRNA [NM_015772]	NM_015772	-1.20016
Mus musculus histidine-rich glycoprotein (Hrg), mRNA [NM_053176]	NM_053176	1.30275
Androgen binding protein beta	NM_203502	1.05161
Mus musculus insulinoma-associated 1 (Insm1), mRNA [NM_016889]	NM_016889	1.13106
Mus musculus Rho-associated coiled-coil forming kinase 2 (Rock2), mRNA [NM_009072]	NM_009072	1.01021
Rap guanine nucleotide exchange factor (GEF) 6	BC019702	1.14723
Mus musculus eukaryotic translation initiation factor 2 alpha kinase 3 (Eif2ak3),	NM_010121	-1.18561
RIKEN cDNA 4930404L01 gene	AK029583	-1.02329
Mus musculus splicing factor 3a, subunit 3 (Sf3a3), mRNA [NM_029157]	NM_029157	-1.34893
Mus musculus SMC2 structural maintenance of chromosomes 2-like 1 (yeast) (S	NM_008017	-1.04618
Mus musculus aldehyde dehydrogenase 3 family, member B1 (Aldh3b1), mRNA	NM_026316	-1.06609
Mus musculus RAB24, member RAS oncogene family (Rab24), mRNA [NM_009000]	NM_009000	-1.08418
Meiosis defective 1	AY270177	1.10266
Mus musculus heat shock protein 12B (Hspa12b), mRNA [NM_028306]	NM_028306	1.02347
Mus musculus nephronophthisis 4 (juvenile) homolog (human) (Nphp4), mRNA	NM_153424	1.04439
RIKEN cDNA A830012C17 gene	AK043612	-1.00185
RIKEN cDNA 1700081D17 gene	AK006964	1
Mus musculus zinc finger protein 297B (Zfp297b), mRNA [NM_027947]	NM_027947	1.26979
Mus musculus NIMA (never in mitosis gene a)-related expressed kinase 3 (Nek)	NM_011848	-1.17618
Mus musculus a disintegrin-like and metalloprotease (reprolysin type) with throm	XM_204236	1.04292
Histocompatibility 60	AF084643	1.05656
Pleckstrin homology, Sec7 and coiled-coil domains, binding protein	AK042173	1.08155
Mus musculus olfactory receptor 1446 (Olfr1446), mRNA [NM_146704]	NM_146704	1.02334
Mus musculus DNA fragmentation factor, alpha subunit (Dffa), mRNA [NM_010044]	NM_010044	1.31726
Mus musculus dehydrogenase/reductase (SDR family) member 3 (Dhrs3), mRNA	NM_011303	1.26113
Mus musculus RIKEN cDNA 4921524J17 gene (4921524J17Rik), mRNA [NM_025722]	NM_025722	-1.53499
Oxysterol binding protein 2	AK049816	1.10301
Mus musculus polymerase (DNA directed), iota (Poli), mRNA [NM_011972]	NM_011972	-1.22596
Mus musculus pancreatic lipase-related protein 2 (Pnliprp2), mRNA [NM_011128]	NM_011128	-1.1705
Mus musculus homeo box A3 (Hoxa3), mRNA [NM_010452]	NM_010452	1.08205
Mus musculus RIKEN cDNA 2700088M22 gene (2700088M22Rik), mRNA [NM_026025]	NM_026025	-1.35806
Ankyrin repeat and KH domain containing 1	AK042754	-1.15793
EGF-like repeats and discoidin I-like domains 3	AF031525	-1.17928
Mus musculus epoxide hydrolase 1, microsomal (Ephx1), mRNA [NM_010145]	NM_010145	1.05227
Mus musculus endothelial-specific receptor tyrosine kinase (Tek), mRNA [NM_013690]	NM_013690	-1.41577
RIKEN cDNA 4833409A17 gene	AK014668	1
Mus musculus zinc finger, imprinted 1 (Zim1), mRNA [NM_011769]	NM_011769	-1.08053
Thyroid hormone receptor associated protein 3	BC048391	1.08285
Guanine nucleotide binding protein-like 3 (nucleolar)	NM_178846	-1.18313
Phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoribosylaminoi	AK009722	1.0153
Mus musculus expressed sequence AI317223 (AI317223), mRNA [NM_001002]	NM_001002	1.05321
Mus musculus cDNA sequence BC026530 (BC026530), mRNA [NM_172443]	NM_172443	1.13347
RIKEN cDNA 2400006N03 gene	BC047996	-1.17953
Mus musculus RIKEN cDNA 4933417E01 gene (4933417E01Rik), mRNA [NM_028954]	NM_028954	1.20267
Metallophosphoesterase 1	BC023406	-1.23814
Mus musculus RIKEN cDNA 9530066K23 gene (9530066K23Rik), mRNA [NM_172524]	NM_172524	-1.06011
hypothetical protein A430070M19	NM_177865	-1.15134

Mus musculus solute carrier family 39 (zinc transporter), member 14 (Slc39a14)	NM_144808	-1.04106
Mus musculus gamma-aminobutyric acid (GABA-A) receptor, subunit gamma 2	NM_008073	1.0267
Mus musculus solute carrier organic anion transporter family, member 1b2 (Slcc)	NM_178235	1.01658
UPF2 regulator of nonsense transcripts homolog (yeast)	AK045943	1.07998
RIKEN cDNA 4732486J07 gene	NM_177130	1.02365
Mus musculus N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2 (Nds)	NM_010811	1.03913
membrane glycoprotein M6=major CNS myelin protein PLP/DM20 homolog {clo	S65735	-1.0658
Mus musculus dermatan sulphate proteoglycan 3 (Dspg3), mRNA [NM_007884]	NM_007884	1.2112
CDNA sequence BC030477	AK049137	1.121
Mus musculus olfactory receptor 561 (Olfr561), mRNA [NM_147092]	NM_147092	1.00272
Mus musculus expressed sequence C79127 (C79127), mRNA [NM_177691]	NM_177691	-1.06065
Mus musculus Fanconi anemia, complementation group L (Fanci), mRNA [NM_025923]	NM_025923	-1.40292
Methylmalonyl CoA epimerase	BC038157	-1.5758
RIKEN cDNA 2810009O15 gene	AK044548	1
Mus musculus leucine rich repeat and fibronectin type III domain containing 1 (L	NM_030562	1.0457
Mus musculus olfactory receptor 478 (Olfr478), mRNA [NM_146734]	NM_146734	-1.00108
RIKEN cDNA E130119H09 gene	AK021396	1.04734
Mus musculus zinc finger protein 318 (Zfp318), transcript variant 2, mRNA [NM_021346]	NM_021346	-1.05204
Mus musculus cDNA sequence BC016548 (BC016548), mRNA [NM_174994]	NM_174994	1.11462
RIKEN cDNA 1200015F23 gene	BC055754	1.03006
Mus musculus flavin containing monooxygenase 3 (Fmo3), mRNA [NM_008030]	NM_008030	-1.15003
Mus musculus glucocorticoid modulatory element binding protein 1 (Gmeb1), m	NM_020273	-1.09617
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:	AK005698	1.00683
Mus musculus SH3 domain binding glutamic acid-rich protein-like 3 (Sh3bgrl3),	NM_080559	1.06623
Mus musculus olfactory receptor 535 (Olfr535), mRNA [NM_146954]	NM_146954	1.00373
Mus musculus amino adipate aminotransferase (Aadat), mRNA [NM_011834]	NM_011834	1.11765
Mus musculus Eph receptor A8 (Epha8), mRNA [NM_007939]	NM_007939	1.12326
Mus musculus YME1-like 1 (S. cerevisiae) (Yme111), mRNA [NM_013771]	NM_013771	-1.28093
Kruppel-like factor 6	NM_011803	1.24768
Mus musculus RIKEN cDNA 1700048E23 gene (1700048E23Rik), mRNA [NM_028521]	NM_028521	-1.4686
RIKEN cDNA E030025D05 gene	AK087049	1.01627
Mus musculus RIKEN cDNA 2010106E10 gene (2010106E10Rik), mRNA [NM_026333]	NM_026333	1.07056
Mus musculus RAB14, member RAS oncogene family (Rab14), mRNA [NM_026697]	NM_026697	1.07474
Eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange pr	AK006403	-1.04084
Mus musculus flightless I homolog (Drosophila) (Fliih), mRNA [NM_022009]	NM_022009	1.21682
ATP-binding cassette, sub-family C (CFTR/MRP), member 3	AK006128	-1.07131
Mus musculus mab-21-like 2 (C. elegans) (Mab21I2), mRNA [NM_011839]	NM_011839	1.15132
Mus musculus 12 days embryo eyeball cDNA, RIKEN full-length enriched library	AK051922	1.03408
selenoprotein M	AK086243	1.14095
Mus musculus transient receptor potential cation channel, subfamily C, member	NM_009428	1.05303
Mus musculus Yip1 interacting factor homolog (S. cerevisiae) (Yif1), mRNA [NM_026553]	NM_026553	-1.17829
Phosphoglycerate kinase 1	BC032167	-1.16572
Mus musculus RIKEN cDNA 9930017A07 gene (9930017A07Rik), mRNA [NM_172564]	NM_172564	1.03291
Mus musculus RIKEN cDNA 1200014P03 gene (1200014P03Rik), mRNA [NM_029091]	NM_029091	1.05674
Mus musculus zinc finger protein 386 (Kruppel-like) (Zfp386), mRNA [NM_019565]	NM_019565	-1.55043
Mus musculus dead end homolog 1 (zebrafish) (Dnd1), mRNA [NM_173383]	NM_173383	1.08657
CDNA sequence BC008150	BC008150	-2.74052
Mus musculus olfactory receptor 601 (Olfr601), mRNA [NM_146314]	NM_146314	1
Mus musculus aryl-hydrocarbon receptor repressor (Ahrr), mRNA [NM_009644]	NM_009644	1.02218
Mus musculus heat shock protein, alpha-crystallin-related, B6 (Hspb6), mRNA.	XM_145511	1.0088
Mus musculus wingless-related MMTV integration site 11 (Wnt11), mRNA [NM_009519]	NM_009519	1.10967
Mus musculus BCL2/adenovirus E1B 19kDa-interacting protein 3-like (Bnip3l), r	NM_009761	-1.20536

Mus musculus procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hyd	NM_011030	-1.04801
RIKEN cDNA A330102H22 gene	AK039241	1.14015
CASK interacting protein 1	AK014376	-1.06206
Mus musculus RIKEN cDNA E030002O03 gene (E030002O03Rik), mRNA [NM_	NM_172905	1.0105
Mus musculus kinectin 1 (Ktn1), mRNA [NM_008477]	NM_008477	-1.47779
RIKEN cDNA 4933407L21 gene	AK037440	1.00232
Mus musculus RIKEN cDNA 6330583M11 gene (6330583M11Rik), mRNA [NM_	NM_024465	1.18182
Mus musculus cDNA sequence BC055815 (BC055815), mRNA [NM_172837]	NM_172837	-1.26286
Mus musculus RIKEN cDNA 5730578N08 gene (5730578N08Rik), mRNA [NM_	NM_025693	-1.08901
Mus musculus 5-hydroxytryptamine (serotonin) receptor 2 A (Htr2a), mRNA [NM_	NM_172812	1.04212
Mus musculus phospholipase A2, group X (Pla2g10), mRNA [NM_011987]	NM_011987	1.02398
Mus musculus cDNA sequence BC030440 (BC030440), mRNA [NM_173732]	NM_173732	-1.0558
Mus musculus RIKEN cDNA 4931406I20 gene (4931406I20Rik), mRNA [NM_0;	NM_025739	1.19741
RAS-like, family 2, locus 9	NM_009028	-1.40501
Mus musculus transmembrane protease, serine 2 (Tmprss2), mRNA [NM_0157	NM_015775	-1.01052
Forkhead box L2	NM_012020	1.0414
Mus musculus Mak3 homolog (S. cerevisiae) (Mak3), mRNA [NM_028108]	NM_028108	-1.43653
Mus musculus peroxisome biogenesis factor 16 (Pex16), mRNA [NM_145122]	NM_145122	1.08748
Mus musculus olfactory receptor 339 (Olfr339), mRNA [NM_146949]	NM_146949	1.12062
RIKEN cDNA 2310051N18 gene	AK009937	1.04196
Keratin associated protein 6-1	D86419	1.03132
Mus musculus thyroid hormone receptor interactor 4 (Trip4), mRNA [NM_01979	NM_019797	-1.28527
Mus musculus sorting nexin 5 (Snx5), mRNA [NM_024225]	NM_024225	-1.26634
Mus musculus solute carrier family 35 (CMP-sialic acid transporter), member 1 (	NM_011895	-1.03123
Mus musculus nucleosome binding protein 1 (Nsbp1), mRNA [NM_016710]	NM_016710	-1.39924
RIKEN cDNA 0610009L18 gene	AK002420	-1.05099
Mus musculus scleraxis (Scx), mRNA [NM_198885]	NM_198885	-1.18205
Mus musculus protein kinase, DNA activated, catalytic polypeptide (Prkdc), mR	NM_011159	1.13619
Mus musculus LIM homeobox protein 4 (Lhx4), mRNA [NM_010712]	NM_010712	1.01903
Mus musculus oxoglutarate dehydrogenase (lipoamide) (Ogdh), mRNA [NM_01	NM_010956	1.1199
Unknown		1.04618
RIKEN cDNA 3110005L24 gene	AK014001	1.08552
Mus musculus poly(A) binding protein, nuclear 1 (Pabpn1), mRNA [NM_019402	NM_019402	1.10881
Mus musculus 3'-phosphoadenosine 5'-phosphosulfate synthase 1 (Papss1), m	NM_011863	-1.28276
Mus musculus RNA binding motif protein 12 (Rbm12), transcript variant 1, mRN	NM_029397	-1.77776
Mus musculus lysophospholipase 2 (Lypla2), mRNA [NM_011942]	NM_011942	-1.03957
Mus musculus BTB (POZ) domain containing 14A (Btbd14a), mRNA [NM_0264	NM_026495	1.45539
Mus musculus interleukin 7 (Il7), mRNA [NM_008371]	NM_008371	-1.06707
RIKEN cDNA 4933402L21 gene	AK016624	-1.01641
Mus musculus lectin, galactose binding, soluble 3 (Lgals3), mRNA [NM_010705	NM_010705	-1.00916
Mus musculus RIKEN cDNA 1110008L20 gene (1110008L20Rik), mRNA [NM_	(NM_028643	1.01309
Mus musculus biotinidase (Btd), mRNA [NM_025295]	NM_025295	1.01747
Mus musculus brachyury (T), mRNA [NM_009309]	NM_009309	1.03636
Mus musculus colipase, pancreatic (Clps), mRNA [NM_025469]	NM_025469	1.08077
Mus musculus adult male hypothalamus cDNA, RIKEN full-length enriched libra	AK039091	-1.05483
Mus musculus olfactory receptor 555 (Olfr555), mRNA [NM_147103]	NM_147103	1.01206
Mus musculus alkaline phosphatase 3, intestine, not Mn requiring (Akp3), mRN	NM_007432	1.07176
Mus musculus leukotriene A4 hydrolase (Lta4h), mRNA [NM_008517]	NM_008517	-1.03063
Mus musculus olfactory receptor 1496 (Olfr1496), mRNA [NM_146989]	NM_146989	1.10379
Mus musculus paired box gene 5 (Pax5), mRNA [NM_008782]	NM_008782	1.00997
Activating transcription factor 7 interacting protein 2	AK077229	1.01149
Mus musculus profilin 2 (Pfn2), mRNA [NM_019410]	NM_019410	-1.71101

Mus musculus zinc finger and BTB domain containing 5 (Zbtb5), mRNA [NM_17NM_173399]		-1.20514
Mus musculus olfactory receptor 124 (Olfr124), mRNA [NM_147062]	NM_147062	1.14949
Dipeptidylpeptidase 8	AK009140	-1.05666
Mus musculus RIKEN cDNA 4732463G12 gene (4732463G12Rik), mRNA [NM_NM_178802]		-1.033
Mus musculus programmed cell death 1 (Pcd1), mRNA [NM_008798]	NM_008798	1.0868
AY073353 olfactory receptor MOR245-1 {Mus musculus}, partial (98%) [TC1017557]		1.01621
RIKEN cDNA 4933434L15 gene	AK033080	-1.14735
Mus musculus polyhomeotic-like 2 (Drosophila) (Phc2), mRNA [NM_018774]	NM_018774	1.21944
Mus musculus RIKEN cDNA 1700021F05 gene (1700021F05Rik), mRNA [NM_NM_026411]		-1.26138
Mus musculus RIKEN cDNA 1810017N16 gene (1810017N16Rik), mRNA [NM_NM_175402]		-1.00386
Mus musculus HRAS-like suppressor (Hrasls), mRNA [NM_013751]	NM_013751	1.0195
Mus musculus fibroblast growth factor 8 (Fgf8), mRNA [NM_010205]	NM_010205	-1.01471
AB065778 seven transmembrane helix receptor {Homo sapiens}, partial (93%) [TC999370]		1.01295
Protein kinase C binding protein 1	AK008125	1.0662
Mus musculus peptidylprolyl isomerase (cyclophilin)-like 1 (Ppil1), mRNA [NM_NM_026845]		-1.04739
Pre B-cell leukemia transcription factor 1	AK009939	1.08917
Mus musculus SEC22 vesicle trafficking protein-like 1 (S. cerevisiae) (Sec22l1), NM_011342		-1.43706
Mus musculus hemopexin (Hpxn), mRNA [NM_017371]	NM_017371	1.04286
Mus musculus 0 day neonate head cDNA, RIKEN full-length enriched library, clcAK014764		1.49733
Mus musculus microtubule associated serine/threonine kinase 1 (Mast1), mRNA [NM_019945]	NM_019945	-1.01056
Mus musculus sperm associated antigen 5 (Spag5), mRNA [NM_017407]	NM_017407	-1.1042
Mus musculus RIKEN cDNA 1190017O12 gene (1190017O12Rik), mRNA [NM_NM_138743]		-1.2619
Mus musculus olfactory receptor 1164 (Olfr1164), mRNA [NM_146641]	NM_146641	1.03614
Mus musculus mannoside acetylglucosaminyltransferase 3 (Mgat3), mRNA [NM_NM_010795]		-1.42272
Mus musculus RIKEN cDNA C730025P13 gene (C730025P13Rik), mRNA [NM_NM_177344]		-1.21141
Unknown		-1.11843
SPRY domain-containing SOCS box 4	AK083698	1.25244
Mus musculus RIKEN cDNA 5730405M13 gene (5730405M13Rik), mRNA [NM_NM_025671]		1.07293
Cartilage intermediate layer protein 2	AK004006	1.05308
Mus musculus RIKEN cDNA 1110028N05 gene (1110028N05Rik), mRNA [NM_NM_025400]		-1.12746
hypothetical protein 4831417L10	NM_177769	1.04076
Mus musculus feminization 1 homolog a (C. elegans) (Fem1a), mRNA [NM_010192]	NM_010192	-1.09927
Mus musculus breast cancer anti-estrogen resistance 3 (Bcar3), mRNA [NM_0113867]	NM_0113867	-1.25912
Mus musculus golgi SNAP receptor complex member 1 (Gosr1), mRNA [NM_0116810]	NM_0116810	-1.10163
Mus musculus DNA segment, Chr 17, ERATO Doi 288, expressed (D17Ert288)	NM_030697	-1.12126
Fer-1-like 4 (C. elegans)	AK018656	1.10186
One cut domain, family member 1	BC023444	-1.33466
Mus musculus leucyl-tRNA synthetase, mitochondrial (Lars2), mRNA [NM_1531153168]	NM_1531153168	3.13433
Tripartite motif containing 68	NM_198012	1.33162
Spermatogenesis associated 16	NM_029150	1.07589
RIKEN cDNA A230083H22 gene	NM_181348	1.04447
Mus musculus vomeronasal 1 receptor, G2 (V1rg2), mRNA [NM_134203]	NM_134203	1.05998
Mus musculus retinitis pigmentosa 9 homolog (human) (Rp9h), mRNA [NM_01818739]	NM_01818739	-1.2063
Mus musculus signal recognition particle 14 (Srp14), mRNA [NM_009273]	NM_009273	-1.44388
Mus musculus olfactory receptor 1360 (Olfr1360), mRNA [NM_146543]	NM_146543	1.11087
Mus musculus phosphomannomutase 2 (Pmm2), mRNA [NM_016881]	NM_016881	1.07407
Similar to LOC90268 protein	BC028541	-1.23671
Mus musculus RIKEN cDNA 2510048K03 gene (2510048K03Rik), mRNA [NM_NM_028243]		-1.44396
Ribosomal protein S19	AK031736	-1.11475
Mus musculus formyl peptide receptor, related sequence 3 (Fpr-rs3), mRNA [NM_NM_008040]		1.0113
Mus musculus elastin microfibril interfacier 3 (Emilin3), mRNA [NM_182840]	NM_182840	-1.39496
Mus musculus epithelial mitogen (Epgn), mRNA [NM_053087]	NM_053087	1.15812

Mus musculus hypothetical protein D430018P08 (D430018P08), mRNA [NM_177698]	NM_177698	1.02356
Mus musculus CDC16 cell division cycle 16 homolog (<i>S. cerevisiae</i>) (Cdc16), mRNA [NM_027276]	NM_027276	-1.48741
Mus musculus riboflavin kinase (Rfk), mRNA [NM_019437]	NM_019437	-1.33564
Mus musculus U2 small nuclear ribonucleoprotein B (Snrpb2), mRNA [NM_021335]	NM_021335	-1.33599
Mus musculus RIKEN cDNA 1110032N12 gene (1110032N12Rik), mRNA [NM_026824]	NM_026824	1.02086
Ubiquitin specific protease 53	BC022221	-1.5054
Unknown		1.07524
Mus musculus interleukin 1 receptor-like 2 (Il1rl2), mRNA [NM_133193]	NM_133193	1.02177
Mus musculus olfactory receptor 1032 (Olfr1032), mRNA [NM_146579]	NM_146579	1.10481
Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 14 (Slc16a14), mRNA [NM_009196]	NM_009196	-1.32293
RIKEN cDNA 1500005P14 gene	AK005167	1.11674
Mus musculus ubiquitin associated and SH3 domain containing, A (Ubash3a), mRNA [NM_177823]	NM_177823	1.09165
Mus musculus RAD17 homolog (<i>S. pombe</i>) (Rad17), mRNA [NM_011233]	NM_011233	-1.34548
Carbonic anhydrase 10	AK035758	1.14651
Mus musculus RIKEN cDNA 1200008D14 gene (1200008D14Rik), mRNA [NM_026163]	NM_026163	-1.31023
Mus musculus RIKEN cDNA 9330128H10 gene (9330128H10Rik), mRNA [NM_175678]	NM_175678	1.0869
Mus musculus camello-like 4 (Cml4), mRNA [NM_023455]	NM_023455	1.13223
Mus musculus spleen tyrosine kinase (Syk), mRNA [NM_011518]	NM_011518	1.14149
Mus musculus lactamase, beta 2 (Lactb2), mRNA [NM_145381]	NM_145381	1.01312
Mus musculus adaptor-related protein complex 3, mu 2 subunit (Ap3m2), mRNA [NM_029505]	NM_029505	1.00242
Mus musculus histamine H4 receptor (Hrh4), mRNA [NM_153087]	NM_153087	1.04248
Pyruvate kinase, muscle	X97047	1.08843
RIKEN cDNA 1110020P09 gene	AK003880	-1.066
Mus musculus spermatid perinuclear RNA binding protein (Strbp), mRNA [NM_009261]	NM_009261	1.23035
Mus musculus holocytochrome c synthetase (Hccs), mRNA [NM_008222]	NM_008222	-1.47001
Mus musculus signal transducing adaptor molecule (SH3 domain and ITAM motif) (Spat), mRNA [NM_011484]	NM_011484	-1.29759
Mus musculus SH3 multiple domains 1 (Sh3md1), mRNA [NM_008018]	NM_008018	-1.01011
RIKEN cDNA 1700110M21 gene	AK007164	1.13379
RIKEN cDNA 4930432K09 gene	AK015291	-1.02635
Mus musculus potassium intermediate/small conductance calcium-activated channel subunit 1 (Kcnc1), mRNA [NM_080466]	NM_080466	1.15652
Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 7 (Dnajc7), mRNA [NM_019795]	NM_019795	-1.30609
Mus musculus RIKEN cDNA 1700047E16 gene (1700047E16Rik), mRNA [NM_173431]	NM_173431	1.16097
Mus musculus RIKEN cDNA 2210012G02 gene (2210012G02Rik), mRNA [NM_025617]	NM_025617	-1.11259
Mus musculus differentially expressed in FDCP 6 (Def6), mRNA [NM_027185]	NM_027185	1.02419
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK016558	AK016558	1.00681
Mus musculus RIKEN cDNA 4930579J09 gene (4930579J09Rik), mRNA [NM_133689]	NM_133689	1.0884
Mus musculus G patch domain and KOW motifs (Gpkow), mRNA [NM_173747]	NM_173747	1.06959
RIKEN cDNA 4930519P11 gene	AK053350	-1.01827
regucalcin gene promotor region related protein	NM_033354	1.09307
Mus musculus triggering receptor expressed on myeloid cells 2 (Trem2), mRNA [NM_031254]	NM_031254	-1.10563
Protein inhibitor of activated STAT 3	NM_018812	-1.01481
Mus musculus dynein, axonemal, heavy chain 5 (Dnahc5), mRNA [NM_133365]	NM_133365	-1.00695
Mus musculus synaptotagmin 6 (Syt6), mRNA [NM_018800]	NM_018800	1.06073
Mus musculus X-linked lymphocyte-regulated 4 (Xlr4), mRNA [NM_021365]	NM_021365	-1.20903
Far upstream element (FUSE) binding protein 1	NM_057172	-1.12278
Mus musculus forkhead box P2 (Foxp2), transcript variant 1, mRNA [NM_053242]	NM_053242	-1.17218
Mus musculus RIKEN cDNA 4933440J22 gene (4933440J22Rik), mRNA [NM_028959]	NM_028959	-1.03069
Mus musculus cDNA sequence AB023957 (AB023957), mRNA [NM_133237]	NM_133237	-1.4325
Contactin 1	AK076273	1.00194
Mus musculus RIKEN cDNA 4930524H12 gene (4930524H12Rik), mRNA [NM_025789]	NM_025789	1.13206
Mus musculus neurogenic differentiation 2 (Neurod2), mRNA [NM_010895]	NM_010895	1.10479
RIKEN cDNA 1700016C15 gene	AK006014	1.05018

Unknown		1.01212
Mus musculus RIKEN cDNA 2810428C21 gene (2810428C21Rik), mRNA [NM_	NM_153503	-1.12603
Mus musculus transient receptor potential cation channel, subfamily C, member	NM_013838	-1.22429
Mus musculus cytokine inducible SH2-containing protein (Cish), mRNA [NM_00	NM_009895	-1.21663
Expressed sequence AI851076	AK038056	1.11792
Mus musculus olfactory receptor 1023 (Olfr1023), mRNA [NM_146587]	NM_146587	-1.00659
Mus musculus reticuloendotheliosis oncogene (Rel), mRNA [NM_009044]	NM_009044	-1.14944
Mus musculus contactin associated protein 1 (Cntnap1), mRNA [NM_016782]	NM_016782	1.0216
Mus musculus olfactory receptor 127 (Olfr127), mRNA [NM_146377]	NM_146377	1.12826
Chromodomain helicase DNA binding protein 5	AK046510	1.07007
Mus musculus H2-K region expressed gene 6 (H2-Ke6), mRNA [NM_013543]	NM_013543	1.03629
Mus musculus protein tyrosine phosphatase, non-receptor type 1 (Ptpn1), mRN	NM_011201	-1.02674
Mus musculus RIKEN cDNA 2410004H05 gene (2410004H05Rik), mRNA [NM_	NM_029626	-1.25866
Mus musculus zinc finger CCCH type domain containing 7 (Zc3hdc7), mRNA [N	NM_145931	-1.37467
Mus musculus olfactomedin 1 (Olfm1), mRNA [NM_019498]	NM_019498	1.29008
Mus musculus otogelin (Otog), mRNA [NM_013624]	NM_013624	1.07696
Mus musculus neuron navigator 1 (Nav1), mRNA [NM_173437]	NM_173437	-1.59002
Mus musculus RIKEN cDNA 2310038E17 gene (2310038E17Rik), mRNA [XM_	XM_146486	1.05233
A disintegrin-like and metalloprotease (reprolysin type) with thrombospondin typ	BC056427	1.17551
Mus musculus tumor necrosis factor receptor superfamily, member 11a (Tnfrsf1	NM_009399	1.10535
UI-M-AP0-abm-a-03-0-UI.s1 NIH_BMAP_MST Mus musculus cDNA clone UI-M	AI837370	1.31321
Mus musculus RIKEN cDNA 4930579C12 gene (4930579C12Rik), mRNA [NM_	NM_175672	-1.03606
Mus musculus F-box and leucine-rich repeat protein 12 (Fbxl12), mRNA [NM_0	NM_013911	1.06403
Mus musculus, clone IMAGE:6744101, mRNA	BQ935070	-1.05186
Mus musculus myeloblastosis oncogene-like 2 (Mybl2), mRNA [NM_008652]	NM_008652	1.22586
Mus musculus RIKEN cDNA 0610006K04 gene (0610006K04Rik), mRNA [NM_	NM_026675	-1.05126
Mus musculus kelch-like 10 (Drosophila) (Klhl10), mRNA [NM_025727]	NM_025727	-1.01606
RIKEN cDNA 2810465F10 gene	AK047562	-1.10253
Mus musculus vomeronasal 2, receptor, 4 (V2r4), mRNA [NM_009493]	NM_009493	1.04004
Unknown		1.02014
Mus musculus RIKEN cDNA 1110038M16 gene (1110038M16Rik), mRNA [NM_	NM_026837	-1.13069
Mus musculus dystonin (Dst), mRNA [NM_010081]	NM_010081	1.06435
Mus musculus basic transcription element binding protein 1 (Bteb1), mRNA [NM	NM_010638	1.34195
Mus musculus testis expressed gene 292 (Tex292), mRNA [NM_011574]	NM_011574	-1.01523
Mus musculus glutathione S-transferase, mu 4 (Gstm4), mRNA [NM_026764]	NM_026764	1.00821
DNA-damage inducible protein 2	AK018643	-1.02502
Mus musculus Rhesus blood group CE and D (Rhced), mRNA [NM_011270]	NM_011270	-1.07212
Mus musculus RIKEN cDNA D030014N22 gene (D030014N22Rik), mRNA [NM	NM_178734	1.04377
RIKEN cDNA 4930465A12 gene	AK015502	-1.20139
RIKEN cDNA C530038A18 gene	M63554	-1.11244
Mus musculus atonal homolog 7 (Drosophila) (Atoh7), mRNA [NM_016864]	NM_016864	1
Mus musculus RIKEN cDNA 2410002I01 gene (2410002I01Rik), mRNA [NM_1	NM_183137	1.02507
Mus musculus eukaryotic translation initiation factor 2, subunit 2 (beta) (Eif2s2),	NM_026030	-1.28182
RIKEN cDNA 5730439E10 gene	AK041180	1.06546
Mus musculus RIKEN cDNA 2700038C09 gene (2700038C09Rik), mRNA [NM_	NM_025598	-1.00909
Mus musculus cDNA sequence BC006662 (BC006662), mRNA [NM_145466]	NM_145466	-1.04489
RIKEN cDNA A330106H01 gene	AK030269	1.08111
Mus musculus ubiquitin-conjugating enzyme E2L 3 (Ube2l3), mRNA [NM_0094	NM_009456	-1.18186
Mus musculus tight junction protein 4 (peripheral) (Tjp4), mRNA [NM_028751]	NM_028751	1.11344
Mus musculus DNA methyltransferase 1-associated protein 1 (Dmap1), mRNA [	NM_023178	1.01604
Mus musculus Wnt inhibitory factor 1 (Wif1), mRNA [NM_011915]	NM_011915	1.03602
Mus musculus RIKEN cDNA 1700034P14 gene (1700034P14Rik), mRNA [NM_	NM_028487	-1.27338

Mus musculus cDNA sequence BC025462 (BC025462), mRNA [NM_145946]	NM_145946	1.04896
Methionine sulfoxide reductase A	NM_026322	-1.15106
Transmembrane protease, serine 11e	NM_172880	1.45296
Mus musculus integrin beta 2 (Itgb2), mRNA [NM_008404]	NM_008404	1.06653
Synuclein, gamma	NM_011430	-1.1761
Cornifelin	BC059093	1.01016
Mus musculus inositol (myo)-1(or 4)-monophosphatase 2 (Impa2), mRNA [NM_053261]	NM_053261	-1.10683
Mus musculus G protein-coupled receptor 35 (Gpr35), mRNA [NM_022320]	NM_022320	-1.0432
Mus musculus olfactory receptor 1394 (Olfr1394), mRNA [NM_146276]	NM_146276	-1.31224
RIKEN cDNA 2310032M22 gene	AK030781	1.0049
DNA segment, Chr 8, ERATO Doi 531, expressed	AK048942	1
RIKEN cDNA 4930512B01 gene	AK015558	1.04095
Mus musculus zinc finger protein 28 (Zfp28), mRNA [NM_009552]	NM_009552	1.17478
Mus musculus DNA segment, Chr 10, Johns Hopkins University 81 expressed (I	NM_138601	-2.24215
Mus musculus olfactory receptor 568 (Olfr568), mRNA [NM_147091]	NM_147091	1.0439
Mus musculus widely-interspaced zinc finger motifs (Wiz), transcript variant 3, r	NM_212437	-1.08043
Mus musculus myeloid leukemia factor 1 interacting protein (Mlf1ip), mRNA [NM	NM_027973	1.08352
Nucleoporin like 1	BC010981	-1.60573
RIKEN cDNA 2210008M09 gene	AK042164	-1.01559
Mus musculus RIKEN cDNA 5133400G04 gene (5133400G04Rik), mRNA [NM_	NM_027733	-1.16128
actin-related protein 3-beta	BC053106	-1.14724
Mus musculus RIKEN cDNA 1810045K07 gene (1810045K07Rik), mRNA [NM_	NM_026432	-1.08378
Mus musculus polymerase (DNA-directed), delta 3, accessory subunit (Pold3), r	NM_133692	-1.07109
Olfactomedin-like 2A	AK030069	-1.15676
Mus musculus histone 1, H4a (Hist1h4a), mRNA [NM_178192]	NM_178192	1.48261
Mus musculus transient receptor potential cation channel, subfamily C, member	NM_011643	1.03713
Mus musculus mitogen activated protein kinase kinase kinase 2 (Map3k2), mRN	NM_011946	1.16661
Exportin 5	AK122486	1.04435
Mus musculus ligase I, DNA, ATP-dependent (Lig1), mRNA [NM_010715]	NM_010715	1.08491
Actin related protein 2/3 complex, subunit 2	AK008777	-1.29667
Mus musculus ancient ubiquitous protein (Aup1), mRNA [NM_007517]	NM_007517	1.4388
Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 8 (Nuc	NM_025529	1.00249
Mus musculus RIKEN cDNA 1700007F22 gene (1700007F22Rik), mRNA [NM_	NM_183284	-1.00046
Mus musculus SMC4 structural maintenance of chromosomes 4-like 1 (yeast) (S	NM_133786	-1.27883
Mus musculus isocitrate dehydrogenase 3 (NAD+) beta (Idh3b), mRNA [NM_13	NM_130884	-1.0911
Mus musculus breast carcinoma amplified sequence 2 (Bcas2), mRNA [NM_02	NM_026602	-1.7107
RIKEN cDNA 6430562O15 gene	AK032482	-1.00675
Mus musculus prohibitin (Phb), mRNA [NM_008831]	NM_008831	1.10558
Ubiquitin protein ligase E3 component n-recogin 2	AK018693	-1.29655
Potassium voltage-gated channel, subfamily Q, member 4	AF249747	-1.13348
Olfactory receptor 138	CB173244	-1.11095
Mus musculus mesogenin 1 (Msgn1), mRNA [NM_019544]	NM_019544	1.14606
Mus musculus mRNA for zinc finger protein, partial cds.	D10628	-1.07637
Mus musculus olfactory receptor 497 (Olfr497), mRNA [NM_146738]	NM_146738	1.00866
RIKEN cDNA 4930572D21 gene	AK019807	1.15262
hypothetical protein A530080P10	AK041075	1.03461
Mus musculus AT motif binding factor 1 (Atbf1), mRNA [NM_007496]	NM_007496	-1.18199
Mus musculus RIKEN cDNA 1110031B11 gene (1110031B11Rik), mRNA [NM_	NM_026811	1.00528
Mus musculus solute carrier family 40 (iron-regulated transporter), member 1 (S	NM_016917	1.0188
Mus musculus DNA segment, Chr 13, Wayne State University 14, expressed (D	NM_023746	-1.0341
Mus musculus proline-rich nuclear receptor coactivator 2 (Pnrc2), mRNA [NM_0	NM_026383	-1.83183
Mus musculus olfactory receptor 975 (Olfr975), mRNA [NM_146828]	NM_146828	1.2407

CDNA sequence BC022960	BC022960	1.079
Mus musculus bagpipe homeobox gene 1 homolog (Drosophila) (Bapx1), mRNA [NM_007524]	NM_007524	-1.09633
Mus musculus neurogenic differentiation 4 (Neurod4), mRNA [NM_007501]	NM_007501	-1.08483
Mus musculus RIKEN cDNA 2500002K03 gene (2500002K03Rik), mRNA [NM_172733]	NM_172733	-1.11594
Ubiquitin specific protease 32	BC051399	-1.16471
Tripartite motif-containing 36	AK006077	-1.03743
Endosulfine alpha	BC058802	1.06568
Mus musculus RIKEN cDNA 5830405N20 gene (5830405N20Rik), mRNA [NM_183264]	NM_183264	1.06676
RIKEN cDNA 9030607L02 gene	NM_025423	-1.25851
Mus musculus olfactory receptor 606 (Olfr606), mRNA [NM_147094]	NM_147094	1.10959
Mus musculus chemokine (C-X-C motif) receptor 6 (Cxcr6), mRNA [NM_030712]	NM_030712	-1.21464
X transporter protein 3 similar 1 gene	NM_139142	-1.11325
Mus musculus RIKEN cDNA 6430601A21 gene (6430601A21Rik), mRNA [NM_175466]	NM_175466	-1.62163
Secretory carrier membrane protein 1	AK015706	-1.09941
Unknown		1.01657
Mus musculus DNA segment, Chr 19, ERATO Doi 144, expressed (D19Ert144)	NM_026373	-1.0815
Mus musculus polymerase (DNA directed), epsilon 2 (p59 subunit) (Pole2), mRNA [NM_011133]	NM_011133	-1.23285
Mus musculus suppressor of K ⁺ transport defect 3 (Skd3), mRNA [NM_009191]	NM_009191	-1.01127
Mus musculus leucine rich repeat and fibronectin type III domain containing 4 (LNM_153388)	NM_153388	1.04388
AMP deaminase 3	NM_009667	-1.04886
RIKEN cDNA D530025C17 gene	AK021298	1.02493
Mus musculus Bloom syndrome homolog (human) (Blm), mRNA [NM_007550]	NM_007550	1.03284
Mus musculus myotubularin related protein 2 (Mtmr2), mRNA [NM_023858]	NM_023858	-1.0013
Mus musculus RIKEN cDNA 6330407G04 gene (6330407G04Rik), mRNA [NM_134078]	NM_134078	-1.05212
Mus musculus cytochrome P450, family 2, subfamily a, polypeptide 4 (Cyp2a4), mRNA [NM_009997]	NM_009997	-1.46024
Mus musculus thioredoxin reductase 1 (Txnrd1), mRNA [NM_015762]	NM_015762	-1.2308
Mus musculus serine hydrolase-like (Serhl), mRNA [NM_023475]	NM_023475	1.04631
Fucosyltransferase 4, pseudogene 1	AK019884	-1.03896
Mus musculus a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motifs (ADAMTS-1), mRNA [NM_172845]	NM_172845	1.10319
Mus musculus ankyrin 3, epithelial (Ank3), transcript variant 1, mRNA [NM_170728]	NM_170728	-1.0035
Mus musculus olfactory receptor 771 (Olfr771), mRNA [NM_146547]	NM_146547	-1.02655
Mus musculus nth (endonuclease III)-like 1 (E.coli) (Nthl1), mRNA [NM_008743]	NM_008743	-1.0141
Mus musculus interferon gamma inducible protein 30 (Ifi30), mRNA [NM_023066]	NM_023066	-1.16374
Mus musculus fibrinogen, B beta polypeptide (Fgb), mRNA [NM_181849]	NM_181849	1.02746
Mus musculus chemokine (C motif) ligand 1 (Xcl1), mRNA [NM_008510]	NM_008510	1
Mus musculus solute carrier organic anion transporter family, member 6b1 (Slco6b1), mRNA [NM_026413]	NM_026413	1.03789
Mus musculus 4 days neonate male adipose cDNA, RIKEN full-length enriched library clone (AK080967)	AK080967	-1.26778
Interleukin 1 family, member 8	AK009787	1.06321
Mus musculus WD repeat domain 13 (Wdr13), mRNA [NM_026137]	NM_026137	-1.49492
Junction adhesion molecule 3	NM_023277	-1.0349
RIKEN cDNA 9430020M11 gene	NM_015752	-1.12788
Mus musculus RIKEN cDNA C630013N10 gene (C630013N10Rik), mRNA [NM_178771]	NM_178771	-1.06837
RIKEN cDNA 4930597G03 gene	AK016405	1.0831
hypothetical protein C230026C11	AK082224	1.33891
Unknown		-1.53223
Mus musculus membrane-spanning 4-domains, subfamily A, member 2 (Ms4a2), mRNA [NM_013516]	NM_013516	1.09672
Mus musculus polo-like kinase 1 (Drosophila) (Plk1), mRNA [NM_011121]	NM_011121	-1.03477
Mus musculus procollagen, type XVII, alpha 1 (Col17a1), mRNA [NM_007732]	NM_007732	-1.13105
RIKEN cDNA C230079D11 gene	AK086668	-1.01838
Mus musculus RIKEN cDNA 4930431E10 gene (4930431E10Rik), mRNA [NM_029438]	NM_029438	1.0659
Mus musculus olfactory receptor 981 (Olfr981), mRNA [NM_146286]	NM_146286	1.17502
Mus musculus nitric oxide synthase interacting protein (Nosip), mRNA [NM_025553]	NM_025553	1.007

Mus musculus 12 days embryo eyeball cDNA, RIKEN full-length enriched library AK084186	-1.13208
Unknown	1.05314
Mus musculus procollagen lysine, 2-oxoglutarate 5-dioxygenase 2 (Plod2), mRNA [NM_011961]	-1.07762
Mus musculus RIKEN cDNA 2900026A02 gene (2900026A02Rik), mRNA [NM_172884]	-1.01112
Mus musculus cell division cycle associated 1 (Cdca1), mRNA [NM_023284]	1.05573
Mus musculus integrin alpha 2 (Itga2), mRNA [NM_008396]	1.22373
Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system) (Slc7a7), mRNA [NM_007515]	-1.01117
Mus musculus olfactory receptor 1010 (Olfr1010), mRNA [NM_207149]	1.06947
Mus musculus B lymphoma Mo-MLV insertion region 1 (Bmi1), mRNA [NM_007552]	-1.24397
RIKEN cDNA 5730454B08 gene	AK003350
Lipoxygenase homology domains 1	AK007091
Mus musculus golgi autoantigen, golgin subfamily a, 3 (Golga3), mRNA [NM_008146]	-1.0131
Mitochondrial tumor suppressor 1	NM_178902
Mus musculus polymerase (RNA) III (DNA directed) polypeptide H (Polr3h), mRNA [NM_030229]	-1.03491
RIKEN cDNA 1500005P14 gene	AK006173
RIKEN cDNA E130103I17 gene	AK053503
Sh3kbp1 binding protein 1	AK006254
Mus musculus zinc finger protein 553 (Zfp553), mRNA [NM_146201]	1.01666
Dapper homolog 1, antagonist of beta-catenin (xenopus)	AK077691
Mus musculus cyclin-dependent kinase 3 (Cdk3), mRNA [NM_027165]	-1.01425
Insulin receptor substrate 4	NM_010572
Mus musculus chromogranin A (Chga), mRNA [NM_007693]	1.07418
Mus musculus RIKEN cDNA 1110056N09 gene (1110056N09Rik), mRNA [NM_133700]	-1.18315
Mus musculus RIKEN cDNA 4732429I09 gene (4732429I09Rik), mRNA [NM_178733]	-1.43667
BY715341 RIKEN full-length enriched, adult male testis Mus musculus cDNA clcBY715341	1.0071
RIKEN cDNA 2610207I05 gene	AK129136
Mus musculus proteasome (prosome, macropain) subunit, alpha type 7 (Psmc7), mRNA [NM_011969]	-1.56764
Mus musculus mitochondrial ribosomal protein S18A (Mrps18a), mRNA [NM_026768]	-1.25334
Mus musculus DNA segment, Chr 13, Wayne State University 177, expressed (INM_178605)	-1.08012
Mus musculus olfactory receptor 843 (Olfr843), mRNA [NM_146567]	1.0631
Mus musculus transcription elongation factor A (SII), 3 (Tcea3), mRNA [NM_011542]	-1.07852
Testis derived transcript 3	AF198092
Oxysterol binding protein 2	BC058356
Mus musculus RIKEN cDNA 4921516M08 gene (4921516M08Rik), mRNA [NM_027592]	-1.24761
Mus musculus RIKEN cDNA 1700094C09 gene (1700094C09Rik), mRNA [NM_024279]	-1.14387
Arginine-tRNA-protein transferase 1	BC050948
Mus musculus keratin complex 2, basic, gene 16 (Krt2-16), mRNA [NM_008474]	1.01892
Mus musculus pelota homolog (Drosophila) (Pelo), mRNA [NM_134058]	-1.00179
Mus musculus tropomyosin 4 (Tpm4), mRNA [NM_001001491]	-1.26943
Interleukin 10 receptor, beta	AK018347
Plasmacytoma variant translocation 1	Z11981
Mus musculus solute carrier family 25 (mitochondrial carrier, phosphate carrier), (Slc25a25), mRNA [NM_133668]	-1.15592
RIKEN cDNA 1700021P04 gene	AK006227
Centaurin, delta 1	AK084988
Mus musculus testis specific gene A2 (Tsga2), mRNA [NM_025290]	-1.1751
Mus musculus RIKEN cDNA B930093C12 gene (B930093C12Rik), mRNA [NM_172945]	1.26918
Mus musculus RAB39, member RAS oncogene family (Rab39), mRNA [NM_175562]	-1.04819
Mus musculus RIKEN cDNA 1200016G03 gene (1200016G03Rik), mRNA [XM_283319]	-1.12213
Mus musculus CXXC finger 1 (PHD domain) (Cxxc1), mRNA [NM_028868]	1.30263
Mus musculus chromodomain protein, Y chromosome-like 2 (Cdy12), mRNA [NM_029441]	-1.03528
RIKEN cDNA 1110012N22 gene	AK003645
Mus musculus glucagon-like peptide 1 receptor (Glp1r), mRNA [NM_021332]	1.00104

Mus musculus leucine rich repeat transmembrane neuronal 1 (Lrrtm1), mRNA [NM_028880]	1.03261
Mus musculus interleukin 1 receptor, type II (Il1r2), mRNA [NM_010555]	-1.0354
CDNA sequence BC010304	-1.69192
RIKEN cDNA 1700010L19 gene	-1.04161
Mus musculus SWI/SNF related, matrix associated, actin dependent regulator o	1.07279
Mus musculus retinoblastoma binding protein 9 (Rbbp9), mRNA [NM_015754]	1.02855
Mus musculus zinc finger protein 385 (Zfp385), mRNA [NM_013866]	1.31771
Mus musculus ribosomal protein L22 (Rpl22), mRNA [NM_009079]	-1.09214
Mus musculus cDNA sequence BC017643 (BC017643), mRNA [NM_144832]	-1.08726
Mus musculus RIKEN cDNA A330045H12 gene (A330045H12Rik), mRNA [NM_207279]	1.01423
Mus musculus RIKEN cDNA 5033414D02 gene (5033414D02Rik), mRNA [NM_026362]	-1.42047
Mus musculus gelsolin (Gsn), mRNA [NM_146120]	1.24527
Podocalyxin-like	-1.03078
Guanine nucleotide binding protein, alpha inhibiting 1	1.11595
Mus musculus PHD finger protein 11 (Phf11), mRNA [NM_172603]	-1.22215
RIKEN cDNA 1700006E09 gene	1.00293
Mus musculus expressed in non-metastatic cells 5 (Nme5), mRNA [NM_080637]	-1.03964
Mus musculus MAM domain containing 2 (Mamdc2), mRNA [NM_174857]	-1.24505
RIKEN cDNA 0610025J13 gene	-1.09951
Brain glycogen phosphorylase	1.09979
Mus musculus RIKEN cDNA 0610013E23 gene (0610013E23Rik), mRNA [NM_029788]	-1.97606
Mus musculus glutamate receptor, ionotropic, AMPA1 (alpha 1) (Gria1), mRNA [NM_008165]	1.37612
Mus musculus carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 5 (Chs	1.06024
Mus musculus kinesin family member 12 (Kif12), mRNA [NM_010616]	1.20369
Mus musculus lymphocyte antigen 6 complex, locus I (Ly6i), mRNA [NM_020499]	-1.03547
Mus musculus expressed sequence AI604832 (AI604832), mRNA [NM_133979]	1.05616
Mus musculus interferon induced with helicase C domain 1 (Ifih1), mRNA [NM_027835]	-1.26244
RIKEN cDNA 1700001F04 gene	-1.10304
Tial1 cytotoxic granule-associated RNA binding protein-like 1	-1.42363
Mus musculus RIKEN cDNA 4930486L24 gene (4930486L24Rik), mRNA [NM_178098]	-1.1391
Mus musculus RIKEN cDNA 6330514A18 gene (6330514A18Rik), mRNA [NM_183152]	1.00248
Mus musculus signal recognition particle 54 (Srp54), mRNA [NM_011899]	-1.34381
Mus musculus early growth response 1 (Egr1), mRNA [NM_007913]	-1.50481
Mus musculus THAP domain containing 4 (Thap4), mRNA [NM_025920]	1.0148
Transmembrane protein 10	1.07069
RIKEN cDNA 4931423N10 gene	1.0389
Mus musculus solute carrier family 5 (sodium iodide symporter), member 5 (Slc	-1.43132
Mus musculus B-cell leukemia/lymphoma 3 (Bcl3), mRNA [NM_033601]	-1.06281
Mus musculus polymerase (RNA) II (DNA directed) polypeptide G (Polr2g), mRNA [NM_026329]	-1.26408
Mus musculus proprotein convertase subtilisin/kexin type 7 (Pcsk7), mRNA [NM_008794]	1.04128
RIKEN cDNA 4930471G03 gene	1.03437
RIKEN cDNA 9330161A08 gene	-1.09097
Mus musculus RIKEN cDNA 4933409N07 gene (4933409N07Rik), mRNA [NM_175162]	1.25426
Mus musculus RIKEN cDNA 5730403B10 gene (5730403B10Rik), mRNA [NM_025670]	-1.21551
Mus musculus phosphatidylinositol-4-phosphate 5-kinase, type 1 beta (Pip5k1b)	1.16157
Mus musculus expressed sequence AA409802 (AA409802), mRNA [NM_178644]	1.07597
Mus musculus transformation related protein 53 inducible nuclear protein 1 (Trp	-1.34459
Mus musculus RIKEN cDNA 6720456B07 gene (6720456B07Rik), mRNA [NM_133937]	-1.29624
Mus musculus checkpoint with forkhead and ring finger domains (Chfr), mRNA [NM_172717]	-1.39231
Mus musculus ABO blood group (transferase A, alpha 1-3-N-acetylgalactosamin	-1.0428
Mus musculus glutathione peroxidase 6 (Gpx6), mRNA [NM_145451]	1.11485
Mus musculus olfactory receptor 746 (Olfr746), mRNA [NM_146298]	-1.01512

Mus musculus enolase 2, gamma neuronal (Eno2), mRNA [NM_013509]	NM_013509	-1.05948
RIKEN cDNA 4930402D18 gene	AK015045	1.0733
Mus musculus RIKEN cDNA 5830433M19 gene (5830433M19Rik), mRNA [NM_026368]	NM_026368	-1.41467
Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 9 (Abn1), mRNA [NM_021041]	NM_021041	-1.25561
Mus musculus tumor necrosis factor receptor superfamily, member 13c (Tnfrsf13c), mRNA [NM_028075]	NM_028075	-1.15635
Mus musculus serum/glucocorticoid regulated kinase (Sgk), mRNA [NM_011361]	NM_011361	-1.31596
Ribonuclease P/MRP 38 subunit (human)	AK087782	-1.16194
Mus musculus Hus1 homolog (S. pombe) (Hus1), mRNA [NM_008316]	NM_008316	-1.16946
Mus musculus leucine zipper transcription factor-like 1 (Lztl1), mRNA [NM_033322]	NM_033322	-1.26954
Mus musculus Bardet-Biedl syndrome 2 homolog (human) (Bbs2), mRNA [NM_026116]	NM_026116	1.17155
Mus musculus tektin 1 (Tekt1), mRNA [NM_011569]	NM_011569	-1.28783
Mus musculus cDNA sequence BC018371 (BC018371), mRNA [NM_153807]	NM_153807	1.15415
V-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog	NM_021284	1.04991
Mus musculus DNA segment, Chr 9, Brigham & Women's Genetics 0185 expressed sequence tag	NM_173781	1.12944
Mus musculus RIKEN cDNA 1110035L05 gene (1110035L05Rik), mRNA [NM_026125]	NM_026125	-1.05781
Mus musculus heterogeneous nuclear ribonucleoprotein H1 (Hnrph1), mRNA [NM_021510]	NM_021510	-1.51893
Mus musculus formin 2 (Fmn2), mRNA [NM_019445]	NM_019445	1.01467
Mus sp. mRNA for oxytocin receptor, complete cds.	D86599	-1.16725
Mus musculus chloride channel Kb (Clcnkb), mRNA [NM_019701]	NM_019701	-1.08199
Mus musculus cadherin 11 (Cdh11), mRNA [NM_009866]	NM_009866	-1.46458
hypothetical protein A930010C09	NM_175447	1.04516
Mus musculus L-threonine dehydrogenase (Tdh), mRNA [NM_021480]	NM_021480	1.03394
Mus musculus ect2 oncogene (Ect2), mRNA [NM_007900]	NM_007900	-1.27089
Expressed sequence AI835086	AK043585	1.00039
Mus musculus topoisomerase (DNA) I (Top1), mRNA [NM_009408]	NM_009408	-1.07723
Mus musculus L-amino acid oxidase 1 (Lao1), mRNA [NM_133892]	NM_133892	-1.00943
Cellular repressor of E1A-stimulated genes 1	AK010947	-1.08017
Signal peptidase complex subunit 3 homolog (S. cerevisiae)	AK048051	-1.32785
Mus musculus suppression of tumorigenicity 5 (St5), mRNA [NM_001001326]	NM_001001326	1.0593
Mus musculus transient receptor potential cation channel, subfamily V, member 1	NM_022413	-1.04
Histone deacetylase 9	AK014845	-1.29127
Zinc finger, DHHC domain containing 25	AK006552	1.08865
RIKEN cDNA A430108B07 gene	AK084712	-1.19039
Mus musculus retinoid X receptor gamma (Rrxg), mRNA [NM_009107]	NM_009107	-1.00153
Mus musculus acylphosphatase 2, muscle type (Acyp2), mRNA [NM_029344]	NM_029344	-1.6958
Mus musculus TAF5-like RNA polymerase II, p300/CBP-associated factor (PCAF), mRNA [NM_133966]	NM_133966	1.09894
Mus musculus olfactory receptor 518 (Olfr518), mRNA [NM_146306]	NM_146306	-1.01869
Mus musculus olfactory receptor 510 (Olfr510), mRNA [NM_146311]	NM_146311	1.03741
Dual specificity phosphatase 12	AK010841	1.09798
Mus musculus interferon gamma induced GTPase (Igtg), mRNA [NM_018738]	NM_018738	1.0169
Mus musculus similar to NADH-ubiquinone oxidoreductase 13 kDa-A subunit, mRNA [XM_354775]	XM_354775	-1.26614
Mus musculus serine (or cysteine) proteinase inhibitor, clade C (antithrombin), member 1	NM_080844	1.06314
TAF4A RNA polymerase II, TATA box binding protein (TBP)-associated factor	AY038601	-1.09438
Zinc finger, CCHC domain containing 6	AK031537	-1.05746
Mus musculus RIKEN cDNA 2500003M10 gene (2500003M10Rik), mRNA [NM_023215]	NM_023215	-1.12908
Mus musculus tubulin, beta 2 (Tubb2), mRNA [NM_009450]	NM_009450	1.00476
F-box and WD-40 domain protein 7, archipelago homolog (Drosophila)	NM_080428	-1.0523
Mus musculus expressed sequence AI413782 (AI413782), mRNA [NM_134044]	NM_134044	-1.04882
Mus musculus RAD51-like 1 (S. cerevisiae) (Rad51l1), mRNA [NM_009014]	NM_009014	-1.11303
CDNA sequence BC057079	AK033780	-1.44455
RIKEN cDNA 2610029I01 gene	AK011611	-1.03351
Mus musculus RIKEN cDNA 2700050C12 gene (2700050C12Rik), mRNA [NM_145100]	NM_145100	-1.01495

Mus musculus leukotriene B4 12-hydroxydehydrogenase (Ltb4dh), mRNA [NM_025968]	NM_025968	-1.56124
Mus musculus Casitas B-lineage lymphoma-like 1 (Cbl1), mRNA [NM_134048]	NM_134048	-1.09004
RIKEN cDNA 1500034E06 gene	AK018782	-1.16359
Mus musculus vitelliform macular dystrophy 2-like protein 1 (Vmd2l1), mRNA [NM_145388]	NM_145388	1.0144
Mus musculus chloride channel 5 (Clcn5), mRNA [NM_016691]	NM_016691	-1.10773
Protein phosphatase 1K (PP2C domain containing)	NM_175523	1.02155
RIKEN cDNA A030007L17 gene	AK028830	1.0208
Mus musculus proteasome (prosome, macropain) subunit, beta type 5 (Psm5), mRNA [NM_011186]	NM_011186	-1.15374
Mus musculus nuclear receptor subfamily 1, group I, member 3 (Nr1i3), mRNA [NM_009803]	NM_009803	1.16742
RIKEN cDNA 1810049H19 gene	AK007843	1.05473
RIKEN cDNA 4930579G24 gene	AK016321	1.0622
Mus musculus programmed cell death 2 (Pcd2), mRNA [NM_008799]	NM_008799	-1.23691
Target of myb1-like 2 (chicken)	AK054531	1.07069
Mus musculus four and a half LIM domains 1 (Fhl1), mRNA [NM_010211]	NM_010211	-1.34821
Mus musculus potassium voltage-gated channel, Isk-related family, member 1-like 1 (Kcnc1), mRNA [NM_021487]	NM_021487	-1.08041
Mus musculus phenylalanine hydroxylase (Pah), mRNA [NM_008777]	NM_008777	1.03847
Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library clone	AK037673	1.07571
Mus musculus interleukin 4 receptor, alpha (Il4ra), mRNA [NM_010557]	NM_010557	1.17699
Mus musculus hydroxyprostaglandin dehydrogenase 15 (NAD) (Hpgd), mRNA [NM_008278]	NM_008278	-1.41206
Mus musculus G protein pathway suppressor 2 (Gps2), mRNA [NM_019726]	NM_019726	1.14083
Mus musculus tumor differentially expressed 2 (Tde2), mRNA [NM_019760]	NM_019760	-1.61951
Mus musculus 5-azacytidine induced gene 2 (Azi2), mRNA [NM_013727]	NM_013727	-1.60469
YEATS domain containing 2	AK085206	1.01239
RIKEN cDNA B430108F07 gene	AK029118	1.0284
Mus musculus olfactory receptor 1411 (Olfr1411), mRNA [NM_146490]	NM_146490	-1.09576
Histamine receptor H2	NM_008286	1.09214
NP_065649.1 hypothetical protein [Mus musculus] [NP378353]		1.20779
Kinesin family member 1A	NM_008440	-1.01148
Mus musculus PDZ and LIM domain 7 (Pdlim7), mRNA [NM_026131]	NM_026131	1.10559
Mus musculus Ngg1 interacting factor 3-like 1 (S. pombe) (Nif3l1), mRNA [NM_022988]	NM_022988	-1.11231
Mus musculus mitochondrial ribosomal protein L13 (Mrpl13), mRNA [NM_026759]	NM_026759	-1.44018
Mus musculus DNA segment, Chr 3, Brigham & Women's Genetics 0562 expressed sequence	NM_177664	1.06477
Mus musculus RIKEN cDNA 5530401N06 gene (5530401N06Rik), mRNA [XM_147288]	XM_147288	1.04787
Mus musculus RIKEN cDNA 4930433N12 gene (4930433N12Rik), mRNA [NM_053265]	NM_053265	1.00104
Mus musculus macrophage erythroblast attachment factor 1 (Mae1), mRNA [NM_021500]	NM_021500	1.10963
Mus musculus homeobox B5 (Hoxb5), mRNA [NM_008268]	NM_008268	1.02319
Mus musculus phosphatase and tensin homolog (Pten), mRNA [NM_008960]	NM_008960	1.17017
RIKEN cDNA 1810013D15 gene	AK007475	1.10128
OLFACTORY RECEPTOR GA_X6K02T2NHDJ-9643949-9642957. [Source:SPTREMBL;Acc:CC		1.04483
Mus musculus RIKEN cDNA E430026E19 gene (E430026E19Rik), mRNA [NM_146008]	NM_146008	-1.05227
Mus musculus RIKEN cDNA 1500002M01 gene (1500002M01Rik), mRNA [NM_133702]	NM_133702	-1.236
Mus musculus insulin receptor-related receptor (Insrr), mRNA [NM_011832]	NM_011832	1.19373
Mus musculus glutamate receptor, ionotropic, kainate 5 (gamma 2) (Grik5), mRNA [NM_008168]	NM_008168	1.14221
Mus musculus threonyl-tRNA synthetase (Tars), mRNA [NM_033074]	NM_033074	-1.23565
Expressed sequence AW146020	AK038369	-1.20549
Mus musculus heat shock protein 1 (chaperonin 10) (Hspe1), mRNA [NM_008303]	NM_008303	-1.59355
Mus musculus expressed sequence AL033326 (AL033326), mRNA [NM_019705]	NM_019705	1.28551
Mus musculus cysteine rich protein 2 (Crip2), mRNA [NM_024223]	NM_024223	1.05868
Mus musculus ubiquitin specific protease 1 (Usp1), mRNA [NM_146144]	NM_146144	-1.86837
Similar to keratin associated protein 9-1; keratin-associated protein 9.1; keratin-associated protein 9.1	AK029194	1.04264
Mus musculus complement component 4 (within H-2S) (C4), mRNA [NM_009780]	NM_009780	-1.03916
Mus musculus open reading frame 21 (ORF21), mRNA [NM_145482]	NM_145482	-1.10352

Mus musculus RIKEN cDNA 4930578C19 gene (4930578C19Rik), mRNA [NM_	NM_175228	-1.19452
Mus musculus histocompatibility 2, Q region locus 7 (H2-Q7), mRNA [NM_0103	NM_010394	1.22371
RIKEN cDNA 1810011H11 gene	AK014636	1.08114
Mus musculus RIKEN cDNA 3000003F02 gene (3000003F02Rik), mRNA [NM_	NM_172437	-1.22393
Mus musculus eomesodermin homolog (Xenopus laevis) (Eomes), mRNA [NM_	NM_010136	-1.11258
Mus musculus zinc finger, CCHC domain containing 9 (Zcchc9), mRNA [NM_14	NM_145453	-1.27711
Mus musculus neuroblastoma myc-related oncogene 1 (Nmyc1), mRNA [NM_0	NM_008709	1.18908
RIKEN cDNA 1700019B03 gene	AK006106	1.07446
RIKEN cDNA D730044K07 gene	CA495516	1.12744
Mus musculus solute carrier family 6 (neurotransmitter transporter, betaine/GAB	NM_133661	1.10177
Mus musculus lactoperoxidase (Lpo), mRNA [NM_080420]	NM_080420	1.26252
Mus musculus DNA segment, Chr 10, ERATO Doi 438, expressed (D10Erd438	NM_030250	-1.06145
Mus musculus gonadotropin releasing hormone receptor (Gnrhr), mRNA [NM_0	NM_010323	1.04613
Mus musculus spermatogenesis associated, serine-rich 1 (Spats1), mRNA [NM_	NM_027649	1.10842
Striatin, calmodulin binding protein	AK032712	-1.09123
Mus musculus olfactory receptor 30 (Olfr30), mRNA [NM_146878]	NM_146878	1.07903
RIKEN cDNA 4930562C15 gene	AK019778	1.09211
Mus musculus cappuccino (Cno), mRNA [NM_133724]	NM_133724	-1.00188
RIKEN cDNA 2610028H07 gene	BC006738	-1.04654
Mus musculus WD repeat domain 23 (Wdr23), mRNA [NM_133734]	NM_133734	1.11168
Gene model 1132, (NCBI)	AK084245	1.04457
Ornithine decarboxylase antizyme 3	CA326272	1.05074
Mus musculus heat shock 70kD protein 5 (glucose-regulated protein) (Hspa5), r	NM_022310	-1.23852
Mus musculus serine protease inhibitor, Kunitz type 2 (Spint2), mRNA [NM_011	NM_011464	-1.39992
RIKEN cDNA 4930451C15 gene	AK039092	-1.00396
Mus musculus pantothenate kinase 4 (Pank4), mRNA [NM_172990]	NM_172990	1.03863
Mus musculus kinesin family member 18A (Kif18a), mRNA [NM_139303]	NM_139303	-1.08267
RIKEN cDNA A130095M15 gene	X03802	1.13759
similar to PUTATIVE LAG1-INTERACTING PROTEIN (FRAGMENT) [Homo sapiens] [1810053		-1.19326
Mus musculus myelin protein zero-like 1 (Mpzl1), mRNA [NM_001001880]	NM_00100188	-1.19113
Group specific component	BC051395	1.06957
Mus musculus choline acetyltransferase (Chat), mRNA [NM_009891]	NM_009891	-1.03597
Mus musculus dual specificity phosphatase 10 (Dusp10), mRNA [NM_022019]	NM_022019	-1.38007
Mus musculus olfactory receptor 155 (Olfr155), mRNA [NM_019473]	NM_019473	1.17601
Mus musculus RIKEN cDNA 1700020C11 gene (1700020C11Rik), mRNA [NM_	NM_026443	-1.11455
Dedicator of cytokinesis 8	AK035336	1.09318
Mus musculus expressed sequence AI790298 (AI790298), mRNA [NM_134148	NM_134148	-1.10093
Mus musculus RIKEN cDNA 0610010K14 gene (0610010K14Rik), mRNA [NM_	NM_026757	1.01522
RIKEN cDNA 4931403E03 gene	AK016425	1.00927
Mus musculus hydroxysteroid (17-beta) dehydrogenase 7 (Hsd17b7), mRNA [N	NM_010476	1.08156
RIKEN cDNA E030049G20 gene	AK033083	1.07187
Mus musculus RIKEN cDNA 6430596G11 gene (6430596G11Rik), mRNA [NM_	NM_172739	-1.31498
Mus musculus BCL2-antagonist/killer 1 (Bak1), mRNA [NM_007523]	NM_007523	-1.04479
NADH dehydrogenase (ubiquinone) Fe-S protein 3	AK002501	-1.32233
RIKEN cDNA D530043N20 gene	NM_010230	1.05745
C-type lectin domain family 1, member b	NM_019985	-1.48582
Mus musculus contactin 6 (Cntn6), mRNA [NM_017383]	NM_017383	-1.40546
Mus musculus Jun oncogene (Jun), mRNA [NM_010591]	NM_010591	-1.5635
hypothetical protein A630026L20	AK041647	1.10568
Mus musculus RIKEN cDNA 2010305A19 gene (2010305A19Rik), mRNA [NM_	NM_027250	-1.07139
Solute carrier family 25 (mitochondrial carrier, ornithine transporter) member 2	AK077159	1.05634
Mus musculus ATPase, aminophospholipid transporter-like, class I, type 8A, me	NM_015803	1.0072

Mus musculus thymopoietin (Tmpe), mRNA [NM_011605]	NM_011605	-1.1174
Mus musculus potassium inwardly-rectifying channel, subfamily J, member 12 (INM_010603)	INM_010603	-1.24661
Mus musculus RIKEN cDNA 5730420B22 gene (5730420B22Rik), mRNA [NM_0172597]	NM_0172597	-1.06847
Mus musculus F-box only protein 16 (Fbxo16), mRNA [NM_015795]	NM_015795	-1.06014
RIKEN cDNA 4930408G06 gene	AK015211	1.00644
Mus musculus small muscle protein, X-linked (Smpx), mRNA [NM_025357]	NM_025357	-1.48065
Katanin p80 (WD40-containing) subunit B 1	BC024500	1.17951
Mus musculus hypothetical gene supported by BC024441; BC025912 (LOC224387)	XM_148506	-1.01289
CDNA sequence BC056485	BC056485	1.13396
formin-family protein FHOS2	AK040234	-1.14617
RIKEN cDNA E030024N20 gene	AK053172	-1.01754
Titin	BC025840	-1.0185
Mus musculus G protein-coupled receptor 84 (Gpr84), mRNA [NM_030720]	NM_030720	-1.08358
Mus musculus angiotensin receptor-like 1 (Agtrl1), mRNA [NM_011784]	NM_011784	1.05852
RIKEN cDNA C130081A10 gene	AK081838	1.10187
Leucyl-tRNA synthetase	AK009823	-1.18405
Signal-regulatory protein beta	AK054545	-1.36839
Immunoglobulin lambda chain, variable 1	AJ291694	-1.03879
Mus musculus chemokine-like factor super family 6 (Cklfsf6), mRNA [NM_026036]	NM_026036	1.12716
Sperm associated antigen 16	AK016618	1.06129
Mus musculus DNA segment, Chr 2, ERATO Doi 145, expressed (D2Ert145e), mRNA [NM_175238]	NM_175238	-1.70593
Mus musculus homeobox gene HB9 (Hlx9), mRNA [NM_019944]	NM_019944	1.03367
Mus musculus flotillin 2 (Flot2), mRNA [NM_008028]	NM_008028	1.03136
Ceroid-lipofuscinosis, neuronal 5	AK032293	-1.15887
Mus musculus telomerase associated protein 1 (Tep1), mRNA [NM_009351]	NM_009351	-1.30648
Mus musculus adult male spinal cord cDNA, RIKEN full-length enriched library, clone AK079640	AK079640	1
Mus musculus non-POU-domain-containing, octamer binding protein (Nono), mRNA [NM_023144]	NM_023144	-1.04902
Mus musculus THAP domain containing 11 (Thap11), mRNA [NM_021513]	NM_021513	-1.04113
Purine rich element binding protein B	AK009365	-1.23307
RIKEN cDNA 1110032O16 gene	BC046763	-1.09398
Mus musculus RIKEN cDNA 9030611N15 gene (9030611N15Rik), mRNA [NM_0134072]	NM_0134072	-1.78311
Mus musculus glycoprotein (transmembrane) nmb (Gpnmb), mRNA [NM_053111]	NM_053111	-1.12288
Mus musculus nucleolar protein 5 (Nol5), mRNA [NM_018868]	NM_018868	-1.30413
Mus musculus B-cell leukemia/lymphoma 2 related protein A1b (Bcl2a1b), mRNA [NM_007534]	NM_007534	-1.35475
Mus musculus sortilin 1 (Sort1), mRNA [NM_019972]	NM_019972	1.07043
REC8-like 1 (yeast)	NM_020002	1.20022
Mus musculus expressed sequence AW210596 (AW210596), mRNA [NM_172838]	NM_172838	-1.11319
Mus musculus C1q and tumor necrosis factor related protein 7 (C1qtnf7), mRNA [NM_175425]	NM_175425	-1.16567
Mus musculus RIKEN cDNA 4833414E09 gene (4833414E09Rik), mRNA [NM_027845]	NM_027845	1.26198
Mus musculus 3-hydroxyisobutyryl-Coenzyme A hydrolase (Hibch), mRNA [NM_146108]	NM_146108	-1.11689
Polymerase (RNA) II (DNA directed) polypeptide L	AK011021	-1.20254
Mus musculus RIKEN cDNA 4930500O09 gene (4930500O09Rik), mRNA [XM_131470]	XM_131470	1.0076
Mus musculus glycine receptor, alpha 1 subunit (Glr1), mRNA [NM_020492]	NM_020492	1.12453
Protein kinase, cAMP dependent regulatory, type II beta	BC048710	-1.48313
Similar to tumor necrosis factor receptor superfamily, member 19-like	AK039174	1.07259
Mus musculus glutathione S-transferase, mu 3 (Gstm3), mRNA [NM_010359]	NM_010359	1.05836
RIKEN cDNA A430107O13 gene	AK040587	1.09354
Mus musculus 0 day neonate head cDNA, RIKEN full-length enriched library, clone AK014660	AK014660	1.01824
CaM kinase-like vesicle-associated	AK085143	1.11824
Mus musculus RIKEN cDNA 1700021P22 gene (1700021P22Rik), mRNA [XM_133423]	XM_133423	-1.04974

Mus musculus 2'-5' oligoadenylate synthetase 1D (Oas1d), mRNA [NM_133893]	NM_133893	-1.04496
Mus musculus DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 26 (Ddx26), mRNA [NM_008715]	NM_008715	-1.36864
liver-expressed antimicrobial peptide 2	NM_153069	-1.05545
Thyroid hormone receptor interactor 13	AK010336	-1.10745
Mus musculus RIKEN cDNA A930029B02 gene (A930029B02Rik), mRNA [NM_178779]	NM_178779	1.10793
HRAS like suppressor 3	AK052657	-1.03746
Mus musculus tumor necrosis factor (ligand) superfamily, member 5 (Tnfsf5), mRNA [NM_011616]	NM_011616	-1.01584
Mus musculus chemokine-like factor super family 5 (Cklfsf5), mRNA [NM_026066]	NM_026066	1.09515
Mus musculus RIKEN cDNA 1810009A15 gene (1810009A15Rik), mRNA [NM_025463]	NM_025463	-1.14743
Mus musculus carbohydrate sulfotransferase 10 (Chst10), mRNA [NM_145142]	NM_145142	1.09884
MAD2 (mitotic arrest deficient, homolog)-like 1 (yeast)	U83902	-1.08467
Mus musculus 10 days neonate cortex cDNA, RIKEN full-length enriched library	AK043575	1.0809
DEAD (Asp-Glu-Ala-Asp) box polypeptide 10	BC049261	-1.68023
Tudor and KH domain containing protein	AK012596	-1.5267
Mus musculus a disintegrin and metalloprotease domain 11 (Adam11), mRNA [NM_009613]	NM_009613	1.04563
RIKEN cDNA 2700049A03 gene	AK012399	-1.10828
Mus musculus expressed sequence AA407526 (AA407526), transcript variant 1	NM_172711	-1.40104
Mus musculus CD48 antigen (Cd48), mRNA [NM_007649]	NM_007649	-1.36052
Mus musculus nibrin (Nbn), mRNA [NM_013752]	NM_013752	-1.36808
hypothetical protein D630003M21	NM_177657	1.1357
Mus musculus claudin 1 (Cldn1), mRNA [NM_016674]	NM_016674	-1.13871
Mus musculus phytoceramide, alkaline (Phca), mRNA [NM_025408]	NM_025408	-1.14975
Mus musculus adult male urinary bladder cDNA, RIKEN full-length enriched library	AK020571	-1.07901
Mus musculus ribonuclease L (2', 5'-oligoadenylate synthetase-dependent) (F)	NM_011882	1.38825
Mus musculus olfactory receptor 131 (Olfr131), mRNA [NM_146867]	NM_146867	1.1027
Mus musculus centaurin, alpha 2 (Centa2), mRNA [NM_172133]	NM_172133	1.00728
Mus musculus LIM and senescent cell antigen-like domains 1 (Lims1), mRNA [NM_026148]	NM_026148	-1.06418
Mus musculus olfactory receptor 908 (Olfr908), mRNA [NM_146872]	NM_146872	1.02847
Mus musculus olfactory receptor 1339 (Olfr1339), mRNA [NM_146852]	NM_146852	1.07859
Mus musculus ephrin A1 (Efna1), mRNA [NM_010107]	NM_010107	1.04942
Mus musculus ubiquitin specific protease 16 (Usp16), mRNA [NM_024258]	NM_024258	-1.35992
RIKEN cDNA 2510003E04 gene	AK035659	1.03555
Developing brain homeobox 2	AK035803	1.17667
Mus musculus cyclin A2 (Ccna2), mRNA [NM_009828]	NM_009828	1.09603
Cyclin G associated kinase	AK034637	1.00995
Mus musculus smoothelin (Smtn), mRNA [NM_013870]	NM_013870	1.147
Mus musculus KH domain containing, RNA binding, signal transduction associated	NM_010158	-1.1952
Mus musculus Gem-interacting protein (Gmip), mRNA [NM_198101]	NM_198101	1.24014
Mus musculus trefoil factor 3, intestinal (Tff3), mRNA [NM_011575]	NM_011575	1.00347
Mus musculus RIKEN cDNA 6030441F14 gene (6030441F14Rik), mRNA [NM_172835]	NM_172835	1.08612
Mus musculus RAB3C, member RAS oncogene family (Rab3c), mRNA [NM_023852]	NM_023852	1.14101
Mus musculus RIKEN cDNA 2410043F08 gene (2410043F08Rik), mRNA [NM_133754]	NM_133754	1.0546
Mus musculus vomeronasal 1 receptor, G1 (V1rg1), mRNA [NM_145843]	NM_145843	1.03954
Mus musculus solute carrier family 2 (facilitated glucose transporter), member 1	NM_011400	-1.12366
Phosphoribosyl pyrophosphate amidotransferase	AK017664	-1.27585
Mus musculus glycoprotein galactosyltransferase alpha 1, 3 (Ggta1), mRNA [NM_010283]	NM_010283	-1.0745
Mus musculus MAD homolog 7 (Drosophila) (Smad7), mRNA [NM_008543]	NM_008543	-1.583
Mouse mRNA for poly (ADP-ribose) polymerase (EC 2.4.2.30).	X14206	1.00703
Mus musculus FK506 binding protein 11 (Fkbp11), mRNA [NM_024169]	NM_024169	-1.4835
Mus musculus karyopherin (importin) alpha 6 (Kpna6), mRNA [NM_008468]	NM_008468	-1.10221
Mus musculus olfactory receptor 362 (Olfr362), mRNA [NM_147051]	NM_147051	1.01423
Mus musculus zinc finger, DHHC domain containing 21 (Zdhhc21), mRNA [NM_026647]	NM_026647	-1.15321

Mus musculus olfactory receptor 109 (Olfr109), mRNA [NM_146835]	NM_146835	1.17898
SMC4 structural maintenance of chromosomes 4-like 1 (yeast)	AK048650	-1.34353
Mus musculus adipocyte, C1Q and collagen domain containing (Acdc), mRNA [NM_009605]	NM_009605	-1.12807
Mus musculus apolipoprotein B editing complex 1 (Apobec1), mRNA [NM_0311 NM_031159]	NM_031159	-1.10046
RIKEN cDNA 2410003B16 gene	AK010350	1.0035
Nur77 downstream gene 2	NM_175329	1.08123
Mus musculus prostaglandin I receptor (IP) (Ptgir), mRNA [NM_008967]	NM_008967	-1.05849
Mus musculus trans-acting transcription factor 4 (Sp4), mRNA [NM_009239]	NM_009239	-1.00438
Mus musculus eosinophil-associated, ribonuclease A family, member 6 (Ear6), r	NM_053111	-1.59081
Mus musculus RIKEN cDNA 1700017I11 gene (1700017I11Rik), mRNA [NM_025491]	NM_025491	-1.02551
Mus musculus G protein-coupled receptor 73-like 1 (Gpr73l1), mRNA [NM_144944]	NM_144944	1.1466
Mus musculus complement component factor h-like 1 (Cfh1), mRNA [NM_015780]	NM_015780	1.10977
APG4 (ATG4) autophagy-related homolog C (S. cerevisiae)	AK086905	1.12144
Mus musculus nucleosome assembly protein 1-like 1 (Nap1l1), mRNA [NM_015781]	NM_015781	-1.67247
Mus musculus leucine rich repeat containing 3B (Lrrc3b), mRNA [NM_146052]	NM_146052	1.23443
Mus musculus zinc finger, CW type with PWWP domain 1 (Zcwpw1), mRNA.	XM_355653	1.16005
Mus musculus tumor protein D52 (Tpd52), mRNA [NM_009412]	NM_009412	-1.20109
Mus musculus hydroxysteroid (17-beta) dehydrogenase 3 (Hsd17b3), mRNA [NM_008291]	NM_008291	1.05927
Mus musculus glypican 1 (Gpc1), mRNA [NM_016696]	NM_016696	-1.07773
Mus musculus pogo transposable element with ZNF domain (Pogz), mRNA [NM_172683]	NM_172683	-1.44045
Mus musculus SGT1, suppressor of G2 allele of SKP1 (S. cerevisiae) (Sugt1), n	NM_026474	-1.49686
Mus musculus ADP-ribosyltransferase 5 (Art5), mRNA [NM_007491]	NM_007491	1.06212
Splicing factor, arginine/serine-rich 6	AK004831	-1.27673
Mus musculus adenosine monophosphate deaminase 2 (isoform L) (Ampd2), m	NM_028779	-1.04526
Glutaminyl-peptide cyclotransferase (glutaminyl cyclase)	BC020023	-1.17102
ATP-binding cassette, sub-family C (CFTR/MRP), member 8	AF213386	1.15486
Mus musculus calmodulin binding protein 1 (Calmbp1), mRNA [NM_009791]	NM_009791	1.06124
Mus musculus RIKEN cDNA 2810468K17 gene (2810468K17Rik), mRNA [NM_028369]	NM_028369	1.13909
Mus musculus translocase of outer mitochondrial membrane 34 (Tomm34), mR	NM_025996	1.0181
Mus musculus olfactory receptor 1015 (Olfr1015), mRNA [NM_146571]	NM_146571	1.04801
Imprinted gene in the Prader-Willi syndrome region	AK045353	1.18599
Mus musculus RIKEN cDNA 1110005F07 gene (1110005F07Rik), mRNA [NM_025383]	NM_025383	1.08266
Unknown		-1.0439
Mus musculus RIKEN cDNA 1810054O13 gene (1810054O13Rik), mRNA [NM_026436]	NM_026436	1.02856
Mus musculus RIKEN cDNA 2700023B17 gene (2700023B17Rik), mRNA [NM_025948]	NM_025948	-1.29707
Mus musculus mitogen activated protein kinase kinase kinase 12 (Map3k12), m	NM_009582	-1.09109
Mus musculus eukaryotic translation initiation factor 2, subunit 3, structural gene	NM_012011	-1.78791
Mus musculus RIKEN cDNA 2310032D16 gene (2310032D16Rik), mRNA [NM_028802]	NM_028802	-1.65703
Mus musculus RIKEN cDNA 9030612E09 gene (9030612E09Rik), mRNA [NM_172419]	NM_172419	-1.0052
Mus musculus selenoprotein N, 1 (Sepn1), mRNA [NM_029100]	NM_029100	1.02972
Mus musculus ADP-ribosylation factor-like 2 binding protein (Arl2bp), mRNA [NM_024191]	NM_024191	-1.49038
Mus musculus human immunodeficiency virus type I enhancer binding protein 1	NM_007772	1.13682
Mus musculus olfactory receptor 1100 (Olfr1100), mRNA [NM_146594]	NM_146594	1.126
Mus musculus olfactory receptor 623 (Olfr623), mRNA [NM_147122]	NM_147122	-1.01446
Mus musculus RIKEN cDNA 0610041E09 gene (0610041E09Rik), mRNA [NM_025335]	NM_025335	-1.13619
Mus musculus RIKEN cDNA 5730466C23 gene (5730466C23Rik), mRNA [NM_027469]	NM_027469	1.13444
Mus musculus t-complex-associated-testis-expressed 1-like (Tcte1l), mRNA [NM_025975]	NM_025975	-2.28309
Mus musculus RIKEN cDNA 2600011C06 gene (2600011C06Rik), mRNA [NM_025930]	NM_025930	-1.45056
RIKEN cDNA 1700020O03 gene	AK032063	-1.07406
Mus musculus pannexin 1 (Panx1), mRNA [NM_019482]	NM_019482	-1.11792
c-maf=c-Maf protein {proto-oncogene} [mice, BALB/c, cerebellum, mRNA, 2736	S74567	1.04516
RIKEN cDNA 4930444G20 gene	AK015380	1.13599

Mus musculus glutamate receptor, ionotropic, N-methyl D-aspartate-associated 1 (NMDAR1), mRNA [NM_023168]	NM_023168	1.30613
Mus musculus RIKEN cDNA 3110079L04 gene (3110079L04Rik), mRNA [NM_183392]	NM_183392	-1.20443
Mus musculus solute carrier family 25 (mitochondrial carrier, citrate transporter), RIKEN cDNA 2810408A11 gene	NM_153150 BC055710	1.01207 -1.0729
Sine oculis-related homeobox 3 homolog (Drosophila)	NM_011381	-1.14427
Mus musculus cDNA sequence AF397014 (AF397014), mRNA [NM_138654]	NM_138654	-1.1917
WD repeat and FYVE domain containing 3	AB093277	-1.23835
Mus musculus adrenomedullin receptor (Admr), mRNA [NM_007412]	NM_007412	-1.60818
Mus musculus START domain containing 7 (Stard7), mRNA [NM_139308]	NM_139308	-1.06539
Mus musculus outer dense fiber of sperm tails 4 (Odf4), mRNA [NM_145746]	NM_145746	1.10886
Mus musculus proviral integration site 2 (Pim2), mRNA [NM_138606]	NM_138606	1.08668
Mus musculus RIKEN cDNA 2600010E01 gene (2600010E01Rik), mRNA [NM_175181]	NM_175181	1.18783
Mus musculus olfactory receptor 389 (Olfr389), mRNA [NM_147009]	NM_147009	1.06656
Mus musculus olfactory receptor 729 (Olfr729), mRNA [NM_146278]	NM_146278	1.06757
Mus musculus tryptase gamma 1 (Tpsg1), mRNA [NM_012034]	NM_012034	1.01542
Mus musculus RIKEN cDNA 2410021P16 gene (2410021P16Rik), mRNA [NM_028037]	NM_028037	-1.06655
Mus musculus fatty acid desaturase 1 (Fads1), mRNA [NM_146094]	NM_146094	1.00162
Mus musculus zinc finger protein 179 (Zfp179), mRNA [NM_009548]	NM_009548	1.0902
RNA binding motif protein 3	AK007354	-1.83023
Mus musculus polyglutamine binding protein 1 (Pqbp1), mRNA [NM_019478]	NM_019478	-1.04192
RIKEN cDNA 0610010I15 gene	AK085411	1.04723
Mus musculus lymphotoxin A (Lta), mRNA [NM_010735]	NM_010735	1.01825
Mus musculus microtubule-associated protein 6 (Mtap6), mRNA [NM_010837]	NM_010837	1.05646
Mus musculus Usher syndrome 1C binding protein 1 (Ushbp1), mRNA [NM_181141]	NM_181141	1.33026
Mus musculus sorting nexin 17 (Snx17), mRNA [NM_153680]	NM_153680	1.0088
hypothetical protein 4930509O22	NM_172504	1.004
Mus musculus nucleolar protein 4 (Nol4), mRNA [NM_199024]	NM_199024	-1.01315
Mus musculus actin, gamma 2, smooth muscle, enteric (Actg2), mRNA [NM_009610]	NM_009610	1.16638
Mus musculus RIKEN cDNA 2410030J07 gene (2410030J07Rik), mRNA [NM_144527]	NM_144527	1.05156
RIKEN cDNA 2310014L17 gene	AK028523	1.07129
Rho GTPase activating protein 15	BC024887	-1.19542
Mus musculus nucleoporin 37 (Nup37), mRNA [NM_028334]	NM_028334	-1.48815
Mus musculus RIKEN cDNA 4930544G11 gene (4930544G11Rik), mRNA [NM_026294]	NM_026294	-1.33171
Mus musculus clone MBI-134 H/ACA box snoRNA, partial sequence.	AF357420	-1.0124
Mus musculus myc-like oncogene, s-myc protein (Mycs), mRNA [NM_010850]	NM_010850	1.02835
Mus musculus leucine-rich and death domain containing (Lrdd), mRNA [NM_022654]	NM_022654	1.13399
Mus musculus dyslexia susceptibility 1 candidate 1 homolog (human) (Dyx1c1), mRNA [NM_026314]	NM_026314	-1.31284
Mus musculus anthrax toxin receptor 2 (Antxr2), mRNA [NM_133738]	NM_133738	-1.16773
Mus musculus zinc finger homeobox 1b (Zfhx1b), mRNA [NM_015753]	NM_015753	1.046
Mus musculus asrij protein (Asrij), mRNA [NM_023429]	NM_023429	-2.30921
RIKEN cDNA A030005L19 gene	AK020696	1.03882
Mus musculus nuclear receptor subfamily 1, group H, member 4 (Nr1h4), mRNA [NM_009108]	NM_009108	1.12565
RIKEN cDNA A930031L14 gene	AK076730	1.10488
Mus musculus minichromosome maintenance deficient 6 (MIS5 homolog, S. pombe) (Mim5), mRNA [NM_008567]	NM_008567	-1.04078
AF353167 ring finger protein {Mus musculus}, complete [TC1075975]		-1.1089
Mus musculus wingless-related MMTV integration site 5B (Wnt5b), mRNA [NM_009525]	NM_009525	-1.03799
Mus musculus tetratricopeptide repeat domain 3 (Ttc3), mRNA [NM_009441]	NM_009441	-1.3122
RIKEN cDNA 2310014H01 gene	AK051656	-1.04126
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK017111		-1.00321
Mus musculus UDP-glucose dehydrogenase (Ugdh), mRNA [NM_009466]	NM_009466	-1.34099
Mus musculus DNA segment, Chr 7, ERATO Doi 743, expressed (D7Erttd743e), mRNA [NM_153525]	NM_153525	-1.05902
Mus musculus RIKEN cDNA 2610034N24 gene (2610034N24Rik), mRNA [NM_027256]	NM_027256	1.01622

Mus musculus olfactory receptor 472 (Olfr472), mRNA [NM_146774]	NM_146774	1.03237
Mus musculus O-acyltransferase (membrane bound) domain containing 1 (Oact)	NM_153546	-1.16878
Adaptor protein complex AP-1, gamma 1 subunit	AK037086	-1.06726
Mus musculus RIKEN cDNA D130006K24 gene (D130006K24Rik), mRNA [NM_NM_175006]		1.11509
Mus musculus RIKEN cDNA 6620401K05 gene (6620401K05Rik), mRNA [NM_NM_172774]		-1.1215
Mus musculus NIMA (never in mitosis gene a)- related kinase 11 (Nek11), mRN	NM_172461	1.06524
Mus musculus RIKEN cDNA 2900052E22 gene (2900052E22Rik), mRNA [NM_NM_182993]		1.08752
RIKEN cDNA 2810013C04 gene	AK012891	-1.04787
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 47 (Ddx47), mRNA [NI	NM_026360	-1.26797
Mus musculus kinesin family member 6 (Kif6), mRNA [NM_177052]	NM_177052	-1.29693
Mus musculus RIKEN cDNA E130309D02 gene (E130309D02Rik), mRNA [NM_NM_172726]		-1.20958
Mus musculus peroxin 2 (Pex2), mRNA [NM_021483]	NM_021483	1.04698
Mus musculus oxysterol binding protein-like 10 (Osbp10), mRNA [NM_148958]	NM_148958	-1.21625
Mus musculus voltage-dependent anion channel 3 (Vdac3), mRNA [NM_011696]	NM_011696	-1.42894
Mus musculus RIKEN cDNA 2810429O05 gene (2810429O05Rik), mRNA [NM_NM_134046]		-1.15972
RIKEN cDNA 1700069O15 gene	BC068184	-1.01239
Mus musculus sideroflexin 4 (Sfxn4), mRNA [NM_053198]	NM_053198	1.01603
Mus musculus trophoblast specific protein alpha (Tpbpa), mRNA [NM_009411]	NM_009411	-1.01634
Mus musculus pancreatic lipase related protein 1 (Pnliprp1), mRNA [NM_01887	NM_018874	1.13604
Mus musculus testis expressed gene 16 (Tex16), mRNA [NM_031382]	NM_031382	-1.00326
Mus musculus RIKEN cDNA 5330439B14 gene (5330439B14Rik), mRNA [NM_NM_177314]		-1.04519
Mus musculus Mpv17 transgene, kidney disease mutant-like (Mpv17l), mRNA [†	NM_033564	-1.15222
Mus musculus ribosomal protein S12 (Rps12), mRNA [NM_011295]	NM_011295	-1.07917
RIKEN cDNA 9130404H23 gene	AK018663	1.21291
Mus musculus arginine vasopressin receptor 2 (Avpr2), mRNA [NM_019404]	NM_019404	1.12037
Mus musculus DNA segment, Chr 16, Brigham & Women's Genetics 1016 expr	NM_177472	-1.08091
Mus musculus McKusick-Kaufman syndrome protein (Mkks), mRNA [NM_02152	NM_021527	-1.59491
Leiomodin 2 (cardiac)	AF237628	-1.26759
CDNA sequence BC013672	AK036495	1.00968
Mus musculus defensin related cryptdin, related sequence 7 (Defcr-rs7), mRNA	NM_007848	1.0166
Mus musculus erythrocyte protein band 4.1 (Epb4.1), mRNA [NM_183428]	NM_183428	-1.01291
Mus musculus endothelin converting enzyme-like 1 (Ecel1), mRNA [NM_02130	NM_021306	1.02562
RIKEN cDNA A930005K07 gene	AK011787	1.02193
Mus musculus RIKEN cDNA 9230101H05 gene (9230101H05Rik), mRNA [NM_NM_177905]		-1.16289
Mus musculus F-box only protein 4 (Fbxo4), mRNA [NM_134099]	NM_134099	-1.20708
Mus musculus queuine tRNA-ribosyltransferase 1 (Qtrt1), mRNA [NM_021888]	NM_021888	-1.01018
Mus musculus cytochrome P450, family 2, subfamily b, polypeptide 19 (Cyp2b1)	NM_007814	1.09774
Musashi homolog 1(Drosophila)	AK019590	1.10488
Mus musculus RIKEN cDNA D930016N04 gene (D930016N04Rik), mRNA [NM_NM_183185]		-1.01061
Mus musculus cytochrome c oxidase, subunit VIIa 1 (Cox7a1), mRNA [NM_009	NM_009944	-1.01609
Mus musculus inositol polyphosphate-5-phosphatase F (Inpp5f), mRNA [NM_17	NM_178641	-1.02603
Mus musculus serine carboxypeptidase 1 (Scpep1), mRNA [NM_029023]	NM_029023	1.07028
Mus musculus ankyrin repeat and FYVE domain containing 1 (Ankfy1), mRNA [†	NM_009671	-1.06741
Mus musculus RIKEN cDNA C030039L03 gene (C030039L03Rik), mRNA [NM_NM_198417]		1.075
RIKEN cDNA E430036I04 gene	NM_133897	-1.01174
Mus musculus RIKEN cDNA 1810009B06 gene (1810009B06Rik), mRNA [NM_NM_026192]		1.12526
Mus musculus Tnf receptor-associated factor 5 (Traf5), mRNA [NM_011633]	NM_011633	-1.03958
Mus musculus RIKEN cDNA 4732496O08 gene (4732496O08Rik), mRNA [NM_NM_172877]		-1.5989
CDNA sequence BC016201	NM_145601	1.21382
Mus musculus adenosine kinase (Adk), mRNA [NM_134079]	NM_134079	-1.42743
Mus musculus RIKEN cDNA 4930522D07 gene (4930522D07Rik), mRNA [NM_NM_026261]		-1.02786
Mus musculus hypothetical protein LOC329693 (LOC329693), mRNA [NM_183	NM_183222	1.03406

Mus musculus Mblk1-related protein-1 (Mir1), mRNA [NM_178142]	NM_178142	1.01142
Mus musculus FXYD domain-containing ion transport regulator 6 (Fxyd6), mRNA [NM_022004]	NM_022004	1.07948
Mus musculus 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2 (Pfkfb2), mRNA [NM_008825]	NM_008825	1.07546
Mus musculus RIKEN cDNA 2610204L23 gene (2610204L23Rik), mRNA [NM_026009]	NM_026009	-1.51997
Mus musculus 13 days embryo liver cDNA, RIKEN full-length enriched library, c AK010864	AK010864	-1.04971
Mus musculus olfactory receptor 1412 (Olfr1412), mRNA [NM_146277]	NM_146277	1.074
Mus musculus myeloid ecotropic viral integration site-related gene 1 (Mrg1), mRNA [NM_010825]	NM_010825	-1.07404
similar to RIKEN cDNA A430107P09 gene	AK038154	-1.00673
LPS-induced TN factor	NM_019980	-1.15947
Mus musculus RIKEN cDNA 1700022C02 gene (1700022C02Rik), mRNA [NM_025495]	NM_025495	-1.08409
Mus musculus phenylethanolamine-N-methyltransferase (Pnmt), mRNA [NM_008890]	NM_008890	-1.01185
Mus musculus RAB7, member RAS oncogene family-like 1 (Rab711), mRNA [NM_144875]	NM_144875	-1.42815
Tripartite motif protein 6	AF220031	-1.13861
Mus musculus vomeronasal 1 receptor, B6 (V1rb6), mRNA [NM_020522]	NM_020522	1.09087
Mus musculus keratin complex 1, acidic, gene 14 (Krt1-14), mRNA [NM_016958]	NM_016958	1.09633
Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 7 (NucNM_024437)	NM_024437	1.02379
Mus musculus cDNA sequence BC025546 (BC025546), mRNA [NM_146215]	NM_146215	-1.24265
Mus musculus dystroglycan 1 (Dag1), mRNA [NM_010017]	NM_010017	1.23404
Mus musculus tumor necrosis factor (ligand) superfamily, member 4 (Tnfsf4), mRNA [NM_009452]	NM_009452	1.09746
Mus musculus RIKEN cDNA G430041M01 gene (G430041M01Rik), mRNA [NM_198102]	NM_198102	-1.65473
Mus musculus ubiquitin-activating enzyme E1C (Ube1c), mRNA [NM_011666]	NM_011666	-1.68071
RIKEN cDNA 9130002K18 gene	AK018586	-1.31847
Malic enzyme 3, NADP(+)-dependent, mitochondrial	AK038819	1.05711
hypothetical protein 9330140G23	NM_177647	1.03826
Mus musculus trehalase (brush-border membrane glycoprotein) (Treh), mRNA [NM_021481]	NM_021481	-1.06191
Mus musculus ATPase, H ⁺ transporting, V1 subunit E-like 2 isoform 2 (Atp6v1e), mRNA [NM_029121]	NM_029121	1.06731
RIKEN cDNA F730031O20 gene	AK047799	1.1095
Mus musculus myozenin 2 (Myoz2), mRNA [NM_021503]	NM_021503	-1.05908
RIKEN cDNA 4930413O22 gene	AK077173	1.00443
Mus musculus cDNA sequence BC027556 (BC027556), mRNA [NM_153558]	NM_153558	1
Mus musculus RIKEN cDNA 9930028C20 gene (9930028C20Rik), mRNA [NM_178691]	NM_178691	-1.33658
Mus musculus RIKEN cDNA 2310003L22 gene (2310003L22Rik), mRNA [NM_027093]	NM_027093	-1.6976
RAB28, member RAS oncogene family	AK012286	-1.40933
Mus musculus RIKEN cDNA 4930538D17 gene (4930538D17Rik), mRNA [NM_029186]	NM_029186	1.05461
Zinc finger, RAN-binding domain containing 1	AJ250693	-1.18705
Mus musculus ubiquitin specific protease 4 (proto-oncogene) (Usp4), mRNA [NM_011678]	NM_011678	-1.06013
Preylcysteine oxidase 1	AK037839	1
actin related protein M2	NM_028513	-1.07356
Eukaryotic translation initiation factor 5B	BC023025	-1.17352
Mus musculus processing of precursor 5, ribonuclease P/MRP family (S. cerevisiae), mRNA [NM_026398]	NM_026398	-1.17363
Mus musculus adenylate kinase 4 (Ak4), mRNA [NM_009647]	NM_009647	1.00691
Mus musculus myocardin-related transcription factor B (Mrtf-B), mRNA [NM_153588]	NM_153588	1.10818
Mus musculus vomeronasal 1 receptor, C32 (V1rc32), mRNA [NM_134187]	NM_134187	-1.00261
Mus musculus 2 days pregnant adult female ovary cDNA, RIKEN full-length enriched library, c AK054357	AK054357	1.06761
Protein kinase C, epsilon	AK017901	-1.69676
RIKEN cDNA 9430072K23 gene	AK090111	1.56407
Mus musculus sideroflexin 5 (Sfxn5), mRNA [NM_178639]	NM_178639	1.10869
Mus musculus glucose-6-phosphate dehydrogenase X-linked (G6pdx), mRNA [NM_008062]	NM_008062	-1.07417
Mus musculus solute carrier family 22 (organic cation transporter), member 17 (Slc22a17), mRNA [NM_021551]	NM_021551	-1.19603
Mus musculus papilin, proteoglycan-like sulfated glycoprotein (Papln), mRNA [NM_130887]	NM_130887	1
Mus musculus tocopherol (alpha) transfer protein (Ttpa), mRNA [NM_015767]	NM_015767	1.03887
T cell receptor associated transmembrane adaptor 1	AK030807	1.12571

Nicastrin	NM_021607	1.05087
Putative neuronal cell adhesion molecule	AK012957	1.09101
Mus musculus olfactory receptor 459 (Olf459), mRNA [NM_146576]	NM_146576	1.14613
Mus musculus DNA segment, Chr 7, Roswell Park 2 complex, expressed (D7Rc	NM_033080	-1.07176
RIKEN cDNA 2310020F24 gene	AK009417	1.13237
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:	AK007076	-1.1903
Laminin, alpha 5	U37501	-1.00663
Mus musculus RIKEN cDNA 2210413P10 gene (2210413P10Rik), mRNA [NM_	NM_020518	1.03338
Mus musculus striatin, calmodulin binding protein 4 (Strn4), mRNA [NM_13378	NM_133789	1.1239
plasma glutamate carboxypeptidase	NM_018755	-1.26747
Mus musculus POU domain, class 5, transcription factor 1 (Pou5f1), mRNA [NM	NM_013633	1.04819
Mus musculus tropomodulin 4 (Tmod4), mRNA [NM_016712]	NM_016712	-1.03165
Mus musculus follicle stimulating hormone beta (Fshb), mRNA [NM_008045]	NM_008045	1.19424
brain expressed, associated with Nedd4	AF240460	1.18461
Mus musculus disrupted in bipolar disorder 1 homolog (human) (Dibd1), mRNA	NM_133981	1.04557
Mus musculus olfactory receptor 1048 (Olf1048), mRNA [NM_147014]	NM_147014	1.39445
Mus musculus myosin, heavy polypeptide 2, skeletal muscle, adult (Myh2), mRN	NM_144961	-1.05967
helicase, mus308-like (Drosophila)	AF436846	1.13442
Mus musculus amyloid beta (A4) precursor protein-binding, family A, member 1	NM_021546	1.09281
RIKEN cDNA 6430502G17 gene	AK084283	1.20468
Mus musculus RIKEN cDNA 4930465K10 gene (4930465K10Rik), mRNA [NM_	NM_026289	1.0694
Mus musculus RIKEN cDNA 1810015C04 gene (1810015C04Rik), mRNA [NM_	NM_025459	1.15069
Mus musculus solute carrier family 12, member 2 (Slc12a2), mRNA [NM_00919	NM_009194	1.31385
Mus musculus 8-oxoguanine DNA-glycosylase 1 (Ogg1), mRNA [NM_010957]	NM_010957	-1.18787
RIKEN cDNA D930038M13 gene	BC026627	-1.76719
Mus musculus leukocyte cell derived chemotaxin 1 (Lect1), mRNA [NM_010701	NM_010701	1.05481
SMC5 structural maintenance of chromosomes 5-like 1 (yeast)	BC007174	-1.21274
Mus musculus small nuclear RNA activating complex, polypeptide 2 (Snapc2), n	NM_133968	1.13501
Mus musculus DNA segment, Chr 11, ERATO Doi 530, expressed (D11Ert530	NM_199196	-1.50532
Mus musculus EGF-like domain 8 (Egfl8), mRNA [NM_152922]	NM_152922	1.03299
Mus musculus mitochondrial ribosomal protein S10 (Mrps10), mRNA [NM_1830	NM_183086	-1.19839
Mus musculus RIKEN cDNA 2610510L01 gene (2610510L01Rik), mRNA [NM_	(NM_026015	-1.23062
Mus musculus carbonic anhydrase 14 (Car14), mRNA [NM_011797]	NM_011797	-1.04181
Mus musculus carbohydrate sulfotransferase 2 (Chst2), mRNA [NM_018763]	NM_018763	1.10781
Mus musculus ADP-ribosylation factor 4-like (Arf4l), mRNA [NM_031160]	NM_031160	2.18636
Mus musculus zeta-chain (TCR) associated protein kinase (Zap70), mRNA [NM	NM_009539	1.06474
Mus musculus insulin-like growth factor 2, binding protein 1 (Igf2bp1), mRNA [N	NM_009951	-1.03444
Mus musculus RIKEN cDNA 2010012C16 gene (2010012C16Rik), mRNA [NM_	NM_025564	-1.3584
Mus musculus RIKEN cDNA 2310003P10 gene (2310003P10Rik), mRNA [NM_	NM_175145	-1.06175
Golgi autoantigen, golgin subfamily b, macrogolgin 1	AK015226	1.08804
Mus musculus lymphocyte antigen 6 complex, locus G6C (Ly6g6c), mRNA [NM_	NM_023463	-1.20549
Mus musculus RIKEN cDNA A030003A19 gene (A030003A19Rik), mRNA [NM_	NM_173024	1.07883
Mus musculus serine (or cysteine) proteinase inhibitor, clade A, member 3M (S	NM_009253	1.01069
RIKEN cDNA 5430420P03 gene	AK017329	1.08391
Mus musculus keratinocyte associated protein 2 (Krtcap2), mRNA [NM_025327	NM_025327	-1.08054
Mus musculus transmembrane channel-like gene family 2 (Tmc2), mRNA [NM_	NM_138655	1.21976
Mus musculus fibroblast growth factor 9 (Fgf9), mRNA [NM_013518]	NM_013518	1.08989
Unknown		4.04351
Mus musculus RIKEN cDNA 4931414L13 gene (4931414L13Rik), mRNA [NM_	NM_175321	-1.03975
Mus musculus RIKEN cDNA A930002I21 gene (A930002I21Rik), mRNA [NM_1	NM_175410	1.06285
Mus musculus RIKEN cDNA 1600014E20 gene (1600014E20Rik), mRNA [NM_	NM_028045	1.08423
RIKEN cDNA A830021K08 gene	AK043702	1.2112

Mus musculus surfactant associated protein B (Sftpb), mRNA [NM_147779]	NM_147779	1.31681
Mus musculus insulin degrading enzyme (Ide), mRNA [NM_031156]	NM_031156	1.02143
Mus musculus pyrroline-5-carboxylate reductase 1 (Pycr1), mRNA [NM_144795]	NM_144795	1.09213
Mus musculus lymphocyte antigen 9 (Ly9), mRNA [NM_008534]	NM_008534	1.04861
Mus musculus RB1-inducible coiled-coil 1 (Rb1cc1), mRNA [NM_009826]	NM_009826	-1.0151
Paired box gene 6	X63963	1.02269
Mus musculus opticin (Optc), mRNA [NM_054076]	NM_054076	1.07247
Mus musculus selenoprotein W, muscle 1 (Sepw1), mRNA [NM_009156]	NM_009156	1.0049
Mus musculus DNA segment, Chr 10, Brigham & Women's Genetics 0940 expr	NM_173390	-1.00498
Mus musculus cDNA sequence BC019734 (BC019734), mRNA [NM_145369]	NM_145369	-1.07386
Mus musculus solute carrier family 12, member 1 (Slc12a1), transcript variant 1,	NM_011389	-1.15959
Mus musculus stereocilin (Strc), mRNA [NM_080459]	NM_080459	1.02214
Mus musculus chloride channel 2 (Clcn2), mRNA [NM_009900]	NM_009900	1.06335
Mus musculus CASP8 and FADD-like apoptosis regulator (Cflar), transcript vari	NM_009805	-1.02034
Mus musculus ER degradation enhancer, mannosidase alpha-like 1 (Edem1), r	NM_138677	-1.03281
Mus musculus reticulocalbin (Rcn), mRNA [NM_009037]	NM_009037	-1.18611
Tetratricopeptide repeat domain 15	AK078174	1.14302
C1q-like 3	AK053854	1.07964
RIKEN cDNA 1700123D08 gene	AK077027	-1.03539
Mus musculus thimet oligopeptidase 1 (Thop1), mRNA [NM_022653]	NM_022653	1.38422
Mus musculus zinc finger protein 292 (Zfp292), mRNA [NM_013889]	NM_013889	-1.11225
Mus musculus SLIT and NTRK-like family, member 6 (Slitrk6), mRNA [NM_175499]	NM_175499	-1.08784
Mus musculus eukaryotic translation elongation factor 1 alpha 1 (Eef1a1), mRNA,	XM_203909	-1.3452
embryonic large molecule derived from yolk sac	NM_026375	-1.12328
Mus musculus ribophorin II (Rpn2), mRNA [NM_019642]	NM_019642	-1.22882
RIKEN cDNA 4921508A21 gene	AK014841	1.10514
Mus musculus RIKEN cDNA 6530416A09 gene (6530416A09Rik), mRNA [XM_283757]	XM_283757	-1.36266
Mus musculus RIKEN cDNA 4833420N02 gene (4833420N02Rik), mRNA [NM_183263]	NM_183263	-1.07476
Mus musculus ribonuclease A family, member 6 (Rnase6), mRNA [NM_030098]	NM_030098	-1.34432
RIKEN cDNA 2610510H01 gene	AK129370	-1.11436
Mus musculus Unc4.1 homeobox (C. elegans) (Uncx4.1), mRNA [NM_013702]	NM_013702	1
RIKEN cDNA 4930449E01 gene	AK015429	1.13954
Mus musculus interphotoreceptor matrix proteoglycan 1 (Impg1), mRNA [NM_022016]	NM_022016	1.03151
Mus musculus developmentally regulated GTP binding protein 2 (Drg2), mRNA	NM_021354	1.10538
RIKEN cDNA 4931426K16 gene	AK047675	1.02152
Mus musculus G protein-coupled receptor kinase 6 (Gprk6), mRNA [NM_011933]	NM_011933	1.0702
Mus musculus SRY-box containing gene 1 (Sox1), mRNA [NM_009233]	NM_009233	1.13392
RIKEN cDNA 8430417A20 gene	AK054516	1.02251
Mus musculus cadherin EGF LAG seven-pass G-type receptor 2 (Celsr2), mRN	NM_017392	1.02509
Gene model 1630, (NCBI)	AK021136	-1.01437
Mus musculus RIKEN cDNA C330006K01 gene (C330006K01Rik), mRNA [NM_172725]	NM_172725	1.01303
Mus musculus RIKEN cDNA B130017I01 gene (B130017I01Rik), mRNA [NM_172525]	NM_172525	1.06183
Mus musculus block of proliferation 1 (Bop1), mRNA [NM_013481]	NM_013481	-1.04208
Mus musculus BarH-like homeobox 2 (Barx2), mRNA [NM_013800]	NM_013800	1.13911
Mus musculus ubiquitin specific protease 25 (Usp25), mRNA [NM_013918]	NM_013918	-1.32268
Nipped-B homolog (Drosophila)	AK016861	-1.00453
Mus musculus RIKEN cDNA 4733401H21 gene (4733401H21Rik), mRNA [NM_027568]	NM_027568	1.04547
Mus musculus carboxypeptidase E (Cpe), mRNA [NM_013494]	NM_013494	-1.12685
RIKEN cDNA 6430559E15 gene	BC024619	1.02433
Mus musculus olfactory receptor 397 (Olfr397), mRNA [NM_146346]	NM_146346	1.01673
Mus musculus olfactory receptor 480 (Olfr480), mRNA [NM_020291]	NM_020291	-1.02032
GTPase, IMAP family member 5	NM_175035	-1.06493

Mus musculus nerve growth factor, alpha (Ngfa), mRNA [NM_010915]	NM_010915	1.04241
chromosome 9 open reading frame 102-like	AK006112	-1.32913
Calcium channel, voltage-dependent, R type, alpha 1E subunit	NM_009782	1
Mus musculus expressed sequence AW491445 (AW491445), mRNA [NM_1341NM_134154]	NM_134154	1.04963
RIKEN cDNA 4930563P21 gene	AK016214	-1.22212
Mus musculus RIKEN cDNA A830093I24 gene (A830093I24Rik), mRNA [NM_1 NM_175431]	NM_175431	1.02227
Mus musculus N-myc downstream regulated gene 2 (Ndr2), mRNA [NM_01381NM_013864]	NM_013864	-1.25551
Mus musculus RIKEN cDNA 4930470D19 gene (4930470D19Rik), mRNA [NM_ NM_026274]	NM_026274	-1.21887
Fanconi anemia, complementation group G	BC050890	-1.11114
Early endosome antigen 1	BC025558	-1.10775
Mus musculus DNA segment, Chr 11, ERATO Doi 636, expressed (D11Ert636 NM_029794)	NM_029794	1.05515
Growth arrest specific 5	BC004622	-1.11379
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK006863	AK006863	1.0351
Mus musculus RIKEN cDNA 1200010C09 gene (1200010C09Rik), mRNA [NM_ NM_028769]	NM_028769	1.02396
Mus musculus cytochrome P450, family 4, subfamily b, polypeptide 1 (Cyp4b1), NM_007823	NM_007823	-1.06156
Mus musculus growth hormone (Gh), mRNA [NM_008117]	NM_008117	-1.08829
Mus musculus RAS-related C3 botulinum substrate 1 (Rac1), mRNA [NM_0090 NM_009007]	NM_009007	-1.06161
Mus musculus RIKEN cDNA 1700017D11 gene (1700017D11Rik), transcript va NM_027061	NM_027061	-1.12744
Mus musculus RIKEN cDNA 1600020H07 gene (1600020H07Rik), mRNA [NM_ NM_019975]	NM_019975	-1.27831
Mus musculus insulin-like growth factor binding protein 3 (Igfbp3), mRNA [NM_ (NM_008343]	NM_008343	1.11594
Mus musculus olfactory receptor 1022 (Olfr1022), mRNA [NM_146589]	NM_146589	1.13062
Mus musculus RIKEN cDNA 1700026D08 gene (1700026D08Rik), mRNA [NM_ NM_029335]	NM_029335	-1.21185
Mus musculus Williams-Beuren syndrome chromosome region 16 homolog (hur NM_033572)	NM_033572	1.04976
Mus musculus steroid sulfatase (Sts), mRNA [NM_009293]	NM_009293	2.44283
Mus musculus quinoid dihydropteridine reductase (Qdpr), mRNA [NM_024236 NM_024236]	NM_024236	-1.02159
Mus musculus septin 5 (Sept5), mRNA [NM_213614]	NM_213614	1.09317
Mus musculus inhibitor of growth family, member 1 (Ing1), mRNA [NM_011919] NM_011919	NM_011919	1.1522
Mus musculus topoisomerase I binding, arginine/serine-rich (Topors), mRNA [N NM_134097]	NM_134097	-1.49427
RIKEN cDNA 4930422I07 gene	AK015179	-1.15645
Mus musculus RIKEN cDNA 2810032G03 gene (2810032G03Rik), mRNA [NM_ NM_028318]	NM_028318	1.01823
Mus musculus zinc finger protein 53 (Zfp53), mRNA [NM_013843]	NM_013843	-1.13504
Nuclease sensitive element binding protein 1	AK007113	1.04402
Mus musculus RIKEN cDNA A930005I04 gene (A930005I04Rik), mRNA [NM_2 NM_207277]	NM_207277	1.22684
Mus musculus RIKEN cDNA 1810062O14 gene (1810062O14Rik), mRNA [NM_ NM_178650]	NM_178650	1.18399
RIKEN cDNA 2310057J16 gene	AK081728	1.09761
Mus musculus TRAF family member-associated Nf-kappa B activator (Tank), ml NM_011529	NM_011529	-1.29651
Mus musculus opioid receptor, kappa 1 (Oprk1), mRNA [NM_011011]	NM_011011	-1.23344
Mus musculus ubiquitin conjugating enzyme 7 interacting protein 1 (Ubce7ip1), NM_080561	NM_080561	-1.20057
Mus musculus cDNA sequence BC011210 (BC011210), mRNA [NM_173863]	NM_173863	1.12799
Sterol O-acyltransferase 1	BC025091	-1.46962
CDNA sequence BC037006	BC006733	1.1172
Mus musculus protocadherin beta 6 (Pcdhb6), mRNA [NM_053131]	NM_053131	1.01919
Calmin	BC027232	-1.16242
Mus musculus RIKEN cDNA C530047H08 gene (C530047H08Rik), mRNA [NM_ NM_176898]	NM_176898	1.01504
Mus musculus SLAM family member 9 (Slamf9), mRNA [NM_029612]	NM_029612	-1.23685
RIKEN cDNA 5830454D03 gene	AK077784	-1.04278
Expressed sequence AW822216	AK029863	-1.16078
ErbB2 interacting protein	AK051733	-1.21333
peroxisomal acyl-CoA thioesterase 2B	NM_134247	1.0894
Mus musculus embigin (Emb), mRNA [NM_010330]	NM_010330	-1.4423
Mus musculus cancer susceptibility candidate 3 (Casc3), mRNA [NM_138660]	NM_138660	1.09889
Mus musculus oligodendrocyte transcription factor 3 (Olig3), mRNA [NM_05300 NM_053008]	NM_053008	1.02346

gametogenetin binding protein 1	BC054732	1.16161
Mus musculus integral membrane protein 2C (Itm2c), mRNA [NM_022417]	NM_022417	1.51055
Phosphatidylinositol-4-phosphate 5-kinase, type II, beta	AB054987	1.111
Mus musculus ESP8-like 3 (Eps8l3), mRNA [NM_133867]	NM_133867	1.0717
Mus musculus RIKEN cDNA 4930430E16 gene (4930430E16Rik), mRNA [NM_028672]	NM_028672	1.0348
BR serine/threonine kinase 2	AK014760	1.02664
Adult male aorta and vein cDNA, RIKEN full-length enriched library, clone:A5301	AK080016	1.23662
Mus musculus presenilin 1 (Psen1), mRNA [NM_008943]	NM_008943	1.14064
Mus musculus deiodinase, iodothyronine, type I (Dio1), mRNA [NM_007860]	NM_007860	1.09073
Mus musculus olfactory receptor 1126 (Olfr1126), mRNA [NM_146837]	NM_146837	1.06777
Mus musculus epidermal growth factor-containing fibulin-like extracellular matrix	NM_021474	-1.38661
Mus musculus NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9 (Ndufb9)	NM_023172	-1.11396
Mus musculus RIKEN cDNA 1700025F22 gene (1700025F22Rik), mRNA [NM_027074]	NM_027074	1.01264
Mus musculus RIKEN cDNA 2810430M08 gene (2810430M08Rik), mRNA [NM_026041]	NM_026041	-1.33059
Mus musculus carbohydrate (N-acetylgalactosamine 4-O) sulfotransferase 9 (ChST9)	NM_199055	1.12042
Mus musculus carnitine palmitoyltransferase 1c (Cpt1c), mRNA [NM_153679]	NM_153679	1.09459
Mus musculus proteasome (prosome, macropain) 26S subunit, non-ATPase, 10S	NM_016883	-1.46727
Biogenesis of lysosome-related organelles complex-1, subunit 2	AK010745	-1.26971
Mus musculus barrier to autointegration factor 1 (Banf1), mRNA [NM_011793]	NM_011793	-1.28698
RAB11 family interacting protein 2 (class I)	AK053365	1.03035
Mus musculus hypothetical protein D030051D21 (D030051D21), mRNA [NM_172531]	NM_172531	1.01686
similar to Metaxin 1	AK090249	1.17768
Mus musculus SEC15 homolog (S. cerevisiae) (Sec15), mRNA [NM_175353]	NM_175353	-1.49367
Mus musculus RIKEN cDNA 2410004J23 gene (2410004J23Rik), mRNA [NM_172429]	NM_172429	-1.54827
Proteasome (prosome, macropain) activator subunit 4	AK080260	1.04368
RIKEN cDNA 2810039F03 gene	AK048613	1
Mus musculus RIKEN cDNA C630041L24 gene (C630041L24Rik), mRNA [NM_183136]	NM_183136	-1.01311
Mus musculus RIKEN cDNA 0610009E20 gene (0610009E20Rik), mRNA [NM_025318]	NM_025318	-1.29584
Mus musculus adult male medulla oblongata cDNA, RIKEN full-length enriched	AK078141	-1.00693
Mus musculus tripartite motif protein 30 (Trim30), mRNA [NM_009099]	NM_009099	-2.3197
RIKEN cDNA 2410127E18 gene	BC060132	1.02577
Mus musculus potassium large conductance calcium-activated channel, subfamily	NM_010610	-1.00241
RIKEN cDNA 2310040A07 gene	BC021944	1.04534
Mus musculus protocadherin beta 3 (Pcdhb3), mRNA [NM_053128]	NM_053128	-1.0311
RIKEN cDNA 1700065I16 gene	AK016931	-1.01105
Mus musculus nipsnap homolog 3B (C. elegans) (Nipsnap3b), mRNA [NM_025623]	NM_025623	-1.08724
Mus musculus TATA box binding protein (Tbp)-associated factor, RNA polymerase	NM_021441	1.10314
Mus musculus similar to Ig heavy chain precursor V region (F6-3) - mouse (fragment)	XM_354732	-1.11061
RIKEN cDNA 1110018F16 gene	AK003775	-1.18992
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:	AK015647	-1.09687
CDNA clone MGC:27981 IMAGE:3596365, complete cds	BC016608	1.1207
5-oxoprolinase (ATP-hydrolysing)	AK005822	1.04674
Mus musculus RIKEN cDNA B230342M21 gene (B230342M21Rik), mRNA [NM_133898]	NM_133898	-1.2568
Integrin beta 8	AK053056	-1.03912
Mus musculus mannoside acetylglucosaminyltransferase 1-like (Mgat1l), mRNA [NM_177448]	NM_177448	1.02943
Mus musculus nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent	NM_010899	1.08352
Mus musculus phosphoribosylglycinamide formyltransferase (Gart), mRNA [NM_010256]	NM_010256	1.13905
Mus musculus preproacrosin (Acr), mRNA [NM_013455]	NM_013455	1.26095
RIKEN cDNA 2900016D05 gene	AK078481	1.0308
Mus musculus caspase 6 (Casp6), mRNA [NM_009811]	NM_009811	-1.05325
Mus musculus RIKEN cDNA 1110033K19 gene (1110033K19Rik), mRNA [NM_133698]	NM_133698	-1.0377
Mus musculus expressed sequence AW060766 (AW060766), mRNA [NM_198033]	NM_198033	-1.31194

Mus musculus mitogen activated protein kinase kinase 1 (Map2k1), mRNA [NM_008927		-1.12529
Mus musculus protease, serine, 18 (Prss18), mRNA [NM_011177]	NM_011177	1.12046
Mus musculus RIKEN cDNA 9530020D24 gene (9530020D24Rik), mRNA [NM_145522		-1.15391
Mus musculus leucine aminopeptidase 3 (Lap3), mRNA [NM_024434]	NM_024434	-1.28776
Mus musculus RIKEN cDNA 6330442E02 gene (6330442E02Rik), mRNA [NM_177872		1.02352
RIKEN cDNA 2310007B03 gene	NM_172411	1.07237
Fatty acid binding protein 9, testis	U96149	-1.08376
Mus musculus dickkopf homolog 2 (Xenopus laevis) (Dkk2), mRNA [NM_020266	NM_020266	1.04914
RIKEN cDNA C920025E04 gene	AK083376	1.22072
Mus musculus PDZ and LIM domain 4 (Pdlim4), mRNA [NM_019417]	NM_019417	-1.04522
Mus musculus membrane protein, palmitoylated 3 (MAGUK p55 subfamily mem	NM_007863	1.03718
Mus musculus olfactory receptor 61 (Olfr61), mRNA [NM_146964]	NM_146964	1.01315
Mus musculus 5-hydroxytryptamine (serotonin) receptor 3A (Htr3a), mRNA [NM_013561		1.18502
Mus musculus steroid 5 alpha-reductase 2 (Srd5a2), mRNA [NM_053188]	NM_053188	1.07989
Mus musculus calcitonin receptor-like (Calcrl), mRNA [NM_018782]	NM_018782	-1.20425
Mus musculus glutamate receptor, ionotropic, NMDA2C (epsilon 3) (Grin2c), mF	NM_010350	-1.21887
Mus musculus olfactory receptor 790 (Olfr790), mRNA [NM_146933]	NM_146933	-1.1424
Mus musculus 15 days embryo head cDNA, RIKEN full-length enriched library, c	AK086336	-1.03874
RIKEN cDNA 4930579G18 gene	AK016319	1.10745
3'-phosphoadenosine 5'-phosphosulfate synthase 2	AK029185	1.102
Mus musculus RIKEN cDNA 2900091E11 gene (2900091E11Rik), mRNA [NM_026070		-1.32395
Mus musculus activating transcription factor 5 (Atf5), mRNA [NM_030693]	NM_030693	-1.11479
Lipoma HMGIC fusion partner-like protein 4	AK004487	1.06229
Mus musculus aldehyde dehydrogenase family 7, member A1 (Aldh7a1), mRNA	NM_138600	1.09434
Echinoderm microtubule associated protein like 2	AK005562	-1.51483
Mus musculus small proline-rich protein 2K (Sprr2k), mRNA [NM_011477]	NM_011477	1.15559
Mus musculus transient receptor potential cation channel, subfamily V, member	NM_022017	-1.1386
Mus musculus methylenetetrahydrofolate dehydrogenase (NADP+ dependent),	NM_138745	-1.09383
Mus musculus protein phosphatase 2, regulatory subunit B, delta isoform (Ppp2	NM_026391	-1.14515
DEAD (Asp-Glu-Ala-Asp) box polypeptide 19b	BC002300	-1.2988
Mus musculus cDNA sequence BC002118 (BC002118), mRNA [NM_030264]	NM_030264	1.04314
Mus musculus DNA sequence AF424697 (AF424697), mRNA [NM_153078]	NM_153078	-1.205
Mus musculus nucleolar protein family 6 (RNA-associated) (Nol6), transcript var	NM_139236	1.0365
Mus musculus uroporphyrinogen decarboxylase (Urod), mRNA [NM_009478]	NM_009478	-1.18464
Mus musculus olfactory receptor 1443 (Olfr1443), mRNA [NM_146698]	NM_146698	1.01558
killer immunoglobulin-like receptor-like 2	NM_177748	1.10578
Membrane-associated ring finger (C3HC4) 1	NM_175188	-1.1805
cis-retinol/3alpha hydroxysterol short-chain dehydrogenase-like	NM_145424	1.02374
Mus musculus olfactory receptor 1216 (Olfr1216), mRNA [NM_146893]	NM_146893	1.06008
Mus musculus RIKEN cDNA 5730437N04 gene (5730437N04Rik), mRNA [NM_027457		-1.31866
RIKEN cDNA A630031M04 gene	BC038488	1.04608
Mus musculus transferrin (Trf), mRNA [NM_133977]	NM_133977	-1.07724
Mus musculus RIKEN cDNA 1300010K09 gene (1300010K09Rik), mRNA [NM_138303		1.15664
Mus musculus RIKEN cDNA 2610016F04 gene (2610016F04Rik), mRNA [NM_025847		-1.50537
Mus musculus forkhead box F1a (Foxf1a), mRNA [NM_010426]	NM_010426	-1.00008
Pleckstrin homology domain containing, family C (with FERM domain) member	BC033436	-1.00113
Mus musculus cDNA sequence BC016188 (BC016188), mRNA [NM_145970]	NM_145970	1.12686
Mus musculus cDNA sequence BC026762, mRNA (cDNA clone IMAGE:450405	BC026762	1.0226
Mus musculus tumor necrosis factor receptor superfamily, member 12a (Tnfrsf1	NM_013749	1.00429
Mus musculus RIKEN cDNA 1110011F09 gene (1110011F09Rik), mRNA [NM_029576		-1.10949
Potassium voltage-gated channel, shaker-related, subfamily, member 6	AK031890	-1.09849
Mus musculus RIKEN cDNA B230382K22 gene (B230382K22Rik), mRNA [NM_175502		-1.02552

Synaptic nuclear envelope 1	AK039486	1.13562
Mus musculus general transcription factor II H, polypeptide 4 (Gtf2h4), mRNA [NM_010364]	NM_010364	1.00295
similar to KIAA1602 protein	NM_00100188	1.10929
Mus musculus protein tyrosine phosphatase, receptor type, M (Ptprm), mRNA [NM_008984]	NM_008984	-1.02199
Mus musculus thyroid hormone receptor interactor 6 (Trip6), mRNA [NM_01163]	NM_011639	1.03793
Mus musculus RIKEN cDNA 9630042H07 gene (9630042H07Rik), mRNA [NM_178753]	NM_178753	1.01128
Mus musculus Casitas B-lineage lymphoma (Cbl), mRNA [NM_007619]	NM_007619	1.04783
subcommissural organ spondin	NM_173428	-1.13761
Mus musculus pumilio 2 (Drosophila) (Pum2), mRNA [NM_030723]	NM_030723	-1.14596
Mus musculus RIKEN cDNA 2610039E05 gene (2610039E05Rik), mRNA [NM_030176]	NM_030176	-1.02755
Pentatricopeptide repeat domain 2	BC016563	1.10434
Mus musculus RIKEN cDNA 4930563A03 gene (4930563A03Rik), mRNA [NM_176965]	NM_176965	1.06784
RIKEN cDNA 4732468D17 gene	AK041703	1.01809
Mus musculus NK2 transcription factor related, locus 9 (Drosophila) (Nkx2-9), mRNA [NM_008701]	NM_008701	1
Alpha thalassemia/mental retardation syndrome X-linked homolog (human)	AK014663	-1.21609
Mus musculus similar to Ig H-chain V-JH3-region (LOC195708), mRNA [XM_111207]	XM_111207	-1.01029
Mus musculus Cdc42 GTPase-activating protein (Cdgap), mRNA [NM_020260]	NM_020260	1.03749
Mus musculus protease, serine, 21 (Prss21), mRNA [NM_020487]	NM_020487	-1.02147
Dmx-like 2	BC023075	-1.21812
0 day neonate kidney cDNA, RIKEN full-length enriched library, clone:D630008	AK085302	1.19775
Mus musculus RIKEN cDNA 6030426L16 gene (6030426L16Rik), mRNA [NM_183121]	NM_183121	1.17301
RIKEN cDNA 4930429H24 gene	AK054351	-1.0693
RIKEN cDNA 4933409N07 gene	AK051663	1.01102
Mus musculus AT rich interactive domain 1A (Swi1 like) (Arid1a), mRNA [NM_033566]	NM_033566	-1.09745
RIKEN cDNA 2310057G13 gene	AK009957	-1.37379
suprabasin	NM_172205	1.2114
RIKEN cDNA 1700008J08 gene	AK005775	1.16321
Abl-interactor 2	AK081803	1.02348
RIKEN cDNA C920006O11 gene	AK050586	1.0302
C-type lectin domain family 5, member a	NM_021364	-1.01289
RIKEN cDNA 9430077D24 gene	AK037620	-1.04491
Mus musculus naked cuticle 2 homolog (Drosophila) (Nkd2), mRNA [NM_02818]	NM_028186	1.03826
Lysophosphatidylglycerol acyltransferase 1	AK172914	1.08415
Mus musculus radial spokehead-like 1 (Rshl1), mRNA [NM_031255]	NM_031255	-1.11614
Olfactory receptor 1264	NM_021368	1.16848
Mus musculus roundabout homolog 3 (Drosophila) (Robo3), mRNA [NM_01124]	NM_011248	-1.01981
Mus musculus peroxisomal biogenesis factor 11b (Pex11b), mRNA [NM_01106]	NM_011069	-1.24365
Mus musculus thymidylate synthase (Tyms), mRNA [NM_021288]	NM_021288	-1.04029
Mus musculus NK2 transcription factor related, locus 2 (Drosophila) (Nkx2-2), mRNA [NM_010919]	NM_010919	1.11065
Mus musculus RIKEN cDNA 1700019N12 gene (1700019N12Rik), mRNA [NM_025953]	NM_025953	1.13593
Mus musculus WD repeat domain 6 (Wdr6), mRNA [NM_031392]	NM_031392	-1.02389
Sprouty protein with EVH-1 domain 1, related sequence	AK017680	-1.25237
IQ motif and WD repeats 1	AK029708	1.03031
Mus musculus RIKEN cDNA 1200009K13 gene (1200009K13Rik), mRNA [NM_025814]	NM_025814	-1.26377
Mus musculus myelin basic protein (Mbp), mRNA [NM_010777]	NM_010777	1.07027
Mus musculus solute carrier family 2 (facilitated glucose transporter), member 1	NM_130451	1.00199
Mus musculus RIKEN cDNA A230020G22 gene (A230020G22Rik), mRNA [NM_178165]	NM_178165	1.14318
Mus musculus proteasome (prosome, macropain) 26S subunit, non-ATPase, 3	NM_009439	-1.09041
Mus musculus TATA box binding protein-like 1 (Tbpl1), mRNA [NM_011603]	NM_011603	-1.224
Mus musculus RIKEN cDNA C030018L16 gene (C030018L16Rik), mRNA [NM_023873]	NM_023873	-1.15628
Mus musculus RIKEN cDNA C730007L20 gene (C730007L20Rik), mRNA [NM_177337]	NM_177337	-1.05353
Mus musculus small nuclear ribonucleoprotein polypeptide G (Snrpg), mRNA [NM_026506]	NM_026506	-1.01809

Mus musculus islet amyloid polypeptide (Iapp), mRNA [NM_010491]	NM_010491	1.11061
L(3)mbt-like (Drosophila)	AK049859	1.00974
Mus musculus cleavage stimulation factor, 3' pre-RNA, subunit 3 (Cstf3), mRNA [NM_145529]	NM_145529	-1.13693
Mus musculus Fas (TNFRSF6)-associated via death domain (Fadd), mRNA [NM_010175]	NM_010175	1.06541
Mus musculus ring finger protein 38 (Rnf38), mRNA [NM_175201]	NM_175201	1.03628
Microtubule-actin crosslinking factor 1	AK089453	1.03015
Mus musculus RIKEN cDNA 2900092C05 gene (2900092C05Rik), mRNA [NM_028434]	NM_028434	-1.0281
Mus musculus wingless-related MMTV integration site 4 (Wnt4), mRNA [NM_009523]	NM_009523	1.04597
Mus musculus metaxin 1 (Mtx1), mRNA [NM_013604]	NM_013604	1.05118
RIKEN cDNA 1700028O09 gene	AF522069	1.08203
Human immunodeficiency virus type I enhancer binding protein 3	AK013707	1.13196
Mus musculus platelet-activating factor acetylhydrolase, isoform 1b, alpha1 subunit (PAFAC1B), mRNA [NM_008776]	NM_008776	-1.0282
RIKEN cDNA 1700054F22 gene	AK006782	1.01502
Mus musculus S100 calcium binding protein A9 (calgranulin B) (S100a9), mRNA [NM_009114]	NM_009114	-1.07622
Mus musculus latent transforming growth factor beta binding protein 4 (Ltbp4), mRNA [NM_175641]	NM_175641	1.02091
UDP glucuronosyltransferase 3 family, polypeptide A2	NM_144845	1.00793
PHD finger protein 8	AK122447	-1.32484
Mus musculus scrapie responsive gene 1 (Scrg1), mRNA [NM_009136]	NM_009136	-1.00481
Slingshot homolog 1 (Drosophila)	AK089308	1.02953
Mus musculus olfactory receptor 895 (Olfr895), mRNA [NM_146875]	NM_146875	-1.03444
Zinc finger, SWIM domain containing 6	AK122528	-1.56485
Mus musculus T-box brain gene 1 (Tbr1), mRNA [NM_009322]	NM_009322	1.01212
hypothetical protein B230332M13	AK046001	1
Mus musculus RIKEN cDNA D830007F02 gene (D830007F02Rik), mRNA [NM_175441]	NM_175441	-1.05391
Mus musculus tumor protein p53 inducible nuclear protein 2 (Trp53inp2), mRNA [NM_178111]	NM_178111	-1.27193
Ring finger protein 157	AK011693	1.05716
Mus musculus voltage-dependent anion channel 1 (Vdac1), mRNA [NM_011694]	NM_011694	-1.69998
Rho GTPase activating protein 21	BC043038	1.00395
Mus musculus expressed sequence AI467503 (AI467503), mRNA [NM_172863]	NM_172863	-1.08999
Mus musculus osteopetrosis associated transmembrane protein 1 (Ostm1), mRNA [NM_172416]	NM_172416	-1.11112
Mus musculus N-ethylmaleimide sensitive fusion protein (Nsf), mRNA [NM_008740]	NM_008740	-1.08226
Cell division cycle 2-like 6 (CDK8-like)	AK030146	1.09511
RIKEN cDNA 2810410C14 gene	AK053031	1.02688
Mus musculus chordin (Chrd), mRNA [NM_009893]	NM_009893	1.09049
Mus musculus olfactory receptor 802 (Olfr802), mRNA [NM_146932]	NM_146932	1.07117
RIKEN cDNA 3110050K21 gene	BC023707	-1.01073
DnaJ (Hsp40) homolog, subfamily C, member 10	BC033461	-1.3335
RIKEN cDNA 4732454E20 gene	AK028763	1
Mus musculus LIM homeobox protein 5 (Lhx5), mRNA [NM_008499]	NM_008499	1.02675
Aldo-keto reductase family 1, member B3 (aldose reductase)	AK054167	-1.02295
Mus musculus odd Oz/ten-m homolog 4 (Drosophila) (Odz4), mRNA [NM_011858]	NM_011858	1.02984
hypothetical protein 6430548G04	AK032445	-1.01502
Poly (ADP-ribose) polymerase family, member 6	AK076321	1.11467
Mus musculus DNA binding protein with his-thr domain (Dbpht1), mRNA [NM_019416]	NM_019416	-1.02427
Mus musculus acid phosphatase, prostate (Acpp), transcript variant 2, mRNA [NM_019807]	NM_019807	1.17571
Mus musculus squamous cell carcinoma antigen recognized by T cells 2 (Sart2), mRNA [NM_172508]	NM_172508	-1.22421
Hypothetical gene supported by AK007907	AK007907	1.15261
Mus musculus serine palmitoyltransferase, long chain base subunit 1 (Sptlc1), mRNA [NM_009269]	NM_009269	-1.21275
Mus musculus protease, serine, 11 (Igf binding) (Prss11), mRNA [NM_019564]	NM_019564	-1.07125
RIKEN cDNA 6720473G16 gene	AK012398	-1.53245
Mus musculus integrin alpha 9 (Itga9), mRNA [NM_133721]	NM_133721	1.33671
Mus musculus Indian hedgehog (Ihh), mRNA [NM_010544]	NM_010544	1.03526

Unknown		1.04747
Mus musculus Ewing sarcoma homolog (Ewsh), mRNA [NM_007968]	NM_007968	-1.08605
Mus musculus 4-nitrophenylphosphatase domain and non-neuronal SNAP25-lik	NM_008698	-1.03487
Mus musculus diacylglycerol O-acyltransferase 2 (Dgat2), mRNA [NM_026384]	NM_026384	-1.00468
Mus musculus RIKEN cDNA B230207H15 gene (B230207H15Rik), mRNA [NM_181407]	NM_181407	1.13512
Mus musculus thrombospondin 3 (Thbs3), mRNA [NM_013691]	NM_013691	1.08434
Mus musculus polymerase (RNA) III (DNA directed) polypeptide E (Polr3e), mR	NM_025298	1.11017
RIKEN cDNA 5430402E10 gene	AK017258	1.05662
Mus musculus interferon activated gene 205 (Ifi205), mRNA [NM_172648]	NM_172648	-1.23858
Phospholipase C, beta 4	AK044842	-1.03838
Mus musculus PLIC-1 mRNA, complete cds.	AF177345	1.01494
Mus musculus embryonal Fyn-associated substrate (Efs), mRNA [NM_010112]	NM_010112	1.02105
Mus musculus 0 day neonate eyeball cDNA, RIKEN full-length enriched library,	AK053709	-1.35387
Mus musculus interleukin 17B (Il17b), mRNA [NM_019508]	NM_019508	1.0373
Mus musculus endothelial cell growth factor 1 (platelet-derived) (Ecgf1), mRNA	NM_138302	1.0554
Mus musculus olfactory receptor 1377 (Olfr1377), mRNA [NM_146911]	NM_146911	-1.07364
Unknown		1.0385
RIKEN cDNA E230024E03 gene	AK081000	-1.05838
Mus musculus RIKEN cDNA 2010001H14 gene (2010001H14Rik), mRNA [NM_027227]	NM_027227	1.12847
Mus musculus oocyte specific homeobox 3 (Obox3), mRNA [NM_145707]	NM_145707	1.16256
Mus musculus RIKEN cDNA 2210006M16 gene (2210006M16Rik), mRNA [NM_029727]	NM_029727	-1.10426
RIKEN cDNA 1700023B23 gene	AK006262	1.19361
Mus musculus Treacher Collins Franceschetti syndrome 1, homolog (Tcof1), mF	NM_011552	1.24708
Mus musculus par-6 (partitioning defective 6) homolog beta (C. elegans) (Pard6	NM_021409	1.18232
Mus musculus similar to axonemal dynein heavy chain 7 (LOC227058), mRNA [XM_129770]		1.03192
Mus musculus nuclear factor, erythroid derived 2, like 2 (Nfe2l2), mRNA [NM_010902]	NM_010902	-1.30647
Mus musculus vomeronasal 1 receptor, G8 (V1rg8), mRNA [NM_134209]	NM_134209	1.11216
Replication factor C (activator 1) 3	AK042393	-1.18466
Dynein, cytoplasmic, light intermediate chain 1	BC005774	1.00586
Mus musculus homeo box D12 (Hoxd12), mRNA [NM_008274]	NM_008274	1.02216
Mus musculus RIKEN cDNA 9630048M01 gene (9630048M01Rik), mRNA [NM_177086]	NM_177086	1.02529
Mus musculus 15 days embryo male testis cDNA, RIKEN full-length enriched lib	AK033125	1
Mus musculus ankyrin 1, erythroid (Ank1), mRNA [NM_031158]	NM_031158	1.09589
Mus musculus olfactory receptor 846 (Olfr846), mRNA [NM_146282]	NM_146282	1.14382
Mus musculus olfactory receptor 539 (Olfr539), mRNA [NM_146961]	NM_146961	1.06994
Protein kinase, lysine deficient 3	AK038361	1.00298
RIKEN cDNA 4930539N22 gene	AK016003	1.10238
Mus musculus phosphoprotein enriched in astrocytes 15 (Pea15), mRNA [NM_011063]	NM_011063	1.16029
Mus musculus adenylosuccinate lyase (Adsl), mRNA [NM_009634]	NM_009634	1.0737
Cellular nucleic acid binding protein 2	AK015789	1.0542
Mus musculus ATP synthase mitochondrial F1 complex assembly factor 1 (Atpa	NM_181040	-1.08674
Mus musculus RIKEN cDNA 4930434E21 gene (4930434E21Rik), mRNA [NM_029440]	NM_029440	1.28544
Filaggrin	J03458	1.09046
Mus musculus muscleblind-like 1 (Drosophila) (Mbnl1), mRNA [NM_020007]	NM_020007	-1.42953
Mus musculus Wiskott-Aldrich syndrome protein interacting protein (Waspip), m	NM_153138	-1.12902
Arrestin, beta 1	AK004614	-1.06145
Mus musculus Ras suppressor protein 1 (Rsu1), mRNA [NM_009105]	NM_009105	-1.18211
Mus musculus insulin-like 5 (InsI5), mRNA [NM_011831]	NM_011831	1.11204
Mus musculus aldehyde dehydrogenase 1 family, member B1 (Aldh1b1), mRNA	NM_028270	1.11124
Mus musculus sarcalumenin (Srl), mRNA [NM_175347]	NM_175347	1.09538
Mus musculus RAB4B, member RAS oncogene family (Rab4b), mRNA [NM_029391]	NM_029391	1.07951
Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched li	AK081177	1.4318

RIKEN cDNA E030012M19 gene	AK086930	1
RIKEN cDNA 2510001I10 gene	AK041989	-1.07707
Mus musculus beta-carotene 15,15'-monooxygenase (Bcmo1), mRNA [NM_021NM_021486]		-1.01235
RIKEN cDNA A530057A03 gene	AK040991	-1.05635
Mus musculus proteasome (prosome, macropain) subunit, alpha type 6 (Psm6) NM_011968		-1.27371
Mus musculus RIKEN cDNA 0610009A07 gene (0610009A07Rik), mRNA [NM_027391]		-1.08661
Mus musculus resistin like beta (Retnlb), mRNA [NM_023881]	NM_023881	1
M.musculus I54 mRNA.	X61497	1.05991
Mus musculus RIKEN cDNA 2210021A15 gene (2210021A15Rik), mRNA [NM_173719]		-1.53246
Mus musculus WD repeat domain 9 (Wdr9), mRNA [NM_145125]	NM_145125	1.00847
Mus musculus UDP-N-acetyl-alpha-D-galactosamine:(N-acetylneuraminy)-galactose 4-epimerase (Uga) NM_008080		1.18968
RIKEN cDNA 9130022K13 gene	AK018646	1.02227
Mus musculus pallidin (Pldn), mRNA [NM_019788]	NM_019788	-1.00366
Keratinocyte differentiation associated protein	AA726579	-1.24805
Mus musculus CD19 antigen (Cd19), mRNA [NM_009844]	NM_009844	1.07707
Mus musculus solute carrier family 25 (mitochondrial carrier ornithine transporter) NM_011017		1.00179
UI-M-AO0-acb-b-08-0-UI.s2 NIH_BMAP_MPG Mus musculus cDNA clone UI-M AI841821		-1.08075
Mus musculus suppressor of variegation 3-9 homolog 1 (Drosophila) (Suv39h1) NM_011514		1.05254
Mus musculus olfactory receptor 144 (Olfr144), mRNA [NM_207665]	NM_207665	1.08994
Mucin 5, subtypes A and C, tracheobronchial/gastric	L42292	1.05535
Calcium/calmodulin-dependent protein kinase kinase 2, beta	BQ178288	-1.06236
Mus musculus pleiotropic regulator 1, PRL1 homolog (Arabidopsis) (Plrg1), mRNA [NM_016784]		-1.30694
RIKEN cDNA 4732486I23 gene	AK078821	1.08879
Mus musculus RIKEN cDNA 2310047I15 gene (2310047I15Rik), mRNA [NM_030207]		1.19549
Mus musculus potassium channel tetramerisation domain containing 5 (Kctd5), NM_027008		1.0166
Mus musculus testis nuclear RNA binding protein (Tenr), mRNA [NM_009350]	NM_009350	1.1014
Mus musculus UDP-glucose ceramide glucosyltransferase (Ugcg), mRNA [NM_011673]		1.14503
Mus musculus RIKEN cDNA A930008G19 gene (A930008G19Rik), mRNA [NM_212473]		-1.06966
Mus musculus xylosyltransferase II (Xylt2), mRNA [NM_145828]	NM_145828	-1.22549
RIKEN cDNA 2210016H18 gene	AK008737	-1.13513
Mus musculus GH regulated TBC protein 1 (Grtp1), mRNA [NM_025768]	NM_025768	-1.16284
RIKEN cDNA 4930451G09 gene	AK045650	-1.16363
Similar to monoclonal antibody kappa light chain	AF206032	-1.05747
AU051595 Sugano mouse brain mncb Mus musculus cDNA clone MNCb-2225 AU051595		-1.38619
Mus musculus procollagen, type I, alpha 2 (Col1a2), mRNA [NM_007743]	NM_007743	1.11802
Mus musculus dual specificity phosphatase 18 (Dusp18), mRNA [NM_173745]	NM_173745	1.15408
RIKEN cDNA A630035D09 gene	NM_009743	-1.00711
Unknown		1.07101
Mus musculus mitochondrial ribosomal protein S25 (Mrps25), mRNA [NM_025578]		-1.15114
Mus musculus keratin complex 2, basic, gene 17 (Krt2-17), mRNA [NM_010668]		-1.03606
RIKEN cDNA 2310043I08 gene	AK009779	-1.04706
Mindbomb homolog 1 (Drosophila)	AK053011	-1.03921
Mus musculus expressed sequence AI838661 (AI838661), mRNA [NM_133884]		1.04339
Mitochondrial ribosomal protein L53	AK052892	1.00845
Tetratricopeptide repeat domain 17	AK038364	1.00032
Mus musculus RIKEN cDNA 4930517K23 gene (4930517K23Rik), mRNA [NM_207275]		-1.01395
RIKEN cDNA 5830416A07 gene	BC003319	1.82184
RIKEN cDNA 6720475J19 gene	AK020103	1.02345
Mus musculus stromal cell derived factor 2 (Sdf2), mRNA [NM_009143]	NM_009143	-1.34446
C-type lectin domain family 2, member i	NM_020257	1.10668
Mus musculus mitochondrial ribosomal protein S17 (Mrps17), mRNA [NM_025454]		1.29792
RIKEN cDNA 2310037P21 gene	AK009669	-1.38432

Mus musculus anaphase promoting complex subunit 11 homolog (yeast) (Anapc11), mRNA [NM_025389]	NM_025389	-1.06822
Mus musculus orthodenticle homolog 3 (Drosophila) (Otx3), mRNA [NM_130866]	NM_130866	1.08405
Mus musculus A kinase (PRKA) anchor protein 8 (Akap8), mRNA [NM_019774]	NM_019774	-1.07073
Mus musculus nucleoporin 50 (Nup50), mRNA [NM_016714]	NM_016714	1.02151
T helper-inducing POZ/Krueppel factor	NM_009565	-1.06594
Glutamyl-prolyl-tRNA synthetase	AK088974	1.06893
Mus musculus zinc finger, MYM domain containing 1 (Zmym1), mRNA [NM_026670]	NM_026670	-1.59744
Mus musculus hypothetical LOC328023 (LOC328023), mRNA [XM_286373]	XM_286373	-1.0404
Mus musculus homeo box D1 (Hoxd1), mRNA [NM_010467]	NM_010467	1.00336
Mus musculus Down syndrome cell adhesion molecule (Dscam), mRNA [NM_031174]	NM_031174	1.11469
Mus musculus zinc finger protein 472 (Zfp472), mRNA [NM_153063]	NM_153063	-1.25138
Mus musculus 13 days embryo head cDNA, RIKEN full-length enriched library, clone AK013939	AK013939	-1.05334
Mus musculus RIKEN cDNA 2610020N02 gene (2610020N02Rik), mRNA [NM_181470]	NM_181470	-1.02707
Mus musculus cleft lip and palate associated transmembrane protein 1 (Clptm1), mRNA [NM_019649]	NM_019649	1.02658
Pleckstrin homology-like domain, family B, member 2	NM_153412	1.38414
RIKEN cDNA 2310002L09 gene	AK009124	-1.22654
DnaJ (Hsp40) homolog, subfamily C, member 11	AK053156	1.04122
RIKEN cDNA 4931403M11 gene	AK016429	-1.02738
Mus musculus vasoactive intestinal peptide receptor 2 (Vipr2), mRNA [NM_009511]	NM_009511	1.07456
Mus musculus olfactory receptor 669 (Olfr669), mRNA [NM_147043]	NM_147043	1.03437
Mus musculus DNA segment, Chr 3, ERATO Doi 300, expressed (D3Erd300e), mRNA [NM_019995]	NM_019995	-1.07511
Mus musculus olfactory receptor 1396 (Olfr1396), mRNA [NM_146337]	NM_146337	1.06781
Sestrin 1	BC055753	-1.16633
myo-inositol 1-phosphate synthase A1	NM_023627	1.00549
Mus musculus hydroxysteroid dehydrogenase-4, delta<5>-3-beta (Hsd3b4), mRNA [NM_008294]	NM_008294	1.06113
Mus musculus RIKEN cDNA 2610205E22 gene (2610205E22Rik), mRNA [NM_170592]	NM_170592	1.00331
Ribonuclease, RNase A family, 10 (non-active)	AK015573	1.06047
Mus musculus translocating chain-associating membrane protein 2 (Tram2), mRNA [NM_177409]	NM_177409	1.05761
Unc-51-like kinase 3 (C. elegans)	AK004783	1.03179
Solute carrier family 41, member 3	AK003140	-1.0496
Sorting nexin 13	AK122352	-1.31419
Mus musculus RIKEN cDNA 2410006F12 gene (2410006F12Rik), mRNA [NM_028020]	NM_028020	1.01278
Mus musculus RIKEN cDNA C330005M16 gene (C330005M16Rik), mRNA [NM_175319]	NM_175319	1.06731
Mus musculus carbonic anhydrase 13 (Car13), mRNA [NM_024495]	NM_024495	-1.18829
Mus musculus epithelial V-like antigen (Eva), mRNA [NM_007962]	NM_007962	-1.04403
Mus musculus RAS-related protein-1a (Rap1a), mRNA [NM_145541]	NM_145541	-1.88403
Mus musculus pregnancy-specific glycoprotein 30 (Psg30), mRNA [XM_145406]	XM_145406	1.03845
H3051B06-5 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H305BG080221		-1.32087
Mus musculus sodium channel, voltage-gated, type III, alpha polypeptide (Scn3a), mRNA [NM_018732]	NM_018732	-1.01404
Mus musculus defensin related cryptdin, related sequence 12 (Defcr-rs12), mRNA [NM_007846]	NM_007846	-1.09314
Mus musculus RIKEN cDNA 4931420D14 gene (4931420D14Rik), mRNA [NM_025738]	NM_025738	1.06596
Mus musculus pyrroline-5-carboxylate synthetase (glutamate gamma-semialdehyde aminotransferase), mRNA [NM_019698]	NM_019698	1.00927
Mus musculus transmembrane 4 superfamily member 6 (Tm4sf6), mRNA [NM_019656]	NM_019656	-1.41037
Proline-rich polypeptide 6	AK014046	1.14515
Mus musculus integrin, alpha E, epithelial-associated (Itgae), mRNA [NM_008339]	NM_008339	-1.01538
Mus musculus zinc finger protein 278 (Zfp278), mRNA [NM_019574]	NM_019574	1.05348
Mus musculus RIKEN cDNA 1110008B24 gene (1110008B24Rik), mRNA [NM_028632]	NM_028632	-1.13894
Polymerase (RNA) II (DNA directed) polypeptide I	BC062812	-1.11359
Mus musculus zinc finger protein 426 (Zfp426), mRNA [NM_146221]	NM_146221	-1.23994
RIKEN cDNA 9130012D09 gene	BC049361	1.02026
Mus musculus vacuolar protein sorting 35 (Vps35), mRNA [NM_022997]	NM_022997	-1.1976
Mus musculus diaphanous homolog 3 (Drosophila) (Diap3), mRNA [NM_019670]	NM_019670	-1.29171

15 days embryo male testis cDNA, RIKEN full-length enriched library, clone:803	AK033311	1.06033
Trichorhinophalangeal syndrome I (human)	AK046585	-1.29154
Mus musculus cDNA sequence BC027057 (BC027057), mRNA [NM_145976]	NM_145976	1.08623
Mus musculus adult male urinary bladder cDNA, RIKEN full-length enriched libr:	AK079230	1.01236
Mitogen-activated protein kinase kinase kinase 14	AK006468	1.04424
sphingosine-1-phosphate phosphotase 2	BC049995	1.00725
Mus musculus dihydropyrimidine dehydrogenase (Dpyd), mRNA [NM_170778]	NM_170778	1.16153
Mus musculus zyxin (Zyx), mRNA [NM_011777]	NM_011777	-1.0854
Mus musculus utrophin (Utrn), mRNA [NM_011682]	NM_011682	1.0201
Mus musculus kelch domain containing 3 (Klhdc3), mRNA [NM_027910]	NM_027910	1.04297
RIKEN cDNA 4930432J16 gene	BC057359	1.03831
BC003770 heat shock protein, 110 kDa {Mus musculus}, complete [TC1048676]		-1.24623
DnaJ (Hsp40) homolog, subfamily C, member 1	AK014639	1.01631
Mus musculus proliferating cell nuclear antigen (Pcna), mRNA [NM_011045]	NM_011045	-1.18752
Chromobox homolog 3 (Drosophila HP1 gamma)	AK002910	-1.21065
RIKEN cDNA 1700015M15 gene	AK006002	1.09841
RIKEN cDNA 1700109H08 gene	AK007150	1.07434
RIKEN cDNA D030011O10 gene	AK034156	1.33722
Mus musculus growth differentiation factor 3 (Gdf3), mRNA [NM_008108]	NM_008108	1.1276
Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 10 (A	NM_145140	1.11341
Mus musculus RIKEN cDNA 1700019B16 gene (1700019B16Rik), mRNA [NM_	NM_028829	-1.1046
Mus musculus protein inhibitor of activated STAT 1 (Pias1), mRNA [NM_019663]	NM_019663	-1.05306
Mus musculus vomeronasal 1 receptor, D7 (V1rd7), mRNA [NM_030737]	NM_030737	1.06294
Mus musculus WW domain binding protein 1 (Wbp1), mRNA [NM_016757]	NM_016757	-1.19476
Solute carrier family 22 (organic anion transporter), member 20	AK053009	1.29255
Mus musculus CD109 antigen (Cd109), mRNA [NM_153098]	NM_153098	-1.08947
Mus musculus myosin XVIIIa (Myo18a), mRNA [NM_011586]	NM_011586	1.1256
Protein kinase inhibitor beta, cAMP dependent, testis specific	L02241	-1.29705
RIKEN cDNA D130067C23 gene	AF062567	-1.27176
RIKEN cDNA D230014I24 gene	BC010717	-1.05677
Mus musculus phosphatase and actin regulator 4 (Phactr4), mRNA [NM_175301]	NM_175301	-1.27146
RIKEN cDNA 3222402P14 gene	AK082967	1
Mus musculus zinc finger protein 2, Y linked (Zfy2), mRNA [NM_009571]	NM_009571	-1.05089
Mus musculus netrin G1 (Ntng1), mRNA [NM_030699]	NM_030699	1.00415
RIKEN cDNA 9530027K23 gene	AK088755	-1.11326
Mus musculus choroideremia (Chm), mRNA [NM_018818]	NM_018818	-1.36623
Mus musculus longevity assurance homolog 5 (S. cerevisiae) (Lass5), mRNA [NM_028015]	NM_028015	-1.04843
Mus musculus RIKEN cDNA 5730421E18 gene (5730421E18Rik), mRNA [NM_	NM_025675	-1.07593
Ras and a-factor-converting enzyme 1 homolog (S. cerevisiae)	AK035942	1.00643
Mus musculus fucokinase (Fuk), transcript variant 1, mRNA [NM_172283]	NM_172283	-1.02739
Mus musculus RIKEN cDNA 4430402O11 gene (4430402O11Rik), mRNA [NM_	NM_026272	1.01258
Mus musculus chemokine (C motif) receptor 1 (Xcr1), mRNA [NM_011798]	NM_011798	1.25646
Mus musculus open reading frame 28 (ORF28), mRNA [NM_138664]	NM_138664	1.00074
Mus musculus Hus1 homolog b (S. pombe) (Hus1b), mRNA [NM_153072]	NM_153072	1.0733
Mus musculus growth factor receptor bound protein 10 (Grb10), mRNA [NM_010345]	NM_010345	1.0106
Mus musculus Atpase, class VI, type 11C (Atp11c), mRNA [NM_001001798]	NM_001001798	1.00258
Mus musculus Fas apoptotic inhibitory molecule (Faim), mRNA [NM_011810]	NM_011810	-1.52967
Mus musculus phosphoprotein associated with glycosphingolipid-enriched micr	NM_053182	1.11059
Mus musculus RIKEN cDNA 1700029I01 gene (1700029I01Rik), mRNA [NM_027285]	NM_027285	-1.22913
Mus musculus glucosamine (Gne), mRNA [NM_015828]	NM_015828	1.20765
Mus musculus syndecan 4 (Sdc4), mRNA [NM_011521]	NM_011521	1.20232
Mus musculus longevity assurance homolog 4 (S. cerevisiae) (Lass4), mRNA [NM_026058]	NM_026058	-1.1078

Mus musculus a disintegrin and metalloprotease domain 23 (Adam23), mRNA [I	NM_011780	-1.05925
TAO kinase 2	AK046145	1.09299
Mus musculus RIKEN cDNA 9030612M13 gene (9030612M13Rik), mRNA [NM_	NM_172458	-1.04522
Ras association (RalGDS/AF-6) domain family 5	NM_018750	-1.04463
Mus musculus 16 days neonate cerebellum cDNA, RIKEN full-length enriched li	AK035983	1.01353
Mus musculus RIKEN cDNA 3110003A17 gene (3110003A17Rik), mRNA [XM_	XM_125510	-1.6238
Mus musculus guanine nucleotide binding protein, beta 4 (Gnb4), mRNA [NM_0	NM_013531	1.11562
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 42 (Ddx42), mRNA [NI	NM_028074	-1.4805
FK506 binding protein 12-rapamycin associated protein 1	NM_020009	1.12756
Mus musculus growth differentiation factor 1 (Gdf1), mRNA [NM_008107]	NM_008107	1.39083
Protein kinase, lysine deficient 1	AK032505	1.03515
Mus musculus olfactory receptor 26 (Olfr26), mRNA [NM_146783]	NM_146783	1.20098
Mus musculus cytochrome c oxidase, subunit Va (Cox5a), mRNA [NM_007747]	NM_007747	-1.24759
Mus musculus RIKEN cDNA 4930550B20 gene (4930550B20Rik), mRNA [NM_	NM_152825	-1.31158
Mus musculus olfactory receptor 159 (Olfr159), mRNA [NM_019476]	NM_019476	-1.11302
Mus musculus aspartyl-tRNA synthetase (Dars), mRNA [NM_177445]	NM_177445	-1.70565
Mus musculus RIKEN cDNA 1110008J03 gene (1110008J03Rik), mRNA [NM_	(NM_029096	1.24853
Mus musculus expressed sequence AV071179 (AV071179), mRNA [NM_03118	NM_031180	1.03714
Cyclin-dependent kinase-like 3	AK046394	-1.02075
Mus musculus glutamyl-prolyl-tRNA synthetase (Eprs), mRNA [XM_129647]	XM_129647	-1.16331
Mus musculus mitochondrial ribosomal protein L46 (Mrpl46), mRNA [NM_02333	NM_023331	-1.20003
Mus musculus interferon alpha family, gene 1 (Ifna1), mRNA [NM_010502]	NM_010502	1.05157
Mus musculus olfactory receptor 1250 (Olfr1250), mRNA [NM_146965]	NM_146965	1.01727
Mus musculus glioblastoma amplified sequence (Gbas), mRNA [NM_008095]	NM_008095	-1.57046
Synaptotagmin 11	AK075724	1.06993
Mus musculus desmin (Des), mRNA [NM_010043]	NM_010043	1.35299
Glutamate receptor, ionotropic, kainate 3	AF245444	-1.15703
Mus musculus potassium intermediate/small conductance calcium-activated cha	NM_032397	-1.09238
Mus musculus thiopurine methyltransferase (Tpm1), mRNA [NM_016785]	NM_016785	-1.03043
Mus musculus expressed sequence AI317395 (AI317395), mRNA [NM_144821]	NM_144821	-1.19073
Mus musculus deformed epidermal autoregulatory factor 1 (Drosophila) (Deaf1)	NM_016874	1.09437
Mus musculus CNDP dipeptidase 2 (metallopeptidase M20 family) (Cndp2), mR	NM_023149	1.02729
Mus musculus interferon-stimulated protein (Isg20), mRNA [NM_020583]	NM_020583	-1.08949
Chemokine (C-C motif) receptor 8	NM_007720	-1.01124
Mus musculus gap junction membrane channel protein beta 4 (Gjb4), mRNA [NI	NM_008127	-1.03532
Mus musculus RIKEN cDNA 1110012M11 gene (1110012M11Rik), mRNA [NM_	NM_028617	-1.08838
Mus musculus RIKEN cDNA C820005L12 gene (C820005L12Rik), mRNA [NM_	NM_172814	-1.13047
Mus musculus RIKEN cDNA 2810037C03 gene (2810037C03Rik), mRNA [NM_	NM_024240	-1.18829
Mus musculus purinergic receptor P2X, ligand-gated ion channel, 7 (P2rx7), mR	NM_011027	1.07988
Mus musculus kallikrein 1 (Kik1), mRNA [NM_010645]	NM_010645	1.01304
Calcium and integrin binding family member 3	AK050094	1.01117
Mus musculus keratin associated protein 8-2 (Krtap8-2), mRNA [NM_010676]	NM_010676	-1.07389
Mus musculus A kinase (PRKA) anchor protein 1 (Akap1), mRNA [NM_009648]	NM_009648	-1.04718
Mus musculus DNA segment, Chr 2, ERATO Doi 97, expressed (D2Ert97e), m	NM_178693	1.00483
TATA box binding protein-like 1	AK028621	1.0809
Mus musculus zinc finger protein 9 (Zfp9), mRNA [NM_011763]	NM_011763	-1.02887
Mus musculus DNA segment, Chr 11, Wayne State University 68, expressed (D	NM_026776	1.04309
Mus musculus vomeronasal 1 receptor, C4 (V1rc4), mRNA [NM_053234]	NM_053234	-1.07395
Mus musculus RIKEN cDNA E030024M05 gene (E030024M05Rik), mRNA [NM	NM_172574	-1.06787
Mus musculus sema domain, immunoglobulin domain (Ig), transmembrane dom	NM_013660	1.13566
Mus musculus fibroblast growth factor receptor 1 (Fgfr1), mRNA [NM_010206]	NM_010206	1.03048
Cell division cycle 27 homolog (S. cerevisiae)	BC023187	1.16912

Mus musculus benzodiazapine receptor associated protein 1 (Bzrap1), mRNA [NM_172449]	NM_172449	1.06583
Mus musculus surfet gene 1 (Surf1), mRNA [NM_013677]	NM_013677	-1.11548
RIKEN cDNA 2310028H24 gene	AK009522	-1.13247
Mus musculus olfactory receptor 554 (Olf554), mRNA [NM_146325]	NM_146325	1.01633
ST3 beta-galactoside alpha-2,3-sialyltransferase 2	NM_009179	-1.13695
Mus musculus coronin, actin binding protein 1B (Coro1b), mRNA [NM_011778]	NM_011778	1.09374
Mus musculus secreted frizzled-related sequence protein 2 (Sfrp2), mRNA [NM_009144]	NM_009144	1.00489
DNA topoisomerase 1, mitochondrial	AK013665	1.06545
Mus musculus RIKEN cDNA 2810047L02 gene (2810047L02Rik), mRNA [NM_029766]	NM_029766	1.46676
Mus musculus interferon alpha family, gene B (Ifnab), mRNA [NM_008336]	NM_008336	1.06976
Myosin, heavy polypeptide 11, smooth muscle	NM_013607	1.13395
Mus musculus metallothionein-like 5, testis-specific (tesmin) (Mtl5), mRNA [NM_010841]	NM_010841	-1.00984
Mus musculus SH3 domain protein D19 (Sh3d19), mRNA [NM_012059]	NM_012059	-1.24279
Mus musculus expressed sequence AU041783 (AU041783), mRNA [NM_146102]	NM_146102	-1.23159
hypothetical protein D130094J20	AK051796	1
RIKEN cDNA 1500005K14 gene	AK005164	-1.05729
Hypothetical protein B230205M03	AK038845	1.15992
Mus musculus Rho GTPase activating protein 17 (Arhgap17), mRNA [NM_144529]	NM_144529	1.04862
Mus musculus adult male olfactory brain cDNA, RIKEN full-length enriched library, clone:AK078302	AK078302	-1.00966
0 day neonate eyeball cDNA, RIKEN full-length enriched library, clone:E130012	AK053379	1.00617
Mus musculus ligatin (Lgtn), mRNA [NM_010709]	NM_010709	-1.05633
Mus musculus antigenic determinant of rec-A protein (Kin), mRNA [NM_025280]	NM_025280	-1.21822
Mus musculus serine (or cysteine) proteinase inhibitor, clade G, member 1 (SerpinG1), mRNA [NM_009776]	NM_009776	1.26596
Mus musculus RIKEN cDNA 2810485I05 gene (2810485I05Rik), mRNA [NM_176836]	NM_176836	-1.21049
Regulatory solute carrier protein, family 1, member 1	AK004273	-1.17046
Mus musculus alpha-2-glycoprotein 1, zinc (Azgp1), mRNA [NM_013478]	NM_013478	1.04589
Mus musculus roundabout homolog 4 (Drosophila) (Robo4), mRNA [NM_028783]	NM_028783	-1.13497
Mus musculus RAS-like, estrogen-regulated, growth-inhibitor (Rerg), mRNA [NM_181988]	NM_181988	-1.1538
Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 3B (Ppp1r3b), mRNA [NM_177741]	NM_177741	-1.05989
Mus musculus RIKEN cDNA C030034J04 gene (C030034J04Rik), mRNA [NM_175023]	NM_175023	-1.01335
Hypothetical protein B930099G20	AK006368	1.07946
Zinc finger protein 128	NM_153802	1.05873
Melanoma antigen, family D, 2	NM_030700	1.10301
Mus musculus solute carrier family 30 (zinc transporter), member 5 (Slc30a5), mRNA [NM_022885]	NM_022885	-1.34379
Mus musculus olfactory receptor 1491 (Olf1491), mRNA [NM_146345]	NM_146345	1.00631
Cytochrome c oxidase subunit VIIIb	AK086654	-1.12548
Similar to DNA segment, Chr 18, Wayne State University 98, expressed	BB617293	1.07576
Mus musculus caspase recruitment domain family, member 10 (Card10), mRNA [NM_130859]	NM_130859	1.01737
RIKEN cDNA 2610005L07 gene	BC058969	-1.03079
Ornithine decarboxylase antizyme	AK003452	1.22635
Mus musculus snail homolog 2 (Drosophila) (Snai2), mRNA [NM_011415]	NM_011415	-1.77175
Mus musculus vomeronasal 1 receptor, L1 (V1r1), mRNA [NM_134228]	NM_134228	1.06183
Mus musculus endonuclease G (Endog), mRNA [NM_007931]	NM_007931	1.0015
Mus musculus Son cell proliferation protein (Son), transcript variant 2, mRNA [NM_019973]	NM_019973	-1.32783
Centromere autoantigen F	AF194970	-1.12471
Mus musculus MYST histone acetyltransferase monocytic leukemia 4 (Myst4), mRNA [NM_017479]	NM_017479	-1.07994
Mus musculus kelch-like 2, Mayven (Drosophila) (Kihl2), mRNA [NM_178633]	NM_178633	-2.17036
Mus musculus hypoxia inducible factor 1, alpha subunit (Hif1a), mRNA [NM_010431]	NM_010431	-1.40937
Mus musculus Purkinje cell protein 4 (Pcp4), mRNA [NM_008791]	NM_008791	1.09946
Mus musculus WD repeat domain 40B (Wdr40b), mRNA [NM_178739]	NM_178739	-1.04821
RIKEN cDNA 5330430C04 gene	AK019921	1.16884
Mus musculus vomeronasal 1 receptor, H9 (V1rh9), mRNA [NM_134218]	NM_134218	1.05825

Mus musculus bradykinin receptor, beta 2 (Bdkrb2), mRNA [NM_009747]	NM_009747	-1.01723
Mus musculus recoverin (Rcvrn), mRNA [NM_009038]	NM_009038	1.07463
RIKEN cDNA 4632413I24 gene	AK014573	-1.03713
Mus musculus FK506 binding protein 2 (Fkbp2), mRNA [NM_008020]	NM_008020	-1.14845
Mus musculus apurinic/apyrimidinic endonuclease 1 (Apex1), mRNA [NM_0096]	NM_009687	-1.03098
Mus musculus Hpall tiny fragments locus 9c (Htf9c), mRNA [NM_008307]	NM_008307	-1.19823
Mus musculus glutathione peroxidase 5 (Gpx5), mRNA [NM_010343]	NM_010343	1.01894
Mus musculus leucine rich repeat protein 1, neuronal (Lrrn1), mRNA [NM_0085]	NM_008516	-1.08601
Mus musculus RIKEN cDNA 2810403B08 gene (2810403B08Rik), mRNA [NM_028815]	NM_028815	1.08576
Mus musculus RIKEN cDNA 4933402O15 gene (4933402O15Rik), mRNA [NM_175349]	NM_175349	1.01847
Mus musculus neutrophil cytosolic factor 4 (Ncf4), mRNA [NM_008677]	NM_008677	-1.09372
Mus musculus thioredoxin-like 1 (Txnl1), mRNA [NM_016792]	NM_016792	-1.67573
Lymphocyte antigen 6 complex, locus C	NM_010741	-1.11434
Mus musculus tyrosine aminotransferase (Tat), mRNA [NM_146214]	NM_146214	1.1215
Mus musculus heat shock 70kDa protein 12A (Hspa12a), mRNA [NM_175199]	NM_175199	1
Mus musculus G protein coupled receptor 24 (Gpr24), mRNA [NM_145132]	NM_145132	2.17222
Ellis van Creveld syndrome 2 homolog (human)	AK044977	1.08117
Mus musculus solute carrier family 24 (sodium/potassium/calcium exchanger), member 1	NM_172426	1.00823
Solute carrier family 43, member 1	AK011417	1.09863
Mus musculus LSM3 homolog, U6 small nuclear RNA associated (S. cerevisiae)	NM_026309	-1.20064
Homer homolog 2 (Drosophila)	AB017136	1.11974
Mus musculus vomeronasal 1 receptor, E7 (V1re7), mRNA [NM_134196]	NM_134196	-1.02196
Mus musculus DNA segment, Chr 4, Wayne State University 132, expressed (D)	NM_138590	-1.08182
Mus musculus small nuclear RNA activating complex, polypeptide 4 (Snapc4), nuclear	NM_172339	-1.09617
Mus musculus Rad51 homolog c (S. cerevisiae) (Rad51c), mRNA [NM_053269]	NM_053269	-1.1461
Mus musculus RIKEN cDNA 5330414D10 gene (5330414D10Rik), mRNA [NM_153594]	NM_153594	-1.42185
WD repeat and HMG-box DNA binding protein 1	AK052690	1.14123
Mus musculus S-adenosylhomocysteine hydrolase (Ahcy), mRNA [NM_016661]	NM_016661	-1.16862
Mus musculus olfactory receptor 1255 (Olfr1255), mRNA [NM_146977]	NM_146977	1.02054
Mus musculus olfactomedin 3 (Olfm3), transcript variant B, mRNA [NM_153157]	NM_153157	-1.10218
Chromodomain helicase DNA binding protein 3	BC055484	1.16422
Mus musculus olfactory receptor 1403 (Olfr1403), mRNA [NM_146651]	NM_146651	-1.01554
Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 1	NM_009197	-1.28197
Mus musculus reduced expression 2 (Rex2), mRNA [NM_009051]	NM_009051	1.07839
Mus musculus arsenic (+3 oxidation state) methyltransferase (As3mt), mRNA [NM_020577]	NM_020577	-1.28466
Mus musculus prostaglandin E synthase 2 (Ptges2), mRNA [NM_133783]	NM_133783	1.18492
Mus musculus expressed in non-metastatic cells 1, protein (Nme1), mRNA [NM_008704]	NM_008704	1.08188
Mus musculus probasin (Pbsn), mRNA [NM_017471]	NM_017471	1
Mus musculus keratin complex-1, acidic, gene C29 (Krt1-c29), mRNA [NM_010666]	NM_010666	1.04545
Mus musculus cDNA sequence BC038479 (BC038479), mRNA [NM_153803]	NM_153803	-1.00022
Mus musculus RIKEN cDNA 2700067E09 gene (2700067E09Rik), mRNA [NM_175185]	NM_175185	-1.05035
Mus musculus UDP-glucuronosyltransferase 8 (Ugt8), mRNA [NM_011674]	NM_011674	1.09811
Mus musculus trafficking protein particle complex 5 (Trappc5), mRNA [NM_025701]	NM_025701	-1.0798
Mus musculus RIKEN cDNA B130055L09 gene (B130055L09Rik), mRNA [NM_172467]	NM_172467	1.10374
Autism susceptibility candidate 2	BC058110	1.08562
RIKEN cDNA A230009B12 gene	AK005771	1.10024
RIKEN cDNA 1500009C09 gene	AK005178	1.05193
Mus musculus adrenergic receptor, alpha 1d (Adra1d), mRNA [NM_013460]	NM_013460	1.09999
RIKEN cDNA 4933435A13 gene	AK020456	1.24695
Mus musculus G-rich RNA sequence binding factor 1 (Grsf1), mRNA [NM_1787]	NM_178700	-1.22866
Mus musculus olfactory receptor 616 (Olfr616), mRNA [NM_147099]	NM_147099	1.12327
Mus musculus RIKEN cDNA 9930021D14 gene (9930021D14Rik), mRNA [NM_175682]	NM_175682	1.01862

Mus musculus cannabinoid receptor 1 (brain) (Cnr1), mRNA [NM_007726]	NM_007726	1.07409
Mus musculus neuromedin B receptor (Nmbr), mRNA [NM_008703]	NM_008703	1.08631
Mus musculus neuroblastoma ras oncogene (Nras), mRNA [NM_010937]	NM_010937	-1.06711
Mus musculus RIKEN cDNA 2810423O19 gene (2810423O19Rik), transcript va	NM_026447	1.07048
Mus musculus extracellular proteinase inhibitor (Expi), mRNA [NM_007969]	NM_007969	1.00492
Mus musculus myosin, heavy polypeptide 7, cardiac muscle, beta (Myh7), mRN	NM_080728	1.00008
Mus musculus RIKEN cDNA 4933440M02 gene (4933440M02Rik), mRNA [NM_	NM_172408	1.13755
Mus musculus pecanex homolog (Drosophila) (Pcnx), mRNA [NM_018814]	NM_018814	-1.45691
Mus musculus oncoprotein induced transcript 3 (Oit3), mRNA [NM_010959]	NM_010959	1.11102
TD and POZ domain containing 1	AK033449	1.00389
Mus musculus leucine zipper protein 1 (Luzp1), mRNA [NM_024452]	NM_024452	-1.10797
Mus musculus olfactory receptor 910 (Olfr910), mRNA [NM_146811]	NM_146811	1.14467
Mus musculus phosphatidylinositol transfer protein, membrane-associated 2 (Pi	NM_011256	1.11781
Activating signal cointegrator 1 complex subunit 3	AK084851	1.02879
Mus musculus cDNA sequence BC027163 (BC027163), mRNA [NM_146224]	NM_146224	1.01336
RIKEN cDNA 9430057O19 gene	AK034894	1.09884
Mus musculus vestigial like 1 homolog (Drosophila) (Vgll1), mRNA [NM_133251	NM_133251	1.07434
Mus musculus arachidonate 15-lipoxygenase (Alox15), mRNA [NM_009660]	NM_009660	-1.03944
Synaptojanin 1	AK044844	1.05298
Mus musculus mitochondrial ribosomal protein L12 (Mrpl12), mRNA [NM_02720	NM_027204	-1.0289
Mus musculus oocyte specific homeobox 6 (Obox6), mRNA [NM_145710]	NM_145710	1.07901
Mus musculus RIKEN cDNA 9330195C02 gene (9330195C02Rik), mRNA [NM_	NM_176971	1.05994
Mus musculus catenin alpha-like 1 (Catal1), mRNA [NM_018761]	NM_018761	-1.13043
Peroxisome proliferative activated receptor, gamma, coactivator-related 1	BC066048	1.02367
RIKEN cDNA 1110059F07 gene	AK048759	-1.14447
Mus musculus MAP3K12 binding inhibitory protein 1 (Mbip), mRNA [NM_14544	NM_145442	-1.68854
Mus musculus angiopoietin-like 3 (Angptl3), mRNA [NM_013913]	NM_013913	1.13032
Mus musculus olfactory receptor 1484 (Olfr1484), mRNA [NM_146291]	NM_146291	1.02357
Mus musculus even skipped homeotic gene 2 homolog (Evx2), mRNA [NM_007	NM_007967	1.03302
Mus musculus CUE domain containing 2 (Cuedc2), mRNA [NM_024192]	NM_024192	1.00078
RIKEN cDNA 1700034F02 gene	AK006591	-1.07272
Mus musculus RIKEN cDNA 1810011O16 gene (1810011O16Rik), mRNA [NM_	NM_025456	-1.23186
Mus musculus RIKEN cDNA 9430095K15 gene (9430095K15Rik), mRNA [NM_	NM_177152	-1.071
Mus musculus protein tyrosine phosphatase-like (proline instead of catalytic arg	NM_023587	-1.37692
Mus musculus FMS-like tyrosine kinase 3 ligand (Flt3l), mRNA [NM_013520]	NM_013520	-1.12865
Mus musculus olfactory receptor 354 (Olfr354), mRNA [NM_146939]	NM_146939	1.1056
RIKEN cDNA 1700054O19 gene	AK006789	-1.10563
Mus musculus carnitine palmitoyltransferase 2 (Cpt2), mRNA [NM_009949]	NM_009949	-1.25278
RIKEN cDNA 9930116O05 gene	AK037109	-1.24489
Mus musculus purinergic receptor (family A group 5) (P2y5), mRNA [NM_17511	NM_175116	-1.07781
Fibrinogen-like protein 1	AK083397	1.06003
Transportin 3	AK049446	1
Mus musculus expressed sequence AA408868 (AA408868), mRNA [NM_03061	NM_030612	-1.23989
Mus musculus RIKEN cDNA B430201G11 gene (B430201G11Rik), mRNA [NM_	NM_172894	1.22627
Mus musculus nuclear prelamin A recognition factor-like (Narfl), mRNA [NM_02	NM_026238	-1.07196
RIKEN cDNA 4632407F12 gene	AK014553	1.00762
Mus musculus ribonuclease/angiogenin inhibitor 2 (Rnh2), mRNA [NM_031389]	NM_031389	-1.01474
Mus musculus RIKEN cDNA 1700065I17 gene (1700065I17Rik), mRNA [NM_0	NM_026099	-1.00916
Mus musculus genetic suppressor element 1 (Gse1), mRNA [NM_198671]	NM_198671	1.22849
Mus musculus alpha glucosidase 2 alpha neutral subunit (Ganab), mRNA [NM_	NM_008060	-1.14014
RIKEN cDNA 4931429I11 gene	AK016487	1.0351
Sorbin and SH3 domain containing 1	AK122487	-1.38556

Mus musculus serine (or cysteine) proteinase inhibitor, clade E, member 2 (SerpinE2), mRNA [NM_009255]	NM_009255	-1.36064
Mus musculus Hermansky-Pudlak syndrome 3 homolog (human) (Hps3), mRNA [NM_080634]	NM_080634	-1.11712
Mus musculus coatomer protein complex subunit alpha (Copa), mRNA [NM_009938]	NM_009938	-1.02834
Mus musculus lymphoblastomic leukemia (Lyl1), mRNA [NM_008535]	NM_008535	-1.02926
RIKEN cDNA 5730493B19 gene	AK017723	1.21965
Icos ligand	NM_015790	-1.17259
Mus musculus suppressor of Ty 3 homolog (S. cerevisiae) (Supt3h), mRNA [NM_178652]	NM_178652	1.09345
Mus musculus aryl-hydrocarbon receptor (Ahr), mRNA [NM_013464]	NM_013464	-1.34027
Mus musculus complement component factor i (Cfi), mRNA [NM_007686]	NM_007686	1.00122
Unknown		1.03391
Mus musculus olfactory receptor 1366 (Olfr1366), mRNA [NM_146283]	NM_146283	1.0491
RIKEN cDNA 4432411E13 gene	AK083545	1.00596
Mus musculus toll-like receptor 3 (Tlr3), mRNA [NM_126166]	NM_126166	-1.07299
Mus musculus protein tyrosine phosphatase, receptor type, E (Ptpre), mRNA [NM_011212]	NM_011212	-1.01115
F-box only protein 32	NM_026346	-1.20087
Mus musculus glycine amidinotransferase (L-arginine:glycine amidinotransferase), mRNA [NM_025961]	NM_025961	1.03169
Mus musculus RIKEN cDNA 0610025O11 gene (0610025O11Rik), mRNA [NM_025799]	NM_025799	-1.41645
RIKEN cDNA 2810422B04 gene	AK032831	-1.14434
LOC433127	BC050855	1.25534
RIKEN cDNA 4930528F23 gene	AK015924	1.13029
15 days embryo male testis cDNA, RIKEN full-length enriched library, clone:803	AK033258	-1.01048
EH-domain containing 2	AK031203	1.02489
Mus musculus olfactory receptor 45 (Olfr45), mRNA [NM_146963]	NM_146963	1.17598
Mus musculus cyclin B3 (Ccnb3), mRNA [NM_183015]	NM_183015	1.07996
Mus musculus RIKEN cDNA 6330406I15 gene (6330406I15Rik), mRNA [NM_027519]	NM_027519	-1.01181
Mus musculus RIKEN cDNA 3010033P07 gene (3010033P07Rik), mRNA [NM_029767]	NM_029767	-1.24588
adaptor protein with pleckstrin homology and src	NM_018825	1.06402
Mus musculus acetyl-Coenzyme A acetyltransferase 3 (Acat3), mRNA [NM_153151]	NM_153151	-1.19845
Mus musculus cholinergic receptor, nicotinic, alpha polypeptide 2 (neuronal) (Chrna2), mRNA [NM_144803]	NM_144803	-1.03224
Mus musculus glutathione peroxidase 7 (Gpx7), mRNA [NM_024198]	NM_024198	1.11142
Mus musculus glutamate oxaloacetate transaminase 2, mitochondrial (Got2), mRNA [NM_010325]	NM_010325	1.10763
Mus musculus RIKEN cDNA 6030460N08 gene (6030460N08Rik), mRNA [XM_127084]	XM_127084	1.57202
hypothetical protein 4632417D23	NM_172934	-1.00168
Mus musculus Rab acceptor 1 (prenylated) (Rabac1), mRNA [NM_010261]	NM_010261	1.03287
Mus musculus vomeronasal 1 receptor, G5 (V1rg5), mRNA [NM_134206]	NM_134206	1.12373
Mus musculus homeo box A1 (Hoxa1), mRNA [NM_010449]	NM_010449	-1.19242
Mus musculus cDNA sequence BC066107 (BC066107), mRNA [NM_207245]	NM_207245	-1.00979
Helicase, lymphoid specific	NM_008234	-1.10009
Mus musculus DNA segment, Chr 7, ERATO Doi 462, expressed (D7Ert462e), mRNA [NM_028771]	NM_028771	-1.12139
RIKEN cDNA C430017H16 gene	AK049496	-1.28821
Mus musculus frizzled homolog 2 (Drosophila) (Fzd2), mRNA [NM_020510]	NM_020510	1.21059
Mus musculus baculoviral IAP repeat-containing 3 (Birc3), mRNA [NM_007464]	NM_007464	-1.08411
G protein-coupled receptor associated sorting protein 1	AK039156	-1.3422
Mus musculus cDNA sequence BC019693 (BC019693), mRNA [NM_144835]	NM_144835	1.09972
Mus musculus serologically defined colon cancer antigen 1 (Sdccag1), transcript [NM_025441]	NM_025441	-1.05971
Mus musculus WD repeat domain 21 (Wdr21), mRNA [NM_030246]	NM_030246	1.0071
Mus musculus frizzled homolog 10 (Drosophila) (Fzd10), mRNA [NM_175284]	NM_175284	-1.04272
Mus musculus protease (prosome, macropain) 26S subunit, ATPase 5 (Psmc5), mRNA [NM_008950]	NM_008950	-1.22401
RIKEN cDNA 2610024A01 gene	BC059048	-1.10095
Mus musculus histocompatibility 2, Q region locus 10 (H2-Q10), mRNA [NM_01010391]	NM_01010391	1.23327
Mus musculus RIKEN cDNA D630003K02 gene (D630003K02Rik), mRNA [NM_177216]	NM_177216	1.08829
Mus musculus RIKEN cDNA 2610524G09 gene (2610524G09Rik), mRNA [NM_030244]	NM_030244	1.19286

Mus musculus zinc finger protein 185 (Zfp185), mRNA [NM_009549]	NM_009549	-1.14534
Mus musculus adult male corpora quadrigemina cDNA, RIKEN full-length enrich	AK045928	1.0526
DNA segment, Chr 5, Brigham & Women's Genetics 0834 expressed	AK028192	1.04485
Mus musculus synaptotagmin-like 3 (Sytl3), transcript variant 2, mRNA [NM_18:NM_183367]		1.02402
Mus musculus proteasome (prosome, macropain) subunit, beta type 2 (Psmb2), NM_011970		-1.33965
Unknown		1.04065
Mus musculus olfactory receptor 992 (Olfr992), mRNA [NM_146865]	NM_146865	1.04669
Mus musculus sirtuin 7 (silent mating type information regulation 2, homolog) 7 (NM_153056)		-1.10336
Mus musculus RIKEN cDNA A030009H04 gene (A030009H04Rik), mRNA [NM_NM_020591]		-1.43271
Mus musculus DNA segment, Chr 12, ERATO Doi 553, expressed (D12Ert553 NM_029758)		-1.29198
RIKEN cDNA 5330417C22 gene	BC022655	-1.01674
Mus musculus SRY-box containing gene 13 (Sox13), mRNA [NM_011439]	NM_011439	-1.37249
RIKEN cDNA 2410017P09 gene	BC067010	1.01278
RIKEN cDNA 1700127F16 gene	AK006001	1.07298
Mus musculus tolloid-like 2 (Tll2), mRNA [NM_011904]	NM_011904	1.03141
Mannoside acetylglucosaminyltransferase 4, isoenzyme B	BC026638	1.02287
Mus musculus zinc finger protein 454 (Zfp454), mRNA [NM_172794]	NM_172794	1.08775
Mitogen activated protein kinase 1	AK018549	-1.23135
Mus musculus mitochondrial ribosomal protein S28 (Mrps28), mRNA [NM_0254 NM_025434]		-1.13138
Mus musculus HIV-1 Rev binding protein-like (Hrbl), mRNA [NM_145566]	NM_145566	1.10802
Mus musculus olfactory receptor 1133 (Olfr1133), mRNA [NM_146351]	NM_146351	-1.01343
Mus musculus Down syndrome critical region homolog 5 (human) (Dscr5), mRNA [NM_019543]		-1.42634
RAB GTPase activating protein 1-like	AK079698	1.0447
Sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaph	AK034123	-1.0557
Myosin VC	AK033571	-1.11075
Mus musculus Down syndrome critical region homolog 1 (human) (Dscr1), mRNA [NM_019466]		1.00509
Mus musculus RIKEN cDNA 4930483J18 gene (4930483J18Rik), mRNA [NM_026288]		1.04918
Adenylate kinase 7	AK019664	-1.09896
Mus musculus RIKEN cDNA 0610006H10 gene (0610006H10Rik), mRNA [NM_NM_027857]		-1.00149
Mus musculus vomeronasal 1 receptor, C2 (V1rc2), mRNA [NM_053232]	NM_053232	1.27312
Mus musculus peptidylprolyl isomerase (cyclophilin)-like 2 (Ppil2), mRNA [NM_144954]		-1.08599
Mus musculus Ca ²⁺ -dependent activator protein for secretion (Cadps), mRNA [NM_012061]		-1.00429
Solute carrier family 14 (urea transporter), member 1	BC058594	1.03051
Mus musculus protein phosphatase 2, regulatory subunit B (B56), delta isoform	NM_009358	-1.07244
Mus musculus ADP-ribosylation factor-like 10A (Arl10a), mRNA [NM_019968]	NM_019968	1.25188
Polymerase (RNA) III (DNA directed) polypeptide F	AK029286	-1.16069
Mus musculus RIKEN cDNA 1200007B05 gene (1200007B05Rik), mRNA [NM_NM_026165]		-1.44422
Mus musculus olfactory receptor 1101 (Olfr1101), mRNA [NM_146591]	NM_146591	1.14363
Mus musculus RIKEN cDNA 2010300G19 gene (2010300G19Rik), mRNA [NM_NM_028097]		-1.44274
Alanyl-tRNA synthetase	AK083517	1.09824
Mus musculus SRY-box containing gene 17 (Sox17), mRNA [NM_011441]	NM_011441	1.1739
Mus musculus vomeronasal 1 receptor, I5 (V1ri5), mRNA [NM_134222]	NM_134222	-1.04205
Gooseoid-like	AK016252	-1.01584
Mus musculus pre B-cell leukemia transcription factor 2 (Pbx2), mRNA [NM_017463]		-1.01596
Mus musculus Niemann Pick type C1 (Npc1), mRNA [NM_008720]	NM_008720	1.09592
Mus musculus cDNA sequence BC021513 (BC021513), mRNA [NM_144894]	NM_144894	-1.0504
Mus musculus zinc finger protein 261 (Zfp261), mRNA [NM_019831]	NM_019831	-1.05986
Mus musculus RIKEN cDNA 5430400N05 gene (5430400N05Rik), mRNA [NM_NM_175433]		-1.07017
Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched	AK012991	1.7161
Mus musculus aldehyde dehydrogenase family 3, subfamily A2 (Aldh3a2), mRNA [NM_007437]		-1.61248
Antigen identified by monoclonal antibody Ki 67	X82786	-1.05804
RIKEN cDNA D730045B01 gene	AK021342	-1.02819

Mus musculus solute carrier family 14 (urea transporter), member 1 (Slc14a1), r	NM_028122	-1.02359
RIKEN cDNA B930019K04 gene	BC011230	1.09993
Mus musculus olfactory receptor 27 (Olfr27), mRNA [NM_146829]	NM_146829	1.0862
RIKEN cDNA 4933424F23 gene	AK016891	1.00066
Mus musculus calcium/calmodulin-dependent protein kinase kinase 2, beta (Car	NM_145358	-1.05601
Unknown		1.11132
GLYCOPHORIN. [Source:SWISSPROT;Acc:P14220] [ENSMUST00000063359]		1.00881
CDNA sequence BC005537	BC005537	-1.11711
Mus musculus olfactory receptor 862 (Olfr862), mRNA [NM_146562]	NM_146562	1.06733
Mus musculus mitochondrial ribosomal protein S12 (Mrps12), mRNA [NM_0118	NM_011885	-1.28667
Mus musculus calcium binding protein 1 (Cabp1), mRNA [NM_013879]	NM_013879	1.02157
Mus musculus RIKEN cDNA 2810021O14 gene (2810021O14Rik), mRNA [NM_	NM_025480	-1.39256
Mus musculus hemoglobin Y, beta-like embryonic chain (Hbb-y), mRNA [NM_0	NM_008221	-1.39881
Mus musculus cysteine-rich hydrophobic domain 2 (Chic2), mRNA [NM_028850	NM_028850	-1.67765
Unknown		1.04779
Mus musculus RIKEN cDNA 5730593F17 gene (5730593F17Rik), mRNA [NM_	NM_172543	1.11365
CDNA sequence BC023055	AK035162	1.11491
Mus musculus chloride channel calcium activated 3 (Clca3), mRNA [NM_01747	NM_017474	1.14215
Mus musculus olfactory receptor 15 (Olfr15), mRNA [NM_008762]	NM_008762	1.00978
Microsomal glutathione S-transferase 3	AK008211	-1.04633
Mus musculus potassium voltage-gated channel, Shal-related family, member 3	NM_019931	1.045
Mus musculus deiodinase, iodothyronine, type II (Dio2), mRNA [NM_010050]	NM_010050	-1.02884
Mus musculus sulfotransferase family 1D, member 1 (Sult1d1), mRNA [NM_01	NM_016771	-1.19892
Mus musculus zinc finger protein 365 (Zfp365), mRNA [NM_178679]	NM_178679	1.10067
Mus musculus RIKEN cDNA 3300001K11 gene (3300001K11Rik), mRNA [XM_	XM_156349	1.01487
Mus musculus claudin 9 (Cldn9), mRNA [NM_020293]	NM_020293	1.06164
Mus musculus annexin A13 (Anxa13), mRNA [NM_027211]	NM_027211	-1.10659
Mus musculus solute carrier family 8 (sodium/calcium exchanger), member 3 (S	NM_080440	1.01775
Glial cells missing homolog 1 (Drosophila)	NM_008103	-1.0146
Mus musculus EF hand domain containing 1 (Efhd1), mRNA [NM_028889]	NM_028889	1.05327
Autophagy 10-like (S. cerevisiae)	AK017355	-1.3879
Mus musculus 9.5 days embryo parthenogenote cDNA, RIKEN full-length enrich	AK045005	1.03143
Mus musculus phosphofructokinase, platelet (Pfkp), mRNA [NM_019703]	NM_019703	-1.02221
Mus musculus RIKEN cDNA 5730467H21 gene (5730467H21Rik), mRNA [NM_	NM_175270	-1.01027
Mus musculus cytoplasmic FMR1 interacting protein 1 (Cyfip1), mRNA [NM_01	NM_011370	-1.36205
Mus musculus plakophilin 3 (Pkp3), mRNA [NM_019762]	NM_019762	1.00283
Mus musculus Fas death domain-associated protein (Daxx), mRNA [NM_00782	NM_007829	-1.00611
RIKEN cDNA 2610024B07 gene	BC049153	-1.18378
Mus musculus WD repeat domain 3 (Wdr3), mRNA [NM_175552]	NM_175552	-1.25991
Mus musculus NADH dehydrogenase (ubiquinone) 1 beta subcomplex 8 (Ndufb	NM_026061	-1.08664
Mus musculus membrane-spanning 4-domains, subfamily A, member 4B (Ms4a	NM_021718	-1.2249
Mus musculus RIKEN cDNA 1810031K02 gene (1810031K02Rik), mRNA [NM_	NM_133716	1.10904
CDNA sequence BC024502	NM_173393	1.09565
Mus musculus expressed sequence AI429612 (AI429612), mRNA [NM_207217	NM_207217	-1.03802
2-cell-stage, variable group, member 1	NM_018756	1.00506
Protein phosphatase 1, regulatory (inhibitor) subunit 12B	AK035023	1
Mus musculus glutamate receptor, ionotropic, NMDA3B (Grin3b), mRNA [NM_1	NM_130455	-1.44821
Mus musculus G protein-coupled receptor 66 (Gpr66), mRNA [NM_010341]	NM_010341	-1.02119
RIKEN cDNA 1200009O22 gene	AK051421	-1.15683
Mus musculus RIKEN cDNA 2410004P03 gene (2410004P03Rik), mRNA [XM_	XM_126830	1.18793
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:	AK029592	1.03228
Cytochrome b-561 domain containing 1	BC060107	-1.22084

Mus musculus coatomer protein complex, subunit beta 1 (Copb1), mRNA [NM_(NM_033370		-1.19831
RIKEN cDNA 5830472F04 gene	AK018050	1.01001
Mus musculus RIKEN cDNA D330014H01 gene (D330014H01Rik), mRNA [NM_NM_177617		-1.15813
Mus musculus RIKEN cDNA 0610025L06 gene (0610025L06Rik), mRNA [NM_NM_172397		1.30233
Mus musculus heat shock 27kDa protein 8 (Hspb8), mRNA [NM_030704]	NM_030704	1.03358
hypothetical LOC98434	AK035414	-1.1555
RIKEN cDNA 2210408F21 gene	BC021953	1.00331
RIKEN cDNA A730081D07 gene	AK043285	1.16872
Mus musculus RNA polymerase II associated protein 1 (Rpap1), mRNA [NM_17NM_177294		1.03725
GTPase, IMAP family member 9	NM_174960	-1.11244
Mus musculus RIKEN cDNA 2700085M18 gene (2700085M18Rik), mRNA [NM_NM_030198		-1.0362
Mus musculus death effector domain-containing (Dedd), mRNA [NM_011615]	NM_011615	-1.00727
Mus musculus expressed sequence C79267 (C79267), mRNA [NM_183148]	NM_183148	-1.08722
Transmembrane emp24 protein transport domain containing 6	NM_025458	1.00288
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK016486		1.06311
Mus musculus cDNA sequence AF119384 (AF119384), mRNA [NM_130883]	NM_130883	1.12503
Mus musculus RIKEN cDNA F630044M05 gene (F630044M05Rik), mRNA [NM_NM_199013		1.0367
Mus musculus gap junction membrane channel protein alpha 10 (Gja10), mRNA NM_010289		1.0896
Mus musculus RNA-binding region (RNP1, RRM) containing 2 (Rnpc2), mRNA [NM_133242		-1.46858
Mus musculus secreted frizzled-related sequence protein 1 (Sfrp1), mRNA [NM_NM_013834		1.07416
C-type lectin domain family 4, member a3	NM_153197	-1.35948
Mus musculus DEAQ RNA-dependent ATPase (Dqx1), mRNA [NM_033606]	NM_033606	-1.0458
Mus musculus adult male colon cDNA, RIKEN full-length enriched library, clone: AK018511		1.15256
Presenilin enhancer 2 homolog (C. elegans)	NM_025498	-1.01343
Mus musculus calcium/calmodulin-dependent serine protein kinase (Cask), mRNA NM_009806		1.08013
Mus musculus DNA segment, Chr 8, ERATO Doi 633, expressed (D8Erttd633e), NM_133953		1.10976
Mus musculus RIKEN cDNA B230114P05 gene (B230114P05Rik), mRNA [NM_NM_172444		-1.07171
Mus musculus small proline rich-like 7 (Sprl7), mRNA [NM_027137]	NM_027137	-1.07159
Mus musculus adipose differentiation related protein (Adfp), mRNA [NM_007406]	NM_007408	-1.11614
Mus musculus cyclin L1 (Ccnl1), mRNA [NM_019937]	NM_019937	-1.06427
Mus musculus germ cell-less homolog (Drosophila) (Gcl), mRNA [NM_011818]	NM_011818	-1.43115
Mus musculus stannin (Snn), mRNA [NM_009223]	NM_009223	-1.0737
Mus musculus RIKEN cDNA 6720477E09 gene (6720477E09Rik), mRNA [NM_NM_178660		-1.20926
Solute carrier family 9 (sodium/hydrogen exchanger), member 2	AK077026	-1.08599
Mus musculus tetratricopeptide repeat domain 11 (Ttc11), mRNA [NM_025562]	NM_025562	-1.1029
Mus musculus zinc finger, DHHC domain containing 5 (Zdhhc5), mRNA [NM_14NM_144887		1.0771
Mus musculus RIKEN cDNA 2700087I09 gene (2700087I09Rik), mRNA [NM_198161]		-1.31688
Mus musculus lymphocyte antigen 6 complex, locus D (Ly6d), mRNA [NM_0107NM_010742		-1.05708
Mus musculus septin 2 (Sept2), mRNA [NM_010891]	NM_010891	-1.2553
Unknown		-1.09832
Mus musculus RIKEN cDNA 2310016M24 gene (2310016M24Rik), mRNA [NM_NM_183256		-1.25434
Mus musculus olfactory receptor 808 (Olfr808), mRNA [NM_146928]	NM_146928	1.05138
Mus musculus RIKEN cDNA 1500006O09 gene (1500006O09Rik), mRNA [NM_NM_025435		-1.40298
Mus musculus CD5 antigen (Cd5), mRNA [NM_007650]	NM_007650	-1.03011
Unknown		-1.03168
Mus musculus Nik related kinase (Nrk), mRNA [NM_013724]	NM_013724	1.03024
Component of oligomeric golgi complex 3	AK047722	1
Mus musculus olfactory receptor 1457 (Olfr1457), mRNA [NM_146575]	NM_146575	1.03135
OLFACTORY RECEPTOR MOR6-1. [Source:RefSeq;Acc:NM_147090] [ENSMUST00000607		1.32867
Mus musculus ribonuclease P 14kDa subunit (human) (Rpp14), mRNA [NM_025938]	NM_025938	-1.22698
Mus musculus ring finger protein 141 (Rnf141), mRNA [NM_025999]	NM_025999	-1.1457
Mus musculus PQ loop repeat containing 2 (Pqlc2), mRNA [NM_145384]	NM_145384	1.04634

Mus musculus RIKEN cDNA 2810439M11 gene (2810439M11Rik), mRNA [NM_	NM_183091	-1.0035
Mus musculus RIKEN cDNA 6030413G23 gene (6030413G23Rik), mRNA [NM_	NM_178664	-1.03627
Mus musculus RIKEN cDNA 2310033P09 gene (2310033P09Rik), mRNA [NM_	NM_024210	-1.01863
Mus musculus interferon regulatory factor 1 (Irf1), mRNA [NM_008390]	NM_008390	-1.24839
Mus musculus a disintegrin and metalloproteinase domain 15 (metargidin) (Ada)	NM_009614	-1.0271
RIKEN cDNA 1700007B14 gene	AK005693	1.03138
Mus musculus natriuretic peptide receptor 1 (Npr1), mRNA [NM_008727]	NM_008727	1.00615
Mus musculus fibrous sheath-interacting protein 1 (Fsp1), mRNA [NM_027759]	NM_027759	-1.09907
Mus musculus 12 days embryo eyeball cDNA, RIKEN full-length enriched library	AK051825	1.03549
DNA segment, Chr 11, ERATO Doi 333, expressed	NM_026542	1.31465
Hermansky-Pudlak syndrome 4 homolog (human)	AK030210	1.07227
Mus musculus RIKEN cDNA 5730596K20 gene (5730596K20Rik), mRNA [NM_	NM_146091	-1.17679
Mus musculus methyl-CpG binding domain protein 3-like 1 (Mbd3l1), mRNA [NM_	NM_028557	1.03714
Mus musculus vomeronasal 1 receptor, H1 (V1rh1), mRNA [NM_134211]	NM_134211	1.09258
Mus musculus defensin beta 19 (Defb19), mRNA [NM_145157]	NM_145157	-1.01472
Mus musculus open reading frame 9 (ORF9), mRNA [NM_020622]	NM_020622	1.0111
Carnitine deficiency-associated gene expressed in ventricle 3	NM_175565	-1.03847
Ras-related GTP binding D	NM_027491	1.06284
hypothetical protein LOC328277	AK048069	1.0513
Mus musculus RIKEN cDNA 2300002G24 gene (2300002G24Rik), mRNA [NM_	NM_028798	1.00359
Mus musculus COMM domain containing 10 (Commd10), mRNA [NM_178377]	NM_178377	-1.18141
Mus musculus DNA segment, Chr X, Immunex 47, expressed (DXImx47e), mRNA	NM_207670	1.02037
Mus musculus MOB1, Mps One Binder kinase activator-like 2C (yeast) (Mobk12)	NM_175308	-1.12679
Mus musculus RIKEN cDNA 2810012G03 gene (2810012G03Rik), mRNA [NM_	NM_175104	-1.10735
hypothetical protein 6030439E18	AK031485	1.08193
Mus musculus tripartite motif protein 24 (Trim24), mRNA [NM_145076]	NM_145076	-1.2774
Mus musculus ribosomal protein S2 (Rps2), mRNA [NM_008503]	NM_008503	-1.00577
Mus musculus napsin A aspartic peptidase (Napsa), mRNA [NM_008437]	NM_008437	1.28289
Mus musculus chloride channel 6 (Clcn6), mRNA [NM_011929]	NM_011929	-1.0201
Mus musculus RIKEN cDNA 1110038F14 gene (1110038F14Rik), mRNA [NM_	NM_054099	-1.22319
RIKEN cDNA 1500009L16 gene	AK012407	-1.13777
Mus musculus RIKEN cDNA 6030440P17 gene (6030440P17Rik), mRNA [NM_	NM_172862	-1.02926
hypothetical protein E330017N17	NM_177571	1.04586
Mus musculus non-catalytic region of tyrosine kinase adaptor protein 1 (Nck1), r	NM_010878	-1.41811
LSM6 homolog, U6 small nuclear RNA associated (S. cerevisiae)	BC030427	-1.52711
Mus musculus cDNA sequence BC020025 (BC020025), mRNA [NM_146030]	NM_146030	-1.04439
Mus musculus vomeronasal 1 receptor, E8 (V1re8), mRNA [NM_134197]	NM_134197	1.0588
Mus musculus chitinase 3-like 3 (Chi3l3), mRNA [NM_009892]	NM_009892	-1.19334
Mus musculus olfactory receptor 955 (Olfr955), mRNA [NM_207141]	NM_207141	-1.01933
Mus musculus RIKEN cDNA C430004E15 gene (C430004E15Rik), mRNA [NM_	NM_175286	-1.1594
Golgi transport 1 homolog B (S. cerevisiae)	AK032678	-1.14398
RIKEN cDNA 2610510B01 gene	AK002808	1.00074
Mus musculus RIKEN cDNA 4932411L21 gene (4932411L21Rik), mRNA [NM_	(NM_00100198)	-1.04306
Mus musculus RIKEN cDNA 1500032M01 gene (1500032M01Rik), mRNA [NM_	NM_175383	-1.23427
CDNA sequence BC031575	BC031575	1.00612
Mus musculus male-specific lethal-3 homolog 1 (Drosophila) (Msl3l1), mRNA [NI	NM_010832	-1.37064
Mus musculus small nuclear RNA activating complex, polypeptide 1 (Snapc1), n	NM_178392	-1.53652
Mus musculus RIKEN cDNA 1810029B16 gene (1810029B16Rik), mRNA [NM_	NM_025465	-1.21728
Zinc finger and BTB domain containing 8 opposite strand	BC026442	1.05691
Mus musculus cDNA sequence BC048403 (BC048403), mRNA [NM_173022]	NM_173022	-1.20274
Mus musculus RIKEN cDNA 2200003E03 gene (2200003E03Rik), mRNA [NM_	NM_023186	-1.02127
FCH domain only 1	AK014382	-1.23938

Mus musculus CD3 antigen, delta polypeptide (Cd3d), mRNA [NM_013487]	NM_013487	-1.09164
Mus musculus RIKEN cDNA 4930588M11 gene (4930588M11Rik), mRNA [NM_153806]	NM_153806	-1.25333
RIKEN cDNA 1700126L10 gene	AK007294	-1.00806
Mus musculus FMS-like tyrosine kinase 1 (Flt1), mRNA [NM_010228]	NM_010228	-1.28475
Mus musculus transmembrane protease, serine 3 (Tmprss3), mRNA [NM_080727]	NM_080727	1.09334
Zinc finger, DHHC domain containing 24	NM_027476	1.07061
Mus musculus opsin 4 (melanopsin) (Opn4), mRNA [NM_013887]	NM_013887	-1.17005
Mus musculus murinoglobulin 1 (Mug1), mRNA [NM_008645]	NM_008645	1.24238
Mus musculus autophagy 12-like (S. cerevisiae) (Apg12l), mRNA [NM_026217]	NM_026217	-1.25339
Mus musculus surfactant associated protein C (Sftpc), mRNA [NM_011359]	NM_011359	
Mus musculus histocompatibility 2, class II, locus DMA (H2-DMA), mRNA [NM_010386]	NM_010386	-1.04292
Mus musculus NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1	NM_028177	-1.15056
Mus musculus metallothionein 2 (Mt2), mRNA [NM_008630]	NM_008630	-1.03285
RIKEN cDNA 4631416L12 gene	AK087060	1.05071
Mus musculus RIKEN cDNA 3830408P04 gene (3830408P04Rik), mRNA [NM_023647]	NM_023647	-1.3034
Mus musculus fatty acid desaturase 3 (Fads3), mRNA [NM_021890]	NM_021890	-1.31827
Mus musculus solute carrier family 25 (mitochondrial carrier oxoglutarate carrier)	NM_024211	-1.35757
Mus musculus T-cell leukemia/lymphoma 1B, 3 (Tcl1b3), mRNA [NM_013772]	NM_013772	1.05456
Mus musculus olfactory receptor 355 (Olfr355), mRNA [NM_146625]	NM_146625	1.13125
Mus musculus lanosterol synthase (Lss), mRNA [NM_146006]	NM_146006	1.14192
Mus musculus olfactory receptor 827 (Olfr827), mRNA [NM_146300]	NM_146300	1.10972
Mus musculus glypican 4 (Gpc4), mRNA [NM_008150]	NM_008150	-1.06042
Empty spiracles homolog 1 (Drosophila)	X68881	1.06317
Mus musculus a disintegrin and metalloproteinase domain 19 (meltrin beta) (Adi)	NM_009616	1.08186
Mus musculus RIKEN cDNA 1110038F21 gene (1110038F21Rik), mRNA [NM_025416]	NM_025416	1.05286
Mus musculus Williams Beuren syndrome chromosome region 22 (Wbscr22), mRNA [NM_025375]	NM_025375	1.21227
Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 3 (Arabidopsis)	NM_011991	-1.51133
Mus musculus membrane-spanning 4-domains, subfamily A, member 10 (Ms4a)	NM_023529	1.05449
Mus musculus cDNA sequence BC004853 (BC004853), mRNA [NM_146117]	NM_146117	-1.04881
Mus musculus expressed sequence AU040377 (AU040377), mRNA [NM_178748]	NM_178748	-1.08577
Mus musculus ribonuclease P 25kDa subunit (human) (Rpp25), mRNA [NM_13133982]	NM_13133982	1.03826
Mus musculus myosin, light polypeptide 7, regulatory (Myl7), mRNA [NM_022879]	NM_022879	-1.16655
Mus musculus vomeronasal 1 receptor, H13 (V1rh13), mRNA [NM_134238]	NM_134238	1
Mus musculus component of oligomeric golgi complex 8 (Cog8), mRNA [NM_13139229]	NM_13139229	1.13087
Mus musculus potassium voltage gated channel, Shaw-related subfamily, member 10	NM_145922	1.03725
Mus musculus clathrin, light polypeptide (Lca) (Clta), mRNA [NM_016760]	NM_016760	-1.03844
Mus musculus core binding factor beta (Cbfb), mRNA [NM_022309]	NM_022309	-1.1733
Mus musculus RIKEN cDNA 6330407D12 gene (6330407D12Rik), mRNA [NM_175098]	NM_175098	-1.23433
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK016596		1
Mus musculus RIKEN cDNA 2010004I09 gene (2010004I09Rik), mRNA [NM_199008]	NM_199008	-1.45343
Mus musculus RIKEN cDNA 1700006J14 gene (1700006J14Rik), mRNA [NM_177313]	NM_177313	1.161
CD47 antigen (Rh-related antigen, integrin-associated signal transducer)	AK050387	-1.18644
Mus musculus sulfotransferase family, cytosolic, 2B, member 1 (Sult2b1), mRNA [NM_017465]	NM_017465	1.27449
Mus musculus RIKEN cDNA 4930506M07 gene (4930506M07Rik), mRNA [NM_175172]	NM_175172	-1.17715
Mus musculus upstream binding transcription factor, RNA polymerase I (Ubf1), mRNA [NM_011551]	NM_011551	1.15218
Mus musculus Trk-fused gene (Tfg), mRNA [NM_019678]	NM_019678	-1.27664
Mus musculus origin recognition complex, subunit 6-like (S. cerevisiae) (Orc6l), mRNA [NM_019716]	NM_019716	-1.29573
Mus musculus dolichyl-phosphate (UDP-N-acetylglucosamine) acetylglucosaminyl transferase 1	NM_007875	-1.1968
Mus musculus trophoblast specific protein beta (Tpppb), mRNA [NM_026429]	NM_026429	1.01246
AY129963 GPI-gamma 4; GPIgamma4 {Mus musculus}, partial (72%) [TC976091]		-1.31583
Mus musculus SEC14-like 4 (S. cerevisiae) (Sec14l4), mRNA [NM_146013]	NM_146013	-1.16293
Unknown		1.07227

Mus musculus RIKEN cDNA 2700083B06 gene (2700083B06Rik), mRNA [NM_	NM_026531	1.05062
Mus musculus ELL associated factor 1 (Eaf1), mRNA [NM_028932]	NM_028932	-1.50664
Mus musculus cytochrome b-245, alpha polypeptide (Cyba), mRNA [NM_00780	NM_007806	-1.05871
RIKEN cDNA 1810062O18 gene	AK007938	-1.07238
Mus musculus adducin 1 (alpha) (Add1), mRNA [NM_013457]	NM_013457	1.20607
RIKEN cDNA 9030611K07 gene	NM_00100149	1.00772
Mus musculus mercaptopyruvate sulfurtransferase (Mpst), mRNA [NM_138670]	NM_138670	-1.33827
Ras-GTPase-activating protein SH3-domain binding protein	AK083741	1.03022
Dynein, cytoplasmic, heavy chain 2	Z83809	1.02017
Fem-1 homolog c (C.elegans)	AK031720	-1.04687
Polymerase (RNA) III (DNA directed) polypeptide A	AK039440	1.07231
Mus musculus dentatorubral pallidoluysian atrophy (Drpla), mRNA [NM_007881	NM_007881	-1.10258
Mus musculus natural killer tumor recognition sequence (Nktr), mRNA [NM_010	NM_010918	1.04224
Mus musculus interleukin 13 (Il13), mRNA [NM_008355]	NM_008355	1.09818
Mus musculus 15 days embryo male testis cDNA, RIKEN full-length enriched lib	AK033234	1.16271
Mus musculus olfactory receptor 1228 (Olfr1228), mRNA [NM_146971]	NM_146971	1.00864
Mus musculus protein kinase C and casein kinase substrate in neurons 3 (Pacs	NM_030880	-1.13834
Mus musculus tumor necrosis factor (ligand) superfamily, member 7 (Tnfsf7), m	NM_011617	-1.33878
Mus musculus ASF1 anti-silencing function 1 homolog A (S. cerevisiae) (Asf1a),	NM_025541	-1.23175
RIKEN cDNA 2310036D22 gene	AK078219	-1.4563
Mus musculus RIKEN cDNA 3110031B13 gene (3110031B13Rik), mRNA [NM_	NM_026075	-1.39086
Mus musculus RIKEN cDNA 2810028N01 gene (2810028N01Rik), mRNA [NM_	NM_028315	-1.34924
Mus musculus RIKEN cDNA 4921536I21 gene (4921536I21Rik), mRNA [NM_0:	NM_027617	-1.24221
Mus musculus histocompatibility 2, O region alpha locus (H2-Oa), mRNA [NM_	NM_008206	1.02382
Mus musculus vomeronasal 1 receptor, C7 (V1rc7), mRNA [NM_053237]	NM_053237	1.03042
Coiled-coil domain containing 12	NM_028312	1.03188
Catenin beta interacting protein 1	NM_023465	-1.13946
DNA segment, Chr 8, Brigham & Women's Genetics 1414 expressed	NM_025781	1.06469
Mus musculus RIKEN cDNA 1500011H22 gene (1500011H22Rik), mRNA [NM_	NM_026883	-1.1868
Glutamate receptor, ionotropic, kainate 1	X66118	1.08457
Mus musculus RIKEN cDNA 2810442O16 gene (2810442O16Rik), mRNA [NM_	NM_024196	1.4294
Mus musculus paired box gene 3 (Pax3), mRNA [NM_008781]	NM_008781	1.05551
RIKEN cDNA 3010027A04 gene	AK019393	1.22968
Mus musculus olfactory receptor 1240 (Olfr1240), mRNA [NM_146808]	NM_146808	-1.00618
RIKEN cDNA 4932425I24 gene	AK077038	-1.09194
Mus musculus RIKEN cDNA E130112L23 gene (E130112L23Rik), mRNA [NM_	NM_198249	-1.00695
Mus musculus coronin, actin binding protein 1A (Coro1a), mRNA [NM_009898]	NM_009898	1.04966
Mus musculus ribosomal protein L7a (Rpl7a), mRNA [NM_013721]	NM_013721	-1.03302
Ubiquitin-activating enzyme E1, Chr Y 1	AK007945	-1.05203
Mus musculus potassium voltage-gated channel, subfamily Q, member 1 (Kcnq	NM_008434	1.05407
Mus musculus RIKEN cDNA 4833420E20 gene (4833420E20Rik), mRNA [XM_	XM_354681	1.15836
Testis specific gene A8	AB032764	-1.07633
RIKEN cDNA 8030443D09 gene	AK078754	1.04018
Mus musculus surfactant associated protein D (Sftpd), mRNA [NM_009160]	NM_009160	-1.22418
Mus musculus caspase 2 (Casp2), mRNA [NM_007610]	NM_007610	-1.34995
Mus musculus CAP, adenylate cyclase-associated protein, 2 (yeast) (Cap2), mF	NM_026056	1.19871
Mus musculus RIKEN cDNA 6330503C03 gene (6330503C03Rik), mRNA [NM_	NM_029528	1.14389
Mus musculus crystallin, gamma C (Crygc), mRNA [NM_007775]	NM_007775	1.06773
Mus musculus RIKEN cDNA 1200011I03 gene (1200011I03Rik), mRNA [XM_1	XM_193868	1.08951
Mus musculus UDP-Gal:betaGalNAc beta 1,3-galactosyltransferase, polypeptid	NM_019420	1.04273
Mus musculus olfactory receptor 765 (Olfr765), mRNA [NM_146318]	NM_146318	1.05498
Membrane-associated ring finger (C3HC4) 8	NM_027920	-1.26011

Mus musculus toll-like receptor 5 (Tlr5), mRNA [NM_016928]	NM_016928	1.27238
Mus musculus heterogeneous nuclear ribonucleoprotein A2/B1 (Hnrpa2b1), trar	NM_016806	-1.62368
Mus musculus histone deacetylase 6 (Hdac6), mRNA [NM_010413]	NM_010413	1.11051
Mus musculus diacylglycerol O-acyltransferase 1 (Dgat1), mRNA [NM_010046]	NM_010046	1.02492
C-type lectin domain family 11, member a	NM_009131	1.0357
Mus musculus ubiquitin specific protease 27, X chromosome (Usp27x), mRNA [	NM_019461	-1.09354
Mus musculus tumor necrosis factor alpha induced protein 6 (Tnfaip6), mRNA [I	NM_009398	-1.04069
Mus musculus sorting nexin 9 (Snx9), mRNA [NM_025664]	NM_025664	-1.0678
Mus musculus alcohol dehydrogenase 5 (class III), chi polypeptide (Adh5), mRN	NM_007410	-1.74292
Mus musculus RIKEN cDNA 4921529O18 gene (4921529O18Rik), mRNA [NM_	NM_030070	1.08405
Mus musculus origin recognition complex, subunit 3-like (S. cerevisiae) (Orc3l),	NM_015824	-1.52545
Mus musculus solute carrier family 6 (neurotransmitter transporter, dopamine), r	NM_010020	1.03428
Mus musculus olfactory receptor 374 (Olfr374), mRNA [NM_146338]	NM_146338	1.06372
Mus musculus v-raf-1 leukemia viral oncogene 1 (Raf1), mRNA [NM_029780]	NM_029780	-1.19812
Mus musculus RIKEN cDNA C130022K22 gene (C130022K22Rik), mRNA [NM_	NM_172730	-1.12879
Melanoma antigen, family A, 4	NM_020280	1.01055
Far upstream element (FUSE) binding protein 3	AK039504	-1.06851
Hypothetical protein A630053O10	AK016846	-1.0346
DNA segment, Chr 5, Wayne State University 152, expressed	NM_030886	1.08179
RIKEN cDNA 4921509B22 gene	AK014850	1.01004
Mus musculus desmoglein 1 beta (Dsg1b), mRNA [NM_181682]	NM_181682	-1.10199
Mus musculus early B-cell factor 1 (Ebf1), mRNA [NM_007897]	NM_007897	1.08358
Bromodomain containing 8	AK014475	1.03153
Mus musculus olfactory receptor 1270 (Olfr1270), mRNA [NM_146985]	NM_146985	1.05724
RIKEN cDNA 4931402H11 gene	AK016424	1.05641
Mus musculus sialoadhesin (Sn), mRNA [NM_011426]	NM_011426	1.00003
Mus musculus HLA-B associated transcript 8 (Bat8), transcript variant long, mR	NM_145830	-1.01437
Mus musculus hepatitis A virus cellular receptor 2 (Havcr2), mRNA [NM_13425	NM_134250	-1.24677
Mus musculus adiponutrin (Adpn), mRNA [NM_054088]	NM_054088	-1.10063
Mus musculus homeo box D9 (Hoxd9), mRNA [NM_013555]	NM_013555	1.05901
Mus musculus DnaJ (Hsp40) homolog, subfamily B, member 11 (Dnajb11), mR	NM_026400	-1.34515
Bicaudal C homolog 1 (Drosophila)	AK082289	-1.27304
Mus musculus phosphatidylinositol glycan, class Q (Pigq), mRNA [NM_011822]	NM_011822	1.052
Mus musculus chemokine (C-C motif) ligand 1 (Ccl1), mRNA [NM_011329]	NM_011329	1.11505
Mus musculus RIKEN cDNA 5330440H13 gene (5330440H13Rik), mRNA [XM_	XM_142154	-1.02324
Mus musculus Bartter syndrome, infantile, with sensorineural deafness (Barttin)	NM_080458	1.08141
Mus musculus RIKEN cDNA A630035I11 gene (A630035I11Rik), mRNA [NM_1	NM_175558	-1.01203
Mus musculus astrotactin 2 (Astn2), transcript variant 2, mRNA [NM_207109]	NM_207109	1.02394
Mus musculus transglutaminase 2, C polypeptide (Tgm2), mRNA [NM_009373]	NM_009373	1.42753
Mus musculus seryl-aminoacyl-tRNA synthetase 1 (Sars1), mRNA [NM_011319	NM_011319	-1.05186
PR domain containing 2, with ZNF domain	AK087820	1.07383
Mus musculus par-3 (partitioning defective 3) homolog (C. elegans) (Pard3), mF	NM_033620	1.04098
Mus musculus mahogunin, ring finger 1 (Mgrn1), mRNA [NM_029657]	NM_029657	-1.20107
Mus musculus RIKEN cDNA D930005D10 gene (D930005D10Rik), mRNA [NM_	NM_178702	1.0541
Mannosidase, alpha, class 1A, member 2	NM_010763	-1.48033
RIKEN cDNA 2210013O21 gene	AK008724	-1.10891
Mus musculus solute carrier family 6 (neurotransmitter transporter, GABA), men	NM_178703	1.05612
Mus musculus similar to WD repeat domain 9 isoform A; cAMP response eleme	XM_356350	-1.04553
602916129F1 NCI_CGAP_Lu29 Mus musculus cDNA clone IMAGE:5066599 5' BI151587	BI151587	1.04289
Mus musculus calpain 8 (Capn8), mRNA [NM_130890]	NM_130890	-1.24664
Mus musculus N-acetylneuraminic acid synthase (sialic acid synthase) (Nans), r	NM_053179	-1.06031
Transmembrane emp24 protein transport domain containing 9	NM_026211	-2.49385

Mus musculus transcription factor CP2-like 3 (Tcfcp2l3), mRNA [NM_026496]	NM_026496	-1.04905
RIKEN cDNA 4930511H11 gene	AK029994	-1.00553
Mus musculus RIKEN cDNA 1200006F02 gene (1200006F02Rik), mRNA [NM_027872]	NM_027872	-1.0643
Mus musculus Rab geranylgeranyl transferase, a subunit (Rabggta), mRNA [NM_019519]	NM_019519	1.03177
Mus musculus RIKEN cDNA D130064H19 gene (D130064H19Rik), mRNA [NM_0172593]	NM_0172593	-1.00711
Mus musculus RIKEN cDNA 6330548G22 gene (6330548G22Rik), mRNA [NM_029532]	NM_029532	-1.04704
Mus musculus Ca ²⁺ -dependent activator protein for secretion 2 (Cadps2), mRNA [NM_153163]	NM_153163	-1.31762
RIKEN cDNA C130039O16 gene	AK081554	-1.07397
THUMP domain containing 3	NM_008188	-1.18926
RIKEN cDNA B230216G23 gene	AK045625	1.04959
Mus musculus RIKEN cDNA 4933401B06 gene (4933401B06Rik), mRNA [XM_136018]	XM_136018	1.03657
Mus musculus fatty acid binding protein 5, epidermal (Fabp5), mRNA [NM_010634]	NM_010634	-1.23581
Expressed sequence AI414054	AI552499	1.08762
RIKEN cDNA 9530062K07 gene	AK020619	1.01215
Mus musculus cDNA sequence BC018472 (BC018472), mRNA [NM_146097]	NM_146097	-1.74833
Mus musculus pinin (Pnn), mRNA [NM_008891]	NM_008891	-1.08283
RIKEN cDNA 1700022F17 gene	AK006238	1.11401
hypothetical protein [2210404J11]		-1.1224
Mus musculus 13 days embryo male testis cDNA, RIKEN full-length enriched library, clone: AK031317	AK031317	1.05043
Mus musculus olfactory receptor 812 (Olfr812), mRNA [NM_146795]	NM_146795	1.02039
RIKEN cDNA 1700083M11 gene	AK006984	1.09447
RIKEN cDNA 4930408O17 gene	AK015114	1.05611
Mus musculus ligase IV, DNA, ATP-dependent (Lig4), mRNA [NM_176953]	NM_176953	1.16707
Mus musculus fibrillarin (Fbl), mRNA [NM_007991]	NM_007991	-1.13924
RIKEN cDNA 8430429K09 gene	AK018450	-1.45376
Mus musculus FSHD region gene 1 (Frg1), mRNA [NM_013522]	NM_013522	-1.24092
Mus musculus RIKEN cDNA 6430517J16 gene (6430517J16Rik), mRNA [NM_173013]	NM_173013	1.05448
C-type lectin domain family 7, member a	NM_020008	-1.2604
Mus musculus SEC14 and spectrin domains 1 (Sestd1), mRNA [NM_175465]	NM_175465	1.1304
Casein gamma	NM_007785	-1.02312
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK019847	AK019847	-1.02114
Mus musculus poly A binding protein, cytoplasmic 1 (Pabpc1), mRNA [NM_008774]	NM_008774	-1.07716
Mus musculus RIKEN cDNA 6530404N21 gene (6530404N21Rik), mRNA [NM_181587]	NM_181587	1.01279
Mus musculus elongation protein 4 homolog (S. cerevisiae) (Elp4), mRNA [NM_023876]	NM_023876	-1.13864
Mus musculus RIKEN cDNA 2510048O06 gene (2510048O06Rik), mRNA [NM_025624]	NM_025624	-1.13108
Unknown		1.08931
GLE1 RNA export mediator-like (yeast)	AK028183	1.16771
RIKEN cDNA 1700116B05 gene	AK018963	1.10147
Mus musculus reticulocalbin 3, EF-hand calcium binding domain (Rcn3), mRNA [NM_026555]	NM_026555	-1.08098
Tensin	BC037471	-1.01316
Mus musculus anaphase promoting complex subunit 7 (Anapc7), mRNA [NM_019805]	NM_019805	1.01131
Mus musculus holocarboxylase synthetase (biotin- [propionyl-Coenzyme A-carbonyltransferase] (Biotin- [propionyl-Coenzyme A-carbonyltransferase]), mRNA [NM_139145]	NM_139145	1.01408
BC014702 Guanine nucleotide binding protein, alpha (Mus musculus), complete [TC975823]	TC975823	1.16293
Kinesin family member 2B	AK030188	-1.35947
Mus musculus glutamate-cysteine ligase, catalytic subunit (Gclc), mRNA [NM_010295]	NM_010295	1.00361
Transmembrane protein 16D (eight membrane-spanning domains)	AK039728	1.0854
Mus musculus RIKEN cDNA 4933437K13 gene (4933437K13Rik), mRNA [NM_028964]	NM_028964	-1.00448
Mus musculus RIKEN cDNA 1810055E12 gene (1810055E12Rik), mRNA [NM_026437]	NM_026437	-1.20573
Mus musculus ARP6 actin-related protein 6 homolog (yeast) (Actr6), mRNA [NM_025914]	NM_025914	-1.23579
Solute carrier family 43, member 2	AK090207	1.12912
Mus musculus MAP/microtubule affinity-regulating kinase 3 (Mark3), mRNA [NM_021516]	NM_021516	-1.29113
Mus musculus 13 days embryo lung cDNA, RIKEN full-length enriched library, c AK052494	AK052494	1.104

Mus musculus complement component 3a receptor 1 (C3ar1), mRNA [NM_0097	NM_009779	1.0276
Mus musculus cDNA sequence BC031901 (BC031901), mRNA [NM_153568]	NM_153568	1.09093
Mus musculus expressed sequence AI415330 (AI415330), mRNA [NM_178114]	NM_178114	-1.05827
Transmembrane protease, serine 11d	NM_145561	1.00425
Mus musculus testis expressed gene 12 (Tex12), mRNA [NM_025687]	NM_025687	1.09532
Mus musculus RIKEN cDNA A330021E22 gene (A330021E22Rik), mRNA [NM_	NM_172447	-1.13892
Mus musculus cysteine and glycine-rich protein 2 (Csrp2), mRNA [NM_007792]	NM_007792	-1.28203
Mus musculus RIKEN cDNA 1700030B17 gene (1700030B17Rik), mRNA [NM_	NM_027407	1.12462
RIKEN cDNA 2900075B16 gene	AK019353	1.08017
down-regulated by Ctnnb1, a	NM_053090	-1.09276
Mus musculus serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiprot	NM_027997	1.00804
Mus musculus vomeronasal 1 receptor, B3 (V1rb3), mRNA [NM_053226]	NM_053226	1.01161
Mus musculus carbonyl reductase 3 (Cbr3), mRNA [NM_173047]	NM_173047	-1.14318
Mus musculus peroxiredoxin 4 (Prdx4), mRNA [NM_016764]	NM_016764	-1.16685
Mus musculus selectin, platelet (p-selectin) ligand (Selpl), mRNA [NM_009151]	NM_009151	1.12617
Mus musculus RIKEN cDNA 2410030K01 gene (2410030K01Rik), mRNA [NM_	NM_026282	1.05739
Mus musculus crystallin, lamda 1 (Cryl1), mRNA [NM_030004]	NM_030004	1.01663
Mus musculus ras homolog gene family, member C (Rhoc), mRNA [NM_007484]	NM_007484	-1.02302
Expressed sequence AI851523	AI851523	-1.26453
Mus musculus orofacial cleft 1 candidate 1 (Ofcc1), mRNA [NM_172143]	NM_172143	1.00512
Mus musculus RIKEN cDNA D830007E07 gene (D830007E07Rik), mRNA [NM_	NM_173027	1.03165
Mus musculus amyloid beta precursor protein binding protein 1 (Appbp1), mRN	NM_144931	-1.67317
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 1	X98848	1.19711
Mus musculus myeloid/lymphoid or mixed lineage-leukemia translocation to 7 h	NM_018789	1.06584
Mus musculus ras homolog gene family, member T2 (Rhot2), mRNA [NM_1459	NM_145999	-1.12669
RIKEN cDNA 4933411K16 gene	BC049703	1.05876
thymocyte protein thy28	NM_144543	-1.2474
Mus musculus G protein-coupled receptor 124 (Gpr124), mRNA [NM_054044]	NM_054044	-1.43535
Zinc finger protein 82	AK129467	-1.05109
Mus musculus laminin, alpha 1 (Lama1), mRNA [NM_008480]	NM_008480	-1.24187
Mus musculus ganglioside-induced differentiation-associated-protein 10 (Gdap1	NM_010268	-1.02923
DNA segment, Chr 8, ERATO Doi 594, expressed	NM_133791	-1.13782
RIKEN cDNA 2900074C18 gene	AK013779	-1.09406
RIKEN cDNA 5730590G19 gene	AK051639	1.11531
Mus musculus programmed cell death 10 (Pdcd10), mRNA [NM_019745]	NM_019745	-1.57698
RIKEN cDNA 1110031B06 gene	AK049330	-1.09897
Downstream of Stk11	AK035824	1.15373
Mus musculus epidermal growth factor receptor pathway substrate 8 (Eps8), mF	NM_007945	-1.20814
Mus musculus RIKEN cDNA 1110032A03 gene (1110032A03Rik), mRNA [NM_	NM_023483	-1.05966
RIKEN cDNA 1700020I14 gene	AK029148	-1.15467
NMD3 homolog (S. cerevisiae)	NM_133787	-1.27397
Mus musculus dermatopontin (Dpt), mRNA [NM_019759]	NM_019759	-1.76644
Mus musculus RIKEN cDNA 2400010G15 gene (2400010G15Rik), mRNA [NM_	NM_029624	-1.10402
Mus musculus grancalcin (Gca), mRNA [NM_145523]	NM_145523	-1.69511
Mus musculus eukaryotic elongation factor-2 kinase (Eef2k), mRNA [NM_00790	NM_007908	1.08876
Mus musculus G protein pathway suppressor 1 (Gps1), mRNA [NM_145370]	NM_145370	1.10844
RIKEN cDNA 1700007K09 gene	AK005730	-1.15224
RIKEN cDNA 2610005L07 gene	AK012880	1.0668
Mus musculus carbohydrate (chondroitin 6/keratan) sulfotransferase 3 (Chst3), i	NM_016803	1.18219
Mus musculus glutathione S-transferase, pi 1 (Gstp1), mRNA [NM_013541]	NM_013541	-1.04175
Mus musculus olfactory receptor 449 (Olfr449), mRNA [NM_147064]	NM_147064	1.11948
Mus musculus methionine adenosyltransferase I, alpha (Mat1a), mRNA [NM_13	NM_133653	1.06811

Mus musculus F-box only protein 7 (Fbxo7), mRNA [NM_153195]	NM_153195	1.06557
Discs, large homolog-associated protein 4 (Drosophila)	BC058948	1.1474
Mus musculus dopamine receptor 3 (Drd3), mRNA [NM_007877]	NM_007877	-1.27884
Mus musculus RIKEN cDNA 1810008K16 gene (1810008K16Rik), mRNA [NM_026109]	NM_026109	-1.01253
Cytoskeleton associated protein 2	AK034534	-1.00651
Mus musculus RIKEN cDNA 1700010I14 gene (1700010I14Rik), mRNA [NM_025851]	NM_025851	1.08281
Mus musculus leprecan 1 (Lepre1), mRNA [NM_019782]	NM_019782	1.16178
Mus musculus cytochrome P450, family 2, subfamily d, polypeptide 9 (Cyp2d9), CDNA sequence BC033915	NM_010006 AK129257	1.2217 -1.25199
NP_065645.1 cDNA sequence U48620 [Mus musculus] [NP376624]		-1.00022
Mus musculus chemokine (C-X-C motif) ligand 9 (Cxcl9), mRNA [NM_008599]	NM_008599	1.04167
Mus musculus RIKEN cDNA 9530003J23 gene (9530003J23Rik), mRNA [NM_029906]	NM_029906	1.03504
Mus musculus chitinase 3-like 1 (Chi3l1), mRNA [NM_007695]	NM_007695	-1.0533
Mus musculus death-associated kinase 2 (Dapk2), mRNA [NM_010019]	NM_010019	-1.27588
BTB (POZ) domain containing 11	AK039038	1.00107
Mus musculus phospholipase A2, group IIC (Pla2g2c), mRNA [NM_008868]	NM_008868	1.06406
Mus musculus RIKEN cDNA 1110032E23 gene (1110032E23Rik), mRNA [NM_133187]	NM_133187	-1.26153
Unknown		1.02518
Mus musculus RIKEN cDNA 6230400O18 gene (6230400O18Rik), mRNA [NM_144519]	NM_144519	-1.38943
Mus musculus deaminase domain containing 1 (Deadc1), mRNA [NM_025748]	NM_025748	-1.23684
Mus musculus protocadherin beta 20 (Pcdhb20), mRNA [NM_053145]	NM_053145	-1.14866
AKT1 substrate 1 (proline-rich)	NM_026270	1.0226
Mus musculus mel transforming oncogene-like 1 (Mell1), mRNA [NM_013783]	NM_013783	1.16877
G protein-coupled receptor 48	AK044357	-1.09235
Mus musculus ARP3 actin-related protein 3 homolog (yeast) (Actr3), mRNA [NM_023735]	NM_023735	-1.56279
Mus musculus transmembrane 4 superfamily member 4 (Tm4sf4), mRNA [NM_145539]	NM_145539	1.07639
Sirtuin 5 (silent mating type information regulation 2 homolog) 5 (S. cerevisiae)	NM_178848	-1.0707
Integrin beta 1 binding protein 1	AK078798	-1.5854
Mus musculus ubiquitin specific protease 54 (Usp54), mRNA [NM_030180]	NM_030180	1.03157
Mus musculus molybdenum cofactor synthesis 2 (Mocs2), mRNA [NM_013826]	NM_013826	-1.49145
Mus musculus solute carrier family 6 (neurotransmitter transporter, glycine), member 1 RIKEN cDNA 2900084M01 gene	NM_008135 AK049593	-1.06507 1.06138
Unknown		-1.06448
Mus musculus interferon-induced protein with tetratricopeptide repeats 3 (Ifit3), mRNA [NM_010501]	NM_010501	-1.21672
Mus musculus RIKEN cDNA 2610528H13 gene (2610528H13Rik), mRNA [NM_145944]	NM_145944	-1.07075
Mus musculus 18-day embryo whole body cDNA, RIKEN full-length enriched library	AK003694	-1.06013
Mus musculus carnosine dipeptidase 1 (metallopeptidase M20 family) (Cndp1), mRNA [NM_177450]	NM_177450	1.05473
Hect (homologous to the E6-AP (UBE3A) carboxyl terminus) domain and RCC1	BC004027	-1.00789
Expressed sequence AU041480	AK003938	-1.07111
RIKEN cDNA B130050I23 gene	AK009699	1.01387
Mus musculus bone morphogenetic protein 8b (Bmp8b), mRNA [NM_007559]	NM_007559	-1.1896
Mus musculus complement component 1, q subcomponent, beta polypeptide (C1qbp), mRNA [NM_009777]	NM_009777	1.10849
Mus musculus expressed sequence AI316785 (AI316785), mRNA [NM_181399]	NM_181399	-1.41484
Mus musculus fem-1 homolog c (C.elegans) (Fem1c), mRNA [NM_173423]	NM_173423	-1.19931
Mus musculus netrin G2 (Ntng2), mRNA [NM_133500]	NM_133500	1.00301
Mus musculus GATA binding protein 6 (Gata6), mRNA [NM_010258]	NM_010258	-1.07603
Mus musculus homeo box B6 (Hoxb6), mRNA [NM_008269]	NM_008269	1.16329
Mus musculus trans-acting transcription factor 5 (Sp5), mRNA [NM_022435]	NM_022435	-1.1629
Mus musculus ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit	NM_025983	-1.15567
Mid-1-related chloride channel 1	NM_145543	1.01871
Protein tyrosine phosphatase, non-receptor type 3	AK052928	1.08739
Mus musculus capping protein (actin filament) muscle Z-line, alpha 2 (Capza2), mRNA [NM_007604]	NM_007604	-1.57991

Mus musculus procollagen, type XIX, alpha 1 (Col19a1), mRNA [NM_007733]	NM_007733	1.06036
Mus musculus transcription factor AP-4 (activating enhancer-binding protein 4) (NM_031182)	NM_031182	-1.22841
RIKEN cDNA 1700017B05 gene	AK029230	-1.00709
Mus musculus par-6 (partitioning defective 6,) homolog alpha (C. elegans) (Parc	NM_019695	1.08998
Mus musculus butyrylcholinesterase (Bche), mRNA [NM_009738]	NM_009738	1
Per-hexamer repeat gene 1	NM_011080	1.33658
Mus musculus CUG triplet repeat,RNA binding protein 2 (Cugbp2), mRNA [NM_	NM_010160	-1.6823
Mus musculus double C2, beta (Doc2b), mRNA [NM_007873]	NM_007873	1.03172
Mus musculus glutathione S-transferase, alpha 1 (Ya) (Gsta1), mRNA [NM_008	NM_008181	-1.39525
Suppressor of hairy wing homolog 4 (Drosophila)	BC027163	-1.29384
Mus musculus ring finger protein 11 (Rnf11), mRNA [NM_013876]	NM_013876	-1.49047
hypothetical protein 4933409I22	NM_172914	-1.35038
Mus musculus olfactory receptor 656 (Olfr656), mRNA [NM_147075]	NM_147075	1.13381
Mus musculus YY1 transcription factor (Yy1), mRNA [NM_009537]	NM_009537	-1.30842
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 1 (Ddx1), mRNA [NM_	NM_134040	-1.13959
Mus musculus RIKEN cDNA D430004I08 gene (D430004I08Rik), mRNA [NM_1	NM_173424	-1.00442
Mus musculus mortality factor 4 like 1 (Morf4l1), mRNA [NM_024431]	NM_024431	-1.34379
Mus musculus olfactory receptor 1107 (Olfr1107), mRNA [NM_146844]	NM_146844	1.04022
Mus musculus expressed sequence AW111922 (AW111922), mRNA [NM_0217	NM_021792	-1.58239
Laminin, alpha 3	X84014	1.00048
Mus musculus hepatoma-derived growth factor, related protein 3 (Hdgfrp3), mR	NM_013886	1.0719
Mus musculus fructosamine 3 kinase (Fn3k), mRNA [NM_022014]	NM_022014	-1.13924
Polycomb group ring finger 3	AK009638	-1.11669
Keratin associated protein 3-1	D86424	1.13152
Mus musculus potassium channel tetramerisation domain containing 6 (Kctd6),	NM_027782	-1.252
RIKEN cDNA 1810038L18 gene	AK016565	-1.03054
Mus musculus topoisomerase (DNA) II alpha (Top2a), mRNA [NM_011623]	NM_011623	-1.01401
Mus musculus olfactory receptor 1378 (Olfr1378), mRNA [NM_146910]	NM_146910	1.00654
Mus musculus DEK oncogene (DNA binding) (Dek), mRNA [NM_025900]	NM_025900	-2.1798
Mus musculus polymerase (RNA) III (DNA directed) polypeptide B (Polr3b), mR	NM_027423	-1.28758
Mus musculus RIKEN cDNA A130038L21 gene (A130038L21Rik), mRNA [NM_	NM_172588	1.0951
Cat eye syndrome chromosome region, candidate 5 homolog (human)	AK044228	1.01733
Mus musculus RIKEN cDNA 8430410A17 gene (8430410A17Rik), mRNA [NM_	NM_173737	1.01637
Early B-cell factor 3	AK014058	1.04853
Mus musculus Duffy blood group (Dfy), mRNA [NM_010045]	NM_010045	1.06403
Mus musculus phospholipase A2, group IID (Pla2g2d), mRNA [NM_011109]	NM_011109	1.0006
Mus musculus ring finger protein 130 (Rnf130), mRNA [NM_021540]	NM_021540	-1.53459
Mus musculus eosinophil-associated, ribonuclease A family, member 5 (Ear5), r	NM_019398	1.01955
Mus musculus oculospanin (Ocsp), mRNA [NM_145363]	NM_145363	-1.10763
Mus musculus RIKEN cDNA 5430400H23 gene (5430400H23Rik), mRNA [NM_	NM_027762	1
Mus musculus DnaJ (Hsp40) homolog, subfamily B, member 1 (Dnajb1), mRNA	NM_018808	-1.21297
Mus musculus olfactory receptor 370 (Olfr370), mRNA [NM_146270]	NM_146270	1.07144
Dishevelled associated activator of morphogenesis 2	AY426536	1.17304
Mus musculus DNA segment, Chr 14, ERATO Doi 500, expressed (D14Ertd500	NM_145462	-1.17935
Trinucleotide repeat containing 6b	NM_144812	-1.09834
Signal sequence receptor, alpha	NM_025965	-1.24738
hypothetical protein 4930477M19	NM_177729	-1.0301
Mus musculus brain cDNA, clone MNCb-0953, similar to Mus musculus SPAG4	AB041554	1.06046
Mus musculus cylindromatosis (turban tumor syndrome) (Cyl), mRNA [NM_17	NM_173369	-1.17493
Myosin, heavy polypeptide 1, skeletal muscle, adult	AJ002522	-1.0838
Src-like-adaptor 2	AK030877	-1.28163
Mus musculus engrailed 2 (En2), mRNA [NM_010134]	NM_010134	1.02638

Mus musculus chemokine-like factor super family 7 (Cklfsf7), mRNA [NM_13397]	NM_133978	-1.20163
Mus musculus tripeptidyl peptidase II (Tpp2), mRNA [NM_009418]	NM_009418	1.03882
Mus musculus oxysterol binding protein, mRNA (cDNA clone IMAGE:2651122),	BC003443	1.14669
Mus musculus lactate dehydrogenase D (Ldhd), mRNA [NM_027570]	NM_027570	1.05172
Mus musculus RIKEN cDNA 1700120K04 gene (1700120K04Rik), mRNA [NM_	NM_026628	-1.12386
Mus musculus lipin 2 (Lpin2), mRNA [NM_022882]	NM_022882	1.3649
RIKEN cDNA 2610510B01 gene	AK122403	-1.09361
Mus musculus RIKEN cDNA 0610011I04 gene (0610011I04Rik), mRNA [NM_0:	NM_025326	-1.1911
Mus musculus dolichol-phosphate (beta-D) mannosyltransferase 1 (Dpm1), mR	NM_010072	-1.01611
Mus musculus potassium voltage-gated channel, subfamily H (eag-related), me	NM_133207	1.20298
Mus musculus high mobility group box 2-like 1 (Hmgb2l1), mRNA [NM_178017]	NM_178017	-1.2477
Thymoma viral proto-oncogene 3	AK033703	1.12286
Expressed sequence AA407930	AF224494	-1.01632
RIKEN cDNA 1700026L06 gene	BC055108	-1.0548
Mus musculus torsin family 2, member A (Tor2a), mRNA [NM_152800]	NM_152800	1.07166
Mus musculus cytotoxic granule-associated RNA binding protein 1 (Tia1), mRN	NM_011585	-1.11638
Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assem	NM_027175	-1.10301
Chemokine (C-C motif) receptor 1-like 1	NM_007718	1.0101
RIKEN cDNA 4631416L12 gene	AK018464	-1.00924
Mus musculus carboxypeptidase A3, mast cell (Cpa3), mRNA [NM_007753]	NM_007753	1.0046
Mus musculus sex determining region of Chr Y (Sry), mRNA [NM_011564]	NM_011564	-1.08892
Mus musculus olfactory receptor 878 (Olfr878), mRNA [NM_146798]	NM_146798	1.07174
RIKEN cDNA 1700011E24 gene	AK005861	1.02495
Mus musculus ubiquitin specific protease 33 (Usp33), mRNA [NM_133247]	NM_133247	-1.76817
Mus musculus oral-facial-digital syndrome 1 gene homolog (human) (Ofd1), mR	NM_177429	-1.33776
Diacylglycerol kinase, delta	AK052312	1.01715
Mus musculus growth arrest and DNA-damage-inducible 45 alpha (Gadd45a), n	NM_007836	-1.35204
Unknown		1.03663
Low density lipoprotein receptor-related protein associated protein 1	BC046641	-1.15527
Mus musculus glutathione S-transferase, theta 3 (Gstt3), mRNA [NM_133994]	NM_133994	-1.03673
Mus musculus nucleolar protein 1 (Nol1), mRNA [NM_138747]	NM_138747	-1.10283
Mus musculus RIKEN cDNA E230008N13 gene (E230008N13Rik), mRNA [NM_	NM_198660	1.12285
RIKEN cDNA 5930434B04 gene	AK083582	1.06815
Mus musculus RIKEN cDNA 6530403A03 gene (6530403A03Rik), mRNA [NM_	NM_026382	-1.32922
Mus musculus RIKEN cDNA 4833410J10 gene (4833410J10Rik), mRNA [NM_	NM_212445	-1.36421
Mus musculus desmoglein 2 (Dsg2), mRNA [NM_007883]	NM_007883	1.02977
Mus musculus 10 days lactation, adult female mammary gland cDNA, RIKEN fu	AK085738	-1.03975
Mus musculus tumor necrosis factor receptor superfamily, member 10b (Tnfrsf1	NM_020275	1.01209
Mus musculus RIKEN cDNA E130318E12 gene (E130318E12Rik), mRNA [NM_	NM_145510	-1.28267
Testis expressed gene 27	BC024483	1.09917
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:	AK006817	-1.06871
Mus musculus solute carrier family 35 (UDP-glucuronic acid/UDP-N-acetylgalac	NM_177732	1.06596
Mus musculus cDNA sequence BC032271 (BC032271), mRNA [NM_146234]	NM_146234	-1.0996
Mus musculus DNA segment, Chr 3, MJeffers 1 (D3Jfr1), mRNA [NM_144901]	NM_144901	-1.00624
Mus musculus kinesin family member 3C (Kif3c), mRNA [NM_008445]	NM_008445	1.15714
Mus musculus serine/threonine kinase 17b (apoptosis-inducing) (Stk17b), mRN	NM_133810	-1.50434
Mus musculus sarcoglycan, delta (dystrophin-associated glycoprotein) (Sgcd), n	NM_011891	1.05722
Mus musculus olfactory receptor 25 (Olfr25), mRNA [NM_146870]	NM_146870	-1.00876
PiggyBac transposable element derived 5	AK013562	1.06716
Mus musculus Max protein (Max), mRNA [NM_008558]	NM_008558	-1.27786
Mus musculus phospholipid transfer protein (Pltp), mRNA [NM_011125]	NM_011125	1.25706
RIKEN cDNA 1110020C17 gene	AK003851	-1.0387

Mus musculus membrane protein, palmitoylated (Mpp1), mRNA [NM_008621]	NM_008621	-1.07898
Mus musculus tubby-like protein 2 (Tulp2), mRNA [NM_008807]	NM_008807	1.08869
Mus musculus signal transducer and activator of transcription 2 (Stat2), mRNA [NM_019963]	NM_019963	1.42674
Mus musculus retinol binding protein 4, plasma (Rbp4), mRNA [NM_011255]	NM_011255	-1.31843
Mus musculus RIKEN cDNA 9330174J19 gene (9330174J19Rik), mRNA [NM_172613]	NM_172613	1.08231
Mus musculus asparaginyl-tRNA synthetase (Nars), mRNA [NM_027350]	NM_027350	-1.39352
Mus musculus RIKEN cDNA 2700097O09 gene (2700097O09Rik), mRNA [NM_028314]	NM_028314	-1.33282
CD248 antigen, endosialin	NM_054042	-1.15016
Mus musculus G patch domain containing 1 (Gpatc1), mRNA [NM_026181]	NM_026181	-1.19123
Mus musculus transmembrane 4 superfamily member 12 (Tm4sf12), mRNA [NM_173007]	NM_173007	-1.75143
Mus musculus ERO1-like (S. cerevisiae) (Ero1l), mRNA [NM_015774]	NM_015774	-1.63472
Mus musculus F-box and leucine-rich repeat protein 13 (Fbxl13), mRNA [NM_177076]	NM_177076	-1.01003
DNA segment, Chr 5, Wayne State University 152, expressed	NM_030886	-1.13041
Mus musculus OVO homolog-like 1 (Drosophila) (Ovol1), mRNA [NM_019935]	NM_019935	1.06805
Calcium channel, voltage-dependent, gamma subunit 2	AK047238	-1.01359
Unknown		-1.00925
Mus musculus dual specificity phosphatase 3 (vaccinia virus phosphatase VH1-RIKEN cDNA 4732493F09 gene	NM_028207 AK085209	1.15293 1
Mus musculus calyculin binding protein (Cacybp), mRNA [NM_009786]	NM_009786	-1.49308
Mus musculus secretin (Sct), mRNA [NM_011328]	NM_011328	-1.02081
Mus musculus integrin beta 7 (Itgb7), mRNA [NM_013566]	NM_013566	-1.00221
Mus musculus glutathione reductase 1 (Gsr), mRNA [NM_010344]	NM_010344	-1.68658
Mus musculus RIKEN cDNA 9130403P13 gene (9130403P13Rik), mRNA [NM_026345]	NM_026345	1.00271
RIKEN cDNA C330016H24 gene	AK082787	-1.00743
Mus musculus cDNA sequence BC004012 (BC004012), mRNA [NM_138671]	NM_138671	-1.20865
Mus musculus related RAS viral (r-ras) oncogene homolog 2 (Rras2), mRNA [NM_025846]	NM_025846	-1.50326
Mus musculus ankyrin repeat and SOCS box-containing protein 4 (Asb4), mRNA [NM_023048]	NM_023048	-1.01139
RIKEN cDNA 1100001E04 gene	AK048167	1.03914
Nei endonuclease VIII-like 1 (E. coli)	AK013322	1.04188
DNA segment, Chr 8, ERATO Doi 587, expressed	AK082766	-1.07724
RIKEN cDNA D930001I22 gene	AK009071	-1.00161
Mus musculus DNA segment, Chr X, Immunex 40, expressed (DXImx40e), mRNA [NM_138603]	NM_138603	1.00092
Mus musculus RIKEN cDNA 1500015O10 gene (1500015O10Rik), mRNA [NM_024283]	NM_024283	-1.06681
Mus musculus olfactory receptor 473 (Olfr473), mRNA [NM_146775]	NM_146775	1.07645
Mus musculus expressed sequence AI663987 (AI663987), mRNA [NM_033526]	NM_033526	1.06562
Leucine-rich repeats and calponin homology (CH) domain containing 3	AK076529	-1.01629
Mus musculus RIKEN cDNA 5730472N09 gene (5730472N09Rik), mRNA [NM_175392]	NM_175392	-1.11364
Ankyrin repeat and KH domain containing 1	AK042243	1
Mus musculus plexin B3 (Plxnb3), mRNA [NM_019587]	NM_019587	1.02609
Mus musculus RIKEN cDNA 6330548O06 gene (6330548O06Rik), mRNA [NM_172994]	NM_172994	-1.07371
Myosin, light polypeptide kinase	AK044527	1.03124
Mus musculus RIKEN cDNA 5730414C17 gene (5730414C17Rik), mRNA [NM_133680]	NM_133680	-1.48331
Mus musculus potassium voltage gated channel, Shaw-related subfamily, member 1	NM_008422	-1.03962
Eosinophil-associated, ribonuclease A family, member 4	NM_017389	-1.00261
Replication protein A2	D00812	-1.19643
Mus musculus fibrinogen, gamma polypeptide (Fgg), mRNA [NM_133862]	NM_133862	-1.03584
Mus musculus RIKEN cDNA C920001D21 gene (C920001D21Rik), mRNA [NM_177081]	NM_177081	1.10119
Mus musculus olfactory receptor 1243 (Olfr1243), mRNA [NM_146969]	NM_146969	1.07984
Mus musculus olfactory receptor 368 (Olfr368), mRNA [NM_146374]	NM_146374	1.00828
Mus musculus ATP-binding cassette, sub-family G (WHITE), member 2 (Abcg2)	NM_011920	-1.29939
Mus musculus vomeronasal 1 receptor, C16 (V1rc16), mRNA [NM_134171]	NM_134171	1.4878
Mus musculus major urinary protein 1 (Mup1), mRNA [NM_031188]	NM_031188	-1.04748

Mus musculus UDP-N-acetyl-alpha-D-galactosamine:(N-acetylneuraminy)-galactose 4-epimerase (Mgat2), mRNA [NM_008081]	NM_008081	1.07924
Mus musculus Bcl6 interacting corepressor (Bcor), transcript variant d, mRNA [NM_175046]	NM_175046	1.32308
Mus musculus mannoside acetylglucosaminyltransferase 1 (Mgat1), mRNA [NM_010794]	NM_010794	1.27704
Mus musculus ectonucleotide pyrophosphatase/phosphodiesterase 5 (Enpp5), mRNA [NM_032003]	NM_032003	-1.16817
Mus musculus catechol-O-methyltransferase (Comt), mRNA [NM_007744]	NM_007744	1.15494
Mus musculus chemokine (C-X-C motif) ligand 2 (Cxcl2), mRNA [NM_009140]	NM_009140	1.00196
RIKEN cDNA 6030408C04 gene	AK129332	-1.03828
Mus musculus homer homolog 1 (Drosophila) (Homer1), transcript variant S, mRNA [NM_011982]	NM_011982	1.06815
Mus musculus myogenic factor 5 (Myf5), mRNA [NM_008656]	NM_008656	-1.19331
Mus musculus RIKEN cDNA 4933407N01 gene (4933407N01Rik), mRNA [NM_025745]	NM_025745	-1.20973
Mus musculus RIKEN cDNA 2410016O06 gene (2410016O06Rik), mRNA [NM_023633]	NM_023633	1.06613
Mus musculus ATPase, H+ transporting, lysosomal accessory protein 2 (Atp6ap2), mRNA [NM_027439]	NM_027439	-1.94988
Mus musculus low density lipoprotein receptor (Ldlr), mRNA [NM_010700]	NM_010700	1.16076
Mus musculus RIKEN cDNA C330016O10 gene (C330016O10Rik), mRNA [NM_145974]	NM_145974	-1.04643
Mus musculus transient receptor potential cation channel, subfamily M, member 1 (Trpm1), mRNA [NM_020277]	NM_020277	1.06994
Phosphatase and actin regulator 1 (Pact1), mRNA [BC048620]	BC048620	1.26235
Mus musculus potassium voltage-gated channel, Isk-related subfamily, gene 2 (Kv10.1), mRNA [NM_134110]	NM_134110	-1.14543
Mus musculus potassium channel tetramerisation domain containing 2 (Kctd2), mRNA [NM_183285]	NM_183285	1.06071
Mus musculus serine/threonine kinase 4 (Stk4), mRNA [NM_021420]	NM_021420	1.13196
Mus musculus expressed sequence AW011752 (AW011752), mRNA [NM_134034]	NM_134034	-1.02537
Mus musculus epsin 3 (Epn3), mRNA [NM_027984]	NM_027984	1.26363
Mus musculus neuropeptide FF-amide peptide precursor (Npff), mRNA [NM_01018787]	NM_01018787	1.17951
Mus musculus COMM domain containing 9 (Commd9), mRNA [NM_029635]	NM_029635	1.00164
Mus musculus interleukin 6 signal transducer (Il6st), mRNA [NM_010560]	NM_010560	-1.05199
RIKEN cDNA 4933415A04 gene	AK016814	1.10844
Golgi transport 1 homolog A (S. cerevisiae) (Gtp1p), mRNA [NM_026680]	NM_026680	1.18125
FERM, RhoGEF (Arhgef) and pleckstrin domain protein 1 (chondrocyte-derived) (Frdk1), mRNA [BC004009]	BC004009	-1.31596
Mus musculus 0 day neonate cerebellum cDNA, RIKEN full-length enriched library clone 170 AK082620	AK082620	-1.07348
CDNA sequence BC037527	AK017625	1.03944
Amylo-1,6-glucosidase, 4-alpha-glucanotransferase (Aglc4), mRNA [AK028914]	AK028914	-1.22977
Mus musculus transmembrane 4 superfamily member 5 (Tm4sf5), mRNA [NM_029360]	NM_029360	1.00221
Mus musculus mitochondrial ribosome recycling factor (Mrff), mRNA [NM_026422]	NM_026422	-1.26814
Mus musculus acyl-Coenzyme A binding domain containing 6 (Acbd6), mRNA [NM_028250]	NM_028250	1.10611
G-protein coupled receptor 12 (Gpr12), mRNA [NM_008151]	NM_008151	1.03498
Mus musculus RIKEN cDNA 2410003C20 gene (2410003C20Rik), mRNA [NM_025884]	NM_025884	-1.21686
Williams-Beuren syndrome chromosome region 14 homolog (human) (WSCR14H), mRNA [NM_021455]	NM_021455	1.07539
Cytochrome P450, family 17, subfamily a, polypeptide 1 (Cyp17a1), mRNA [AI464820]	AI464820	1.00516
Mus musculus potassium channel tetramerisation domain containing 13 (Kctd13), mRNA [NM_172747]	NM_172747	1.10767
RIKEN cDNA 1700013G10 gene	AK052419	1.00184
Mus musculus solute carrier family 2 (facilitated glucose transporter), member 4 (Slc2a4), mRNA [NM_009204]	NM_009204	-1.29066
AV039271 Mus musculus adult C57BL/6J testis Mus musculus cDNA clone 170 AV039271	AK077458	1.06175
RIKEN cDNA 2210018M03 gene	AK077458	1.16454
Mus musculus olfactory receptor 1213 (Olfr1213), mRNA [NM_146898]	NM_146898	-1.05283
Ectonucleotide pyrophosphatase/phosphodiesterase 3 (Enpp3), mRNA [BC005527]	BC005527	-1.04552
Mus musculus midline 1 (Mid1), mRNA [NM_010797]	NM_010797	1.25815
endomucin (Emcn), mRNA [NM_016885]	NM_016885	-1.29574
Mus musculus calcium binding protein, intestinal (Cai), mRNA [NM_009787]	NM_009787	1.06492
Sushi, nidogen and EGF-like domains 1 (Sushi), mRNA [AK086298]	AK086298	-1.00056
Transmembrane 7 superfamily member 4 (Tm7sf4), mRNA [AB109560]	AB109560	1.0955
RIKEN cDNA E130201N16 gene	AK018486	-1.0201
Mus musculus olfactory receptor 281 (Olfr281), mRNA [NM_146280]	NM_146280	-1.01017
Mus musculus CD209c antigen (Cd209c), mRNA [NM_130903]	NM_130903	-1.15534

N-acetyltransferase ARD1 homolog (<i>S. cerevisiae</i>)	NM_019870	1.03014
Mus musculus stanniocalcin 2 (<i>Stc2</i>), mRNA [NM_011491]	NM_011491	-1.32798
RIKEN cDNA 5430404L10 gene	AK030381	1.00124
Mus musculus aarF domain containing kinase 4 (<i>Adck4</i>), mRNA [NM_133770]	NM_133770	1.0884
Mus musculus RIKEN cDNA 1110007C09 gene (1110007C09Rik), mRNA [NM_026738]	NM_026738	1.01456
Spectrin alpha 2	X12801	-1.03563
Mus musculus RIKEN cDNA B230312I18 gene (B230312I18Rik), mRNA [NM_172740]	NM_172740	-1.53598
Mus musculus promyelocytic leukemia (<i>Pml</i>), mRNA [NM_008884]	NM_008884	1.10484
Mus musculus RIKEN cDNA 2010001J22 gene (2010001J22Rik), mRNA [XM_128172]	XM_128172	1.06185
Parathyroid hormone receptor 2	AK045576	1.11262
Mus musculus RIKEN cDNA 4832415H08 gene (4832415H08Rik), mRNA [NM_177068]	NM_177068	1.11797
Mus musculus non-metastatic cells 7, protein expressed in (<i>Nme7</i>), mRNA [NM_138314]	NM_138314	-1.40139
Mus musculus aryl hydrocarbon receptor nuclear translocator-like 2 (<i>Arntl2</i>), mRNA [NM_172309]	NM_172309	-1.11273
Patatin-like phospholipase domain containing 2	NM_025802	-1.1798
Mus musculus RIKEN cDNA 9830124H08 gene (9830124H08Rik), mRNA [NM_144842]	NM_144842	1.01603
Mus musculus UDP-glucose ceramide glucosyltransferase (<i>Ugcg</i>), mRNA [NM_011673]	NM_011673	-1.00644
Mus musculus olfactory receptor 514 (<i>Olf514</i>), mRNA [NM_146726]	NM_146726	1.10479
Mus musculus N-ethylmaleimide sensitive fusion protein attachment protein alpha (<i>Nesf1</i>), mRNA [NM_025898]	NM_025898	-1.37188
Mus musculus olfactory receptor 338 (<i>Olf338</i>), mRNA [NM_146947]	NM_146947	1.06132
Mus musculus transcription factor CP2-like 2 (<i>Tcfcp2l2</i>), mRNA [NM_145890]	NM_145890	-1.4439
RIKEN cDNA 1700129I15 gene	AK018998	-1.00496
Mus musculus adenylate cyclase 9 (<i>Adcy9</i>), mRNA [NM_009624]	NM_009624	1.06114
Mus musculus olfactory receptor 853 (<i>Olf853</i>), mRNA [NM_146906]	NM_146906	1.34681
similar to zinc finger protein 560	AK028777	-1.02996
Mus musculus olfactory receptor 1471 (<i>Olf1471</i>), mRNA [NM_207132]	NM_207132	1.02
Keratin complex 1, acidic, gene 5	X65506	1.01997
Mus musculus expressed sequence AI586120 (AI586120), mRNA [NM_178697]	NM_178697	1.29456
Cytochrome c oxidase, subunit XVII assembly protein homolog (yeast)	BC048668	-1.20212
Fibroblast growth factor 6	M92416	1.07337
Mus musculus olfactory receptor 129 (<i>Olf129</i>), mRNA [NM_146327]	NM_146327	1.00369
Mus musculus ubiquinol-cytochrome c reductase (6.4kD) subunit (<i>Uqcrl1</i>), mRNA [NM_025650]	NM_025650	-1.12873
Mus musculus vesicle-associated membrane protein, associated protein B and C (<i>Vamp3</i>), mRNA [NM_019806]	NM_019806	-1.0168
Unknown		1.09381
RIKEN cDNA 1700003F12 gene	AK005633	1.03722
Mus musculus phosphoglucomutase 3 (<i>Pgm3</i>), mRNA [NM_028352]	NM_028352	1.03642
Mus musculus immediate early response 2 (<i>Ier2</i>), mRNA [NM_010499]	NM_010499	1.187
Mus musculus triggering receptor expressed on myeloid cells 1 (<i>Trem1</i>), mRNA [NM_021406]	NM_021406	1.11339
Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 5 (<i>Abcc5</i>), mRNA [NM_013790]	NM_013790	-1.13096
Mus musculus CDC42 effector protein (Rho GTPase binding) 4 (<i>Cdc42ep4</i>), mRNA [NM_020006]	NM_020006	1.10818
Mus musculus Eph receptor A1 (<i>Epha1</i>), mRNA [NM_023580]	NM_023580	-1.07365
Mus musculus membrane-spanning 4-domains, subfamily A, member 6B (<i>Ms4a6b</i>), mRNA [NM_027209]	NM_027209	-1.3791
Mus musculus UDP-glucuronate decarboxylase 1 (<i>Uxs1</i>), mRNA [NM_026430]	NM_026430	-1.28484
Mus musculus actin, alpha 1, skeletal muscle (<i>Acta1</i>), mRNA [NM_009606]	NM_009606	1.21139
RIKEN cDNA 1700092E16 gene	AK007040	1.02252
RIKEN cDNA 4933434I06 gene	AY454124	-1.28411
RIKEN cDNA 4930583I09 gene	AK019827	1.10982
Mus musculus expressed sequence AW551984 (AW551984), mRNA [NM_178737]	NM_178737	-1.077
Mus musculus guanine nucleotide binding protein (G protein), gamma 10 (<i>Gng10</i>), mRNA [NM_025277]	NM_025277	-1.2871
Mus musculus ATP-binding cassette, sub-family A (ABC1), member 2 (<i>Abca2</i>), mRNA [NM_007379]	NM_007379	1.13533
Mus musculus neural precursor cell expressed, developmentally down-regulated 1 (<i>Nepcd1</i>), mRNA [NM_008682]	NM_008682	-1.70094
Mus musculus calcium channel, voltage-dependent, alpha 1F subunit (<i>Cacna1f</i>), mRNA [NM_019582]	NM_019582	1.02444
Mus musculus paladin (<i>Pald</i>), mRNA [NM_013753]	NM_013753	1.13185

Mus musculus general transcription factor II H, polypeptide 2 (Gtf2h2), mRNA [NM_022011]	NM_022011	-1.30102
Mus musculus ubiquitin specific protease 11 (Usp11), mRNA [NM_145628]	NM_145628	1.22788
Mus musculus fibroblast growth factor 18 (Fgf18), mRNA [NM_008005]	NM_008005	1.11714
Mus musculus exportin 6 (Xpo6), mRNA [NM_028816]	NM_028816	1.09899
Mus musculus APG3 autophagy 3-like (S. cerevisiae) (Apg3l), mRNA [NM_026402]	NM_026402	-1.00792
Mus musculus bruno-like 4, RNA binding protein (Drosophila) (Brunol4), mRNA [NM_133195]	NM_133195	-1.16711
Mus musculus zinc finger protein 59 (Zfp59), mRNA [NM_011762]	NM_011762	-1.00785
Mus musculus S-adenosylhomocysteine hydrolase-like 1 (Ahcyl1), mRNA [NM_145542]	NM_145542	-1.29793
Mus musculus olfactory receptor 676 (Olfr676), mRNA [NM_147095]	NM_147095	-1.01006
RIKEN cDNA 2010308F09 gene	BY708429	1.0022
Mus musculus olfactory receptor 433 (Olfr433), mRNA [NM_146717]	NM_146717	-1.16493
Mus musculus expressed sequence A1851076 (A1851076), mRNA.	XM_110955	-1.15368
CDNA sequence BC065123	AK047427	-1.35411
Mus musculus RIKEN cDNA 5430437P03 gene (5430437P03Rik), mRNA [NM_026636]	NM_026636	1.1382
Mus musculus transcription elongation factor A (SII)-like 1 (Tceal1), mRNA [NM_146236]	NM_146236	-1.14432
Mus musculus forkhead box N4 (Foxn4), mRNA [NM_148935]	NM_148935	-1.1525
Mus musculus leukocyte cell-derived chemotaxin 2 (Lect2), mRNA [NM_010702]	NM_010702	1.09503
Mus musculus coenzyme Q6 homolog (yeast) (Coq6), mRNA [NM_172582]	NM_172582	1.0021
RIKEN cDNA 2210019G11 gene	AK008754	1.0439
Mus musculus RIKEN cDNA 2410018M08 gene (2410018M08Rik), mRNA [NM_183088]	NM_183088	1.0201
RIKEN cDNA 4921509E05 gene	BC059882	1.08897
Mus musculus calcium channel, voltage-dependent, beta 1 subunit (Cacnb1), mRNA [NM_031173]	NM_031173	1.30211
RIKEN cDNA 1700028D05 gene	AK006449	1.03493
RIKEN cDNA 1700012H05 gene	AK005907	1.00483
Mus musculus aristaless 3 (Alx3), mRNA [NM_007441]	NM_007441	1.09561
Solute carrier family 28 (sodium-coupled nucleoside transporter), member 2	AK040292	1
Mus musculus septin 7 (Sept7), mRNA [NM_009859]	NM_009859	-1.83314
Mus musculus cathepsin 7 (Cts7), mRNA [NM_019539]	NM_019539	-1.14239
Dedicator of cytokinesis 10	AK042052	1.07128
Transmembrane protein 42	NM_025339	-1.07179
Mus musculus latrophilin 1 (Lphn1), mRNA [XM_134383]	XM_134383	-1.17031
RIKEN cDNA 6430706D22 gene	BC004768	1.199
Mus musculus RIKEN cDNA 9130004K12 gene (9130004K12Rik), mRNA [NM_175374]	NM_175374	-1.41679
Mus musculus nidogen 2 (Nid2), mRNA [NM_008695]	NM_008695	-1.04929
Myosin, heavy polypeptide 3, skeletal muscle, embryonic	M11154	1.04539
Mus musculus mesothelin (Msln), mRNA [NM_018857]	NM_018857	1.00791
Mus musculus mitochondrial ribosomal protein S6 (Mrps6), mRNA [NM_080456]	NM_080456	-1.28739
Mus musculus CCAAT/enhancer binding protein (C/EBP), alpha (Cebpa), mRNA [NM_007678]	NM_007678	1.08556
Mus musculus apolipoprotein B editing complex 2 (Apobec2), mRNA [NM_009696]	NM_009696	-1.28561
Dihydrofolate reductase	L26316	-1.03791
Rhomboid, veinlet-like 7 (Drosophila)	AK032400	-1.11173
Mus musculus pregnancy specific glycoprotein 17 (Psg17), mRNA [NM_007677]	NM_007677	1.16831
Mus musculus RIKEN cDNA 1810020G14 gene (1810020G14Rik), mRNA [NM_025461]	NM_025461	-1.39924
Polycystic kidney disease 1 like 2	AK007293	-1.02646
Mus musculus ADP-ribosylation factor-like 6 (Arl6), mRNA [NM_019665]	NM_019665	-1.21953
Mus musculus RIKEN cDNA E130107117 gene (E130107117Rik), mRNA [XM_134427]	XM_134427	1.08954
Mus musculus stromal interaction molecule 1 (Stim1), mRNA [NM_009287]	NM_009287	1.23253
Mus musculus RIKEN cDNA 0610009C03 gene (0610009C03Rik), mRNA [NM_025645]	NM_025645	-1.03789
T-cell receptor beta, variable 13	BC030075	-1.125
Traf2 binding protein	NM_145133	-1.52291
Mus musculus fumarate hydratase 1 (Fh1), mRNA [NM_010209]	NM_010209	-1.54363
Mus musculus RIKEN cDNA C330018J07 gene (C330018J07Rik), mRNA [NM_177093]	NM_177093	1.11483

ATPase, Class VI, type 11B	AK003820	-1.1093
Mus musculus cytochrome P450, family 7, subfamily b, polypeptide 1 (Cyp7b1), NM_007825		-1.45612
SRY-box containing gene 14	AF193435	1.06947
Mus musculus protease, serine, 8 (prostasin) (Prss8), mRNA [NM_133351]	NM_133351	1.21104
Mus musculus RIKEN cDNA 2610528E23 gene (2610528E23Rik), mRNA [NM_025599]		-1.02136
Mus musculus RAS-related C3 botulinum substrate 2 (Rac2), mRNA [NM_009008]	NM_009008	1.06544
Mus musculus heparan sulfate (glucosamine) 3-O-sulfotransferase 3B (Hs3st3b)	NM_018805	1.31677
Mus musculus G protein-coupled receptor 33 (Gpr33), mRNA [NM_008159]	NM_008159	1.01523
Mus musculus RIKEN cDNA 2610028I09 gene (2610028I09Rik), mRNA [NM_025660]		1.04356
Mus musculus ubiquitin-conjugating enzyme E2R 2 (Ube2r2), mRNA [NM_0262275]		-1.21817
Mus musculus glucokinase activity, related sequence 1 (Gk-rs1), mRNA [NM_010293]		1.1107
RIKEN cDNA 1700006A11 gene	AK005660	1.07847
Mus musculus RIKEN cDNA 2310039H08 gene (2310039H08Rik), mRNA [NM_025966]		1.00058
Mus musculus synaptotagmin 7 (Sy7), mRNA [NM_018801]	NM_018801	1.00945
Mus musculus RIKEN cDNA 9530002K18 gene (9530002K18Rik), mRNA [NM_183123]		1.03918
Diacylglycerol kinase, epsilon	AK049335	-1.0181
Potassium voltage-gated channel, subfamily Q, member 5	AF263836	1.06789
Mus musculus calmodulin binding protein 1 (Calmbp1), mRNA [NM_009791]	NM_009791	1.00138
Mus musculus cathepsin J (Ctsj), mRNA [NM_012007]	NM_012007	-1.07133
Mus musculus RIKEN cDNA 1110014D18 gene (1110014D18Rik), mRNA [NM_026746]		-1.48826
Mus musculus ATP-binding cassette, sub-family E (OABP), member 1 (Abce1), NM_015751		-1.10954
Mus musculus hyaluronan and proteoglycan link protein 4 (Hapln4), mRNA [NM_177900]		1.01663
Mus musculus Rhesus blood group-associated C glycoprotein (Rhcg), mRNA [NM_019799]		1.1386
Mus musculus olfactory receptor 672 (Olfr672), mRNA [NM_146760]	NM_146760	-1.01699
Mus musculus sestrin 3 (Sesn3), mRNA [NM_030261]	NM_030261	-1.06709
Myosin, heavy polypeptide 8, skeletal muscle, perinatal	M12289	1.15359
Mus musculus RIKEN cDNA 1700025G04 gene (1700025G04Rik), mRNA [NM_197990]		-1.11933
Makorin, ring finger protein, 1	NM_018810	1.05154
Mus musculus endothelin receptor type B (Ednrb), mRNA [NM_007904]	NM_007904	1.15618
Mus musculus RIKEN cDNA 2700023J09 gene (2700023J09Rik), mRNA [NM_028284]		-1.35411
Mus musculus stromal cell derived factor receptor 1 (Sdfr1), mRNA [NM_009145]		-1.73709
Mus musculus galactosidase, alpha (Gla), mRNA [NM_013463]	NM_013463	1.0917
Usher syndrome 3A homolog (human)	AK037267	1.0709
Mus musculus RIKEN cDNA 1700018F24 gene (1700018F24Rik), mRNA [NM_027069]		1.07223
Mus musculus expressed sequence AI415282 (AI415282), mRNA [NM_134021]		-1.02351
Mus musculus zinc finger, DHHC domain containing 12 (Zdhhc12), mRNA [NM_025428]		1.05298
Mus musculus protein kinase, AMP-activated, gamma 1 non-catalytic subunit (P	NM_016781	-1.0162
RIKEN cDNA 9930013L23 gene	AK018112	-1.18359
Mus musculus RIKEN cDNA 2700071E21 gene (2700071E21Rik), mRNA [XM_130826]		-1.06308
Adaptor-related protein complex 3, beta 2 subunit	BC024722	1.10758
Mus musculus syntaxin 12 (Stx12), mRNA [NM_133887]	NM_133887	-1.86534
Mus musculus hypothetical protein, MNCb-4414 (AB041549), mRNA [NM_021435]		-1.06261
Stefin A2	M92418	-1.13589
Mus musculus olfactory receptor 508 (Olfr508), mRNA [NM_146773]	NM_146773	1.01041
Mus musculus similar to olfactory receptor MOR258-4P (LOC230679), mRNA [XM_143937]		1.04819
Mus musculus RIKEN cDNA A530099J19 gene (A530099J19Rik), mRNA [NM_175688]		-1.02647
Mus musculus dynactin 3 (Dctn3), mRNA [NM_016890]	NM_016890	-1.27109
RIKEN cDNA C030003D03 gene	AK048673	-1.15468
Ubiquitin 1	AK019173	1.14654
Glycoprotein 6 (platelet)	AK079424	-1.14609
Mus musculus adaptor protein complex AP-1, beta 1 subunit (Ap1b1), mRNA [NM_007454]		-1.08136
Mus musculus RIKEN cDNA 3110023E09 gene (3110023E09Rik), mRNA [NM_026522]		-1.12693

Mus musculus thyrotropin releasing hormone receptor 2 (Trhr2), mRNA [NM_133202]	NM_133202	1.1053
Mus musculus RIKEN cDNA 1700012P16 gene (1700012P16Rik), mRNA [NM_053266]	NM_053266	-1.02443
Mus musculus cell division cycle and apoptosis regulator 1 (Ccar1), mRNA [NM_026201]	NM_026201	-1.3074
Mus musculus neuropeptide Y receptor Y5 (Npy5r), mRNA [NM_016708]	NM_016708	1.00868
Epsilon-tubulin 1	BC062179	-1.02075
RIKEN cDNA 4921517J23 gene	AK014911	1.08904
Mus musculus XPA binding protein 2 (Xab2), mRNA [NM_026156]	NM_026156	-1.06267
Regulator of G-protein signaling like 2	AK029630	1.13535
Mus musculus hydroxysteroid (17-beta) dehydrogenase 2 (Hsd17b2), mRNA [NM_008290]	NM_008290	-1.12841
Mus musculus RIKEN cDNA 2700002L06 gene (2700002L06Rik), mRNA [XM_126772]	XM_126772	1.23311
RIKEN cDNA 9330179D12 gene	AK043994	1.12775
RIKEN cDNA A230065J02 gene	AK052077	1.08704
Myotubularin related protein 13	AK029035	-1.14847
Mus musculus hypothetical gene supported by NM_053120 (LOC380602), mRNA [XM_358308]	XM_358308	-1.52066
Mus musculus WAP four-disulfide core domain 1 (Wfdc1), mRNA [NM_023395]	NM_023395	1.12558
Mus musculus RIKEN cDNA C030002J06 gene (C030002J06Rik), mRNA [NM_176988]	NM_176988	-1.01935
Mus musculus RIKEN cDNA 0610041B22 gene (0610041B22Rik), mRNA [NM_025340]	NM_025340	-1.22318
neuropeptide B	NM_153288	1.02965
Mus musculus myristoylated alanine rich protein kinase C substrate (Marcks), mRNA [NM_008538]	NM_008538	-1.93599
WD repeat domain 32	AK076417	1.10323
Mus musculus Sjogren syndrome antigen B (Ssb), mRNA [NM_009278]	NM_009278	-1.59697
Mus musculus 2,4-dienoyl CoA reductase 1, mitochondrial (Decr1), mRNA [NM_026172]	NM_026172	-1.05658
Mus musculus RIKEN cDNA 2610033H07 gene (2610033H07Rik), mRNA [NM_029278]	NM_029278	1.00835
Pam, highwire, rpm 1	AK081652	1.52503
Mus musculus neurofilament, heavy polypeptide (Nefh), mRNA [NM_010904]	NM_010904	1.00795
Mus musculus guanosine monophosphate reductase (Gmpr), mRNA [NM_025508]	NM_025508	-1.03324
Nudix (nucleoside diphosphate linked moiety X)-type motif 16	NM_029385	-1.03585
Mus musculus aprataxin (Aptx), mRNA [NM_025545]	NM_025545	1.00639
Angiotensinogen	NM_007428	-1.0074
Forkhead box P1	AK034238	1.21265
Mus musculus plasminogen (Plg), mRNA [NM_008877]	NM_008877	-1.03133
Mus musculus RIKEN cDNA 4931417E11 gene (4931417E11Rik), mRNA [NM_025737]	NM_025737	1.02482
Mus musculus RIKEN cDNA C730042F17 gene (C730042F17Rik), mRNA [NM_145517]	NM_145517	-1.81503
RIKEN cDNA 4930568D16 gene	AK016248	1.07414
Mus musculus protein tyrosine phosphatase, non-receptor type 20 (Ptpn20), mRNA [NM_008978]	NM_008978	1.17246
AV124335 Mus musculus C57BL/6J 11-day embryo Mus musculus cDNA clone AV124335	AV124335	-1.1272
L(3)mbt-like 2 (Drosophila)	NM_053157	-1.5917
Mus musculus sequestosome 1 (Sqstm1), mRNA [NM_011018]	NM_011018	-1.05206
Mus musculus olfactory receptor 1508 (Olfr1508), mRNA [NM_020513]	NM_020513	1.06474
Mus musculus Dullard homolog (Xenopus laevis) (Dullard), mRNA [NM_026017]	NM_026017	-1.06839
Mus musculus regulator of nonsense transcripts 1 (Rent1), mRNA [NM_030680]	NM_030680	1.03103
Mus musculus spectrin alpha 1 (Spna1), mRNA [NM_011465]	NM_011465	1.02667
Mus musculus ubiquitin conjugating enzyme 7 interacting protein 1 (Ubce7ip1), mRNA [NM_080561]	NM_080561	-1.11132
Mus musculus RIKEN cDNA 1700049M11 gene (1700049M11Rik), mRNA [NM_183271]	NM_183271	-1.03227
Mus musculus mannoside acetylglucosaminyltransferase 2 (Mgat2), mRNA [NM_146035]	NM_146035	-1.17261
similar to CTCL tumor antigen se57-1	NM_201362	-1.36229
Mus musculus protein tyrosine phosphatase, non-receptor type substrate 1 (Ptpn22), mRNA [NM_007547]	NM_007547	1.00693
Mus musculus ollistatin-like 5 (Fstl5), mRNA [NM_178673]	NM_178673	1.0988
Mus musculus microsomal glutathione S-transferase 1 (Mgst1), mRNA [NM_019946]	NM_019946	-1.33541
Mus musculus apoptotic chromatin condensation inducer 1 (Acin1), mRNA [NM_023190]	NM_023190	1.19862
Mus musculus otoconin 90 (Oc90), mRNA [NM_010953]	NM_010953	-1.02309
Mus musculus hypothetical protein A830058L05 (A830058L05), mRNA [NM_172486]	NM_172486	-1.70703

Mus musculus mage-e2 mRNA, partial cds.	AF319982	1.03823
Mus musculus feminization 1 homolog b (C. elegans) (Fem1b), mRNA [NM_010193]	NM_010193	1.01772
RIKEN cDNA 4930426L09 gene	AK015207	-1.11309
Ring finger protein 121	AK089714	1.05031
RIKEN cDNA 4930511M18 gene	AK005903	-1.06453
Crumbs homolog 2 (Drosophila)	AK031068	-1.03253
Mus musculus potassium channel, subfamily K, member 5 (Kcnk5), mRNA [NM_021542]	NM_021542	1.03766
Claudin 3	AK017130	1.09659
Mus musculus RIKEN cDNA 6430701C03 gene (6430701C03Rik), mRNA [NM_175237]	NM_175237	-1.03706
Jumonji domain containing 1A	AK129204	-1.16082
Mus musculus COMM domain containing 4 (Commd4), mRNA [NM_025417]	NM_025417	1.04998
RIKEN cDNA 2700050L05 gene	AK052387	1.11067
Mus musculus DNA segment, Chr 3, University of California at Los Angeles 1 [NM_030685]	NM_030685	-1.45847
Mus musculus olfactory receptor 641 (Olfr641), mRNA [NM_147072]	NM_147072	1.09619
Mus musculus phospholipase A2, group VI (Pla2g6), mRNA [NM_016915]	NM_016915	1.18901
Olfactory receptor 1344	AK046418	-1.06717
Mus musculus pregnancy-specific glycoprotein 23 (Psg23), mRNA [NM_020261]	NM_020261	1
Mus musculus rhomboid, veinlet-like 4 (Drosophila) (Rhbdl4), mRNA [NM_139228]	NM_139228	1.11408
RIKEN cDNA 4833403I15 gene	AK014652	1.01417
OLFACTORY RECEPTOR GA_X6K02T2PMLR-6454789-6455712. [Source:SPTREMBL;Accession:AF319982]		1.07649
Leucine rich repeat containing 16	AK046870	1.11161
hypothetical 9130022E09	AK018644	1.06981
RIKEN cDNA 4930521E07 gene	AK015861	1.01943
Mus musculus sodium channel, voltage-gated, type XI, alpha polypeptide (Scn11), mRNA [NM_011887]	NM_011887	1.02604
UI-M-AL1-ahq-h-06-0-UI.s1 NIH_BMAP_MCO_N Mus musculus cDNA clone UI AI844789	UI AI844789	1.05046
Mus musculus interleukin 13 receptor, alpha 1 (Il13ra1), mRNA [NM_133990]	NM_133990	-1.30179
Mus musculus purinergic receptor P2X, ligand-gated ion channel, 3 (P2rx3), mRNA [NM_145526]	NM_145526	1.05525
AB065580 seven transmembrane helix receptor {Homo sapiens}, partial (12%) [TC1042816]		-1.45324
Mus musculus platelet-activating factor acetylhydrolase, isoform 1b, beta1 subunit, mRNA [NM_013625]	NM_013625	-1.97813
V-abl Abelson murine leukemia viral oncogene 2 (arg, Abelson-related gene)	AK050127	-1.48884
Mus musculus Ras-related GTP binding A (Rraga), mRNA [NM_178376]	NM_178376	-1.72764
Mus musculus solute carrier organic anion transporter family, member 3a1 (Slc3a1), mRNA [NM_023908]	NM_023908	-1.08679
Zinc finger, RAN-binding domain containing 1	BC017520	1.28381
Mus musculus Rho-related BTB domain containing 2 (Rhoibt2), mRNA [NM_151535]	NM_151535	1.03036
Triadin	AF223416	-1.45715
Myb protein P42POP	NM_145579	1.12437
Similar to Transcriptional repressor scratch 2 (Scratch homolog 2 zinc finger protein), mRNA [AK090280]	AK090280	1.30448
A kinase (PRKA) anchor protein 2	AK046082	-1.24551
Transmembrane, prostate androgen induced RNA	AK077382	1.07737
Mus musculus RAB12, member RAS oncogene family (Rab12), mRNA [NM_024448]	NM_024448	-1.03469
Mus musculus tudor domain containing 1 (Tdrd1), transcript variant 4, mRNA [NM_031387]	NM_031387	-1.03693
Mus musculus troponin C, cardiac/slow skeletal (Tnnc), mRNA [NM_009393]	NM_009393	-1.22298
Mus musculus leucine-zipper-like transcriptional regulator, 1 (Lztr1), mRNA [NM_025808]	NM_025808	-1.05429
Mus musculus PTK7 protein tyrosine kinase 7 (Ptk7), mRNA [NM_175168]	NM_175168	1.01004
Mus musculus bicaudal D homolog 2 (Drosophila) (Bicd2), mRNA [NM_029791]	NM_029791	1.54582
Immunoglobulin kappa chain, constant region	AF152371	-1.04639
Mus musculus RIKEN cDNA 2610028L19 gene (2610028L19Rik), mRNA [NM_027101]	NM_027101	-1.38012
Mus musculus tripartite motif protein 33 (Trim33), mRNA [NM_053170]	NM_053170	-1.39365
Mus musculus potassium intermediate/small conductance calcium-activated channel, subfamily R, member 1 (Kcnc1), mRNA [NM_008433]	NM_008433	1.06221
Mus musculus TBC1 domain family, member 4 (Tbc1d4), mRNA [NM_173380]	NM_173380	1.14543
LIM domain containing preferred translocation partner in lipoma	AK034659	1.14253
Myosin, heavy polypeptide 4, skeletal muscle	AJ278733	-1.24033

Mus musculus leukocyte receptor cluster (LRC) member 1 (Leng1), mRNA [NM_027203]	NM_027203	-1.05607
Mus musculus thioesterase, adipose associated (Thea), mRNA [NM_025590]	NM_025590	1.03944
Mus musculus LALP1 mRNA, complete cds.	AF288221	1.02315
Mus musculus 5-hydroxytryptamine (serotonin) receptor 1D (Htr1d), mRNA [NM_008309]	NM_008309	1.07783
Neuropilin 2	NM_010939	-1.01044
Mus musculus cDNA sequence BC003479 (BC003479), mRNA [NM_145428]	NM_145428	-1.52734
Mus musculus cDNA sequence BC004004 (BC004004), mRNA [NM_030561]	NM_030561	-1.14894
Heat shock factor 2	AK079340	1.07648
Unknown		1.06739
Unknown		1.28303
Mus musculus Vpurinergic receptor P2Y, G-protein coupled 13 (P2ry13), mRNA [NM_028808]	NM_028808	1.02494
Mus musculus POU domain, class 4, transcription factor 2 (Pou4f2), mRNA [NM_138944]	NM_138944	-1.18873
Mus musculus fatty acid binding protein 3, muscle and heart (Fabp3), mRNA [NM_010174]	NM_010174	-1.13772
Mus musculus ferredoxin reductase (Fdxr), mRNA [NM_007997]	NM_007997	1.11997
Expressed sequence AI847670	BC055342	1.03368
Mus musculus cystathionase (cystathionine gamma-lyase) (Cth), mRNA [NM_145953]	NM_145953	-1.2155
Mus musculus neuropeptide Y receptor Y6 (Npy6r), mRNA [NM_010935]	NM_010935	-1.19646
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 3	AK006243	1.02608
Mus musculus lipocalin 4 (Lcn4), mRNA [NM_010695]	NM_010695	1.09463
Mus musculus spectrin beta 4 (Spcb4), mRNA [NM_032610]	NM_032610	1.38873
RIKEN cDNA 4933414I06 gene	AK016812	1.07749
Mus musculus lumican (Lum), mRNA [NM_008524]	NM_008524	-1.10615
Unknown		1.09502
Mus musculus EST AA175286 (AA175286), mRNA [NM_010156]	NM_010156	-1.16894
Solute carrier family 43, member 3	NM_021398	-1.00295
Mus musculus TYRO3 protein tyrosine kinase 3 (Tyro3), mRNA [NM_019392]	NM_019392	-1.03499
Mus musculus RIKEN cDNA 1500026D16 gene (1500026D16Rik), mRNA [NM_026616]	NM_026616	-1.13924
Mus musculus leucine-rich repeat LGI family, member 4 (Lgi4), mRNA [NM_144556]	NM_144556	1.10772
DNA segment, Chr 5, Wayne State University 178, expressed	AK122544	-1.08767
Inositol 1,4,5-triphosphate receptor 3	AK028491	-1.10667
CAA27993.1 unidentified reading frame [NP063612]		-1.01419
Mus musculus transmembrane 4 superfamily member 10 (Tm4sf10), mRNA [NM_138751]	NM_138751	-1.05463
Mus musculus ornithine decarboxylase, structural (Odc), mRNA [NM_013614]	NM_013614	-1.62958
RIKEN cDNA 4921523A10 gene	NM_173449	-1.02095
Mus musculus olfactory receptor 960 (Olfr960), mRNA [NM_146279]	NM_146279	-1.0537
Mus musculus myomesin 2 (Myom2), mRNA [NM_008664]	NM_008664	-1.33022
Mus musculus apolipoprotein F (Apof), mRNA [NM_133997]	NM_133997	1
Mus musculus RIKEN cDNA 3110001K24 gene (3110001K24Rik), mRNA [XM_127674]	XM_127674	1.01017
Adenosine A2a receptor	U05672	-1.05278
Oncostatin M	AK087945	1.10154
RIKEN cDNA 1110033L15 gene	AK013491	-1.10087
Mus musculus H3 histone, family 3A (H3f3a), mRNA [NM_008210]	NM_008210	-1.46245
Mus musculus RIKEN cDNA 1110020P15 gene (1110020P15Rik), mRNA [NM_197979]	NM_197979	-1.13716
HLA-B-associated transcript 3	BC026647	1.24758
RIKEN cDNA 4930519F16 gene	AK015842	1.02382
Mus musculus cytosolic ovarian carcinoma antigen 1 (Cova1), mRNA [NM_145951]	NM_145951	-1.47954
Mus musculus RIKEN cDNA 4933401I19 gene (4933401I19Rik), mRNA [NM_028927]	NM_028927	1.19779
Mus musculus mastermind like 1 (Drosophila) (Maml1), mRNA [NM_175334]	NM_175334	-1.3145
RIKEN cDNA D230024G13 gene	AK084330	-1.04728
Mus musculus small glutamine-rich tetratricopeptide repeat (TPR)-containing, alpha	NM_024499	1.07985
RIKEN cDNA 1700019L03 gene	AK006127	1.1102
Mus musculus adaptor-related protein complex 3, beta 1 subunit (Ap3b1), mRNA [NM_009680]	NM_009680	-1.24124

Mus musculus transmembrane protein induced by tumor necrosis factor alpha (	NM_172541	-1.07497
CDNA sequence BC048507	BC048507	1.53146
WD repeat domain 50	AK078033	-1.09857
Cysteine-rich secretory protein LCCL domain containing 2	NM_030209	1.00191
Mus musculus sema domain, immunoglobulin domain (Ig), transmembrane dom	NM_013659	-1.02178
Mus musculus ATP-binding cassette, sub-family C (CFTR [XM_139262]	XM_139262	-1.07889
Mus musculus mcf.2 transforming sequence-like (Mcf2l), mRNA [NM_178076]	NM_178076	1.09566
Mus musculus RIKEN cDNA 2210409B01 gene (2210409B01Rik), mRNA [NM_	NM_023557	1.06365
Usher syndrome 2A (autosomal recessive, mild) homolog (human)	AF151717	1.09428
Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 2 (Nuc	NM_025539	-1.37852
DNA segment, Chr 19, Wayne State University 12, expressed	AK081674	1.03751
Mus musculus zinc finger protein 198 (Zfp198), mRNA [NM_029498]	NM_029498	-1.46996
Mus musculus olfactory receptor 570 (Olfr570), mRNA [NM_147110]	NM_147110	1.15702
Mus musculus ATPase, class V, type 10A (Atp10a), mRNA [NM_009728]	NM_009728	1.02893
Mus musculus guanine nucleotide binding protein, alpha 13 (Gna13), mRNA [NI	NM_010303	-1.12562
Mus musculus 1-acylglycerol-3-phosphate O-acyltransferase 1 (lysophosphatidi	NM_026644	-1.20237
Mus musculus striatin, calmodulin binding protein (Strn), mRNA [NM_011500]	NM_011500	1.10022
Mus musculus olfactory receptor 1348 (Olfr1348), mRNA [NM_146913]	NM_146913	1.05666
Aga=aspartylglucosaminidase [mice, liver, brain, mRNA Partial, 1191 nt].	S81393	-1.22888
Mus musculus placenta specific homeobox 2 (Psx2), mRNA [NM_023894]	NM_023894	-1.10491
Mus musculus glutamate receptor, ionotropic, AMPA4 (alpha 4) (Gria4), mRNA	NM_019691	-1.02769
RIKEN cDNA 8430411H09 gene	BC024879	-1.06307
RIKEN cDNA 6330441O12 gene	AK040892	-1.06123
Mus musculus glycoprotein hormone beta subunit (Zlut1), mRNA [NM_175644]	NM_175644	-1.0304
Mus musculus ectodysplasin-A (Eda), mRNA [NM_010099]	NM_010099	1.00591
Mus musculus acetyl-Coenzyme A dehydrogenase, long-chain (Acadl), mRNA [	NM_007381	-1.25192
Mus musculus solute carrier family 35, member F3 (Slc35f3), mRNA [NM_1754	NM_175434	1.04909
RNA pseudouridylylate synthase domain containing 4	AK010322	-1.16892
Mus musculus olfactory receptor 1217 (Olfr1217), mRNA [NM_146901]	NM_146901	1.02359
Mus musculus olfactory receptor 800 (Olfr800), mRNA [NM_146548]	NM_146548	1.1097
Mus musculus SMT3 suppressor of mif two 3 homolog 1 (yeast) (Sumo1), mRN	NM_009460	-1.50729
Mus musculus ephrin A2 (Efna2), mRNA [NM_007909]	NM_007909	1.2526
Mus musculus peptidyl prolyl isomerase H (Ppih), mRNA [NM_028677]	NM_028677	-1.18467
Serine/threonine kinase 32A	AK042850	1
Mus musculus ATX1 (antioxidant protein 1) homolog 1 (yeast) (Atox1), mRNA [†	NM_009720	-1.13802
Mus musculus olfactory receptor 1242 (Olfr1242), mRNA [NM_146968]	NM_146968	-1.03201
Mus musculus expressed sequence AU040576 (AU040576), mRNA [NM_1786	NM_178642	-1.08981
Mus musculus RAB17, member RAS oncogene family (Rab17), mRNA [NM_00	NM_008998	1.03345
Mus musculus syntaxin binding protein 1 (Stxbp1), mRNA [NM_009295]	NM_009295	-1.3677
prostatic steroid binding protein C1	NM_054069	1.14828
RIKEN cDNA E130013N09 gene	BC060623	1.04909
hypothetical protein 9130207N01	NM_177605	-1.03991
Mus musculus neuropeptide Y receptor Y2 (Npy2r), mRNA [NM_008731]	NM_008731	1.10723
Mus musculus tyrosine kinase receptor 1 (Tie1), mRNA [NM_011587]	NM_011587	-1.34528
Mus musculus opioid receptor, sigma 1 (Oprs1), mRNA [NM_011014]	NM_011014	1.08879
Mus musculus DNA segment, Chr 6, ERATO Doi 253, expressed (D6Ertd253e),	NM_178608	-1.14497
Mus musculus lymphocyte cytosolic protein 2 (Lcp2), mRNA [NM_010696]	NM_010696	-1.04685
Mus musculus expressed sequence AI326477 (AI326477), mRNA [NM_172891	NM_172891	-1.07919
Mus musculus hairy and enhancer of split 3 (Drosophila) (Hes3), mRNA [NM_0	NM_008237	1.05023
Mus musculus deoxyribonuclease I (Dnase1), mRNA [NM_010061]	NM_010061	1.06462
Mus musculus hypothetical protein A530045M11 (A530045M11), mRNA [NM_1	NM_177674	-1.34227
Mitogen-activated protein kinase kinase kinase 13	AK031500	1.01983

Mus musculus bactericidal/permeability-increasing protein-like 1 (Bpil1), mRNA	NM_025631	1.05099
Mitochondrial carrier triple repeat 1	BC026435	-1.14791
Mus musculus RIKEN cDNA 0710001B24 gene (0710001B24Rik), mRNA [NM_	NM_175118	1.05118
Mus musculus melanoma-derived leucine zipper, extra-nuclear factor (Mlze), mF	NM_031378	1.0858
Mus musculus pancreas specific transcription factor, 1a (Ptf1a), mRNA [NM_01	NM_018809	1.10992
retinol dehydrogenase similar	NM_147222	1.13235
UI-M-AJ0-aax-g-09-0-UI.s2 NIH_BMAP_MOB Mus musculus cDNA clone UI-M-	AI839650	-1.06737
Translocation protein 1	AK016981	1.06767
RIKEN cDNA 6130401L20 gene	AK018073	1.02356
Mus musculus caveolin 3 (Cav3), mRNA [NM_007617]	NM_007617	-1.0597
Mus musculus importin 13 (Ipo13), mRNA [NM_146152]	NM_146152	1.0825
Mus musculus ATPase, H+ transporting, V1 subunit E isoform 1 (Atp6v1e1), mF	NM_007510	-1.28829
Tumor suppressor candidate 3	BC003311	-1.69412
Mus musculus ring finger protein 2 (Rnf2), mRNA [NM_011277]	NM_011277	-1.4423
Mus musculus sorting nexin 3 (Snx3), mRNA [NM_017472]	NM_017472	-1.30125
Mus musculus heat shock protein 1 (chaperonin) (Hspd1), mRNA [NM_010477]	NM_010477	-1.26782
Mus musculus selenoprotein X 1 (Sepx1), mRNA [NM_013759]	NM_013759	-1.12959
RIKEN cDNA 4932442L08 gene	AK016569	-1.02798
Mus musculus similar to TNF-induced protein (LOC244882), mRNA [XM_14699	XM_146997	-1.10147
Mus musculus olfactory receptor 611 (Olfr611), mRNA [NM_146727]	NM_146727	1.17202
Mus musculus RIO kinase 2 (yeast) (Riok2), mRNA [NM_025934]	NM_025934	-1.2345
Mus musculus protein tyrosine phosphatase, non-receptor type 5 (Ptpn5), mRN	NM_013643	1.05069
cholinergic receptor, nicotinic, alpha polypeptide 10	AK033068	-1.01094
Mus musculus protocadherin gamma subfamily A, 7 (Pcdhga7), mRNA [NM_03	NM_033590	1.2224
CDNA sequence BC013672	BC013672	-1.28585
Mus musculus glycine N-methyltransferase (Gnmt), mRNA [NM_010321]	NM_010321	-1.03448
hypothetical protein D330038O06	NM_177899	1.07553
Anaphase promoting complex subunit 10	NM_026904	-1.54296
P21 (CDKN1A)-activated kinase 2	AK019899	1.05829
Mus musculus adaptor-related protein complex AP-1, sigma 3 (Ap1s3), mRNA [	NM_183027	-1.00504
Mus musculus WNT1 inducible signaling pathway protein 2 (Wisp2), mRNA [NM	NM_016873	-1.0006
Mus musculus cDNA sequence BC010801 (BC010801), mRNA [NM_144793]	NM_144793	1.01339
RIKEN cDNA A930010G16 gene	AK020843	-1.21782
RIKEN cDNA 2610016C23 gene	NM_027930	1.01391
Membrane-associated ring finger (C3HC4) 9	BC019560	1.08604
Unknown		1.10629
FGF receptor activating protein 1	NM_145583	1.12868
Mus musculus UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase	NM_054052	1
Mus musculus calcitonin gene-related peptide-receptor component protein (Crcr	NM_007761	-1.15248
Mus musculus RIKEN cDNA B130055D15 gene (B130055D15Rik), mRNA [NM_	NM_178113	-1.20275
Mus musculus src homology 2 domain-containing transforming protein D (Shd),	NM_009168	1.0596
Mus musculus RIKEN cDNA 4833441J24 gene (4833441J24Rik), mRNA [NM_1	NM_133923	1.20038
RIKEN cDNA 2810013P06 gene	AK077895	-1.35651
Mus musculus T-cell specific GTPase (Tgtp), mRNA [NM_011579]	NM_011579	-1.00118
RIKEN cDNA 2210411K11 gene	AK008900	-1.16687
Mus musculus 5'-nucleotidase, cytosolic III (Nt5c3), mRNA [NM_026004]	NM_026004	-1.09267
Breakpoint cluster region homolog	AK129482	1.10701
RIKEN cDNA 4930523C11 gene	AK029742	1.04779
Mus musculus glyoxylate reductase/hydroxypyruvate reductase (Grhpr), mRNA	NM_080289	-1.03011
Mus musculus Cbp/p300-interacting transactivator with Glu/Asp-rich carboxy-ter	NM_007709	1.04697
immunoglobulin kappa light chain variable region Vk23	U55589	-1.10901
Ectonucleotide pyrophosphatase/phosphodiesterase 3	BC006944	-1.00783

Mus musculus ATPase type 13A (Atp13a), mRNA [NM_133224]	NM_133224	1.14405
Mus musculus sterol O-acyltransferase 1 (Soat1), mRNA [NM_009230]	NM_009230	-1.03915
Mus musculus phosphodiesterase 1B, Ca ²⁺ -calmodulin dependent (Pde1b), mRNA [NM_008800]	NM_008800	1.05562
Mus musculus olfactory receptor 1046 (Olfr1046), mRNA [NM_146582]	NM_146582	-1.03127
Mus musculus gene rich cluster, C9 gene (Grcc9), mRNA [NM_013539]	NM_013539	-1.47407
Myeloid/lymphoid or mixed-lineage leukemia 3	AK129377	-1.28748
Mus musculus procollagen, type VII, alpha 1 (Col7a1), mRNA [NM_007738]	NM_007738	-1.01301
Mus musculus protease, serine, 7 (enterokinase) (Prss7), mRNA [NM_008941]	NM_008941	1.05443
Mus musculus sphingomyelin phosphodiesterase, acid-like 3A (Smpd3a), mRNA [NM_020561]	NM_020561	-1.59618
Mus musculus myelin-associated oligodendrocytic basic protein (Mobp), mRNA [NM_008614]	NM_008614	1.30633
M.musculus USF1 (non-coding exon 1).	X95315	-1.04684
Mus musculus centaurin, gamma 3 (Centg3), mRNA [NM_139153]	NM_139153	1.19444
Mus musculus RIKEN cDNA 3110004H13 gene (3110004H13Rik), mRNA [NM_026068]	NM_026068	-1.14138
Mus musculus RIKEN cDNA 4933412E14 gene (4933412E14Rik), mRNA [NM_173778]	NM_173778	1.11577
Mus musculus RIKEN cDNA 2900057D21 gene (2900057D21Rik), mRNA [NM_145221]	NM_145221	-1.27262
Mus musculus 5, 10-methenyltetrahydrofolate synthetase (Mthfs), mRNA [NM_026829]	NM_026829	-1.16926
Mus musculus RIKEN cDNA 9630008K15 gene (9630008K15Rik), mRNA [NM_175651]	NM_175651	1.13624
Mus musculus chromosome condensation 1-like (Chc1), mRNA [NM_134083]	NM_134083	-1.04086
Pregnancy specific glycoprotein 16	U34272	-1.00636
RIKEN cDNA 2510009E07 gene	AK054376	-1.14633
602917037F1 NCI_CGAP_Lu29 Mus musculus cDNA clone IMAGE:5067368 5'	BI151098	1.32134
Mus musculus cytidine monophospho-N-acetylneuraminic acid synthetase (Cmase)	NM_009908	-1.11517
Mus musculus loop tail associated protein (Ltap), mRNA [NM_033509]	NM_033509	1.09556
Mus musculus olfactory receptor 5 (Olfr5), mRNA [NM_146914]	NM_146914	1.08101
Mus musculus cysteinyl-tRNA synthetase (Cars), mRNA [NM_013742]	NM_013742	-1.05568
Mus musculus murinoglobulin 2 (Mug2), mRNA [NM_008646]	NM_008646	1.05664
Mus musculus ATP-binding cassette, sub-family A (ABC1), member 7 (Abca7),	NM_013850	-1.06112
Mus musculus RIKEN cDNA A230063L24 gene (A230063L24Rik), mRNA [NM_176940]	NM_176940	-1.25631
Mus musculus RIKEN cDNA 6030407P20 gene (6030407P20Rik), mRNA [XM_133071]	XM_133071	-1.03533
Mus musculus cysteine-rich protein 3 (Crip3), mRNA [NM_053250]	NM_053250	1.02683
Mus musculus killer cell lectin-like receptor subfamily A, member 20 (Klra20), mRNA [NM_053150]	NM_053150	1.05767
Mus musculus interleukin 22 (Il22), mRNA [NM_016971]	NM_016971	-1.03664
Myotubularin related protein 1	NM_016985	1.02409
16 days embryo head cDNA, RIKEN full-length enriched library, clone:C130075	AK048563	-1.09313
Mus musculus erythroblast membrane-associated protein (Ermap), mRNA [NM_013848]	NM_013848	-1.11659
Mus musculus translocator of inner mitochondrial membrane 17a (Timm17a), mRNA [NM_011590]	NM_011590	-1.3009
Mus musculus RIKEN cDNA D330045A20 gene (D330045A20Rik), mRNA [NM_175326]	NM_175326	-1.00579
Mus musculus gene trap locus F3a (Gtlf3a), mRNA [NM_025293]	NM_025293	-1.18015
Apoptosis, caspase activation inhibitor	AK046479	-1.13943
Mus musculus RIKEN cDNA 2600005N12 gene (2600005N12Rik), mRNA [NM_197995]	NM_197995	-1.08774
Mus musculus RIKEN cDNA 1500004C10 gene (1500004C10Rik), mRNA [NM_023824]	NM_023824	-1.03993
Mus musculus RIKEN cDNA 1700030K09 gene (1700030K09Rik), mRNA [NM_028170]	NM_028170	-1.04988
nuclear cap binding protein subunit 1, 80kDa	BC055777	1.04303
Mus musculus protease (prosome, macropain) 26S subunit, ATPase 1 (Psmc1),	NM_008947	-1.13715
phosphorylated adaptor for RNA export	NM_019996	-1.49686
Mus musculus RIKEN cDNA 2010305C02 gene (2010305C02Rik), mRNA [NM_027249]	NM_027249	1.15926
Mus musculus RIKEN cDNA 5730496E24 gene (5730496E24Rik), mRNA [NM_029398]	NM_029398	-1.25209
Mus musculus polymerase (DNA directed), mu (Polm), mRNA [NM_017401]	NM_017401	-1.09037
Mus musculus laminin B1 subunit 1 (Lamb1-1), mRNA [NM_008482]	NM_008482	-1.30165
Mus musculus defensin beta 1 (Defb1), mRNA [NM_007843]	NM_007843	-1.20061
Mus musculus RIKEN cDNA 1300002F13 gene (1300002F13Rik), mRNA [NM_133753]	NM_133753	-1.22516
RIKEN cDNA 6430511E19 gene	BC027361	-1.66417

Mus musculus phosphodiesterase 3A, cGMP inhibited (Pde3a), mRNA [NM_018181]	NM_018181	1
Mus musculus chemokine (C-C motif) receptor-like 2 (Ccr2), mRNA [NM_017466]	NM_017466	-1.23277
Mus musculus glutamine fructose-6-phosphate transaminase 2 (Gfpt2), mRNA [NM_013529]	NM_013529	1.16828
Mus musculus sema domain, immunoglobulin domain (Ig), short basic domain, s	NM_009152	-1.33281
brain acyl-CoA hydrolase	NM_133348	1.04755
Mus musculus olfactory receptor 1517 (Olfr1517), mRNA [NM_146585]	NM_146585	-1.03009
Mus musculus sodium channel, voltage-gated, type I, beta polypeptide (Scn1b),	NM_011322	1.10532
RIKEN cDNA C130032J12 gene	AK048061	1.02587
Calcium channel, voltage-dependent, L type, alpha 1C subunit	AK016492	1.14103
hypothetical LOC432486	L36434	-1.0124
Glycoprotein 1b, alpha polypeptide	NM_010326	-1.03975
Mus musculus olfactory receptor 694 (Olfr694), mRNA [NM_146452]	NM_146452	1.03958
RIKEN cDNA A730042J05 gene	BC006047	1.00456
Mus musculus ets variant gene 5 (Etv5), mRNA [NM_023794]	NM_023794	1.04275
Mus musculus killer cell lectin-like receptor, subfamily A, member 5 (Klra5), mR	NM_008463	1.04657
Mus musculus histone 1, H1d (Hist1h1d), mRNA [NM_145713]	NM_145713	-1.0419
Mus musculus lysosomal trafficking regulator (Lyst), mRNA [NM_010748]	NM_010748	1.08147
Mus musculus sorting nexin 26 (Snx26), mRNA [NM_178252]	NM_178252	1.21524
RIKEN cDNA 2010204N08 gene	AK008441	1.12657
Adult male urinary bladder cDNA, RIKEN full-length enriched library, clone:9530	AK035306	1.04634
Mus musculus TNFAIP3 interacting protein 2 (Tnip2), mRNA [NM_139064]	NM_139064	1.07
Mus musculus olfactory receptor 614 (Olfr614), mRNA [NM_147100]	NM_147100	1.09714
Mus musculus dystonin (Dst), mRNA [NM_133833]	NM_133833	-1.08684
Mus musculus reelin (Reln), mRNA [NM_011261]	NM_011261	-1.02286
Mus musculus fyn-related kinase (Frk), mRNA [NM_010237]	NM_010237	-1.0203
Mus musculus ATP-binding cassette, sub-family G (WHITE), member 5 (Abcg5)	NM_031884	-1.25235
Mus musculus sphingosine kinase 1 (Sphk1), mRNA [NM_025367]	NM_025367	-1.16017
Mus musculus vomeronasal 1 receptor, C25 (V1rc25), mRNA [NM_134180]	NM_134180	1.08085
Mus musculus immunoglobulin joining chain (Igj), mRNA [NM_152839]	NM_152839	-1.07527
Mus musculus RIKEN cDNA 1300018L09 gene (1300018L09Rik), mRNA [NM_027903]	NM_027903	1
Mus musculus germ cell-specific gene 1 (Gsg1), mRNA [NM_010352]	NM_010352	1.04959
Mus musculus RIKEN cDNA D730040F13 gene (D730040F13Rik), mRNA [NM_175518]	NM_175518	1.06233
Mus musculus DNA segment, Chr 1, ERATO Doi 396, expressed (D1Erttd396e),	NM_021421	-1.5743
Fc receptor, IgG, low affinity III	NM_010188	-1.01686
Mus musculus olfactory receptor 1044 (Olfr1044), mRNA [NM_147011]	NM_147011	1.03749
CDNA sequence BC024683	AK129286	1.1064
Mus musculus phosphatidylinositol glycan, class F (Pigf), mRNA [NM_008838]	NM_008838	-1.31894
hypothetical protein [1110025P21]		-1.1156
RIKEN cDNA 3110043O21 gene	BC026738	-1.22316
SH2 domain containing 4B	NM_177816	-1.05943
Mus musculus reticulon 4 (Rtn4), transcript variant 1, mRNA [NM_194054]	NM_194054	-1.65951
Mus musculus RIKEN cDNA 4932417D18 gene (4932417D18Rik), mRNA [NM_175751]	NM_175751	1.18485
Glutaminase	AK046297	-1.00051
AHNAK nucleoprotein (desmoyokin)	BC039931	1.32457
Mus musculus natriuretic peptide receptor 2 (Npr2), mRNA [NM_173788]	NM_173788	1.12927
Mus musculus tumor necrosis factor (ligand) superfamily, member 14 (Tnfsf14),	NM_019418	1.00916
RIKEN cDNA 1500001L15 gene	BC052790	-1.23421
Mus musculus ropporin 1-like (Ropn1l), mRNA [NM_145852]	NM_145852	-1.35852
Ethanol decreased 2	AK017511	-1.03331
Nephronophthisis 3 (adolescent)	AK048877	-1.09428
Unknown		-1.0099
Mus musculus guanine nucleotide binding protein, alpha transducing 1 (Gnat1),	NM_008140	1.09194

RIKEN cDNA C530028I08 gene	AK082980	-1.04005
Mus musculus expressed sequence AW049829 (AW049829), mRNA [NM_1535NM_153571]		-1.24236
RIKEN cDNA 5031425D22 gene	AK030833	-1.03602
RIKEN cDNA 1810048J11 gene	BC019573	-1.25918
Mus musculus adult retina cDNA, RIKEN full-length enriched library, clone:A93C	AK044500	1.10057
Mus musculus vomeronasal 1 receptor, G3 (V1rg3), mRNA [NM_134204]	NM_134204	1.01796
Mus musculus pre-B-cell leukemia transcription factor interacting protein 1 (Pbxi	NM_146131	-1.01748
Mus musculus calcium channel, voltage-dependent, L type, alpha 1C subunit (C	NM_009781	1.00482
Heterogeneous nuclear ribonucleoprotein F	AK017138	1.1625
Mus musculus olfactory receptor 1258 (Olfr1258), mRNA [NM_146978]	NM_146978	1.05778
Mus musculus RIKEN cDNA 2610511E22 gene (2610511E22Rik), mRNA [NM_	NM_029649	1.02956
Mus musculus histocompatibility 2, class II antigen A, alpha (H2-Aa), mRNA [NM	NM_010378	-1.02588
Mus musculus Janus kinase 1 (Jak1), mRNA [NM_146145]	NM_146145	1.01045
Mus musculus retinoid X receptor interacting protein 110 (Rxrip110), mRNA [NM	NM_011307	-1.13369
Integrin alpha V	BC048857	-1.17531
Mus musculus protein tyrosine phosphatase, receptor type, H (Ptprh), mRNA [N	NM_207270	1.05715
Synaptopodin 2	AK004418	-1.05583
Mus musculus hyaluronan synthase 3 (Has3), mRNA [NM_008217]	NM_008217	1.07705
Mus musculus interleukin 17 receptor E (Il17re), mRNA [NM_145826]	NM_145826	1.10677
Mus musculus SNF1-like kinase (Snf1lk), mRNA [NM_010831]	NM_010831	1.27416
cytokine-dependent hematopoietic cell linker	NM_013748	-1.00353
Mus musculus transmembrane channel-like gene family 5 (Tmc5), mRNA [NM_	NM_028930	1.0495
Mus musculus transcription factor AP-2, delta (Tcfap2d), mRNA [NM_153154]	NM_153154	1.11357
Mus musculus olfactory receptor 174 (Olfr174), mRNA [NM_147002]	NM_147002	1.04785
Mus musculus vomeronasal 1 receptor, H3 (V1rh3), mRNA [NM_134212]	NM_134212	1.10609
Mus musculus DNA primase, p49 subunit (Prim1), mRNA [NM_008921]	NM_008921	-1.36512
Mus musculus gamma-aminobutyric acid (GABA-A) receptor, subunit delta (Gat	NM_008072	1.0753
Mus musculus CD163 antigen (Cd163), mRNA [NM_053094]	NM_053094	-1.53732
Mus musculus RIKEN cDNA 5830427H10 gene (5830427H10Rik), mRNA [NM_	NM_026365	-1.20173
Lymphoid enhancer binding factor 1	AK028246	-1.04915
Uridine-cytidine kinase 2	NM_030724	-1.1559
Protease, serine, 15	AK004820	1.05628
RIKEN cDNA 4930578F03 gene	AK049697	1.00617
Mus musculus forkhead box O1 (Foxo1), mRNA [NM_019739]	NM_019739	1.07696
Synaptopodin 2-like	AK084541	1.14521
Mus musculus tripartite motif protein 37 (Trim37), mRNA [NM_197987]	NM_197987	-1.19836
Thyroid stimulating hormone, beta subunit	AK036251	1.09524
Mus musculus Kruppel-like factor 1 (erythroid) (Klf1), mRNA [NM_010635]	NM_010635	1.09511
Mus musculus Sjogren's syndrome/scleroderma autoantigen 1 homolog (human	NM_020491	1.14922
Mus musculus differentially expressed in B16F10 1 (Deb1), mRNA [NM_026794	NM_026794	-1.10306
Mus musculus hypothetical protein E130320D18 (E130320D18), mRNA [NM_17	NM_172811	1.21211
Mus musculus FEV (ETS oncogene family) (Fev), mRNA [NM_153111]	NM_153111	1.14858
PEST-containing nuclear protein	AK037592	-1.10069
RIKEN cDNA 4921513I03 gene	AK014882	-1.02211
Mus musculus RIKEN cDNA 1600029D21 gene (1600029D21Rik), mRNA [NM_	NM_029639	-1.31695
Mus musculus GLI-Kruppel family member GLI3 (Gli3), mRNA [NM_008130]	NM_008130	1.0959
Mus musculus regulatory factor X, 5 (influences HLA class II expression) (Rfx5),	NM_017395	1.14557
Nebulin	AK086142	1.22706
Mus musculus olfactory receptor 648 (Olfr648), mRNA [NM_146751]	NM_146751	1.06136
Mus musculus 5 hydroxytryptamine (serotonin) receptor 4 (Htr4), mRNA [NM_0	NM_008313	1.03082
Mus musculus taste receptor, type 2, member 105 (Tas2r105), mRNA [NM_020	NM_020501	1.07496
Exosome component 8	AK047257	-1.01707

Mus musculus procollagen, type IX, alpha 1 (Col9a1), mRNA [NM_007740]	NM_007740	1.11675
Clusterin associated protein 1	AK018837	1.08215
Mus musculus prion protein dublet (Prnd), mRNA [NM_023043]	NM_023043	-1.01689
Mus musculus cDNA sequence BC048670 (BC048670), mRNA [NM_183405]	NM_183405	1.02172
C-type lectin domain family 2, member h	NM_053165	-1.05749
Mus musculus RIKEN cDNA 1810019A08 gene (1810019A08Rik), mRNA [NM_027206]	NM_027206	1.03866
Mus musculus RIKEN cDNA C920006C10 gene (C920006C10Rik), mRNA [NM_133766]	NM_133766	-1.05388
Expressed sequence AI850629	BQ178271	-1.03205
Mus musculus RIKEN cDNA 4932411E22 gene (4932411E22Rik), mRNA [NM_172534]	NM_172534	-1.19902
Mus musculus N-myristoyltransferase 1 (Nmt1), mRNA [NM_008707]	NM_008707	-1.01872
Signal peptide peptidase 3	AJ290945	-1.02386
Mus musculus cullin 5 (Cul5), mRNA [NM_027807]	NM_027807	-1.383
Mus musculus G protein-coupled receptor 132 (Gpr132), mRNA [NM_019925]	NM_019925	1.08255
Mus musculus pre-mRNA processing factor 8 (Prpf8), mRNA [NM_138659]	NM_138659	1.15226
RIKEN cDNA 8430428J23 gene	AK018447	1.55298
Mus musculus cytochrome c oxidase subunit II (Cox2) mRNA, complete cds; mitochondrial	AF378830	1.16539
CREB binding protein	AK051071	-1.105
RIKEN cDNA 2610036F08 gene	BC019219	-1.73709
Mus musculus nuclear receptor coactivator 2 (Nco2), mRNA [NM_008678]	NM_008678	1.05803
Transforming, acidic coiled-coil containing protein 2	AB041546	-1.16614
Avian reticuloendotheliosis viral (v-rel) oncogene related B	NM_009046	1.00634
RIKEN cDNA A130001C09 gene	AK079154	1.02737
Mus musculus transmembrane protein with EGF-like and two follistatin-like domains	NM_019790	-1.37105
Unknown		1.00206
Mus musculus fetuin beta (Fetub), mRNA [NM_021564]	NM_021564	-1.15085
Mus musculus transthyretin (Ttr), mRNA [NM_013697]	NM_013697	1.06594
Mus musculus RIKEN cDNA 3230401K02 gene (3230401K02Rik), mRNA [NM_027543]	NM_027543	1.087
Mus musculus leucine-rich repeat-containing G protein-coupled receptor 8 (Lgr8)	NM_080468	1.05487
Mus musculus cofactor required for Sp1 transcriptional activation, subunit 8 (Cr8)	NM_026896	-1.04818
Mus musculus microtubule-associated protein 1 light chain 3 alpha (Map1lc3a),	NM_025735	1.23554
RIKEN cDNA 1700016K13 gene	AK006043	1.13857
Zinc finger protein 217	BC046393	1.06754
Mus musculus coagulation factor VIII (F8), mRNA [NM_007977]	NM_007977	-1.14904
Zinc finger, SWIM domain containing 5	AK016928	1.06998
Mus musculus carnitine palmitoyltransferase 1a, liver (Cpt1a), mRNA [NM_013495]	NM_013495	1.00737
Mus musculus calcium channel, voltage-dependent, gamma subunit 8 (Cacng8)	NM_133190	1.05735
RIKEN cDNA 2610009E16 gene	BC021465	2.32041
Zinc finger protein 191	AK088914	-1.00115
Mus musculus vomeronasal 1 receptor, J3 (V1rj3), mRNA [NM_145847]	NM_145847	1.07649
RIKEN cDNA 1700111E14 gene	AK007169	-1.0063
Zinc finger, CW-type with coiled-coil domain 3	BC026506	-1.30905
Mus musculus REV1-like (S. cerevisiae) (Rev1l), mRNA [NM_019570]	NM_019570	-1.09376
RIKEN cDNA 1700121M21 gene	BC048613	1.06246
Mus musculus LIM motif-containing protein kinase 2 (Limk2), mRNA [NM_010718]	NM_010718	-1.05534
Mus musculus armadillo repeat containing, X-linked 3 (Armxc3), mRNA [NM_027870]	NM_027870	-1.54419
Mus musculus major histocompatibility complex, class I-related (Mr1), mRNA [NM_008209]	NM_008209	-1.04533
Mus musculus methionine sulfoxide reductase B (Mrsb), mRNA [NM_029619]	NM_029619	-1.16286
Mus musculus polycystic kidney disease 2 (Pkd2), mRNA [NM_008861]	NM_008861	-1.21397
Mus musculus sterol regulatory element binding factor 1 (Srebf1), mRNA [NM_011480]	NM_011480	1.05981
RIKEN cDNA C330016K18 gene	AK049140	1.00539
Mus musculus Mediterranean fever (Mefv), mRNA [NM_019453]	NM_019453	1.0025
Mus musculus nitrogen fixation gene 1 (S. cerevisiae) (Nfs1), mRNA [NM_010911]	NM_010911	-1.10307

Mus musculus histocompatibility 2, M region locus 3 (H2-M3), mRNA [NM_013819]	NM_013819	-1.4256
A disintegrin and metalloprotease domain 11	BC054536	-1.06142
Mus musculus v-ral simian leukemia viral oncogene homolog A (ras related) (Rv)	NM_019491	-1.3189
Mus musculus RIKEN cDNA 5930437A14 gene (5930437A14Rik), mRNA [NM_172542]	NM_172542	1.04673
Mus musculus Rho-guanine nucleotide exchange factor (Rgnef), mRNA [NM_012026]	NM_012026	1.08312
AT rich interactive domain 4A (Rbp1 like)	AK087354	1.08594
Gamma-aminobutyric acid (GABA-B) receptor, 1	BC054735	1.05634
Mus musculus ATPase, Cu ⁺⁺ transporting, beta polypeptide (Atp7b), mRNA [NM_007511]	NM_007511	1.18758
Mus musculus RIKEN cDNA 4931440N07 gene (4931440N07Rik), mRNA [NM_201368]	NM_201368	1.22369
RIKEN cDNA 1200003M09 gene	NM_027880	-1.02687
Mus musculus fibroblast growth factor 17 (Fgf17), mRNA [NM_008004]	NM_008004	1.27959
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK007258	AK007258	1.19067
Mus musculus apolipoprotein B (ApoB), mRNA [XM_137955]	XM_137955	1.10543
Mus musculus hydroxysteroid dehydrogenase-2, delta⁵-3-beta (Hsd3b2), mRNA [NM_153193]	NM_153193	-1.09863
Unc-13 homolog A (C. elegans)	AK010728	1.03496
Tousled-like kinase 2 (Arabidopsis)	AK048492	-1.05752
Mus musculus progastricsin (pepsinogen C) (Pgc), mRNA [NM_025973]	NM_025973	1.05302
Mus musculus RIKEN cDNA 0610011B16 gene (0610011B16Rik), mRNA [NM_030205]	NM_030205	-1.08034
Mus musculus Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain (Ctcf), mRNA [NM_010828]	NM_010828	1.00103
Mus musculus myocardin (Myocd), mRNA [NM_146386]	NM_146386	1.14937
Mus musculus cDNA sequence BC018242 (BC018242), mRNA [NM_144935]	NM_144935	1.08966
Mus musculus retinoic acid receptor, alpha (Rara), mRNA [NM_009024]	NM_009024	1.05253
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subunit 1 (SMARCA4), mRNA [AK020092]	AK020092	1.10749
Mus musculus leucine-rich PPR-motif containing (Lrpprc), mRNA [NM_028233]	NM_028233	-1.18779
Mus musculus neuronal PAS domain protein 1 (Npas1), mRNA [NM_008718]	NM_008718	1.06068
Mus musculus bladder cancer associated protein homolog (human) (Blcap), mRNA [NM_016916]	NM_016916	-1.11876
Mus musculus kallikrein 27 (Klk27), mRNA [NM_020268]	NM_020268	1.15781
RNA pseudouridylate synthase domain containing 2	NM_173450	1.37093
Mus musculus zinc finger, SWIM domain containing 1 (Zswim1), mRNA [NM_022802]	NM_022802	-1.19848
Lin 7 homolog a (C. elegans)	AK030326	-1.0571
WD repeat domain 24	NM_173741	1.10229
Unknown		-1.01199
Secretory carrier membrane protein 1	BC002185	-1.34754
RIKEN cDNA 2310050C09 gene	AK009900	1.07127
Serine/threonine kinase 33	AK014819	-1.0891
Adult male testis cDNA, RIKEN full-length enriched library, clone:4930581N16 p	AK076973	1.02663
Calicin	NM_00100278	1.09278
Mus musculus monocyte to macrophage differentiation-associated (Mmd), mRNA [NM_026178]	NM_026178	-1.14065
Mus musculus RIKEN cDNA 2410004L22 gene (2410004L22Rik), mRNA [NM_029621]	NM_029621	1.02453
Mus musculus phospholipase C, beta 3 (Plcb3), mRNA [NM_008874]	NM_008874	-1.07406
Adenylate kinase 5	AK053807	1.07405
Mus musculus patched homolog 2 (Ptch2), mRNA [NM_008958]	NM_008958	1.04179
Mus musculus RIKEN cDNA 1700018B08 gene (1700018B08Rik), mRNA [NM_029597]	NM_029597	1.04282
Mus musculus serine (or cysteine) proteinase inhibitor, clade I, member 1 (Serpin1), mRNA [NM_026460]	NM_026460	1.1921
Mus musculus RIKEN cDNA 4932411A10 gene (4932411A10Rik), mRNA [NM_177719]	NM_177719	1.18833
Mus musculus ubiquitin-conjugating enzyme E2S (Ube2s), mRNA [NM_133777]	NM_133777	-1.43641
Mus musculus seminal vesicle protein 2 (Svp2), mRNA [NM_009300]	NM_009300	1.00335
Mus musculus recombination activating gene 1 (Rag1), mRNA [NM_009019]	NM_009019	-1.04697
Mus musculus protein kinase, cAMP dependent regulatory, type I beta (Prkar1b), mRNA [NM_008923]	NM_008923	1.03011
Mus musculus solute carrier family 6 (neurotransmitter transporter, serotonin), member 1 (Slc6a4), mRNA [NM_010484]	NM_010484	1.02553
Mus musculus leucine-rich repeat-containing 6 (testis) (Lrrc6), mRNA [NM_019457]	NM_019457	1.00419
Mus musculus procollagen, type XVI, alpha 1 (Col16a1), mRNA [NM_028266]	NM_028266	-1.09497

Src homology 2 domain-containing transforming protein C2	AK032878	1.09428
Mus musculus interferon regulatory factor 2 (Irf2), mRNA [NM_008391]	NM_008391	-1.74115
Mus musculus RIKEN cDNA 1200013B22 gene (1200013B22Rik), mRNA [NM_028778]	NM_028778	1.09165
Kinesin family member 16A	AB001425	-1.13187
Mus musculus inositol polyphosphate-5-phosphatase B (Inpp5b), mRNA [NM_008385]	NM_008385	-1.04265
Mus musculus RIKEN cDNA 5630400M01 gene (5630400M01Rik), mRNA [NM_027796]	NM_027796	-1.00545
Mus musculus gap junction membrane channel protein alpha 5 (Gja5), mRNA [NM_008121]	NM_008121	1.0528
Unknown		-1.27529
CDNA sequence BC018507	AK129244	-1.10832
Mus musculus sperm autoantigenic protein 17 (Spa17), mRNA [NM_011449]	NM_011449	-1.7565
Mus musculus N-acetyltransferase 2 (arylamine N-acetyltransferase) (Nat2), mRNA [NM_010874]	NM_010874	-1.22084
Mus musculus myosin IG (Myo1g), mRNA [NM_178440]	NM_178440	-1.00935
Mus musculus RIKEN cDNA 2310045A20 gene (2310045A20Rik), mRNA [NM_172710]	NM_172710	-1.10591
Mus musculus outer dense fiber of sperm tails 1 (Odf1), mRNA [NM_008757]	NM_008757	1.07782
Mus musculus 13 days embryo head cDNA, RIKEN full-length enriched library, clone AK013921	AK013921	-1.47703
Mus musculus splicing factor 3a, subunit 2 (Sf3a2), mRNA [NM_013651]	NM_013651	-1.09205
Mus musculus olfactory receptor 157 (Olfr157), mRNA [NM_019475]	NM_019475	1.11883
amphoterin induced gene and ORF 3	NM_177275	1.0914
Xylulokinase homolog (H. influenzae)	BC026406	-1.30359
Mus musculus hyperpolarization-activated, cyclic nucleotide-gated K+ 3 (Hcn3), mRNA [NM_008227]	NM_008227	1.16894
Mus musculus 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (Hmgcs1), mRNA [NM_145942]	NM_145942	-1.53135
UTP14, U3 small nucleolar ribonucleoprotein, homolog B (yeast)	AK012088	-1.21926
Mus musculus granzyme B (Gzmb), mRNA [NM_013542]	NM_013542	1.08483
RIKEN cDNA G630013P12 gene	AK090184	1.21934
Mus musculus RIKEN cDNA 2610027O18 gene (2610027O18Rik), mRNA [NM_029580]	NM_029580	-1.35154
Mus musculus nuclear antigen Sp100 (Sp100), mRNA [NM_013673]	NM_013673	-1.13339
hypothetical protein 4932436B18	AK030081	-1.0695
Mus musculus pleckstrin homology domain containing, family F (with FYVE domain) (Pleckstrin homology domain containing, family F (with FYVE domain)), mRNA [NM_175175]	NM_175175	-1.17235
RIKEN cDNA 5730510P18 gene	AK017761	-1.01812
RAB11 family interacting protein 3 (class II)	AB093257	-1.03716
Kinesin family member 1C	BC016221	-1.45674
Mus musculus expressed sequence AI326906 (AI326906), mRNA [NM_153570]	NM_153570	1.08243
Mus musculus cDNA sequence BC006705 (BC006705), mRNA [NM_145404]	NM_145404	-1.19819
Mus musculus protein tyrosine phosphatase, non-receptor type 4 (Ptpn4), mRNA [NM_019933]	NM_019933	1.03109
UI-M-AJ0-aax-g-12-0-UI.s2 NIH_BMAP_MOB Mus musculus cDNA clone UI-M-AI839651	AI839651	1.10762
RIKEN cDNA 3200002M19 gene	AK018169	1.09091
Mus musculus olfactory receptor 749 (Olfr749), mRNA [NM_020288]	NM_020288	1.0845
Mus musculus heat shock protein family, member 7 (cardiovascular) (Hspb7), mRNA [NM_013868]	NM_013868	-1.14802
Mus musculus platelet-activating factor acetylhydrolase, isoform 1b, alpha2 subunit (PAFAC1b), mRNA [NM_008775]	NM_008775	-1.23807
Mus musculus cyclin-dependent kinase (CDC2-like) 10 (Cdk10), transcript variant 1, mRNA [NM_194446]	NM_194446	-1.24254
RIKEN cDNA 1810049O03 gene	AK007851	1.01994
RIKEN cDNA C630007L23 gene	AK049893	-1.03051
Mus musculus olfactory receptor 402 (Olfr402), mRNA [NM_146708]	NM_146708	-1.00604
Mus musculus doublesex and mab-3 related transcription factor 2 (Dmrt2), mRNA [NM_145831]	NM_145831	-1.04385
Mus musculus S100 protein, beta polypeptide, neural (S100b), mRNA [NM_009091]	NM_009091	-1.07197
DEAD (Asp-Glu-Ala-Asp) box polypeptide 27	BC011321	-1.01972
Mus musculus zinc finger protein 30 (Zfp30), mRNA [NM_013705]	NM_013705	-1.09878
Mus musculus matrix metalloproteinase 8 (Mmp8), mRNA [NM_008611]	NM_008611	-1.41146
Mus musculus DNA segment, Chr 11, KL Mohlke 35 (D11Moh35), mRNA [NM_172300]	NM_172300	1.02623
Mus musculus cDNA sequence BC023882 (BC023882), mRNA [NM_146159]	NM_146159	-1.16535
Mus musculus ATP-binding cassette, sub-family D (ALD), member 4 (Abcd4), mRNA [NM_008992]	NM_008992	1.11244
Mus musculus ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c, isoform 1, mRNA [NM_009725]	NM_009725	-1.67531

Mus musculus membrane-bound transcription factor protease, site 1 (Mbtps1), r	NM_019709	-1.25851
Mitogen-activated protein kinase associated protein 1	BC048870	1.13065
Mus musculus small proline-rich protein 2H (Sprr2h), mRNA [NM_011474]	NM_011474	-1.00362
Mus musculus tumor necrosis factor receptor superfamily, member 19 (Tnfrsf19)	NM_013869	-1.17027
L1 repeat, Tf subfamily, member 30	AK035032	1.19697
Mus musculus interleukin 5 (Il5), mRNA [NM_010558]	NM_010558	1.0395
RIKEN cDNA 2310043D08 gene	AK017750	1.03957
Mus musculus similar to nuclear protein, 25K - mouse (LOC223706), mRNA [NM_145474]	NM_145474	1.14178
RIKEN cDNA 1700021C14 gene	AK006195	1.16963
Mus musculus RIKEN cDNA 0610009J22 gene (0610009J22Rik), mRNA [NM_027859]	NM_027859	-1.12162
Hypothetical protein D230005K13	AK029066	1.34941
Mus musculus olfactory receptor 859 (Olfr859), mRNA [NM_146526]	NM_146526	1.07964
Adult male testis cDNA, RIKEN full-length enriched library, clone:4932438E20 p	AK077046	1.03484
Mus musculus RIKEN cDNA 2610031L17 gene (2610031L17Rik), mRNA [NM_133701]	NM_133701	1.10348
Mus musculus serine protease inhibitor, Kazal type 3 (Spink3), mRNA [NM_009258]	NM_009258	-1.02911
Mus musculus scavenger receptor class F, member 2 (Scarf2), mRNA [NM_153790]	NM_153790	1.07282
Mus musculus RIKEN cDNA 4632415K11 gene (4632415K11Rik), mRNA [NM_028883]	NM_028883	1.02205
Mus musculus protamine 2 (Prm2), mRNA [NM_008933]	NM_008933	1.02677
Mus musculus F-box only protein 18 (Fbxo18), mRNA [NM_015792]	NM_015792	-1.05135
Mus musculus RIKEN cDNA 4932442K20 gene (4932442K20Rik), mRNA [NM_178854]	NM_178854	1.05527
Mus musculus cystin 1 (Cys1), mRNA [NM_138686]	NM_138686	-1.22417
Olfactory receptor 22, pseudogene 1	X89687	1.01825
Ubiquitination factor E4A, UFD2 homolog (S. cerevisiae)	BC025043	-1.1602
Mus musculus neuregulin 3 (Nrg3), mRNA [NM_008734]	NM_008734	1.28351
Mus musculus cDNA sequence BC008163 (BC008163), mRNA [NM_145553]	NM_145553	1.12313
DNA segment, Chr 5, ERATO Doi 135, expressed	AK088165	-1.15823
CDNA sequence BC034507	AK037413	-1.03141
Mus musculus RIKEN cDNA 2810405J04 gene (2810405J04Rik), mRNA [NM_133747]	NM_133747	-1.08081
WAS protein family, member 2	AK035717	-1.33101
Mus musculus cleavage stimulation factor, 3' pre-RNA subunit 2 (Cstf2), mRNA	NM_133196	1.16278
RIKEN cDNA 1700123I01 gene	AK007250	-1.07028
Mus musculus Rab6 interacting protein 2 (Rab6ip2), mRNA [NM_053204]	NM_053204	1.05044
CDNA sequence BC004701	AK081756	1.07121
Mus musculus RIKEN cDNA 4930568P13 gene (4930568P13Rik), mRNA [NM_153505]	NM_153505	-1.22205
Expressed sequence AI317237	AB093297	1.11694
601774227F1 NCI_CGAP_Lu29 Mus musculus cDNA clone IMAGE:3994759 5' BF167521	BF167521	1.16163
Mus musculus adult male olfactory brain cDNA, RIKEN full-length enriched libra	AK032544	1.02947
Mus musculus signal transducer and activator of transcription 4 (Stat4), mRNA [NM_011487]	NM_011487	-1.10024
Mus musculus ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit	NM_138597	-1.36719
Mus musculus proteasome (prosome, macropain) 28 subunit, 3 (Psme3), mRNA [NM_011192]	NM_011192	1.04983
Mus musculus otoraplin (Otor), mRNA [NM_020595]	NM_020595	1.06545
WW domain containing transcription regulator 1	AK014334	-1.01767
per-pentamer repeat gene	NM_012022	1.19909
Mus musculus elongation protein 3 homolog (S. cerevisiae) (Elp3), mRNA [NM_028811]	NM_028811	-1.03374
Expressed sequence AI316828	BC057363	-1.15684
Follicular lymphoma variant translocation 1	BC023820	-1.23836
Mus musculus RIKEN cDNA 9530043G02 gene (9530043G02Rik), mRNA [NM_175426]	NM_175426	1.02937
Atpase, class I, type 8B, member 2	AF156546	-1.11195
Mus musculus solute carrier family 2, (facilitated glucose transporter), member 8	NM_019488	1.09787
Mus musculus zinc finger protein 521 (Zfp521), mRNA [NM_145492]	NM_145492	-1.36302
Mus musculus proteasome (prosome, macropain) 26S subunit, non-ATPase, 5 (Psmg5)	NM_080554	-1.23051
Transformation/transcription domain-associated protein	BC029023	1.05283

Mus musculus RIO kinase 3 (yeast) (Riok3), mRNA [NM_024182]	NM_024182	-1.10026
Nucleoporin 205	AK014419	1.04192
Mus musculus adult retina cDNA, RIKEN full-length enriched library, clone:A930AK020867	AK020867	1.06711
Mus musculus thyroid hormone responsive SPOT14 homolog (Rattus) (Thrsp), mRNA [NM_009381]	NM_009381	-1.07051
Mus musculus RAN guanine nucleotide release factor (Rangrnf), mRNA [NM_021329]	NM_021329	-1.01017
Mus musculus RIKEN cDNA C730032N17 gene (C730032N17Rik), mRNA [NM_144836]	NM_144836	1.04542
Mus musculus glycerol kinase (Gyk), transcript variant 1, mRNA [NM_008194]	NM_008194	-1.06145
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:AK006780	AK006780	1.03223
RIKEN cDNA A230057D06 gene	AK030614	-1.00425
Mus musculus RIKEN cDNA 5730457F11 gene (5730457F11Rik), mRNA [NM_172935]	NM_172935	-1.13231
Suppressor of variegation 3-9 homolog 2 (Drosophila)	NM_022724	-1.02158
Mus musculus mannosidase 1, alpha (Man1a), mRNA [NM_008548]	NM_008548	-1.06088
Mus musculus CD3 antigen, epsilon polypeptide (Cd3e), mRNA [NM_007648]	NM_007648	1.22242
Mus musculus steroid receptor RNA activator 1 (Sra1), mRNA [NM_025291]	NM_025291	-1.03784
Mus musculus synaptophysin-like protein (Sypl), transcript variant 1, mRNA [NM_013635]	NM_013635	-1.86096
Mus musculus tumor necrosis factor receptor superfamily, member 9 (Tnfrsf9), mRNA [NM_011612]	NM_011612	1.04053
Pleckstrin homology, Sec7 and coiled/coil domains 4	BC018505	1.07521
Mus musculus regulator of G-protein signaling 16 (Rgs16), mRNA [NM_011267]	NM_011267	-1.01711
RIKEN cDNA 4930562A09 gene	AK016187	-1.04274
Mus musculus T-box 10 (Tbx10), mRNA [NM_001001320]	NM_001001320	1.03746
Mus musculus CREBBP/EP300 inhibitory protein 1 (Cri1), mRNA [NM_025613]	NM_025613	-1.65886
Mus musculus RIKEN cDNA A230102I05 gene (A230102I05Rik), mRNA [NM_146179]	NM_146179	1.0602
RIKEN cDNA 4930467M19 gene	AK014551	1.08671
Mus musculus sterile alpha motif domain containing 10 (Samd10), mRNA [NM_172676]	NM_172676	1.15125
Mus musculus leupaxin (Lpxn), mRNA [NM_134152]	NM_134152	-1.05568
Mus musculus cysteine-rich with EGF-like domains 1 (Creld1), mRNA [NM_133930]	NM_133930	1.1642
Mus musculus alpha disintegrin and metalloproteinase domain 12 (meltrin alpha) (Adam12), mRNA [NM_007400]	NM_007400	1.04054
Mus musculus ubiquitin 1 (Ubqln1), transcript variant 2, mRNA [NM_152234]	NM_152234	-1.04316
RIKEN cDNA 2610528A17 gene	AK012159	-1.27753
prolactin like protein I	NM_025896	1.05345
RIKEN cDNA 1300002K09 gene	AK050152	1.04483
RIKEN cDNA 1810029C22 gene	BC052782	-1.06925
Open reading frame 34	BC025887	1.08643
Mus musculus peptidylglycine alpha-amidating monooxygenase (Pam), mRNA [NM_013626]	NM_013626	1.43731
Mus musculus alpha disintegrin and metalloprotease domain 33 (Adam33), mRNA [NM_033615]	NM_033615	-1.00255
Succinate-Coenzyme A ligase, GDP-forming, beta subunit	AF058956	-1.21474
Mus musculus secretory carrier membrane protein 3 (Scamp3), mRNA [NM_011886]	NM_011886	1.11688
Mus musculus angiopoietin-like 1 (Angptl1), mRNA [NM_028333]	NM_028333	1.06159
10 days neonate skin cDNA, RIKEN full-length enriched library, clone:4732471AK028934	AK028934	-1.10784
Mus musculus proprotein convertase subtilisin/kexin type 9 (Pcsk9), mRNA [NM_153565]	NM_153565	1.06172
Mus musculus praja 2, RING-H2 motif containing (Pja2), mRNA [NM_144859]	NM_144859	-1.06385
Mus musculus RIKEN cDNA 9430079M16 gene (9430079M16Rik), mRNA [NM_175414]	NM_175414	-1.15738
Tumor differentially expressed 1	AK002842	-1.04011
Mus musculus expressed sequence AU016977 (AU016977), mRNA [NM_175016]	NM_175016	1.01643
Mus musculus keratin associated protein 5-4 (Krtap5-4), mRNA [NM_015809]	NM_015809	1.03886
Mus musculus regulator of G-protein signaling 1 (Rgs1), mRNA [NM_015811]	NM_015811	-1.04006
CD3 antigen, zeta polypeptide	NM_031162	1.0476
Mus musculus RIKEN cDNA 1700019G17 gene (1700019G17Rik), mRNA [NM_029331]	NM_029331	1.06026
Mus musculus NADH dehydrogenase (ubiquinone) Fe-S protein 5 (Ndufs5), mRNA [NM_134104]	NM_134104	-1.08923
RIKEN cDNA 4933407C03 gene	AK016712	1.24319
Mus musculus solute carrier family 30 (zinc transporter), member 4 (Slc30a4), mRNA [NM_011774]	NM_011774	-1.22271
Mus musculus cell death-inducing DNA fragmentation factor, alpha subunit-like 1 (Cid1), mRNA [NM_007702]	NM_007702	-1.33849

Mus musculus peroxiredoxin 1 (Prdx1), mRNA [NM_011034]	NM_011034	-1.70799
Mus musculus ankyrin repeat and SOCS box-containing protein 6 (Asb6), mRNA [NM_133346]	NM_133346	-1.03893
RIKEN cDNA D130043K22 gene	AK122246	1.19492
Mus musculus peroxisomal trans-2-enoyl-CoA reductase (Pecr), mRNA [NM_0223523]	NM_0223523	-1.00357
Mus musculus RIKEN cDNA 2210009G21 gene (2210009G21Rik), mRNA [NM_028834]	NM_028834	1.10332
Mus musculus RIKEN cDNA B230114J08 gene (B230114J08Rik), mRNA [NM_030018]	NM_030018	-1.38148
Mus musculus mitogen-activated protein kinase 7 (Mapk7), mRNA [NM_011841]	NM_011841	-1.21517
Mus musculus interleukin 17 receptor B (Il17rb), mRNA [NM_019583]	NM_019583	1.11062
Solute carrier family 24 (sodium/potassium/calcium exchanger), member 2	AK045603	1.11162
Mus musculus RIKEN cDNA 1300017J02 gene (1300017J02Rik), mRNA [NM_027918]	NM_027918	1.03862
Mus musculus RIKEN cDNA 4921507P07 gene (4921507P07Rik), mRNA [NM_027564]	NM_027564	-1.02022
Mus musculus adult male pituitary gland cDNA, RIKEN full-length enriched library	AK019934	1.02572
Mus musculus replication factor C 1 (Recc1), mRNA [NM_011258]	NM_011258	-1.19857
Mus musculus expressed sequence AI586015 (AI586015), mRNA [NM_019992]	NM_019992	-1.38993
Mus musculus RIKEN cDNA 1110021N19 gene (1110021N19Rik), mRNA [NM_020519]	NM_020519	-1.08914
Mus musculus ATPase, class VI, type 11A (Atp11a), mRNA [NM_015804]	NM_015804	1.02922
RIKEN cDNA 4631427C17 gene	AK079839	1.08669
Mus musculus golgi associated PDZ and coiled-coil motif containing (Gopc), mRNA [NM_053187]	NM_053187	-1.07882
Mus musculus olfactory receptor 521 (Olfr521), mRNA [NM_146356]	NM_146356	1.07622
hypothetical protein E230019M04	NM_177921	1.04462
Mus musculus A kinase (PRKA) anchor protein (yotiao) 9 (Akap9), mRNA [NM_194462]	NM_194462	-1.02762
Mus musculus breast carcinoma amplified sequence 3 (Bcas3), mRNA [NM_138681]	NM_138681	-1.20408
Mus musculus olfactory receptor 1020 (Olfr1020), mRNA [NM_146580]	NM_146580	-1.17816
Mus musculus interleukin 18 (Il18), mRNA [NM_008360]	NM_008360	-1.02617
CD36 antigen	L23108	-1.53975
Mus musculus nephrosis 1 homolog, nephrin (human) (Nphs1), mRNA [NM_019459]	NM_019459	1.08515
Mus musculus carbonic anhydrase 3 (Car3), mRNA [NM_007606]	NM_007606	1.04538
Mus musculus seminal vesicle protein, secretion 2 (Svs2), mRNA [NM_017390]	NM_017390	-1.01954
Mus musculus prostaglandin E receptor 2 (subtype EP2) (Ptger2), mRNA [NM_008964]	NM_008964	-1.35784
RIKEN cDNA 4933402E13 gene	AK016614	-1.01871
Ataxia telangiectasia and rad3 related	AF236887	-1.24298
RIKEN cDNA 5033403J15 gene	AK017149	-1.11496
Mus musculus histidyl-tRNA synthetase-like (Harsl), mRNA [NM_080636]	NM_080636	1.05648
Mus musculus interleukin 6 (Il6), mRNA [NM_031168]	NM_031168	1.11531
Immunoglobulin heavy chain 6 (heavy chain of IgM)	L22886	1.04016
Mus musculus RIKEN cDNA 4930444A02 gene (4930444A02Rik), mRNA [NM_029037]	NM_029037	1.08303
Mus musculus 5'-nucleotidase, cytosolic IB (Nt5c1b), mRNA [NM_027588]	NM_027588	1.04233
Pleckstrin homology domain containing, family A member 6	AK020645	1.01336
Neurotrophic tyrosine kinase, receptor, type 1	AK081588	1.05928
Mus musculus RIKEN cDNA 3110018K12 gene (3110018K12Rik), mRNA [XM_129857]	XM_129857	1.25286
Mus musculus adenosine A1 receptor (Adora1), mRNA [NM_009629]	NM_009629	1.0834
Unknown		-1.06256
Mus musculus interferon gamma inducible protein (Ifi47), mRNA [NM_008330]	NM_008330	-1.31927
Mus musculus DNA (cytosine-5-)-methyltransferase 3-like (Dnmt3l), mRNA [NM_019448]	NM_019448	1.07081
Mus musculus phosphodiesterase 7B (Pde7b), mRNA [NM_013875]	NM_013875	1.05574
Mus musculus piggyBac transposable element derived 5 (Pgbd5), mRNA [NM_171824]	NM_171824	1.09627
Mus musculus stefin A1 (Stfa1), mRNA [NM_001001332]	NM_001001332	-1.3961
603305916F1 NCI_CGAP_Mam4 Mus musculus cDNA clone IMAGE:5351666	BI662359	-1.04963
Mus musculus calcium/calmodulin-dependent protein kinase II, delta (Camk2d), mRNA [NM_023813]	NM_023813	1.05896
Mus musculus interleukin 1 family, member 6 (Il1f6), mRNA [NM_019450]	NM_019450	-1.08724
Mus musculus importin 11 (Ipo11), mRNA [NM_029665]	NM_029665	-1.31226
RIKEN cDNA E330038N15 gene	AK054538	1.10787

Titin	AK045498	-1.33428
RIKEN cDNA 5730478M09 gene	AK039905	-1.24244
Mus musculus neurocalcin delta (Ncald), mRNA [NM_134094]	NM_134094	1.04676
Mus musculus retinoic acid induced 14 (Rai14), mRNA [NM_030690]	NM_030690	-1.22855
Mus musculus transforming growth factor, beta 3 (Tgfb3), mRNA [NM_009368]	NM_009368	-1.16491
Mus musculus Tnf receptor-associated factor 1 (Traf1), mRNA [NM_009421]	NM_009421	-1.22328
Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 14c (Ppp1r1)	NM_133485	-1.08669
Mus musculus zinc finger protein 95 (Zfp95), mRNA [NM_016683]	NM_016683	-1.06056
Mus musculus transducin-like enhancer of split 4, homolog of Drosophila E(spl)	NM_011600	-1.61597
Mus musculus carnitine palmitoyltransferase 1b, muscle (Cpt1b), mRNA [NM_009948]	NM_009948	1.03219
Mus musculus RIKEN cDNA 9030221M09 gene (9030221M09Rik), mRNA [NM_177298]	NM_177298	-1.33088
RIKEN cDNA 4633402D15 gene	AK085701	-1.03479
Mus musculus brix domain containing 1 (Bxdc1), mRNA [NM_023323]	NM_023323	-1.35921
RIKEN cDNA 4933411B09 gene	AK016764	-1.05042
CDNA sequence BC039282	AK040284	1.00298
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK006831	AK006831	1.02704
Mus musculus RIKEN cDNA D930036B08 gene (D930036B08Rik), mRNA [NM_198649]	NM_198649	1.10583
RIKEN cDNA 4933404M02 gene	AK017113	-1.02962
Mus musculus serum amyloid A 3 (Saa3), mRNA [NM_011315]	NM_011315	-1.44019
Mus musculus RIKEN cDNA 4930584N22 gene (4930584N22Rik), mRNA [NM_026654]	NM_026654	-1.25011
Mus musculus vomeronasal 1 receptor, C12 (V1rc12), mRNA [NM_134167]	NM_134167	1.10443
Mus musculus ADP-ribosylation factor-like 3 (Arl3), mRNA [NM_019718]	NM_019718	-1.60433
Mus musculus procollagen, type XIV, alpha 1 (Col14a1), mRNA [NM_181277]	NM_181277	-1.13674
Sidekick homolog 2 (chicken)	AK052040	1.11562
Splicing factor, arginine/serine-rich 15	BC057592	1.06033
Mus musculus sideroflexin 3 (Sfxn3), mRNA [NM_053197]	NM_053197	-1.03582
Integral inner nuclear membrane protein MAN1	BQ713828	-1.31187
Mus musculus vomeronasal 1 receptor, E1 (V1re1), mRNA [NM_134190]	NM_134190	1.0712
TRNA splicing endonuclease 2 homolog (SEN2, S. cerevisiae)	AK044190	-1.03948
Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 1	NM_172371	-1.07988
Mus musculus Rhesus blood group-associated A glycoprotein (Rhag), mRNA [NM_011269]	NM_011269	1.0467
Mus musculus RIKEN cDNA 2610005H11 gene (2610005H11Rik), mRNA [NM_028106]	NM_028106	1.10731
Mus musculus RIKEN cDNA C130099A20 gene (C130099A20Rik), mRNA [NM_153420]	NM_153420	1.02617
Zinc finger protein 236	AK041130	-1.30163
Mus musculus protein kinase, lysine deficient 1 (Prkwnk1), mRNA [NM_198703]	NM_198703	1.15984
Mus musculus G protein-coupled receptor 61 (Gpr61), mRNA [NM_175470]	NM_175470	1.11185
Mus musculus protein tyrosine phosphatase, non-receptor type 12 (Ptpn12), mRNA [NM_011203]	NM_011203	-1.38946
Mus musculus colony stimulating factor 1 receptor (Csf1r), mRNA [NM_007779]	NM_007779	1.18275
Mus musculus nuclear VCP-like (Nvl), mRNA [NM_026171]	NM_026171	-1.09666
Mus musculus protein kinase, cAMP dependent regulatory, type II alpha (Prkar2)	NM_008924	-1.078
Mus musculus sprouty protein with EVH-1 domain 1, related sequence (Spred1)	NM_033524	1
Gap junction membrane channel protein alpha 8	NM_008123	1.05892
Mus musculus mitogen activated protein kinase 1 (Mapk1), mRNA [NM_011949]	NM_011949	-1.30121
Mus musculus RIKEN cDNA 4632413K17 gene (4632413K17Rik), mRNA [NM_177614]	NM_177614	-1.04298
Mus musculus leukocyte receptor cluster (LRC) member 8 (Leng8), mRNA [NM_172736]	NM_172736	-1.0299
RIKEN cDNA 3110005G23 gene	AK013998	-1.00706
Mus musculus protein tyrosine phosphatase 4a2 (Ptp4a2), mRNA [NM_008974]	NM_008974	1.08789
Mus musculus RIKEN cDNA 4732467L16 gene (4732467L16Rik), mRNA [NM_177667]	NM_177667	-1.06404
Calcium/calmodulin-dependent protein kinase kinase 1, alpha	NM_018883	-1.16576
Choroideremia-like	NM_021350	-1.04442
Mus musculus RIKEN cDNA 4631426G04 gene (4631426G04Rik), mRNA [NM_178404]	NM_178404	1.04344
Mus musculus keratin associated protein 16-8 (Krtap16-8), mRNA [NM_130856]	NM_130856	1.00618

RIKEN cDNA 4930572I07 gene	AK029808	-1.0834
RIKEN cDNA 4930429H24 gene	AK004187	-1.24031
Mus musculus granzyme A (Gzma), mRNA [NM_010370]	NM_010370	-1.31541
Mus musculus neuritin 1 (Nrn1), mRNA [NM_153529]	NM_153529	-1.02691
Serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin, alpha-1-antitrypsin)	AK050552	1.12006
RIKEN cDNA 5033428A16 gene	BC018498	-1.42027
Mus musculus exostoses (multiple)-like 3 (Extl3), mRNA [NM_018788]	NM_018788	-1.63333
Mus musculus tripartite motif protein 10 (Trim10), mRNA [NM_011280]	NM_011280	1.00889
Mus musculus RIKEN cDNA 2810457M08 gene (2810457M08Rik), mRNA [NM_172284]	NM_172284	1.0066
Mus musculus growth arrest and DNA-damage-inducible, gamma interacting protein 1 (Gadd45), mRNA [NM_183358]	NM_183358	1.08414
RIKEN cDNA 5630401D06 gene	AK032988	-1.10614
C-type lectin domain family 2, member g	NM_027562	1.02471
Mus musculus minichromosome maintenance deficient 8 (S. cerevisiae) (Mcm8), mRNA [NM_025676]	NM_025676	-1.04366
Caspase 11, apoptosis-related cysteine protease	NM_007609	-1.17452
Mus musculus folic polyglutamyl synthetase (Fpgs), mRNA [NM_010236]	NM_010236	-1.04073
Mus musculus glucose regulated protein (Grp58), mRNA [NM_007952]	NM_007952	-1.46669
Mus musculus cell cycle related kinase (Ccrk), mRNA [NM_053180]	NM_053180	1.05846
proline rich protein MP4	NM_053251	1.08207
Mus musculus CD164 antigen (Cd164), mRNA [NM_016898]	NM_016898	-1.33235
Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetyltransferase 1 (Uga1), mRNA [NM_172855]	NM_172855	1.11266
Mus musculus RIKEN cDNA 1110014J01 gene (1110014J01Rik), mRNA [NM_029101]	NM_029101	1.16409
M-phase phosphoprotein 1	AY259532	1.03977
Mus musculus Cobl-like 1 (Cobl1), mRNA [NM_177025]	NM_177025	1.06596
RIKEN cDNA 5330408N05 gene	AK030411	-1.02983
Mus musculus olfactory receptor 113 (Olfr113), mRNA [NM_146289]	NM_146289	1.04317
Mus musculus ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c	NM_026468	-1.09536
Mus musculus leptin receptor overlapping transcript-like 1 (Leprotl1), mRNA [NM_026609]	NM_026609	-1.25064
F-box protein 40	AK036684	1.17002
RIKEN cDNA 1700023E05 gene	BC053422	1.13634
RIKEN cDNA 5530401N12 gene	AK017439	1.11786
Mus musculus hydroxysteroid (17-beta) dehydrogenase 1 (Hsd17b1), mRNA [NM_010475]	NM_010475	1.00427
Mus musculus olfactory receptor 399 (Olfr399), mRNA [NM_147004]	NM_147004	1.11382
Mus musculus calcium/calmodulin-dependent protein kinase I gamma (Camk1g), mRNA [NM_144817]	NM_144817	1.09403
Mus musculus follistatin (Fst), mRNA [NM_008046]	NM_008046	1.1634
Mus musculus alpha disintegrin and metalloproteinase domain 1a (Adam1a), mRNA [NM_172126]	NM_172126	-1.0815
BTB (POZ) domain containing 14A	AK076376	1.03053
RIKEN cDNA 8430432A02 gene	AK018453	-1.04934
Mus musculus RIKEN cDNA 9130017C17 gene (9130017C17Rik), mRNA [NM_027840]	NM_027840	1.07368
Mus musculus olfactory receptor 483 (Olfr483), mRNA [NM_146735]	NM_146735	-1.01242
Mus musculus PET112-like (yeast) (Pet112l), mRNA [NM_144896]	NM_144896	1.09255
16 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:96	AK042566	-1.0142
Mus musculus budding uninhibited by benzimidazoles 3 homolog (S. cerevisiae) (Bub3), mRNA [NM_009774]	NM_009774	-1.07743
Mus musculus estrogen related receptor, beta (Esrrb), mRNA [NM_011934]	NM_011934	-1.02893
Mus musculus pleiomorphic adenoma gene 1 (Plag1), mRNA [NM_019969]	NM_019969	1.11551
Mus musculus RIKEN cDNA 1600022A19 gene (1600022A19Rik), transcript variant 1	NM_175363	-1.15511
RIKEN cDNA 4930563E19 gene	AK016201	-1.07222
Mus musculus tafazzin (Taz), mRNA [NM_181516]	NM_181516	-1.10175
Mus musculus ADP-ribosylation factor 5 (Arf5), mRNA [NM_007480]	NM_007480	1.13405
Mus musculus RIKEN cDNA 1110003P22 gene (1110003P22Rik), mRNA [NM_144522]	NM_144522	-1.12331
Cell division cycle 26	AK047055	1.13944
RIKEN cDNA 1700093J21 gene	AK007051	1.1628
RIKEN cDNA 1110001P11 gene	AK003267	-1.02289

RIKEN cDNA 4631423F02 gene	AK086025	-1.11187
EF-hand domain (C-terminal) containing 2	AK029501	-1.12614
Mus musculus cDNA sequence AF529169 (AF529169), mRNA [NM_153509]	NM_153509	1.04273
Agrin	AF294811	1.12263
Mus musculus CD244 natural killer cell receptor 2B4 (Cd244), mRNA [NM_018729]	NM_018729	-1.0568
Mus musculus golgi apparatus protein 1 (Glg1), mRNA [NM_009149]	NM_009149	1.33402
Protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting	AK037603	-1.01139
Mus musculus RIKEN cDNA 2810004N20 gene (2810004N20Rik), mRNA [NM_025576]	NM_025576	-1.66618
Mus musculus caspase 3, apoptosis related cysteine protease (Casp3), mRNA [NM_009810]	NM_009810	-1.14593
Mus musculus cDNA sequence BC022623 (BC022623), mRNA [NM_177632]	NM_177632	1.00961
ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 2	NM_009181	1.04313
Mus musculus RIKEN cDNA A830006N08 gene (A830006N08Rik), mRNA [NM_183173]	NM_183173	-1.07533
Mus musculus mirror-image polydactyly gene 1 homolog (human) (Mipol1), mRNA [XM_354672]	XM_354672	-1.3013
Mus musculus vinculin (Vcl), mRNA [NM_009502]	NM_009502	-1.09072
Mus musculus transient receptor potential cation channel, subfamily M, member	NM_021450	-1.62663
Monogenic, audiogenic seizure susceptibility 1	AK129190	1.09347
Mus musculus expressed sequence AU024582 (AU024582), mRNA [NM_153125]	NM_153125	1.06499
Mus musculus cDNA clone MGC:7891 IMAGE:3582444, complete cds.	BC006684	-1.11092
Mus musculus DNA segment, Chr 11, ERATO Doi 99, expressed (D11Ert99e),	NM_026618	-1.03166
Mus musculus BCL2-like 13 (apoptosis facilitator) (Bcl2l13), mRNA [NM_153516]	NM_153516	1.06085
Mus musculus RIKEN cDNA 2410104I19 gene (2410104I19Rik), mRNA [NM_133691]	NM_133691	1.00462
Mus musculus ovary testis transcribed (Ott), mRNA [NM_011022]	NM_011022	-1.17533
Mus musculus RIKEN cDNA 2410116I05 gene (2410116I05Rik), mRNA [NM_028605]	NM_028605	1.3086
RIKEN cDNA D330013L20 gene	AK084542	1.06408
Mus musculus ATP synthase, H+ transporting, mitochondrial F0 complex, subunit	NM_027862	-1.53906
Mus musculus RIKEN cDNA 2010106G01 gene (2010106G01Rik), mRNA [NM_023220]	NM_023220	-1.27458
Mus musculus AT rich interactive domain 5A (Mrf1 like) (Arid5a), mRNA [NM_145996]	NM_145996	-1.00921
Mus musculus sulfite oxidase (Suox), mRNA [NM_173733]	NM_173733	-1.15446
RIKEN cDNA 4930417O22 gene	AK015160	1.03067
Mus musculus adult male cerebellum cDNA, RIKEN full-length enriched library,	AK005223	-1.28519
Mus musculus leucine rich repeat containing 1 (Lrrc1), mRNA [NM_172528]	NM_172528	-1.35455
Mus musculus chemokine (C-C motif) receptor 4 (Ccr4), mRNA [NM_009916]	NM_009916	1.00255
Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyl	NM_172693	1.00396
Mus musculus latexin (Lxn), mRNA [NM_016753]	NM_016753	-1.16832
Cysteinyl leukotriene receptor 2	NM_133720	1.00096
F-box only protein 4	AK015995	1.0038
Mus musculus RIKEN cDNA B130017P16 gene (B130017P16Rik), mRNA [NM_178638]	NM_178638	1.21055
Mus musculus plasminogen activator, urokinase (Plau), mRNA [NM_008873]	NM_008873	-1.00833
Mus musculus leukemia inhibitory factor receptor (Lifr), mRNA [NM_013584]	NM_013584	1.03773
RIKEN cDNA D530004J12 gene	AK085190	-1.1183
Mus musculus proprotein convertase subtilisin/kexin type 4 (Pcsk4), mRNA [NM_008793]	NM_008793	1.03264
Mus musculus steroidogenic acute regulatory protein (Star), mRNA [NM_011488]	NM_011488	1.1339
Mus musculus androgen receptor (Ar), mRNA [NM_013476]	NM_013476	-1.02194
RIKEN cDNA 2810453I06 gene	BC012231	-1.16259
DJ259A10.1 (SSDNA BINDING PROTEIN (SEB4D)) homolog [Homo sapiens] [6330546B05]	6330546B05	1.03787
Mus musculus HIV-1 Rev binding protein-like (Hrbl), mRNA [NM_178162]	NM_178162	1.09998
Mus musculus doublecortin (Dcx), mRNA [NM_010025]	NM_010025	-1.02971
RIKEN cDNA 9130229H14 gene	AK078951	-1.1771
Peroxiredoxin 6	NM_007453	1.00857
DDHD domain containing 2	AK079311	-1.02093
Mus musculus sialoprotein associated with cones and rods proteoglycan (SPAC)	NM_174876	1.12118
Mus musculus hect domain and RLD 3 (Herc3), mRNA [NM_028705]	NM_028705	-1.32301

Smad nuclear interacting protein 1	NM_175246	-1.00518
Mus musculus gamma-aminobutyric acid (GABA-A) receptor, subunit epsilon (GNM_017369		1.07161
Mus musculus fatty acid binding protein 1, liver (Fabp1), mRNA [NM_017399]	NM_017399	-1.46367
Mus musculus RIKEN cDNA 2810441C07 gene (2810441C07Rik), mRNA [NM_	NM_172415	1.08909
Mus musculus serine dehydratase (Sds), mRNA [NM_145565]	NM_145565	1.03267
Mus musculus submaxillary gland androgen regulated protein 1 (Smr1), mRNA	NM_011422	-1.01397
Mus musculus phosphatidylinositol-4-phosphate 5-kinase, type 1 alpha (Pip5k1	NM_008846	1.01427
Mus musculus zinc finger, CCHC domain containing 14 (Zcchc14), mRNA [NM_	NM_080855	-1.02387
RIKEN cDNA 2700046A07 gene	AK012381	1
F-box and leucine-rich repeat protein 10	AF176524	-1.11388
Mus musculus LIM homeobox protein 3 (Lhx3), mRNA [NM_010711]	NM_010711	1.10134
Mus musculus inhibitor of growth family, member 5 (Ing5), mRNA [NM_029340]	NM_029340	-1.16251
Mus musculus chorionic gonadotropin beta (Cgb), mRNA [NM_053189]	NM_053189	1.11536
Mus musculus armadillo repeat containing, X-linked 1 (Armcx1), mRNA [NM_03	NM_030066	-1.4263
Insulin II	NM_008387	-1.13394
ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminic	NM_011371	-2.23182
Mus musculus solute carrier family 25 (mitochondrial carrier, dicarboxylate trans	NM_013770	1.04291
Endothelin converting enzyme 1	AK047359	-1.10417
Mus musculus olfactory receptor 491 (Olfr491), mRNA [NM_146736]	NM_146736	1.08262
RIKEN cDNA 9030418K01 gene	AK011539	-1.25605
Jumonji domain containing 1C	AK085500	-1.00508
Mus musculus 6 days neonate head cDNA, RIKEN full-length enriched library, c	AK017323	1.05698
RIKEN cDNA 1700112M01 gene	AK016772	1.05994
Mus musculus interleukin 21 receptor (Il21r), mRNA [NM_021887]	NM_021887	-1.00392
Nucleoporin 188	AK052272	1.12014
similar to regulator of sex-limitation 1	AK087838	-1.30941
Mus musculus RIKEN cDNA 4932422E22 gene (4932422E22Rik), mRNA [NM_	NM_176980	1.17146
Heat shock protein, alpha-crystallin-related, B9	AK005714	1.19229
Mus musculus makorin, ring finger protein, 2 (Mkrn2), mRNA [NM_023290]	NM_023290	-1.10983
Mus musculus tubulin tyrosine ligase (Ttl), mRNA [NM_027192]	NM_027192	-1.07203
Mus musculus interferon regulatory factor 5 (Irf5), mRNA [NM_012057]	NM_012057	1.12529
Mus musculus cDNA sequence BC035295 (BC035295), mRNA [NM_153407]	NM_153407	-1.03867
Gene model 430, (NCBI)	AK051581	1.02937
Mus musculus RIKEN cDNA 2310014H19 gene (2310014H19Rik), mRNA [NM_	NM_028839	-1.0593
Mus musculus heparan sulfate 6-O-sulfotransferase 2 (Hs6st2), mRNA [NM_01	NM_015819	1
RIKEN cDNA B230339M05 gene	AK046810	1.13021
Mus musculus Dicer1, Dcr-1 homolog (Drosophila) (Dicer1), mRNA [NM_14894	NM_148948	1.09668
Mus musculus pecanex-like 3 (Drosophila) (Pcnxl3), mRNA [NM_144868]	NM_144868	1.06006
Mus musculus RNA binding motif protein, X chromosome retrogene (Rbmxt), r	NM_009033	-1.38145
Mus musculus RIKEN cDNA 4930427A07 gene (4930427A07Rik), mRNA [NM_	NM_134041	-1.07755
Mus musculus RIKEN cDNA 4933439F18 gene (4933439F18Rik), mRNA [NM_	NM_025757	1.08925
Mus musculus RIKEN cDNA C230004D03 gene (C230004D03Rik), mRNA [NM_	NM_172684	-1.28294
Mus musculus high mobility group box 3 (Hmgb3), mRNA [NM_008253]	NM_008253	-1.08933
Mus musculus mitochondrial ribosomal protein S15 (Mrps15), mRNA [NM_0255	NM_025544	-1.16869
Mus musculus glucosaminyl (N-acetyl) transferase 1, core 2 (Gcnt1), mRNA [NM	NM_010265	1.0294
Mus musculus vomeronasal 1, receptor B2 (V1rb2), mRNA [NM_011911]	NM_011911	1.02277
Protein tyrosine phosphatase, receptor type, F	BC052322	-1.20156
Mus musculus regulatory factor X-associated protein (Rfxap), mRNA [NM_1332	NM_133231	1.03435
Mus musculus CTF18, chromosome transmission fidelity factor 18 homolog (S.	NM_145409	-1.14
Mus musculus protein tyrosine phosphatase, receptor type, F (Ptpfr), mRNA [NM	NM_011213	1.2701
Mus musculus neural precursor cell expressed, developmentally down-regulate	NM_031881	-1.22665
Mus musculus hypocretin (Hcrt), mRNA [NM_010410]	NM_010410	1.06986

Mus musculus cytochrome P450, family 2, subfamily c, polypeptide 55 (Cyp2c5)	NM_028089	1.0675
Mus musculus RIKEN cDNA 9030617O03 gene (9030617O03Rik), mRNA	[NM_0145448]	-1.03262
T-box 22	AK084312	-1.00504
Mus musculus MHC I - like leukocyte 2 (Mill2), mRNA	[NM_0153760]	-1.04464
FIP1 like 1 (<i>S. cerevisiae</i>)	BC003263	-1.02123
Mus musculus MOB1, Mps One Binder kinase activator-like 1B (yeast) (Mobk1b)	NM_0145571	-1.04769
RIKEN cDNA 2310002F18 gene	AK009092	-1.1508
Mus musculus armadillo repeat containing 5 (Armc5), mRNA	[NM_0146205]	-1.06467
Expressed sequence AI428795	BC002262	1.2865
Aldo-keto reductase family 1, member C20	BC021607	1.04448
Mus musculus olfactory receptor 571 (Olf571), mRNA	[NM_0147085]	1.25994
Mus musculus phenylalanine-tRNA synthetase-like, beta subunit (Farslb), mRNA	[NM_011811]	-1.27438
Mus musculus developmental pluripotency associated 4 (Dppa4), mRNA	[NM_01028610]	1.14238
Mus musculus solute carrier family 6 (neurotransmitter transporter), member 20	NM_011731	-1.01423
Mus musculus ATPase, aminophospholipid transporter (APLT), class I, type 8A,	NM_009727	-1.00958
Mus musculus fibroblast growth factor 22 (Fgf22), mRNA	[NM_023304]	1.11023
Itchy	AF037454	-1.30721
Mus musculus RIKEN cDNA 1500010M16 gene (1500010M16Rik), mRNA	[NM_026892]	-1.38624
Protein phosphatase 1J	NM_027982	-1.01777
Mus musculus mannose-6-phosphate receptor binding protein 1 (M6prbp1), mRNA	[NM_025836]	-1.15875
Mus musculus RIKEN cDNA 1700001D09 gene (1700001D09Rik), mRNA	[NM_027025]	-1.03679
Mus musculus chemokine (C-C motif) ligand 9 (Ccl9), mRNA	[NM_011338]	-1.0957
Mus musculus interferon (alpha and beta) receptor 1 (Ifnar1), mRNA	[NM_010510508]	1.06422
Unknown		1.02213
RIKEN cDNA 1700055N04 gene	AK081788	1
Mus musculus jumonji domain containing 2C (Jmjd2c), mRNA	[NM_0144787]	-1.10137
Mus musculus retinol binding protein 2, cellular (Rbp2), mRNA	[NM_009034]	-1.02125
Mus musculus calpain 1 (Capn1), mRNA	[NM_007600]	1.01635
Mus musculus granzyme C (Gzmc), mRNA	[NM_010371]	1.14462
Mus musculus killer cell lectin-like receptor subfamily B member 1B (Klrb1b), mRNA	[NM_008526]	-1.02773
Mus musculus RIKEN cDNA 6330403K07 gene (6330403K07Rik), mRNA	[NM_0134022]	-1.06397
Mus musculus MAD homolog 5 (<i>Drosophila</i>) (Smad5), mRNA	[NM_008541]	-1.25364
integral inner nuclear membrane protein MAN1	AF112300	1.14461
Mus musculus kringle containing transmembrane protein 2 (Kremen2), mRNA	[NM_01028416]	1.06982
Mus musculus bone morphogenic protein receptor, type II (serine/threonine kinase)	NM_007561	-1.23022
Mus musculus cytotoxic and regulatory T cell molecule (Crtam), mRNA	[NM_01019465]	1.01253
Mus musculus neuronal d4 domain family member (Neud4), mRNA	[NM_01387013874]	-1.06356
Mus musculus unc-13 homolog A (<i>C. elegans</i>) (Unc13a), mRNA	[NM_021468]	-1.29075
Mus musculus RIKEN cDNA 1810020E01 gene (1810020E01Rik), mRNA	[NM_025460]	-1.89627
Mus musculus spinocerebellar ataxia 7 homolog (human) (Sca7), mRNA	[NM_01139227]	1.17664
Mus musculus actin, alpha 2, smooth muscle, aorta (Acta2), mRNA	[NM_00739007392]	1.14549
Mus musculus mitogen activated protein kinase 8 interacting protein (Mapk8ip),	NM_011162	-1.08699
Mus musculus acyl-malonyl condensing enzyme (Amac1), mRNA	[NM_019871]	1.05189
Mus musculus calyntenin 1 (Clstn1), mRNA	[NM_023051]	1.22184
Mus musculus RIKEN cDNA 0610012G03 gene (0610012G03Rik), mRNA	[NM_025320]	-1.05731
Mus musculus polymerase (DNA-directed), epsilon 4 (p12 subunit) (Pole4), mRNA	[NM_025882]	-1.50577
Stromal interaction molecule 2	AF328907	1.13646
Mus musculus transmembrane protein 16F (Tmem16f), mRNA	[NM_0175344]	1.00924
Mus musculus RIKEN cDNA 2410016F19 gene (2410016F19Rik), mRNA	[NM_026113]	-1.42137
Mus musculus stathmin-like 4 (Stmn4), mRNA	[NM_019675]	-1.14223
Mus musculus Bcl-associated death promoter (Bad), mRNA	[NM_007522]	-1.36409
Mus musculus retinal G protein coupled receptor (Rgr), mRNA	[NM_021340]	1.15532

Mus musculus RIKEN cDNA 2900005J15 gene (2900005J15Rik), mRNA [NM_026059]	NM_026059	-1.0344
Mus musculus seminal vesicle protein, secretion 7 (Svs7), mRNA [NM_020264]	NM_020264	1.20694
Mus musculus olfactory receptor 1026 (Olfr1026), mRNA [NM_146584]	NM_146584	1.17005
RIKEN cDNA A230067G21 gene	AK038838	-1.00569
Mus musculus RIKEN cDNA C730027P07 gene (C730027P07Rik), mRNA [NM_177743]	NM_177743	-1.01011
Zinc finger protein 509	AK043044	-1.04624
RIKEN cDNA 9630050M13 gene	BC030327	-1.03015
Mus musculus ubiquitin specific protease 8 (Usp8), mRNA [NM_019729]	NM_019729	-1.14988
Mus musculus purinergic receptor P2Y, G-protein coupled 2 (P2ry2), mRNA [NM_008773]	NM_008773	1.07174
CCR4-NOT transcription complex, subunit 6	AK043052	1.06683
Fusion, derived from t(12;16) malignant liposarcoma (human)	AK032815	1.06132
Mus musculus coagulation factor XIII, beta subunit (F13b), mRNA [NM_031164]	NM_031164	-1.0106
Mus musculus sarcoglycan, gamma (dystrophin-associated glycoprotein) (Sgcg), mRNA [NM_011892]	NM_011892	-1.09412
Mus musculus SAR1a gene homolog 2 (S. cerevisiae) (Sara2), mRNA [NM_025535]	NM_025535	-1.37457
Mus musculus pre T-cell antigen receptor alpha (Ptrca), mRNA [NM_011195]	NM_011195	1.04573
Unknown		1.09236
Mus musculus toll-like receptor 4 (Tlr4), mRNA [NM_021297]	NM_021297	-1.32799
RIKEN cDNA 4921504N20 gene	AK019536	1.01906
Sloan-Kettering viral oncogene homolog	AK003814	1.03643
RIKEN cDNA 2210011C24 gene	AK008705	1.04237
Pleckstrin homology domain containing, family H (with MyTH4 domain) member 1	AK122464	-1.30527
Mus musculus disrupted meiotic cDNA 1 homolog (Dmc1h), mRNA [NM_010059]	NM_010059	1.12154
Mus musculus Spi-C transcription factor (Spi-1/PU.1 related) (Spic), mRNA [NM_011461]	NM_011461	-1.04076
WD repeat domain 41	AK046853	-1.00036
Mus musculus myeloid/lymphoid or mixed lineage-leukemia translocation to 6 homolog 1 (MLL6), mRNA [NM_139311]	NM_139311	1.10389
Synaptojanin 2	AK129122	1.0358
Mus musculus RIKEN cDNA E130310K16 gene (E130310K16Rik), mRNA [NM_172987]	NM_172987	1.01004
Radical S-adenosyl methionine and flavodoxin domains 1	AK082884	-1.0027
RIKEN cDNA C430002N04 gene	AK049385	-1.08219
Mus musculus RIKEN cDNA 2510027J23 gene (2510027J23Rik), mRNA [NM_025637]	NM_025637	-1.12621
RIKEN cDNA 1700037C18 gene	AK012792	-1.04577
Mus musculus RIKEN cDNA 2610312B22 gene (2610312B22Rik), mRNA [NM_026934]	NM_026934	-1.19927
Mus musculus mitogen-activated protein kinase kinase kinase 9 (Map3k9), mRNA [NM_177395]	NM_177395	-1.02283
Mus musculus crumbs homolog 1 (Drosophila) (Crb1), mRNA [NM_133239]	NM_133239	-1.12757
Mus musculus solute carrier family 35, member F5 (Slc35f5), mRNA [NM_028787]	NM_028787	-1.53651
Mus musculus histone 3, H2ba (Hist3h2ba), mRNA [NM_030082]	NM_030082	1.01741
Mus musculus vomeronasal 1 receptor, K1 (V1rk1), mRNA [NM_134227]	NM_134227	1.05098
Carbamoyl-phosphate synthetase 1	AK028683	1.14778
Adult male corpora quadrigemina cDNA, RIKEN full-length enriched library, clone 1	AK045601	-1.00221
RIKEN cDNA 3110069A13 gene	AK014242	-1.44222
Mus musculus RIKEN cDNA 1200020A08 gene (1200020A08Rik), mRNA [NM_019936]	NM_019936	-1.58019
RIKEN cDNA 6030457N17 gene	BC025090	-1.01896
Mus musculus telomeric repeat binding factor 1 (Terf1), mRNA [NM_009352]	NM_009352	-1.32957
Mus musculus ribosomal protein S18 (Rps18), mRNA [NM_011296]	NM_011296	-1.08997
RIKEN cDNA 1110065L07 gene	AK044407	-1.0375
RIKEN cDNA 4833419E13 gene	AK014724	-1.14381
Mus musculus tumor necrosis factor receptor superfamily, member 8 (Tnfrsf8), mRNA [NM_009401]	NM_009401	1.20462
Mus musculus ribosomal protein S17 (Rps17), mRNA [NM_009092]	NM_009092	1.18519
Mus musculus Mycbp associated protein (Mycbpap), mRNA [NM_170671]	NM_170671	-1.10661
Mus musculus esterase D/formylglutathione hydrolase (Esd), mRNA [NM_016903]	NM_016903	-1.38405
Mus musculus forkhead box B2 (Foxb2), mRNA [NM_008023]	NM_008023	1.14183
Mus musculus reticulocalbin 2 (Rcn2), mRNA [NM_011992]	NM_011992	-1.44486

Mus musculus hexokinase 1 (Hk1), mRNA [NM_010438]	NM_010438	1.31085
Mus musculus urate oxidase (Uox), mRNA [NM_009474]	NM_009474	1.07067
Mus musculus olfactory receptor 944 (Olfr944), mRNA [NM_146507]	NM_146507	1.07773
GLI-Kruppel family member GLI1	NM_010296	-1.16413
Mus musculus pyrroline-5-carboxylate reductase family, member 2 (Pycr2), mRNA [NM_133705]	NM_133705	1.02507
hypothetical protein 4933411G11	NM_177880	1.03132
Mus musculus vomeronasal 1 receptor, E6 (V1re6), mRNA [NM_134195]	NM_134195	1.07546
Mus musculus RIKEN cDNA 4933405K07 gene (4933405K07Rik), mRNA [NM_028913]	NM_028913	1.10564
DNA segment, Chr 19, Wayne State University 162, expressed	AK078491	1.01226
Mus musculus ectonucleoside triphosphate diphosphohydrolase 1 (Entpd1), mRNA [NM_009848]	NM_009848	-1.15876
CCR4-NOT transcription complex, subunit 6	BC037217	-1.46176
M-phase phosphoprotein 9	AK016065	-1.0143
Mus musculus glutaryl-Coenzyme A dehydrogenase (Gcdh), mRNA [NM_008097]	NM_008097	-1.09224
Mus musculus excision repair cross-complementing rodent repair deficiency, complementing 10 (Ercc10), mRNA [NM_007948]	NM_007948	-1.00325
Mus musculus RIKEN cDNA 2410015M20 gene (2410015M20Rik), mRNA [NM_153152]	NM_153152	-1.27725
Mus musculus cardiomyopathy associated 4 (Cmya4), mRNA [NM_178680]	NM_178680	-1.09819
Mus musculus aquaporin 4 (Aqp4), mRNA [NM_009700]	NM_009700	1.01853
Mus musculus beaded filament structural protein in lens-CP94 (Bfsp1), mRNA [NM_009751]	NM_009751	1.07517
Zinc finger protein 1, Y linked	X14382	1.04057
Mus musculus 10 days embryo whole body cDNA, RIKEN full-length enriched library cDNA 1110018J12 gene (1110018J12Rik), mRNA [NM_028658]	AK011165	1.03127
Mus musculus interleukin 31 receptor A (Il31ra), mRNA [NM_139299]	NM_139299	1.11981
Mus musculus RIKEN cDNA 1110018J12 gene (1110018J12Rik), mRNA [NM_028658]	NM_028658	-1.05115
Cylicin, basic protein of sperm head cytoskeleton 1	AK015303	1.07985
Mus musculus slit homolog 2 (Drosophila) (Slit2), mRNA [NM_178804]	NM_178804	-1.01638
Protein tyrosine phosphatase, receptor type, B	AK019450	1.16552
Mus musculus olfactory receptor 714 (Olfr714), mRNA [NM_147033]	NM_147033	1.18072
Mus musculus MAD homolog 6 (Drosophila) (Smad6), mRNA [NM_008542]	NM_008542	1.21264
Mus musculus phosphomannomutase 1 (Pmm1), mRNA [NM_013872]	NM_013872	-1.12045
Mus musculus Rho guanine nucleotide exchange factor (GEF) 1 (Arhgef1), mRNA [NM_008488]	NM_008488	1.28464
Mus musculus olfactory receptor 727 (Olfr727), mRNA [NM_146319]	NM_146319	-1.05676
RIKEN cDNA 1110021E09 gene	NM_025845	1.36476
RIKEN cDNA 1700027J05 gene	BC017544	1.06231
Mus musculus synaptotagmin-like 2 (Sytl2), mRNA [NM_031394]	NM_031394	-1.38272
Mus musculus ADP-ribosylation factor GTPase activating protein 3 (Arfgap3), mRNA [NM_025445]	NM_025445	1.01072
Mus musculus expressed sequence C76566 (C76566), mRNA [NM_178879]	NM_178879	1.07881
RIKEN cDNA A430091O22 gene	AK040404	1.78167
Keratin associated protein 6-1	D86421	1.03241
Mus musculus Notch-regulated ankyrin repeat protein (Nrarp), mRNA [NM_025980]	NM_025980	-1.11564
Mus musculus 8 days embryo whole body cDNA, RIKEN full-length enriched library cDNA 3100004P22 gene (3100004P22Rik), mRNA [NM_133693]	AK077428	-1.00949
Mus musculus milk fat globule-EGF factor 8 protein (Mfge8), mRNA [NM_008594]	NM_008594	-1.05971
Mus musculus RIKEN cDNA 3100004P22 gene (3100004P22Rik), mRNA [NM_133693]	NM_133693	1.13641
Mus musculus RIKEN cDNA 2610209N15 gene (2610209N15Rik), mRNA [NM_183286]	NM_183286	-1.00633
Mus musculus beta-2 microglobulin (B2m), mRNA [NM_009735]	NM_009735	-1.64817
Mus musculus desmuslin (Dmn), transcript variant 1, mRNA [NM_201639]	NM_201639	1.0048
Mus musculus TAF12 RNA polymerase II, TATA box binding protein (TBP)-associated factor 12 (Taf12), mRNA [NM_025579]	NM_025579	-1.18281
Adenosine A3 receptor	AK013534	-1.01461
Mus musculus RIKEN cDNA 5830482F20 gene (5830482F20Rik), mRNA [NM_177158]	NM_177158	1.02811
Mus musculus RIKEN cDNA 1700040L02 gene (1700040L02Rik), mRNA [NM_028491]	NM_028491	-1.35032
Myosin IA	AF009960	-1.0201
Mus musculus RIKEN cDNA 4930430A15 gene (4930430A15Rik), mRNA [NM_026248]	NM_026248	1.00048
Mus musculus cDNA sequence BC004728 (BC004728), mRNA [NM_174992]	NM_174992	1.0147
Hypothetical protein A730046J16	U34361	1

Pam, highwire, rpm 1	AK043186	1.06572
Mus musculus guanine nucleotide binding protein, alpha o (Gnao), mRNA [NM_010308]		1.09824
Mus musculus hydroxysteroid 11-beta dehydrogenase 2 (Hsd11b2), mRNA [NM_008289]		-1.03944
Leiomodin 3 (fetal)	AK030676	1.03277
Mus musculus RIKEN cDNA 5031439A09 gene (5031439A09Rik), mRNA [NM_026582]		-1.85513
RIKEN cDNA B130050I23 gene	AK019856	1.04488
Expressed sequence C86987	AK053890	-1.11137
Mus musculus RIKEN cDNA 2810406C15 gene (2810406C15Rik), mRNA [NM_146171]		1.1223
Mus musculus mesoderm specific transcript (Mest), mRNA [NM_008590]	NM_008590	-1.22362
ATP-binding cassette, sub-family D (ALD), member 3	NM_008991	-1.30443
Transmembrane protein 16B	AK044763	1.03533
Mus musculus ATPase family, AAA domain containing 1 (Atad1), mRNA [NM_026487]		-1.90297
unknown EST [8430408O14]		-1.09149
Mus musculus RIKEN cDNA C630035N08 gene (C630035N08Rik), mRNA [NM_175427]		-1.08124
Mus musculus RIKEN cDNA 2610510H03 gene (2610510H03Rik), mRNA [NM_026620]		-1.2026
RIKEN cDNA 2810012G08 gene	AK012725	-1.27647
Mus musculus SH3-domain GRB2-like B1 (endophilin) (Sh3glb1), mRNA [NM_019464]		-1.1334
Mus musculus deltex 1 homolog (Drosophila) (Dtx1), mRNA [NM_008052]	NM_008052	1.04228
Mus musculus zinc finger protein 74 (Zfp74), mRNA [NM_178384]	NM_178384	-1.09799
Mus musculus mitochondrial ribosomal protein S22 (Mrps22), mRNA [NM_025485]		-1.24045
RIKEN cDNA 2310075M15 gene	AK122223	-1.07998
Mus musculus shugoshin-like 1 (S. pombe) (Sgo1), mRNA [NM_028232]	NM_028232	-1.05833
Phosphodiesterase 3B, cGMP-inhibited	AK044183	1.06582
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK016178		1.0061
Mus musculus arrestin 3, retinal (Arr3), mRNA [NM_133205]	NM_133205	1.07531
Mus musculus F-box only protein 36 (Fbxo36), mRNA [NM_025386]	NM_025386	-1.03982
Dmx-like 2	AK053672	-1.04662
Mus musculus fasciculation and elongation protein zeta 2 (zygin II) (Fez2), mRNA [NM_199448]		-1.15705
Mus musculus N-myc downstream regulated gene 3 (Ndr3), mRNA [NM_013865]		-1.22395
Mus musculus jumonji domain containing 2B (Jmjd2b), mRNA [NM_172132]	NM_172132	1.20842
Glycosyltransferase-like domain containing 1	NM_172662	-1.16847
Mus musculus interferon gamma receptor (Ifngr), mRNA [NM_010511]	NM_010511	-1.35395
REST corepressor 3	BC057141	1.10218
Mus musculus estrogen-related receptor beta like 1 (Esrrb1), mRNA [NM_028680]		-1.29035
Mus musculus transketolase-like 1 (Tktl1), mRNA [NM_031379]	NM_031379	1.14628
RIKEN cDNA A530083I20 gene	AK041109	1.06099
Mus musculus mitogen activated protein kinase kinase kinase 5 (Map3k5), mRNA [NM_008580]		1.04823
Mus musculus RIKEN cDNA 9130422G05 gene (9130422G05Rik), mRNA [NM_025782]		-1.01038
SRY-box containing gene 10	AF017182	1.0666
Gene model 169, (NCBI)	NM_199301	1.03043
Mus musculus gap junction membrane channel protein alpha 7 (Gja7), mRNA [NM_008122]		-1.326
RIKEN cDNA 2010317E24 gene	AK008577	1.02505
Mus musculus deleted in polyposis 1-like 1 (Dp11), mRNA [NM_139292]	NM_139292	1.00678
Mus musculus sortilin 1 (Sort1), mRNA [NM_019972]	NM_019972	1.03751
Mannoside acetylglucosaminyltransferase 4, isoenzyme A	AK081431	-1.00964
Zinc finger protein 644	AK122471	-1.23235
Mus musculus zinc finger protein 51 (Zfp51), mRNA [NM_009558]	NM_009558	-1.46498
Mus musculus betacellulin, epidermal growth factor family member (Btc), mRNA [NM_007568]		1
Mus musculus RIKEN cDNA A930019K20 gene (A930019K20Rik), mRNA [NM_172516]		1.11857
Mus musculus RIKEN cDNA 5830406J20 gene (5830406J20Rik), mRNA [NM_175204]		1.06867
Unknown		1.06844
Mus musculus RIKEN cDNA D130072O21 gene (D130072O21Rik), mRNA [NM_175322]		-1.1654

Transmembrane protein 1	AK045712	1.05105
Mus musculus thrombospondin repeat containing 1 (Tsrc1), mRNA [NM_144899]	NM_144899	1.34045
Mus musculus Fgfr1 oncogene partner (Fgfr1op), mRNA [NM_201230]	NM_201230	-1.40274
Breast cancer metastasis-suppressor 1-like	AK003055	-1.00353
Mus musculus SRY-box containing gene 18 (Sox18), mRNA [NM_009236]	NM_009236	1.08869
Mus musculus cDNA sequence BC027373 (BC027373), mRNA [NM_182782]	NM_182782	-1.07973
Mus musculus olfactory receptor 1120 (Olfr1120), mRNA [NM_147029]	NM_147029	1
Mus musculus zinc finger CCCH type, antiviral 1 (Zc3hav1), mRNA [NM_028866]	NM_028866	-1.32869
Mus musculus trans-retinol/estrogen dehydrogenase (Rdh8) mRNA, complete cDNA	AF103797	-1.02038
DNA Segment, Chr 14, Mouse Genome Informatics 8	AK077345	1.15283
Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 35 (Dhx35), mRNA [NM_145742]	NM_145742	-1.10462
Mus musculus selectin, endothelial cell (Sele), mRNA [NM_011345]	NM_011345	1
RIKEN cDNA 3930402G23 gene	AK014460	1.05659
Sperm motility kinase 2	AJ245454	-1.02301
Mus musculus mitochondrial ribosomal protein 63 (Mrp63), mRNA [NM_026401]	NM_026401	1.08504
Mus musculus ATPase inhibitor (Atpi), mRNA [NM_007512]	NM_007512	-1.16172
ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1	NM_011374	1.05982
Mus musculus androgen-induced 1 (Aig1), mRNA [NM_025446]	NM_025446	1.00049
Mus musculus DNA segment, Chr 4, Wayne State University 53, expressed (D4)	NM_023665	-1.21884
Mus musculus protein tyrosine phosphatase, receptor type, S (Ptprs), mRNA [NM_011218]	NM_011218	-1.0435
Oxysterol binding protein-like 8	AK038260	1
Mus musculus silver (Si), mRNA [NM_021882]	NM_021882	1.05927
Mus musculus RNA (guanine-7-) methyltransferase (Rnmt), mRNA [NM_026440]	NM_026440	-1.23678
Mus musculus ribosomal protein S27 (Rps27), mRNA [NM_027015]	NM_027015	-1.04398
Mus musculus polymerase (RNA) II (DNA directed) polypeptide B (Polr2b), mRNA [NM_153798]	NM_153798	-1.23246
transcriptional regulator protein	NM_020483	1.11701
Mus musculus multiple inositol polyphosphate histidine phosphatase 1 (Minpp1)	NM_010799	-1.08752
RIKEN cDNA 1700109F18 gene	AK006878	1.00367
Mus musculus nephronophthisis 1 (juvenile) homolog (human) (Nphp1), mRNA [NM_016902]	NM_016902	-1.07634
Expressed sequence C77370	AK038635	1.09429
Mus musculus golgi autoantigen, golgin subfamily a, 2 (Golga2), mRNA [NM_133852]	NM_133852	-1.04652
SWI/SNF-related, matrix-associated actin-dependent regulator of chromatin, subunit X	X69942	-1.04238
Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 5 beta (Dnajc5b), mRNA [NM_025489]	NM_025489	1.10571
Ependymin related protein 1 (zebrafish)	NM_053192	-1.12863
Mus musculus fibroblast growth factor 3 (Fgf3), mRNA [NM_008007]	NM_008007	-1.0698
Expressed sequence BB085087	AK051383	1.09746
Mus musculus protein kinase N2 (Pkn2), mRNA [NM_178654]	NM_178654	-1.36366
Immunoglobulin superfamily, member 3	AK019524	-1.17873
Retinoblastoma binding protein 8	BC050849	-1.26352
RIKEN cDNA 5830416P10 gene	AK019949	1.19574
Paxillin	BC003298	1.27734
Mus musculus pleckstrin homology-like domain, family A, member 1 (Phlda1), mRNA [NM_009344]	NM_009344	1.04798
Mus musculus G protein-coupled receptor 74 (Gpr74), mRNA [NM_133192]	NM_133192	-1.10099
GTPase, IMAP family member 6	NM_153175	-1.11895
24-dehydrocholesterol reductase	AK010192	-1.06261
Mus musculus RIKEN cDNA E130016I23 gene (E130016I23Rik), mRNA [NM_021434]	NM_021434	-1.09355
Mus musculus cDNA sequence BC031181 (BC031181), mRNA [NM_00100118]	NM_00100118	-1.54218
Mus musculus component of oligomeric golgi complex 6 (Cog6), mRNA [NM_026225]	NM_026225	-1.03669
Mus musculus insulin-like growth factor binding protein 7 (Igfbp7), mRNA [NM_008048]	NM_008048	1.06496
Dynein, axonemal, heavy chain 8	NM_013811	-1.09357
RIKEN cDNA C230098I05 gene	AK090234	-1.02077
Mus musculus ectonucleotide pyrophosphatase/phosphodiesterase 1 (Enpp1), mRNA [NM_008813]	NM_008813	-1.10627

Mus musculus ribosomal protein S8 (Rps8), mRNA [NM_009098]	NM_009098	-1.3741
Leukocyte specific transcript 1	NM_010734	1.09661
Mus musculus protocadherin 7 (Pcdh7), mRNA [NM_018764]	NM_018764	-1.04326
Mus musculus zinc finger, FYVE domain containing 27 (Zfyve27), mRNA [NM_177319]	NM_177319	-1.21725
Mus musculus Rho GTPase activating protein 12 (Arhgap12), mRNA [NM_029277]	NM_029277	-1.03764
RIKEN cDNA 9430076A06 gene	AK035028	1.0262
Mus musculus 7 days neonate cerebellum cDNA, RIKEN full-length enriched lib	AK042573	-1.06765
WW domain-containing oxidoreductase	AK013927	1.05661
Mus musculus RIKEN cDNA E030041M21 gene (E030041M21Rik), mRNA [NM_029166]	NM_029166	1.07467
Mus musculus keratin complex 1, acidic, gene 2 (Krt1-2), mRNA [NM_010665]	NM_010665	1.0139
Mus musculus chloride intracellular channel 6 (Clic6), mRNA [NM_172469]	NM_172469	-1.01133
RIKEN cDNA 4930535B03 gene	AK129150	1.06824
Zinc finger, CCHC domain containing 2	AK037100	-1.14514
Mus musculus splicing factor 3a, subunit 1 (Sf3a1), mRNA [NM_026175]	NM_026175	-1.06984
RIKEN cDNA C630043D15 gene	NM_009182	-1.05118
Mus musculus RIKEN cDNA 9030221C07 gene (9030221C07Rik), mRNA [NM_177802]	NM_177802	1.03912
Mus musculus RIKEN cDNA 2410012M04 gene (2410012M04Rik), mRNA [NM_027193]	NM_027193	-1.29259
Mus musculus zinc finger protein 29 (Zfp29), mRNA [NM_009553]	NM_009553	-1.25522
Mus musculus ubiquitin associated domain containing 1 (Ubadc1), mRNA [NM_133835]	NM_133835	1.01937
Mus musculus preimplantation protein 3 (Prei3), mRNA [NM_025283]	NM_025283	-1.65393
Cyclin L1	AK044348	1.06117
Mus musculus mucosa associated lymphoid tissue lymphoma translocation gene	NM_172833	-1.53219
Mus musculus polycystic kidney disease 1 homolog (Pkd1), mRNA [NM_013630]	NM_013630	1.09132
Mus musculus zinc finger, CCHC domain containing 3 (Zcchc3), mRNA [NM_175126]	NM_175126	1.10487
Mus musculus RIKEN cDNA 9930111I18 gene (9930111I18Rik), mRNA [NM_178695]	NM_178695	-1.05123
ATP-binding cassette, sub-family A (ABC1), member 14	AY243470	-1.20193
Dynein, axonemal, intermediate polypeptide 2	AK081229	1.00619
RIKEN cDNA C030047K22 gene	AK021157	-1.02159
Mus musculus crystallin, alpha B (Cryab), mRNA [NM_009964]	NM_009964	-1.08801
Mus musculus galactose-3-O-sulfotransferase 1 (Gal3st1), mRNA [NM_016922]	NM_016922	1.02358
Mus musculus Eph receptor A6 (Epha6), mRNA [NM_007938]	NM_007938	-1.0087
Cytoplasmic polyadenylation element binding protein 2	AK076221	1.18026
Mus musculus zona pellucida binding protein (Zpbbp), mRNA [NM_015785]	NM_015785	-1.02525
RIKEN cDNA A930016D02 gene	NM_176920	-1.01025
Mus musculus RIKEN cDNA 4732421G10 gene (4732421G10Rik), mRNA [NM_177844]	NM_177844	1.02604
Fucosyltransferase 10	NM_134161	1.04644
Mus musculus solute carrier family 25 (mitochondrial carrier, peroxisomal membrane)	NM_011399	-1.43203
Dedicator of cytokinesis 5	BC016533	-1.01299
Mus musculus ring finger protein 8 (Rnf8), mRNA [NM_021419]	NM_021419	-1.00961
RIKEN cDNA 5430406J06 gene	AK011961	1.0825
Mus musculus vomeronasal 1 receptor, l1 (V1ri1), mRNA [NM_145845]	NM_145845	1.05454
Mus musculus RIKEN cDNA 1810015M01 gene (1810015M01Rik), mRNA [NM_026933]	NM_026933	-1.12962
Mus musculus DAZ associated protein 1 (Dazap1), mRNA [NM_133188]	NM_133188	1.09726
Mus musculus pellino 1 (Peli1), mRNA [NM_023324]	NM_023324	-1.38136
Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 1	NM_011391	-1.05215
Mus musculus APG4 (ATG4) autophagy-related homolog A (S. cerevisiae) (Apg4)	NM_174875	-1.1779
Mus musculus HRAS-like suppressor (Hrasls), mRNA [NM_013751]	NM_013751	-1.002
Mus musculus procollagen, type IV, alpha 1 (Col4a1), mRNA [NM_009931]	NM_009931	-1.03282
RIKEN cDNA 5430413K10 gene	AK029377	1.08238
Mus musculus homer homolog 3 (Drosophila) (Homer3), mRNA [NM_011984]	NM_011984	1.19483
Poly (ADP-ribose) polymerase family, member 4	BC046397	1.10535
Mus musculus cDNA sequence BC003236 (BC003236), mRNA [NM_030249]	NM_030249	-1.03773

Mus musculus DNA segment, Chr 7, Wayne State University 128, expressed (D NM_138589		-1.20871
Mus musculus tenascin C (Tnc), mRNA [NM_011607]	NM_011607	1.04706
Mus musculus H1 histone family, member 0 (H1f0), mRNA [NM_008197]	NM_008197	-1.23483
Mus musculus ornithine aminotransferase (Oat), mRNA [NM_016978]	NM_016978	-1.1281
Mus musculus DNA segment, Chr 15, ERATO Doi 366, expressed (D15Ert366 NM_023063		-1.28938
Mus musculus 15 days embryo male testis cDNA, RIKEN full-length enriched lib AK078768		1.0221
Hypothetical protein E130101M22	AF374170	1.20879
Mus musculus RIKEN cDNA 3110010F15 gene (3110010F15Rik), mRNA [NM_026067]	NM_026067	-1.46156
Mus musculus X-ray repair complementing defective repair in Chinese hamster	NM_009532	1.13628
C-src tyrosine kinase	U05247	1.07341
Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 9 (Dnajc9), mRNA NM_134081		-1.19262
Mus musculus DNA segment, Chr 8, ERATO Doi 233, expressed (D8Ert233e), NM_172762		-1.11323
Mus musculus olfactory receptor 701 (Olfr701), mRNA [NM_028910]	NM_028910	1.01978
Mus musculus succinate dehydrogenase complex, subunit B, iron sulfur (lp) (Sd NM_023374		-1.5161
Mus musculus splicing factor, arginine/serine-rich 7 (Sfrs7), mRNA [NM_146083]	NM_146083	-1.96921
Mus musculus zinc finger protein 364 (Zfp364), mRNA [NM_026406]	NM_026406	-1.41353
Mus musculus RIKEN cDNA A930009M04 gene (A930009M04Rik), mRNA [NM_177266]	NM_177266	-1.03113
Mus musculus kringle containing transmembrane protein (Kremen), mRNA [NM_032396]	NM_032396	-1.08526
Spastic paraplegia 3A homolog (human)	BY723611	-1.01169
Integrin beta 1 binding protein 1	AJ001373	-1.29251
Mus musculus thrombomodulin (Thbd), mRNA [NM_009378]	NM_009378	-1.46232
Mus musculus parathyroid hormone-like peptide (Pthlh), mRNA [NM_008970]	NM_008970	1.041
Mus musculus secreted acidic cysteine rich glycoprotein (Sparc), mRNA [NM_009242]	NM_009242	-1.24479
Solute carrier family 24 (sodium/potassium/calcium exchanger), member 4	AK044239	-1.02205
Mus musculus solute carrier family 5 (iodide transporter), member 8 (Slc5a8), mRNA [NM_145423]	NM_145423	-1.02131
RIKEN cDNA 2010300C02 gene	BC029089	-1.3404
Mus musculus peroxisomal biogenesis factor 11a (Pex11a), mRNA [NM_011066]	NM_011066	1.14636
Mus musculus interleukin 2 receptor, gamma chain (Il2rg), mRNA [NM_013563]	NM_013563	1.02007
Mus musculus 13 days embryo liver cDNA, RIKEN full-length enriched library, c AK010956		1.11218
Mus musculus exostoses (multiple)-like 1 (Extl1), mRNA [NM_019578]	NM_019578	1.0333
Mus musculus KH domain containing, RNA binding, signal transduction associated	NM_133235	1.21587
Mus musculus olfactory receptor 1238 (Olfr1238), mRNA [NM_146790]	NM_146790	1.01608
Mus musculus protein-tyrosine sulfotransferase 1 (Tpst1), mRNA [NM_013837]	NM_013837	-1.21414
Unknown		-1.4629
Mus musculus RIKEN cDNA 2610209M04 gene (2610209M04Rik), mRNA [NM_025665]	NM_025665	-1.41093
Solute carrier family 30 (zinc transporter), member 1	AK048209	-1.3363
Mus musculus olfactory receptor 33 (Olfr33), mRNA [NM_147073]	NM_147073	1.03351
Mus musculus RIKEN cDNA 2310022B05 gene (2310022B05Rik), mRNA [NM_175149]	NM_175149	1.02399
Mus musculus olfactory receptor 135 (Olfr135), mRNA [NM_146332]	NM_146332	1.18824
Mus musculus lysosomal membrane glycoprotein 1 (Lamp1), mRNA [NM_010684]	NM_010684	-1.1039
Mus musculus RIKEN cDNA 2310035C23 gene (2310035C23Rik), mRNA [NM_173187]	NM_173187	-1.34862
NifU-like N-terminal domain containing	NM_025526	-1.29535
Mus musculus cDNA sequence BC061928 (BC061928), mRNA [NM_172861]	NM_172861	1.0725
Mus musculus RIKEN cDNA C230078M08 gene (C230078M08Rik), mRNA [NM_176995]	NM_176995	-1.01671
Mus musculus nucleotide binding protein 2 (Nubp2), mRNA [NM_011956]	NM_011956	-1.00022
Mus musculus RIKEN cDNA 1300013D05 gene (1300013D05Rik), mRNA [NM_026186]	NM_026186	-1.01464
Mus musculus aquaporin 6 (Aqp6), mRNA [NM_175087]	NM_175087	1.00573
Mus musculus suppressor of cytokine signaling 2 (Socs2), mRNA [NM_007706]	NM_007706	-1.25858
Mus musculus immediate early response 5 (Ier5), mRNA [NM_010500]	NM_010500	-1.29984
Mus musculus glycoprotein A33 (transmembrane) (Gpa33), mRNA [NM_021610]	NM_021610	-1.34284
Mus musculus RIKEN cDNA 4930506L13 gene (4930506L13Rik), mRNA [NM_030188]	NM_030188	-1.10726
Mus musculus ribosomal protein L14 (Rpl14), mRNA [NM_025974]	NM_025974	-1.08411

Mus musculus 3-oxoacid CoA transferase 1 (Oxct1), mRNA [NM_024188]	NM_024188	1.08092
Membrane-associated ring finger (C3HC4) 5	NM_027314	-1.51661
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK016435		1.22602
Mus musculus splicing factor, arginine/serine-rich 3 (SRp20) (Sfrs3), mRNA [NM_013663]	NM_013663	-1.48818
GTL2, imprinted maternally expressed untranslated mRNA	AK018142	1.02512
Mus musculus ring finger protein 1 (Ring1), mRNA [NM_009066]	NM_009066	1.1595
Mus musculus caveolin, caveolae protein (Cav), mRNA [NM_007616]	NM_007616	-1.53728
hypothetical protein D430020F16	NM_172902	-1.00393
Mus musculus aldo-keto reductase family 1, member C21 (Akr1c21), mRNA [NM_029901]	NM_029901	1.102
Mus musculus kinesin family member 3A (Kif3a), mRNA [NM_008443]	NM_008443	-1.14397
Mus musculus insulin induced gene 2 (Insig2), mRNA [NM_133748]	NM_133748	-1.47106
RIKEN cDNA 5330439J01 gene	AK042951	-1.09048
Mus musculus tuftelin 1 (Tuft1), mRNA [NM_011656]	NM_011656	1.04079
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK016058		1.12577
Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 4 (Dnajc4), mRNA [NM_020566]	NM_020566	-1.00581
Mus musculus PDZ and LIM domain 2 (Pdlim2), mRNA [NM_145978]	NM_145978	1.10389
Mus musculus naked cuticle 1 homolog (Drosophila) (Nkd1), mRNA [NM_027280]	NM_027280	-1.26038
RIKEN cDNA 4921524J06 gene	AK029878	1.04767
Mus musculus septin 9 (Sept9), mRNA [NM_017380]	NM_017380	1.09253
RIKEN cDNA A630055G03 gene	AK080331	1.09305
prolactin like protein O	NM_026206	1.06718
Tumor suppressing subtransferable candidate 1	AK034313	1.00376
cancer related gene-liver 1	NM_139306	1.02981
RIKEN cDNA C730027P07 gene	BC048726	-1.06971
Mus musculus solute carrier family 14 (urea transporter), member 2 (Slc14a2), t	NM_030683	1.23736
Mus musculus mitogen activated protein kinase kinase 7 (Map2k7), mRNA [NM_011944]	NM_011944	-1.06695
Mus musculus RIKEN cDNA 3110043J09 gene (3110043J09Rik), mRNA [NM_028455]	NM_028455	1.02959
Protocadherin 11 X-linked	AK039071	1
Mus musculus DNA segment, Chr 1, ERATO Doi 161, expressed (D1Ert161e),	NM_026187	1.06894
Mus musculus pleckstrin homology domain containing, family A (phosphoinositide	NM_148927	-1.03877
RIKEN cDNA 1110032D12 gene	AK089965	-1.41469
CDNA clone MGC:12079 IMAGE:3708702, complete cds	BC006743	1.01683
Mus musculus cyclin B1 (Ccnb1), mRNA [NM_172301]	NM_172301	1.00217
Mus musculus RIKEN cDNA 4930429M06Rik (4930429M06Rik), mRNA [NM_026250]	NM_026250	-1.23607
Mus musculus protein tyrosine phosphatase, non-receptor type 13 (Ptpn13), mF	NM_011204	-1.34489
Mus musculus paraspeckle protein 1 (Pspc1), mRNA [NM_025682]	NM_025682	-1.54913
Protein phosphatase 1, regulatory (inhibitor) subunit 12C	AK046570	1.13128
Mus musculus Ras-related GTP binding C (Rragc), mRNA [NM_017475]	NM_017475	-1.14236
Neoplastic progression 3	NM_029688	1.01478
Mus musculus homeo box D4 (Hoxd4), mRNA [NM_010469]	NM_010469	1.06715
Mus musculus MARVEL (membrane-associating) domain containing 3 (Mrvldc3	NM_028584	-1.00991
Mus musculus RIKEN cDNA 1190003K14 gene (1190003K14Rik), mRNA [NM_026862]	NM_026862	1.14567
OLFACTORY RECEPTOR GA_X6K02T2PSCP-1637650-1636712 (FRAGMENT). [Source:SP		-1.00338
Cytochrome P450, family 4, subfamily x, polypeptide 1	AK038526	1.05462
Mus musculus cytochrome P450, family 26, subfamily b, polypeptide 1 (Cyp26b	NM_175475	1.02545
Protein phosphatase 2, regulatory subunit B (B56), gamma isoform	AK006312	1.21073
Mus musculus DnaJ (Hsp40) homolog, subfamily B, member 3 (Dnajb3), mRNA	NM_008299	1.0254
Mus musculus DNA methyltransferase 2 (Dnmt2), mRNA [NM_010067]	NM_010067	-1.09937
Mus musculus zinc finger protein 131 (Zfp131), mRNA [NM_028245]	NM_028245	-1.13051
Mus musculus neuropilin (Nrp), mRNA [NM_008737]	NM_008737	-1.05944
Mus musculus zinc finger protein 282 (Zfp282), mRNA [NM_146175]	NM_146175	1.24836
Kinesin family member 14	AB001431	1.03219

Mus musculus mitochondrial ribosomal protein L43 (Mrpl43), nuclear gene	enco NM_053164	-1.12052
RIKEN cDNA 1500032L24 gene	BC028457	-1.09269
Mus musculus cDNA sequence BC028799 (BC028799), mRNA [XM_135033]	XM_135033	-1.07357
Mus musculus PCTAIRE-motif protein kinase 1 (Pctk1), mRNA [NM_011049]	NM_011049	1.03178
Mus musculus serine (or cysteine) proteinase inhibitor, clade H, member 1 (SerpinH1), mRNA [NM_009825]	NM_009825	-1.11489
Mus musculus myeloid leukemia factor 1 (Mlf1), mRNA [NM_010801]	NM_010801	-1.4927
RIKEN cDNA 1700112E06 gene	AK007175	-1.10425
Mus musculus olfactory receptor 1038 (Olfr1038), mRNA [NM_147013]	NM_147013	1.07875
Mus musculus solute carrier family 10, member 2 (Slc10a2), mRNA [NM_011388]	NM_011388	1.00483
Histone deacetylase 9	BC067061	1.01797
Zinc finger, A20 domain containing 1	BC037040	1.05227
RIKEN cDNA 4930553J12 gene	AK016107	1.06603
RIKEN cDNA 4732407F15 gene	AK028682	-1.06761
Mus musculus chymotrypsin-like (Ctrl), mRNA [NM_023182]	NM_023182	1.0527
Mus musculus RIKEN cDNA 0610009H04 gene (0610009H04Rik), mRNA [NM_018854]	NM_018854	-1.64508
Mus musculus mRNA, complete cds, clone:1-53.	AB030188	1.05784
Mus musculus keratin associated protein 12-1 (Krtap12-1), mRNA [NM_010670]	NM_010670	1.07692
Mus musculus dual specificity phosphatase 22 (Dusp22), mRNA [NM_134068]	NM_134068	-1.21242
Mus musculus expressed sequence A1841794 (A1841794), mRNA [NM_172492]	NM_172492	1.0218
BAT2 domain containing 1	AK030766	1.01668
Torsin family 1, member A (torsin A)	NM_144884	-1.18256
RIKEN cDNA E030037J05 gene	AK053112	1.15202
Formyltetrahydrofolate dehydrogenase	NM_027406	1.18817
RIKEN cDNA C530049I24 gene	AB093212	-1.78705
Inositol polyphosphate multikinase	AK036084	-1.09515
Mus musculus olfactory receptor 173 (Olfr173), mRNA [NM_147000]	NM_147000	1.09714
Mus musculus lymphoid-restricted membrane protein (Lrmp), mRNA [NM_008511]	NM_008511	1.14789
Mus musculus microtubule-associated protein 1 B (Mtap1b), mRNA [NM_008634]	NM_008634	1.0553
timeless interacting protein	NM_025372	-1.30164
RIKEN cDNA 8030423J24 gene	AK020194	1.03012
RIKEN cDNA A430061O12 gene	AK040105	-1.38366
Mus musculus olfactory receptor 692 (Olfr692), mRNA [NM_146355]	NM_146355	1.04745
Mus musculus forkhead box E3 (Foxe3), mRNA [NM_015758]	NM_015758	1.17469
CDNA sequence BC016423	AF020338	1.11051
Mus musculus sine oculis-related homeobox 2 homolog (Drosophila) (Six2), mRNA [NM_011380]	NM_011380	1.02602
Mus musculus adult male pituitary gland cDNA, RIKEN full-length enriched library clone:1-53.	AK030489	1.08534
Mus musculus c-fos induced growth factor (Figf), mRNA [NM_010216]	NM_010216	-1.11388
Mus musculus kinesin family member 11 (Kif11), mRNA [NM_010615]	NM_010615	1.04101
Mus musculus H6 homeo box 1 (Hmx1), mRNA [NM_010445]	NM_010445	1.02011
Mus musculus 5'-3' exoribonuclease 1 (Xrn1), mRNA [NM_011916]	NM_011916	1.11039
Mus musculus dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4 (Ltk), mRNA [NM_207210]	NM_207210	1.09393
Mus musculus 18-day embryo whole body cDNA, RIKEN full-length enriched library clone:1-53.	AK004524	1.07491
Mus musculus cytochrome P450, family 1, subfamily b, polypeptide 1 (Cyp1b1), mRNA [NM_009994]	NM_009994	-1.21935
Mus musculus protease, serine, 2 (Prss2), mRNA [NM_009430]	NM_009430	1.1144
Mus musculus malignant T cell amplified sequence 1 (Mcts1), mRNA [NM_026902]	NM_026902	1.06511
Mus musculus caspase recruitment domain family, member 11 (Card11), mRNA [NM_175362]	NM_175362	-1.05768
Mus musculus olfactory receptor 273 (Olfr273), mRNA [NM_146824]	NM_146824	1.02122
Mus musculus heat shock protein 8 (Hspa8), mRNA [NM_031165]	NM_031165	-1.21128
Mus musculus asialoglycoprotein receptor 1 (Asgr1), mRNA [NM_009714]	NM_009714	1.24684
Mus musculus 16 days neonate cerebellum cDNA, RIKEN full-length enriched library clone:1-53.	AK079341	1.05875
Mus musculus myocilin (Myoc), mRNA [NM_010865]	NM_010865	1.04296
Mus musculus dishevelled, dsh homolog 1 (Drosophila) (Dvl1), mRNA [NM_010091]	NM_010091	1.05367

Mus musculus olfactory receptor 1008 (Olfr1008), mRNA [NM_146866]	NM_146866	1.09182
Mus musculus glycine receptor, alpha 3 subunit (Gla3), mRNA [NM_080438]	NM_080438	1.36907
RIKEN cDNA 4930592A05 gene	AK016384	1.06296
Mus musculus Iroquois related homeobox 3 (Drosophila) (Irx3), mRNA [NM_008393]	NM_008393	1.26836
Mus musculus galactose-1-phosphate uridyl transferase (Galt), mRNA [NM_016658]	NM_016658	-1.15084
RGM domain family, member B	AK030386	-1.04691
Mus musculus myosin Va (Myo5a), mRNA [NM_010864]	NM_010864	-1.0369
Mus musculus LSM5 homolog, U6 small nuclear RNA associated (S. cerevisiae)	NM_025520	-1.14683
Copine IV	AK016705	-1.06019
Mus musculus phosphatidylinositol-4-phosphate 5-kinase, type II, alpha (Pip5k2)	NM_008845	1.44232
RIKEN cDNA 1300001I01 gene	BC061500	1.0777
Mus musculus prolactin regulatory element binding (Preb), mRNA [NM_016703]	NM_016703	-1.36005
Mus musculus RIKEN cDNA 1300019C06 gene (1300019C06Rik), mRNA [NM_025832]	NM_025832	-1.48496
Unknown		-1.20494
Mus musculus RIKEN cDNA 5830435K17 gene (5830435K17Rik), mRNA [NM_175318]	NM_175318	-1.08172
Mus musculus calcium binding protein 5 (Cabp5), mRNA [NM_013877]	NM_013877	-1.12035
Mus musculus hypothetical protein 6030449J21 (6030449J21), mRNA [NM_172817]	NM_172817	1.04258
Mus musculus translocase of inner mitochondrial membrane 23 homolog (yeast)	NM_016897	-1.45649
Mus musculus glycoprotein hormones, alpha subunit (Cga), mRNA [NM_009889]	NM_009889	1.06941
Mus musculus cell division cycle 45 homolog (S. cerevisiae)-like (Cdc45l), mRNA [NM_009862]	NM_009862	1.01945
Mus musculus olfactory receptor 122 (Olfr122), mRNA [NM_146288]	NM_146288	-1.00362
Mus musculus defensin beta 9 (Defb9), mRNA [NM_139219]	NM_139219	1.01757
RIKEN cDNA A630018P17 gene	AK041519	-1.08178
Mus musculus aquaporin 11 (Aqp11), mRNA [NM_175105]	NM_175105	-1.02689
Mus musculus RIKEN cDNA 4932439K10 gene (4932439K10Rik), mRNA [NM_153406]	NM_153406	1.26644
RIKEN cDNA C330018J07 gene	BC008232	-1.36461
Talin 2	AK052301	1.14359
Mus musculus RIKEN cDNA 2210404G23 gene (2210404G23Rik), mRNA [NM_025958]	NM_025958	1.06022
DNA segment, Chr 8, ERATO Doi 594, expressed	AK008821	1.09658
Mus musculus paired box gene 2 (Pax2), mRNA [NM_011037]	NM_011037	1.2082
Mus musculus vomeronasal 1 receptor, D1 (V1rd1), mRNA [NM_030742]	NM_030742	-1.01436
Mus musculus RIKEN cDNA 4930548H24 gene (4930548H24Rik), mRNA [NM_026296]	NM_026296	-1.0549
Mus musculus myeloblastosis oncogene (Myb), mRNA [NM_033597]	NM_033597	-1.08623
Mus musculus copine V (Cpne5), mRNA [NM_153166]	NM_153166	1.03439
Mus musculus RIKEN cDNA 2610528O22 gene (2610528O22Rik), mRNA [NM_153395]	NM_153395	-1.12671
Mus musculus bifunctional apoptosis regulator (Bfar), mRNA [NM_025976]	NM_025976	-1.17395
Eukaryotic translation elongation factor 1 gamma	AK011951	-1.06766
RIKEN cDNA 1810015A11 gene	AK032396	1.25526
Mus musculus RIKEN cDNA 2210409D07 gene (2210409D07Rik), mRNA [XM_358519]	XM_358519	1.16491
Mus musculus complement component 1, s subcomponent (C1s), mRNA [NM_144938]	NM_144938	-1.05549
Mus musculus Nedd4 family interacting protein 2 (Ndfip2), mRNA [NM_029561]	NM_029561	-1.45303
Mus musculus RIKEN cDNA 1110006G06 gene (1110006G06Rik), mRNA [NM_028661]	NM_028661	1.0717
Mus musculus WD repeat domain 11 (Wdr11), mRNA [NM_172255]	NM_172255	-1.03354
SLIT and NTRK-like family, member 1	AK014285	1.65568
DEP domain containing 2	AK018093	-1.06503
CDNA sequence BC022150	BC022150	-1.09246
Mus musculus arachidonate 12-lipoxygenase, 12R type (Alox12b), mRNA [NM_009659]	NM_009659	1.07035
Mus musculus RIKEN cDNA 1300018I05 gene (1300018I05Rik), mRNA [NM_028791]	NM_028791	1.07121
Mus musculus hypothetical protein 9030019H09 (9030019H09), mRNA [XM_13139515]	XM_13139515	1.06663
Mus musculus adrenergic receptor, alpha 1a (Adra1a), mRNA [NM_013461]	NM_013461	1.06781
Mus musculus phosphatidylserine synthase 2 (Ptdss2), mRNA [NM_013782]	NM_013782	1.04568
Mus musculus RIKEN cDNA 1200003C05 gene (1200003C05Rik), mRNA [NM_024205]	NM_024205	-1.25654

Mus musculus interleukin 15 receptor, alpha chain (Il15ra), mRNA [NM_008358]	NM_008358	1.14551
Expressed sequence AI746471	AK085009	-1.03832
Mus musculus olfactory receptor 414 (Olfr414), mRNA [NM_146761]	NM_146761	1.1497
Mus musculus exosome component 3 (Exosc3), mRNA [NM_025513]	NM_025513	-1.44468
Mus musculus cDNA sequence BC034076 (BC034076), mRNA [NM_177649]	NM_177649	-1.10604
Mus musculus claudin 17 (Cldn17), mRNA [NM_181490]	NM_181490	-1.03007
RIKEN cDNA 1600012P17 gene	AK005436	-1.00513
Mus musculus RAS p21 protein activator 2 (Rasa2), mRNA [NM_053268]	NM_053268	1.36582
Mus musculus kidney androgen regulated protein (Kap), mRNA [NM_010594]	NM_010594	1.01419
Mus musculus ubiquitously transcribed tetratricopeptide repeat gene, Y chromo:	NM_009484	-1.21264
Mus musculus vomeronasal 1 receptor, D3 (V1rd3), mRNA [NM_030740]	NM_030740	1.09335
Dynamamin 1-like	AK051443	-1.47285
Apoptotic protease activating factor 1	AK018076	-1.12048
Mus musculus microsomal glutathione S-transferase 2 (Mgst2), mRNA [NM_174995]	NM_174995	-1.10886
Mus musculus RIKEN cDNA F830020C16 gene (F830020C16Rik), mRNA [NM_177338]	NM_177338	1.01948
Phosphorylase kinase alpha 2	AK051899	-1.03438
Diaphanous homolog 2 (Drosophila)	AK083254	1.07171
Mus musculus Scm-like with four mbt domains 1 (Sfmbt1), mRNA [NM_019460]	NM_019460	-1.0488
Mus musculus olfactory receptor 1125 (Olfr1125), mRNA [NM_147028]	NM_147028	-1.00444
Mus musculus creatine kinase, mitochondrial 1, ubiquitous (Ckmt1), mRNA [NM_009897]	NM_009897	1.06124
Mus musculus cysteine rich protein 61 (Cyr61), mRNA [NM_010516]	NM_010516	-1.1027
Mus musculus integrin, alpha 11 (Itga11), mRNA [NM_176922]	NM_176922	1.02255
Mus musculus phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 2 (p115)	NM_008841	1.17983
Mus musculus RIKEN cDNA 2210413P12 gene (2210413P12Rik), mRNA [NM_145977]	NM_145977	1.01588
Mus musculus adult male diencephalon cDNA, RIKEN full-length enriched library	AK079078	1.39195
RIKEN cDNA E330005K07 gene	AK017309	-1.08567
Mus musculus single-minded 1 (Sim1), mRNA [NM_011376]	NM_011376	1
Mus musculus chromobox homolog 1 (Drosophila HP1 beta) (Cbx1), mRNA [NM_007622]	NM_007622	-1.17813
Mus musculus cDNA sequence BC035954 (BC035954), mRNA [NM_177569]	NM_177569	-1.59151
Mus musculus cDNA clone MGC:7593 IMAGE:3493893, complete cds [BC0040BC004015]	BC004015	-1.03529
Mus musculus oxysterol binding protein-like 11 (Osbp11), mRNA [NM_176840]	NM_176840	-1.20385
Mus musculus glutathione S-transferase kappa 1 (Gstk1), mRNA [NM_029555]	NM_029555	-1.13242
Mus musculus expressed sequence AI461653 (AI461653), mRNA [NM_178920]	NM_178920	-1.75931
Mus musculus RIKEN cDNA B830028P19 gene (B830028P19Rik), mRNA [NM_172998]	NM_172998	-1.19559
Mus musculus blocked early in transport 1 homolog (S. cerevisiae)-like (Bet1), mRNA [NM_018742]	NM_018742	-1.11947
Mus musculus WW domain binding protein 5 (Wbp5), mRNA [NM_011712]	NM_011712	-1.24448
Mus musculus RecQ protein-like 4 (Recql4), mRNA [NM_058214]	NM_058214	-1.35299
Mus musculus cDNA sequence BC026799 (BC026799), mRNA [NM_173439]	NM_173439	1.01711
Mus musculus olfactory receptor 1353 (Olfr1353), mRNA [NM_147042]	NM_147042	1.00984
Transient receptor potential cation channel, subfamily M, member 6	AK080899	1.08186
Mus musculus zinc finger protein 239 (Zfp239), transcript variant 1, mRNA [NM_00100179]	NM_00100179	1.0192
Zinc finger protein, subfamily 1A, 4 (Eos)	AK041640	1.06972
Mus musculus cDNA sequence BC029109 (BC029109), mRNA [NM_153573]	NM_153573	-1.06941
RIKEN cDNA 2810441K11 gene	AK080725	-1.31568
Mus musculus NIMA (never in mitosis gene a)-related expressed kinase 9 (Nek1)	NM_145138	-1.04189
Meteorin, glial cell differentiation regulator	AK087402	-1.71989
Mus musculus activator of basal transcription (Abt1), mRNA [NM_013924]	NM_013924	-1.05994
Mus musculus troponin C2, fast (Tnnc2), mRNA [NM_009394]	NM_009394	-1.14309
RIKEN cDNA 2310016N21 gene	NM_023784	1.10061
Mus musculus mast cell protease 2 (Mcpt2), mRNA [NM_008571]	NM_008571	1.06027
RIKEN cDNA A530023G15 gene	AK040761	1.05406
Mus musculus paired like homeodomain factor 1 (Prop1), mRNA [NM_008936]	NM_008936	1.09921

Mus musculus kallikrein 4 (prostase, enamel matrix, prostate) (Klk4), mRNA [NM_019928]	NM_019928	1.12834
Melanocortin 2 receptor accessory protein	NM_029844	-1.17747
Mus musculus glutathione S-transferase, mu 5 (Gstm5), mRNA [NM_010360]	NM_010360	-1.11178
Mus musculus RAB, member of RAS oncogene family-like 5 (Rab15), mRNA [NM_026073]	NM_026073	-1.03152
Mus musculus G protein-coupled receptor 27 (Gpr27), mRNA [NM_008158]	NM_008158	-1.11753
Transcribed locus	AV241729	1.05833
Mus musculus keratin complex 1, acidic, gene 23 (Krt1-23), mRNA [NM_033373]	NM_033373	-1.04468
Mus musculus interleukin 17 (Il17), mRNA [NM_010552]	NM_010552	1.16916
Mus musculus leucine-rich alpha-2-glycoprotein 1 (Lrg1), mRNA [NM_029796]	NM_029796	1.03825
Cadherin-like 24	AK006648	1.09189
Mus musculus SMC (structural maintenance of chromosomes 1)-like 1 (S. cerevisiae)	NM_019710	-1.25259
Plectin 1	AK046755	1.09102
Mus musculus hypothetical protein 8030476J24 (8030476J24), mRNA [NM_177745]	NM_177745	1.10916
Mus musculus tyrosinase (Tyr), mRNA [NM_011661]	NM_011661	1.055
Chloride channel calcium activated 6	AK033591	1.05971
Mus musculus RIKEN cDNA 1300002A08 gene (1300002A08Rik), mRNA [NM_025827]	NM_025827	-1.10233
Mus musculus tumor protein D52-like 1 (Tpd52l1), mRNA [NM_009413]	NM_009413	-1.1436
Mus musculus placental protein 11 related (Pp11r), mRNA [NM_008902]	NM_008902	-1.13225
Mus musculus RIKEN cDNA 1810044A24 gene (1810044A24Rik), mRNA [NM_029640]	NM_029640	-1.01668
RIKEN cDNA 1500031N24 gene	AK016133	1.06457
dynein 2 light intermediate chain	NM_172256	-1.62324
Mus musculus RIKEN cDNA 2610024G14 gene (2610024G14Rik), mRNA [NM_019836]	NM_019836	1.06457
RIKEN cDNA C330007P06 gene	AK035825	-1.62291
Mus musculus cadherin 16 (Cdh16), mRNA [NM_007663]	NM_007663	-1.05369
Mus musculus vaccinia related kinase 1 (Vrk1), mRNA [NM_011705]	NM_011705	-1.43862
Mus musculus dihydropyrimidinase-like 5 (Dpysl5), mRNA [NM_023047]	NM_023047	-1.09221
Mus musculus nucleotide binding protein 1 (Nubp1), mRNA [NM_011955]	NM_011955	-1.07254
Mus musculus IK cytokine (Ik), mRNA [NM_011879]	NM_011879	-1.40272
RIKEN cDNA 2310005N01 gene	BC061024	1.02731
Churchill domain containing 1	BC019472	-1.03665
Mus musculus regenerating islet-derived 3 gamma (Reg3g), mRNA [NM_011260]	NM_011260	-1.20823
Mus musculus RIKEN cDNA G430055L02 gene (G430055L02Rik), mRNA [NM_145520]	NM_145520	-1.28651
Mus musculus vomeronasal 1 receptor, A6 (V1ra6), mRNA [NM_053221]	NM_053221	1.02436
Integrin, alpha 10	AK037222	1.04453
Mus musculus vascular endothelial growth factor A (Vegfa), mRNA [NM_009505]	NM_009505	1.02475
WW domain binding protein 7	AK011392	1.28573
Mus musculus RIKEN cDNA 3110023B02 gene (3110023B02Rik), mRNA [NM_152807]	NM_152807	-1.14312
Mus musculus RIKEN cDNA 9830132G07 gene (9830132G07Rik), mRNA [NM_172643]	NM_172643	-1.27097
Polymerase (RNA) III (DNA directed) polypeptide G	AK049789	-1.03622
Mus musculus ATPase, H ⁺ transporting, V1 subunit C, isoform 2 (Atp6v1c2), mRNA [NM_133699]	NM_133699	-1.17536
Mus musculus kallikrein 6 (Klk6), mRNA [NM_010639]	NM_010639	-1.02688
Mus musculus serum amyloid P-component (Apcs), mRNA [NM_011318]	NM_011318	1.07363
Peptidyl-prolyl isomerase G (cyclophilin G)	BC048905	-1.08062
Mus musculus solute carrier family 4 (anion exchanger), member 4 (Slc4a4), mRNA [NM_018760]	NM_018760	1.01845
Fucosyltransferase 10	AK083041	1.04257
Mus musculus sterile alpha motif domain containing 11 (Samd11), mRNA [NM_173736]	NM_173736	1.15909
Mus musculus solute carrier family 24 (sodium/potassium/calcium exchanger), member 24 (Slc24a2), mRNA [NM_133221]	NM_133221	1.03562
RIKEN cDNA 2210406O10 gene	AK008838	-1.11819
Mus musculus olfactory receptor 1036 (Olfr1036), mRNA [NM_207142]	NM_207142	-1.00131
Mus musculus RIKEN cDNA A830007P12 gene (A830007P12Rik), mRNA [NM_146115]	NM_146115	-1.04036
Mus musculus RIKEN cDNA 1300004C11 gene (1300004C11Rik), mRNA [NM_027901]	NM_027901	1.02838
Mus musculus ribosomal protein L27a (Rpl27a), mRNA [NM_011975]	NM_011975	-1.49811

M.musculus Cux mRNA for homeodomain protein.	X75013	1.06003
Methyl CpG binding protein 2	NM_010788	-1.02448
Mus musculus baculoviral IAP repeat-containing 1b (Birc1b), mRNA [NM_01087NM_010872		-1.16416
Trinucleotide repeat containing 15	BC006835	1
Mus musculus RIKEN cDNA 0610010I17 gene (0610010I17Rik), mRNA [NM_0:NM_025798		-1.08858
Mus musculus RIKEN cDNA 2410004C24 gene (2410004C24Rik), mRNA [NM_NM_133678		1.11917
Mus musculus T-box 5 (Tbx5), mRNA [NM_011537]	NM_011537	1.10877
Mus musculus histocompatibility 2, T region locus 3 (H2-T3), mRNA [NM_00820NM_008208		-1.1149
Mus musculus keratin associated protein 14 (Krtap14), mRNA [NM_013707]	NM_013707	1.07171
Mus musculus procollagen, type IX, alpha 2 (Col9a2), mRNA [NM_007741]	NM_007741	1.06872
Mus musculus hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme	NM_145558	-1.1046
RIKEN cDNA D630002J15 gene	AK021320	-1.14605
Mus musculus yippee-like 1 (Drosophila) (Ypel1), mRNA [NM_023249]	NM_023249	-1.13171
Mus musculus vomeronasal 2, receptor, 16 (V2r16), mRNA [NM_009491]	NM_009491	-1.2501
Mus musculus breast cancer anti-estrogen resistance 1 (Bcar1), mRNA [NM_00NM_009954		1.24154
Oxoglutarate (alpha-ketoglutarate) receptor 1	AK085382	-1.05471
Mus musculus polo-like kinase 3 (Drosophila) (Plk3), mRNA [NM_013807]	NM_013807	1.01975
Mus musculus interleukin 24 (Il24), mRNA [NM_053095]	NM_053095	1.0378
Mus musculus RIKEN cDNA A530023O14 gene (A530023O14Rik), mRNA [NM_NM_175648		-1.02564
RIKEN cDNA 4930420O11 gene	AK048462	-1.01648
RIKEN cDNA 1700104B16 gene	AK018937	1.04957
RIKEN cDNA C530008M07 gene	AK049628	1.3583
Mus musculus regulator of G-protein signaling 14 (Rgs14), mRNA [NM_016758]NM_016758		-1.07634
Mus musculus cullin 2 (Cul2), mRNA [NM_029402]	NM_029402	-1.01886
Mus musculus RIKEN cDNA 2310042P20 gene (2310042P20Rik), mRNA [NM_NM_028003		-1.14922
Mus musculus SEC63-like (S. cerevisiae) (Sec63), mRNA [NM_153055]	NM_153055	-1.19281
RIKEN cDNA 4930507A01 gene	AK016354	-1.02193
Activating transcription factor 6	AK036335	1.00754
Interferon regulatory factor 2 binding protein 2	AK087491	-1.007
RIKEN cDNA 4930449A18 gene	AK015427	-1.03029
Acyl-CoA synthetase long-chain family member 1	BC006692	-1.36783
RIKEN cDNA A630054L15 gene	AK080327	-1.21655
Mus musculus drebrin-like (Dbrn1), mRNA [NM_013810]	NM_013810	-1.03675
RIKEN cDNA D730027C18 gene	AK050694	1.03022
Myosin, heavy polypeptide 8, skeletal muscle, perinatal	AK029328	1.39737
Mus musculus enhancer of rudimentary homolog (Drosophila) (Erh), mRNA [NM_NM_007951		-1.56626
Mus musculus metallothionein 4 (Mt4), mRNA [NM_008631]	NM_008631	-1.26986
RIKEN cDNA 5730485H21 gene	AV241894	-1.207
Mus musculus RIKEN cDNA 9030616D13 gene (9030616D13Rik), mRNA [NM_NM_177834		1.0667
Mus musculus 10 days lactation, adult female mammary gland cDNA, RIKEN fu	AK085720	1.17481
RIKEN cDNA 2900024P20 gene	AK013596	-1.09198
Mus musculus cDNA sequence AF366264 (AF366264), mRNA [NM_153093]	NM_153093	-1.07508
Mus musculus laminin, beta 3 (Lamb3), mRNA [NM_008484]	NM_008484	1.35775
Adult male hypothalamus cDNA, RIKEN full-length enriched library, clone:A230(	AK038550	1.01408
RIKEN cDNA 5430427O19 gene	AK017351	-1.42896
Mus musculus mitogen-activated protein kinase kinase kinase kinase 5 (Map4k4	NM_024275	-1.43977
Mus musculus RIKEN cDNA 2700017I06 gene (2700017I06Rik), mRNA [NM_1:NM_172475		1.04073
G protein-coupled receptor 146	AK019591	1.053
Mus musculus cleavage and polyadenylation specific factor 2 (Cpsf2), mRNA [NM_016856		1.12526
Mus musculus cathepsin E (Ctse), mRNA [NM_007799]	NM_007799	1.08587
Mus musculus RIKEN cDNA 1700022N24 gene (1700022N24Rik), mRNA [NM_NM_145355		-1.07098
Mus musculus olfactory receptor 1095 (Olfr1095), mRNA [NM_146730]	NM_146730	1.05734

Mus musculus RIKEN cDNA 1110030L07 gene (1110030L07Rik), mRNA [NM_178614]	NM_178614	1.0416
Mus musculus myosin VIIb (Myo7b), mRNA [NM_032394]	NM_032394	-1.04597
UPF3 regulator of nonsense transcripts homolog B (yeast)	AK019989	-1.24676
Mediator of RNA polymerase II transcription, subunit 9 homolog (yeast)	NM_138675	-1.02597
RIKEN cDNA 2610206C17 gene	AK011897	-1.0202
Mus musculus protein tyrosine phosphatase, receptor type, f polypeptide (PTPRXM_129443)	PTPRXM_129443	-1.04997
Mus musculus butyrophilin, subfamily 1, member A1 (Btn1a1), mRNA [NM_013483]	NM_013483	-1.06382
Mus musculus testis expressed gene 21 (Tex21), mRNA [NM_019784]	NM_019784	1.07739
Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 40 (Dhx40), mRNA [NM_026191]	NM_026191	-1.57346
RIKEN cDNA 4930443G12 gene	AK015371	-1.01207
RIKEN cDNA 2010209O12 gene	BC019714	1.07411
Mus musculus folate receptor 2 (fetal) (Folr2), mRNA [NM_008035]	NM_008035	-1.10215
Mus musculus ankyrin repeat and SOCS box-containing protein 3 (Asb3), mRNA [NM_023906]	NM_023906	-1.30792
vesicle docking protein	NM_019490	-1.00052
Proteasome (prosome, macropain) 26S subunit, ATPase, 6	BC057997	-1.50983
Mus musculus tripartite motif protein 17 (Trim17), mRNA [NM_031172]	NM_031172	1.06602
Mus musculus forkhead box A1 (Foxa1), mRNA [NM_008259]	NM_008259	-1.21474
Phosphoserine/threonine/tyrosine interaction protein	U34973	1.01997
Mus musculus nuclear factor of kappa light chain gene enhancer in B-cells inhib	NM_010908	-1.00129
Mus musculus olfactory receptor 186 (Olf186), mRNA [NM_146321]	NM_146321	1.05188
Mus musculus cadherin 8 (Cdh8), mRNA [NM_007667]	NM_007667	-1.04182
similar to 60S ribosomal protein L7a (Surfeit locus protein 3) (PLA-X polypeptide	AK030194	-1.16172
hypothetical protein 4930474N05	NM_175008	1.00102
RIKEN cDNA 1700014N06 gene	AK005982	1.16485
RIKEN cDNA 2310022K01 gene	AK009476	1.08069
Mus musculus testicular cell adhesion molecule 1 (Tcam1), mRNA [NM_029467]	NM_029467	-1.01613
Mus musculus keratin complex 1, acidic, gene 24 (Krt1-24), mRNA [NM_016880]	NM_016880	1.06841
Mus musculus RIKEN cDNA 4930547C10 gene (4930547C10Rik), mRNA [NM_026652]	NM_026652	-1.0096
Unknown		1.17996
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK016980	AK016980	1.06552
Zinc finger protein 60	AK083796	1.10906
RIKEN cDNA E230022H04 gene	AK030009	1.02837
Mus musculus leukocyte receptor cluster (LRC) member 5 (Leng5), mRNA [NM_024168]	NM_024168	1.05889
RIKEN cDNA 5830467P10 gene	BC029093	1.00013
Mus musculus calpain, small subunit 1 (Capns1), mRNA [NM_009795]	NM_009795	1.12694
Mus musculus RIKEN cDNA 4932703L02 gene (4932703L02Rik), mRNA [NM_172865]	NM_172865	1.19841
Mus musculus Fyn proto-oncogene (Fyn), mRNA [NM_008054]	NM_008054	-1.01601
Mus musculus similar to G protein coupled receptor 7 (LOC226304), mRNA [XM_136404]	XM_136404	1.10075
Mus musculus microspherule protein 1 (Mcrs1), mRNA [NM_016766]	NM_016766	1.22091
Mus musculus RIKEN cDNA 3110057O12 gene (3110057O12Rik), mRNA [NM_026622]	NM_026622	1.03353
Mus musculus AT rich interactive domain 2 (Arid-rfx like) (Arid2), mRNA [NM_17175251]	NM_17175251	-1.3234
Mus musculus ubiquitin specific protease 28 (Usp28), mRNA [NM_175482]	NM_175482	-1.01715
Mus musculus Wolfram syndrome 1 homolog (human) (Wfs1), mRNA [NM_011716]	NM_011716	-1.10761
DNA segment, Chr 3, ERATO Doi 254, expressed	AK033830	-1.09332
Mus musculus rootletin (LOC230872), mRNA [NM_172122]	NM_172122	-1.06988
Mus musculus formin homology 2 domain containing 1 (Fhod1), mRNA [NM_17177699]	NM_17177699	-1.05306
Mus musculus olfactory receptor 1341 (Olf1341), mRNA [NM_146853]	NM_146853	1.07977
Mus musculus mannoside acetylglucosaminyltransferase 3 (Mgat3), mRNA [NM_010795]	NM_010795	1.06513
Mus musculus cytochrome b-245, beta polypeptide (Cybb), mRNA [NM_007807]	NM_007807	1.04107
Mus musculus olfactory receptor 1497 (Olf1497), mRNA [NM_146741]	NM_146741	-1.01484
Mus musculus pregnancy zone protein (Pzp), mRNA [NM_007376]	NM_007376	-1.17811
AB053301 ALS2CR4 {Homo sapiens}, partial (80%) [TC995160]		-1.16209

Mus musculus histocompatibility 2, D region locus 4 (H2-D4), mRNA [NM_008200]	NM_008200	1.32301
Leucyl-tRNA synthetase	BC006060	-1.03648
Mus musculus LIM domain only 2 (Lmo2), mRNA [NM_008505]	NM_008505	-1.20973
RIKEN cDNA 1200011M11 gene	BC026852	1.03623
Mus musculus cytochrome c oxidase, subunit VI a, polypeptide 2 (Cox6a2), mRNA [NM_009943]	NM_009943	-1.00635
Mus musculus neurogenic differentiation 6 (Neurod6), mRNA [NM_009717]	NM_009717	1.0838
Mus musculus solute carrier family 3 (activators of dibasic and neutral amino acids) (Slc3a3), mRNA [NM_008577]	NM_008577	1.10273
Mus musculus baculoviral IAP repeat-containing 1a (Birc1a), mRNA [NM_008670]	NM_008670	1.09056
Mus musculus G1 to phase transition 1 (Gspt1), mRNA [NM_146066]	NM_146066	-1.118
Mus musculus synovial sarcoma, X breakpoint 2 interacting protein (Ssx2ip), mRNA [NM_138744]	NM_138744	-1.12834
Mus musculus endothelin 3 (Edn3), mRNA [NM_007903]	NM_007903	1.03438
Mus musculus interleukin 21 (Il21), mRNA [NM_021782]	NM_021782	1.12274
Lipin 1	AF180471	1.02389
Hypothetical protein A330042H22	AK009171	-1.14781
Mus musculus RIKEN cDNA 1700029P11 gene (1700029P11Rik), mRNA [NM_025503]	NM_025503	1.07382
Adult male aorta and vein cDNA, RIKEN full-length enriched library, clone:A53001	AK080082	-1.01348
Mus musculus tousel-like kinase 1 (Tlk1), mRNA [NM_172664]	NM_172664	-1.178
regulator of G-protein signaling 19 interacting protein 3	NM_148951	-1.14829
Mus musculus RIKEN cDNA 4932702K14 gene (4932702K14Rik), mRNA [NM_026226]	NM_026226	-1.12173
Mus musculus Notch gene homolog 4 (Drosophila) (Notch4), mRNA [NM_010929]	NM_010929	1.22253
Prefoldin 4	BC065407	-1.32475
Mus musculus procollagen, type XIV, alpha 1 (Col14a1), mRNA [NM_181277]	NM_181277	-1.19635
Mus musculus phosphorylase kinase beta (Phkb), mRNA [NM_199446]	NM_199446	-1.09607
Mus musculus heat shock protein 3 (Hspb3), mRNA [NM_019960]	NM_019960	-1.15885
Mus musculus mitochondrial ribosomal protein S30 (Mrps30), mRNA [NM_021556]	NM_021556	-1.12472
Lectin, mannose-binding 2-like	BC046969	1.04441
Mus musculus annexin A6 (Anxa6), mRNA [NM_013472]	NM_013472	1.16903
Cytochrome P450, family 27, subfamily b, polypeptide 1	AB006034	1.07018
CDNA sequence BC026590	BC062190	1.09324
Mus musculus olfactory receptor 49 (Olfr49), mRNA [NM_010991]	NM_010991	1.04225
Mus musculus myosin VI (Myo6), mRNA [NM_008662]	NM_008662	-1.06608
Mus musculus abhydrolase domain containing 5 (Abhd5), mRNA [NM_026179]	NM_026179	-1.35381
Expressed sequence AW547186	AK031681	-1.02851
Mus musculus olfactory receptor 619 (Olfr619), mRNA [NM_147076]	NM_147076	-1.00549
Mus musculus EPM2A (laforin) interacting protein 1 (Epm2aip1), mRNA [NM_175266]	NM_175266	-1.01131
Mus musculus RIKEN cDNA 1110067D22 gene (1110067D22Rik), mRNA [NM_173752]	NM_173752	-1.14094
Mus musculus RIKEN cDNA 2310031L18 gene (2310031L18Rik), mRNA [NM_026507]	NM_026507	-1.08104
Mus musculus gamma-aminobutyric acid (GABA-C) receptor, subunit rho 1 (Gabra1), mRNA [NM_008075]	NM_008075	1.04771
Mus musculus myotubularin related protein 4 (Mtmr4), mRNA [NM_133215]	NM_133215	-1.16506
Mus musculus checkpoint kinase 1 homolog (S. pombe) (Chek1), mRNA [NM_007691]	NM_007691	-1.0811
Mus musculus sepiapterin reductase (Spr), mRNA [NM_011467]	NM_011467	-1.72341
Mus musculus mRNA for embryonal LTR binding protein, complete cds.	D10584	-1.00069
Mus musculus RIKEN cDNA 2610019P18 gene (2610019P18Rik), mRNA [NM_178612]	NM_178612	-1.29918
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:AK016167	AK016167	-1.03277
Mus musculus DnaJ (Hsp40) homolog, subfamily A, member 3 (Dnaja3), mRNA [NM_023646]	NM_023646	1.06785
Mus musculus RIKEN cDNA 1810036I24 gene (1810036I24Rik), mRNA [NM_026210]	NM_026210	-2.13339
Mus musculus general transcription factor III A (Gtf3a), mRNA [NM_025652]	NM_025652	-1.09838
RIKEN cDNA 2610300B10 gene	AK011942	-1.03645
Mus musculus RNA, U3 small nucleolar interacting protein 2 (Rnu3ip2), mRNA [NM_145620]	NM_145620	1.15734
Mus musculus ATPase, H+ transporting, lysosomal V0 subunit A isoform 4 (Atp13a4), mRNA [NM_080467]	NM_080467	1.04716
Mus musculus epoxide hydrolase 2, cytoplasmic (Ephx2), mRNA [NM_007940]	NM_007940	1.01724
Glutaminyl-tRNA synthetase	AK088049	-1.0791

Mus musculus neuromedin (Nmu), mRNA [NM_019515]	NM_019515	1.04828
Mus musculus mucolipin 1 (Mcoln1), mRNA [NM_053177]	NM_053177	-1.30358
Mus musculus proteasome (prosome, macropain) 26S subunit, non-ATPase, 8 (NM_026545)	NM_026545	-1.11588
RIKEN cDNA 4930553D19 gene	AK016101	1.00677
POU domain, class 3, transcription factor 4	NM_008901	1.03944
RIKEN cDNA 1700093K21 gene	AK007052	1.12895
Mus musculus EH-domain containing 1 (Ehd1), mRNA [NM_010119]	NM_010119	-1.13968
Mus musculus prostaglandin F2 receptor negative regulator (Ptgfrn), mRNA [NM_011197]	NM_011197	1.01418
Thymidylate synthase	X14489	1.0735
Mus musculus dihydrolipoamide S-acetyltransferase (E2 component of pyruvate NM_145614)	NM_145614	-1.26572
Mus musculus transmembrane channel-like gene family 6 (Tmc6), mRNA [NM_145439]	NM_145439	-1.06742
Mus musculus vomeronasal 1 receptor, C14 (V1rc14), mRNA [NM_134169]	NM_134169	1.09671
Mus musculus translin-associated factor X (Tsnax) interacting protein 1 (Tsnaxip NM_024445)	NM_024445	-1.09768
Mus musculus RIKEN cDNA 8030498B09 gene (8030498B09Rik), mRNA [NM_023867]	NM_023867	1.19297
Mus musculus ribosomal protein S4, X-linked (Rps4x), mRNA [NM_009094]	NM_009094	-1.29605
Mus musculus supervillin (Svil), mRNA [NM_153153]	NM_153153	-1.06195
G patch domain containing 2	AK017975	1.06571
Mus musculus small proline-rich protein 2J (Sprr2j), mRNA [NM_011476]	NM_011476	1.07666
Mus musculus growth arrest and DNA-damage-inducible 45 gamma (Gadd45g), NM_011817	NM_011817	-1.12045
Mus musculus myelocytomatosis oncogene (Myc), mRNA [NM_010849]	NM_010849	-1.06039
Potassium channel, subfamily K, member 7	AF110521	-1.2511
Mus musculus stearyl-Coenzyme A desaturase 2 (Scd2), mRNA [NM_009128]	NM_009128	-1.11619
Mus musculus olfactory receptor 498 (Olfr498), mRNA [NM_146307]	NM_146307	-1.04886
chondroitin sulfate GalNAcT-2	NM_030165	-1.23861
Mus musculus microtubule-associated protein, RP/EB family, member 1 (Mapre NM_007896)	NM_007896	-1.19248
Mus musculus olfactory receptor 1261 (Olfr1261), mRNA [NM_146474]	NM_146474	1.03951
Transcription factor 4	NM_013685	-1.12669
Mus musculus SEC24 related gene family, member D (S. cerevisiae) (Sec24d), NM_027135	NM_027135	-1.27204
Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, c AK021164	AK021164	1.01795
Kelch-like 15 (Drosophila)	AK078112	1.06944
AT rich interactive domain 2 (Arid-rfx like)	AK007269	1.01861
Mus musculus retinoic acid receptor, beta (Rarb), mRNA [NM_011243]	NM_011243	-1.2144
Mus musculus olfactory receptor 809 (Olfr809), mRNA [NM_146324]	NM_146324	1.04561
Mus musculus PAS domain containing serine/threonine kinase (Pask), mRNA [NM_080850]	NM_080850	1.02525
hypothetical protein 6820429M01	NM_172749	1.07232
Mus musculus FYVE, RhoGEF and PH domain containing 6 (Fgd6), mRNA [NM_053072]	NM_053072	-1.09504
Mus musculus Rho GTPase activating protein 20 (Arhgap20), mRNA [NM_175535]	NM_175535	1.02357
Mus musculus RIKEN cDNA C130090K23 gene (C130090K23Rik), mRNA [NM_145560]	NM_145560	1.1371
Mus musculus lysosomal-associated protein transmembrane 5 (Laptm5), mRNA [NM_010686]	NM_010686	1.12116
Mus musculus golgi associated PDZ and coiled-coil motif containing (Gopc), mRNA [NM_053187]	NM_053187	-1.03296
Mus musculus 10 days neonate skin cDNA, RIKEN full-length enriched library, c AK014638	AK014638	-1.01687
Mus musculus ribosomal protein L35 (Rpl35), mRNA [NM_025592]	NM_025592	-1.17658
RIKEN cDNA 5730410E15 gene	AK051222	1.05655
Myosin, light polypeptide 9, regulatory	BC055439	-1.12039
Mus musculus RIKEN cDNA 0710001P18 gene (0710001P18Rik), mRNA [NM_026720]	NM_026720	1.03184
Mus musculus transforming growth factor, beta 1 (Tgfb1), mRNA [NM_011577]	NM_011577	1.0513
Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched library, c AK013390	AK013390	1.14137
Dedicator of cytokinesis 7	BC006868	1.08063
Calmodulin regulated spectrin-associated protein 1	AK035221	-1.00452
Mus musculus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA [NM_145434]	NM_145434	1.0779
Mus musculus RIKEN cDNA E130008B10 gene (E130008B10Rik), mRNA [NM_207238]	NM_207238	1.16337
Mus musculus apolipoprotein A-IV (Apoa4), mRNA [NM_007468]	NM_007468	1.11235

MAD homolog 4 (<i>Drosophila</i>)	NM_008540	1.0612
Mus musculus RIKEN cDNA C330023F11 gene (C330023F11Rik), mRNA [NM_	NM_178653	-1.15041
Mus musculus transmembrane 6 superfamily member 1 (Tm6sf1), mRNA [NM_	NM_145375	-1.82265
Mus musculus cDNA sequence BC005682 (BC005682), mRNA [NM_033562]	NM_033562	1.15965
Expressed sequence AA987161	BC047145	-1.02221
Mus musculus RIKEN cDNA 9030418M05 gene (9030418M05Rik), mRNA [NM_	NM_133681	-1.15052
Mus musculus procollagen, type XXV, alpha 1 (Col25a1), transcript variant 1, m	NM_029838	-1.01795
F-box and leucine-rich repeat protein 21	AK085598	1
Mus musculus THAP domain containing 7 (Thap7), mRNA [NM_026909]	NM_026909	-1.10808
Mus musculus olfactory receptor 1445 (Olf1445), mRNA [NM_146699]	NM_146699	1.10801
CDNA sequence BC002236	BC002236	-1.31191
Mus musculus olfactory receptor 906 (Olf906), mRNA [NM_146803]	NM_146803	1.13228
Mus musculus WD repeat domain 10 (Wdr10), mRNA [NM_031177]	NM_031177	-1.1438
Mus musculus RIKEN cDNA 9130404D08 gene (9130404D08Rik), mRNA [NM_	NM_028993	1.00184
Mus musculus sarcospan (Sspn), mRNA [NM_010656]	NM_010656	-1.08908
RIKEN cDNA C330001K17 gene	AK031175	1.08622
Mus musculus RIKEN cDNA 1200004M23 gene (1200004M23Rik), mRNA [NM_	NM_026169	1.03942
Mus musculus SAR1a gene homolog 1 (<i>S. cerevisiae</i>) (Sara1), mRNA [NM_009	NM_009120	-1.27293
Mus musculus glioma tumor suppressor candidate region gene 2 (Gltscr2), mRN	NM_133831	1.17698
Mus musculus solute carrier family 13 (sodium-dependent dicarboxylate transp	NM_054055	1.01829
Mus musculus neuroligin 3 (Nlgn3), mRNA [NM_172932]	NM_172932	1.00851
Mus musculus zinc finger protein 99 (Zfp99), mRNA [NM_023322]	NM_023322	1.04987
Mus musculus sparc/osteonectin, cwcv and kazal-like domains proteoglycan 1 (	NM_009262	1.08972
Mus musculus myosin IE (Myo1e), mRNA [NM_181072]	NM_181072	1.03551
Mus musculus DNA segment, Chr 8, Wayne State University 49, expressed (D8	NM_028007	-1.6412
Mus musculus FK506 binding protein 4 (Fkbp4), mRNA [NM_010219]	NM_010219	1.32659
Mus musculus cortactin (Cttn), mRNA [NM_007803]	NM_007803	-1.07279
Mus musculus 13 days embryo forelimb cDNA, RIKEN full-length enriched librar	AK031219	1.03617
Mus musculus ropporin, rhophilin associated protein 1 (Ropn1), mRNA [NM_03	NM_030744	1.09302
Mus musculus RIKEN cDNA 2310016C16 gene (2310016C16Rik), mRNA [NM_	NM_027127	-1.34419
Mus musculus G protein-coupled receptor 108 (Gpr108), mRNA [NM_030084]	NM_030084	-1.08589
Mus musculus guanine nucleotide binding protein, beta 2, related sequence 1 (	NM_008143	-1.05125
RIKEN cDNA 5430440P10 gene	AK017418	1.09315
Mus musculus adult female placenta cDNA, RIKEN full-length enriched library, c	AK005439	-1.04574
hypothetical protein LOC218805	NM_172379	1.03068
Mus musculus protocadherin beta 10 (Pcdhb10), mRNA [NM_053135]	NM_053135	1.0257
Mus musculus RIKEN cDNA 1500009M05 gene (1500009M05Rik), mRNA [NM_	NM_025902	-1.0413
Mus musculus olfactory receptor 830 (Olf830), mRNA [NM_146566]	NM_146566	1.03966
Mus musculus cytochrome P450, family 17, subfamily a, polypeptide 1 (Cyp17a	NM_007809	1.14971
Protein kinase, AMP-activated, alpha 1 catalytic subunit	AK081874	-1.47647
Mus musculus G protein-coupled receptor kinase 5 (Gprk5), mRNA [NM_01886	NM_018869	1.03922
RIKEN cDNA D030034A15 gene	AK041484	1.04129
Mus musculus solute carrier family 19 (sodium/hydrogen exchanger), member 3	NM_030556	1.06173
Mus musculus valosin containing protein (Vcp), mRNA [NM_009503]	NM_009503	1.04528
Mus musculus RIKEN cDNA 1110060O18 gene (1110060O18Rik), mRNA [NM_	NM_026846	-1.03484
Mus musculus cornichon homolog (<i>Drosophila</i>) (Cnih), mRNA [NM_009919]	NM_009919	-1.338
Membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7)	AK036956	1.28964
cytoskeletal protein 49 [mice, lens, mRNA Partial, 871 nt].	S55549	1.0617
Solute carrier family 7 (cationic amino acid transporter, y+ system), member 1	NM_007513	1.09458
Mus musculus paired box gene 8 (Pax8), mRNA [NM_011040]	NM_011040	-1.01963
RIKEN cDNA 2300009A05 gene	AK009046	-1.10582
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 52 (Ddx52), mRNA [NI	NM_030096	-1.04445

Mus musculus RIKEN cDNA 5930412E23 gene (5930412E23Rik), mRNA [NM_	NM_178632	1.02045
Mus musculus RIKEN cDNA B230358A15 gene (B230358A15Rik), mRNA [NM_	NM_172931	1.10083
Ng23 protein	AK019275	1.11459
Mus musculus RIKEN cDNA 2810410M20 gene (2810410M20Rik), mRNA [NM_	NM_024428	-1.14381
Mus musculus synaptotagmin 1 (Syt1), mRNA [NM_009306]	NM_009306	1.0475
Mus musculus similar to Ig kappa chain precursor V region (VKM173B) - mouse	XM_144774	1.12611
Mus musculus lorocrin (Lor), mRNA [NM_008508]	NM_008508	1.00416
Mus musculus gamma-aminobutyric acid (GABA-A) receptor, subunit alpha 2 (C	NM_008066	-1.04655
Mus musculus myogenin (Myog), mRNA [NM_031189]	NM_031189	-1.03899
Mus musculus ASF1 anti-silencing function 1 homolog B (S. cerevisiae) (Asf1b),	NM_024184	1.01838
Mus musculus surf2 gene 2 (Surf2), mRNA [NM_013678]	NM_013678	-1.0657
Mus musculus trimethyllysine hydroxylase, epsilon (Tmlhe), mRNA [NM_138758]	NM_138758	1.06333
Mus musculus forkhead box C1 (Foxc1), mRNA [NM_008592]	NM_008592	-1.12572
Mus musculus complement receptor 2 (Cr2), mRNA [NM_007758]	NM_007758	-1.02694
Mus musculus crystallin, gamma E (Cryge), mRNA [NM_007777]	NM_007777	1.01577
Mus musculus cannabinoid receptor 2 (macrophage) (Cnr2), mRNA [NM_00992	NM_009924	-1.01471
Mus musculus lymphocyte protein tyrosine kinase (Lck), mRNA [NM_010693]	NM_010693	1.04215
Mus musculus cytochrome P450, family 2, subfamily s, polypeptide 1 (Cyp2s1),	NM_028775	-1.08172
Mus musculus olfactory receptor 92 (Olfr92), mRNA [NM_146456]	NM_146456	1.09845
hypothetical protein LOC230595	BC024681	-1.20157
Potassium channel, subfamily K, member 7	AF110521	-1.07902
Mus musculus olfactory receptor 495 (Olfr495), mRNA [NM_146364]	NM_146364	-1.18454
RIKEN cDNA 4732435N03 gene	NM_172753	1.09695
Mus musculus suppression of tumorigenicity 18 (St18), mRNA [NM_173868]	NM_173868	1.01867
Mus musculus cDNA sequence BC050092 (BC050092), mRNA [NM_181419]	NM_181419	1.07931
Mus musculus netrin 4 (Ntn4), mRNA [NM_021320]	NM_021320	1.38424
Mus musculus keratin associated protein 16-4 (Krtap16-4), mRNA [NM_130873]	NM_130873	1.04733
Mus musculus RIKEN cDNA 5033406L14 gene (5033406L14Rik), mRNA [NM_	(NM_029492	-1.44266
Tnf receptor-associated factor 6	AK083275	1.0034
RIKEN cDNA 4930470G03 gene	AK034331	-1.11702
Mus musculus RIKEN cDNA 4930565N07 gene (4930565N07Rik), mRNA [NM_	NM_175219	-1.03133
Mus musculus RIKEN cDNA A630056B21 gene (A630056B21Rik), mRNA [NM_	NM_175477	1.34593
Mus musculus diazepam binding inhibitor (Dbi), mRNA [NM_007830]	NM_007830	-1.33238
Mus musculus YTH domain family 1 (Ythdf1), mRNA [NM_173761]	NM_173761	-1.10514
Mus musculus vacuolar protein sorting 28 (yeast) (Vps28), mRNA [NM_025842]	NM_025842	-1.02242
Mus musculus inhibitor of kappaB kinase gamma (Ikbkg), mRNA [NM_010547]	NM_010547	-1.02245
Eukaryotic translation initiation factor 2C, 4	AK129395	1.15287
GULP, engulfment adaptor PTB domain containing 1	BC032154	-1.15119
Mus musculus phosphoribosyl pyrophosphate synthetase 1 (Prps1), mRNA [NM	NM_021463	-1.2032
Mus musculus elastin microfibril interfacier 2 (Emilin2), mRNA [NM_145158]	NM_145158	-1.06641
Mus musculus RIKEN cDNA 6030401B09 gene (6030401B09Rik), mRNA [NM_	NM_176968	-1.17507
Centaurin, alpha 1	AK076754	1.07593
CDNA sequence BC024969	BC044904	-1.06725
RIKEN cDNA 4432411E13 gene	AK014485	-1.0269
Mus musculus trefoil factor 1 (Tff1), mRNA [NM_009362]	NM_009362	1.09593
Mus musculus zinc fingers and homeoboxes protein 2 (Zhx2), mRNA [NM_1994	NM_199449	1.03701
Mus musculus RIKEN cDNA 5730507A09 gene (5730507A09Rik), mRNA [NM_	NM_183087	1.11152
Mus musculus RIKEN cDNA 6330569M22 gene (6330569M22Rik), mRNA [NM_	NM_153563	1.01546
Transcribed locus	BB303627	1.15482
Mus musculus RIKEN cDNA 9630033F20 gene (9630033F20Rik), mRNA [NM_	NM_177003	-1.04358
Mus musculus ethylmalonic encephalopathy 1 (Ethe1), mRNA [NM_023154]	NM_023154	1.09573
Mus musculus RIKEN cDNA A530090G11 gene (A530090G11Rik), mRNA [NM_	NM_172766	1.07449

Mus musculus sushi-repeat-containing protein (SrpX), mRNA [NM_016911]	NM_016911	-1.20341
Mus musculus olfactory receptor 1099 (Olfr1099), mRNA [NM_146768]	NM_146768	1.01677
Mus musculus heparan sulfate 6-O-sulfotransferase 3 (Hs6st3), mRNA [NM_016911]	NM_015820	1.15077
Protein phosphatase 1, regulatory (inhibitor) subunit 7	NM_023200	-1.02886
Intestinal cell kinase	AK008991	-1.03933
RIKEN cDNA 2310047N01 gene	AK009888	1.12286
Wingless-type MMTV integration site 9A	BC066165	-1.01715
Mus musculus cAMP responsive element binding protein 3-like 3 (Creb3l3), mRNA [NM_145365]	NM_145365	1.2248
RIKEN cDNA 1100001I22 gene	AK003177	-1.01906
Mus musculus RIKEN cDNA 0610008N23 gene (0610008N23Rik), mRNA [NM_025793]	NM_025793	-1.5331
Mus musculus plexin A1 (Plxna1), mRNA [NM_008881]	NM_008881	1.33024
Mus musculus RIKEN cDNA 2810051F02 gene (2810051F02Rik), mRNA [NM_028330]	NM_028330	1.04841
Mus musculus RAB5A, member RAS oncogene family (Rab5a), mRNA [NM_025887]	NM_025887	-1.46949
Mus musculus COX15 homolog, cytochrome c oxidase assembly protein (yeast), mRNA [NM_144874]	NM_144874	-1.37892
Mus musculus transmembrane 7 superfamily member 1 (Tm7sf1), mRNA [NM_031999]	NM_031999	-1.44905
Mus musculus FXD domain-containing ion transport regulator 5 (Fxd5), mRNA [NM_008761]	NM_008761	-1.00748
Mus musculus solute carrier family 36 (proton/amino acid symporter), member 3	NM_172258	1.10084
Male sterility domain containing 2	AK013613	-1.15046
Mus musculus dopachrome tautomerase (Dct), mRNA [NM_010024]	NM_010024	1.02088
Mus musculus RIKEN cDNA A130022J15 gene (A130022J15Rik), mRNA [NM_175313]	NM_175313	-1.23672
Mus musculus RIKEN cDNA 4930441E05 gene (4930441E05Rik), mRNA [XM_127120]	XM_127120	-1.0494
Mus musculus colony stimulating factor 1 (macrophage) (Csf1), mRNA [NM_007778]	NM_007778	-1.05273
Mus musculus amyotrophic lateral sclerosis 2 (juvenile) homolog (human) (Als2), mRNA [NM_028717]	NM_028717	1.0589
Mus musculus vomeronasal 1 receptor, H10 (V1rh10), mRNA [NM_134235]	NM_134235	1.1639
Mus musculus acetylcholinesterase (Ache), mRNA [NM_009599]	NM_009599	1.22121
Mus musculus transcription factor AP-2, gamma (Tcfap2c), mRNA [NM_009335]	NM_009335	-1.05331
Mus musculus Slit-like 2 (Drosophila) (Slit2), mRNA [NM_139307]	NM_139307	-1.36227
Mus musculus epidermal growth factor receptor pathway substrate 15, related to	NM_007944	1.09453
Mus musculus RIKEN cDNA 2700099C19 gene (2700099C19Rik), mRNA [NM_028303]	NM_028303	-1.13888
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 25 (Ddx25), mRNA [NM_013932]	NM_013932	1.0085
Mus musculus sirtuin 1 ((silent mating type information regulation 2, homolog) 1)	NM_019812	-1.24335
Mus musculus RIKEN cDNA 4930429B21 gene (4930429B21Rik), mRNA [NM_026249]	NM_026249	-1.14029
Mus musculus seminal vesicle secretion 5 (Svs5), mRNA [NM_009301]	NM_009301	1.02225
Mus musculus prolactin-like protein B (Prlpb), mRNA [NM_011166]	NM_011166	-1.12458
Mus musculus retinol dehydrogenase 11 (Rdh11), mRNA [NM_021557]	NM_021557	-1.08696
Ankyrin repeat domain 22	BC003460	1.03863
Mus musculus RIKEN cDNA 1810032O08 gene (1810032O08Rik), mRNA [NM_025472]	NM_025472	-1.08731
Mus musculus conserved helix-loop-helix ubiquitous kinase (Chuk), mRNA [NM_007700]	NM_007700	-1.407
Mus musculus stefin A3 (Stfa3), mRNA [NM_025288]	NM_025288	-1.1583
Lurcher transcript 1	AK014149	-1.12909
Mus musculus DNA methyltransferase (cytosine-5) 1 (Dnmt1), mRNA [NM_010066]	NM_010066	1.15138
Mus musculus eukaryotic translation initiation factor 2B, subunit 4 delta (Eif2b4)	NM_010122	-1.08596
Mus musculus hephaestin (Heph), mRNA [NM_010417]	NM_010417	-1.36139
Mus musculus phosphatidylinositol 4-kinase, catalytic, beta polypeptide (Pik4cb)	NM_175356	1.17251
Mus musculus actin related protein 2/3 complex, subunit 3 (Arpc3), mRNA [NM_019824]	NM_019824	-1.56713
Protein phosphatase 1K (PP2C domain containing)	AK034199	-1.37152
RIKEN cDNA 4930541M15 gene	AK081975	-1.19235
Cadherin 10	AK043661	1.00331
Mus musculus cDNA sequence BC028440 (BC028440), mRNA [NM_172148]	NM_172148	-1.18505
Mus musculus polymerase (RNA) III (DNA directed) polypeptide D (Polr3d), mRNA [NM_025945]	NM_025945	1.12378
Mus musculus urocortin (Ucn), mRNA [NM_021290]	NM_021290	1.08285
Unknown		1.06663

Mus musculus dedicator of cytokinesis 7 (Dock7), mRNA [NM_026082]	NM_026082	-1.1852
Mus musculus olfactory receptor 1180 (Olfr1180), mRNA [NM_146918]	NM_146918	-1.00333
Mus musculus taste receptor, type 2, member 108 (Tas2r108), mRNA [NM_020 NM_020502]	NM_020502	-1.01839
Mus musculus cDNA sequence BC005632 (BC005632), mRNA [NM_145421]	NM_145421	1.13937
Mus musculus DNA segment, Chr 5, Wayne State University 46, expressed (D5 NM_144913)	NM_144913	1.30762
Mus musculus ribosomal protein S6 kinase, polypeptide 5 (Rps6ka5), mRNA [NM_153587]	NM_153587	-1.39452
A disintegrin and metalloproteinase domain 30	AK077058	-1.02624
BTB (POZ) domain containing 2	BC055704	1.09048
Mus musculus acyl-CoA synthetase long-chain family member 1 (Acsl1), mRNA [NM_007981]	NM_007981	-1.00522
RIKEN cDNA 1700017D01 gene	AK006056	1.01249
Mus musculus DNA segment, Chr 11, ERATO Doi 686, expressed (D11Ert686 XM_110968)	XM_110968	-1.52577
RIKEN cDNA 2810048G06 gene	AK012922	-1.00761
Mus musculus PCTAIRE-motif protein kinase 3 (Pctk3), mRNA [NM_008795]	NM_008795	1.02297
Mus musculus RIKEN cDNA 2810046C01 gene (2810046C01Rik), mRNA [NM_026039]	NM_026039	1.35577
Mus musculus platelet-derived growth factor receptor-like (Pdgfrl), mRNA [NM_026840]	NM_026840	-1.04552
Isoleucine-tRNA synthetase	AK010975	1.03067
Mus musculus anti-Mullerian hormone type 2 receptor (Amhr2), mRNA [NM_144547]	NM_144547	-1.10574
5'-AMP-ACTIVATED PROTEIN KINASE, BETA-2 SUBUNIT (AMPK BETA-2 CHAIN) homolog		-1.09308
Mus musculus cDNA sequence BC024814 (BC024814), mRNA [NM_146247]	NM_146247	1.06194
Trinucleotide repeat containing 6a	AK044679	-1.00372
Mus musculus UDP-Gal:betaGal beta 1,3-galactosyltransferase, polypeptide 6 (NM_080445)	NM_080445	1.06271
Mus musculus myocyte enhancer factor 2D (Mef2d), mRNA [NM_133665]	NM_133665	-1.0675
Mus musculus RIKEN cDNA 2810036L13 gene (2810036L13Rik), mRNA [NM_144802]	NM_144802	-1.10702
Mus musculus phospholipase A2, group IB, pancreas, receptor (Pla2g1br), mRNA [NM_008867]	NM_008867	-1.06474
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 50 (Ddx50), mRNA [NM_053183]	NM_053183	-1.26205
Mus musculus vomeronasal 1 receptor, G4 (V1rg4), mRNA [NM_134205]	NM_134205	1.0157
Mus musculus leukotriene C4 synthase (Ltc4s), mRNA [NM_008521]	NM_008521	1.12919
Mus musculus cytochrome c oxidase, subunit Vb (Cox5b), mRNA [NM_009942]	NM_009942	-1.05615
Mus musculus RIKEN cDNA 4930511A21 gene (4930511A21Rik), mRNA [NM_021529]	NM_021529	-1.70163
Mus musculus ubiquitin-conjugating enzyme E2I (Ube2i), mRNA [NM_011665]	NM_011665	1.02557
Isochorismatase domain containing 1	NM_025478	1.08207
RIKEN cDNA 2900057D21 gene	AK037695	-1.02425
Mus musculus olfactory receptor 1183 (Olfr1183), mRNA [NM_146529]	NM_146529	1.04659
Mus musculus toll-like receptor 1 (Tlr1), mRNA [NM_030682]	NM_030682	1.09105
Mus musculus 13 days embryo lung cDNA, RIKEN full-length enriched library, c	AK085186	-1.5362
Zinc finger protein 672	AK006714	1.04482
C-type lectin domain family 9, member a	NM_172732	1.25694
Matrix metalloproteinase 9	NM_013599	1.01227
Mus musculus phosphoprotein enriched in astrocytes 15 (Pea15), mRNA [NM_008556]	NM_008556	-1.09172
Mus musculus RIKEN cDNA 2610103J23 gene (2610103J23Rik), mRNA [NM_026002]	NM_026002	-1.01248
hypothetical protein 6330514E13	NM_183141	1.07307
Mus musculus RIKEN cDNA 2310034C09 gene (2310034C09Rik), mRNA [NM_054100]	NM_054100	-1.00394
Mus musculus RIKEN cDNA 2410015N17 gene (2410015N17Rik), mRNA [NM_023203]	NM_023203	-1.15246
Mus musculus fused toes (Fts), mRNA [NM_010241]	NM_010241	-1.28823
Mus musculus histamine receptor H 3 (Hrh3), mRNA [NM_133849]	NM_133849	1.0486
DNA segment, Chr 17, Wayne State University 94, expressed	NM_145353	1.1004
Mus musculus RIKEN cDNA 4933428G20 gene (4933428G20Rik), mRNA [NM_021493]	NM_021493	-1.01929
Mus musculus adaptor-related protein complex 3, sigma 2 subunit (Ap3s2), mRNA [NM_009682]	NM_009682	-1.02096
Mus musculus transglutaminase 3, E polypeptide (Tgm3), mRNA [NM_009374]	NM_009374	1.07649
Protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin)	AK010338	-1.1883
Zinc finger protein 60	AK028967	1.0474
R3H domain (binds single-stranded nucleic acids)	AK085110	-1.00621

RIKEN cDNA 4922502B01 gene	AK013705	1.1269
Mus musculus RIKEN cDNA 3010026O09 gene (3010026O09Rik), mRNA [NM_	NM_026543	-1.06508
CDNA sequence BC034507	AK078580	-1.02045
RIKEN cDNA A930004K21 gene	BC057549	-1.05533
Mus musculus RIKEN cDNA 1110020G09 gene (1110020G09Rik), mRNA [XM_	XM_127934	-1.01529
Mus musculus RIKEN cDNA 2400009B11 gene (2400009B11Rik), mRNA [NM_	NM_025886	-1.05272
Mus musculus solute carrier family 39 (zinc transporter), member 10 (Slc39a10)	NM_172653	-1.25229
Hypoxia-inducible factor 1, alpha subunit inhibitor	AK009856	1.07872
Mus musculus immunoglobulin mu binding protein 2 (Ighmbp2), mRNA [NM_00:	NM_009212	-1.04395
Mus musculus diablo homolog (Drosophila) (Diablo), mRNA [NM_023232]	NM_023232	1.05238
RAS-like, family 11, member B	AK004534	-1.26968
Mus musculus RIKEN cDNA 4921509E07 gene (4921509E07Rik), mRNA [NM_	NM_027597	1.14835
CLIP associating protein 1	AK006534	1.02894
Retinoblastoma binding protein 4	AK040351	-1.29078
Motile sperm domain containing 4	AK008233	1.09804
RIKEN cDNA D030051N19 gene	AK083596	1.04281
Mus musculus SUMO/sentrin specific protease 3 (Snp3), mRNA [NM_030702]	NM_030702	-1.00584
Mus musculus zinc finger protein 313 (Zfp313), mRNA [NM_030743]	NM_030743	-1.01232
Mus musculus 6-pyruvoyl-tetrahydropterin synthase/dimerization cofactor of hec	NM_025273	1.03103
Hypothetical protein C230004L04	AK015886	1.07974
Serine (or cysteine) proteinase inhibitor, clade B, member 9g	NM_011455	1.03695
UDP glycosyltransferase 1 family polypeptide A9	NM_201410	-1.64682
Mus musculus galactokinase 1 (Galk1), mRNA [NM_016905]	NM_016905	1.08418
Mus musculus RIKEN cDNA E030013G06 gene (E030013G06Rik), mRNA [NM_	NM_177697	1.12413
brain expressed, X-linked 4	NM_212457	-1.26915
Potassium channel tetramerisation domain containing 4	AK083404	1.00317
Oxysterol binding protein-like 7	AK017095	1.10032
Mus musculus ANKTM1 (Anktm1), mRNA [NM_177781]	NM_177781	1.06048
Mus musculus RIKEN cDNA 2310076O21 gene (2310076O21Rik), mRNA [NM_	NM_144801	1.0212
similar to development- and differentiation-enhancing factor 2; PYK2 C terminus	AK041326	1.02303
Mus musculus one cut domain, family member 2 (Onecut2), mRNA [NM_19426:	NM_194268	1.13075
Mus musculus epilepsy, progressive myoclonic epilepsy, type 2 gene alpha (Epr	NM_010146	-1.04517
RIKEN cDNA 1700012P22 gene	AK005933	1.08999
Mus musculus interleukin 11 receptor, alpha chain 1 (Il11ra1), mRNA [NM_010:	NM_010549	-1.21723
RIKEN cDNA 1110013G13 gene	AK090384	-1.35596
Mus musculus sideroflexin 2 (Sfxn2), mRNA [NM_053196]	NM_053196	-1.01968
Mus musculus 12 days embryo eyeball cDNA, RIKEN full-length enriched library	AK084325	1.07896
Mus musculus runt related transcription factor 3 (Runx3), mRNA [NM_019732]	NM_019732	1.09415
Mus musculus RIKEN cDNA 1810034K20 gene (1810034K20Rik), mRNA [NM_	NM_023397	-1.28397
Mus musculus absent in melanoma 1 (Aim1), mRNA [NM_172393]	NM_172393	-1.306
Mus musculus cDNA sequence BC019943 (BC019943), mRNA [NM_144927]	NM_144927	1.13639
Mus musculus protein kinase, cGMP-dependent, type I (Prkg1), mRNA [NM_01	NM_011160	1.0092
Mus musculus olfactory receptor 1009 (Olfr1009), mRNA [NM_146572]	NM_146572	1.01681
Mus musculus olfactory receptor 71 (Olfr71), mRNA [NM_019486]	NM_019486	1.04714
brain and kidney protein	NM_138649	1.12081
Kelch-like (D. melanogaster)	NM_145479	-1.29682
RIKEN cDNA B230324K02 gene	AK045930	-1.06969
Mus musculus sorting nexin 16 (Snx16), mRNA [NM_029068]	NM_029068	1.02206
Alanyl (membrane) aminopeptidase	NM_008486	1.16174
Mus musculus centrin 2 (Cetn2), mRNA [NM_019405]	NM_019405	-1.93289
Mus musculus olfactory receptor 957 (Olfr957), mRNA [NM_146745]	NM_146745	1.02771
Mus musculus olfactory receptor 1110 (Olfr1110), mRNA [NM_146769]	NM_146769	-1.10836

Mus musculus platelet derived growth factor receptor, beta polypeptide (Pdgfrb)	NM_008809	-1.13986
Mus musculus zinc finger protein 318 (Zfp318), transcript variant 1, mRNA [NM_0207671]	NM_0207671	-1.00811
Mus musculus actin related protein 2/3 complex, subunit 5-like (Arpc5l), mRNA [NM_028809]	NM_028809	-1.52041
Mus musculus trafficking protein particle complex 2 (Trappc2), mRNA [NM_025432]	NM_025432	-2.06232
Mus musculus SH2 domain protein 2A (Sh2d2a), mRNA [NM_021309]	NM_021309	-1.11663
Mus musculus transforming growth factor, beta receptor III (Tgfr3), mRNA [NM_011578]	NM_011578	1.02528
Mus musculus histone 1, H2ba (Hist1h2ba), mRNA [NM_175663]	NM_175663	-1.1925
RIKEN cDNA 1300013B24 gene	AK004981	-1.01889
Titin	AK009965	-1.04157
Pogo transposable element with KRAB domain	AK122520	-1.022
Mus musculus homeo box A6 (Hoxa6), mRNA [NM_010454]	NM_010454	-1.01519
Mus musculus serine/threonine kinase 6 (Stk6), mRNA [NM_011497]	NM_011497	-1.0096
Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 1 (Slc16a1), mRNA [NM_030696]	NM_030696	-1.00008
Mus musculus RIKEN cDNA 2900055D03 gene (2900055D03Rik), mRNA [NM_026065]	NM_026065	-1.4536
Mus musculus membrane protein, palmitoylated 6 (MAGUK p55 subfamily member 6), mRNA [NM_019939]	NM_019939	1.13416
Mus musculus adult male kidney cDNA, RIKEN full-length enriched library, clone AK002875	AK002875	1.12904
Mus musculus solute carrier family 13 (sodium-dependent dicarboxylate transporters), member 1 (Slc13a1), mRNA [NM_022411]	NM_022411	1.01438
Mus musculus avian erythroblastosis virus E-26 (v-ets) oncogene related (Erg), mRNA [NM_133659]	NM_133659	1.09317
Mus musculus solute carrier family 25, member 30 (Slc25a30), mRNA [NM_026232]	NM_026232	-1.04376
Mus musculus PHD finger protein 8 (Phf8), mRNA [NM_177201]	NM_177201	1.07832
Gene model 944, (NCBI)	BC049983	1.01476
CDK5 regulatory subunit associated protein 2	NM_011739	-1.28472
Mus musculus schlafen 10 (Slfn10), mRNA [NM_181542]	NM_181542	1.1898
Mus musculus minichromosome maintenance deficient 5, cell division cycle 46 (Mcm5), mRNA [NM_008566]	NM_008566	-1.01599
Mus musculus seminal vesicle antigen-like 1 (Sval1), mRNA [NM_027832]	NM_027832	1.11835
Mus musculus complement component 1, q subcomponent binding protein (C1qb), mRNA [NM_007573]	NM_007573	-1.31898
Vitrin	AK051606	1.1319
RIKEN cDNA 6330505N24 gene	AK031946	1.18431
Mus musculus hypothetical protein BC006605 (LOC224833), mRNA [NM_145489]	NM_145489	-1.13175
Mus musculus pink-eyed dilution (p), mRNA [NM_021879]	NM_021879	1.05775
Mus musculus creatine kinase, mitochondrial 2 (Ckmt2), mRNA [NM_198415]	NM_198415	-1.12217
Mus musculus serine/threonine kinase 38 (Stk38), mRNA [NM_134115]	NM_134115	-1.24275
Mus musculus leucine-rich repeat-containing 3 (Lrrc3), mRNA [NM_145152]	NM_145152	1.12209
Mus musculus fidgetin (Fign), mRNA [NM_021716]	NM_021716	-1.18026
Mus musculus golgi associated, gamma adaptin ear containing, ARF binding protein 1 (Gag), mRNA [NM_145929]	NM_145929	1.21008
Mus musculus RIKEN cDNA 1110008K04 gene (1110008K04Rik), mRNA [NM_028628]	NM_028628	1.11055
Mus musculus ring finger protein 10 (Rnf10), mRNA [NM_016698]	NM_016698	-1.31265
Mus musculus phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1 (Rictor), mRNA [NM_011085]	NM_011085	1.31644
Solute carrier organic anion transporter family, member 6d1	AK014872	-1.00125
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 4 (Ddx4), mRNA [NM_010029]	NM_010029	-1.05603
Mus musculus hairy/enhancer-of-split related with YRPW motif 2 (Hey2), mRNA [NM_013904]	NM_013904	-1.14976
Mus musculus cerebellin 2 precursor protein (Cbln2), mRNA [NM_172633]	NM_172633	-1.07815
Mus musculus RIKEN cDNA 2900045N06 gene (2900045N06Rik), mRNA [NM_028385]	NM_028385	1.02732
Mus musculus oligodendrocyte myelin glycoprotein (Omg), mRNA [NM_019409]	NM_019409	1.16136
Mus musculus sideroflexin 1 (Sfxn1), mRNA [NM_027324]	NM_027324	-1.0324
Expressed sequence AI851682	AK038667	-1.04376
Mus musculus RIKEN cDNA 5730494N06 gene (5730494N06Rik), mRNA [NM_027478]	NM_027478	-1.65038
Mus musculus RIKEN cDNA 4732473B16 gene (4732473B16Rik), mRNA [NM_175307]	NM_175307	1.00606
Mus musculus RIKEN cDNA 4432404J10 gene (4432404J10Rik), mRNA [NM_025709]	NM_025709	-1.1374
Mus musculus RIKEN cDNA 4930451A13 gene (4930451A13Rik), mRNA [NM_026254]	NM_026254	-1.05541
Mus musculus Epstein-Barr virus induced gene 3 (Ebi3), mRNA [NM_015766]	NM_015766	1.02442
Mus musculus ligand of numb-protein X 2 (Lnx2), mRNA [NM_080795]	NM_080795	-1.1067

Mus musculus RIKEN cDNA 4921509C19 gene (4921509C19Rik), mRNA [NM_0198655]		-1.07648
Mus musculus vanin 3 (Vnn3), mRNA [NM_011979]	NM_011979	-1.05103
Mus musculus interferon alpha family, gene 6 (Ifna6), mRNA [NM_008335]	NM_008335	1.02293
Mus musculus trafficking protein particle complex 3 (Trappc3), mRNA [NM_013137]	NM_013137	-1.32797
Mus musculus carboxypeptidase B1 (tissue) (Cpb1), mRNA [XM_130814]	XM_130814	1.00765
Mus musculus lymphocyte antigen 6 complex, locus H (Ly6h), mRNA [NM_011837]	NM_011837	-1.11449
Mus musculus RIKEN cDNA 4931440L10 gene (4931440L10Rik), mRNA [NM_0183292]	NM_0183292	1.03098
Mus musculus similar to DYSKERIN (LOC245474), mRNA [XM_204426]	XM_204426	-1.30201
RIKEN cDNA C030005H24 gene	AK021047	1.05967
RIKEN cDNA 1600016N20 gene	AK005476	1.14229
Mus musculus RIKEN cDNA 5730458D16 gene (5730458D16Rik), mRNA [NM_0177609]	NM_0177609	-1.05954
Mus musculus scavenger receptor class B, member 1 (Scarb1), mRNA [NM_016741]	NM_016741	1.16782
PROGONADOLIBERIN I PRECURSOR [CONTAINS: GONADOLIBERIN I (LH-RH I) (LUTEINIZING HORMONE RELEASING HORMONE)]		1.04564
Leucine rich repeat containing 34	AK005720	-2.21727
Solute carrier family 26, member 7	AK054327	1.11612
Mus musculus zinc finger protein 13 (Zfp13), mRNA [NM_011747]	NM_011747	-1.70991
RIKEN cDNA 493055F24Rik	AK016104	-1.08784
Mus musculus RIKEN cDNA 9130411I17 gene (9130411I17Rik), mRNA [NM_026243]	NM_026243	1.06218
Mus musculus cDNA sequence BC038925 (BC038925), mRNA [NM_177878]	NM_177878	1.03354
RIKEN cDNA 1700003H04 gene	AK016589	-1.02519
Mus musculus RIKEN cDNA 1110005A23 gene (1110005A23Rik), mRNA [NM_025364]	NM_025364	-1.16375
Mus musculus RIKEN cDNA 1700007D05 gene (1700007D05Rik), mRNA [NM_028832]	NM_028832	-1.15765
RIKEN cDNA C130057E09 gene	BC036137	-1.32351
Mus musculus hyaluronidase 1 (Hyal1), mRNA [NM_008317]	NM_008317	1.10829
General transcription factor II E, polypeptide 2 (beta subunit)	BE651658	1.00565
Mus musculus branched chain ketoacid dehydrogenase E1, alpha polypeptide (E1-alpha)	NM_007533	1.14629
Mus musculus olfactory receptor 482 (Olfr482), mRNA [NM_146733]	NM_146733	1.06292
Mus musculus interleukin 10 (Il10), mRNA [NM_010548]	NM_010548	1.11806
Mus musculus cDNA sequence BC030335 (BC030335), mRNA [NM_173408]	NM_173408	-1.5338
Mus musculus PERQ amino acid rich, with GYF domain 1 (Perq1), mRNA [NM_031408]	NM_031408	1.08954
Mus musculus UPF3 regulator of nonsense transcripts homolog A (yeast) (Upf3)	XM_356061	-1.03654
Mus musculus RIKEN cDNA 1700067C01 gene (1700067C01Rik), mRNA [NM_029714]	NM_029714	1.11825
RIKEN cDNA 1700011H22 gene	AK005867	1.153
Mus musculus enhancer of polycomb homolog 2 (Drosophila) (Epc2), mRNA [NM_172663]	NM_172663	-1.19886
Mus musculus RIKEN cDNA 2610319K07 gene (2610319K07Rik), mRNA [NM_028264]	NM_028264	-1.12239
Mus musculus ferritin, heavy polypeptide-like 17 (Fthl17), mRNA [NM_031261]	NM_031261	1.15635
Macrophage expressed gene 1	L20315	-1.03793
RIKEN cDNA 4933425B16 gene	AK016908	1.0681
Mus musculus RIKEN cDNA 5830445C04 gene (5830445C04Rik), mRNA [NM_026366]	NM_026366	1.20923
Contactin associated protein 1	BE980346	1.03788
Ras interacting protein 1	AK033276	1.11776
Mus musculus carboxylesterase 3 (Ces3), mRNA [NM_053200]	NM_053200	-1.07559
Unknown		-1.0879
Mus musculus RIKEN cDNA 6720456H20 gene (6720456H20Rik), mRNA [NM_172600]	NM_172600	-1.10571
Mus musculus tissue factor pathway inhibitor 2 (Tfpi2), mRNA [NM_009364]	NM_009364	1.00511
Succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	BC011301	-1.08781
Guanylate cyclase 2f	AK044234	1.04021
Mus musculus RIKEN cDNA E330016A19 gene (E330016A19Rik), mRNA [NM_173386]	NM_173386	1.01063
IQ motif containing F1	AK006797	-1.00191
602820664F1 NCI_CGAP_Mam6 Mus musculus cDNA clone IMAGE:4949630	BG921888	1.04068
Phospholipase C, gamma 1	AF027185	1.08376
RIKEN cDNA D930038M13 gene	AK086582	-1.02955

Transcription factor 4	AK032144	1.01221
Mus musculus hippocalcin-like 1 (Hpcal1), mRNA [NM_016677]	NM_016677	1.11916
Similar to TAK1-binding protein 3 isoform 1; NFkB activating protein 1	AK079403	-1.05155
MYST histone acetyltransferase 2	AK078483	-1.04779
Transmembrane protein 17	AK089018	1.07243
Mus musculus RIKEN cDNA 2010107G23 gene (2010107G23Rik), mRNA [NM_027251]	NM_027251	-1.05483
EST X83328	BC025087	-1.28962
Mus musculus epsin 1 (Epn1), mRNA [NM_010147]	NM_010147	1.19606
Mus musculus RIKEN cDNA 1810018F18 gene (1810018F18Rik), mRNA [NM_028795]	NM_028795	1
Mus musculus cysteine and histidine-rich domain (CHORD)-containing, zinc-bin	NM_025844	-1.2146
Mus musculus cDNA clone IMAGE:3492058, partial cds.	BC013561	-1.37012
Mus musculus forkhead box P3 (Foxp3), mRNA [NM_054039]	NM_054039	1.02232
Glutamic acid decarboxylase 2	AK018118	-1.00427
Mus musculus phosphogluconate dehydrogenase (Pgd), mRNA [NM_025801]	NM_025801	1.19473
Mus musculus RIKEN cDNA E130303B06 gene (E130303B06Rik), mRNA [NM_198299]	NM_198299	-1.02783
Mus musculus nucleophosmin/nucleoplasmin 2 (Npm2), mRNA [NM_181345]	NM_181345	1.09573
Mus musculus olfactory receptor 1094 (Olfr1094), mRNA [NM_146365]	NM_146365	1.18309
RIKEN cDNA 1700020I14 gene	AK004510	-1.56497
RIKEN cDNA 2310061N02 gene	AK010010	1.02564
Mus musculus killer cell lectin-like receptor subfamily C, member 3 (Klrc3), mRNA [NM_021378]	NM_021378	1.0571
Mus musculus transmembrane 4 superfamily member 7 (Tm4sf7), mRNA [NM_053082]	NM_053082	-1.05592
Mus musculus glutaminase (Gls), mRNA [XM_129846]	XM_129846	1.02718
Mus musculus thymic stromal lymphopoietin (Tslp), mRNA [NM_021367]	NM_021367	-1.07493
Mus musculus eyes absent 3 homolog (Drosophila) (Eya3), transcript variant 2,	NM_010166	1.09652
Mus musculus GM2 ganglioside activator protein (Gm2a), mRNA [NM_010299]	NM_010299	1.10755
Mus musculus host cell factor C1 (Hcfc1), mRNA [NM_008224]	NM_008224	1.02307
Mus musculus regulator of G-protein signaling 12 (Rgs12), mRNA [NM_173402]	NM_173402	-1.11444
Mus musculus regulator of G-protein signaling 3 (Rgs3), mRNA [NM_134257]	NM_134257	1.39203
Potassium inwardly-rectifying channel, subfamily J, member 9	NM_008429	-1.23543
Mus musculus olfactory receptor 1414 (Olfr1414), mRNA [NM_147039]	NM_147039	1.09597
Mus musculus RIKEN cDNA 5730476P14 gene (5730476P14Rik), mRNA [NM_183289]	NM_183289	-1.01424
Mus musculus simple repeat sequence-containing transcript (Srst), mRNA [NM_009276]	NM_009276	1.00706
UDP-N-acetylglucosamine pyrophosphorylase 1-like 1	BC068207	-1.03046
Mus musculus RIKEN cDNA B930041F14 gene (B930041F14Rik), mRNA [NM_178699]	NM_178699	-1.01813
RIKEN cDNA 4930438D12 gene	BC049380	-1.49511
Mus musculus alanyl-tRNA synthetase (Aars), mRNA [NM_146217]	NM_146217	-1.03448
Mus musculus expressed sequence AI118078 (AI118078), mRNA [NM_172923]	NM_172923	-1.08361
Mus musculus adult male kidney cDNA, RIKEN full-length enriched library, clone	AK002875	1.02693
GTL2, imprinted maternally expressed untranslated mRNA	Y13832	1.08402
Neurexin I	AK038854	1.13962
RIKEN cDNA 4930432K21 gene	AK015293	1.03408
Mus musculus cerebellin 1 precursor protein (Cbln1), mRNA [NM_019626]	NM_019626	1.17069
Mus musculus phosphodiesterase 6D, cGMP-specific, rod, delta (Pde6d), mRNA [NM_008801]	NM_008801	-1.21361
Ubiquitin specific protease 7	AK075830	1.01028
Mus musculus olfactory receptor 971 (Olfr971), mRNA [NM_146614]	NM_146614	1.06024
Mus musculus claudin 11 (Cldn11), mRNA [NM_008770]	NM_008770	1.02622
Potassium inwardly-rectifying channel, subfamily K, member 6	AK036882	-1.0362
Polymerase (DNA directed), kappa	NM_012048	1.0566
Mus musculus RAS-related C3 botulinum substrate 3 (Rac3), mRNA [NM_133223]	NM_133223	1.01491
collectin liver 1	NM_173422	-1.05621
Mannosidase, beta A, lysosomal-like	BC013803	1.02941
Mus musculus eukaryotic translation initiation factor 4E binding protein 1 (Eif4e)	NM_007918	-1.00201

Gamma-glutamyl hydrolase	BC009809	-1.7898
Mus musculus RIKEN cDNA 4921504E14 gene (4921504E14Rik), mRNA [XM_ XM_125547		1.17229
Mus musculus leucine rich repeat (in FLII) interacting protein 1 (Lrrfip1), mRNA	NM_008515	-1.17445
Mus musculus hydrocephalus inducing (Hydin), mRNA [NM_172916]	NM_172916	-1.01777
RIKEN cDNA 4930468A15 gene	AK015525	1.05334
Mus musculus melanophilin (Mlph), mRNA [NM_053015]	NM_053015	1.03698
Mus musculus mannan-binding lectin serine protease 1 (Masp1), mRNA [NM_01	NM_008555	1.05753
Nei like 3 (E. coli)	AK031027	1.09508
Mus musculus cDNA sequence BC022645 (BC022645), mRNA [NM_146228]	NM_146228	1.13431
Mus musculus alanine-glyoxylate aminotransferase (Agxt), mRNA [NM_016702]	NM_016702	1.01557
Mus musculus RIKEN cDNA 1810073N04 gene (1810073N04Rik), mRNA [NM_ NM_024249		-1.14043
Mus musculus interferon beta, fibroblast (Ifnb), mRNA [NM_010510]	NM_010510	1.07198
Mus musculus budding uninhibited by benzimidazoles 1 homolog (S. cerevisiae),	NM_009772	-1.45858
Mus musculus NIMA (never in mitosis gene a)-related expressed kinase 4 (Nek	NM_011849	1.1492
Transmembrane protein 40	NM_144805	-1.10598
Mus musculus RIKEN cDNA 2810003C17 gene (2810003C17Rik), mRNA [NM_ NM_145144		-1.02339
Glutamate receptor, ionotropic, kainate 1	AK032526	1.0066
Mus musculus olfactory receptor 945 (Olfr945), mRNA [NM_146506]	NM_146506	1.04783
Interleukin 19	AF453945	1.01193
Mus musculus fibroblast growth factor (acidic) intracellular binding protein (Fibp)	NM_021438	1.02468
Mus musculus even skipped homeotic gene 1 homolog (Evx1), mRNA [NM_007 NM_007966		1.08495
RIKEN cDNA 6130401J04 gene	AK077997	-1.04711
Mus musculus olfactory receptor 120 (Olfr120), mRNA [NM_146631]	NM_146631	1.11402
Mus musculus RIKEN cDNA 1500005J14 gene (1500005J14Rik), mRNA [NM_ (NM_028058		-1.53031
RIKEN cDNA 1110018H23 gene	AK003777	1.1134
Mus musculus polymerase (DNA-directed), delta 4 (Pold4), mRNA [NM_027196 NM_027196		1.20877
Mus musculus DnaJ (Hsp40) homolog, subfamily B, member 6 (Dnajb6), mRNA	NM_011847	-1.69149
Mus musculus 8 days embryo whole body cDNA, RIKEN full-length enriched libr	AK077696	1.00614
Mus musculus paired immunoglobulin-like type 2 receptor beta (Pilrb), mRNA [NM NM_133209		-1.08205
Mus musculus solute carrier family 27 (fatty acid transporter), member 1 (Slc27ε	NM_011977	1.23908
RIKEN cDNA 1700105P06 gene	AK018939	1.14056
Mus musculus coagulation factor II (thrombin) receptor-like 1 (F2r1), mRNA [NM NM_007974		-1.16933
Mus musculus RIKEN cDNA 9530019H02 gene (9530019H02Rik), mRNA [NM_ NM_198163		-1.15485
Mus musculus cDNA sequence BC011426 (BC011426), mRNA [NM_145490]	NM_145490	1.07915
Mus musculus NADH dehydrogenase (ubiquinone) Fe-S protein 1 (Ndufs1), mR	NM_145518	-1.18141
Mus musculus keratin complex 1, acidic, gene 15 (Krt1-15), mRNA [NM_008466	NM_008469	-1.06423
Mus musculus insulinoma-associated 2 (Insm2), mRNA [NM_020287]	NM_020287	1.09775
Mus musculus 2'-5' oligoadenylate synthetase 3 (Oas3), mRNA [NM_145226]	NM_145226	1.00238
McLeod syndrome gene homolog	NM_023500	1.07725
Mus musculus similar to Aldo-keto reductase family 1 member C13 (LOC23846	XM_138403	-1.21073
Mus musculus olfactory receptor 509 (Olfr509), mRNA [NM_146372]	NM_146372	-1.03457
Mus musculus RAB8A, member RAS oncogene family (Rab8a), mRNA [NM_02 NM_023126		-1.18692
Mus musculus solute carrier family 35, member A5 (Slc35a5), mRNA [NM_0287 NM_028756		-1.30171
Mus musculus RIKEN cDNA 2900092M14 gene (2900092M14Rik), mRNA [XM_ XM_196763		-1.18216
Mus musculus solute carrier family 28 (sodium-coupled nucleoside transporter),	NM_172980	1.01811
RIKEN cDNA D630041K24 gene	AK085566	-1.00357
Mus musculus AXIN1 up-regulated 1 (Axud1), mRNA [NM_153287]	NM_153287	1.0099
Mus musculus poly A binding protein, cytoplasmic 5 (Pabpc5), mRNA [NM_053	NM_053114	-1.0362
Mus musculus glia maturation factor, beta (Gmfb), mRNA [NM_022023]	NM_022023	-1.24367
Mus musculus vomeronasal 1 receptor, B8 (V1rb8), mRNA [NM_053229]	NM_053229	1.12053
Mus musculus RIKEN cDNA 2310042E22 gene (2310042E22Rik), mRNA [NM_ NM_025634		-1.08648
Mus musculus wingless-related MMTV integration site 5A (Wnt5a), mRNA [NM_ NM_009524		1.00929

Mus musculus inositol 1,4,5-trisphosphate 3-kinase A (Itpka), mRNA [NM_1461:NM_146125]		1.0558
Mus musculus matrix metalloproteinase 16 (Mmp16), mRNA [NM_019724]	NM_019724	1
Ring finger protein 157	AK038042	1.15452
Mus musculus abhydrolase domain containing 3 (Abhd3), mRNA [NM_134130]	NM_134130	-1.27486
Mus musculus olfactory receptor 1324 (Olfr1324), mRNA [NM_146292]	NM_146292	1.06969
Mus musculus nephronectin (Npnt), mRNA [NM_033525]	NM_033525	-1.00299
RIKEN cDNA 4930435E12 gene	AK077164	1.07196
Sirtuin 4 (silent mating type information regulation 2 homolog) 4 (S. cerevisiae)	BC022653	-1.17422
Mus musculus hyaluronidase 3 (Hyal3), mRNA [NM_178020]	NM_178020	1.09791
Mus musculus branched chain ketoacid dehydrogenase E1, beta polypeptide (B	NM_199195	-1.09685
RIKEN cDNA 4930414N06 gene	AK015139	1.0411
Fibronectin type III domain containing 3B	NM_173182	1.04708
Mus musculus vomeronasal 1 receptor, C5 (V1rc5), mRNA [NM_053235]	NM_053235	1.00894
Mus musculus voltage-dependent anion channel 2 (Vdac2), mRNA [NM_011695]	NM_011695	-1.22245
Low density lipoprotein receptor-related protein 4	AK032360	1.00967
Mus musculus UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide	NM_020579	1.11933
Mus musculus olfactory receptor 1311 (Olfr1311), mRNA [NM_146274]	NM_146274	1.02116
Mus musculus olfactory receptor 1393 (Olfr1393), mRNA [NM_146471]	NM_146471	-1.05454
Mus musculus somatostatin receptor 4 (Sstr4), mRNA [NM_009219]	NM_009219	1.09272
Mus musculus RIKEN cDNA 1810011K17 gene (1810011K17Rik), mRNA [NM_145513]	NM_145513	1.01003
Mus musculus histidine triad nucleotide binding protein 1 (Hint1), mRNA [NM_008248]	NM_008248	-1.06547
Mus musculus doublesex and mab-3 related transcription factor like family C2 (I	NM_027732	1.03631
V-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma	U71126	-1.00214
Mus musculus limb expression 1 homolog (chicken) (Lix1), mRNA [NM_025681]	NM_025681	1.00597
Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system	NM_011990	1.03097
RIKEN cDNA 4930448N21 gene	BC017159	1.48027
CDNA clone MGC:28609 IMAGE:4218551, complete cds	BC023121	-1.30581
Mus musculus solute carrier family 35 (UDP-galactose transporter), member 2 (	NM_078484	1.01286
Mus musculus heterogeneous nuclear ribonucleoprotein H2 (Hnrph2), mRNA [NM_019868]	NM_019868	-1.61798
PDZ domain containing 6	AK035092	1.10421
Mus musculus polymerase (RNA) II (DNA directed) polypeptide J (Polr2j), mRNA [NM_011293]	NM_011293	-1.11151
Mus musculus granulin (Grn), mRNA [NM_008175]	NM_008175	1.23921
Mus musculus potassium channel, subfamily K, member 2 (Kcnk2), mRNA [NM_010607]	NM_010607	-1.11737
RIKEN cDNA 2010004M13 gene	CA451816	1.02896
Mus musculus DNA segment, Chr 11, Lothar Hennighausen 1, expressed (D11)	NM_031871	1.13841
Mus musculus platelet-derived growth factor, C polypeptide (Pdgfc), mRNA [NM_019971]	NM_019971	-1.19722
Mus musculus calcium/calmodulin -dependent protein kinase II gamma (Camk2)	NM_178597	-1.35591
Mus musculus astrotactin 1 (Astn1), mRNA [NM_007495]	NM_007495	-1.08097
Disintegrin and metalloproteinase (Adam8)	BC025923	1.10346
Mus musculus general transcription factor IIF, polypeptide 2 (Gtf2f2), mRNA [NM_026816]	NM_026816	-1.34301
RIKEN cDNA B230339M05 gene	AK122470	1.03476
RIKEN cDNA A230098E07 gene	NM_008899	-1.27942
Mus musculus olfactory receptor 560 (Olfr560), mRNA [NM_147113]	NM_147113	-1.06435
Similar to keratinocytes proline-rich protein	AK003253	-1.21611
Mus musculus stromal antigen 2 (Stag2), mRNA [NM_021465]	NM_021465	-1.12921
plasma membrane associated protein, S3-12	NM_020568	-1.04222
Mus musculus dendritic cell protein GA17 (Ga17), mRNA [NM_145380]	NM_145380	-1.52425
Mus musculus olfactory receptor 1402 (Olfr1402), mRNA [NM_146275]	NM_146275	1.00257
Mus musculus solute carrier family 5, member 4a (Slc5a4a), mRNA [NM_133181]	NM_133181	-1.11647
Mus musculus RIKEN cDNA 2810439K08 gene (2810439K08Rik), mRNA [NM_028343]	NM_028343	-1.05997
AGENCOURT_10029731 NIH_MGC_94 Mus musculus cDNA clone IMAGE:645	BU504102	1.03391
RIKEN cDNA 2610024E20 gene	BC029030	-1.16002

Mus musculus placenta specific homeobox 1 (Psx1), mRNA [NM_008955]	NM_008955	1.02695
Dimethylglycine dehydrogenase precursor	NM_028772	1.04556
Mus musculus G protein-coupled receptor 109B (Gpr109b), mRNA [NM_030701]	NM_030701	-1.16174
Mus musculus RIKEN cDNA C330008L01 gene (C330008L01Rik), mRNA [NM_175351]	NM_175351	1.27442
Mus musculus solute carrier family 27 (fatty acid transporter), member 5 (Slc27ε), mRNA [NM_009512]	NM_009512	-1.03467
Mus musculus ribosomal protein S6 kinase-like 1 (Rps6kl1), mRNA [NM_146244]	NM_146244	-1.01856
Mus musculus CEA-related cell adhesion molecule 13 (Ceacam13), mRNA [NM_027210]	NM_027210	1.07217
RIKEN cDNA 3110045G13 gene	AK042308	1.04004
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:AK019816	AK019816	-1.03535
Mus musculus Fc receptor, IgE, high affinity I, alpha polypeptide (Fcer1a), mRNA [NM_010184]	NM_010184	1.03671
Mus musculus EH-domain containing 3 (Ehd3), mRNA [NM_020578]	NM_020578	-1.3318
Mus musculus arachidonate lipoxygenase 3 (Aloxe3), mRNA [NM_011786]	NM_011786	-1.04322
Mus musculus ral guanine nucleotide dissociation stimulator (Ralgds), mRNA [NM_009058]	NM_009058	-1.16752
Proprotein convertase subtilisin/kexin type 5	D17583	1.07346
Mus musculus ornithine transcarbamylase (Otc), mRNA [NM_008769]	NM_008769	-1.00707
Mus musculus fibronectin type 3 and ankyrin repeat domains 1 (Fank1), mRNA [NM_025850]	NM_025850	-1.29959
Mus musculus predicted gene ICRFP703B1614Q5.6 (ICRFP703B1614Q5.6), mRNA [NM_020616]	NM_020616	-1.15975
Mus musculus F-box and leucine-rich repeat protein 15 (Fbxl15), mRNA [NM_133694]	NM_133694	-1.03241
Mus musculus left-right determination, factor B (Leftb), mRNA [NM_010094]	NM_010094	1.0314
Mus musculus RIKEN cDNA 0610042I15 gene (0610042I15Rik), mRNA [NM_019661]	NM_019661	1.05598
Mus musculus myosin IXb (Myo9b), mRNA [NM_015742]	NM_015742	-1.12563
hypothetical gene supported by AK045595	NM_198629	1.23577
Retinoic acid receptor responder (tazarotene induced) 1	AK077393	-1.07539
Mus musculus lymphocyte antigen 6 complex, locus A (Ly6a), mRNA [NM_010738]	NM_010738	-1.4186
Mus musculus RIKEN cDNA A330019N05 gene (A330019N05Rik), mRNA [NM_175448]	NM_175448	1.00407
Mus musculus RIKEN cDNA B430110G05 gene (B430110G05Rik), mRNA [NM_178696]	NM_178696	-1.1799
otopettrin 2	NM_172801	1.06779
Mus musculus histocompatibility 2, T region locus 10 (H2-T10), mRNA [NM_010395]	NM_010395	-1.3297
Mus musculus adult retina cDNA, RIKEN full-length enriched library, clone:A930	AK044484	1.35638
Cleavage and polyadenylation specific factor 6	AK077833	-1.10935
Mus musculus nucleoporin 153 (Nup153), mRNA [NM_175749]	NM_175749	1.14736
RIKEN cDNA 2610303G11 gene	AK011970	-1.51939
Mus musculus olfactory receptor 57 (Olfr57), mRNA [NM_147041]	NM_147041	-1.0019
Cytochrome b reductase 1	AK029112	1.09806
RIKEN cDNA 3110030K17 gene	AK014098	-1.21004
Mus musculus anaphase promoting complex subunit 1 (Anapc1), mRNA [NM_008569]	NM_008569	-1.36069
Mus musculus necdin-like 2 (Ndnl2), mRNA [NM_023239]	NM_023239	-1.13299
Mus musculus myotubularin related protein 3 (Mtmr3), mRNA [NM_028860]	NM_028860	1.06805
Mus musculus galactose-4-epimerase, UDP (Gale), mRNA [NM_178389]	NM_178389	1.05434
RIKEN cDNA C630044B11 gene	AK018789	-1.15538
Ankyrin repeat and SOCS box-containing 16	AK038411	1.05729
Mus musculus ubiquitin-like, containing PHD and RING finger domains 2 (Uhrf2), mRNA [NM_144873]	NM_144873	-1.17399
SUMO1/sentrin specific protease 7	AK020068	-1.10909
Mus musculus RIKEN cDNA 1810010N17 gene (1810010N17Rik), mRNA [NM_025455]	NM_025455	-1.09269
Mus musculus olfactory receptor 110 (Olfr110), mRNA [NM_146328]	NM_146328	1.06776
602828342F1 NCI_CGAP_Co24 Mus musculus cDNA clone IMAGE:4983106 5	BG963265	1.11872
Transcribed locus, weakly similar to XP_282988.2 PREDICTED: similar to novel	AA718294	1.03201
Protein-O-mannosyltransferase 2	AY090481	1.09474
RIKEN cDNA 3110023G01 gene	AK014074	-1.20449
Mus musculus RIKEN cDNA 4933428I03 gene (4933428I03Rik), mRNA [NM_025760]	NM_025760	1.00209
taxilin	BC060227	-1.16778
Mus musculus synaptotagmin 2 (Syt2), mRNA [NM_009307]	NM_009307	1.12116

Mus musculus small proline-rich protein 2G (Sprr2g), mRNA [NM_011473]	NM_011473	1.14163
Mus musculus RIKEN cDNA 1700049L16 gene (1700049L16Rik), mRNA [NM_175390]	NM_175390	1.01479
Mus musculus exosome component 1 (Exosc1), mRNA [NM_025644]	NM_025644	-1.33209
Baculoviral IAP repeat-containing 5	NM_009689	-1.0833
Mus musculus olfactory receptor 178 (Olfr178), mRNA [NM_146997]	NM_146997	1
Mus musculus RIKEN cDNA 2310020A21 gene (2310020A21Rik), mRNA [NM_175249]	NM_175249	1.16695
Mus musculus 0 day neonate skin cDNA, RIKEN full-length enriched library, clone:AK019493	AK019493	1.01328
ES cells cDNA, RIKEN full-length enriched library, clone:C330017D18 product:uAK049252	AK049252	1.09371
Mus musculus Kruppel-like factor 2 (lung) (Klf2), mRNA [NM_008452]	NM_008452	-1.24199
Mus musculus manic fringe homolog (Drosophila) (Mfng), mRNA [NM_008595]	NM_008595	1.11095
Mus musculus exosome component 5 (Exosc5), mRNA [NM_138586]	NM_138586	1.24212
Mus musculus SRY-box containing gene 15 (Sox15), mRNA [NM_009235]	NM_009235	1.25536
Mus musculus RIKEN cDNA C530044N13 gene (C530044N13Rik), mRNA [NM_146067]	NM_146067	-1.25199
Mus musculus olfactory receptor 74 (Olfr74), mRNA [NM_054091]	NM_054091	1.0452
Mus musculus chemokine (C-C motif) ligand 4 (Ccl4), mRNA [NM_013652]	NM_013652	1.01597
RIKEN cDNA 2610014F08 gene	BC061948	1.0361
Mus musculus vomeronasal 1 receptor, G7 (V1rg7), mRNA [NM_134208]	NM_134208	1.02121
Mus musculus RIKEN cDNA 6720460F02 gene (6720460F02Rik), mRNA [NM_144526]	NM_144526	1.0313
Mus musculus TATA box binding protein (Tbp)-associated factor, RNA polymerase II	NM_021466	1.02492
Mus musculus caspase 14 (Casp14), mRNA [NM_009809]	NM_009809	1.02437
Mus musculus RIKEN cDNA 3010021M21 gene (3010021M21Rik), mRNA [NM_180600]	NM_180600	-1.01156
Mus musculus olfactory receptor 818 (Olfr818), mRNA [NM_146777]	NM_146777	1.03112
Mus musculus deoxynucleotidyltransferase, terminal (Dntt), mRNA [NM_009345]	NM_009345	-1.03413
RIKEN cDNA 2810012H18 gene	AK084334	1.02624
RIKEN cDNA A230067G21 gene	AK086241	-1.01224
Mus musculus regulator of G-protein signaling 19 interacting protein 1 (Rgs19ip)	NM_018771	1.16496
Mus musculus E74-like factor 5 (Elf5), mRNA [NM_010125]	NM_010125	-1.1966
Mus musculus RIKEN cDNA 2310002B14 gene (2310002B14Rik), mRNA [NM_027105]	NM_027105	-1.01358
Keratin 25D	AK014642	-1.07822
Mus musculus RIKEN cDNA 1200013F24 gene (1200013F24Rik), mRNA [NM_025822]	NM_025822	-1.24335
Mus musculus RIKEN cDNA D630029K19 gene (D630029K19Rik), mRNA [NM_172680]	NM_172680	-1.18051
CDC2-related kinase 7	AK129237	1.16337
Mus musculus huntingtin interacting protein 1 related (Hip1r), mRNA [NM_145070]	NM_145070	1.06518
RIKEN cDNA 9430080K19 gene	AK020498	-1.12435
Mus musculus plakophilin 1 (Pkp1), mRNA [NM_019645]	NM_019645	-1.24501
Mus musculus follicle stimulating hormone receptor (Fshr), mRNA [NM_013523]	NM_013523	1.09022
Mus musculus CD3 antigen, gamma polypeptide (Cd3g), mRNA [NM_009850]	NM_009850	-1.07377
RIKEN cDNA 5430433J05 gene	AK017387	1.13566
Mus musculus RIKEN cDNA C230030N03 gene (C230030N03Rik), mRNA [NM_172847]	NM_172847	-1.01142
Mus musculus methionine aminopeptidase 2 (Metap2), mRNA [NM_019648]	NM_019648	-1.26695
Mus musculus RIKEN cDNA 4932412H11 gene (4932412H11Rik), mRNA [NM_172879]	NM_172879	-1.13295
Mus musculus expressed sequence AI452372 (AI452372), mRNA [NM_178719]	NM_178719	-1.09985
Mus musculus RIKEN cDNA A930018P22 gene (A930018P22Rik), mRNA [NM_026634]	NM_026634	-1.00113
RIKEN cDNA 4930526I15 gene	BC059852	-1.01838
RIKEN cDNA 9230110F15 gene	AK020329	1.01319
Mus musculus actin, gamma, cytoplasmic (Actg), mRNA [NM_013798]	NM_013798	1.13727
Contactin associated protein-like 2	AK017341	-1.01243
Mus musculus EH-domain containing 4 (Ehd4), mRNA [NM_133838]	NM_133838	-1.1213
Mus musculus RIKEN cDNA A630084M22 gene (A630084M22Rik), mRNA [NM_177305]	NM_177305	-1.03422
Mus musculus junctophilin 3 (Jph3), mRNA [NM_020605]	NM_020605	1.12642
Mus musculus factor in the germline alpha (Figla), mRNA [NM_012013]	NM_012013	1
Mus musculus RIKEN cDNA 9930116P15 gene (9930116P15Rik), mRNA [XM_127961]	XM_127961	-1.17804

Mus musculus RIKEN cDNA 4921504I05 gene (4921504I05Rik), mRNA [NM_0:NM_025719		1.06956
Olfactory receptor 59	AF102538	1.01173
Mus musculus RNA polymerase 1-2 (Rpo1-2), mRNA [NM_009086]	NM_009086	-1.04101
Mus musculus RIKEN cDNA 4732497O03 gene (4732497O03Rik), mRNA [NM_NM_144826		-1.02259
Zinc finger protein 62	BC065692	-1.46465
Mus musculus scavenger receptor class B, member 2 (Scarb2), mRNA [NM_00 NM_007644		-1.13721
SH2 domain containing 3C	AK018150	1.09599
Mus musculus chromobox homolog 3 (Drosophila HP1 gamma) (Cbx3), mRNA NM_007624		-1.19206
Yamaguchi sarcoma viral (v-yes) oncogene homolog 1	NM_009535	-1.40853
Mus musculus ADP-ribosylation factor 2 (Arf2), mRNA [NM_007477]	NM_007477	1.06628
RIKEN cDNA 2700008N14 gene	BC062928	1.17927
RIKEN cDNA A630072M18 gene	AK033374	-1.28589
Mus musculus solute carrier family 6 (neurotransmitter transporter), member 14 NM_020049		-1.04682
Mus musculus RIKEN cDNA C730048E16 gene (C730048E16Rik), mRNA [NM_NM_144849		1.21734
Mus musculus RIKEN cDNA 2610007K22 gene (2610007K22Rik), transcript vari NM_199080		-1.0109
Mus musculus kelch repeat and BTB (POZ) domain containing 4 (Kbtbd4), mRNA NM_025991		-1.31055
RIKEN cDNA 3200001K10 gene	AK014289	1.04169
RIKEN cDNA 1110007C24 gene	NM_025382	-1.26143
Mus musculus, clone IMAGE:6704545, mRNA	AK036529	1.03295
Mus musculus olfactory receptor 1330 (Olfr1330), mRNA [NM_146334]	NM_146334	-1.10085
Mus musculus solute carrier family 22 (organic cation transporter), member 5 (S NM_011396		-1.09791
Mus musculus distal-less homeobox 4 (Dlx4), mRNA [NM_007867]	NM_007867	1.38149
WW domain containing E3 ubiquitin protein ligase 1	AK033138	-1.11388
RAB GTPase activating protein 1	AK044346	-1.09567
Mus musculus formin binding protein 1 (Fbnp1), mRNA [NM_019406]	NM_019406	1.11801
Mus musculus zinc finger and BTB domain containing 33 (Zbtb33), mRNA [NM_NM_020256		-1.08871
Mus musculus mannosidase 2, alpha B1 (Man2b1), mRNA [NM_010764]	NM_010764	-1.05998
hypothetical protein A730008H23	NM_172505	1.01678
Inhibin beta-B	X69620	-1.2336
genes associated with retinoid-IFN-induced mortality 19	NM_023312	-1.12821
Mus musculus F-box only protein 8 (Fbxo8), mRNA [NM_015791]	NM_015791	-1.3232
Zinc finger protein 367	NM_175494	-1.88367
Mus musculus olfactory receptor MOR253-5 (MOR253-5), mRNA [NM_146960] NM_146960		1.12247
Mus musculus ribosomal protein L8 (Rpl8), mRNA [NM_012053]	NM_012053	-1.06775
Mus musculus mitogen activated protein kinase kinase kinase 1 (Map3k1), mRNA NM_011945		-1.06828
Mus musculus tyrosinase-related protein 1 (Tyrp1), mRNA [NM_031202]	NM_031202	1.02169
RIKEN cDNA A930029K19 gene	AK043484	1.08018
Mus musculus pleckstrin homology domain containing, family F (with FYVE domr NM_024413		1.04181
Mus musculus olfactory receptor 658 (Olfr658), mRNA [NM_147049]	NM_147049	1.08638
RIKEN cDNA 8030474K03 gene	AK033245	1.09595
Mus musculus uracil-DNA glycosylase (Ung), mRNA [NM_011677]	NM_011677	1.00495
RIKEN cDNA 3110043A19 gene	AK014168	1.08813
Mus musculus tumor necrosis factor receptor superfamily, member 18 (Tnfrsf18 NM_009400		-1.22498
Mus musculus adrenomedullin (Adm), mRNA [NM_009627]	NM_009627	1.03364
Mus musculus VPS10 domain receptor protein SORCS 1 (Sorcs1), mRNA [NM_NM_021377		-1.08362
ATP synthase, H+ transporting mitochondrial F1 complex, beta subunit	AK079828	-1.24825
Mus musculus integrin alpha L (Itgal), mRNA [NM_008400]	NM_008400	1.0038
Mus musculus phosphatidylinositol transfer protein (Pitpn), mRNA [NM_008850] NM_008850		-1.26922
Mus musculus vomeronasal 1 receptor, C27 (V1rc27), mRNA [NM_134182]	NM_134182	1.1957
RIKEN cDNA 6530402F18 gene	AK018312	1.11336
Mus musculus peptidylprolyl isomerase E (cyclophilin E) (Ppie), mRNA [NM_01:NM_019489		-1.12402
Mus musculus macrophage stimulating 1 (hepatocyte growth factor-like) (Mst1), NM_008243		-1.02656

Mus musculus ilvB (bacterial acetolactate synthase)-like (Ilvbl), mRNA [NM_173 NM_173751]		1.08983
Mus musculus hypothetical protein 6820428D13 (6820428D13), mRNA [NM_17 NM_177752]		-1.05576
Mus musculus vomeronasal 1 receptor, C13 (V1rc13), mRNA [NM_134168]	NM_134168	-1.06126
Mus musculus olfactory receptor 823 (Olfr823), mRNA [NM_146673]	NM_146673	1.226
PHD finger protein 3	AK122230	1.12694
Mus musculus RAN GTPase activating protein 1 (Rangap1), mRNA [NM_01124 NM_011241]		1.07065
Mus musculus zinc fingers and homeoboxes 3 (Zhx3), mRNA [NM_177263]	NM_177263	1.08285
Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched li	AK047388	-1.05897
Mus musculus 12 days embryo spinal ganglion cDNA, RIKEN full-length enriche	AK051449	-1.03915
Mus musculus Tnf receptor-associated factor 3 (Traf3), mRNA [NM_011632]	NM_011632	1.04106
Mus musculus olfactory receptor 202 (Olfr202), mRNA [NM_146995]	NM_146995	1.02174
similar to RIKEN cDNA 2610524H06 gene	BC056356	1.06059
Mus musculus RIKEN cDNA 1700013H19 gene (1700013H19Rik), mRNA [NM_ NM_027954]		1.02169
Immunoglobulin heavy chain (J558 family)	BC049143	-1.39867
Mus musculus RIKEN cDNA 2310069P03 gene (2310069P03Rik), mRNA [NM_ NM_028002]		-1.22509
Mus musculus annexin A10 (Anxa10), mRNA [NM_011922]	NM_011922	-1.18509
Mus musculus myotrophin (Mtpn), mRNA [NM_008098]	NM_008098	-1.0463
Mus musculus dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-	NM_030225	1.07446
Mus musculus serine/threonine kinase 38 like (Stk38l), mRNA [NM_172734]	NM_172734	-1.12387
Serine (or cysteine) proteinase inhibitor, clade A, member 3G	M64085	-1.05429
Nucleoporin 205	AK041272	-1.05707
Unknown		1.03741
RIKEN cDNA 1810037G04 gene	AK007718	-1.27949
Mus musculus 2 days pregnant adult female oviduct cDNA, RIKEN full-length er	AK054129	1.00806
Mus musculus RIKEN cDNA 2010001M09 gene (2010001M09Rik), mRNA [NM_ NM_027222]		-1.0543
Expressed sequence C77604	BC006861	-1.26865
RIKEN cDNA 5830403E09 gene	AK029171	-1.032
Mus musculus SA rat hypertension-associated homolog (Sah), transcript variant	NM_212441	1.02166
Mus musculus olfactory receptor 1208 (Olfr1208), mRNA [NM_146778]	NM_146778	-1.00352
Transmembrane protease, serine 13	BC042878	1.09392
Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 9 (Abcd	NM_019875	-1.0591
Mus musculus cDNA sequence BC020188 (BC020188), mRNA [NM_199222]	NM_199222	1.02605
Mus musculus odd-skipped related 1 (Drosophila) (Odd1), mRNA [NM_011859]	NM_011859	1.10021
Mus musculus secernin 2 (Scrn2), mRNA [NM_146027]	NM_146027	1.00568
RIKEN cDNA 2310007D09 gene	BC064129	1.01701
Mus musculus RIKEN cDNA 1700091F14 gene (1700091F14Rik), mRNA [NM_ NM_183099]		1.00741
Mus musculus high mobility group box transcription factor 1 (Hbp1), mRNA [NM_ NM_177993]		-1.01649
Mus musculus coronin, actin binding protein 6 (Coro6), mRNA [NM_139128]	NM_139128	-1.26827
Mus musculus synaptotagmin-like 4 (Sytl4), mRNA [NM_013757]	NM_013757	-1.14631
Mus musculus crystallin, beta B2 (Crybb2), mRNA [NM_007773]	NM_007773	-1.19905
Mus musculus neurogenin 1 (Neurog1), mRNA [NM_010896]	NM_010896	1.08785
Mus musculus cDNA sequence BC021395 (BC021395), mRNA [NM_144861]	NM_144861	-1.10811
Mus musculus N-acylsphingosine amidohydrolase 1 (Asah1), mRNA [NM_0197. NM_019734]		-1.49911
RIKEN cDNA B430218L07 gene	AK046646	1.14439
RIKEN cDNA 6230416A05 gene	AK018089	-1.26721
RIKEN cDNA 1110033L15 gene	AK029184	1.05414
RIKEN cDNA 5730405M06 gene	AK038502	1.08507
RIKEN cDNA C230086A09 gene	AK048961	-1.33239
Adult male bone cDNA, RIKEN full-length enriched library, clone:9830168M11 p	AK036733	-1.04291
Unknown		-1.63464
Mus musculus RIKEN cDNA 5430413I02 gene (5430413I02Rik), mRNA [NM_0. NM_019976]		-1.17559
Mus musculus endothelin receptor type A (Ednra), mRNA [NM_010332]	NM_010332	1.2746

Mus musculus stathmin 1 (Stmn1), mRNA [NM_019641]	NM_019641	1.14574
V-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)	BC049279	-1.12584
Mus musculus protein kinase C, theta (Prkcq), mRNA [NM_008859]	NM_008859	-1.12796
Mus musculus DNA segment, Chr 11, ERATO Doi 18, expressed (D11Ert18e),	NM_026740	1.04722
Mus musculus sorbitol dehydrogenase 1 (Sdh1), mRNA [NM_146126]	NM_146126	1.09296
Mus musculus cell division cycle associated 7 (Cdca7), mRNA [NM_025866]	NM_025866	-1.00408
GTPase, IMAP family member 3	NM_031247	-1.02722
Mus musculus zinc finger protein 68 (Zfp68), mRNA [NM_013844]	NM_013844	-1.58536
hypothetical protein C130086A10	NM_173746	-1.21576
Mus musculus olfactory receptor 1273 (Olfr1273), mRNA [NM_146975]	NM_146975	1.00985
Mus musculus ATPase, Class V, type 10D (Atp10d), mRNA [NM_153389]	NM_153389	1.0765
RIKEN cDNA 4732486I23 gene	BC021511	-1.30025
RIKEN cDNA 6030465E24 gene	BC019404	-1.29397
DNA segment, Chr 19, Brigham & Women's Genetics 1357 expressed	AK031451	1.03592
Mus musculus RIKEN cDNA 6230425F05 gene (6230425F05Rik), mRNA [XM_	XM_129027	-1.02107
Mus musculus olfactory receptor 398 (Olfr398), mRNA [NM_146710]	NM_146710	1.07471
RIKEN cDNA 1810033M07 gene	AK007800	1.11306
Zinc finger protein 580	AK005257	1.13918
Mus musculus DNA primase, p58 subunit (Prim2), mRNA [NM_008922]	NM_008922	-1.26761
Synaptopodin	AK034012	1.05495
Mus musculus RIKEN cDNA 4930513F16 gene (4930513F16Rik), mRNA [NM_	NM_028848	1.11647
Mus musculus G protein-coupled receptor 68 (Gpr68), mRNA [NM_175493]	NM_175493	1.33703
RIKEN cDNA 4930431F10 gene	AK015266	-1.24369
Mus musculus cystatin E/M (Cst6), mRNA [NM_028623]	NM_028623	1.03208
Mus musculus zinc finger protein 36 (Zfp36), mRNA [NM_011756]	NM_011756	1.07446
Mus musculus olfactory receptor 926 (Olfr926), mRNA [NM_146815]	NM_146815	1.10818
hypothetical protein 6030458H05	NM_177766	1.08913
Mus musculus endoplasmic reticulum (ER) to nucleus signalling 1 (Ern1), mRNA	NM_023913	1.11486
Mus musculus prostaglandin E receptor 1 (subtype EP1) (Ptger1), mRNA [NM_	(NM_013641	1.02748
Chromobox homolog 6	NM_030689	-1.20439
Mus musculus RIKEN cDNA 9930020N01 gene (9930020N01Rik), mRNA [NM_	NM_172922	1.09507
EF-hand domain (C-terminal) containing 1	AK006489	-1.07207
Mus musculus apoptosis-associated tyrosine kinase (Aatk), mRNA [NM_007377	NM_007377	-1.14665
Mus musculus adult male diencephalon cDNA, RIKEN full-length enriched librar	AK034075	1.04416
Mus musculus D site albumin promoter binding protein (Dbp), mRNA [NM_0169	NM_016974	1.0607
Mus musculus ephrin A5 (Efna5), transcript variant 1, mRNA [NM_207654]	NM_207654	-1.00317
Mus musculus keratocan (Kera), mRNA [NM_008438]	NM_008438	1.19035
Mus musculus zinc finger protein 96 (Zfp96), mRNA [NM_016684]	NM_016684	-1.28952
Mus musculus olfactory receptor 214 (Olfr214), mRNA [NM_146759]	NM_146759	1.11248
Mus musculus RIKEN cDNA A530083I02 gene (A530083I02Rik), mRNA [NM_1	NM_173444	-1.43527
Phosphoglycerate dehydrogenase like 1	AK049109	-1.02001
Mus musculus huntingtin-associated protein 1 (Hap1), transcript variant 1, mRNA	NM_010404	1.05278
PCTAIRE-motif protein kinase 2	AK078325	1.33008
Mus musculus general transcription factor II A, 2 (Gtf2a2), mRNA [NM_199151]	NM_199151	-1.85018
Mus musculus cDNA sequence BC031441 (BC031441), mRNA [NM_146249]	NM_146249	-1.6008
Mus musculus ribosomal protein L39 (Rpl39), mRNA [NM_026055]	NM_026055	-1.18543
CCAAT/enhancer binding protein (C/EBP), gamma	BC011319	-1.03706
Mus musculus CD8 antigen, beta chain (Cd8b), mRNA [NM_009858]	NM_009858	-1.09909
Mus musculus nuclear cap binding protein subunit 2 (Ncbp2), mRNA [NM_0265	NM_026554	-1.41868
Mus musculus RIKEN cDNA 4833422F24 gene (4833422F24Rik), mRNA [NM_	NM_029021	1.10229
Immunoresponsive gene 1	L38281	-1.09951
Small nuclear RNA activating complex, polypeptide 3	AK049933	-1.16241

Mus musculus ubiquitin specific protease 3 (Usp3), mRNA [NM_144937]	NM_144937	-1.03998
Expressed sequence AI662250	NM_178926	1.07727
Mus musculus vacuolar protein sorting 33A (yeast) (Vps33a), mRNA [NM_0299:NM_029929]		-1.02954
Mus musculus RIKEN cDNA 4632422M10 gene (4632422M10Rik), mRNA [NM_NM_172807]		-1.12457
C1q and tumor necrosis factor related protein 4	AK038464	1.06229
Mus musculus expressed sequence AI837181 (AI837181), mRNA [NM_134149:NM_134149]		1.22126
Mus musculus RIKEN cDNA A630005A06 gene (A630005A06Rik), mRNA [NM_NM_198664]		1.21286
Mus musculus transcription factor 20 (Tcf20), mRNA [NM_013836]	NM_013836	-1.02303
Mus musculus v-crk sarcoma virus CT10 oncogene homolog (avian) (Crk), mRNA [NM_133656]		-1.42487
Mus musculus dimethylarginine dimethylaminohydrolase 1, mRNA (cDNA clone BC060266)		-1.09195
Mus musculus stromal cell derived factor receptor 2 (Sdfr2), mRNA [NM_00914:NM_009146]		1.05276
Mus musculus glutamate-rich WD repeat containing 1 (Grwd1), mRNA [NM_153:NM_153419]		-1.01179
Mus musculus interleukin 1 receptor antagonist (Il1rn), mRNA [NM_031167]	NM_031167	-1.05331
Mus musculus lactotransferrin (Ltf), mRNA [NM_008522]	NM_008522	1.03261
Rho guanine nucleotide exchange factor (GEF) 11	BC054078	-1.01218
Mus musculus expressed sequence AI849286 (AI849286), mRNA [XM_194372:XM_194372]		1.11422
Mus musculus proteasome (prosome, macropain) subunit, beta type 8 (large subunit) (Psmc8), mRNA [NM_010724]		-1.19182
Potassium voltage-gated channel, Shal-related family, member 2	AK032319	1.15558
Mus musculus sema domain, transmembrane domain (TM), and cytoplasmic domain (CD) protein 1 (Sema4d), mRNA [NM_013662]		-1.06953
Mus musculus RIKEN cDNA 1200016C12 gene (1200016C12Rik), mRNA [NM_NM_028660]		-1.07303
Fas (TNF receptor superfamily member)	NM_007987	-1.17839
RIKEN cDNA 6230409E13 gene	BC059864	1.00141
Mus musculus dipeptidylpeptidase 8 (Dpp8), mRNA [NM_028906]	NM_028906	-1.30536
Mus musculus claudin 13 (Cldn13), mRNA [NM_020504]	NM_020504	1.11411
Mus musculus Cdk5 and Abl enzyme substrate 1 (Cables1), mRNA [NM_02202:NM_022021]		-1.0512
Signal peptide, CUB domain, EGF-like 3	AK083515	-1.09839
RIKEN cDNA 4932417H02 gene	AK016530	1.13913
RIKEN cDNA C030027K23 gene	BC025847	-1.00029
Mus musculus otopetrin 1 (Otop1), transcript variant a, mRNA [NM_172709]	NM_172709	1.02935
RIKEN cDNA 4921513D11 gene	AK014877	1.12096
Mus musculus RIKEN cDNA 6030441H18 gene (6030441H18Rik), mRNA [NM_NM_177893]		1.04423
Mus musculus cut-like 2 (Drosophila) (Cutl2), mRNA [NM_007804]	NM_007804	-1.24583
Heat shock protein 1, alpha	AK046895	1.04331
RIKEN cDNA 1700012B07 gene	AK005888	1.0662
RIKEN cDNA 9230112D13 gene	AK020336	1.02833
Mus musculus protein kinase C, gamma (Prkcc), mRNA [NM_011102]	NM_011102	1.01297
Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 6 (Dnajc6), mRNA [NM_198412]		-1.06211
Mus musculus RIKEN cDNA 4933407K12 gene (4933407K12Rik), mRNA [XM_XM_148436]		-1.09546
Mus musculus cathelicidin antimicrobial peptide (Camp), mRNA [NM_009921]	NM_009921	-1.18337
Mus musculus olfactory receptor 166 (Olfr166), mRNA [NM_147068]	NM_147068	1.14153
Mus musculus olfactory receptor 1450 (Olfr1450), mRNA [NM_146371]	NM_146371	1.0493
Mus musculus choline/ethanolaminephosphotransferase 1 (Cept1), mRNA [NM_NM_133869]		-1.15993
Mus musculus G two S phase expressed protein 1 (Gtse1), mRNA [NM_013882:NM_013882]		1.05226
Mus musculus RIKEN cDNA 0610039K22 gene (0610039K22Rik), mRNA [NM_NM_025346]		1.13451
Mus musculus RIKEN cDNA C130076O07 gene (C130076O07Rik), mRNA [NM_NM_176930]		1.01707
Mus musculus phosphatidylinositol-4-phosphate 5-kinase, type 1 gamma (Pip5k1g), mRNA [NM_008844]		1.23947
Mus musculus BarH-like homeobox 1 (Barx1), mRNA [NM_007526]	NM_007526	1.17277
RIKEN cDNA 1700030E15 gene	AK006538	1.00551
Mus musculus DNA segment, Chr 2, ERATO Doi 145, expressed (D2Ertd145e), mRNA [NM_175238]		-1.0506
Dihydropyrimidinase	BC029718	1.08812
Mus musculus RIKEN cDNA 5630401M14 gene (5630401M14Rik), mRNA [NM_NM_029413]		1.24396
Mus musculus Iroquois related homeobox 1 (Drosophila) (Irx1), mRNA [NM_010105:NM_010573]		1.63877

Mus musculus cellular retinoic acid binding protein II (Crabp2), mRNA [NM_007 NM_007759	-1.00727
Mus musculus ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide (Atp1b1), mRN	NM_009721 1.01533
Mus musculus Rho GTPase activating protein 10 (Arhgap10), mRNA [NM_0301 NM_030113	1.11492
Mus musculus olfactory receptor 54 (Olf54), mRNA [NM_010997] NM_010997	-1.05984
Mus musculus RIKEN cDNA 4930579A11 gene (4930579A11Rik), mRNA [NM_ NM_029478	-1.57669
Mus musculus tubulin, gamma complex associated protein 2 (Tubgcp2), mRNA NM_133755	1.04686
Mus musculus B-cell receptor-associated protein 37 (Bcap37), mRNA [NM_007 NM_007531	1.07324
Mus musculus lactase-like (LctI), mRNA [NM_145835] NM_145835	1.11535
RIKEN cDNA 5730508B09 gene AK017758	-1.36067
Mus musculus potassium voltage-gated channel, shaker-related subfamily, men	NM_010596 1.12417
Mus musculus RIKEN cDNA 1300018J18 gene (1300018J18Rik), mRNA [NM_ (NM_027905	1.06588
Mus musculus RIKEN cDNA 4930442L21 gene (4930442L21Rik), mRNA [NM_ (NM_026253	1.07527
SMC2 structural maintenance of chromosomes 2-like 1 (yeast) U42385	-1.19808
Mus musculus zinc finger protein 354A (Zfp354a), mRNA [NM_009329] NM_009329	-1.21709
Keratin complex 1, acidic, gene 3 X75650	1.05852
RIKEN cDNA A930017K11 gene BC058094	1.02921
Mus musculus TGFβ inducible early growth response 3 (Tieg3), mRNA [NM_17 NM_178357	1.0151
Mus musculus proteasome (prosome, macropain) subunit, alpha type 1 (Psm1 NM_011965	-1.55375
Mus musculus SMT3 suppressor of mif two 3 homolog 3 (yeast) (Sumo3), mRN. NM_019929	-1.31042
Mus musculus claudin 14 (Cldn14), mRNA [NM_019500] NM_019500	1.08081
Mus musculus DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 3, X-linked (Ddx NM_010028	-1.15154
Mus musculus, Similar to RIKEN cDNA 1200003I07 gene, clone IMAGE:138243 BC027541	-1.22996
Mus musculus RIKEN cDNA 2610019N13 gene (2610019N13Rik), mRNA [NM_ NM_026989	1.3552
RIKEN cDNA 4933413J09 gene AK087762	-1.04032
Mus musculus signal recognition particle receptor, B subunit (Srprb), mRNA [NM NM_009275	1.01242
Mus musculus zinc finger protein 92 (Zfp92), mRNA [NM_009566] NM_009566	-1.09846
Mus musculus defensin beta 13 (Defb13), mRNA [NM_139223] NM_139223	1.13155
Mus musculus acetyl-Coenzyme A synthetase 2 (ADP forming) (Acas2), mRNA NM_019811	-1.0455
Mus musculus RIKEN cDNA 2310043N13 gene (2310043N13Rik), mRNA [NM_ NM_025534	-1.59785
Mus musculus dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1b NM_010092	1.23738
Mus musculus RIKEN cDNA 2410017I18 gene (2410017I18Rik), mRNA [NM_0 NM_025547	-1.68288
Mus musculus olfactory receptor 547 (Olf547), mRNA [NM_147079] NM_147079	1.02342
Protein tyrosine phosphatase, non-receptor type 23 BC006582	1.12178
Mus musculus protein kinase, cGMP-dependent, type II (Prkg2), mRNA [NM_00 NM_008926	1.12025
RIKEN cDNA 2310058D17 gene AK080053	1.11575
Mus musculus lectin, galactose binding, soluble 8 (Lgals8), mRNA [NM_018886 NM_018886	-1.03608
Mus musculus spindlin (Spin), mRNA [NM_011462] NM_011462	-1.19474
Spectrin beta 2 BC024833	-1.33924
Immunoglobulin heavy chain (J558 family) BC004786	1.07342
Mus musculus RIKEN cDNA 1700128F08 gene (1700128F08Rik), mRNA [NM_ NM_029697	1.12059
Mus musculus arsA (bacterial) arsenite transporter, ATP-binding, homolog 1 (Ae NM_019652	-1.01846
Mus musculus matrix metalloproteinase 14 (membrane-inserted) (Mmp14), mRN NM_008608	-1.48547
Mus musculus proprotein convertase subtilisin/kexin type 1 inhibitor (Pcsk1n), r NM_013892	-1.11079
Unknown	1.14837
Mus musculus vacuolar protein sorting 4b (yeast) (Vps4b), mRNA [NM_009190] NM_009190	-1.23451
Mus musculus ADP-ribosylation factor-like 6 interacting protein 2 (Arl6ip2), mRN NM_019717	-1.40022
AIX_MOUSE Alpha-internexin (Alpha-Inx) (66 kDa neurofilament protein) (Neurofilament-66)	1.01316
Mus musculus H2A histone family, member Y2 (H2afy2), mRNA [NM_026230] NM_026230	-1.06885
Mus musculus solute carrier family 25 (mitochondrial carrier, Aralar), member 1 NM_172436	-1.19173
Mus musculus importin 11 (Ipo11), mRNA [NM_029665] NM_029665	-1.12281
Mus musculus RIKEN cDNA 4933403F05 gene (4933403F05Rik), mRNA [NM_ NM_153794	-1.12497
RIKEN cDNA 4921515J06 gene AK005845	1.09917

Mus musculus deoxyuridine triphosphatase (Dutp), mRNA [NM_023595]	NM_023595	-1.44255
RIKEN cDNA 5330426P16 gene	AK052569	-1.20714
Mus musculus guanylate cyclase 2e (Gucy2e), mRNA [NM_008192]	NM_008192	-1.00116
Zinc finger with KRAB and SCAN domains 1	AK020355	-1.08239
RIKEN cDNA 3110050K21 gene	AK011176	1.35756
Mus musculus RIKEN cDNA 1700074P13 gene (1700074P13Rik), mRNA [NM_028550]	NM_028550	1.10309
Protein tyrosine phosphatase, receptor-type, F interacting protein, binding protei	AK017242	1.00578
Mus musculus phosphatidylinositol glycan, class T (Pigt), mRNA [NM_133779]	NM_133779	4.39012
Mus musculus N-acetyltransferase 1 (arylamine N-acetyltransferase) (Nat1), mF	NM_008673	1.12017
Mus musculus homeo box B13 (Hoxb13), mRNA [NM_008267]	NM_008267	-1.19217
Mus musculus fatty acid synthase (Fasn), mRNA [NM_007988]	NM_007988	-1.07291
Expressed sequence BQ952480	AK078889	-1.11409
Mus musculus adult male olfactory brain cDNA, RIKEN full-length enriched libra	AK078169	-1.67371
Mus musculus fos-like antigen 2 (Fosl2), mRNA [NM_008037]	NM_008037	-1.13349
Mus musculus tubulin, delta 1 (Tubd1), mRNA [NM_019756]	NM_019756	-1.06571
Mus musculus lipoic acid synthetase (Lias), mRNA [NM_024471]	NM_024471	-1.25419
Mus musculus hypothetical protein C230003M11 (C230003M11), mRNA [XM_356161]	XM_356161	-1.17824
Mus musculus dickkopf-like 1 (Dkk1), mRNA [NM_015789]	NM_015789	1.13867
RIKEN cDNA 4930516K23 gene	AK015805	1.06238
RIKEN cDNA 2410012H02 gene	AK004405	-1.18458
Mus musculus dystrobrevin binding protein 1 (Dtnbp1), mRNA [NM_025772]	NM_025772	1.00374
PHD finger protein 20-like 1	AK053606	-1.54991
RIKEN cDNA 9430071P14 gene	BC058741	1.13471
Mus musculus metaxin 2 (Mtx2), mRNA [NM_016804]	NM_016804	-1.40206
Mus musculus protocadherin beta 18 (Pcdhb18), mRNA [NM_053143]	NM_053143	1.01804
Mus musculus Kruppel-like factor 5 (Klf5), mRNA [NM_009769]	NM_009769	1.12347
Mus musculus RIKEN cDNA 4933407P14 gene (4933407P14Rik), mRNA [NM_199019]	NM_199019	-1.0395
Mus musculus RIKEN cDNA B430104H02 gene (B430104H02Rik), mRNA [NM_029629]	NM_029629	-1.02503
Ribosomal protein S6 kinase polypeptide 1	AK044809	-1.00651
Mus musculus RIKEN cDNA 4833420I20 gene (4833420I20Rik), mRNA [NM_133834]	NM_133834	-1.7121
Centaurin, beta 1	AK029819	-1.10263
Mus musculus cDNA sequence BC030417 (BC030417), mRNA [NM_153804]	NM_153804	1.10391
RIKEN cDNA 9630015D15 gene	AK035894	-1.47199
Mus musculus RIKEN cDNA 4930569K13 gene (4930569K13Rik), mRNA [NM_029948]	NM_029948	-1.01954
RIKEN cDNA 2810002N01 gene	BC027827	1.00716
Similar to KIAA1000 protein	AK029539	1.25103
RIKEN cDNA 6330417K15 gene	AK018192	-1.03298
Mus musculus serine/threonine kinase 23 (Stk23), mRNA [NM_019684]	NM_019684	1.11627
RIKEN cDNA E130012M19 gene	AK053377	-1.55429
Mus musculus RIKEN cDNA 0610037L13 gene (0610037L13Rik), mRNA [NM_028754]	NM_028754	-1.16134
Mus musculus olfactory receptor 125 (Olfr125), mRNA [NM_146290]	NM_146290	1.07571
Mus musculus RIKEN cDNA 0610008C08 gene (0610008C08Rik), mRNA [NM_026673]	NM_026673	-1.26094
Mus musculus fos-like antigen 1 (Fosl1), mRNA [NM_010235]	NM_010235	1.01728
Mus musculus RIKEN cDNA 2810428J06 gene (2810428J06Rik), mRNA [NM_025941]	NM_025941	-1.02135
Mus musculus ubiquitin protein ligase E3A (Ube3a), transcript variant 2, mRNA	NM_011668	-1.396
Collagen triple helix repeat containing 1	AK090258	1.08173
Expressed sequence AV340375	AK032451	-1.18004
Unknown		-1.02873
Mus musculus homeo box A2 (Hoxa2), mRNA [NM_010451]	NM_010451	-1.12415
Crystallin, alpha A	J00376	1.00693
Single chain antibody ScFv	U26474	-1.06852
Mus musculus membrane-associated nucleic acid binding protein (Mnab-pendin	XM_130233	1.32813

Mus musculus RIKEN cDNA 1300013J15 gene (1300013J15Rik), mRNA [NM_026183]	1.06447
LPS-responsive beige-like anchor	NM_030695 -1.11448
Mus musculus SoxLZ/Sox6 leucine zipper binding protein in testis (Solt), mRNA [NM_021790]	-1.08734
Mus musculus RIKEN cDNA 2010011I20 gene (2010011I20Rik), mRNA [NM_025912]	-1.07932
RIKEN cDNA 5830403E09 gene	AK030794 1.40569
Mus musculus RIKEN cDNA 5730411O18 gene (5730411O18Rik), mRNA [NM_177370]	-1.02661
Mus musculus ribosomal protein L30 (Rpl30), mRNA [NM_009083]	NM_009083 -1.18426
Similar to heterogeneous nuclear ribonucleoprotein D-like; A+U-rich element RNA	AK017055 1.01593
RIKEN cDNA C130048D07 gene	AK048310 -1.01184
Mus musculus RIKEN cDNA 4933434L15 gene (4933434L15Rik), mRNA [NM_026231]	-1.07881
Mus musculus platelet derived growth factor receptor, alpha polypeptide (Pdgfra)	NM_011058 -1.60614
Mus musculus Notch gene homolog 2 (Drosophila) (Notch2), mRNA [NM_010928]	1.11244
OCIA domain containing 2	BC044883 -1.13867
Glucocorticoid induced transcript 1	AK013449 -1.09235
Mus musculus calcium binding protein 7 (Cabp7), mRNA [NM_138948]	NM_138948 -1.01102
Mus musculus DNA segment, Chr 4, ERATO Doi 478, expressed (D4Ertd478e),	NM_133872 -1.13079
Mus musculus RIKEN cDNA A330108F03 gene (A330108F03Rik), mRNA [NM_153142]	-1.10714
Mus musculus olfactory receptor 352 (Olfr352), mRNA [NM_146940]	NM_146940 1.094
Protocadherin 9	BC060736 -1.00376
Mus musculus lens intrinsic membrane protein 2 (Lim2), mRNA [NM_177693]	NM_177693 1.00372
Cytoplasmic FMR1 interacting protein 1	AK086452 1.06852
Mus musculus cyclin G2 (Ccng2), mRNA [NM_007635]	NM_007635 -1.49784
Ribosome binding protein 1	AK019964 1.1035
Mus musculus yes-associated protein (Yap), mRNA [NM_009534]	NM_009534 -1.3951
Mus musculus serologically defined breast cancer antigen 84 (Sdbcag84), mRNA	NM_025516 -1.1289
Mus musculus RIKEN cDNA 4932408F19 gene (4932408F19Rik), mRNA [NM_207225]	-1.04537
Dedicator of cytokinesis 10	AK034064 -1.02514
Mus musculus E4F transcription factor 1 (E4f1), mRNA [NM_007893]	NM_007893 1.06235
NIMA (never in mitosis gene a)-related expressed kinase 8	AF407579 1.00371
Mus musculus RIKEN cDNA 2700045P11 gene (2700045P11Rik), mRNA [XM_148080]	1.10535
Mus musculus RIKEN cDNA 9830169C18 gene (9830169C18Rik), mRNA [NM_172581]	1.10312
Mus musculus vomeronasal 1 receptor, D4 (V1rd4), mRNA [NM_030739]	NM_030739 -1.15706
BMP-binding endothelial regulator	NM_028472 -1.23828
Mus musculus MAS-related GPR, member A3 (Mrgpra3), mRNA [NM_153067]	NM_153067 1.09778
Mus musculus nudix (nucleotide diphosphate linked moiety X)-type motif 3 (Nud)	NM_019837 1.75525
Mus musculus RIKEN cDNA 2410042D21 gene (2410042D21Rik), mRNA [NM_024254]	-1.19436
Armadillo repeat containing 3	AK014880 -1.10026
RIKEN cDNA 1110051M20 gene	AK053282 1.02582
Mus musculus RIKEN cDNA 4933416E05 gene (4933416E05Rik), mRNA [NM_175163]	-1.00089
Mus musculus lysophospholipase 1 (Lypla1), mRNA [NM_008866]	NM_008866 -1.18399
RIKEN cDNA 1700001O02 gene	AK015391 -1.1181
AP2 associated kinase 1	AK129272 1.06788
RIKEN cDNA 2610028H24 gene	AK011591 -1.02998
TNNI3 interacting kinase	AK084817 1.05435
Mus musculus SET and MYND domain containing 5 (Smyd5), mRNA [NM_144918]	1.03303
RIKEN cDNA 1700023F06 gene	AK006273 1.24773
RIKEN cDNA E430002D04 gene	AK030813 1.06277
Mus musculus potassium channel tetramerisation domain containing 12b (Kctd1)	NM_175429 1.08398
Mus musculus leucine rich repeat transmembrane neuronal 3 (Lrrtm3), mRNA [NM_178678]	1.13318
Mus musculus RIKEN cDNA 9230106D23 gene (9230106D23Rik), mRNA [NM_172908]	1.11623
RIKEN cDNA 4933435E02 gene	AK017066 1.00896
Mus musculus 13 days embryo forelimb cDNA, RIKEN full-length enriched library	AK031095 1.63294

Mus musculus procollagen, type IV, alpha 3 (Col4a3), mRNA [NM_007734]	NM_007734	-1.15388
serine-arginine repressor protein	NM_177774	1.03875
Mus musculus pentaxin related gene (Ptx3), mRNA [NM_008987]	NM_008987	-1.0403
Mus musculus RIKEN cDNA D030070L09 gene (D030070L09Rik), mRNA [NM_0172625]	NM_0172625	-1.15183
Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, (AK048085)	AK048085	-1.33232
Mus musculus RAB20, member RAS oncogene family (Rab20), mRNA [NM_0111227]	NM_0111227	1.01174
Mus musculus SET domain and mariner transposase fusion gene (Setmar), mRNA [NM_178391]	NM_178391	1.06727
Myomesin family, member 3	AK033394	-1.11716
Olfactory receptor 1344	NM_177061	1.02507
Mus musculus involucrin (Ivl), mRNA [NM_008412]	NM_008412	-1.04704
Mus musculus coiled-coil domain containing 5 (Ccdc5), mRNA [NM_146089]	NM_146089	-1.04875
Mus musculus glutamate receptor, ionotropic, NMDA2B (epsilon 2) (Grin2b), mRNA [NM_008171]	NM_008171	1.10286
Mus musculus DnaJ (Hsp40) homolog, subfamily B, member 10 (Dnajb10), mRNA [NM_020266]	NM_020266	1.09289
RIKEN cDNA 2900042B11 gene	AK013636	-1.12608
PHD finger protein 15	AK129097	-1.03823
Mus musculus RIKEN cDNA 2610034B18 gene (2610034B18Rik), mRNA [NM_027420]	NM_027420	1.04893
Mus musculus mitogen activated protein kinase kinase 2 (Map2k2), mRNA [NM_023138]	NM_023138	1.24142
Mus musculus RIKEN cDNA E430002D04 gene (E430002D04Rik), mRNA [NM_0172909]	NM_0172909	-1.01573
Mus musculus CD52 antigen (Cd52), mRNA [NM_013706]	NM_013706	-1.13239
Mus musculus troponin T3, skeletal, fast (Tnnt3), mRNA [NM_011620]	NM_011620	-1.05466
Mus musculus cDNA sequence BC052040 (BC052040), mRNA [NM_207264]	NM_207264	-1.28633
CCR4-NOT transcription complex, subunit 1	AK034776	-1.06154
DDHD domain containing 1	AK036369	-1.14639
RIKEN cDNA 1700024C24 gene	AK006294	1.05101
RIKEN cDNA 1700040I03 gene	AK006658	-1.18143
Mus musculus killer cell lectin-like receptor subfamily C, member 2 (Klrc2), mRNA [NM_010653]	NM_010653	-1.04499
RIKEN cDNA 9930032O22 gene	NM_177162	1.04979
Mus musculus DNA segment, Chr 12, Wayne State University 95, expressed (D12W095)	NM_198023	-1.00111
Mus musculus APG16 autophagy 16-like (S. cerevisiae) (Apg16l), transcript variant 1 (NM_029846)	NM_029846	-1.05481
Mus musculus coiled-coil-helix-coiled-coil-helix domain containing 4 (Chchd4), mRNA [NM_133928]	NM_133928	-1.65451
RIKEN cDNA 4833446K15 gene	AK019528	-1.6159
Mus musculus olfactory receptor 1056 (Olfr1056), mRNA [NM_147018]	NM_147018	1.01203
Mus musculus Ia-associated invariant chain (Ii), mRNA [NM_010545]	NM_010545	1.11895
Filamin C, gamma (actin binding protein 280)	BC052186	-1.05819
Mus musculus zinc finger protein 330 (Zfp330), mRNA [NM_145600]	NM_145600	-1.15136
Metadherin	AK035302	-1.06513
Mus musculus ribosomal protein 10 (Rpl10), mRNA [NM_052835]	NM_052835	-1.05405
Mus musculus ets variant gene 4 (E1A enhancer binding protein, E1AF) (Etv4), mRNA [NM_008815]	NM_008815	-1.17416
CDNA sequence BC032265	NM_181420	-1.01887
RIKEN cDNA 1700001C19 gene	BC028263	1.02133
Mus musculus dolichyl-di-phosphooligosaccharide-protein glycotransferase (Ddit4), mRNA [NM_007838]	NM_007838	-1.25454
Mus musculus heterogeneous nuclear ribonucleoprotein A/B (Hnrpab), mRNA [NM_010448]	NM_010448	-1.2389
Mus musculus synaptotagmin 15 (Syt15), transcript variant a, mRNA [NM_181529]	NM_181529	1.10159
Mus musculus olfactory receptor 1097 (Olfr1097), mRNA [NM_146843]	NM_146843	1.05588
Mus musculus interferon activated gene 202B (Ifi202b), mRNA [NM_011940]	NM_011940	1.0076
Mus musculus RIKEN cDNA 2310016A09 gene (2310016A09Rik), mRNA [NM_181588]	NM_181588	-1.18117
Low-density lipoprotein receptor-related protein 10	NM_022993	1.22664
Mus musculus CAP, adenylate cyclase-associated protein 1 (yeast) (Cap1), mRNA [NM_007598]	NM_007598	1.1508
Mus musculus olfactory receptor 622 (Olfr622), mRNA [NM_147083]	NM_147083	1.0212
Mus musculus cDNA sequence BC025600 (BC025600), mRNA [NM_146162]	NM_146162	1.14529
Centrosomal protein 1	X79131	1.47973
Unknown		1.01088

RIKEN cDNA 2010111I01 gene	AK044477	1.11795
Src activating and signaling molecule	AK033712	-1.27091
Mus musculus hemogen (Hemgn), mRNA [NM_053149]	NM_053149	1.00527
Mus musculus phospholipase C, beta 1 (Plcb1), mRNA [NM_019677]	NM_019677	1.23978
Mus musculus achaete-scute complex homolog-like 2 (Drosophila) (Ascl2), mRNA [NM_008554]	NM_008554	1.1886
APC_MOUSE Adenomatous polyposis coli protein (APC protein) (mAPC). [Mouse] {Mus musc		-1.37629
Mus musculus neurexophilin 4 (Nxph4), mRNA [NM_183297]	NM_183297	1.16968
Mus musculus ornithine aminotransferase-like 1 (Oat1), mRNA [NM_172478]	NM_172478	1.24399
Mus musculus EST AA792894 (AA792894), mRNA [NM_145568]	NM_145568	-1.31509
Mus musculus RIKEN cDNA 4921513O20 gene (4921513O20Rik), mRNA [NM_025730]	NM_025730	-1.16414
Mus musculus RIKEN cDNA 4933408N02 gene (4933408N02Rik), mRNA [NM_144533]	NM_144533	-1.09767
Mus musculus ATP-binding cassette, sub-family A (ABC1), member 5 (Abca5),	NM_147219	1.14706
Mus musculus transition protein 2 (Tnp2), mRNA [NM_013694]	NM_013694	1.00102
Mus musculus guanosine monophosphate reductase 2 (Gmpr2), mRNA [NM_134075]	NM_134075	-1.13289
Mus musculus olfactory receptor 1362 (Olfr1362), mRNA [NM_146744]	NM_146744	1.05447
Kinesin family member 20A	Y09632	-1.00353
Mus musculus neurexophilin 3 (Nxph3), mRNA [NM_130858]	NM_130858	-1.14179
SEC31-like 1 (S. cerevisiae)	AK007598	1.00266
Mus musculus microtubule associated serine/threonine kinase-like (Mastl), mRNA [NM_025979]	NM_025979	1.08081
AF162707 protein tyrosine phosphatase-like protein PTPLA {Ovis aries}, partial (25%) [TC1059]		1.08002
Hypothetical protein D130094J20	AK013574	1.10058
Deleted in lymphocytic leukemia, 2	AK084358	-1.24654
Mus musculus EGF-like-domain, multiple 9 (Egfl9), transcript variant 2, mRNA [NM_134120]	NM_134120	1.21857
Mus musculus cofilin 2, muscle (Cfl2), mRNA [NM_007688]	NM_007688	-1.07529
Mus musculus RIKEN cDNA 6330444E15 gene (6330444E15Rik), mRNA [NM_00100276]	NM_00100276	-1.10968
Mus musculus solute carrier family 24 (sodium/potassium/calcium exchanger), r	NM_053195	1.15382
Mus musculus synaptophysin (Syp), mRNA [NM_009305]	NM_009305	-1.08698
RIKEN cDNA 1700122O11 gene	AK007241	1.09131
RIKEN cDNA D430033N04 gene	AK052482	-1.07535
Mus musculus HS1 binding protein 3 (Hs1bp3), mRNA [NM_021429]	NM_021429	1.06855
E2F transcription factor 3	BC024125	1.05076
Mus musculus RIKEN cDNA 0610037D15 gene (0610037D15Rik), mRNA [NM_026714]	NM_026714	1.01701
Mus musculus prokineticin 2 (Prok2), mRNA [NM_015768]	NM_015768	1.1134
Mus musculus ash1 (absent, small, or homeotic)-like (Drosophila) (Ash1l), mRNA [NM_138679]	NM_138679	1.04756
Mus musculus RIKEN cDNA 0610009D07 gene (0610009D07Rik), mRNA [NM_025323]	NM_025323	-1.26763
Mus musculus zinc finger protein 35 (Zfp35), mRNA [NM_011755]	NM_011755	-1.05164
Mus musculus similar to FLJ23074 protein (LOC210381), mRNA [XM_136210]	XM_136210	-1.03094
Mus musculus olfactory receptor 1312 (Olfr1312), mRNA [NM_146362]	NM_146362	-1.03673
Mus musculus RIKEN cDNA 4930518F03 gene (4930518F03Rik), mRNA [NM_177191]	NM_177191	-1.13377
Mus musculus RNA guanylyltransferase and 5'-phosphatase (Rngtt), mRNA [NM_011884]	NM_011884	-1.16494
Mus musculus mitochondrial ribosomal protein L32 (Mrpl32), mRNA [NM_029271]	NM_029271	-1.80329
Mus musculus zinc finger protein 90 (Zfp90), mRNA [NM_011764]	NM_011764	-1.21502
Mus musculus RuvB-like protein 2 (Ruvbl2), mRNA [NM_011304]	NM_011304	1.07698
Mus musculus RIKEN cDNA 2810055E05 gene (2810055E05Rik), mRNA [NM_153160]	NM_153160	-1.17991
Mus musculus F-box and WD-40 domain protein 11 (Fbxw11), mRNA [NM_134015]	NM_134015	-1.56108
RIKEN cDNA 3222402P14 gene	AK035077	-1.04221
Mus musculus ubiquitin-activating enzyme E1-like (Ube1l), mRNA [NM_023738]	NM_023738	-1.07955
Mus musculus lin 7 homolog c (C. elegans) (Lin7c), mRNA [NM_011699]	NM_011699	-1.92918
Mus musculus leucine-rich repeat LGI family, member 2 (Lgi2), mRNA [NM_144945]	NM_144945	1.05281
Mus musculus E74-like factor 4 (ets domain transcription factor) (Elf4), mRNA [NM_019680]	NM_019680	1.06576
Stromal interaction molecule 2	BC043455	-1.41187
Mus musculus RIKEN cDNA 1700006D24 gene (1700006D24Rik), mRNA [NM_027026]	NM_027026	1.0584

Mus musculus ELOVL family member 6, elongation of long chain fatty acids (ye:	NM_130450	-1.05742
Mus musculus zinc finger protein 94 (Zfp94), mRNA [NM_009568]	NM_009568	1.03225
RIKEN cDNA 1700094D03 gene	BC048560	-1.0957
Ubiquitin-like 1 (sentrin) activating enzyme E1A	AK087556	1.07256
Mus musculus vomeronasal 1 receptor, C17 (V1rc17), mRNA [NM_134172]	NM_134172	1.02292
Mus musculus ubiquitin protein ligase E3C (Ube3c), mRNA [NM_133907]	NM_133907	-1.33128
Mus musculus RIKEN cDNA 2610040E16 gene (2610040E16Rik), mRNA [NM_	NM_024194	-1.50509
RIKEN cDNA 1700063H04 gene	AK006869	1.0649
Androgen-induced proliferation inhibitor	AK122414	-1.26037
Mus musculus RIKEN cDNA 6820416H06 gene (6820416H06Rik), mRNA [NM_	NM_198322	-1.40143
Mus musculus zinc finger protein 322a (Zfp322a), mRNA [NM_172586]	NM_172586	-1.10367
Amino carboxymuconate semialdehyde decarboxylase	AB071419	1.02452
Unknown		-1.03255
Kinesin family member 5A	BC028563	1.0771
Mus musculus retinoid X receptor alpha (Rxra), mRNA [NM_011305]	NM_011305	1.10174
Mus musculus ADP-ribosylation factor GTPase activating protein 1 (Arfgap1), m	NM_145760	1.09237
Mus musculus a disintegrin and metalloprotease domain 21 (Adam21), mRNA [I	NM_020330	1.06429
Mus musculus syntrophin, basic 1 (Sntb1), mRNA [NM_016667]	NM_016667	1.13841
Mus musculus caseinolytic protease, ATP-dependent, proteolytic subunit homol	NM_017393	-1.28114
Trinucleotide repeat containing 6a	AK014218	-1.14632
Mus musculus cDNA sequence BC023296 (BC023296), mRNA [NM_153545]	NM_153545	1.15285
Mus musculus kin of IRRE like 2 (Drosophila) (Kirrel2), mRNA [NM_172898]	NM_172898	-1.07602
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:	AK015205	-1.02388
Mus musculus inner mitochondrial membrane peptidase 2-like (S. cerevisiae) (I	NM_053122	-1.16846
Mus musculus TPA regulated locus (Tparl), mRNA [NM_011626]	NM_011626	-1.13703
DNA segment, human D4S114	NM_053078	-1.26564
Mus musculus leucine rich repeat transmembrane neuronal 4 (Lrrtm4), mRNA [I	NM_178731	1
CD8 antigen, alpha chain	BC030679	-1.00331
Mus musculus RIKEN cDNA 9530098N22 gene (9530098N22Rik), mRNA [NM_	NM_178786	1.02826
Mus musculus expressed sequence AW319487 (AW319487), mRNA [NM_0540	NM_054085	1.06688
RIKEN cDNA 4933425B07 gene	AK016907	1.07586
Mus musculus DNA segment, Chr 2, ERATO Doi 391, expressed (D2Ertd391e),	NM_145528	1.15816
Mus musculus RIKEN cDNA 8030491N06 gene (8030491N06Rik), mRNA [XM_	XM_355968	1.01744
RIKEN cDNA C130058G22 gene	AK048416	-1.19319
Mus musculus eukaryotic translation initiation factor 3, subunit 1 alpha (Eif3s1),	NM_144545	-1.66287
Mus musculus RIKEN cDNA 2700084L22 gene (2700084L22Rik), mRNA [NM_	(NM_026024	-1.33932
glucocorticoid induced gene 1	NM_133218	-1.37611
Mus musculus 5',3'-nucleotidase, cytosolic (Nt5c), mRNA [NM_015807]	NM_015807	-1.23895
Mus musculus ras homolog gene family, member V (Rhov), mRNA [NM_14553	(NM_145530	-1.02444
Mus musculus RIKEN cDNA 1500001B10 gene (1500001B10Rik), mRNA [NM_	NM_198410	1.02922
Mus musculus vomeronasal 1 receptor, B4 (V1rb4), mRNA [NM_053227]	NM_053227	1.09113
Rho GTPase-activating protein	AK036860	1
RIKEN cDNA 9330186A19 gene	AK086708	1.0598
Mus musculus suppressor of cytokine signaling 6 (Socs6), mRNA [NM_018821]	NM_018821	-1.05686
Mus musculus melanoma cell adhesion molecule (Mcam), mRNA [NM_023061]	NM_023061	-1.11473
Ubiquitin protein ligase E3 component n-recognin 2	BC031403	-1.23306
expressed sequence C78212	NM_198176	1.02728
Mus musculus RIKEN cDNA 1110011K10 gene (1110011K10Rik), mRNA [NM_	NM_170777	-1.07118
Mus musculus adult male epididymis cDNA, RIKEN full-length enriched library,	AK079007	1.00827
Mus musculus anti-Mullerian hormone (Amh), mRNA [NM_007445]	NM_007445	1.18764
Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 3C (Ppp1r3c	NM_016854	1.07487
Mus musculus transmembrane protein 15 (Tmem15), mRNA [NM_177648]	NM_177648	-1.1105

Mus musculus fibroblast growth factor 2 (Fgf2), mRNA [NM_008006]	NM_008006	1.01494
Unknown		-1.0205
RIKEN cDNA A330066M24 gene	AK086812	-1.11342
Mus musculus RIKEN cDNA D930020E02 gene (D930020E02Rik), mRNA [NM_173420]	NM_173420	1.04872
RIKEN cDNA D230044M03 gene	AK018698	1.08172
DNA segment, Chr 8, ERATO Doi 362, expressed	AK018636	-1.11391
Mus musculus lactamase, beta (Lactb), mRNA [NM_030717]	NM_030717	-1.0696
Carboxypeptidase N, polypeptide 2	BC025836	1.0866
Mus musculus RIKEN cDNA B230378H13 gene (B230378H13Rik), transcript variant 1, mRNA [NM_177089]	NM_177089	-1.03821
Mus musculus coatomer protein complex, subunit beta 2 (beta prime) (Copb2), mRNA [NM_015827]	NM_015827	-1.17015
Mus musculus transmembrane 4 superfamily member 1 (Tm4sf1), mRNA [NM_008536]	NM_008536	-1.36918
Mus musculus RIKEN cDNA 1500004A08 gene (1500004A08Rik), mRNA [NM_178149]	NM_178149	1.02537
Mus musculus serine/threonine kinase 19 (Stk19), mRNA [NM_019442]	NM_019442	1.00804
Mus musculus mitogen-activated protein kinase kinase kinase 3 (Map4k3), mRNA [XM_128800]	XM_128800	1.11599
Mus musculus olfactory receptor 961 (Olfr961), mRNA [NM_146504]	NM_146504	1.01598
Mus musculus prolactin-like protein E (Prlpe), mRNA [NM_008930]	NM_008930	1.13878
Mus musculus hook homolog 2 (Drosophila) (Hook2), mRNA [NM_133255]	NM_133255	1.10485
RIKEN cDNA A730069N07 gene	AK043205	1.04937
Mus musculus ADP-ribosylation factor-like 1 (Arl1), mRNA [NM_025859]	NM_025859	-2.01507
Mus musculus CD209b antigen (Cd209b), mRNA [NM_026972]	NM_026972	1.0377
RIKEN cDNA 4930519L02 gene	AK015845	1.04561
Mus musculus PDZ binding kinase (Pbk), mRNA [NM_023209]	NM_023209	-1.19073
Mus musculus ras homolog gene family, member E (Rhoe), mRNA [NM_028810]	NM_028810	-1.1821
HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1	AK033922	-1.03275
Mus musculus retinoblastoma binding protein 4 (Rbbp4), mRNA [NM_009030]	NM_009030	-1.51049
TBC1 domain family, member 22a	NM_145476	-1.20324
Mus musculus olfactory receptor 642 (Olfr642), mRNA [NM_146329]	NM_146329	1.04777
Mus musculus RIKEN cDNA 6030423D04 gene (6030423D04Rik), mRNA [NM_153137]	NM_153137	1.01564
Mus musculus adult male brain cDNA, RIKEN full-length enriched library, clone: AK014401	AK014401	1.08297
RIKEN cDNA 4930504E06 gene	AK015696	1.06395
Mus musculus protocadherin beta 19 (Pcdhb19), mRNA [NM_053144]	NM_053144	-1.00677
Mus musculus G elongation factor (Gfm), mRNA [NM_138591]	NM_138591	1.11529
Mus musculus olfactory receptor 993 (Olfr993), mRNA [NM_146435]	NM_146435	-1.10877
RIKEN cDNA 1200008N06 gene	AK004654	1.10218
Mus musculus mutS homolog 3 (E. coli) (Msh3), mRNA [NM_010829]	NM_010829	-1.00029
Mus musculus ribonuclease/angiogenin inhibitor 1 (Rnh1), mRNA [NM_145135]	NM_145135	1.09511
BAI1-associated protein 2-like 1	NM_025833	1.10228
Mus musculus artemin (Artn), mRNA [NM_009711]	NM_009711	1.01073
Mus musculus RIKEN cDNA 4930478A21 gene (4930478A21Rik), mRNA [NM_183109]	NM_183109	-1.13183
Solute carrier family 7 (cationic amino acid transporter, y+ system), member 1	BC051230	-1.20059
serologically defined colon cancer antigen 33 like	BC028776	-1.02171
Mus musculus seven in absentia 2 (Siah2), mRNA [NM_009174]	NM_009174	-1.08576
Phosphofurin acidic cluster sorting protein 1-like	BC043302	-1.03729
Sno, strawberry notch homolog 1 (Drosophila)	BC023136	-1.37633
Mus musculus progesterone receptor membrane component 1 (Pgrmc1), mRNA [NM_016783]	NM_016783	-1.44556
Mus musculus RIKEN cDNA 2410080H04 gene (2410080H04Rik), mRNA [NM_172522]	NM_172522	1.05269
Mus musculus mortality factor 4 like 2 (Morf4l2), mRNA [NM_019768]	NM_019768	-1.35458
Mus musculus steroid 5 alpha-reductase 2-like 2 (Srd5a2l2), mRNA [NM_153801]	NM_153801	1.07684
Mus musculus APG4 (ATG4) autophagy-related homolog D (S. cerevisiae) (Apg4A), mRNA [NM_153583]	NM_153583	1.12799
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK016162	AK016162	1.22419
RIKEN cDNA 2210010N04 gene	BC004058	1.03331
Mus musculus adult male olfactory brain cDNA, RIKEN full-length enriched library, clone: AK032255	AK032255	1.10539

Mus musculus calcium homeostasis endoplasmic reticulum protein (Cherp), mR	NM_138585	-1.23137
Mus musculus polyamine oxidase (Paox), mRNA [NM_153783]	NM_153783	1.01732
Mus musculus villin (Vil), mRNA [NM_009509]	NM_009509	-1.04343
Olfactory receptor 1355	AF042360	1.05685
RIKEN cDNA 1700057K13 gene	AK006825	1
RNA binding motif protein 22	AK045116	1.01755
Mus musculus phospholipase A1 member A (Pla1a), mRNA [NM_134102]	NM_134102	1.00771
Mus musculus RIKEN cDNA 5730409F24 gene (5730409F24Rik), mRNA [NM_	NM_181403	1.14599
RIKEN cDNA A330104H05 gene	NM_029972	1.2843
SH2 domain containing 4A	AK008803	-1.35116
Mus musculus RIKEN cDNA 3110001A13 gene (3110001A13Rik), mRNA [NM_	NM_025626	1.02925
Mus musculus 5-hydroxytryptamine (serotonin) receptor 5A (Htr5a), mRNA [NM_	NM_008314	1.06804
RIKEN cDNA 1700020A23 gene	AK006141	1.03002
Mus musculus abhydrolase domain containing 2 (Abhd2), mRNA [NM_018811]	NM_018811	1.02387
Mus musculus RIKEN cDNA 2700059L22 gene (2700059L22Rik), mRNA [NM_	(NM_028300	1.09501
RIKEN cDNA C130058G22 gene	AK028576	-1.03197
CDNA sequence BC022765	AK087566	1.06803
Mus musculus proline-rich protein MP5 (Prpmp5), mRNA [NM_019628]	NM_019628	1.1163
LIM homeobox protein 8	D49658	1.0208
Mus musculus GPI anchor attachment protein 1 (Gpaa1), mRNA [NM_010331]	NM_010331	1.03613
AGENCOURT_10616779 NIH_MGC_169 Mus musculus cDNA clone IMAGE:6:BU962533	BU962533	1.09737
Mus musculus phosphatidylinositol 3-kinase catalytic delta polypeptide (Pik3cd),	NM_008840	1.00691
Regulator of G-protein signaling 5	BC005656	-1.00155
Mus musculus serine palmitoyltransferase, long chain base subunit 2 (Sptlc2), n	NM_011479	-1.33076
Mus musculus adenosine deaminase (Ada), mRNA [NM_007398]	NM_007398	1.07304
Mus musculus T-cell acute lymphocytic leukemia 1 (Tal1), mRNA [NM_011527]	NM_011527	-1.27689
Mus musculus tumor necrosis factor (ligand) superfamily, member 12 (Tnfsf12),	NM_011614	-1.38591
Unknown		-1.038
Mus musculus BCL2-associated athanogene 4 (Bag4), mRNA [NM_026121]	NM_026121	-1.15647
Mus musculus exosome component 9 (Exosc9), mRNA [NM_019393]	NM_019393	-1.68973
ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminic	NM_016973	-1.00389
Mus musculus hydroxyacid oxidase (glycolate oxidase) 3 (Hao3), mRNA [NM_0	NM_019545	-1.02615
Mus musculus cadherin EGF LAG seven-pass G-type receptor 3 (Celsr3), mRN	NM_080437	1.10528
Fibroblast growth factor inducible 14	U42386	-1.26832
Mus musculus arachidonate 15-lipoxygenase, second type (Alox15b), mRNA [N	NM_009661	1.12416
Mus musculus RIKEN cDNA D830019K17 gene (D830019K17Rik), mRNA [NM_	NM_145521	1.09885
Mus musculus RIKEN cDNA 4930455F23 gene (4930455F23Rik), mRNA [NM_	NM_029115	-1.14812
Mus musculus RIKEN cDNA 2810022L02 gene (2810022L02Rik), mRNA [NM_	NM_144882	-1.10477
RIKEN cDNA 5430432P15 gene	AK047094	-1.06115
Ankyrin 3, epithelial	AK017568	1
RIKEN cDNA 2510012J08 gene	AK010963	1.00067
Mus musculus RIKEN cDNA 2510010F15 gene (2510010F15Rik), mRNA [NM_	NM_026454	-1.3121
Mus musculus chloride channel calcium activated 2 (Clca2), mRNA [NM_03060	NM_030601	-1.04059
Nuclear receptor binding factor 2	NM_025307	-1.09562
Mus musculus cyclin M4 (Cnm4), mRNA [NM_033570]	NM_033570	1.06098
Mus musculus fibronectin type III domain containing 5 (Fn/dc5), mRNA [NM_027	NM_027402	1.1366
Mus musculus RIKEN cDNA 2610204M08 gene (2610204M08Rik), mRNA [NM_	NM_198411	1.15058
Myelin basic protein expression factor 2, repressor	U13262	-1.05543
Mus musculus RIKEN cDNA 1810073M12 gene (1810073M12Rik), mRNA [NM_	NM_181400	-1.39996
Additional sex combs like 1 (Drosophila)	AK079284	-1.1016
Mus musculus cDNA sequence BC021381 (BC021381), mRNA [NM_145382]	NM_145382	-1.19385
hypothetical protein MGC6357	NM_144791	1.01235

Mus musculus discs, large homolog 4 (<i>Drosophila</i>) (<i>Dlgh4</i>), mRNA [NM_007864]	NM_007864	1.01413
Mus musculus olfactory receptor 649 (<i>Olf649</i>), mRNA [NM_147055]	NM_147055	1.08883
Mus musculus RIKEN cDNA 1700020D05 gene (1700020D05Rik), mRNA [NM_023781]	NM_023781	-1.15254
Mus musculus Kv channel-interacting protein 1 (<i>Kcnip1</i>), mRNA [NM_027398]	NM_027398	1.07588
Mus musculus serine (or cysteine) proteinase inhibitor, clade B, member 5 (<i>SerpinB5</i>), mRNA [NM_009257]	NM_009257	-1.13448
Mus musculus olfactory receptor 167 (<i>Olf167</i>), mRNA [NM_146935]	NM_146935	1.05327
Mus musculus olfactory receptor 1179 (<i>Olf1179</i>), mRNA [NM_146917]	NM_146917	1.00609
Mus musculus sulfotransferase family 1A, phenol-preferring, member 1 (<i>Sult1a1</i>), mRNA [NM_133670]	NM_133670	-1.15833
Mus musculus RIKEN cDNA 2600002E23 gene (2600002E23Rik), mRNA [NM_026441]	NM_026441	1.12124
Mus musculus titin immunoglobulin domain protein (<i>myotilin</i>) (<i>Ttid</i>), mRNA [NM_021484]	NM_021484	-1.28931
Mus musculus Williams-Beuren syndrome chromosome region 17 homolog (<i>hurler</i>) (<i>Hurler</i>), mRNA [NM_145218]	NM_145218	1.07464
Mus musculus olfactory receptor 632 (<i>Olf632</i>), mRNA [NM_147119]	NM_147119	-1.00124
RIKEN cDNA 4930500O05 gene	AK029713	1.00857
RIKEN cDNA D330004O07 gene	NM_010481	-1.17196
Mus musculus olfactory receptor 654 (<i>Olf654</i>), mRNA [NM_146379]	NM_146379	1.06042
Mus musculus RIKEN cDNA 5730470L24 gene (5730470L24Rik), mRNA	NM_028311	-1.2952
Mus musculus MMS19 (<i>MET18 S. cerevisiae</i>)-like (<i>Mms19l</i>), mRNA [NM_028152]	NM_028152	-1.01314
Death effector domain-containing DNA binding protein 2	AK010701	-1.04568
Mus musculus Shwachman-Bodian-Diamond syndrome homolog (human) (<i>Sbd</i>), mRNA [NM_023248]	NM_023248	-1.47082
RIKEN cDNA 9930013L23 gene	AK036809	1.03569
Zinc finger protein 2	NM_009550	-1.1265
similar to Dual specificity protein phosphatase 13 (Testis- and skeletal-muscle-specific) (<i>Dpp13</i>), mRNA [NM_023233]	AK075665	1.03442
Mus musculus tripartite motif protein 13 (<i>Trim13</i>), mRNA [NM_023233]	NM_023233	-1.60706
Mus musculus cDNA sequence BC027127 (<i>BC027127</i>), mRNA [NM_145967]	NM_145967	-1.09781
Mus musculus copine I (<i>Cpne1</i>), transcript variant 1, mRNA [NM_170588]	NM_170588	-1.02981
Mus musculus DnaJ (<i>Hsp40</i>) homolog, subfamily A, member 4 (<i>Dnaja4</i>), mRNA [NM_021422]	NM_021422	1.05093
RIKEN cDNA 1700026J12 gene	AK006389	1.07995
Mus musculus ring finger protein 110 (<i>Rnf110</i>), mRNA [NM_009545]	NM_009545	1.00469
Mus musculus cytochrome c oxidase subunit IV isoform 2 (<i>Cox4i2</i>), mRNA [NM_053091]	NM_053091	1.0237
Mus musculus kelch-like 4 (<i>Drosophila</i>) (<i>Klhl4</i>), mRNA [NM_172781]	NM_172781	1.05352
Mus musculus peptidylprolyl isomerase F (<i>cyclophilin F</i>) (<i>Ppif</i>), mRNA [NM_134084]	NM_134084	-1.04688
Mus musculus thymic stromal-derived lymphopoietin, receptor (<i>Tslpr</i>), mRNA [NM_016715]	NM_016715	-1.11775
Mus musculus glial cells missing homolog 2 (<i>Drosophila</i>) (<i>Gcm2</i>), mRNA [NM_008104]	NM_008104	-1.20414
RIKEN cDNA 1700034J04 gene	AK006597	1.04642
Mus musculus pyruvate dehydrogenase E1 alpha 1 (<i>Pdha1</i>), mRNA [NM_008810]	NM_008810	-1.16102
Mus musculus COMM domain containing 5 (<i>Comm5</i>), mRNA [NM_025536]	NM_025536	-1.08776
Mus musculus cysteine-rich secretory protein 3 (<i>Crisp3</i>), mRNA [NM_009639]	NM_009639	-1.18423
Mus musculus ubiquitin-activating enzyme E1, Chr Y 1 (<i>Ube1y1</i>), mRNA [NM_011667]	NM_011667	1.20716
Mus musculus RIKEN cDNA D130059P03 gene (D130059P03Rik), mRNA [NM_177185]	NM_177185	-1.0364
RIKEN cDNA A230106M15 gene	AK039192	-1.14705
0 day neonate eyeball cDNA, RIKEN full-length enriched library, clone:E130307	AK053770	1
RIKEN cDNA 3110001I20 gene	BC052489	-1.61953
Mus musculus p21 (<i>CDKN1A</i>)-activated kinase 7 (<i>Pak7</i>), mRNA [NM_172858]	NM_172858	-1.09497
BCL2-antagonist/killer 1	AK002723	-1.00786
Mus musculus RIKEN cDNA 9930013L23 gene (9930013L23Rik), mRNA [NM_030728]	NM_030728	1.03626
Mus musculus ubiquitin protein ligase E3 component n-recogin 1 (<i>Ubr1</i>), mRNA [NM_009461]	NM_009461	-1.0685
Angiomotin	AK129277	-1.0417
Mus musculus U2 small nuclear RNA auxiliary factor 1-like 4 (<i>U2af1l4</i>), mRNA [NM_170760]	NM_170760	-1.16269
Mus musculus tyrosine kinase 2 (<i>Tyk2</i>), mRNA [NM_018793]	NM_018793	1.21441
Mus musculus casein kinase II, alpha 2, polypeptide (<i>Csnk2a2</i>), mRNA [NM_009974]	NM_009974	1.05278
Mus musculus RIKEN cDNA A930018B01 gene (A930018B01Rik), mRNA [NM_024216]	NM_024216	-1.37199
Mus musculus RIKEN cDNA 4922502D21 gene (4922502D21Rik), mRNA [NM_199034]	NM_199034	1.06446

Protein tyrosine phosphatase, receptor type, Q	AK041657	1.04601
Mus musculus radical fringe gene homolog (Drosophila) (Rfng), mRNA [NM_009053]		1.12546
Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 13 (Nudt13), mRNA [NM_026341]		-1.1799
Mus musculus olfactory receptor 39 (Olfr39), mRNA [NM_146825]	NM_146825	-1.01517
Mus musculus BH3 interacting (with BCL2 family) domain, apoptosis agonist (Birc5), mRNA [NM_007545]		1.18699
Mus musculus RIKEN cDNA A430056A10 gene (A430056A10Rik), mRNA [NM_133871]		-1.50572
Mus musculus diptheria toxin resistance protein required for diphthamide biosynthesis (DtrA), mRNA [NM_026344]		-1.21145
RIKEN cDNA 2310042E16 gene	AK009750	1.14754
RIKEN cDNA 9430016H08 gene	BC024945	-1.09625
Mus musculus vacuolar protein sorting 54 (yeast) (Vps54), mRNA [NM_139061]	NM_139061	-1.37758
Mus musculus RIKEN cDNA 310002P13 gene (310002P13Rik), mRNA [NM_134009]		1.16964
Mus musculus expressed sequence AI448472 (AI448472), mRNA [NM_178728]	NM_178728	1.04288
RIKEN cDNA 9130206N08 gene	AK122438	1.13108
Mus musculus SHP2 interacting transmembrane adaptor (Sit), mRNA [NM_019436]	NM_019436	1.20218
RIKEN cDNA 4930404A10 gene	AK015073	-1.02478
Mus musculus RIKEN cDNA A830059I20 gene (A830059I20Rik), mRNA [NM_021427]	NM_021427	1.03355
Mus musculus microtubule associated serine/threonine kinase 2 (Mast2), mRNA [NM_008641]	NM_008641	-1.19579
Mus musculus interleukin 13 receptor, alpha 2 (Il13ra2), mRNA [NM_008356]	NM_008356	-1.01705
Mus musculus renin binding protein (Renbp), mRNA [NM_023132]	NM_023132	1.09073
Mus musculus ribosomal protein L35a (Rpl35a), mRNA [NM_021338]	NM_021338	-1.58436
Mus musculus olfactory receptor 806 (Olfr806), mRNA [NM_146553]	NM_146553	-1.02258
Mus musculus expressed sequence AW123087 (AW123087), mRNA [XM_130985]	XM_130985	-1.21741
Mus musculus abl-interactor 1 (Abi1), mRNA [NM_007380]	NM_007380	-1.45298
Mus musculus zinc finger, MYND domain containing 10 (Zmynd10), mRNA [NM_053253]	NM_053253	-1.0649
Mus musculus carbonic anhydrase 5b, mitochondrial (Car5b), mRNA [NM_181315]	NM_181315	1.01214
Down syndrome cell adhesion molecule-like 1	AF351196	1.31907
Mus musculus myeloblastosis oncogene-like 1 (Mybl1), mRNA [NM_008651]	NM_008651	-1.06438
CDNA clone MGC:99918 IMAGE:30533246, complete cds	BC070439	1.0088
Mus musculus sclerostin domain containing 1 (Sostdc1), mRNA [NM_025312]	NM_025312	1.08128
RIKEN cDNA 6230401O10 gene	BC022736	-1.14522
Leucine rich repeat and fibronectin type III domain containing 5	AK083920	-1.00087
Mucin 2	AK008656	1.06372
Mus musculus galanin receptor 3 (Galr3), mRNA [NM_015738]	NM_015738	1.21708
Mus musculus 9.5 days embryo parthenogenote cDNA, RIKEN full-length enriched library clone 310002P13, complete cds	AK044932	1.04453
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 8	BC012416	-1.39352
Mus musculus FUS interacting protein (serine-arginine rich) 1 (Fusip1), mRNA [NM_010178]	NM_010178	1.00039
Mus musculus RIKEN cDNA 2410080P20 gene (2410080P20Rik), mRNA [NM_026464]		-1.03922
Growth hormone releasing hormone receptor	L07379	1.00228
Mus musculus olfactory receptor 1087 (Olfr1087), mRNA [NM_146846]	NM_146846	1.07356
Mus musculus RIKEN cDNA 0610006I08 gene (0610006I08Rik), mRNA [NM_025791]		-1.20694
CDNA sequence BC013491	BC013491	-1.14537
Mus musculus RIKEN cDNA 2310042G06 gene (2310042G06Rik), mRNA [NM_025531]		-1.25424
Mus musculus glutathione S-transferase, mu 2 (Gstm2), mRNA [NM_008183]	NM_008183	-1.14043
Mus musculus K+ voltage-gated channel, subfamily S, 1 (Kcns1), mRNA [NM_008435]		-1.116
Mus musculus nel-like 2 homolog (chicken) (Nell2), mRNA [NM_016743]	NM_016743	1.10111
Mus musculus cytotoxic T lymphocyte-associated protein 2 alpha (Ctla2a), mRNA [NM_007796]	NM_007796	-1.39665
DNA segment, Chr 11, ERATO Doi 686, expressed	AK044263	1.15222
Mus musculus mesenchyme homeobox 1 (Meox1), mRNA [NM_010791]	NM_010791	-1.00866
Mus musculus olfactory receptor 1512 (Olfr1512), mRNA [NM_146432]	NM_146432	1.0349
Mus musculus kelch-like 13 (Drosophila) (Klhl13), mRNA [NM_026167]	NM_026167	-1.11503
Mus musculus RIKEN cDNA 2010109I03 gene (2010109I03Rik), mRNA [NM_025929]		-1.06061
UI-M-AO1-aem-f-02-0-UI.s1 NIH_BMAP_MPG_N Mus musculus cDNA clone UIA1842957		-1.13839

Mus musculus peptidyl arginine deiminase, type I (Padi1), mRNA [NM_011059]	NM_011059	1.22883
Mus musculus RIKEN cDNA 4930589M24 gene (4930589M24Rik), mRNA [XM_XM_125625]		1.01802
Mus musculus capping protein (actin filament) muscle Z-line, alpha 3 (Capza3),	NM_007605	-1.03537
Mus musculus carnitine acetyltransferase (Crat), mRNA [NM_007760]	NM_007760	1.13869
Mus musculus ADP-ribosylation factor-like 6 interacting protein 4 (Arl6ip4), mRNA	NM_144509	1.08644
Mus musculus microtubule-associated protein 2 (Mtap2), mRNA [NM_008632]	NM_008632	1.11781
S-adenosylmethionine decarboxylase 1	Z14986	-1.47779
Mus musculus gamma-aminobutyric acid (GABA-A) receptor, subunit alpha 5 (GABA _A NR1)	NM_176942	1.0257
Mus musculus mutL homolog 1 (E. coli) (Mlh1), mRNA [NM_026810]	NM_026810	-1.05421
Mus musculus expressed sequence AW557805 (AW557805), mRNA [NM_144858]	NM_144858	-1.00625
Mus musculus FGFR1 oncogene partner 2 (Fgfr1op2), mRNA [NM_026218]	NM_026218	-1.48567
Mus musculus mitochondrial translational release factor 1 (Mtrf1), mRNA [NM_145960]	NM_145960	-1.14246
Mus musculus RIKEN cDNA 1110030K22 gene (1110030K22Rik), mRNA [NM_024230]	NM_024230	1.06255
Glutamyl-tRNA synthase (glutamine-hydrolyzing)-like 1	AK012351	-1.02703
Mus musculus UDP-glucose pyrophosphorylase 2 (Ugp2), mRNA [NM_139297]	NM_139297	-1.0609
Mus musculus syntaxin 1 b-like (Stx1b), mRNA [NM_019560]	NM_019560	1.33645
Mus musculus G protein-coupled receptor 87 (Gpr87), mRNA [NM_032399]	NM_032399	-1.01346
RIKEN cDNA 1200009B18 gene	AK030045	-1.47489
2 days pregnant adult female oviduct cDNA, RIKEN full-length enriched library,	AK087644	-1.13324
Mus musculus TBC1D12: TBC1 domain family, member 12 (Tbc1d12), mRNA [NM_145952]	NM_145952	-1.0145
Mus musculus RNA terminal phosphate cyclase domain 1 (Rtcd1), mRNA [NM_025517]	NM_025517	-1.30089
Mus musculus RIKEN cDNA D030041N04 gene (D030041N04Rik), mRNA [NM_173012]	NM_173012	-1.06007
Mus musculus RIKEN cDNA 5031400M07 gene (5031400M07Rik), mRNA [NM_020586]	NM_020586	-1.32999
Mus musculus tolloid-like (Tll), mRNA [NM_009390]	NM_009390	1.00849
Mus musculus solute carrier family 23 (nucleobase transporters), member 3 (Slc23a3)	NM_194333	1.16042
Mus musculus Moloney leukemia virus 10-like 1 (Mov10l1), mRNA [NM_031260]	NM_031260	1.0666
Mus musculus RIKEN cDNA 5830443C21 gene (5830443C21Rik), mRNA [NM_029508]	NM_029508	-1.11368
Mus musculus zinc finger protein 637 (Zfp637), mRNA [NM_177684]	NM_177684	-1.00987
RIKEN cDNA 1300013F15 gene	AK004989	-1.21656
Expressed sequence AU040829	AK053220	-1.01454
Mus musculus leucine rich repeat protein 2, neuronal (Lrrn2), mRNA [NM_010732]	NM_010732	1.19655
Mus musculus G protein-coupled receptor 1 (Gpr1), mRNA [NM_146250]	NM_146250	1.05078
CDNA sequence BC051080	BC040762	1.03207
Mus musculus nucleolar protein 3 (apoptosis repressor with CARD domain) (Noct)	NM_030152	-1.06408
Mus musculus glycoprotein m6b (Gpm6b), mRNA [NM_023122]	NM_023122	-1.55254
Mus musculus cholinergic receptor, muscarinic 4 (Chrm4), mRNA [NM_007699]	NM_007699	1.08453
RIKEN cDNA 1500011B03 gene	AK018264	-1.07421
Keratin associated protein 8-1	D86423	1.08074
Establishment of cohesion 1 homolog 2 (S. cerevisiae)	NM_028039	-1.0194
Mus musculus RIKEN cDNA 1700012H17 gene (1700012H17Rik), mRNA [NM_173426]	NM_173426	1.22449
Mus musculus RIKEN cDNA C630028F04 gene (C630028F04Rik), mRNA [NM_172885]	NM_172885	1.03322
Mus musculus vanin 1 (Vnn1), mRNA [NM_011704]	NM_011704	-1.0777
Mus musculus cyclin-dependent kinase inhibitor 1C (P57) (Cdkn1c), mRNA [NM_009876]	NM_009876	1.28849
Mus musculus sema domain, immunoglobulin domain (Ig), transmembrane domain 5 (Sema5)	NM_013658	1.05998
Tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator)	BC022125	-1.04451
Mus musculus RIKEN cDNA 2510025F08 gene (2510025F08Rik), mRNA [NM_025993]	NM_025993	1.01969
Mus musculus RIKEN cDNA 1810060J02 gene (1810060J02Rik), mRNA [NM_025911]	NM_025911	-1.05065
Mus musculus insulin-like growth factor 2, binding protein 3 (Igf2bp3), mRNA [NM_023670]	NM_023670	1.14137
MRNA similar to lipoyltransferase (cDNA clone MGC:28431 IMAGE:4038179), cDNA	AK048005	1.00867
Mus musculus phosphodiesterase 6H, cGMP-specific, cone, gamma (Pde6h), mRNA [NM_023898]	NM_023898	1.01629
Mus musculus signal peptide, CUB domain, EGF-like 2 (Scube2), mRNA [NM_020052]	NM_020052	1.17171
Mus musculus RIKEN cDNA B230380D07 gene (B230380D07Rik), mRNA [NM_172772]	NM_172772	-1.16935

RIKEN cDNA 9630033F20 gene	AK044461	-1.01599
Lysosomal membrane glycoprotein 2	J05287	-1.51354
Ninein	AK014241	-1.52901
Mus musculus hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)	NM_173371	-1.00293
Mus musculus olfactory receptor 985 (Olf985), mRNA [NM_146855]	NM_146855	-1.00686
Mus musculus 3-hydroxy-3-methylglutaryl-Coenzyme A lyase (Hmgcl), mRNA [NM_008254]	NM_008254	1.06346
Mus musculus TRAF-interacting protein (Traip), mRNA [NM_011634]	NM_011634	-1.2883
Mus musculus polo-like kinase 2 (Drosophila) (Plk2), mRNA [NM_152804]	NM_152804	-1.42008
Thioredoxin domain containing 10	NM_198295	-1.49763
Mus musculus signal transducer and activator of transcription 5B (Stat5b), mRNA [NM_011489]	NM_011489	1.04056
Mus musculus RIKEN cDNA 2310065K24 gene (2310065K24Rik), mRNA [NM_028221]	NM_028221	-1.10616
Mus musculus RIKEN cDNA 2610207I16 gene (2610207I16Rik), mRNA [NM_024255]	NM_024255	-1.46934
Mus musculus mitochondrial ribosomal protein L9 (Mrpl9), mRNA [NM_030116]	NM_030116	1.07057
Mus musculus cDNA sequence BC002286 (BC002286), mRNA [NM_024479]	NM_024479	-1.0051
Mus musculus interleukin 16 (Il16), mRNA [NM_010551]	NM_010551	-1.04904
Mus musculus guanine nucleotide binding protein (G protein), beta polypeptide	NM_023120	-1.04302
Mus musculus structure specific recognition protein 1 (Ssrp1), mRNA [NM_182990]	NM_182990	-1.03481
Mus musculus quaking (Qk), mRNA [NM_021881]	NM_021881	-1.46556
hypothetical protein B930041G04	NM_177750	-1.03193
EST AI449595	AK005100	-1.26932
Mus musculus RIKEN cDNA 9430031J16 gene (9430031J16Rik), mRNA [NM_172849]	NM_172849	-1.01671
MOB1, Mps One Binder kinase activator-like 1B (yeast)	BC011285	-1.61527
Mus musculus NCK-associated protein 1 (Nckap1), mRNA [NM_016965]	NM_016965	-1.67246
Mus musculus nervous system polycomb 1 (Nspc1), mRNA [NM_197992]	NM_197992	-1.00643
Mus musculus RIKEN cDNA 6330416L11 gene (6330416L11Rik), mRNA [NM_027518]	NM_027518	-1.03168
Mus musculus ADP-ribosylhydrolase like 1 (Adprh1), mRNA [NM_172750]	NM_172750	1.12722
Mus musculus CD7 antigen (Cd7), mRNA [NM_009854]	NM_009854	1.02498
RIKEN cDNA 1600002K03 gene	AK005397	-1.14583
Mus musculus apelin (Apln), mRNA [NM_013912]	NM_013912	1.01187
Mus musculus Rab40b, member RAS oncogene family (Rab40b), mRNA [NM_139147]	NM_139147	-1.11609
Mus musculus olfactory receptor 51 (Olf51), mRNA [NM_146909]	NM_146909	-1.02328
RIKEN cDNA 9430069I07 gene	AK020480	1.00546
Mus musculus RIKEN cDNA 0610040B21 gene (0610040B21Rik), mRNA [NM_025334]	NM_025334	-1.1446
Mus musculus expressed sequence AW538196 (AW538196), mRNA [NM_133952]	NM_133952	-1.16672
Mus musculus basic leucine zipper transcription factor, ATF-like (Batf), mRNA [NM_016767]	NM_016767	-1.21008
RIKEN cDNA 1700001O02 gene	AK007168	-1.00036
Mus musculus caspase 12 (Casp12), mRNA [NM_009808]	NM_009808	-1.05025
Mus musculus hypothetical protein A830048P05 (A830048P05), mRNA [NM_172917]	NM_172917	1.02359
Mus musculus selenocysteine lyase (Scly), mRNA [NM_016717]	NM_016717	-1.07081
Mus musculus lymphotoxin B (Ltb), mRNA [NM_008518]	NM_008518	-1.7513
Mus musculus interleukin 23 receptor (Il23r), mRNA [NM_144548]	NM_144548	1.05169
Mus musculus mitogen activated protein kinase binding protein 1 (Mapkbp1), mRNA [NM_011941]	NM_011941	1.11733
Mus musculus BCL2/adenovirus E1B 19kD interacting protein like (Bnip1), mRNA [NM_134253]	NM_134253	-1.03217
Importin 9	AF273673	-1.09995
Cd63 antigen	NM_007653	-1.21867
Mus musculus expressed sequence AI839562 (AI839562), mRNA [NM_019914]	NM_019914	-1.27838
Mus musculus syndecan binding protein (syntenin) 2 (Sdcbp2), mRNA [NM_145535]	NM_145535	-1.10198
Mus musculus F-box only protein 34 (Fbxo34), mRNA [NM_030236]	NM_030236	1.0239
Mus musculus RIKEN cDNA 2610103M17 gene (2610103M17Rik), mRNA [NM_145822]	NM_145822	-1.03993
Mus musculus melanocortin 2 receptor (Mc2r), mRNA [NM_008560]	NM_008560	1.01685
Mus musculus keratin complex 2, basic, gene 6b (Krt2-6b), mRNA [NM_010669]	NM_010669	1.00688
Mus musculus RIKEN cDNA 2010001O09 gene (2010001O09Rik), mRNA [NM_025909]	NM_025909	-1.04137

Mus musculus tetratricopeptide repeat domain 12 (Ttc12), mRNA [NM_172770]	NM_172770	1.00685
Mus musculus large tumor suppressor 2 (Lats2), mRNA [NM_015771]	NM_015771	-1.02688
Mus musculus ATPase, class I, type 8B, member 1 (Atp8b1), mRNA [NM_0010148]	NM_0010148	1
Mus musculus histone deacetylase 1 (Hdac1), mRNA [NM_008228]	NM_008228	-1.06271
Mus musculus RIKEN cDNA 2410001H17 gene (2410001H17Rik), mRNA [NM_025889]	NM_025889	-1.08134
Mus musculus DNA segment, Chr 2, Brigham & Women's Genetics 0891 expressed	NM_026797	1.12631
Mus musculus low density lipoprotein-related protein 12 (Lrp12), mRNA [NM_022332]	NM_022332	-1.13595
RIKEN cDNA 2810453L12 gene	AK013338	1.05374
Mus musculus RIKEN cDNA 2810429K17 gene (2810429K17Rik), mRNA [NM_029847]	NM_029847	-1.08115
Mus musculus mitochondrial ribosomal protein L28 (Mrpl28), nuclear gene encoding	NM_024227	-1.25805
WD repeat domain 39	NM_025296	-1.34496
Zinc finger protein 294	BC027795	-1.18525
Mus musculus ankyrin repeat and SOCS box-containing protein 8 (Asb8), mRNA [NM_030121]	NM_030121	-1.36392
Mus musculus adult male hypothalamus cDNA, RIKEN full-length enriched library	AK038685	-1.12016
Mus musculus ash2 (absent, small, or homeotic)-like (Drosophila) (Ash2l), mRNA [NM_011791]	NM_011791	-1.33511
Mus musculus TRIO and F-actin binding protein (Triobp), mRNA [NM_138579]	NM_138579	1.15882
Mus musculus solute carrier family 29 (nucleoside transporters), member 1 (Slc29a1)	NM_022880	-1.04622
Chromodomain helicase DNA binding protein 3	AK045449	-1.10428
Mus musculus peroxisomal membrane protein 4 (Pxm4), mRNA [NM_021534]	NM_021534	1.09674
Mus musculus lysosomal-associated membrane protein 3 (Lamp3), mRNA [NM_177356]	NM_177356	-1.0771
Mus musculus solute carrier family 31, member 2 (Slc31a2), mRNA [NM_025286]	NM_025286	-1.11269
Mus musculus small proline-rich protein 1A (Spr1a), mRNA [NM_009264]	NM_009264	1.15825
RIKEN cDNA 6230424H07 gene	BC042726	-1.30257
Mus musculus RIKEN cDNA 4932418K24 gene (4932418K24Rik), mRNA [NM_172799]	NM_172799	1.02406
Mus musculus solute carrier family 2, member 12 (Slc2a12), mRNA [NM_178934]	NM_178934	1.01322
Mus musculus solute carrier family 9 (sodium/hydrogen exchanger), member 1 (Slc9a1)	NM_016981	1.0681
Mus musculus keratin complex 2, basic, gene 20 (Krt2-20), mRNA [NM_053249]	NM_053249	1.02047
Abhydrolase domain containing 1	BC013505	-1.02194
Yip1 interacting factor homolog B (S. cerevisiae)	AK020444	1.03059
Mus musculus RIKEN cDNA 2610012O22 gene (2610012O22Rik), mRNA [NM_023536]	NM_023536	-1.03262
Mus musculus tuberous sclerosis 2 (Tsc2), mRNA [NM_011647]	NM_011647	-1.12577
Mus musculus peroxisomal biogenesis factor 12 (Pex12), mRNA [NM_134025]	NM_134025	-1.26665
Mus musculus T-cell leukemia, homeobox 2 (Tlx2), mRNA [NM_009392]	NM_009392	1.3312
RIKEN cDNA 1810058N05 gene	BC030891	-1.02897
ELK4, member of ETS oncogene family	NM_007923	1.22597
RIKEN cDNA 1700009P03 gene	BC011531	1.00968
Preproenkephalin 1	BC049766	-1.034
UDP-GalNAc:betaGlcNAc beta 1,3-galactosaminyltransferase, polypeptide 2	NM_178640	-1.14338
Mus musculus mRNA similar to complement component 1, s subcomponent (CD55)	BC027183	1.13824
CDC42 effector protein (Rho GTPase binding) 2	AK083004	1.0396
Mus musculus contactin associated protein 4 (Cntnap4), mRNA [NM_130457]	NM_130457	1.03703
Mus musculus RIKEN cDNA 6820449I09 gene (6820449I09Rik), mRNA [NM_177128]	NM_177128	-1.11851
Mus musculus 4 days neonate male adipose cDNA, RIKEN full-length enriched library	AK046642	1.08459
RIKEN cDNA D130005J21 gene	AK082029	-1.12874
Mus musculus vomeronasal 1 receptor, D14 (V1rd14), mRNA [NM_030736]	NM_030736	1.09942
uo68e01.x1 NCI_CGAP_Mam1 Mus musculus cDNA clone IMAGE:2647704 3' : AW212856	AW212856	1.06131
Golgi-specific brefeldin A-resistance factor 1	AK039570	1.01184
Mus musculus olfactory receptor 918 (Olfr918), mRNA [NM_146375]	NM_146375	1.165
RIKEN cDNA C030017G13 gene	BC021408	1.05696
cocaine and amphetamine regulated transcript	NM_013732	1.12474
RIKEN cDNA C430042M11 gene	AK002608	-1.00623
Mus musculus MAD homolog 1 (Drosophila) (Smad1), mRNA [NM_008539]	NM_008539	1.1025

Mus musculus cadherin EGF LAG seven-pass G-type receptor 1 (Celsr1), mRNA [NM_009886]		-1.29784
Mus musculus RIKEN cDNA E430012M05 gene (E430012M05Rik), mRNA [NM_177310]		1.50705
Mus musculus RIKEN cDNA 2610034E13 gene (2610034E13Rik), mRNA [NM_029365]		1.19088
PHD finger protein 14	AK003209	-1.44745
Mus musculus DNA segment, Chr 12, ERATO Doi 771, expressed (D12Erd771)	NM_028262	-1.19933
Mus musculus dynein, axonemal, heavy chain 11 (Dnahc11), mRNA [NM_010060]	NM_010060	-1.01413
Peptidase (mitochondrial processing) beta	AK013995	-1.35676
Mus musculus RIKEN cDNA 2410004N11 gene (2410004N11Rik), mRNA [NM_025888]		1.01566
RIKEN cDNA A830010M20 gene	AK043587	-1.15847
Mus musculus histocompatibility 2, Q region locus 10 (H2-Q10), mRNA [NM_01010391]	NM_01010391	1.1329
Mus musculus adult male cerebellum cDNA, RIKEN full-length enriched library, similar to mastermind-like 2; mastermind (Drosophila)-like 2	AK005289	1.02255
	AK040022	1.08463
Mus musculus solute carrier family 25 (mitochondrial carrier, adenine nucleotide)	NM_007451	-1.20273
Mus musculus similar to hypothetical protein FLJ23584 (LOC328573), mRNA [XM_283292]	XM_283292	-1.109
Mus musculus vomeronasal 1 receptor, A5 (V1ra5), mRNA [NM_053220]	NM_053220	1.01727
Mus musculus transition protein 1 (Tnp1), mRNA [NM_009407]	NM_009407	1.02017
Synaptotagmin 7	AK080792	-1.02489
Mus musculus chaperonin subunit 5 (epsilon) (Cct5), mRNA [NM_007637]	NM_007637	-1.3673
Mus musculus suppressor of Ty 4 homolog (S. cerevisiae) (Supt4h), mRNA [NM_009296]	NM_009296	-1.10883
Mus musculus nucleolar and spindle associated protein 1 (Nusap1), mRNA [NM_133851]	NM_133851	-1.20696
Mus musculus sterol-C5-desaturase (fungal ERG3, delta-5-desaturase) homolog	NM_172769	-1.18448
Mus musculus PWWP domain containing 1 (Pwwp1), mRNA [NM_008232]	NM_008232	-1.18649
Methionine sulfoxide reductase B3	AK052456	1.09311
Mus musculus brachyury 2 (T2), mRNA [NM_013682]	NM_013682	1.0842
HECT domain containing 1	AK077185	-1.23922
Mus musculus expressed sequence AU041483 (AU041483), mRNA [NM_134109]	NM_134109	-1.46625
Mus musculus N-acetyl galactosaminidase, alpha (Naga), mRNA [NM_008669]	NM_008669	1.0522
Mus musculus transducin-like enhancer of split 3, homolog of Drosophila E(spl)	NM_009389	1.12867
Mus musculus RIKEN cDNA 2010001C14 gene (2010001C14Rik), mRNA [XM_129951]	XM_129951	1.01187
RIKEN cDNA 1700031F05 gene	AK006578	-1.00139
RIKEN cDNA 1700061I17 gene	AK006854	1.16333
Mus musculus dipeptidylpeptidase 7 (Dpp7), mRNA [NM_031843]	NM_031843	-1.01399
Mus musculus sortilin-related VPS10 domain containing receptor 2 (Sorcs2), mRNA [NM_030889]	NM_030889	1.01978
Mus musculus dipeptidase 3 (Dpep3), mRNA [NM_027960]	NM_027960	-1.0884
Mus musculus regenerating islet-derived 1 (Reg1), mRNA [NM_009042]	NM_009042	1.00353
Genetic suppressor element 1	AK006008	1.09217
Mus musculus acyl-Coenzyme A dehydrogenase, short/branched chain (Acad8)	NM_025826	-1.34566
Mus musculus protease inhibitor 15 (Pi15), mRNA [NM_053191]	NM_053191	1
RIKEN cDNA 1810041L15 gene	BC062953	1.06881
Bromodomain adjacent to zinc finger domain, 2A	AK122243	1.15891
Mus musculus olfactory receptor 798 (Olf798), mRNA [NM_146556]	NM_146556	1.08031
RIKEN cDNA E430016F16 gene	BC006942	-1.02747
Mus musculus stabilin 2 (Stab2), mRNA [NM_138673]	NM_138673	1.07345
Mus musculus calcium channel, voltage-dependent, alpha 2/delta subunit 2 (Ca _v 2.2)	NM_020263	1.16006
Mus musculus heat shock factor 1 (Hsf1), mRNA [NM_008296]	NM_008296	1.15305
Mus musculus Rho GTPase activating protein 9 (Arhgap9), mRNA [NM_146011]	NM_146011	1.07833
Mus musculus RIKEN cDNA 1700009P17 gene (1700009P17Rik), mRNA [NM_029301]	NM_029301	-1.03667
Mus musculus baculoviral IAP repeat-containing 4 (Birc4), mRNA [NM_009688]	NM_009688	1.09259
Mus musculus phosphoserine phosphatase (Psp), mRNA [NM_133900]	NM_133900	-1.29172
Mus musculus RAD18 homolog (S. cerevisiae) (Rad18), mRNA [NM_021385]	NM_021385	-1.61314
Mus musculus zinc finger protein 369 (Zfp369), mRNA [NM_178364]	NM_178364	-1.17358
F-box only protein 24	AK016870	-1.06865

Unknown		1.06473
Mus musculus ubiquitin specific protease 47 (Usp47), mRNA [NM_133758]	NM_133758	-1.10692
Mus musculus zinc finger protein 598 (Zfp598), mRNA [NM_183149]	NM_183149	1.08552
Mus musculus RIKEN cDNA 2010208K18 gene (2010208K18Rik), mRNA [NM_ NM_028095]		-1.41669
Mus musculus RIKEN cDNA 4930470G04 gene (4930470G04Rik), mRNA [XM_XM_129331 BC030378 solute carrier family 38, member 1 {Mus musculus}, complete [TC955750]		1.34593
		-1.10554
Mus musculus DNA segment, Chr 9, ERATO Doi 660, expressed (D9Ert660e), NM_175380		1.07582
Mus musculus guanine nucleotide binding protein 13, gamma (Gng13), mRNA [NM_022422		1.14067
Mus musculus N-acetyltransferase 5 (ARD1 homolog, S. cerevisiae) (Nat5), mR NM_026425		-1.44417
Mus musculus vacuolar protein sorting 26 (yeast) (Vps26), mRNA [NM_133672]NM_133672		-1.33758
Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 14B (Ppp1r1NM_008889		1.11723
Mus musculus BCL2-like 12 (proline rich) (Bcl2l12), mRNA [NM_029410]	NM_029410	1.06797
Mus musculus diacylglycerol kinase, theta (Dgkq), mRNA [NM_199011]	NM_199011	1.36579
Mus musculus actin-like 7a (Actl7a), mRNA [NM_009611]	NM_009611	1.10325
Mus musculus 4 days neonate male adipose cDNA, RIKEN full-length enriched AK080891		-1.01
Chromodomain helicase DNA binding protein 5	AK015949	1.00353
Mus musculus RIKEN cDNA 3321402G02 gene (3321402G02Rik), mRNA [NM_ NM_028716		1.04103
Solute carrier family 25 (mitochondrial carrier), member 18	AK005250	1.06821
Mus musculus RIKEN cDNA 2600003E23 gene (2600003E23Rik), mRNA [NM_ NM_027373		1.04779
Mus musculus chloride channel calcium activated 4 (Clca4), mRNA [NM_13914:NM_139148		1.03658
Mus musculus ATPase, H ⁺ transporting, lysosomal accessory protein 1 (Atp6ap NM_018794		1.13908
Purine-rich element binding protein G	AF479672	-1.06347
Mus musculus inositol 1,4,5-trisphosphate 3-kinase C (Itpkc), mRNA [NM_1815:NM_181593		-1.08692
Expressed sequence AI324046	AK037822	-1.068
HECT, UBA and WWE domain containing 1	AB093227	-1.59586
Heterogeneous nuclear ribonucleoprotein U-like 1	BC027844	-1.26858
RIKEN cDNA 1110008L16 gene	AK031144	1.10347
Mus musculus cyclin G1 (Ccng1), mRNA [NM_009831]	NM_009831	-1.12263
Mus musculus procollagen, type II, alpha 1 (Col2a1), mRNA [NM_031163]	NM_031163	-1.14116
Mus musculus RIKEN cDNA 3930401K13 gene (3930401K13Rik), mRNA [NM_ NM_028720		-1.28737
Unknown		-2.13018
Mus musculus olfactory receptor 930 (Olfr930), mRNA [NM_146272]	NM_146272	1.0866
Trinucleotide repeat containing 6C	AK122529	-1.05759
Mus musculus RIKEN cDNA 5830426I05 gene (5830426I05Rik), mRNA [NM_1:NM_133762		-1.00737
Mus musculus protein kinase, cAMP dependent regulatory, type II alpha (Prkar2 NM_008924		1.04779
Mus musculus tumor necrosis factor receptor superfamily, member 4 (Tnfrsf4), r NM_011659		1.03658
Mus musculus placentae and embryos oncofetal gene (Pem), mRNA [NM_0088 NM_008818		-1.06618
Mus musculus matrin 3 (Matr3), mRNA [NM_010771]	NM_010771	-1.21932
Mus musculus alpha-2-HS-glycoprotein (Ahsg), mRNA [NM_013465]	NM_013465	1.0796
Hyperpolarization-activated, cyclic nucleotide-gated K ⁺ 4	AF064874	1.02474
WD repeat domain 18	AK082695	1.06901
Mus musculus RIKEN cDNA B230120H23 gene (B230120H23Rik), mRNA [NM_ NM_023057		-1.09419
Mus musculus RNA binding motif, single stranded interacting protein 1 (Rbms1) NM_020296		-1.13866
Mus musculus actin, alpha, cardiac (Actc1), mRNA [NM_009608]	NM_009608	1.18892
RIKEN cDNA 1190002H09 gene	AK004450	-1.25922
Mus musculus RIKEN cDNA 3110038L01 gene (3110038L01Rik), mRNA [NM_(NM_026524		-1.24023
Melanoma associated antigen (mutated) 1	NM_023431	1.12319
Mus musculus puromycin-sensitive aminopeptidase (Psa), mRNA [NM_008942]NM_008942		1.18696
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK016503		1.0569
RIKEN cDNA 1810007M14 gene	AK007365	-1.48065
Mus musculus RIKEN cDNA 1810022C23 gene (1810022C23Rik), mRNA [NM_ NM_026947		-1.44904
Mus musculus RIKEN cDNA 2810405K02 gene (2810405K02Rik), mRNA [NM_ NM_025582		-1.15199

Mus musculus colony stimulating factor 3 (granulocyte) (Csf3), mRNA [NM_009:NM_009971		1.08178
RIKEN cDNA 4930431B09 gene	AK015259	1.37422
Mus musculus gulonolactone (L-) oxidase (Gulo), mRNA [NM_178747]	NM_178747	1.02834
Mus musculus ring finger protein 14 (Rnf14), mRNA [NM_020012]	NM_020012	-1.33067
Mus musculus protein phosphatase 1, catalytic subunit, alpha isoform (Ppp1ca), NM_031868		1.12637
Mus musculus RNA polymerase II associated protein 1 (Rpap1), mRNA [NM_17NM_177294		-1.01544
Mus musculus heterogeneous nuclear ribonucleoprotein L (Hnrpl), mRNA [NM_ NM_177301		1.19146
Mus musculus cDNA sequence BC024806 (BC024806), mRNA [NM_172291]	NM_172291	-1.01629
Mus musculus aldehyde dehydrogenase 8 family, member A1 (Aldh8a1), mRNA NM_178713		1.15117
Mus musculus basic transcription factor 3 (Btf3), mRNA [NM_145455]	NM_145455	-1.44511
Mus musculus similar to pyruvate dehydrogenase phosphatase (LOC381511), n XM_355470		-1.1035
Retinol dehydrogenase 12	AK039233	1.41477
Mus musculus bystin-like (Bysl), mRNA [NM_016859]	NM_016859	1.08454
Mus musculus 10 days embryo whole body cDNA, RIKEN full-length enriched lit AK012034		-1.28319
Mus musculus aryl hydrocarbon receptor nuclear translocator (Arnt), mRNA [NM NM_009709		1.09645
Mus musculus early endosome antigen 1 (Eea1), mRNA [NM_001001932]	NM_00100193	1.28196
steroid receptor-interacting SNF2 domain protein	NM_030730	1.07483
RIKEN cDNA 8430416G17 gene	AK018420	-1.04338
Mus musculus RIKEN cDNA 1700010C24 gene (1700010C24Rik), mRNA [NM_ NM_027401		1.055
Mus musculus RIKEN cDNA 2610311I19 gene (2610311I19Rik), mRNA [NM_0:NM_023311		-1.28919
Mus musculus sirtuin 6 (silent mating type information regulation 2, homolog) 6 (NM_181586		-1.03743
Mus musculus RIKEN cDNA 1600015I10 gene (1600015I10Rik), mRNA [NM_0:NM_027205		1.08789
Potassium channel, subfamily K, member 16	AK014626	1.02012
Mus musculus cDNA sequence AJ430384 (AJ430384), mRNA [NM_130880]	NM_130880	1.03025
DNA segment, Chr 5, Wayne State University 178, expressed	AK046608	-1.06597
Mus musculus RIKEN cDNA 6330580J24 gene (6330580J24Rik), mRNA [NM_ (NM_026378		-1.04048
Mus musculus tissue inhibitor of metalloproteinase 3 (Timp3), mRNA [NM_0115 NM_011595		-1.05499
Acetyl-Coenzyme A carboxylase beta	BC022940	-1.11586
RIKEN cDNA 4933407H18 gene	BC061483	1.1085
Mus musculus adult male diencephalon cDNA, RIKEN full-length enriched librar AK034516		1.08511
Mus musculus T-box 21 (Tbx21), mRNA [NM_019507]	NM_019507	-1.0406
Mus musculus DAZ associated protein 2 (Dazap2), mRNA [NM_011873]	NM_011873	-1.4011
Mus musculus synuclein, beta (Snca), mRNA [NM_033610]	NM_033610	1.078
Mus musculus RIKEN cDNA 4833439L19 gene (4833439L19Rik), mRNA [NM_ NM_133797		-1.36891
Mus musculus FXD domain-containing ion transport regulator 4 (Fxd4), mRN. NM_033648		-1.00438
Mus musculus intercellular adhesion molecule 5, telencephalin (Icam5), mRNA | NM_008319		1.15707
Mus musculus spermine synthase (Sms), mRNA [NM_009214]	NM_009214	-1.47762
F-box and leucine-rich repeat protein 17	BC058120	1.0726
CDNA sequence BC019755	AK042259	-1.01197
Mus musculus RIKEN cDNA 2010005A06 gene (2010005A06Rik), mRNA [NM_ NM_029357		1.15571
Solute carrier family 25 (mitochondrial oxodicarboxylate carrier), member 21	AK044945	-1.00814
Mus musculus RIKEN cDNA 2310026E23 gene (2310026E23Rik), mRNA [NM_ NM_026279		-1.23321
Mus musculus protocadherin beta 21 (Pcdhb21), mRNA [NM_053146]	NM_053146	1.01009
Mus musculus RIKEN cDNA 2700038E08 gene (2700038E08Rik), mRNA [NM_ NM_197993		-1.16351
Mus musculus olfactory receptor 690 (Olfr690), mRNA [NM_020290]	NM_020290	-1.01362
Mus musculus RIKEN cDNA 6330579B17 gene (6330579B17Rik), mRNA [NM_ NM_026494		-1.25744
Calcium modulating ligand	NM_007596	-1.21428
Mus musculus RIKEN cDNA 9130413I22 gene (9130413I22Rik), mRNA [NM_0:NM_026242		-1.32431
Mus musculus cholinergic receptor, nicotinic, beta polypeptide 1 (muscle) (Chrn NM_009601		1.08166
CDNA sequence BC025458	AK048084	1.05915
Mus musculus RIKEN cDNA 1700124P09 gene (1700124P09Rik), mRNA [XM_ XM_356195		-1.02801
RIKEN cDNA A930008A22 gene	AK122465	-1.11261

Mus musculus zinc finger and BTB domain containing 5 (Zbtb5), mRNA [NM_17NM_173399		1.20428
Mus musculus RIKEN cDNA A230058J24 gene (A230058J24Rik), mRNA [NM_ NM_172889		1.14651
Mus musculus enoyl Coenzyme A hydratase domain containing 3 (Echdc3), mRNM_024208		-1.01933
Deoxyribonuclease II alpha	AF045741	-1.35848
Mus musculus RIKEN cDNA D430028G21 gene (D430028G21Rik), mRNA [NM NM_144888		-1.00383
Mus musculus 5-hydroxytryptamine (serotonin) receptor 1F (Htr1f), mRNA [NM_ NM_008310		-1.00262
RIKEN cDNA B930012P20 gene	AB093228	-1.14112
Mus musculus ectonucleoside triphosphate diphosphohydrolase 4 (Entpd4), mRNM_026174		1.03702
Mus musculus isocitrate dehydrogenase 3 (NAD+) alpha (Idh3a), mRNA [NM_0 NM_029573		-1.2107
Similar to immunoglobulin heavy chain	AB069910	1.06101
Mus musculus tumor necrosis factor receptor superfamily, member 19-like (Tnfr:NM_177073		-1.01146
Mus musculus cyclin-dependent kinase inhibitor 2A (Cdkn2a), mRNA [NM_009εNM_009877		1.16009
Mus musculus RIKEN cDNA 3110003A22 gene (3110003A22Rik), mRNA [NM_ NM_026534		-1.29631
Mus musculus expressed sequence AI481100 (AI481100), mRNA [NM_019440 NM_019440		-1.27143
Mus musculus G protein-coupled receptor 151 (Gpr151), mRNA [NM_181543] NM_181543		-1.01892
Expressed sequence AI447928	AK122392	-1.44
Mus musculus nuclear receptor coactivator 6 (Ncoa6), mRNA [NM_019825] NM_019825		-1.36881
RIKEN cDNA D530014G21 gene	AK021287	-1.08577
RAS p21 protein activator 4	BC057460	1.0692
Mus musculus alkaline phosphatase 2, liver (Akp2), mRNA [NM_007431] NM_007431		-1.27469
RIKEN cDNA 2210403K04 gene	AK008813	-1.20848
Mus musculus RIKEN cDNA 1810009K13 gene (1810009K13Rik), mRNA [NM_ NM_025462		-1.1005
Mus musculus breast carcinoma amplified sequence 3 (Bcas3), mRNA [NM_13NM_138681		1.11468
Mus musculus protocadherin beta 8 (Pcdhb8), mRNA [NM_053133] NM_053133		1.05918
RIKEN cDNA 1810044A24 gene	AK013485	-1.03436
Mus musculus RIKEN cDNA F630043A04 gene (F630043A04Rik), mRNA [NM_ NM_198605		-1.00051
Mus musculus BarH-like 1 (Drosophila) (Barh1), mRNA [NM_019446] NM_019446		1.33882
Mus musculus RIKEN cDNA 1700022A21 gene (1700022A21Rik), mRNA [XM_ XM_131911		1.1151
RIKEN cDNA 1700030B21 gene	BC049681	1.04475
Mus musculus endoglin (Eng), mRNA [NM_007932] NM_007932		1.22748
RasGEF domain family, member 1B	AK037397	-1.10496
Zinc finger, FYVE domain containing 9	AK081320	1.07725
Mus musculus glucosidase 1 (Gcs1), mRNA [NM_020619] NM_020619		1.20799
Mus musculus ceroid-lipofuscinosis, neuronal 2 (Cln2), mRNA [NM_009906] NM_009906		1.09554
Mus musculus mannose receptor, C type 1 (Mrc1), mRNA [NM_008625] NM_008625		-1.49839
Mus musculus 2 days neonate thymus thymic cells cDNA, RIKEN full-length enr AK088611		1.00661
Mus musculus DNA segment, Chr 17, Wayne State University 104, expressed (INM_080837		-1.01292
Adenylate cyclase 1	AF053980	-1.16437
Mus musculus RIKEN cDNA 5730589L02 gene (5730589L02Rik), mRNA [NM_ (NM_029934		1.08453
Mus musculus MAP kinase-activated protein kinase 2 (Mapkapk2), mRNA [NM_ NM_008551		1.00169
Mus musculus general transcription factor II I repeat domain-containing 1 (Gtf2ir NM_020331		-1.17297
Mus musculus origin recognition complex, subunit 4-like (S. cerevisiae) (Orc4l), NM_011958		-1.42221
Nuclear protein in the AT region	AK033012	1.07157
Mus musculus activating transcription factor 7 interacting protein (Atf7ip), mRNA NM_019426		-1.03634
Kinesin family member C5C	AF221104	1.04677
Mus musculus cystatin 8 (cystatin-related epididymal spermatogenic) (Cst8), mFNM_009978		-1.3603
Mus musculus ubiquitin specific protease 9, X chromosome (Usp9x), mRNA [NM NM_009481		-1.23724
Mus musculus molybdenum cofactor synthesis 1 (Mocs1), transcript variant 1, r NM_020042		1.06301
Mus musculus lipopolysaccharide binding protein (Lbp), mRNA [NM_008489] NM_008489		1.06701
hypothetical protein B930054O08	AK081017	-1.07188
Mus musculus RIKEN cDNA 4930511I11 gene (4930511I11Rik), mRNA [NM_0: NM_026290		1.04694
Mus musculus RIKEN cDNA 2310035K24 gene (2310035K24Rik), mRNA [NM_ NM_027129		1.15075

Mus musculus apolipoprotein B editing complex 3 (Apobec3), mRNA [NM_0302	NM_030255	-1.22401
RIKEN cDNA 2310002B06 gene	AK009084	-1.24809
RIKEN cDNA 2900083I11 gene	AK013812	-1.03512
Mus musculus serine/threonine kinase 39, STE20/SPS1 homolog (yeast) (Stk39)	NM_016866	1.133
Mus musculus RIKEN cDNA 2610027C15 gene (2610027C15Rik), mRNA [NM_	NM_172145	1.16961
Mus musculus RIKEN cDNA 1700019N19 gene (1700019N19Rik), mRNA [NM_	NM_026208	1.05899
Mus musculus UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase	NM_028189	-1.09581
Mus musculus methionyl aminopeptidase 1 (Metap1), mRNA [NM_175224]	NM_175224	-1.13395
Mus musculus histidine decarboxylase (Hdc), mRNA [NM_008230]	NM_008230	-1.04006
Mus musculus cytochrome P450, family 2, subfamily j, polypeptide 5 (Cyp2j5), n	NM_010007	-1.2259
Mus musculus RIKEN cDNA 5430428G01 gene (5430428G01Rik), mRNA [NM_	NM_024178	-1.29887
Mus musculus microfibrillar-associated protein 4 (Mfap4), mRNA [NM_029568]	NM_029568	-1.73089
Mus musculus monoamine oxidase B (Maob), mRNA [NM_172778]	NM_172778	-1.50695
Mus musculus amyloid beta (A4) precursor-like protein 1 (Aplp1), mRNA [NM_0	NM_007467	-1.01145
Protamine 1	AK018980	1.13716
Mus musculus ADP-ribosylation factor-like 6 interacting protein 6 (Arl6ip6), mRN	NM_022989	-1.23161
Mus musculus signal sequence receptor, gamma (Ssr3), mRNA [NM_026155]	NM_026155	-1.38798
RIKEN cDNA 4932434E15 gene	AK016545	1.17193
Mus musculus StAR-related lipid transfer (START) domain containing 4 (Stard4)	NM_133774	-1.09376
Mus musculus cDNA sequence BC035537 (BC035537), mRNA [NM_153535]	NM_153535	-1.25162
Mus musculus RIKEN cDNA 5730511K23 gene (5730511K23Rik), mRNA [NM_	NM_019458	1.01514
Jun dimerization protein 2	NM_030887	1.16671
ATPase, Ca ⁺⁺ transporting, plasma membrane 1	BC049262	1.01529
hypothetical protein 6430546I09	NM_172805	1.10631
Mus musculus RIKEN cDNA C230096C10 gene (C230096C10Rik), mRNA [NM_	NM_146157	-1.02914
similar to spermatogenic cell-specific gene 2	AK041589	1.0289
Protein phosphatase 1, regulatory (inhibitor) subunit 9A	BC053748	1.04554
RIKEN cDNA C530009C10 gene	AK016794	1.10078
G protein-coupled receptor 116	AK034382	-1.39812
Mus musculus myeloid differentiation primary response gene 116 (Myd116), mRN	NM_008654	1.1093
Pbx/knotted 1 homeobox 2	AK084178	1.12647
Mus musculus natriuretic peptide precursor type C (Nppc), mRNA [NM_010933]	NM_010933	1.02287
RIKEN cDNA 1700034E13 gene	BC048563	1.11488
Mus musculus RIKEN cDNA A930017N06 gene (A930017N06Rik), mRNA [NM_	NM_175522	-1.09169
Mus musculus serine (or cysteine) proteinase inhibitor, clade A, member 6 (Serp	NM_007618	1.03398
Fer-1-like 3, myoferlin (C. elegans)	BC025649	-1.53596
Mus musculus polyribonucleotide nucleotidyltransferase 1 (Pnpt1), mRNA [NM_	NM_027869	-1.22984
Phosphoribosyl pyrophosphate synthetase-associated protein 1	AK082484	-1.00878
Mus musculus myomesin 1 (Myom1), mRNA [NM_010867]	NM_010867	1.05459
Mus musculus RUN and SH3 domain containing 1 (Rusc1), mRNA [NM_028188]	NM_028188	1.17377
Lactalbumin, alpha	NM_010679	1.06539
Mus musculus heparan sulfate 2-O-sulfotransferase 1 (Hs2st1), mRNA [NM_01	NM_011828	-1.32135
Mus musculus RIKEN cDNA 1110006I15 gene (1110006I15Rik), mRNA [NM_1	NM_134142	-1.17797
RIKEN cDNA 2310079G19 gene	AK010217	1.09072
Mus musculus epidermal growth factor receptor pathway substrate 15 (Eps15),	NM_007943	-1.19854
Mus musculus sialophorin (Spn), mRNA [NM_009259]	NM_009259	1.16326
RIKEN cDNA 5830453K13 gene	AK018007	-1.00062
Mus musculus RIKEN cDNA 8030466O12 gene (8030466O12Rik), mRNA [NM_	NM_146203	-1.10238
PX domain containing serine/threonine kinase	NM_145458	-1.11572
Glutathione S-transferase, mu 7	AK002213	1.11567
Centaurin, delta 3	AK053122	1.11325
Mus musculus PHD finger protein 17 (Phf17), mRNA [NM_172303]	NM_172303	-1.17888

Mus musculus RIKEN cDNA C730040N12 gene (C730040N12Rik), mRNA [NM_177920]		1.00732
Expressed sequence AI851790	BC027082	1.05811
Mus musculus synaptotagmin XIV (Syt14), mRNA [NM_181546]	NM_181546	1.24476
Mus musculus NK6 transcription factor related, locus 2 (Drosophila) (Nkx6-2), mRNA [NM_183248]	NM_183248	1.00038
Mus musculus vomeronasal 1 receptor, E5 (V1re5), mRNA [NM_134194]	NM_134194	1.00618
Mus musculus RIKEN cDNA 2310058A11 gene (2310058A11Rik), mRNA [NM_133993]	NM_133993	-1.06093
Mus musculus cDNA sequence BC013667 (BC013667), mRNA [NM_172266]	NM_172266	1.02754
Mus musculus DNA segment, Chr 15, ERATO Doi 785, expressed (D15Erd785)	NM_025795	-1.23983
Glycogen synthase kinase 3 beta	NM_019827	1.11155
Mus musculus Bcl2-associated athanogene 1 (Bag1), mRNA [NM_009736]	NM_009736	-1.41601
Mus musculus B-cell CLL/lymphoma 7C (Bcl7c), mRNA [NM_009746]	NM_009746	1.27271
RIKEN cDNA 2310044G17 gene	AK076398	-1.22638
Cell growth regulator with EF hand domain 1	BC023116	-1.15087
Mus musculus zinc finger protein 52 (Zfp52), mRNA [NM_144515]	NM_144515	-1.3711
AHNAK nucleoprotein (desmoyokin)	BC021494	1.18692
Mus musculus nuclear receptor interacting protein 3 (Nrip3), mRNA [NM_020610]	NM_020610	1.05199
Mus musculus Mblk1-related protein-2 (Mlr2), mRNA [NM_172154]	NM_172154	1.07474
Mus musculus serine/threonine kinase 10 (Stk10), mRNA [NM_009288]	NM_009288	1.0574
Zinc finger protein 74	AK049278	1.03146
Mus musculus olfactory receptor 1233 (Olfr1233), mRNA [NM_146972]	NM_146972	1.05436
Mus musculus RIKEN cDNA 2510003E04 gene (2510003E04Rik), mRNA [NM_028197]	NM_028197	-1.03024
Mus musculus lymphotoxin B receptor (Ltbr), mRNA [NM_010736]	NM_010736	-1.21539
RIKEN cDNA 2410193C02 gene	AK079901	-1.37385
Mus musculus olfactory receptor 522 (Olfr522), mRNA [NM_146952]	NM_146952	1.12627
Mus musculus sarcolemma associated protein (Slmap), mRNA [NM_032008]	NM_032008	1.04411
Mus musculus RIKEN cDNA 1700012G19 gene (1700012G19Rik), mRNA [NM_025954]	NM_025954	1.03921
Mus musculus etoposide induced 2.4 mRNA (Ei24), mRNA [NM_007915]	NM_007915	-1.09548
Mus musculus murinoglobulin 2 (Mug2), mRNA [NM_008646]	NM_008646	1.0058
Mus musculus meningioma expressed antigen 6 (coiled-coil proline-rich) (Mgea6)	NM_146034	-1.19639
RIKEN cDNA 2900090M10 gene	AK045799	1.06344
PREDICTED: Mus musculus similar to SETDB2 protein (LOC239122), mRNA	AK089197	1.04582
Mus musculus similar to pyruvate dehydrogenase (LOC212446), mRNA [XM_137016]	XM_137016	-1.07734
Mus musculus ubiquitin-conjugating enzyme E2, J1 (Ube2j1), mRNA [NM_019586]	NM_019586	-1.31629
Coagulation factor IX	M23109	1.11434
Mus musculus calcium channel, voltage-dependent, T type, alpha 1G subunit (CNM_009783)		1.11839
Mus musculus ATP synthase, H+ transporting, mitochondrial F1 complex, delta	NM_025313	1.10301
Mus musculus RIKEN cDNA 2700084L06 gene (2700084L06Rik), mRNA [NM_198164]	NM_198164	-1.2897
Mus musculus angiogenin, ribonuclease A family, member 1 (Ang1), mRNA [NM_007447]	NM_007447	-1.06944
Mus musculus solute carrier family 9 (sodium/hydrogen exchanger), isoform 6 (SLC9A6)	NM_172780	-1.41639
Mus musculus RIKEN cDNA 1110058A15 gene (1110058A15Rik), mRNA [NM_025413]	NM_025413	1.04006
Mus musculus adenosine deaminase, RNA-specific (Adar), mRNA [NM_019655]	NM_019655	1.02131
Mus musculus serine/threonine kinase 11 interacting protein (Stk11ip), mRNA [NM_027886]	NM_027886	1.07351
Unknown		-1.07016
Mus musculus nuclear distribution gene C homolog (Aspergillus) (Nudc), mRNA	NM_010948	1.01612
Mus musculus glyceronephosphate O-acyltransferase (Gnpat), mRNA [NM_010322]	NM_010322	-1.20453
Mus musculus tumor suppressor candidate 2 (Tusc2), mRNA [NM_019742]	NM_019742	-1.11195
Death inducer-obliterator 1	AK129117	-1.09427
Mus musculus transforming growth factor, beta 2 (Tgfb2), mRNA [NM_009367]	NM_009367	1.05459
Sulfatase modifying factor 2	AK076022	-1.03069
Mus musculus NOD-derived CD11c +ve dendritic cells cDNA, RIKEN full-length	AK089219	-1.03112
Mus musculus solute carrier organic anion transporter family, member 5A1 (Slc6a1)	NM_172841	1
TRNA (5-methylaminomethyl-2-thiouridylate)-methyltransferase 1	AK041084	-1.07017

Mus musculus purine-nucleoside phosphorylase (Pnp), mRNA [NM_013632]	NM_013632	-1.24288
Mus musculus, clone IMAGE:4219318, mRNA	BC022654	-1.29721
Mus musculus transient receptor potential cation channel, subfamily C, member NM_019510	NM_019510	-1.39773
Mus musculus RIKEN cDNA 5930405J04 gene (5930405J04Rik), mRNA [NM_198160]	NM_198160	1.06232
Mus musculus ring finger protein 44 (Rnf44), mRNA [NM_134064]	NM_134064	-1.31536
Mus musculus protein phosphatase 1F (PP2C domain containing) (Ppm1f), mRNA [NM_176833]	NM_176833	1.02529
Mus musculus RIKEN cDNA 2310008M14 gene (2310008M14Rik), mRNA [NM_133984]	NM_133984	1.00614
Mus musculus mitogen-activated protein kinase kinase kinase 4 (Map4k4), mRNA [NM_008696]	NM_008696	1.09564
Adiponectin receptor 2	AK046591	1.18444
Mus musculus similar to Protein C20orf116 homolog precursor (LOC381425), mRNA [XM_355387]	XM_355387	1.11073
Mus musculus homeo box B8 (Hoxb8), mRNA [NM_010461]	NM_010461	-1.06584
RIKEN cDNA 1300004G08 gene	AK054549	1.04815
CDNA sequence BC017647	AK082554	1.07875
Mus musculus regulating synaptic membrane exocytosis 2 (Rims2), mRNA [NM_053271]	NM_053271	1.02182
Mus musculus expressed sequence AV312086 (AV312086), mRNA [NM_172633]	NM_172633	1.01998
RIKEN cDNA 4933400F03 gene	AK016591	-1.45845
Mus musculus lectin, galactose binding, soluble 7 (Lgals7), mRNA [NM_008496]	NM_008496	-1.41378
Mus musculus keratin complex 1, acidic, gene 17 (Krt1-17), mRNA [NM_010663]	NM_010663	1.10556
Mus musculus calstyntenin 3 (Clstn3), mRNA [NM_153508]	NM_153508	-1.02351
Mus musculus RIKEN cDNA 9630020G10 gene (9630020G10Rik), mRNA [NM_177137]	NM_177137	-1.0208
Sine oculis-related homeobox 1 homolog (Drosophila)	X80339	1.00125
Mouse U5 small nuclear RNA, clone 2.	M29242	-1.01847
Mus musculus fibroblast growth factor 15 (Fgf15), mRNA [NM_008003]	NM_008003	1.15652
Mus musculus Ena-vasodilator stimulated phosphoprotein (Evl), mRNA [NM_007965]	NM_007965	-1.05333
RIKEN cDNA 4932443J21 gene	AK030128	1.1464
RIKEN cDNA 2310001L23 gene	AK036802	1.05248
Mus musculus eukaryotic translation initiation factor 4B (Eif4b), mRNA [NM_145625]	NM_145625	-1.29015
Mus musculus RIKEN cDNA C230029F24 gene (C230029F24Rik), mRNA [NM_00100279]	NM_00100279	1.02635
Mus musculus Ras and Rab interactor 1 (Rin1), mRNA [NM_145495]	NM_145495	1.00351
RIKEN cDNA 5730522E02 gene	AK080999	-1.08919
DNA-damage inducible protein 2	NM_023544	-1.01076
Mus musculus vascular endothelial growth factor B (Vegfb), mRNA [NM_011697]	NM_011697	1.15321
RIKEN cDNA 1110001C20 gene	AK045075	-1.28856
Mus musculus Ras-related associated with diabetes (Rrad), mRNA [NM_019662]	NM_019662	-1.00996
Mus musculus KH domain containing, RNA binding, signal transduction associated protein 1 (Khs1), mRNA [NM_011317]	NM_011317	-1.27454
Mus musculus solute carrier family 35, member B3 (Slc35b3), mRNA [NM_134060]	NM_134060	-1.21793
hypothetical gene supported by AK029757	AK029757	1.0572
Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5 (Ndufa5), mRNA [NM_026614]	NM_026614	-1.19006
Mus musculus L1 cell adhesion molecule (L1cam), mRNA [NM_008478]	NM_008478	1.02249
Mus musculus integrin alpha 3 (Itga3), mRNA [NM_013565]	NM_013565	1.20982
Mus musculus thyroid hormone receptor associated protein 5 (Thrap5), mRNA [NM_198107]	NM_198107	1.23129
Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 8 (Arabidopsis thaliana), mRNA [NM_133805]	NM_133805	-1.10085
Mus musculus aristaless 4 (Alx4), mRNA [NM_007442]	NM_007442	1.05056
Armadillo repeat containing 6	AK081550	1.02284
RIKEN cDNA B430306D02 gene	AK046668	-1.22268
Mus musculus protein tyrosine phosphatase, receptor-type, F interacting protein 1 (Ptpn22), mRNA [NM_008905]	NM_008905	-1.29043
RIKEN cDNA 4930579C15 gene	NM_027089	1.06055
Mus musculus keratinocyte associated protein 1 (Krtcap1), mRNA [NM_133357]	NM_133357	1.05071
Mus musculus protein tyrosine phosphatase, non-receptor type 2 (Ptpn2), mRNA [NM_008977]	NM_008977	-1.20515
Mus musculus olfactory receptor 630 (Olfr630), mRNA [NM_147098]	NM_147098	1.05162
RIKEN cDNA 2900024P20 gene	AK036188	-1.05498
Mus musculus olfactory receptor 586 (Olfr586), mRNA [NM_147111]	NM_147111	1.09165

Mus musculus component of oligomeric golgi complex 1 (Cog1), mRNA [NM_01NM_013581		1.16001
sentrin 14	AK029494	1.03904
Mus musculus RIKEN cDNA 2310003F16 gene (2310003F16Rik), mRNA [NM_1NM_026318		-1.64568
Mus musculus RIKEN cDNA 2210412D01 gene (2210412D01Rik), mRNA [NM_1NM_133722		-1.16049
Mus musculus bromodomain adjacent to zinc finger domain, 1B (Baz1b), mRNA [NM_011714		1.03338
Androgen-binding protein eta	NM_020563	1.18203
Mus musculus CD80 antigen (Cd80), mRNA [NM_009855]	NM_009855	1.00868
Mus musculus complement component 8, beta subunit (C8b), mRNA [NM_1338NM_133882		1.07404
Unknown		-1.03566
RIKEN cDNA 9630055N22 gene	AK036315	-1.91457
Mus musculus mannose-6-phosphate receptor, cation dependent (M6pr), mRNA [NM_010749		-1.60252
Mus musculus leprecan-like 2 (Leprel2), mRNA [NM_013534]	NM_013534	1.21475
Mus musculus parathyroid hormone (Pth), mRNA [NM_020623]	NM_020623	1.03554
Hypothetical protein C230050L11	AK009333	-1.10506
Mus musculus mRNA for mszf12, partial cds.	AB010313	1.1589
Mus musculus propionyl Coenzyme A carboxylase, beta polypeptide (Pccb), mRNA [NM_025835		-1.05637
Mus musculus translocation associated membrane protein 1-like 1 (Tram11), mRNA [NM_146140		1.25141
Mus musculus cDNA sequence BC00398 (BC003498), mRNA [NM_030263]	NM_030263	-1.24678
RIKEN cDNA 1110067M19 gene	AK004401	-1.01622
Mus musculus olfactory receptor 1118 (Olfr1118), mRNA [NM_207632]	NM_207632	1.10572
Mus musculus mitochondrial ribosomal protein L30 (Mrpl30), mRNA [NM_027099NM_027098		-1.14224
Mus musculus RIKEN cDNA 9830147J24 gene (9830147J24Rik), mRNA [NM_1NM_145545		1.0231
Mus musculus fibroblast growth factor binding protein 1 (Fgfbp1), mRNA [NM_0008009		-1.17894
Mus musculus zinc finger and BTB domain containing 17 (Zbtb17), mRNA [NM_009541		1.1042
Tetratricopeptide repeat domain 21B	AK010712	-1.11251
Mus musculus homeo box D13 (Hoxd13), mRNA [NM_008275]	NM_008275	1.03635
Mus musculus hyaluronidase 2 (Hyal2), mRNA [NM_010489]	NM_010489	-1.04421
Mus musculus olfactory receptor 42 (Olfr42), mRNA [NM_010984]	NM_010984	1.01558
Mus musculus histone 2, H2bb (Hist2h2bb), mRNA [NM_175666]	NM_175666	-1.08766
Mus musculus MAS-related GPR, member H (Mrgprh), mRNA [NM_030726]	NM_030726	1.10243
Mus musculus RIKEN cDNA 2310001H12 gene (2310001H12Rik), mRNA [NM_145563		-1.52736
Mus musculus complement component 1, q subcomponent-like 1 (C1ql1), mRNA [NM_011795		-1.09037
Ring finger protein 138	AB025011	-1.30805
RIKEN cDNA 1110065P20 gene	AK021268	-1.01127
Mus musculus ribosomal protein S26 (Rps26), mRNA [NM_013765]	NM_013765	-1.04702
Mus musculus protein distantly related to the gamma subunit family (Pr1), mRNA [NM_019432		-1.08809
Mus musculus praja1, RING-H2 motif containing (Pja1), mRNA [NM_008853]	NM_008853	-1.30676
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK015562		1.07486
RIKEN cDNA 2510022D24 gene	AK010990	1.06579
Tetraspanin 7	NM_019634	1.08143
Mus musculus membrane protein, palmitoylated 5 (MAGUK p55 subfamily member 5) (MAGUK5), mRNA [NM_019579		1.06708
Melanoma antigen	NM_008581	1.10844
Mus musculus DNA segment, Chr 3, ERATO Doi 250, expressed (D3Ert250e), mRNA [NM_025714		-1.38034
RIKEN cDNA 1110032D16 gene	AA763224	1.00313
Mus musculus WD repeat domain 26 (Wdr26), mRNA [NM_145514]	NM_145514	-1.19131
Mus musculus complement component 8, alpha polypeptide (C8a), mRNA [NM_146148		-1.01631
Mus musculus RIKEN cDNA G630052C06 gene (G630052C06Rik), mRNA [NM_00100115		1.10919
Mus musculus zinc finger protein 110 (Zfp110), mRNA [NM_022981]	NM_022981	-1.20245
RIKEN cDNA 2610018I03 gene	AK049229	-1.03265
Mus musculus RIKEN cDNA 1810014L12 gene (1810014L12Rik), mRNA [NM_133706		1.16647
Mus musculus immunoglobulin superfamily, member 9 (Igsf9), mRNA [NM_033608		1.09903
Platelet-activating factor receptor	AK032547	1.00108

Mus musculus cytokine receptor-like factor 1 (Crlf1), mRNA [NM_018827]	NM_018827	1.08504
Mus musculus topoisomerase (DNA) II beta binding protein (Topbp1), mRNA [NM_176979]	NM_176979	-1.09286
RIKEN cDNA 1300006C19 gene	BC003206	-1.28975
Mus musculus troponin I, skeletal, fast 2 (Tnni2), mRNA [NM_009405]	NM_009405	-1.13095
Mus musculus DNA segment, Chr 3, ERATO Doi 789, expressed (D3Erttd789e),	NM_026222	-1.21135
Coiled-coil domain containing 13	AK013632	1.06885
Mus musculus RIKEN cDNA 4831426I19 gene (4831426I19Rik), mRNA [NM_172500]	NM_172500	1.01335
Mus musculus PIN2/TRF1-interacting protein (Pinx1), mRNA [NM_028228]	NM_028228	1.01182
Mus musculus fragile X mental retardation gene 1, autosomal homolog (Fxr1h),	NM_008053	-1.2361
Mus musculus MUS81 endonuclease homolog (yeast) (Mus81), mRNA [NM_027877]	NM_027877	1.24263
RIKEN cDNA A930038D23 gene	AK020943	-1.02379
Mus musculus olfactory receptor 31 (Olfr31), mRNA [NM_147027]	NM_147027	1.0413
CDNA sequence BC010584	AK086434	1.04305
Mus musculus adult male lung cDNA, RIKEN full-length enriched library, clone:1	AK004585	1.02211
Sulfatase 2	BC062900	-1.08021
Mus musculus betaine-homocysteine methyltransferase 2 (Bhmt2), mRNA [NM_022884]	NM_022884	1.05039
Mus musculus olfactory receptor 665 (Olfr665), mRNA [NM_146814]	NM_146814	1.01412
Mus musculus SNF related kinase (Snrk), mRNA [NM_133741]	NM_133741	1.00242
Expressed sequence AI462493	BC029863	-1.27918
hypothetical protein E430029F06	NM_172777	-1.0652
RIKEN cDNA 1700008G05 gene	BC030910	-1.08568
Mus musculus transcription factor 1 (Tcf1), mRNA [NM_009327]	NM_009327	1.02907
Similar to RIKEN cDNA 2010005H15	AK089257	-1.26017
Mus musculus ubiquitin-conjugating enzyme E2H (Ube2h), mRNA [NM_009459]	NM_009459	-1.05282
RIKEN cDNA 4930564N15 gene	AK016222	1.0128
RIKEN cDNA 9430090L19 gene	AB093251	-1.27893
Ubiquitin specific protease 30	AK078164	1.01797
Mus musculus LIM domains containing 1 (Limd1), mRNA [NM_013860]	NM_013860	-1.57032
Mus musculus transaldolase 1 (Taldo1), mRNA [NM_011528]	NM_011528	-1.24435
Similar to adenine phosphoribosyltransferase	AK047372	-1.17582
Mus musculus sorting nexin 11 (Snx11), mRNA [NM_028965]	NM_028965	1.06437
Mus musculus RIKEN cDNA 3110006P09 gene (3110006P09Rik), mRNA [NM_026521]	NM_026521	-1.40951
UI-M-AN1-afe-c-11-0-UI.s1 NIH_BMAP_MBG_N Mus musculus cDNA clone UI-AI834886	UI-AI834886	1.05282
Mus musculus RIKEN cDNA 4930524B15 gene (4930524B15Rik), mRNA [NM_026262]	NM_026262	-1.00201
Dbx=homeobox gene [mice, embryo, mRNA, 2102 nt].	S75837	-1.02196
Mus musculus RIKEN cDNA D930036F22 gene (D930036F22Rik), mRNA [NM_177171]	NM_177171	1.10335
RIKEN cDNA 1700039D13 gene	AK032002	-1.05262
Mus musculus cDNA sequence, BC023835 (BC023835), mRNA [NM_172116]	NM_172116	1.16492
Mus musculus RIKEN cDNA 2810046M22 gene (2810046M22Rik), mRNA [NM_026621]	NM_026621	1.02696
Mus musculus docking protein 4 (Dok4), mRNA [NM_053246]	NM_053246	-1.014
CDNA sequence BC026996	BC026996	1.05725
Mus musculus protocadherin 21 (Pcdh21), mRNA [NM_130878]	NM_130878	-1.03105
Mus musculus RIKEN cDNA A930037G23 gene (A930037G23Rik), mRNA [NM_178787]	NM_178787	1.07237
Zinc finger, ZZ-type with EF hand domain 1	AK018382	1.56572
Mus musculus similar to Ig delta chain C region, membrane-bound form - mouse	XM_356604	-1.01362
Mus musculus olfactory receptor 969 (Olfr969), mRNA [NM_146826]	NM_146826	-1.04664
Mus musculus tyrosine kinase, non-receptor, 1 (Tnk1), mRNA [NM_031880]	NM_031880	-1.11358
Mus musculus guanosine diphosphate (GDP) dissociation inhibitor 1 (Gdi1), mRNA [NM_010273]	NM_010273	1.04539
Mus musculus olfactory receptor 1302 (Olfr1302), mRNA [NM_146889]	NM_146889	1.07036
Polymerase (RNA) II (DNA directed) polypeptide E	AK010567	-1.09427
Mus musculus olfactory receptor 710 (Olfr710), mRNA [NM_146601]	NM_146601	-1.02908
Mus musculus phospholipase A2, group XIIA (Pla2g12a), mRNA [NM_023196]	NM_023196	1.08474

Mus musculus RIKEN cDNA 4931406B18 gene (4931406B18Rik), mRNA [NM_	NM_028737	-1.04065
Matrix metalloproteinase 25	BC059059	1.09595
Mus musculus olfactory receptor 604 (Olf604), mRNA [NM_147070]	NM_147070	1.01294
Mus musculus FK506 binding protein 10 (Fkbp10), mRNA [NM_010221]	NM_010221	-1.06924
Dual specificity phosphatase 8	AK017419	1.10116
Mus musculus cDNA sequence AY026312 (AY026312), mRNA [NM_133359]	NM_133359	1.02643
Mus musculus RIKEN cDNA 8230402K04 gene (8230402K04Rik), mRNA [NM_	NM_177755	1.12125
Mus musculus H2-K region expressed gene 2 (H2-Ke2), mRNA [NM_010385]	NM_010385	-1.20848
Aldolase 1, A isoform	NM_007438	-1.02563
Mus musculus growth factor receptor bound protein 7 (Grb7), mRNA [NM_0103	NM_010346	-1.10553
Mus musculus RIKEN cDNA A730008L03 gene (A730008L03Rik), mRNA [NM_	NM_021393	-1.09411
Mus musculus RIKEN cDNA 2610317D23 gene (2610317D23Rik), mRNA [NM_	NM_018786	1.09613
Mus musculus platelet-activating factor acetylhydrolase 2 (Pafah2), mRNA [NM_	NM_133880	-1.14726
Mus musculus RIKEN cDNA 0910001A06 gene (0910001A06Rik), mRNA [NM_	NM_144846	-1.5659
Mus musculus gamma-aminobutyric acid (GABA-A) receptor, subunit gamma 3	NM_008074	1.05045
Mus musculus 6-phosphogluconolactonase (Pgl6), mRNA [NM_025396]	NM_025396	1.1407
Mus musculus thiosulfate sulfurtransferase, mitochondrial (Tst), mRNA [NM_00	NM_009437	-1.04251
Mus musculus protein phosphatase 2a, catalytic subunit, alpha isoform (Ppp2ca	NM_019411	-1.36975
Mus musculus vomeronasal 1 receptor, H4 (V1rh4), mRNA [NM_134213]	NM_134213	1.07744
Mus musculus RIKEN cDNA 2410141M05 gene (2410141M05Rik), mRNA [NM_	NM_030064	1.12871
Mus musculus ankyrin repeat, family A (RFXANK-like), 2 (Ankra2), mRNA [NM_	NM_023472	-1.29287
Mus musculus retinoblastoma binding protein 7 (Rbbp7), mRNA [NM_009031]	NM_009031	-1.55447
Mus musculus telomerase reverse transcriptase (Tert), mRNA [NM_009354]	NM_009354	1.11326
Mus musculus phosphatidylinositol 4-kinase type 2 beta (Pi4k2b), mRNA [NM_	NM_025951	-1.22618
Mus musculus ryanodine receptor 1, skeletal muscle (Ryr1), mRNA [NM_00910	NM_009109	1.10445
DNA segment, Chr 5, ERATO Doi 606, expressed	AK028475	-1.2161
Mus musculus insulin-like growth factor 2 (Igf2), mRNA [NM_010514]	NM_010514	-1.12078
Mus musculus small glutamine-rich tetratricopeptide repeat (TPR)-containing, b	NM_144838	1.04763
RIKEN cDNA 4930521I23 gene	AK015863	1.07216
RIKEN cDNA 1500005N04 gene	BC039922	-1.13135
Mus musculus paternally expressed 12 (Peg12), mRNA [NM_013788]	NM_013788	1.04949
Mus musculus kinesin-associated protein 3 (Kifap3), mRNA [NM_010629]	NM_010629	-1.23334
Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1 (Ndu	NM_019443	-1.22519
Mus musculus annexin A8 (Anxa8), mRNA [NM_013473]	NM_013473	-1.23569
Solute carrier family 27 (fatty acid transporter), member 6	AK028699	-1.02685
Mus musculus RIKEN cDNA E430004N04 gene (E430004N04Rik), mRNA [NM_	NM_178666	1.07381
Mus musculus small proline rich-like 10 (Sprrl10), mRNA [NM_025420]	NM_025420	1.1088
Zinc finger protein 248	AK012874	1.02374
Mus musculus disrupted in renal carcinoma 2 (human) (Dirc2), mRNA [NM_153	NM_153550	1.0162
Mus musculus minichromosome maintenance deficient 2 mitotin (S. cerevisiae)	NM_008564	1.15216
RIKEN cDNA C330002D13 gene	AK049111	1.08936
IBR domain containing 3	AK015966	1.10816
OLFACTORY RECEPTOR GA_X6K02T2PVTD-13795933-13794938. [Source:SPTREMBL;Acc		1.0763
Mus musculus melanocortin 4 receptor (Mc4r), mRNA [NM_016977]	NM_016977	1.08416
Mus musculus sorting nexin 4 (Snx4), mRNA [NM_080557]	NM_080557	-1.38257
Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched librar	AK038197	1.0631
Mus musculus RIKEN cDNA 2310016C08 gene (2310016C08Rik), mRNA [NM_	NM_023516	-1.21358
Mus musculus RIKEN cDNA 4930583H14 gene (4930583H14Rik), mRNA [NM_	NM_026358	1.12463
Mus musculus nuclear factor of kappa light polypeptide gene enhancer in B-cell:	NM_019408	1.18238
Mus musculus odd Oz/ten-m homolog 1 (Drosophila) (Odz1), mRNA [NM_0118:	NM_011855	1.04319
RIKEN cDNA D230004N17 gene	AK034202	1.11289
Bcl2-like 2	NM_007537	-1.11388

Mus musculus muscleblind-like 2 (Mbnl2), transcript variant 1, mRNA [NM_175341:NM_175341]	1.03345
Mus musculus one cut domain, family member 1 (Onecut1), mRNA [NM_008266:NM_008266]	-1.05231
Mus musculus tripartite motif-containing 41 (Trim41), mRNA [NM_145377:NM_145377]	1.0138
Mus musculus RIKEN cDNA E030025L21 gene (E030025L21Rik), mRNA [NM_207531:NM_207531]	-1.49919
GPI-anchored HDL-binding protein 1	AK003305
Dual oxidase 1	AK037033
RIKEN cDNA 1300018I17 gene	AK028751
N-ethylmaleimide sensitive fusion protein attachment protein gamma	BC026977
Mus musculus procollagen, type V, alpha 2 (Col5a2), mRNA [NM_007737:NM_007737]	1.03223
Mus musculus protein kinase, interferon inducible double stranded RNA dependent	NM_011871
Rap guanine nucleotide exchange factor (GEF) 5	AK122234
Mus musculus nuclear receptor coactivator 3 (Ncoa3), mRNA [NM_008679:NM_008679]	-1.04965
Mus musculus retinoblastoma binding protein 5 (Rbbp5), mRNA [NM_172517:NM_172517]	1.07276
Mus musculus heat shock transcription factor 4 (Hsf4), mRNA [NM_011939:NM_011939]	-1.03198
Mus musculus RIKEN cDNA 4930438O05 gene (4930438O05Rik), mRNA [NM_030184:NM_030184]	-1.14338
RIKEN cDNA A930027G11 gene	AK017423
Mus musculus RIKEN cDNA 1700019M22 gene (1700019M22Rik), mRNA [NM_027076:NM_027076]	1.49886
Mus musculus alpha 1 microglobulin/bikunin (Ambp), mRNA [NM_007443:NM_007443]	-1.05823
Mus musculus integral membrane protein 2A (Itm2a), mRNA [NM_008409:NM_008409]	-1.40467
Mus musculus olfactory receptor 578 (Olf578), mRNA [NM_147115:NM_147115]	1.15323
Mus musculus CCR4-NOT transcription complex, subunit 4 (Cnot4), mRNA [NM_016877:NM_016877]	1.04093
Mus musculus laminin, alpha 2 (Lama2), mRNA [NM_008481:NM_008481]	-1.10672
Mus musculus SWI/SNF related, matrix associated, actin dependent regulator of	NM_011418
Mus musculus zinc finger protein 7 (Zfp7), mRNA [NM_145916:NM_145916]	-1.36946
Mus musculus RIKEN cDNA 2310037I24 gene (2310037I24Rik), mRNA [NM_133714:NM_133714]	-1.13207
Mus musculus immature colon carcinoma transcript 1 (Ict1), mRNA [NM_026729:NM_026729]	-1.12826
RIKEN cDNA B230308G19 gene	BC043462
Mus musculus NAD(P) dependent steroid dehydrogenase-like (Nsdhl), mRNA [NM_010941:NM_010941]	-1.06794
Mus musculus phosphofructokinase, muscle (Pfkf), mRNA [NM_021514:NM_021514]	1.06897
Mus musculus selenophosphate synthetase 2 (Sephs2), mRNA [NM_009266:NM_009266]	1.18911
Mus musculus BTB (POZ) domain containing 14B (Btbd14b), mRNA [NM_025788:NM_025788]	1.08634
Mus musculus RIKEN cDNA 2310005N03 gene (2310005N03Rik), mRNA [NM_025511:NM_025511]	-1.37183
Mus musculus baculoviral IAP repeat-containing 2 (Birc2), mRNA [NM_007465:NM_007465]	-1.23098
Mus musculus RIKEN cDNA 2810048G17 gene (2810048G17Rik), mRNA [NM_133746:NM_133746]	-1.04088
Mus musculus syntaxin binding protein 6 (amisyn) (Stxbp6), mRNA [NM_144552:NM_144552]	-1.32978
Mus musculus solute carrier organic anion transporter family, member 1c1 (Slc1c1)	NM_021471
CDNA sequence BC024683	BC024683
Mus musculus cell division cycle 42 homolog (S. cerevisiae) (Cdc42), mRNA [NM_009861:NM_009861]	-1.15903
Mus musculus RIKEN cDNA 9930104L06 gene (9930104L06Rik), mRNA [NM_177573:NM_177573]	1.19435
Mus musculus formin binding protein 4 (Fnbp4), mRNA [NM_018828:NM_018828]	-1.02973
Mus musculus, clone IMAGE:4190185, mRNA, partial cds	BC026389
Runt related transcription factor 2	D14636
Mus musculus RIKEN cDNA 1700007N18 gene (1700007N18Rik), mRNA [NM_027046:NM_027046]	1.046
T-cell receptor beta, joining region	AK017898
Mus musculus olfactory receptor 657 (Olf657), mRNA [NM_146312:NM_146312]	-1.01516
Mus musculus colony stimulating factor 2 receptor, beta 2, low-affinity (granulocyte colony-stimulating factor receptor 2)	NM_007781
RIKEN cDNA A230083H22 gene	AK018172
Mus musculus programmed cell death protein 7 (Pcd7), mRNA [NM_016688:NM_016688]	-1.03861
Mus musculus ninjurin 2 (Ninj2), mRNA [NM_016718:NM_016718]	-1.05599
Mus musculus olfactory receptor 958 (Olf958), mRNA [NM_146330:NM_146330]	1.08329
Mus musculus RIKEN cDNA 4632417N05 gene (4632417N05Rik), mRNA [NM_028725:NM_028725]	-1.14557
Mus musculus transient receptor potential cation channel, subfamily V, member 1	NM_011706
	1.006

Mus musculus pleckstrin homology-like domain, family A, member 3 (Phlda3), r	NM_013750	-1.17762
Mus musculus heat shock protein 1A (Hspa1a), mRNA [NM_010479]	NM_010479	1.00171
Mus musculus olfactory receptor 1499 (Olfr1499), mRNA [NM_146796]	NM_146796	1.06311
Mus musculus RIKEN cDNA 1700082M22 gene (1700082M22Rik), mRNA [NM_	NM_028564	1.13828
RIKEN cDNA 1700024P04 gene	AK006311	1.06851
RIKEN cDNA A330033J07 gene	AK046068	1.05945
Mus musculus olfactory receptor 126 (Olfr126), mRNA [NM_146890]	NM_146890	1.01153
Mus musculus adult female vagina cDNA, RIKEN full-length enriched library, clc	AK037125	-1.21683
Mus musculus RIKEN cDNA 2810407E01 gene (2810407E01Rik), mRNA [NM_	NM_026995	-1.1842
Mus musculus insulin-like growth factor 2 receptor (Igf2r), mRNA [NM_010515]	NM_010515	-1.2028
Mus musculus hexosaminidase B (Hexb), mRNA [NM_010422]	NM_010422	-1.23927
Mus musculus a disintegrin and metalloprotease domain 7 (Adam7), mRNA [NM_	NM_007402	-1.06566
RIKEN cDNA 2810039F03 gene	AK078087	-1.03371
Mus musculus homeo box A9 (Hoxa9), mRNA [NM_010456]	NM_010456	1.1183
Rho/rac guanine nucleotide exchange factor (GEF) 18	AK041423	1.11652
Mus musculus polyadenylate binding protein-interacting protein 1 (Paip1), mRN	NM_145457	1.03303
Transcription factor 20	AK029775	1
Mus musculus RIKEN cDNA 5730502D15 gene (5730502D15Rik), mRNA [NM_	NM_026485	1.12653
Myosin VC	AK049367	-1.0585
Mus musculus B-cell CLL/lymphoma 6, member B (Bcl6b), mRNA [NM_007528]	NM_007528	-1.08257
Mus musculus aquaporin 5 (Aqp5), mRNA [NM_009701]	NM_009701	-1.01409
5, 10-methenyltetrahydrofolate synthetase	AK081946	1.13422
Mus musculus mitochondrial ribosomal protein L54 (Mrpl54), mRNA [NM_02531	NM_025317	-1.25137
Mus musculus interleukin 2 (Il2), mRNA [NM_008366]	NM_008366	1.0943
Mus musculus bleomycin hydrolase (Blmh), mRNA [NM_178645]	NM_178645	-1.05656
Mus musculus RIKEN cDNA C130073D16 gene (C130073D16Rik), mRNA [NM_	NM_175557	1.05317
Mus musculus heat shock protein 2 (Hspa2), transcript variant 1, mRNA [NM_0	NM_008301	-1.07216
Mus musculus ATP synthase, H ⁺ transporting mitochondrial F1 complex, beta s	NM_016774	-1.19648
Mus musculus RIKEN cDNA A930008A22 gene (A930008A22Rik), mRNA [NM_	NM_172768	-1.14794
Mus musculus ecotropic viral integration site 2b (Evi2b), mRNA [NM_146023]	NM_146023	1.09044
RIKEN cDNA 4933434G05 gene	AK017054	1.11055
Mus musculus serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiprot	NM_026535	1.00001
Mus musculus RIKEN cDNA 3300001P08 gene (3300001P08Rik), mRNA [NM_	NM_026313	-1.17081
Mus musculus TNF receptor-associated protein 1 (Trap1), mRNA [NM_026508]	NM_026508	1.05849
Mus musculus fibromodulin (Fmod), mRNA [NM_021355]	NM_021355	1.06106
Mus musculus sialidase 4 (Neu4), mRNA [NM_173772]	NM_173772	1.00168
RIKEN cDNA 2010315L10 gene	NM_025917	-1.27896
Mus musculus uridine phosphorylase 1 (Upp1), mRNA [NM_009477]	NM_009477	1.05956
Mus musculus olfactory receptor 420 (Olfr420), mRNA [NM_146305]	NM_146305	-1.08243
Tubulin, gamma complex associated protein 6	AK052441	-1.01929
Mus musculus phospholipase C, delta (Plcd), mRNA [NM_019676]	NM_019676	-1.00502
Lin 7 homolog a (C. elegans)	AK077191	1.10795
Mus musculus zinc finger, FYVE domain containing 16 (Zfyve16), mRNA [NM_1	NM_173392	-1.66311
Mus musculus RIKEN cDNA 9030408N13 gene (9030408N13Rik), mRNA [NM_	NM_025779	-1.27888
Mus musculus amyloid beta (A4) precursor protein-binding, family B, member 2	NM_009686	1.03107
Mus musculus vomeronasal 1 receptor, I3 (V1ri3), mRNA [NM_134220]	NM_134220	1.01772
RIKEN cDNA 1700011F14 gene	AK005864	1.00078
Mus musculus mitochondrial ribosomal protein L14 (Mrpl14), mRNA [NM_0267	NM_026732	-1.06954
Mus musculus 2'-5' oligoadenylate synthetase 1G (Oas1g), mRNA [NM_011852	NM_011852	-1.05238
Mus musculus sulfotransferase family, cytosolic, 1C, member 1 (Sult1c1), mRN	NM_026935	1.00252
Mus musculus RIKEN cDNA B830045N13 gene (B830045N13Rik), mRNA [NM_	NM_153539	1.13232
Mus musculus cholinergic receptor, nicotinic, beta polypeptide 3 (Chrn3), trans	NM_173212	1.01949

Mus musculus annexin A7 (Anxa7), mRNA [NM_009674]	NM_009674	1.03863
Mus musculus iduronidase, alpha-L- (Idua), mRNA [NM_008325]	NM_008325	1.10981
Mus musculus indoleamine-pyrrole 2,3 dioxygenase (Indo), mRNA [NM_008324]	NM_008324	1.02775
RIKEN cDNA 4933413B09 gene	AK006458	1.02941
Mus musculus expressed sequence AI256725 (AI256725), mRNA [NM_177606]	NM_177606	-1.09654
Phosphorylase kinase alpha 2	AK018208	1.0147
Expressed sequence AI853363	BQ175060	1.20001
RIKEN cDNA 4732495E13 gene	AK048138	-1.21775
Mus musculus RIKEN cDNA 4930471O16 gene (4930471O16Rik), mRNA [NM_026348]	NM_026348	-1.02893
Mus musculus polymeric immunoglobulin receptor (Pigr), mRNA [NM_011082]	NM_011082	-1.37028
Mus musculus solute carrier family 3, member 1 (Slc3a1), mRNA [NM_009205]	NM_009205	1.06196
Mus musculus hippocalcin (Hpca), mRNA [NM_010471]	NM_010471	-1.0905
guanine nucleotide exchange factor (RCC1 related)	NM_013789	-1.00383
Mus musculus inhibin beta-A (Inhba), mRNA [NM_008380]	NM_008380	1.07788
Regulating synaptic membrane exocytosis 1	AJ310531	-1.01199
Mus musculus olfactory receptor 836 (Olf836), mRNA [NM_146564]	NM_146564	-1.06879
Mus musculus anaphase promoting complex subunit 13 (Anapc13), mRNA [NM_181394]	NM_181394	-1.04824
RIKEN cDNA 4921508D12 gene	AK014842	-1.04309
Mus musculus glyoxalase 1 (Glo1), mRNA [NM_025374]	NM_025374	-1.36861
Mus musculus AT rich interactive domain 3A (Bright like) (Arid3a), mRNA [NM_007880]	NM_007880	-1.11455
Mus musculus lamin B1 (Lmnb1), mRNA [NM_010721]	NM_010721	-1.91446
Expressed sequence AU042671	AK044167	1.13693
Mus musculus cathepsin G (Ctsg), mRNA [NM_007800]	NM_007800	1.07007
Cleavage and polyadenylation specific factor 6	AK077833	-1.33661
Mus musculus protein phosphatase 1, regulatory subunit 9B (Ppp1r9b), mRNA [NM_172261]	NM_172261	1.21056
hypothetical protein D430041B17	NM_172737	1.18613
Mus musculus LIM domain only 6 (Lmo6), mRNA [NM_175097]	NM_175097	1.00736
Mus musculus ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit (Atp5a1), mRNA [NM_007505]	NM_007505	-1.26478
Mus musculus RIKEN cDNA 0910001K20 gene (0910001K20Rik), mRNA [NM_026719]	NM_026719	-1.44368
Mus musculus DiGeorge syndrome critical region gene 2 (Dgcr2), mRNA [NM_010048]	NM_010048	-1.04177
Mus musculus RIKEN cDNA A830091I15 gene (A830091I15Rik), mRNA [NM_172795]	NM_172795	1.03619
Mus musculus angiopoietin 4 (Agpt4), mRNA [NM_009641]	NM_009641	1.13423
Mus musculus vomeronasal 1 receptor, H18 (V1rh18), mRNA [NM_134241]	NM_134241	1.13034
Mus musculus mucin 20 (Muc20), mRNA [NM_146071]	NM_146071	1.07
Mus musculus kinesin family member C3 (Kifc3), mRNA [NM_010631]	NM_010631	1.04849
Mus musculus RNA binding motif protein 16 (Rbm16), mRNA [NM_134123]	NM_134123	-1.23483
Mus musculus RIKEN cDNA 4930556P03 gene (4930556P03Rik), mRNA [NM_029236]	NM_029236	-1.1243
Mus musculus RIKEN cDNA 1700092C17 gene (1700092C17Rik), mRNA [NM_183102]	NM_183102	1.1097
Transmembrane and coiled coil domains 3	AK083129	-1.03437
Phosphatase and actin regulator 3	AK015141	1.03714
Mus musculus RIKEN cDNA 2010004A03 gene (2010004A03Rik), mRNA [NM_029646]	NM_029646	-1.06352
RIKEN cDNA 5730601F06 gene	AK088432	-1.36605
Mus musculus diacylglycerol kinase, gamma (Dgkg), mRNA [NM_138650]	NM_138650	-1.03322
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK016967	AK016967	1.0315
RIKEN cDNA 1700021A07 gene	AK006189	-1.02587
Mus musculus von Hippel-Lindau binding protein 1 (Vbp1), mRNA [NM_011692]	NM_011692	-1.50654
RIKEN cDNA 1500010J02 gene	AK038651	-1.07633
Mus musculus zinc finger protein, multitype 1 (Zfpm1), mRNA [NM_009569]	NM_009569	-1.0058
Mus musculus ventral anterior homeobox containing gene 2 (Vax2), mRNA [NM_011912]	NM_011912	-1.04357
Mus musculus cDNA sequence BC021611 (BC021611), mRNA [NM_144932]	NM_144932	-1.03821
Mus musculus sema domain, immunoglobulin domain (Ig), transmembrane domain (IgSF), type I, semaphorin 4D (Sema4d), mRNA [NM_011976]	NM_011976	-1.10742
implantation serine protease 2	NM_053260	1.09407

Mus musculus cDNA sequence BC027072 (BC027072), mRNA [NM_146082]	NM_146082	1.05026
Mus musculus malate dehydrogenase 2, NAD (mitochondrial) (Mdh2), mRNA [NM_008617]	NM_008617	-1.05881
Mus musculus fragile X mental retardation 2 homolog (Fmr2), mRNA [NM_008032]	NM_008032	1.05658
Mus musculus histone 1, H1a (Hist1h1a), mRNA [NM_030609]	NM_030609	1.01397
Mus musculus poly (A) polymerase beta (testis specific) (Pap0lb), mRNA [NM_019943]	NM_019943	1.14635
RIKEN cDNA 2700050F09 gene	AK028869	1.03667
Mus musculus phosphodiesterase 7A (Pde7a), mRNA [NM_008802]	NM_008802	-1.27622
Mus musculus mitogen-activated protein kinase associated protein 1 (Mapkap1)	NM_177345	1.11191
RIKEN cDNA D030051N19 gene	AK037068	1.32008
RIKEN cDNA 5133400D11 gene	BC004678	-1.37077
Mus musculus RIKEN cDNA 6530401L14 gene (6530401L14Rik), mRNA [NM_181416]	NM_181416	-1.49749
Mus musculus lipocalin 3 (Lcn3), mRNA [NM_010694]	NM_010694	-1.02529
RIKEN cDNA 1700013G20 gene	AK078146	-1.55085
Splicing factor, arginine/serine-rich 1 (ASF/SF2)	NM_173374	-1.4248
Mus musculus endothelial PAS domain protein 1 (Epas1), mRNA [NM_010137]	NM_010137	1.05593
Mus musculus testis expressed gene 15 (Tex15), mRNA [NM_031374]	NM_031374	1.02496
RIKEN cDNA 6030465E24 gene	AK049617	1.04465
Mus musculus muscle and microspikes RAS (Mras), mRNA [NM_008624]	NM_008624	1.01256
Mus musculus RIKEN cDNA 1100001H23 gene (1100001H23Rik), mRNA [NM_025806]	NM_025806	-1.59607
RIKEN cDNA 4930442E04 gene	AK015359	1.0607
Mus musculus Mpv17 transgene, kidney disease mutant (Mpv17), mRNA [NM_008622]	NM_008622	-1.04527
Mus musculus endothelial differentiation, G-protein-coupled receptor 6 (Edg6), r	NM_010102	1.05807
Mus musculus epidymal sperm gene (X99300), mRNA [NM_020613]	NM_020613	1.0533
Mus musculus ectodermal-neural cortex 1 (Enc1), mRNA [NM_007930]	NM_007930	-1.08824
Zinc finger protein 511	AK010407	-1.13276
Mus musculus interleukin 20 (Il20), mRNA [NM_021380]	NM_021380	1
NIMA (never in mitosis gene a)-related expressed kinase 1	AK077047	1.05728
Mus musculus ets variant gene 1 (Etv1), mRNA [NM_007960]	NM_007960	-1.06042
Mus musculus RIKEN cDNA 4930583C14 gene (4930583C14Rik), mRNA [NM_029472]	NM_029472	1.1058
Mus musculus glycogenin 1 (Gyg1), mRNA [NM_013755]	NM_013755	-1.34566
Mus musculus RIKEN cDNA 2810401C16 gene (2810401C16Rik), mRNA [NM_175178]	NM_175178	1.14329
Mus musculus DNA segment, Chr 18, Wayne State University 98, expressed (D	NM_178604	-1.01916
Mus musculus metastasis associated 3 (Mta3), mRNA [NM_054082]	NM_054082	1.0067
Mus musculus DNA segment, Chr 7, ERATO Doi 156, expressed (D7Ertd156e),	NM_153057	1.04113
Mus musculus olfactory receptor 661 (Olfr661), mRNA [NM_146748]	NM_146748	1.02578
lung-inducible neuralized-related C3HC4 RING domain protein	AK040949	1.06519
Mus musculus keratin complex 1, acidic, gene 13 (Krt1-13), mRNA [NM_010662]	NM_010662	1.07342
Mus musculus C-reactive protein, petaxin related (Crp), mRNA [NM_007768]	NM_007768	1.44629
Golgi autoantigen, golgin subfamily b, macrogolgin 1	BC060254	1.10667
Mus musculus expressed sequence AI839735 (AI839735), mRNA [NM_178915]	NM_178915	-1.11764
Mus musculus RIKEN cDNA 2310004N11 gene (2310004N11Rik), mRNA [NM_028800]	NM_028800	1.14805
Expressed sequence AI661311	BC009019	1.11493
Mus musculus microfibrillar associated protein 5 (Mfap5), mRNA [NM_015776]	NM_015776	-1.01662
Mus musculus hypermethylated in cancer 1 (Hic1), mRNA [NM_010430]	NM_010430	-1.02689
Mus musculus 5' nucleotidase, ecto (Nt5e), mRNA [NM_011851]	NM_011851	-1.13107
RIKEN cDNA 1700013F07 gene	AK005946	1.10537
Mus musculus NK-3 transcription factor, locus 1 (Drosophila) (Nkx3-1), mRNA [NM_010921]	NM_010921	-1.00182
Mus musculus olfactory receptor 702 (Olfr702), mRNA [NM_146597]	NM_146597	-1.01817
Mus musculus ring finger protein 12 (Rnf12), mRNA [NM_011276]	NM_011276	-1.60261
Mus musculus small EDRK-rich factor 1 (Serf1), mRNA [NM_011353]	NM_011353	-1.12413
Fanconi anemia, complementation group D2	AK019136	1.00786
Mus musculus nuclear receptor interacting protein 2 (Nrip2), mRNA [NM_021711]	NM_021711	1.08547

Mus musculus oviductal glycoprotein 1 (Ovgp1), mRNA [NM_007696]	NM_007696	1.00036
Mus musculus myosin IB (Myo1b), mRNA [NM_010863]	NM_010863	-1.6961
Mus musculus RIKEN cDNA 1700021K19 gene (1700021K19Rik), mRNA [NM_0172615]	NM_0172615	-1.30287
Mus musculus adult male cerebellum cDNA, RIKEN full-length enriched library, clone AK005121	AK005121	1.12518
Mus musculus 0 day neonate skin cDNA, RIKEN full-length enriched library, clone AK019479	AK019479	-1.27569
Mus musculus dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A delta isomerase), mRNA [NM_010023]	NM_010023	-1.11811
Mus musculus torsin family 3, member A (Tor3a), mRNA [NM_023141]	NM_023141	-1.36981
Myeloid/lymphoid or mixed lineage-leukemia translocation to 6 homolog (Drosophila), mRNA [AK045803]	AK045803	-1.0747
Mus musculus SNF2 histone linker PHD RING helicase (Shprh), mRNA [NM_0172937]	NM_0172937	1.1219
Oxysterol binding protein-like 6	AK046927	1.06882
Mus musculus neighbor of Cox4 (Noc4), mRNA [NM_010926]	NM_010926	-1.10256
Mus musculus olfactory receptor 466 (Olfr466), mRNA [NM_146819]	NM_146819	1.08638
RIKEN cDNA 5033413D22 gene	AK017165	-1.20777
Nuclear receptor binding protein 2	NM_144847	-1.16298
Mus musculus NK2 transcription factor related, locus 6 (Drosophila) (Nkx2-6), mRNA [NM_010920]	NM_010920	1.11917
Mus musculus replication factor C (activator 1) 2 (Rfc2), mRNA [NM_020022]	NM_020022	1.00935
Mus musculus acetoacetyl-CoA synthetase (Aacs), mRNA [NM_030210]	NM_030210	1.09305
RIKEN cDNA B930007P11 gene	AK034360	-1.0341
Solute carrier family 39 (zinc transporter), member 9	BC058649	1.03084
hypothetical protein MGC7717	NM_146022	1.00696
CDNA sequence BC027663	BC027663	1.14044
Male sterility domain containing 2	AK033674	-1.101
Mus musculus adenomatosis polyposis coli 2 (Apc2), mRNA [NM_011789]	NM_011789	1.07371
RIKEN cDNA 2310003C23 gene	BC059022	-1.10651
Mus musculus stefin A1 (Stfa1), mRNA [NM_001001332]	NM_001001332	-1.23456
Mus musculus RIKEN cDNA 2310039D24 gene (2310039D24Rik), mRNA [XM_0134476]	XM_0134476	-1.0667
Mus musculus RIKEN cDNA 1810063B05 gene (1810063B05Rik), mRNA [NM_0174987]	NM_0174987	-1.51336
Mus musculus calcium and integrin binding family member 2 (Cib2), mRNA [NM_019686]	NM_019686	-1.08909
Mus musculus RIKEN cDNA 1500011L16 gene (1500011L16Rik), mRNA [NM_026899]	NM_026899	-1.37652
Mus musculus serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 1	NM_198680	-1.19692
RIKEN cDNA 1700120E14 gene	AK007214	1.08719
Mitochondrial ribosomal protein S33	NM_010270	-1.14733
Mus musculus transmembrane channel-like gene family 4 (Tmc4), mRNA [NM_0181820]	NM_0181820	1.08048
Mus musculus RIKEN cDNA 1700012A16 gene (1700012A16Rik), mRNA [XM_0129498]	XM_0129498	1.10754
RIKEN cDNA 2310007L24 gene	AK009213	1.13168
Mus musculus ubiquitin specific protease 9, Y chromosome (Usp9y), mRNA [NM_0148943]	NM_0148943	-1.29811
Serine (or cysteine) proteinase inhibitor, clade A, member 3A	AK016702	1.02279
Mus musculus secretogranin III (Scg3), mRNA [NM_009130]	NM_009130	1.07161
Mus musculus solute carrier family 25, member 27 (Slc25a27), mRNA [NM_028711]	NM_028711	1.03125
Mus musculus fibroblast growth factor 20 (Fgf20), mRNA [NM_030610]	NM_030610	-1.01289
GA repeat binding protein, beta 2	AK020406	1.07502
Mus musculus ubiquinol-cytochrome c reductase binding protein (Uqcrb), mRNA [NM_026219]	NM_026219	-1.29708
Anaphase promoting complex subunit 1	AK090134	-1.2024
Calcium channel, voltage-dependent, gamma subunit 6	NM_133183	1.04019
Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 7	NM_017394	-1.03087
Mus musculus regulatory factor X, 3 (influences HLA class II expression) (Rfx3), mRNA [NM_011265]	NM_011265	1.05066
RIKEN cDNA 0610009B14 gene	AK002366	1.13652
Myeloid/lymphoid or mixed-lineage leukemia 5	AK021284	-1.53786
Mus musculus deleted in bladder cancer chromosome region candidate 1 (humane homolog) (DMBR1), mRNA [NM_019967]	NM_019967	1.04412
RIKEN cDNA 4833426I10 gene	AK040577	1.08542
Inositol 1,4,5-triphosphate receptor 2	AK030915	1.0977
Mus musculus adult male thymus cDNA, RIKEN full-length enriched library, clone AK020020	AK020020	1.07146

Mus musculus spinocerebellar ataxia 2 homolog (human) (Sca2), mRNA [NM_000912]	NM_000912	-1.12389
Mus musculus anaphase-promoting complex subunit 5 (Anapc5), mRNA [NM_021505]	NM_021505	1.08894
Mus musculus RIKEN cDNA 2310075C12 gene (2310075C12Rik), mRNA [NM_133739]	NM_133739	-1.4126
Mus musculus ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c, mRNA [NM_020582]	NM_020582	-1.36618
Chromodomain helicase DNA binding protein 9	AK039562	-1.05788
Mus musculus G-protein-coupled receptor 50 (Gpr50), mRNA [NM_010340]	NM_010340	1.10277
Mus musculus myc induced nuclear antigen (Mina), mRNA [NM_025910]	NM_025910	-1.31767
Mus musculus pyruvate dehydrogenase (lipoamide) beta (Pdhb), mRNA [NM_024221]	NM_024221	-1.24568
Mus musculus RIKEN cDNA 8430419L09 gene (8430419L09Rik), mRNA [NM_028982]	NM_028982	1.0796
Mus musculus RIKEN cDNA 3110002L15 gene (3110002L15Rik), mRNA [NM_026665]	NM_026665	-1.28606
Mus musculus kinesin family member 1C (Kif1c), mRNA [NM_153103]	NM_153103	1.05563
Mus musculus expressed sequence AL024210 (AL024210), mRNA [NM_134052]	NM_134052	-1.10222
Rearranged L-myc fusion sequence	BC006775	-1.44726
Mus musculus trophinin (Tro), mRNA [NM_019548]	NM_019548	-1.01301
Mus musculus olfactory receptor 430 (Olfr430), mRNA [NM_146718]	NM_146718	-1.00608
Tripartite motif protein 46	AY251388	1.05896
Mus musculus zinc finger protein 260 (Zfp260), mRNA [NM_011981]	NM_011981	1.01017
Mus musculus RIKEN cDNA 0610033E06 gene (0610033E06Rik), mRNA [NM_053215]	NM_053215	1.05964
Mus musculus hypoxanthine guanine phosphoribosyl transferase (Hprt), mRNA [NM_013556]	NM_013556	-1.40354
RIKEN cDNA 1110003H10 gene	BC064456	-1.15327
Mus musculus ATPase, H+ transporting, V0 subunit (Atp6v0e), mRNA [NM_025272]	NM_025272	-1.06624
Mus musculus olfactory receptor 1495 (Olfr1495), mRNA [NM_146344]	NM_146344	1.02311
Open reading frame 18	AF116911	-1.31081
Mus musculus Rab6 interacting protein 1 (Rab6ip1), mRNA [NM_021494]	NM_021494	-1.0759
H2A histone family, member V	AK021267	-1.08172
Mus musculus olfactory receptor 1297 (Olfr1297), mRNA [NM_146888]	NM_146888	-1.02353
Hematopoietic cell transcript 1	AJ242831	1.0787
Mus musculus acyl-CoA synthetase long-chain family member 4 (Acsl4), transcript [NM_019477]	NM_019477	-1.01587
Mus musculus nuclear autoantigenic sperm protein (histone-binding) (Nasp), mRNA [NM_016777]	NM_016777	-1.07775
Mus musculus phospholipase A2, group IVA (cytosolic, calcium-dependent) (Plaa), mRNA [NM_008869]	NM_008869	1.01599
Mus musculus protocadherin alpha 6 (Pcdha6), mRNA [NM_007767]	NM_007767	-1.07559
CDNA sequence BC013712	BC013712	-1.2123
9 days embryo whole body cDNA, RIKEN full-length enriched library, clone:D031003, mRNA [AK050994]	AK050994	1.29073
RIKEN cDNA 2700078E11 gene	AK019216	-1.11669
Mus musculus coproporphyrinogen oxidase (Cpox), mRNA [NM_007757]	NM_007757	-1.4202
Mus musculus CDC14 cell division cycle 14 homolog B (S. cerevisiae) (Cdc14b), mRNA [NM_172587]	NM_172587	1.01568
Transient receptor potential cation channel, subfamily M, member 1	AF047714	-1.0431
Mus musculus RAD52 homolog B (S. cerevisiae) (Rad52b), mRNA [NM_025654]	NM_025654	-1.11761
Mus musculus expressed sequence AW146242 (AW146242), mRNA [NM_146168]	NM_146168	-1.25187
Expressed sequence AI481772	BC030917	-1.10853
Mus musculus N-acetyltransferase 6 (Nat6), mRNA [NM_019750]	NM_019750	1.01301
Mus musculus RIKEN cDNA 1110003H09 gene (1110003H09Rik), mRNA [NM_023464]	NM_023464	-1.01568
Mus musculus kallikrein 13 (Klk13), mRNA [NM_010115]	NM_010115	-1.44959
Mus musculus opsin 5 (Opn5), mRNA [NM_181753]	NM_181753	-1.13545
Uroplakin 1A	AK004014	1.22337
Mus musculus olfactory receptor 703 (Olfr703), mRNA [NM_146596]	NM_146596	-1.00453
Mus musculus cDNA sequence BC005624 (BC005624), mRNA [NM_144885]	NM_144885	1.05162
Mus musculus interleukin 1 family, member 7 (Il1f10), mRNA [NM_153077]	NM_153077	1.18814
RIKEN cDNA 4930402H24 gene	AK089462	-1.21933
Mus musculus procollagen, type XIII, alpha 1 (Col13a1), mRNA [NM_007731]	NM_007731	1.01204
Mus musculus nerve growth factor receptor (TNFR superfamily, member 16) (Nfr1), mRNA [NM_033217]	NM_033217	1.0341
Mus musculus G protein-coupled receptor 83 (Gpr83), mRNA [NM_010287]	NM_010287	1.00718

E2F transcription factor 5	X86925	-1.00473
Mus musculus X-linked myotubular myopathy gene 1 (Mtm1), mRNA [NM_019926]	NM_019926	-1.05605
Mus musculus glucagon receptor (Gcgr), mRNA [NM_008101]	NM_008101	1.09666
Mus musculus retinoblastoma-associated protein 140 (Rap140-pending), mRNA [XM_127656]	XM_127656	1.45769
RIKEN cDNA 4921517B04 gene	AK083236	-1.11649
Mus musculus vomeronasal 1 receptor, H20 (V1rh20), mRNA [NM_134243]	NM_134243	-1.02841
Mus musculus zinc finger protein 422 (Zfp422), mRNA [NM_026057]	NM_026057	-1.19373
Mus musculus nuclear receptor coactivator 4 (Nco4), mRNA [NM_019744]	NM_019744	-1.31623
Mus musculus peroxiredoxin 2 (Prdx2), mRNA [NM_011563]	NM_011563	-1.14749
Mus musculus muscleblind-like 3 (Drosophila) (Mbnl3), mRNA [NM_134163]	NM_134163	-1.03784
Mus musculus tribbles homolog 3 (Drosophila) (Trib3), mRNA [NM_144554]	NM_144554	-1.01342
Mus musculus forkhead box K1 (Foxk1), transcript variant 2, mRNA [NM_010812]	NM_010812	1.19249
Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2 (Ndu)	NM_010885	-1.4641
Mus musculus RIKEN cDNA 1810059G22 gene (1810059G22Rik), mRNA [NM_026325]	NM_026325	-1.00205
Mus musculus protocadherin beta 5 (Pcdhb5), mRNA [NM_053130]	NM_053130	-1.04539
Mus musculus bombesin-like receptor 3 (Brs3), mRNA [NM_009766]	NM_009766	1.03233
RIKEN cDNA 3300002I08 gene	AK087406	-1.00661
TWIST neighbor	AK016638	-1.15497
RIKEN cDNA 4930571C24 gene	AK019803	-1.08786
Mus musculus breast carcinoma amplified sequence 1 (Bcas1), mRNA [NM_029815]	NM_029815	-1.09309
Mus musculus cDNA sequence BC006874 (BC006874), mRNA [NM_145604]	NM_145604	-1.30231
Mus musculus RIKEN cDNA 3110048E14 gene (3110048E14Rik), transcript variant 1, mRNA [NM_133750]	NM_133750	-1.09686
Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 1A (Ppp1r1a)	NM_021391	-1.22192
Mus musculus mbt domain containing 1 (Mbd1), mRNA [NM_134012]	NM_134012	-1.06144
Replication factor C (activator 1) 5	AK011489	-1.0582
Mus musculus elongation factor RNA polymerase II (EII), mRNA [NM_007924]	NM_007924	1.08825
RIKEN cDNA 2610030H06 gene	AK045401	-1.25821
Large tumor suppressor 2	BC053028	-1.17994
Mus musculus Fas-activated serine/threonine kinase (Fastk), mRNA [NM_023229]	NM_023229	1.07077
Mus musculus RIKEN cDNA 5730402C02 gene (5730402C02Rik), mRNA [NM_027442]	NM_027442	-1.15543
Chromobox homolog 6	AK017510	1.00864
Mus musculus growth differentiation factor 8 (Gdf8), mRNA [NM_010834]	NM_010834	-1.18803
Mus musculus olfactory receptor 695 (Olf695), mRNA [NM_146598]	NM_146598	1.00208
Mus musculus isocitrate dehydrogenase 2 (NADP+), mitochondrial (Idh2), mRNA [NM_173011]	NM_173011	1.16232
Mus musculus beta-glucuronidase (Gus), mRNA [NM_010368]	NM_010368	-1.10701
Mus musculus E74-like factor 2 (Elf2), mRNA [NM_023502]	NM_023502	-1.32903
Mus musculus coagulation factor II (thrombin) receptor-like 2 (F2rl2), mRNA [NM_010170]	NM_010170	1.03508
Mus musculus SAC1 (supressor of actin mutations 1, homolog)-like (S. cerevisiae)	NM_030692	-1.45284
Mus musculus RIKEN cDNA 2310010M24 gene (2310010M24Rik), mRNA [NM_027990]	NM_027990	-1.02894
Mus musculus RIKEN cDNA 2810427I04 gene (2810427I04Rik), mRNA [NM_028146]	NM_028146	-1.13502
Mus musculus 2 days pregnant adult female ovary cDNA, RIKEN full-length enriched library	AK054316	1.14317
Transient receptor potential cation channel, subfamily C, member 2	AK040538	1.03711
Mus musculus leucine-rich repeat-containing 5 (Lrrc5), mRNA [NM_178701]	NM_178701	-1.22255
Mus musculus exostoses (multiple) 1 (Ext1), mRNA [NM_010162]	NM_010162	1.04323
Mus musculus S100 calcium binding protein A4 (S100a4), mRNA [NM_011311]	NM_011311	-1.19748
Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 6 (Arabidopsis)	NM_012002	-1.04121
Mus musculus ryanodine receptor 3 (Ryr3), mRNA [NM_177652]	NM_177652	-1.02287
Mus musculus RIKEN cDNA 2410066E13 gene (2410066E13Rik), mRNA [NM_026629]	NM_026629	1.06361
RIKEN cDNA 5430408I23 gene	AK010831	-1.26354
Mus musculus inducible T-cell co-stimulator (Icos), mRNA [NM_017480]	NM_017480	1.08294
Mus musculus transmembrane 4 superfamily member 9 (Tm4sf9), mRNA [NM_019571]	NM_019571	1.00224
hypothetical protein MGC27770	NM_145986	1.09689

Mus musculus calpain 12 (Capn12), mRNA [NM_021894]	NM_021894	1.0587
RIKEN cDNA A230056J06 gene	NM_023328	-1.31159
Mus musculus transforming growth factor alpha (Tgfa), mRNA [NM_031199]	NM_031199	-1.02092
RIKEN cDNA 9630044O09 gene	AK036190	-1.05924
Mus musculus similar to T cell antigen receptor (LOC381765), mRNA [XM_3557 XM_355761]		-1.11954
Mus musculus olfactory receptor 1472 (Olfr1472), mRNA [NM_146690]	NM_146690	1.14954
Mus musculus procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3 (Plod3), mRNA [NM_011962]	NM_011962	1.17028
DNA segment, Chr 1, ERATO Doi 396, expressed	AK077039	-1.59568
Mus musculus membrane-spanning 4-domains, subfamily A, member 6D (Ms4a)	NM_026835	-1.78039
Mus musculus serine protease inhibitor-like, with Kunitz and WAP domains 1 (ej)	NM_029325	1.10839
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK019737		1.01764
Mus musculus trichorhinophalangeal syndrome I (human) (Trps1), mRNA [NM_032000]	NM_032000	-1.0583
Mus musculus heat shock protein 4 (Hspa4), mRNA [NM_008300]	NM_008300	-1.39
UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase	AK045417	-1.14673
Mus musculus RIKEN cDNA 1810003N24 gene (1810003N24Rik), mRNA [NM_025443]	NM_025443	-1.5052
Mus musculus RIKEN cDNA 2410166I05 gene (2410166I05Rik), mRNA [NM_029759]	NM_029759	-1.34048
RIKEN cDNA 4930563E22 gene	AK044443	1.09384
Mus musculus 10 days neonate cortex cDNA, RIKEN full-length enriched library	AK043558	1.07789
Mus musculus interleukin 17F (Il17f), mRNA [NM_145856]	NM_145856	1.19013
Mus musculus sialyltransferase 7 ((alpha-N-acetylneuraminyl 2,3-betagalactosyltransferase)	NM_012028	1.01805
RIKEN cDNA 2700008B19 gene	BC003942	-1.04954
Mus musculus synaptotagmin 2 binding protein (Synj2bp), mRNA [NM_025292]	NM_025292	-1.16249
brain protein 17	NM_019999	1.08219
Mus musculus inosine triphosphatase (nucleoside triphosphate pyrophosphatase)	NM_025922	-1.04193
Mus musculus RIKEN cDNA 1810004F21 gene (1810004F21Rik), mRNA [NM_026911]	NM_026911	-1.16979
Cell division cycle 25 homolog A (S. cerevisiae)	NM_007658	1.03117
Mus musculus RIKEN cDNA 1810046J19 gene (1810046J19Rik), mRNA [NM_025559]	NM_025559	-1.14893
RIKEN cDNA 2310022M17 gene	BE984791	-1.19123
Mus musculus asparagine-linked glycosylation 12 homolog (yeast, alpha-1,6-mannosyltransferase)	NM_145477	1.07815
Mus musculus expressed sequence AU022521 (AU022521), mRNA [NM_178925]	NM_178925	-1.70952
Mus musculus electron transferring flavoprotein, dehydrogenase (Etfhd)	NM_025794	-1.46952
Mus musculus RIKEN cDNA 2900070E19 gene (2900070E19Rik), mRNA [NM_028419]	NM_028419	-1.11581
Mus musculus olfactory receptor 1298 (Olfr1298), mRNA [NM_146886]	NM_146886	1.04347
Mus musculus immunity-associated protein (Imap38), transcript variant 1, mRNA [NM_008376]	NM_008376	-1.26644
Mus musculus hypothetical protein A330102K04 (A330102K04), mRNA [XM_28 XM_283314]		-1.2872
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 55 (Ddx55), mRNA [NM_026409]	NM_026409	-1.36982
Mus musculus gene trap locus 6 (Gtl6), mRNA [NM_133975]	NM_133975	-1.28345
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK016580		1.01862
Mus musculus succinate-Coenzyme A ligase, ADP-forming, beta subunit (Sucla)	NM_011506	-2.05138
Mus musculus hypothetical protein A330079D15 (A330079D15), mRNA [NM_177888]	NM_177888	-1.02502
RIKEN cDNA 2610021I23 gene	AK011505	-1.01117
Mus musculus potassium channel tetramerisation domain containing 10 (Kctd10)	NM_026145	1.10264
Mus musculus glypican 6 (Gpc6), mRNA [NM_011821]	NM_011821	1.0797
Similar to ATPase, vacuolar, 14 kD	AK006873	1.10049
Mus musculus hypothetical protein D430043L16 (D430043L16), mRNA [XM_20 XM_205522]		1.14351
Mus musculus solute carrier family 17 (sodium phosphate), member 3 (Slc17a3), mRNA [NM_134069]	NM_134069	-1.04859
CDNA clone MGC:7386 IMAGE:3487872, complete cds	BC002189	-1.07772
Mus musculus ubiquitin specific protease 52 (Usp52), mRNA [NM_133992]	NM_133992	-1.0097
submandibular gland protein C	NM_198927	-1.11009
Mus musculus methylmalonyl-Coenzyme A mutase (Mut), mRNA [NM_008650]	NM_008650	-1.14287
Mus musculus H2A histone family, member X (H2afx), mRNA [NM_010436]	NM_010436	-1.04294
TPA regulated locus	AK007181	2.27471

Mus musculus potassium voltage-gated channel, subfamily G, member 3 (Kcng)	NM_153512	1.02062
Mus musculus kit ligand (Kitl), mRNA [NM_013598]	NM_013598	-1.55473
Mus musculus cytochrome P450, family 3, subfamily a, polypeptide 11 (Cyp3a1)	NM_007818	1.00031
Mus musculus apolipoprotein H (ApoH), mRNA [NM_013475]	NM_013475	-1.01825
Mus musculus tumor necrosis factor (ligand) superfamily, member 9 (Tnfsf9), mRNA [NM_009404]	NM_009404	-1.04418
Mus musculus fibroblast growth factor 23 (Fgf23), mRNA [NM_022657]	NM_022657	1.05623
DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 31	BC066017	-1.17235
Mus musculus ATPase, class I, type 8B, member 1 (Atp8b1), mRNA [NM_00100148]	NM_00100148	1.20657
Myosin XVIIIb	AK077135	-1.07771
RIKEN cDNA 9130024F11 gene	AK020268	1.11863
Mus musculus biliverdin reductase A (Blvra), mRNA [NM_026678]	NM_026678	-1.27809
Mus musculus RIKEN cDNA 0610033H09 gene (0610033H09Rik), mRNA [NM_025338]	NM_025338	-1.11055
Mus musculus AT rich interactive domain 3B (Bright like) (Arid3b), mRNA [NM_019689]	NM_019689	1.07781
CLIP associating protein 2	AJ276961	-1.14382
Mus musculus olfactory receptor 1043 (Olfr1043), mRNA [NM_146577]	NM_146577	1.10344
Mus musculus peptidyl arginine deiminase, egg and embryo abundant (Padi5), mRNA [NM_153106]	NM_153106	1.02425
AV030849 Mus musculus adult C57BL/6J cerebellum Mus musculus cDNA clone AV030849	AV030849	-1.34535
M. musculus mRNA for external transcribed spacer (partial) B2 element (Rn18s)	X56974	3.2173
RIKEN cDNA 4930519B02 gene	AK015837	-1.22054
Mus musculus 13 days embryo heart cDNA, RIKEN full-length enriched library, RIKEN cDNA 4930511P09 gene	AK052253	-1.08208
RIKEN cDNA 4930511P09 gene	AK018691	-1.10067
Mus musculus olfactory receptor 512 (Olfr512), mRNA [NM_146724]	NM_146724	1.01215
Mus musculus leishmanolysin-like (metallopeptidase M8 family) (Lm1n), mRNA [NM_172823]	NM_172823	1.05467
ST3 beta-galactoside alpha-2,3-sialyltransferase 6	NM_018784	-1.59292
MARVEL (membrane-associating) domain containing 1	AK081212	1.3471
Mus musculus RIKEN cDNA A530050D06 gene (A530050D06Rik), mRNA [XM_203596]	XM_203596	-1.0588
Mus musculus neutrophil cytosolic factor 1 (Ncf1), mRNA [NM_010876]	NM_010876	-1.14534
AT rich interactive domain 5B (Mrf1 like)	NM_023598	1.92351
Mus musculus stabilin 1 (Stab1), mRNA [NM_138672]	NM_138672	1.01165
Mus musculus sodium channel, voltage-gated, type IV, alpha polypeptide (Scn4)	NM_133199	1.07962
Mus musculus solute carrier family 26, member 4 (Slc26a4), mRNA [NM_011866]	NM_011866	-1.24396
Mus musculus zinc finger protein 467 (Zfp467), mRNA [NM_020589]	NM_020589	1.02564
RIKEN cDNA 1500041B16 gene	AK014216	-1.22169
RIKEN cDNA 2310010I16 gene	AK008733	1.09843
Mus musculus aortic preferentially expressed gene 1 (Apeg1), mRNA [NM_007463]	NM_007463	1.08076
Mus musculus Wolf-Hirschhorn syndrome candidate 1-like 1 (human) (Whsc1l1)	NM_00100173	1.03035
RIKEN cDNA 4430402I18 gene	AK016572	-1.30221
Mus musculus transcription factor 12 (Tcf12), mRNA [NM_011544]	NM_011544	-1.36188
Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglactosaminyltransferase 1	NM_015737	1.04193
Unknown		-1.15427
RIKEN cDNA 2810443J12 gene	AK032370	-1.04441
Mus musculus TBC1 domain family, member 8 (Tbc1d8), mRNA [NM_018775]	NM_018775	1.03341
Mus musculus mitochondrial ribosomal protein L2 (Mrpl2), mRNA [NM_025302]	NM_025302	-1.02511
Mus musculus 3'-phosphoadenosine 5'-phosphosulfate synthase 2 (Papss2), mRNA [NM_011864]	NM_011864	1.10918
Mus musculus estrogen-related receptor gamma (Esrrg), mRNA [NM_011935]	NM_011935	1.40059
Mus musculus striamin (Strm), mRNA [NM_011501]	NM_011501	-1.02041
Mus musculus chloride intracellular channel 5 (Clic5), mRNA [NM_172621]	NM_172621	-1.08039
Mus musculus Janus kinase 3 (Jak3), mRNA [NM_010589]	NM_010589	1.06138
Mus musculus hypothetical protein B230384L07 (B230384L07), mRNA [NM_177763]	NM_177763	1.12296
Mus musculus ras homolog gene family, member Q (Rhoq), mRNA [NM_145491]	NM_145491	-1.18676
Tensin-like SH2 domain containing 1	AK089717	1.12946
Mus musculus discoidin domain receptor family, member 1 (Ddr1), mRNA [NM_007584]	NM_007584	-1.3374

Mus musculus TAF15 RNA polymerase II, TATA box binding protein (TBP)-assoc	NM_027427	-2.86312
Mus musculus acyloxyacyl hydrolase (Aoah), mRNA [NM_012054]	NM_012054	1.10124
RIKEN cDNA 4732419C18 gene	AK076318	1.51373
Mus musculus RIKEN cDNA A330049M08 gene (A330049M08Rik), mRNA [NM	NM_145555	1.17412
HMT1 hnRNP methyltransferase-like 6 (<i>S. cerevisiae</i>)	AK034732	-1.08742
Interleukin 1 family, member 9	AK081783	-1.04797
Mus musculus olfactory receptor 52 (Olf52), mRNA [NM_146583]	NM_146583	1.09997
Mus musculus B6-derived CD11 +ve dendritic cells cDNA, RIKEN full-length eni	AK089315	1.03387
Ribonuclease T2	AK029149	-1.00183
M.musculus mRNA for spalt transcription factor.	X97581	-1.06081
Mus musculus RIKEN cDNA 9430097D07 gene (9430097D07Rik), mRNA [NM_	NM_175679	1.04412
Mus musculus kin of IRRE like 3 (<i>Drosophila</i>) (Kirrel3), mRNA [NM_026324]	NM_026324	1.11952
Transmembrane protein 43	NM_028766	-1.35959
Mus musculus actin related protein 2/3 complex, subunit 1B (Arpc1b), mRNA [N	NM_023142	1.0851
Mus musculus zinc finger protein 503 (Zfp503), mRNA [NM_145459]	NM_145459	-1.54852
Mus musculus lipin 3 (Lpin3), mRNA [NM_022883]	NM_022883	1.08178
OLFACTORY RECEPTOR GA_X6K02T2PBj9-6394126-6393197. [Source:SPTREMBL;Acc:Q		1.08578
RIKEN cDNA 4930510E17 gene	AK015742	1
Mus musculus coatomer protein complex, subunit gamma 2 (Copg2), mRNA [NI	NM_017478	-1.40739
Mus musculus CD47 antigen (Rh-related antigen, integrin-associated signal trar	NM_010581	-1.46678
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 41 (Ddx41), mRNA [NI	NM_134059	1.08176
Mus musculus RIKEN cDNA 2410011G03 gene (2410011G03Rik), mRNA [NM_	NM_025551	-1.59704
Mus musculus olfactory receptor 1449 (Olf1449), mRNA [NM_146303]	NM_146303	-1.02071
Mus musculus RIKEN cDNA 1810021J13 gene (1810021J13Rik), mRNA [NM_	NM_025464	-1.14997
Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 14A (Ppp1r1	NM_026731	1.00931
Mus musculus SPARC-like 1 (mast9, hevin) (Sparcl1), mRNA [NM_010097]	NM_010097	-1.37673
Mus musculus coagulation factor X (F10), mRNA [NM_007972]	NM_007972	-1.00252
Mus musculus claudin 10 (Cldn10), transcript variant 2, mRNA [NM_021386]	NM_021386	-1.26826
Mus musculus T-box 6 (Tbx6), mRNA [NM_011538]	NM_011538	1.01838
Mus musculus homeo box D11 (Hoxd11), mRNA [NM_008273]	NM_008273	1.1122
Mus musculus GLI-Kruppel family member HKR2 (Hkr2), mRNA [NM_0010014	NM_00100144	-1.0788
Mus musculus ELOVL family member 7, elongation of long chain fatty acids (ye:	NM_029001	1.09209
RIKEN cDNA 1700020M16 gene	AK032854	-1.00218
RIKEN cDNA 1810061M12 gene	AK129273	1.04223
Secernin 3	BC015296	-2.38335
Mus musculus RIKEN cDNA 1810011O10 gene (1810011O10Rik), mRNA [NM_	NM_026931	-1.57325
Mus musculus blocked early in transport 1 homolog (<i>S. cerevisiae</i>) (Bet1), mRN	NM_009748	-1.42398
RIKEN cDNA 1700006H03 gene	AK005675	1.02152
CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phospl	NM_146012	-1.19345
Mus musculus cDNA sequence BC025446 (BC025446), mRNA [NM_146058]	NM_146058	1.06657
RIKEN cDNA D830041C10 gene	AK052918	1.08255
Mus musculus guanine monphosphate synthetase (Gmps), mRNA [XM_130877	XM_130877	-1.31224
Mus musculus annexin A4 (Anxa4), mRNA [NM_013471]	NM_013471	-1.07005
RIKEN cDNA E430027O22 gene	AK088840	-1.04785
Mus musculus urotensin 2 receptor (Uts2r), mRNA [NM_145440]	NM_145440	1.02429
Mus musculus RIKEN cDNA 1200009I06 gene (1200009I06Rik), mRNA [NM_0:	NM_028807	-1.0701
Mus musculus RIKEN cDNA 2310046G15 gene (2310046G15Rik), mRNA [NM_	NM_029614	1.04223
Mus musculus 5-azacytidine induced gene 1 (Azi1), mRNA [NM_009734]	NM_009734	1.02046
Mus musculus plastin 3 (T-isoform) (Pls3), mRNA [NM_145629]	NM_145629	-1.60177
Mus musculus histidyl-tRNA synthetase (Hars), mRNA [NM_008214]	NM_008214	-1.12673
R3H domain (binds single-stranded nucleic acids)	AK122191	-1.17275
RIKEN cDNA D630040G17 gene	AK052736	1.02067

Mus musculus DOT1-like, histone H3 methyltransferase (<i>S. cerevisiae</i>) (Dot1l), taxilin	NM_199322 AK078192	-1.01076 1.08966
Mus musculus nucleoporin 153 (Nup153), mRNA [NM_175749]	NM_175749	-1.12284
Mus musculus ral guanine nucleotide dissociation stimulator-like 2 (Rgl2), mRNA [NM_009059]	NM_009059	1.24237
Mus musculus chromosome segregation 1-like (<i>S. cerevisiae</i>) (Cse1l), mRNA [NM_023565]	NM_023565	-1.06762
Mus musculus RIKEN cDNA 9130017A15 gene (9130017A15Rik), mRNA [NM_177242]	NM_177242	-1.24296
Mus musculus REV3-like, catalytic subunit of DNA polymerase zeta RAD54 like	NM_011264	-1.15773
Mus musculus complement component 1, q subcomponent, receptor 1 (C1qr1), RIKEN cDNA 2010109N14 gene	NM_010740 AK008369	-1.16612 -1.11025
Mus musculus DiGeorge syndrome critical region gene 6 (Dgcr6), mRNA [NM_010047]	NM_010047	-1.02835
Nucleoporin 98	AF201386	-1.11482
Mus musculus non-selective cation channel 1 (Nscn1), mRNA [NM_010940]	NM_010940	1.11671
Mus musculus small proline rich-like 1 (Sprl1), mRNA [NM_033175]	NM_033175	-1.07664
RIKEN cDNA 2600014M03 gene	NM_178620	1.14614
Mus musculus serine/arginine-rich protein specific kinase 2 (Srpk2), mRNA [NM_009274]	NM_009274	-1.01518
RIKEN cDNA 4832441B07 gene	NM_029931	-1.14416
Protocadherin 9	AK042546	-1.0179
Mus musculus Hermansky-Pudlak syndrome 1 homolog (human) (Hps1), mRNA [NM_019424]	NM_019424	1.21139
Ribosomal protein S6 kinase polypeptide 1	AK016328	-1.22248
RIKEN cDNA 4930403J07 gene	AK015063	-1.00401
RIKEN cDNA A230105L22 gene	AK020714	1.07584
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 28 (Ddx28), mRNA [NM_028038]	NM_028038	1.21701
Mus musculus RIKEN cDNA 3110001I22 gene (3110001I22Rik), mRNA [NM_025653]	NM_025653	-1.13905
Mus musculus defensin beta 5 (Defb5), mRNA [NM_030734]	NM_030734	-1.00502
AFG3(ATPase family gene 3)-like 2 (yeast)	BC036999	-1.02114
Mus musculus interferon regulatory factor 3 (Irf3), mRNA [NM_016849]	NM_016849	-1.10347
Mus musculus S-phase kinase-associated protein 2 (p45) (Skp2), mRNA [NM_013787]	NM_013787	-1.16593
Mus musculus Ly1 antibody reactive clone (Lyar), mRNA [NM_025281]	NM_025281	-1.19745
RIKEN cDNA 2600011E07 gene	AK032651	-1.00182
Lipin 2	AK012110	-1.39274
Mus musculus monoamine oxidase A (Maoa), mRNA [NM_173740]	NM_173740	-1.43058
Titin	AK010153	1.10082
Mus musculus prominin 1 (Prom1), mRNA [NM_008935]	NM_008935	-1.34854
Mus musculus heterogeneous nuclear ribonucleoprotein methyltransferase-like	NM_133182	-1.19874
Mus musculus RIKEN cDNA 2810002I04 gene (2810002I04Rik), mRNA [NM_172414]	NM_172414	-1.01532
Unknown		-1.05558
RIKEN cDNA 2310057N15 gene	NM_027170	1.09326
Mus musculus RIKEN cDNA 5730537D05 gene (5730537D05Rik), mRNA [NM_027495]	NM_027495	1.00684
Mus musculus DNA segment, Chr 4, ERATO Doi 89, expressed (D4Ert89e), mRNA [NM_028053]	NM_028053	-1.29653
Mus musculus endothelin 1 (Edn1), mRNA [NM_010104]	NM_010104	-1.44453
Mus musculus interferon alpha family, gene 11 (Ifna11), mRNA [NM_008333]	NM_008333	1
Mus musculus RIKEN cDNA 9230118O15 gene (9230118O15Rik), mRNA [NM_183127]	NM_183127	1.03444
Mus musculus ubiquitin C (Ubc), mRNA [NM_019639]	NM_019639	1.13812
Mus musculus myeloid cell leukemia sequence 1 (Mcl1), mRNA [NM_008562]	NM_008562	-1.21719
RIKEN cDNA D230007K08 gene	AK084199	1.07004
Mus musculus Shc SH2-domain binding protein 1 (Shcbp1), mRNA [NM_011361]	NM_011361	-1.12971
Mus musculus expressed sequence AI481214 (AI481214), mRNA [NM_054098]	NM_054098	-1.1335
Mus musculus amyloid beta (A4) precursor protein-binding, family B, member 1	NM_009685	1.31386
Mus musculus RIKEN cDNA 9530025L16 gene (9530025L16Rik), mRNA [NM_175256]	NM_175256	-1.0423
Mus musculus RIKEN cDNA 2310051M13 gene (2310051M13Rik), mRNA [NM_027344]	NM_027344	-1.05116
Mus musculus nuclear receptor subfamily 1, group I, member 2 (Nr1i2), mRNA [NM_010936]	NM_010936	1.0173
Erythrocyte protein band 4.1-like 1	AF061283	1.15142

RIKEN cDNA 4732418C07 gene	BC028320	-1.09927
Mus musculus RIKEN cDNA 2610001E17 gene (2610001E17Rik), mRNA [NM_	NM_026439	1.0139
Mus musculus cDNA sequence BC022146 (BC022146), mRNA [NM_144872]	NM_144872	-1.01785
RIKEN cDNA 1500019G21 gene	AK013263	1.06701
Mus musculus carnitine deficiency-associated gene expressed in ventricle 1 (Cc	NM_009879	-1.30263
CD200 receptor 3	AK014671	-1.03368
RIKEN cDNA 1200007C13 gene	AK004627	1.03674
Mus musculus zinc and ring finger 4 (Znrf4), mRNA [NM_011483]	NM_011483	1.02469
Phospholipase A2, group III	AK033572	1.13585
Mus musculus RIKEN cDNA 2500002E12 gene (2500002E12Rik), mRNA [NM_	NM_175155	1.0541
Mus musculus vitamin D receptor interacting protein (Vdrip), mRNA [NM_02611	NM_026119	-1.24011
AF073968 olfactory receptor {Mus musculus domesticus}, complete [TC986451]		1.05202
Mus musculus A kinase (PRKA) anchor protein (yotiao) 9 (Akap9), mRNA [NM_	NM_194462	-1.08124
Mus musculus hypothetical protein 3830431G21 (3830431G21), mRNA [XM_12	XM_126991	-1.19421
Mus musculus pancreatitis-associated protein (Pap), mRNA [NM_011036]	NM_011036	1.01193
Mus musculus superoxide dismutase 2, mitochondrial (Sod2), mRNA [NM_0136	NM_013671	-1.20603
Mus musculus casein kinase II, beta subunit (Csnk2b), mRNA [NM_009975]	NM_009975	1.00793
Mus musculus expressed sequence AI661017 (AI661017), mRNA [NM_172514;	NM_172514	-1.27139
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK005767		1.0191
Mus musculus outer dense fiber of sperm tails 3 (Odf3), mRNA [NM_027019]	NM_027019	-1.06077
Histocompatibility 2, M region locus 2	AY302216	1.26592
Mus musculus RIKEN cDNA 2310040A13 gene (2310040A13Rik), mRNA [NM_	NM_027149	-1.266
Mus musculus ring finger protein 31 (Rnf31), mRNA [NM_194346]	NM_194346	1.05156
Mus musculus low density lipoprotein receptor-related protein 1 (Lrp1), mRNA [I	NM_008512	1.22689
Mus musculus RIKEN cDNA 4921517D21 gene (4921517D21Rik), mRNA [NM_	NM_026338	1.02298
RIKEN cDNA 2310007H09 gene	AK009207	-1.08025
Unknown		1.16386
Mus musculus syndecan 2 (Sdc2), mRNA [NM_008304]	NM_008304	-1.121
Mus musculus cyclin-dependent kinase 4 (Cdk4), mRNA [NM_009870]	NM_009870	1.0405
Mus musculus LIM homeobox protein 1 (Lhx1), mRNA [NM_008498]	NM_008498	1.10205
Proline rich protein HaellI subfamily 1	M19419	1.10259
Mus musculus nuclear fragile X mental retardation protein interacting protein (Ni	NM_013745	-1.28137
RIKEN cDNA 1700034O15 gene	BC048592	1.0966
Mus musculus sphingomyelin phosphodiesterase 3, neutral (Smpd3), mRNA [NI	NM_021491	-1.05275
Unknown		1.05068
Mus musculus solute carrier family 4 (anion exchanger), member 2 (Slc4a2), mF	NM_009207	-1.13031
NADH dehydrogenase (ubiquinone) 1 beta subcomplex 4	NM_026610	-1.13649
Sine oculis-related homeobox 5 homolog (Drosophila)	D83146	1.16655
hypothetical protein A230106N23	NM_177838	1.061
Alpha-kinase 2	AY044451	1.02945
Mus musculus zinc finger and BTB domain containing 1 (Zbtb1), mRNA [NM_17	NM_178744	-1.29849
Mus musculus RIKEN cDNA 1700025J14 gene (1700025J14Rik), mRNA [NM_	NM_026450	1.01756
Nitrilase 1	NM_012049	-1.24986
Mus musculus olfactory receptor 904 (Olfr904), mRNA [NM_146801]	NM_146801	1.14389
Mus musculus colony stimulating factor 2 receptor, alpha, low-affinity (granulocy	NM_009970	-1.08442
WAP, FS, Ig, KU, and NTR-containing protein 1	BC026460	-1.12554
Mus musculus solute carrier family 36 (proton/amino acid symporter), member 2	NM_153170	-1.19994
Mus musculus sorting nexin 2 (Snx2), mRNA [NM_026386]	NM_026386	-1.31378
Mus musculus fidgetin-like 1 (Fignl1), mRNA [NM_021891]	NM_021891	1.0439
Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 7a (Ara	NM_012003	-1.03845
Mus musculus hippocampus abundant gene transcript 1 (Hiat1), mRNA [NM_00	NM_008246	-1.50978
Mus musculus expressed sequence AW544865 (AW544865), mRNA [NM_178	NM_178918	-1.02161

Mus musculus outer dense fiber of sperm tails 2 (Odf2), mRNA [NM_013615]	NM_013615	-1.04964
Mus musculus 4 days neonate male adipose cDNA, RIKEN full-length enriched	AK046687	1.13476
Mus musculus tuftelin interacting protein 11 (Tfip11), mRNA [NM_018783]	NM_018783	-1.04062
RIKEN cDNA 4833413E03 gene	AK019514	1.00958
Olfactory receptor 1182	CB173022	1.04294
Mus musculus a disintegrin and metalloprotease domain 18 (Adam18), mRNA [NM_010084]	NM_010084	-1.2128
Mus musculus RIKEN cDNA 1810057E01 gene (1810057E01Rik), mRNA [NM_030749]	NM_030749	-1.18904
Mus musculus regulator of G-protein signaling 3 (Rgs3), mRNA [NM_134257]	NM_134257	1.04228
Neural cell adhesion molecule 1	X15052	1.12462
RIKEN cDNA 5730409G15 gene	AK017533	-1.0195
Mus musculus mitogen-activated protein kinase 4 (Mapk4), mRNA [NM_172632]	NM_172632	-1.02055
Mus musculus AE binding protein 1 (Aebp1), mRNA [NM_009636]	NM_009636	1.18058
Mus musculus S100 calcium binding protein A5 (S100a5), mRNA [NM_011312]	NM_011312	-1.03088
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK016792	AK016792	1.08593
RIKEN cDNA 2310079P12 gene	AK010234	-1.09015
Mus musculus RIKEN cDNA A830039B04 gene (A830039B04Rik), mRNA [NM_177045]	NM_177045	-1.19534
Mus musculus RIKEN cDNA 1200011I18 gene (1200011I18Rik), mRNA [NM_026177]	NM_026177	-1.04794
Mus musculus excision repair cross-complementing rodent repair deficiency, co	NM_015769	-1.07826
Mus musculus endometrial bleeding associated factor (Ebaf), mRNA [NM_177099]	NM_177099	1.00221
Pleckstrin homology domain containing, family A member 6	BC025841	-1.18159
OR_2o32G05_010529.y1 Adult mouse olfactory epithelium library Mus musculu	CB174052	-1.02907
Mus musculus procollagen, type V, alpha 3 (Col5a3), mRNA [NM_016919]	NM_016919	1.00651
Mus musculus myelin transcription factor 1 (Myt1), mRNA [NM_008665]	NM_008665	1.0564
Mus musculus RIKEN cDNA 2310004K06 gene (2310004K06Rik), mRNA [NM_020050]	NM_020050	-1.23748
Unknown		1.11777
RIKEN cDNA 8030462N17 gene	AK046785	-1.03434
Mus musculus cholinergic receptor, muscarinic 2, cardiac (Chrm2), mRNA [NM_203491]	NM_203491	1.09553
Mus musculus homeodomain interacting protein kinase 1 (Hipk1), mRNA [NM_010432]	NM_010432	1.00978
Mus musculus FERM domain containing 4B (Frmd4b), mRNA [NM_145148]	NM_145148	-1.11397
Mus musculus casein kinase 1, gamma 3 (Csnk1g3), mRNA [NM_152809]	NM_152809	-1.21209
Mus musculus G protein-coupled receptor 77 (Gpr77), mRNA [NM_176912]	NM_176912	-1.09781
Mus musculus RIKEN cDNA 2310015I10 gene (2310015I10Rik), mRNA [NM_198095]	NM_198095	-1.41843
Mus musculus vomeronasal 1 receptor, H12 (V1rh12), mRNA [NM_134237]	NM_134237	1.01769
OLFACTORY RECEPTOR GA_X6K02T2Q125-50409367-50408432. [Source:SPTREMBL;Acc		1.02281
Mus musculus interleukin 1 alpha (Il1a), mRNA [NM_010554]	NM_010554	1.09223
RIKEN cDNA 0910001A06 gene	AK029846	1.1487
Mus musculus zinc finger protein 455 (Zfp455), mRNA [NM_183156]	NM_183156	-1.12746
Mus musculus T-cell lymphoma breakpoint 1 (Tcl1), mRNA [NM_009337]	NM_009337	1.02305
Mus musculus ubiquitin-conjugating enzyme E2G 2 (Ube2g2), mRNA [NM_019803]	NM_019803	1.05975
Mus musculus RIKEN cDNA 9630046K23 gene (9630046K23Rik), mRNA [NM_172380]	NM_172380	-1.23214
Mus musculus olfactory receptor 208 (Olf208), mRNA [NM_146384]	NM_146384	1.03458
Mus musculus transcription factor A, mitochondrial (Tfam), mRNA [NM_009360]	NM_009360	-1.31816
hypothetical protein 4933414G08	NM_177867	1.21886
Mus musculus RAP1, GTP-GDP dissociation stimulator 1 (Rap1gds1), mRNA [NM_145544]	NM_145544	-1.12063
Mus musculus YTH domain family 2 (Ythdf2), mRNA [NM_145393]	NM_145393	1.00321
Expressed sequence AI851716	BC038250	-1.17098
Mus musculus epiregulin (Ereg), mRNA [NM_007950]	NM_007950	-1.20743
Mus musculus chemokine (C-C motif) ligand 5 (Ccl5), mRNA [NM_013653]	NM_013653	-1.21018
Mus musculus RIKEN cDNA 9430062J17 gene (9430062J17Rik), mRNA [NM_177746]	NM_177746	1.22628
Mus musculus cDNA sequence BC026778 (BC026778), mRNA [NM_198604]	NM_198604	1.10059
A disintegrin-like and metalloprotease (reprolysin type) with thrombospondin typ	AK030699	1.06915
RIKEN cDNA 4933409L06 gene	AK032437	-1.14004

Unknown		1.11781
Hect domain and RLD 3	AK017531	1.2761
RIKEN cDNA 1300013D05 gene	AK013405	1.04105
RIKEN cDNA 2900076A13 gene	D87968	1.0779
Mus musculus heterogeneous nuclear ribonucleoprotein U (Hnrpu), mRNA [NM_016805]		-1.08917
Mus musculus lectin, galactoside-binding, soluble, 3 binding protein (Lgals3bp), NM_011150		-1.05367
Mus musculus serine/threonine kinase 22A (spermiogenesis associated) (Stk22 NM_009435		-1.04746
Mus musculus armadillo repeat gene deleted in velo-cardio-facial syndrome (Ar NM_033474		-1.05958
Mus musculus fragile histidine triad gene (Fhit), mRNA [NM_010210]	NM_010210	1.07968
RIKEN cDNA 4932417I16 gene	AK030046	1.05427
Mus musculus guanine nucleotide binding protein (G protein), gamma 5 subunit NM_010318		-1.02267
Tetratricopeptide repeat domain 21A	AK029952	1.23843
Mus musculus baculoviral IAP repeat-containing 1f (Birc1f), mRNA [NM_010871NM_010871		1.01051
Mus musculus apolipoprotein C-I (Apoc1), mRNA [NM_007469]	NM_007469	-1.0348
Mus musculus cytochrome P450, family 4, subfamily f, polypeptide 13 (Cyp4f13 NM_130882		1.10896
Protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting AK037102		1.00371
Mus musculus RIKEN cDNA 1810009N02 gene (1810009N02Rik), mRNA [NM_026939]		1.27692
Mus musculus calponin 3, acidic (Cnn3), mRNA [NM_028044]	NM_028044	-1.17988
Uncoupling protein 1 (mitochondrial, proton carrier)	NM_009463	-1.1304
Mus musculus homeo box C8 (Hoxc8), mRNA [NM_010466]	NM_010466	1.07574
Mus musculus ELAV (embryonic lethal, abnormal vision, Drosophila)-like 1 (Hu : NM_010485		-1.19431
Mus musculus high mobility group AT-hook 1-like 4 (Hmga1l4), mRNA [NM_023547NM_023547		-1.15206
Mus musculus phosphofructokinase, liver, B-type (Pfk1), mRNA [NM_008826]	NM_008826	1.15367
Mus musculus WD repeat domain 31 (Wdr31), mRNA [NM_023597]	NM_023597	-1.01851
Mus musculus submaxillary gland androgen regulated protein 2 (Smr2), mRNA NM_021289		-1.12133
Mus musculus septin 8 (Sept8), mRNA [NM_033144]	NM_033144	-1.05799
Mus musculus S100 calcium binding protein A6 (calcyclin) (S100a6), mRNA [NM_011313]		-1.03238
Mus musculus potassium large conductance calcium-activated channel, subfam NM_031169		-1.13526
Mus musculus RIKEN cDNA 5730436H21 gene (5730436H21Rik), mRNA [NM_134139]		1.00249
Mus musculus tumor necrosis factor (ligand) superfamily, member 10 (Tnfsf10), NM_009425		-1.19742
Mus musculus 10 day old male pancreas cDNA, RIKEN full-length enriched libr AK007620		-1.13903
Mus musculus RIKEN cDNA 2310067E19 gene (2310067E19Rik), mRNA [NM_172427]		1.02114
Mus musculus MAX gene associated (Mga), mRNA [NM_013720]	NM_013720	1.24979
Mus musculus glutamate receptor, ionotropic, NMDA2A (epsilon 1) (Grin2a), mF NM_008170		-1.00499
Mus musculus N-myc (and STAT) interactor (Nmi), mRNA [NM_019401]	NM_019401	-1.19734
Mus musculus RIKEN cDNA 2010200I23 gene (2010200I23Rik), mRNA [NM_133718]		-2.04479
RIKEN cDNA 4933428M09 gene	AK016974	-1.01314
Mus musculus 3-oxoacid CoA transferase 2A (Oxct2a), mRNA [NM_022033]	NM_022033	1.12793
Mus musculus DIX domain containing 1 (Dixdc1), mRNA [NM_178118]	NM_178118	-1.29459
Mus musculus RIKEN cDNA 9430022F06 gene (9430022F06Rik), mRNA [NM_153086]		-1.08573
Mus musculus clathrin, light polypeptide (Lcb) (Cltb), mRNA [NM_028870]	NM_028870	1.07439
RIKEN cDNA 4921528I07 gene	AK077029	1.19254
Mus musculus 11 days embryo head cDNA, RIKEN full-length enriched library, AK031771		1.14541
Ectodysplasin-A receptor	NM_010100	1.04289
Mus musculus ras homolog gene family, member J (Rhoj), mRNA [NM_023275]	NM_023275	-1.37676
Mus musculus P450 (cytochrome) oxidoreductase (Por), mRNA [NM_008898]	NM_008898	-1.12959
Mus musculus zinc finger protein 326 (Zfp326), mRNA [NM_018759]	NM_018759	-1.34133
Mus musculus interleukin 12 receptor, beta 1 (Il12rb1), mRNA [NM_008353]	NM_008353	-1.00562
hypothetical protein 5930431H10	AK031222	1.05637
Mus musculus prostaglandin I2 (prostacyclin) synthase (Ptgis), mRNA [NM_008968]	NM_008968	1.18728
Mus musculus RIKEN cDNA 2700079M14 gene (2700079M14Rik), mRNA [NM_145426]		1.03723
Mus musculus vesicular membrane protein p24 (Vmp), mRNA [NM_009513]	NM_009513	1.10205

Mus musculus glutamyl aminopeptidase (Enpep), mRNA [NM_007934]	NM_007934	-1.48422
RIKEN cDNA C330019L16 gene	AK049289	1.02527
RIKEN cDNA 1110008I14 gene	AK003577	-1.01007
Mus musculus surfeit gene 4 (Surf4), mRNA [NM_011512]	NM_011512	1.03266
Tripartite motif-containing 63	AK052911	-1.09558
Mus musculus transmembrane, prostate androgen induced RNA (Tmepai), mRNA [NM_022995]	NM_022995	1.10652
RIKEN cDNA A330004A13 gene	AK039235	1.05017
Mus musculus purinergic receptor P2X-like 1, orphan receptor (P2rxl1), mRNA [NM_011028]	NM_011028	-1.10324
Mus musculus squamous cell carcinoma antigen recognized by T-cells 1 (Sart1), mRNA [NM_016882]	NM_016882	1.04019
Mus musculus desmocollin 1 (Dsc1), mRNA [NM_013504]	NM_013504	-1.10721
Mus musculus keratin complex 1, acidic, gene 19 (Krt1-19), mRNA [NM_008471]	NM_008471	1.20464
Mus musculus cholinergic receptor, nicotinic, beta polypeptide 4 (Chrnb4), mRNA [NM_148944]	NM_148944	1.06581
Mus musculus myosin regulatory light chain interacting protein (Myliip), mRNA [NM_153789]	NM_153789	-1.1576
Mus musculus cAMP-regulated phosphoprotein 19 (Arpp19), mRNA [NM_021548]	NM_021548	-1.50122
Lrp2 binding protein	NM_026278	-1.08453
Mus musculus proteasome (prosome, macropain) 26S subunit, non-ATPase, 4 (NM_008951)	NM_008951	1.04965
Mus musculus eukaryotic translation initiation factor 3, subunit 8 (Eif3s8), mRNA [NM_146200]	NM_146200	1.12157
Mus musculus protocadherin gamma subfamily A, 4 (Pcdhga4), mRNA [NM_033587]	NM_033587	1.02729
Mus musculus DNA segment, Chr 17, human D6S56E 5 (D17H6S56E-5), mRNA [NM_033075]	NM_033075	-1.18132
Mus musculus retinoic acid receptor, gamma (Rarg), mRNA [NM_011244]	NM_011244	1.14743
Mus musculus solute carrier family 22 (organic cation transporter), member 4 (SNM_019687)	NM_019687	-1.12069
Mus musculus antigen p97 (melanoma associated) identified by monoclonal antibody (NM_013900)	NM_013900	1.03289
Mus musculus RIKEN cDNA A930027H06 gene (A930027H06Rik), mRNA [NM_175408]	NM_175408	1.03868
Mus musculus thyroid hormone receptor associated protein 6 (Thrap6), mRNA [NM_027212]	NM_027212	-1.2026
Mus musculus spermine oxidase (Smox), mRNA [NM_145533]	NM_145533	-1.10939
RIKEN cDNA 2810458H16 gene	AK045286	-1.04423
Growth arrest-specific 2 like 1	AK019661	-1.06069
Mus musculus complexin 2 (Cplx2), mRNA [NM_009946]	NM_009946	1.12042
Mus musculus RIKEN cDNA B930062P21 gene (B930062P21Rik), mRNA [NM_178789]	NM_178789	-1.01892
CUL3_MOUSE Cullin homolog 3 (CUL-3). [Mouse] {Mus musculus}, complete [TC1012118]		-1.39524
Mus musculus D4, zinc and double PHD fingers family 2 (Dpf2), mRNA [NM_011262]	NM_011262	1.02076
Development and differentiation enhancing factor-like 1	AK035099	-1.00914
Mus musculus UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide (NM_033149)	NM_033149	-1.02522
Apolipoprotein N	NM_133996	1.00526
Mus musculus Fc receptor, IgG, alpha chain transporter (Fcgrt), mRNA [NM_010189]	NM_010189	1.28527
Mus musculus RIKEN cDNA D230010M03 gene (D230010M03Rik), mRNA [NM_178724]	NM_178724	1.1121
Mus musculus oxidation resistance 1 (Oxr1), mRNA [NM_130885]	NM_130885	-1.52785
Mus musculus catenin beta (Catnb), mRNA [NM_007614]	NM_007614	-1.23266
AGENCOURT_8468801 NIH_MGC_129 Mus musculus cDNA clone IMAGE:63BQ715215	IMAGE:63BQ715215	-1.38756
Phosphatidic acid phosphatase type 2 domain containing 1	BC062173	-1.26864
Syntaxin binding protein 5 (tomosyn)	AK019788	-1.02173
Mus musculus interleukin 6 receptor, alpha (Il6ra), mRNA [NM_010559]	NM_010559	1.03497
Mus musculus N-methylpurine-DNA glycosylase (Mpg), mRNA [NM_010822]	NM_010822	-1.03186
Mus musculus prostaglandin E receptor 4 (subtype EP4) (Ptger4), mRNA [NM_008965]	NM_008965	-1.09478
Mus musculus c-mer proto-oncogene tyrosine kinase (Mertk), mRNA [NM_008587]	NM_008587	1.06986
RIKEN cDNA 2310033K02 gene	AK009597	1.03068
CDNA clone MGC:58416 IMAGE:6707555, complete cds	AK076724	1.05902
Mus musculus RIKEN cDNA 5830411J07 gene (5830411J07Rik), mRNA [NM_029082]	NM_029082	1.03044
Mus musculus olfactory receptor 569 (Olfr569), mRNA [NM_147088]	NM_147088	1.09636
RIKEN cDNA D130067I03 gene	AK018898	1.09287
Mus musculus zinc finger CCCH type domain containing 3 (Zc3hdc3), mRNA [NM_172121]	NM_172121	1.01325
Chitinase 1 (chitotriosidase)	AK009012	1.15784

RIKEN cDNA 4931408D14 gene	AK016444	1.12585
RIKEN cDNA 4930533N22 gene	AK015958	1.25267
Mus musculus olfactory receptor 432 (Olfr432), mRNA [NM_146716]	NM_146716	1.19581
RIKEN cDNA 1700024J04 gene	AK006305	-1.01354
Mus musculus olfactory receptor 47 (Olfr47), mRNA [NM_146370]	NM_146370	-1.01908
Mus musculus regulator of G-protein signaling 4 (Rgs4), mRNA [NM_009062]	NM_009062	-1.00144
Mus musculus calcium channel, voltage-dependent, gamma subunit 4 (Cacng4)	NM_019431	-1.22056
DNA segment, Chr 5, Wayne State University 148, expressed	AK081141	1.13079
Mus musculus phosphodiesterase 9A (Pde9a), mRNA [NM_008804]	NM_008804	-1.00516
RIKEN cDNA 1500034J01 gene	BC034701	-1.04614
Mus musculus tachykinin 4 (Tac4), mRNA [NM_053093]	NM_053093	1.09982
Malignant fibrous histiocytoma amplified sequence 1	AK081646	-1.18641
Mus musculus Rho GTPase activating protein 22 (Arhgap22), mRNA [NM_153800]	NM_153800	1.00162
Mus musculus glutamate receptor, metabotropic 6 (Grm6), mRNA [NM_173372]	NM_173372	-1.0485
Mus musculus two pore segment channel 2 (Tpcn2), mRNA [NM_146206]	NM_146206	1.00723
Mus musculus peroxisomal delta3, delta2-enoyl-Coenzyme A isomerase (Peci),	NM_011868	-1.14845
Mus musculus protoporphyrinogen oxidase (Ppox), mRNA [NM_008911]	NM_008911	1.07597
Mus musculus paired box gene 4 (Pax4), mRNA [NM_011038]	NM_011038	1.08416
RIKEN cDNA 4933402J24 gene	BC062923	1.02255
Mus musculus chondroadherin (Chad), mRNA [NM_007689]	NM_007689	1.14724
Mus musculus glutamic pyruvate transaminase (alanine aminotransferase) 2 (G	NM_173866	-1.03058
Mus musculus desmocollin 2 (Dsc2), mRNA [NM_013505]	NM_013505	-1.07577
Mus musculus transmembrane 9 superfamily member 1 (Tm9sf1), mRNA [NM_028780]	NM_028780	-1.13513
Mus musculus vomeronasal 1 receptor, C15 (V1rc15), mRNA [NM_134170]	NM_134170	1
Mus musculus apoptosis-inducing factor (AIF)-like mitochondrion-associated inc	NM_153779	-1.13339
RIKEN cDNA 2610207P08 gene	AK082752	-1.88795
Mus musculus translocated promoter region (Tpr), mRNA [NM_133780]	NM_133780	1.41808
Mus musculus exostoses (multiple) 2 (Ext2), mRNA [NM_010163]	NM_010163	-1.1097
RIKEN cDNA 1700023A16 gene	AK006257	1.25251
Mus musculus cDNA sequence BC020077 (BC020077), mRNA [NM_145549]	NM_145549	-1.39715
amphoterin induced gene and ORF	AK035960	1.02497
RIKEN cDNA 3110004L20 gene	AK013991	-1.43057
Mus musculus ral guanine nucleotide dissociation stimulator,-like 1 (Rgl1), mRN	NM_016846	-1.20224
Heat shock 70kDa protein 4 like	NM_011020	-1.15796
Mus musculus RAB, member of RAS oncogene family-like 4 (Rabl4), mRNA [NM_025931]	NM_025931	-1.16285
Mus musculus Kv channel-interacting protein 2 (Kcnp2), mRNA [NM_145703]	NM_145703	-1.22234
MAK10 homolog, amino-acid N-acetyltransferase subunit, (S. cerevisiae)	AK039339	1.00448
Mus musculus tubby like protein 4 (Tulp4), mRNA [NM_054040]	NM_054040	-1.1343
RIKEN cDNA 9830134C10 gene	NM_00100278	1.05345
Mus musculus bHLH-PAS type transcription factor NXF (Nxf), mRNA [NM_153500]	NM_153553	1.03063
Mus musculus tubby like protein 1 (Tulp1), mRNA [NM_021478]	NM_021478	1.06536
Mus musculus RIKEN cDNA 9330132O05 gene (9330132O05Rik), mRNA [NM_175259]	NM_175259	1.18135
Mus musculus solute carrier family 33 (acetyl-CoA transporter), member 1 (Slc3	NM_015728	1.05235
Mus musculus nuclear receptor binding protein (Nrpb), mRNA [NM_147201]	NM_147201	1.01412
Mus musculus cDNA sequence BC019977 (BC019977), mRNA [NM_144941]	NM_144941	1.28948
Mus musculus triosephosphate isomerase (Tpi), mRNA [NM_009415]	NM_009415	1.0009
Mus musculus aldo-keto reductase family 1, member C18 (Akr1c18), mRNA [NM_134066]	NM_134066	-1.13483
RIKEN cDNA 9530068E07 gene	BC034829	-1.08998
Mus musculus zonadhesin (Zan), mRNA [NM_011741]	NM_011741	-1.18854
Mus musculus RIKEN cDNA 5630401D24 gene (5630401D24Rik), mRNA [NM_144877]	NM_144877	1.00551
Procollagen, type IV, alpha 3 (Goodpasture antigen) binding protein	AK020301	-1.37186
O-acetyltransferase	BC010201	1.4111

Mus musculus cell division cycle 25 homolog B (<i>S. cerevisiae</i>) (<i>Cdc25b</i>), mRNA [NM_023117]	-1.02006
Mus musculus vascular endothelial growth factor C (<i>Vegfc</i>), mRNA [NM_009506]	-1.17648
Mus musculus solute carrier family 22 (organic cation transporter), member 9 (<i>SNM_019723</i>)	-1.01731
Mus musculus kinesin family member 23 (<i>Kif23</i>), mRNA [NM_024245]	-1.11281
Mus musculus RIKEN cDNA 9930021J17 gene (9930021J17Rik), mRNA [NM_172682]	-1.28074
hypothetical protein E230031K19	1.03012
Mus musculus RIKEN cDNA 0610042C05 gene (0610042C05Rik), mRNA [NM_025343]	-1.11984
Mus musculus eukaryotic translation elongation factor 1 epsilon 1 (<i>Eef1e1</i>), mRNA [NM_025380]	-1.18248
Casein kinase 1, gamma 1	-1.09287
Mus musculus mitochondrial ribosomal protein S16 (<i>Mrps16</i>), mRNA [NM_025440]	-1.18928
CDNA sequence BC059177	1.02909
Mus musculus membrane-spanning 4-domains, subfamily A, member 6C (<i>Ms4a6c</i>), mRNA [NM_028595]	-1.17308
Mus musculus expressed sequence AI448887 (<i>AI448887</i>), mRNA [NM_178887]	1.07032
Mus musculus whey acidic protein (<i>Wap</i>), mRNA [NM_011709]	1.13515
Mus musculus cyclin-dependent kinase inhibitor 1A (<i>P21</i>) (<i>Cdkn1a</i>), mRNA [NM_007669]	-1.0652
Mus musculus eukaryotic translation initiation factor 2, subunit 3, structural gene (<i>EIF2S3</i>), mRNA [NM_012010]	-1.14982
Mus musculus katanin p60 (ATPase-containing) subunit A1 (<i>Katna1</i>), mRNA [NM_011835]	-1.69347
Mus musculus RNA polymerase II transcriptional coactivator (<i>Rpo2tc1</i>), mRNA [NM_011294]	-1.07424
Mus musculus expressed sequence AI314180 (<i>AI314180</i>), mRNA [NM_172381]	1.05029
Mus musculus olfactory receptor 1342 (<i>Olfr1342</i>), mRNA [NM_146713]	1.01645
Mus musculus 1-acylglycerol-3-phosphate O-acyltransferase 2 (<i>lysophosphatidyltransferase 2</i>), mRNA [NM_026212]	1.00101
Mus musculus expressed in non-metastatic cells 2, protein (<i>Nme2</i>), mRNA [NM_008705]	-1.1857
Mus musculus GABA(A) receptor-associated protein like 2 (<i>Gabarapl2</i>), mRNA [NM_026693]	-1.59913
Unknown	1.05676
Mus musculus leptin receptor gene-related protein (<i>Obrgrp</i>), mRNA [NM_175036]	-1.12526
Mus musculus 0 day neonate eyeball cDNA, RIKEN full-length enriched library, AK053699	1.11614
Mus musculus retinoic acid induced 2 (<i>Rai2</i>), mRNA [NM_198409]	1.09416
Mus musculus glycine-N-acyltransferase (<i>Glyat</i>), mRNA [NM_145935]	-1.20485
Cytochrome P450, family 4, subfamily a, polypeptide 14	-1.02166
Mus musculus solute carrier family 9 (sodium/hydrogen exchanger), member 4 (<i>SLC9A4</i>), mRNA [NM_177084]	1.05693
RIKEN cDNA 1700022C02 gene	-1.13521
Mus musculus solute carrier family 28 (sodium-coupled nucleoside transporter), mRNA [NM_022317]	1.00816
RIKEN cDNA A330068P14 gene	1.09491
MRNA similar to RIKEN cDNA 5830413C03 gene (cDNA clone MGC:7065 IMA1), mRNA [BC004639]	-1.08635
Mus musculus programmed cell death 5 (<i>Pdcd5</i>), mRNA [NM_019746]	-1.38743
Mus musculus solute carrier family 25 (mitochondrial carrier, phosphate carrier), mRNA [NM_146118]	1.09785
Mus musculus pleckstrin homology domain containing, family B (evectins) member 1 (<i>PLEKHGB1</i>), mRNA [NM_145516]	1.00591
Mus musculus histocompatibility 2, M region locus 10.1 (<i>H2-M10.1</i>), mRNA [NM_013544]	-1.21574
Mus musculus cytochrome P450, family 2, subfamily c, polypeptide 40 (<i>Cyp2c40</i>), mRNA [NM_010004]	1.11561
Mus musculus integral membrane protein 2B (<i>Itm2b</i>), mRNA [NM_008410]	-1.46617
Zinc finger protein 469	1.46437
Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library, AK038045	1.07444
RIKEN cDNA 5730409G07 gene	1.04442
Mus musculus RIKEN cDNA 4930512M02 gene (4930512M02Rik), mRNA [NM_029171]	1.05117
Mus musculus expressed sequence AA409316 (<i>AA409316</i>), mRNA [NM_134087]	-1.15291
RIKEN cDNA 1810008B01 gene	-1.00793
Mus musculus olfactory receptor 43 (<i>Olfr43</i>), mRNA [NM_146711]	1.06337
Mus musculus adenylate cyclase 4 (<i>Adcy4</i>), mRNA [NM_080435]	-1.03043
Mus musculus ubiquitin-conjugating enzyme E2D 2 (<i>Ube2d2</i>), mRNA [NM_019912]	-1.23431
Mus musculus RIKEN cDNA 4933433C09 gene (4933433C09Rik), mRNA [NM_029408]	1.44002
Mus musculus carbohydrate (N-acetylglucosaminyl) sulfotransferase 7 (<i>Chst7</i>), mRNA [NM_021715]	-1.18337
Mus musculus olfactory receptor 1052 (<i>Olfr1052</i>), mRNA [NM_147010]	-1.05137

DnaJ (Hsp40) homolog, subfamily B, member 8	NM_019964	1.03048
RIKEN cDNA 6820402O20 gene	AK035209	-1.30777
Tripartite motif protein 16	AK053139	-1.16359
Cell-line RA6.3 immunoglobulin light chain variable region	X67198	-1.39039
Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system)	NM_011405	-1.05482
Mus musculus ring finger protein 34 (Rnf34), mRNA [NM_030564]	NM_030564	-1.16517
Unknown		-1.27318
Mus musculus endothelial precursor protein B9 (Eppb9), mRNA [NM_013717]	NM_013717	-1.33359
Mus musculus mitochondrial ribosomal protein L23 (Mrpl23), mRNA [NM_011288]	NM_011288	-1.12174
Procollagen, type IV, alpha 3 (Goodpasture antigen) binding protein	AK030305	1.02121
Mus musculus Fraser syndrome 1 homolog (human) (Fras1), mRNA [NM_175473]	NM_175473	-1.02334
Mus musculus wingless related MMTV integration site 8b (Wnt8b), mRNA [NM_011720]	NM_011720	1.07151
Mus musculus cadherin 22 (Cdh22), mRNA [NM_174988]	NM_174988	1.02165
Mus musculus synaptotagmin 10 (Syt10), mRNA [NM_018803]	NM_018803	1.33654
Mus musculus EGF, latrophilin seven transmembrane domain containing 1 (Eltf1), mRNA [NM_133222]	NM_133222	-1.31879
Mus musculus zinc finger and BTB domain containing 3 (Zbtb3), mRNA [NM_133759]	NM_133759	1.06337
Mus musculus nasal embryonic LHRH factor (Nelf), mRNA [NM_020276]	NM_020276	-1.04859
Mus musculus minichromosome maintenance deficient 4 homolog (S. cerevisiae)	NM_008565	-1.23932
Microtubule associated monooxygenase, calponin and LIM domain containing 1	NM_138315	-1.07512
Mus musculus carbohydrate kinase-like (Carkl), mRNA [NM_029031]	NM_029031	-1.01058
Mus musculus special AT-rich sequence binding protein 1 (Satb1), mRNA [NM_009122]	NM_009122	1.06953
Mus musculus olfactory receptor 1515 (Olfr1515), mRNA [NM_147020]	NM_147020	1.04661
RIKEN cDNA 4930542C16 gene	AK016018	-1.06069
Mus musculus dermatan 4 sulfotransferase 1 (D4st1), mRNA [NM_028117]	NM_028117	-1.09807
RIKEN cDNA 9430076C15 gene	AK035031	1.02396
Mus musculus ceroid-lipofuscinosis, neuronal 8 (Cln8), mRNA [NM_012000]	NM_012000	-1.18759
Mus musculus cDNA sequence BC027231 (BC027231), mRNA [NM_145972]	NM_145972	-1.14433
Mus musculus novel nuclear protein 1 (Nnp1), mRNA [NM_010925]	NM_010925	1.53701
Tissue factor pathway inhibitor	AF016313	-1.04251
Mus musculus protein kinase C, eta (Prkch), mRNA [NM_008856]	NM_008856	-1.00512
Mus musculus cDNA sequence BC021367 (BC021367), mRNA [NM_145597]	NM_145597	-1.19943
glucuronyl C5-epimerase	NM_033320	1.0039
Mus musculus sema domain, transmembrane domain (TM), and cytoplasmic domain	NM_011351	-1.00717
Mus musculus RIKEN cDNA 1700028P05 gene (1700028P05Rik), mRNA [NM_028833]	NM_028833	-1.75906
Mus musculus vomeronasal 2, receptor, 1b (V2r1b), mRNA [NM_019917]	NM_019917	-1.01192
Mus musculus nestin (Nes), mRNA [NM_016701]	NM_016701	1.26857
Mus musculus Ras association (RalGDS/AF-6) domain family 2 (Rassf2), mRNA [NM_175445]	NM_175445	1.10898
Mus musculus S100 calcium binding protein A16 (S100a16), mRNA [NM_026416]	NM_026416	-1.25586
Mus musculus myoglobin (Mb), mRNA [NM_013593]	NM_013593	1.0844
Cyclin T1	NM_009833	-1.07126
Mus musculus RIKEN cDNA 2310012M18 gene (2310012M18Rik), mRNA [NM_027315]	NM_027315	1.06085
WD repeat domain 22	NM_177267	-1.02471
RIKEN cDNA A430041B07 gene	AK039995	1.15935
Mus musculus nucleoporin 93 (Nup93), mRNA [NM_172410]	NM_172410	1.01496
Mus musculus RIKEN cDNA 2410075B13 gene (2410075B13Rik), mRNA [NM_146059]	NM_146059	-1.06368
Mus musculus RIKEN cDNA 2600013N14 gene (2600013N14Rik), mRNA [NM_152812]	NM_152812	-1.56972
RIKEN cDNA 2810407K09 gene	BC027683	-1.11309
Mus musculus fascin homolog 1, actin bundling protein (Strongylocentrotus purpuratus)	NM_007984	1.00353
Mus musculus interferon alpha family, gene 4 (Ifna4), mRNA [NM_010504]	NM_010504	1.09158
Mus musculus per-hexamer repeat gene 2 (Phxr2), mRNA [NM_008833]	NM_008833	1.0143
Mus musculus vomeronasal 1 receptor, F1 (V1rf1), mRNA [NM_134198]	NM_134198	1.01533
Mus musculus RIKEN cDNA 4632428N05 gene (4632428N05Rik), mRNA [NM_028732]	NM_028732	-1.25162

Mitogen activated protein kinase kinase kinase 3	U43187	1.20871
Phosphoinositide-3-kinase adaptor protein 1	AK007777	1.11238
Mus musculus bicaudal C homolog 1 (Drosophila) (Bicc1), mRNA [NM_031397]	NM_031397	-1.07361
Mus musculus RIKEN cDNA 2400002F11 gene (2400002F11Rik), mRNA [NM_025543]	NM_025543	-1.37392
hypothetical protein E230025N22	NM_172831	1.0235
Mus musculus proteasome (prosome, macropain) subunit, alpha type 2 (Psm2)	NM_008944	-1.3713
DnaJ (Hsp40) homolog, subfamily B, member 9	AK005475	-1.46155
Mus musculus RIKEN cDNA 1110014K08 gene (1110014K08Rik), mRNA [NM_176902]	NM_176902	1.03198
Mus musculus X-linked lymphocyte-regulated complex (Xlr), mRNA [NM_01172]	NM_011725	-1.09657
Mus musculus RIKEN cDNA 4833435D08 gene (4833435D08Rik), mRNA [NM_026247]	NM_026247	-1.11206
Mus musculus hypothetical protein A630029G22 (A630029G22), mRNA [XM_139533]	XM_139533	-1.00794
hypothetical protein 4831428F09	NM_172844	1.01707
Mus musculus olfactory receptor 323 (Olfr323), mRNA [NM_146376]	NM_146376	-1.0036
Mus musculus chemokine (C-X-C motif) ligand 1 (Cxcl1), mRNA [NM_008176]	NM_008176	-1.12895
Mus musculus src homology 2 domain-containing transforming protein C3 (Shc3)	NM_009167	-1.48276
Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, Y15163		1.21807
Mus musculus RIKEN cDNA 9530002B09 gene (9530002B09Rik), mRNA [NM_023865]	NM_023865	1.08559
Mus musculus RIKEN cDNA 3300001G02 gene (3300001G02Rik), mRNA [NM_030093]	NM_030093	1.06899
Mus musculus bridging integrator 3 (Bin3), mRNA [NM_021328]	NM_021328	-1.02509
Mus musculus RIKEN cDNA 3200002I06 gene (3200002I06Rik), mRNA [XM_130136]	XM_130136	1.09688
PH domain and leucine rich repeat protein phosphatase-like	AK048260	1.22668
Mus musculus meiosis expressed gene 1 (Meig1), mRNA [NM_008579]	NM_008579	-1.0826
Mus musculus excision repair cross-complementing rodent repair deficiency, co	NM_133658	1.17447
Mus musculus general transcription factor IIIC, polypeptide 5 (Gtf3c5), mRNA [NM_148928]	NM_148928	-1.07627
RIKEN cDNA 3110079O15 gene	AK014261	-1.03856
Mus musculus ribonuclease, RNase A family 4 (Rnase4), transcript variant 1, m	NM_021472	-1.25042
RIKEN cDNA 9330129D05 gene	AK033963	-1.09183
Titin	AK049540	-1.07696
Mus musculus polymerase (DNA directed), alpha 1 (Pola1), mRNA [NM_008892]	NM_008892	-1.2376
Zinc finger protein 661	NM_028141	-1.0964
Mus musculus solute carrier family 13 (sodium/sulfate symporters), member 4 (S	NM_172892	-1.10847
RIKEN cDNA E130014J05 gene	AK129389	1.04631
Mus musculus zinc finger protein 281 (Zfp281), mRNA [NM_177643]	NM_177643	-1.38458
Pleckstrin homology domain interacting protein	AK083100	-1.05499
RIKEN cDNA 4931403F16 gene	NM_175673	1.04327
CDNA sequence BC020108	BC020108	1.16829
RIKEN cDNA 2310012P17 gene	AK009327	1.12907
Mus musculus tubulin, alpha 4 (Tuba4), mRNA [NM_009447]	NM_009447	1.01845
Mus musculus solute carrier family 19 (thiamine transporter), member 2 (Slc19a	NM_054087	-1.11789
Mus musculus RIKEN cDNA E330026B02 gene (E330026B02Rik), mRNA [NM_172927]	NM_172927	-1.00513
RIKEN cDNA A530016O06 gene	AK040702	-1.15827
RIKEN cDNA 2210416O15 gene	AK008958	-1.02258
Mus musculus eukaryotic translation initiation factor 2B, subunit 5 epsilon (Eif2b	NM_172265	1.04271
Mus musculus SH3-domain binding protein 5 (BTK-associated) (Sh3bp5), mRNA [NM_011894]	NM_011894	1.11929
Mus musculus RIKEN cDNA 3110056O03 gene (3110056O03Rik), mRNA [NM_175195]	NM_175195	-1.00944
Mus musculus RIKEN cDNA A630065K24 gene (A630065K24Rik), mRNA [NM_144810]	NM_144810	1.01078
Mus musculus monooxygenase, DBH-like 1 (Moxd1), mRNA [NM_021509]	NM_021509	1.04213
RIKEN cDNA 2900075A18 gene	AK013788	1.00737
Mus musculus expressed sequence C77668 (C77668), transcript variant 1, mRNA [NM_145540]	NM_145540	-1.25128
Mus musculus olfactory receptor 1156 (Olfr1156), mRNA [NM_146817]	NM_146817	1.05026
Mus musculus SH3 multiple domains 2 (Sh3md2), transcript variant 1, mRNA [NM_021506]	NM_021506	1.03625
Mus musculus RIKEN cDNA D930010O20 gene (D930010O20Rik), mRNA [NM_177387]	NM_177387	1.39769

RIKEN cDNA 5730469D23 gene	AK017687	1
Mus musculus pore forming protein-like (Pfpl), mRNA [NM_019540]	NM_019540	1.07059
RIKEN cDNA B430105A11 gene	AK021017	1
Mus musculus expressed sequence AI481750 (AI481750), mRNA [NM_145473]	NM_145473	1.07996
Testis-specific serine kinase 4	AK006144	1.01556
Mus musculus gephyrin (Gphn), mRNA [NM_172952]	NM_172952	-1.08275
Mus musculus achaete-scute complex homolog-like 3 (Drosophila) (Ascl3), mRNA [NM_020051]	NM_020051	1.05919
Mus musculus receptor-like tyrosine kinase (Ryk), mRNA [NM_013649]	NM_013649	-1.27133
Mus musculus phosphoglucomutase 2-like 1 (Pgm2l1), mRNA [NM_027629]	NM_027629	-1.0143
Mus musculus POU domain, class 2, associating factor 1 (Pou2af1), mRNA [NM_011136]	NM_011136	-1.00242
Mus musculus zinc finger protein 54 (Zfp54), mRNA [NM_011760]	NM_011760	-1.76996
Mus musculus RIKEN cDNA 2810404F18 gene (2810404F18Rik), mRNA [NM_178626]	NM_178626	-1.3929
Complexin 2	BC058395	-1.21588
Mus musculus olfactory receptor 203 (Olfr203), mRNA [NM_146486]	NM_146486	1.00823
telomerase binding protein, p23	NM_019766	-1.43651
Mus musculus toll-like receptor 9 (Tlr9), mRNA [NM_031178]	NM_031178	1.20021
Mus musculus olfactory receptor 502 (Olfr502), mRNA [NM_146739]	NM_146739	1.01692
Mus musculus forkhead box G1 (Foxg1), mRNA [NM_008241]	NM_008241	-1.01232
Mus musculus tyrosyl-tRNA synthetase (Yars), mRNA [NM_134151]	NM_134151	1.12252
Mus musculus xeroderma pigmentosum, complementation group C (Xpc), mRNA [NM_009531]	NM_009531	1.05109
Mus musculus RIKEN cDNA 1700001C14 gene (1700001C14Rik), mRNA [NM_029295]	NM_029295	-1.05572
Mus musculus synaptonemal complex protein 1 (Sycp1), mRNA [NM_011516]	NM_011516	1.092
Mus musculus claudin 4 (Cldn4), mRNA [NM_009903]	NM_009903	-1.09027
Amphiphysin	AK047144	1.0408
Mus musculus procollagen, type IV, alpha 4 (Col4a4), mRNA [NM_007735]	NM_007735	1.19193
Pleckstrin homology domain containing, family A (phosphoinositide binding specific protein) 1 (Pleckstrin)	NM_133942	-1.00312
Mus musculus protein kinase C, delta (Prkcd), mRNA [NM_011103]	NM_011103	1.13756
Mus musculus kinesin family member 2A (Kif2a), mRNA [NM_008442]	NM_008442	1.14845
CDNA sequence BC036961	AK032598	1.12572
Tyrosyl-DNA phosphodiesterase 1	BC065162	1.1147
Mus musculus RIKEN cDNA 1700067I02 gene (1700067I02Rik), mRNA [NM_178387]	NM_178387	1.10473
Mus musculus chemokine (C-X-C motif) ligand 15 (Cxcl15), mRNA [NM_011339]	NM_011339	-1.44263
Mus musculus peroxisome proliferator activator receptor delta (Ppard), mRNA [NM_011145]	NM_011145	1.06573
Mus musculus cathepsin 6 (Cts6), mRNA [NM_021445]	NM_021445	-1.13391
Renal tumor antigen	NM_011973	1.03337
Mus musculus natriuretic peptide precursor type B (Nppb), mRNA [NM_008726]	NM_008726	1.03907
Transcribed locus	BE369192	-1.01729
Mus musculus moesin (Msn), mRNA [NM_010833]	NM_010833	-1.15517
Fucose-1-phosphate guanylyltransferase	AJ276067	-1.49478
Mus musculus Rho GTPase activating protein 25 (Arhgap25), mRNA [NM_175476]	NM_175476	-1.17973
RIKEN cDNA 7530408C15 gene	AK019388	2.03286
Mus musculus phytanoyl-CoA hydroxylase interacting protein (Phyhip), mRNA [NM_145981]	NM_145981	-1.13262
Mus musculus RAP2C, member of RAS oncogene family (Rap2c), mRNA [NM_172413]	NM_172413	-1.25444
Mus musculus RIKEN cDNA 2700091N06 gene (2700091N06Rik), mRNA [NM_026028]	NM_026028	1.03683
Mus musculus Werner helicase interacting protein 1 (Wrnip1), mRNA [NM_030215]	NM_030215	-1.20873
Mus musculus RIKEN cDNA 2810475A17 gene (2810475A17Rik), mRNA [NM_028355]	NM_028355	-1.20573
Mus musculus ret proto-oncogene (Ret), mRNA [NM_009050]	NM_009050	1.01606
Mus musculus caudal type homeo box 1 (Cdx1), mRNA [NM_009880]	NM_009880	-1.03936
Syntaxin binding protein 5 (tomosyn)	AK053096	-1.02079
Mus musculus cDNA sequence BC027073 (BC027073), mRNA [NM_172272]	NM_172272	1.08548
Mus musculus gamma-aminobutyric acid receptor associated protein (Gabarap)	NM_019749	-1.05342
Mus musculus sorting nexin 1 (Snx1), mRNA [NM_019727]	NM_019727	-1.265

RIKEN cDNA E330009J07 gene	AK122457	-1.17532
Mus musculus myoneurin (Mynn), mRNA [NM_030557]	NM_030557	-1.27907
RIKEN cDNA C230094A16 gene	AK081418	-1.27707
Glutamate receptor, ionotropic, NMDA2B (epsilon 2)	AK002963	1.15922
Mus musculus tumor necrosis factor receptor superfamily, member 25 (Tnfrsf25)	NM_033042	1.00787
Mus musculus RIKEN cDNA E030034C22 gene (E030034C22Rik), mRNA [NM_144840]	NM_144840	1.02952
Mus musculus RIKEN cDNA D130074J02 gene (D130074J02Rik), mRNA [NM_176973]	NM_176973	1.01222
Mus musculus phosphate cytidyltransferase 2, ethanolamine (Pcyt2), mRNA [NM_024229]	NM_024229	-1.05542
Mus musculus lymphocyte antigen 6 complex, locus G5C (Ly6g5c), mRNA [NM_148947]	NM_148947	1.04225
Mus musculus CD1d1 antigen (Cd1d1), mRNA [NM_007639]	NM_007639	-1.51237
Mus musculus Parkinson disease (autosomal recessive, early onset) 7 (Park7),	NM_020569	-1.21246
Mus musculus heme binding protein 2 (Hebp2), mRNA [NM_019487]	NM_019487	-1.09657
Mus musculus lactation elevated 1 (Lace1), mRNA [NM_145743]	NM_145743	-1.095
Mus musculus interleukin 1 receptor, type I (Il1r1), mRNA [NM_008362]	NM_008362	-1.02553
Mus musculus vomeronasal 1 receptor, E3 (V1re3), mRNA [NM_134192]	NM_134192	1.11768
Mus musculus Eph receptor A4 (Epha4), mRNA [NM_007936]	NM_007936	1.08754
Mus musculus RIKEN cDNA 5830446M03 gene (5830446M03Rik), mRNA [NM_133934]	NM_133934	-1.10074
Unknown		1.01448
RIKEN cDNA 1700023D19 gene	AK006268	-1.0037
Mus musculus lipoxygenase homology domains 1 (Loxhd1), mRNA [NM_172833]	NM_172833	1.05524
Unknown		-1.00189
Mus musculus dynein, cytoplasmic, intermediate chain 1 (Dncic1), mRNA [NM_010063]	NM_010063	-1.01119
Mus musculus cDNA sequence BC014699 (BC014699), mRNA [NM_145570]	NM_145570	-1.07738
Mus musculus cysteine-rich protein 1 (intestinal) (Crip1), mRNA [NM_007763]	NM_007763	-1.06897
Mus musculus olfactory receptor 1417 (Olfr1417), mRNA [NM_146936]	NM_146936	1.21795
Mus musculus olfactory receptor 1232 (Olfr1232), mRNA [NM_146323]	NM_146323	-1.02616
Mus musculus proliferin related protein (Plfr), mRNA [NM_011120]	NM_011120	1.08223
Mus musculus alcohol dehydrogenase 4 (class II), pi polypeptide (Adh4), mRNA	NM_011996	-1.07024
Mus musculus ring finger protein 126 (Rnf126), mRNA [NM_144528]	NM_144528	1.08879
Mus musculus asparagine-linked glycosylation 5 homolog (yeast, dolichyl-phosphatase)	NM_025442	-1.6486
Mus musculus Hermansky-Pudlak syndrome 4 homolog (human) (Hps4), mRNA	NM_138646	-1.14797
Mus musculus eukaryotic translation initiation factor 2B, subunit 2 beta (Eif2b2),	NM_145445	-1.02845
Killer cell lectin-like receptor subfamily K, member 1	AF054819	1.01966
Unknown		-1.24092
RIKEN cDNA 0610042G04 gene	AK002909	1.16624
Mus musculus RIKEN cDNA 4933417C16 gene (4933417C16Rik), mRNA [NM_172568]	NM_172568	1.11674
Mus musculus malic enzyme, supernatant (Mod1), mRNA [NM_008615]	NM_008615	-1.50351
Mus musculus mitogen activated protein kinase 10 (Mapk10), mRNA [NM_009158]	NM_009158	-1.24557
Mus musculus casein kinase 1, alpha 1 (Csnk1a1), mRNA [NM_146087]	NM_146087	-1.64785
Mus musculus solute carrier family 39 (zinc transporter), member 14 (Slc39a14)	NM_144808	1.07932
Thyroid hormone receptor interactor 11	AK045549	-1.0473
Mus musculus plexin B1 (Plxnb1), mRNA [NM_172775]	NM_172775	-1.12797
Mus musculus kinase interacting with leukemia-associated gene (stathmin) (Kis)	NM_010633	1
Mus musculus ARP1 actin-related protein 1 homolog A (yeast) (Actr1a), mRNA	NM_016860	1.0271
Synaptic nuclear envelope 1	AF281870	1.19642
Mus musculus RIKEN cDNA 3110032G18 gene (3110032G18Rik), mRNA [NM_028443]	NM_028443	-1.13705
Mus musculus scavenger receptor class A, member 3 (Scara3), mRNA [NM_172604]	NM_172604	-1.11797
HORMA domain containing 2	AK015939	1.21652
Mus musculus expressed sequence AI551766 (AI551766), mRNA [NM_194342]	NM_194342	-1.09379
Mus musculus RIKEN cDNA 8430422M09 gene (8430422M09Rik), mRNA [XM_148115]	XM_148115	1.01752
A60747 MHC class I histocompatibility antigen H-2 Q5-k alpha chain precursor - mouse, partial		1.24691
RIKEN cDNA 1700024B07 gene	AK006292	1.29457

Mus musculus calcium/calmodulin-dependent protein kinase II, beta (Camk2b), PDZ domain containing 3	NM_007595	1.102
	AK087419	1.0127
Golgi associated, gamma adaptin ear containing, ARF binding protein 3	AK122212	1.07457
RIKEN cDNA 9030409G11 gene	AK052809	-1.29941
Mus musculus ubiquitin specific protease 26 (Usp26), mRNA [NM_031388]	NM_031388	-1.31112
Mus musculus RIKEN cDNA 2310056P07 gene (2310056P07Rik), mRNA [NM_027342]	NM_027342	-1.43261
Expressed sequence AI854517	AK032343	1.1501
Mus musculus pam, highwire, rpm 1 (Phr1), mRNA [NM_207215]	NM_207215	-1.04271
Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 5 (Dnajc5), mRNA [NM_016775]	NM_016775	-1.37745
RIKEN cDNA 4933424A20 gene	AK016577	1.04194
Mus musculus ankyrin repeat and SOCS box-containing protein 13 (Asb13), mRNA [NM_178283]	NM_178283	-1.32075
Mus musculus olfactory receptor 738 (Olfr738), mRNA [NM_146420]	NM_146420	1.02477
RIKEN cDNA 5730521P14 gene	BC008111	-1.03088
Mus musculus DNA segment, Chr 19, ERATO Doi 386, expressed (D19Erd386)	NM_177464	-1.01804
Mus musculus olfactory receptor 575 (Olfr575), mRNA [NM_147114]	NM_147114	1.08029
Mus musculus acidic ribosomal phosphoprotein P0 (Arbp), mRNA [NM_007475]	NM_007475	-1.05498
RIKEN cDNA 2410127E18 gene	AK085116	-1.06245
RIKEN cDNA 3000002B06 gene	NM_00100197	-1.01028
Mus musculus transforming growth factor beta 1 induced transcript 1 (Tgfb1i1), mRNA [NM_009365]	NM_009365	1.09941
Mus musculus mitogen activated protein kinase kinase 5 (Map2k5), mRNA [NM_011840]	NM_011840	-1.00661
Mus musculus PC4 and SFRS1 interacting protein 1 (Psp1), mRNA [NM_133948]	NM_133948	-1.35931
Mus musculus thioesterase superfamily member 2 (Them2), mRNA [NM_025790]	NM_025790	-1.21849
Mus musculus myxovirus (influenza virus) resistance 2 (Mx2), mRNA [NM_013606]	NM_013606	-1.05583
Mus musculus DNA segment, Chr 1, ERATO Doi 578, expressed (D1Erd578e), mRNA [NM_175127]	NM_175127	-1.13345
Mus musculus RIKEN cDNA 4930467B06 gene (4930467B06Rik), mRNA [NM_029786]	NM_029786	1.1908
Mus musculus testis expressed gene 19 (Tex19), mRNA [NM_028602]	NM_028602	1.02304
Mus musculus gasdermin (Gsdm), mRNA [NM_021347]	NM_021347	1.01894
Gap junction membrane channel protein alpha 3	NM_016975	1.06164
Mus musculus RIKEN cDNA 1300012D20 gene (1300012D20Rik), mRNA [NM_152811]	NM_152811	-1.07793
RIKEN cDNA A730024A03 gene	AK047814	-1.15406
Mus musculus telomeric repeat binding factor 2, interacting protein (Terf2ip), mRNA [NM_020584]	NM_020584	-1.07519
RIKEN cDNA 4930428J16 gene	AK015225	1.00158
Mus musculus RIKEN cDNA 2810028A01 gene (2810028A01Rik), mRNA [NM_028325]	NM_028325	-1.0533
Mus musculus basigin (Bsg), mRNA [NM_009768]	NM_009768	1.05213
Mus musculus seminal vesicle secretion 3 (Svs3), mRNA [NM_021363]	NM_021363	1.1494
Eukaryotic translation initiation factor 4 gamma, 3	BC057913	1.09157
Mus musculus pituitary tumor-transforming 1 interacting protein (Pttg1ip), mRNA [NM_145925]	NM_145925	-1.03724
Mus musculus polyhomeotic-like 3 (Drosophila) (Phc3), mRNA [NM_153421]	NM_153421	1.10358
RIKEN cDNA 2010003J03 gene	BC024640	-1.04068
Mus musculus cDNA sequence BC043118 (BC043118), mRNA [NM_174848]	NM_174848	-1.58562
Mus musculus AP1 gamma subunit binding protein 1 (Ap1gbp1), mRNA [NM_194341]	NM_194341	1.05917
Mus musculus RIKEN cDNA 4933415L06 gene (4933415L06Rik), mRNA [NM_175369]	NM_175369	-3.02895
Mus musculus olfactory receptor 803 (Olfr803), mRNA [NM_146554]	NM_146554	-1.00404
RIKEN cDNA 2610307O08 gene	AK077788	-1.11262
Zinc finger protein 26	M36514	1.08348
Mus musculus presenilin 2 (Psen2), mRNA [NM_011183]	NM_011183	-1.16571
Mus musculus FK506 binding protein 7 (Fkbp7), mRNA [NM_010222]	NM_010222	-1.35299
Mus musculus wingless-related MMTV integration site 8A (Wnt8a), mRNA [NM_009290]	NM_009290	-1.16254
Mus musculus phytyl-CoA hydroxylase interacting protein-like (Phyhip1), mRNA [NM_178621]	NM_178621	1.08078
Mus musculus RIKEN cDNA 4933406J04 gene (4933406J04Rik), mRNA [NM_175333]	NM_175333	1.1067
Keratin associated protein 2-4	AK017442	1.10846
Mus musculus expressed sequence AI462438 (AI462438), mRNA [NM_133840]	NM_133840	-1.14114

RIKEN cDNA B230315F11 gene	AK045863	-1.36345
Mus musculus ribosome binding protein 1 (Rrbp1), mRNA [NM_024281]	NM_024281	-1.07679
RIKEN cDNA D430036J16 gene	AK052495	-1.01579
RIKEN cDNA D030016E14 gene	BC063065	-1.36301
RIKEN cDNA 2410024N13 gene	AK010586	1.07351
Mus musculus claudin 19 (Cldn19), mRNA [NM_153105]	NM_153105	1.07204
Mus musculus growth differentiation factor 5 (Gdf5), mRNA [NM_008109]	NM_008109	1.0284
Mus musculus RIKEN cDNA 2610018L09 gene (2610018L09Rik), mRNA [NM_172254]	NM_172254	-1.0027
Mus musculus T-cell leukemia/lymphoma 1B, 4 (Tcl1b4), mRNA [NM_013774]	NM_013774	1.04069
RIKEN cDNA B130052P14 gene	AK080962	1.04237
Synaptic nuclear envelope 2	AK078542	1.16981
TAR DNA binding protein	NM_145556	-1.14638
Mus musculus RIKEN cDNA 0610039P13 gene (0610039P13Rik), mRNA [NM_028752]	NM_028752	1.0604
Mus musculus poly(rC) binding protein 3 (Pcbp3), mRNA [NM_021568]	NM_021568	1.10106
Mus musculus choline phosphotransferase 1 (Chpt1), mRNA [NM_144807]	NM_144807	-1.05305
DIX domain containing 1	AI847465	1.01798
RIKEN cDNA 1700128E19 gene	AK007309	1.07147
Methyltransferase like 5	BC027547	-1.55416
Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 30 (Dhx30), mRNA [NM_133347]	NM_133347	-1.10038
Mus musculus ceroid lipofuscinosis, neuronal 3, juvenile (Batten, Spielmeyer-Vogelstein type 3), mRNA [NM_009907]	NM_009907	1.0314
Mus musculus estrogen receptor 1 (alpha) (Esr1), mRNA [NM_007956]	NM_007956	1.10167
signal peptide peptidase 3	BC023131	-1.1631
RIKEN cDNA 8430427H17 gene	AK029844	-1.11525
Mus musculus RAD21 homolog (S. pombe) (Rad21), mRNA [NM_009009]	NM_009009	-1.60847
Mus musculus poliovirus receptor-related 2 (Pvrl2), mRNA [NM_008990]	NM_008990	1.0597
Mus musculus heat shock protein 1, beta (Hspcb), mRNA [NM_008302]	NM_008302	1.10897
Mus musculus desmocollin 3 (Dsc3), mRNA [NM_007882]	NM_007882	1.06999
Taste receptor, type 2, member 116	AF247734	1.01512
Mus musculus hypothetical protein 5832424M12 (5832424M12), mRNA [NM_172591]	NM_172591	-2.06742
Mus musculus MAS-related GPR, member E (Mrgpre), mRNA [NM_175534]	NM_175534	1.01573
Mus musculus RIKEN cDNA 1200011O22 gene (1200011O22Rik), mRNA [NM_027891]	NM_027891	-1.00067
Phosphoribosyl pyrophosphate synthetase-associated protein 1	AK081974	1.24499
Serine/threonine kinase 24 (STE20 homolog, yeast)	NM_145465	-1.02656
Mus musculus ATPase, H ⁺ transporting, V1 subunit B, isoform 2 (Atp6v1b2), mRNA [NM_007509]	NM_007509	1.03823
Mus musculus RIKEN cDNA A730016F12 gene (A730016F12Rik), transcript variant 1, mRNA [NM_175079]	NM_175079	-1.18376
Mus musculus phosphoinositide-3-kinase, catalytic, gamma polypeptide (Pik3cg), mRNA [NM_020272]	NM_020272	-1.00017
Mus musculus chaperone, ABC1 activity of bc1 complex like (S. pombe) (Cabc1), mRNA [NM_023341]	NM_023341	1.06594
Mus musculus RIKEN cDNA 2700067D09 gene (2700067D09Rik), mRNA [NM_028301]	NM_028301	1.23421
Mus musculus 2 days pregnant adult female ovary cDNA, RIKEN full-length enriched library clone, mRNA [AK087705]	AK087705	1.05201
Mus musculus pleckstrin (Plek), mRNA [NM_019549]	NM_019549	-1.03548
Mus musculus homeo box B1 (Hoxb1), mRNA [NM_008266]	NM_008266	-1.0309
RIKEN cDNA 1110007F05 gene	BC055454	-1.17335
Mus musculus RIKEN cDNA A530046H20 gene (A530046H20Rik), mRNA [NM_172310]	NM_172310	1.0077
Mus musculus myosin, light polypeptide 2, regulatory, cardiac, slow (Myl2), mRNA [NM_010861]	NM_010861	-1.01717
Mus musculus RIKEN cDNA 2210016L21 gene (2210016L21Rik), mRNA [NM_028211]	NM_028211	1.13632
Mus musculus RIKEN cDNA 6330414G21 gene (6330414G21Rik), mRNA [NM_178110]	NM_178110	1.14159
Mus musculus kinesin family member 1B (Kif1b), transcript variant 2, mRNA [NM_207682]	NM_207682	1.10048
RIKEN cDNA C030022K24 gene	AK015791	1.00218
Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library clone, mRNA [AK038316]	AK038316	1.04655
Mus musculus glial cell line derived neurotrophic factor (Gdnf), mRNA [NM_010275]	NM_010275	1.26704
Mus musculus NK2 transcription factor related, locus 3 (Drosophila) (Nkx2-3), mRNA [NM_008699]	NM_008699	1.00346
Mus musculus myotubularin related protein 7 (Mtmr7), mRNA [NM_019433]	NM_019433	-1.03027

Mus musculus peroxisome proliferator activated receptor binding protein (Pparb)	NM_013634	1.1419
Mus musculus matrix gamma-carboxyglutamate (gla) protein (Mglap), mRNA [N	NM_008597	-1.23805
RIKEN cDNA C030027H14 gene	AK021106	-1.16377
Mus musculus adaptor-related protein complex AP-1, mu subunit 1 (Ap1m1), m	NM_007456	1.15204
Mus musculus H3 histone, family 3B (H3f3b), mRNA [NM_008211]	NM_008211	-1.47827
RIKEN cDNA 1810010G06 gene	BC026636	-1.04478
RIKEN cDNA D630029K19 gene	AK030086	1.54924
Vesicle-associated membrane protein 4	AK018344	-1.51908
RIKEN cDNA 9230110I02 gene	AK020330	1.05607
Spermatogenesis associated glutamate (E)-rich protein 6, pseudogene 1	AK006638	-1.01594
Mus musculus vomeronasal 1 receptor, G12 (V1rg12), mRNA [NM_134234]	NM_134234	1.05245
Kelch repeat and BTB (POZ) domain containing 2	AK028396	-1.03484
Mus musculus Rous sarcoma oncogene (Src), mRNA [NM_009271]	NM_009271	-1.04443
Mus musculus mitogen activated protein kinase 3 (Mapk3), mRNA [NM_011952	NM_011952	1.13993
Phosphatidic acid phosphatase 2a	AK077275	-1.44652
Mus musculus armadillo repeat containing, X-linked 2 (Armcx2), mRNA [NM_02	NM_026139	-1.77582
Synaptotagmin 11	AK122531	-1.1193
Mus musculus olfactory receptor 1176 (Olfr1176), mRNA [NM_146771]	NM_146771	1.08211
Mus musculus dihydropyrimidinase-like 3 (Dpysl3), mRNA [NM_009468]	NM_009468	1.25366
Mus musculus nucleobindin 2 (Nucb2), mRNA [NM_016773]	NM_016773	-1.36652
Mus musculus CEA-related cell adhesion molecule 12 (Ceacam12), mRNA [NM	NM_026087	1.01901
Mus musculus olfactory receptor 667 (Olfr667), mRNA [NM_147060]	NM_147060	1.01042
Mus musculus olfactory marker protein (Omp), mRNA [NM_011010]	NM_011010	1.05669
Apolipoprotein L, 2	AK036408	1.02601
Mus musculus hypothetical protein C130036J11 (C130036J11), mRNA [NM_17	NM_172921	-1.11309
Mus musculus dual specificity phosphatase 12 (Dusp12), mRNA [NM_023173]	NM_023173	-1.19137
Mus musculus inhibin beta-C (Inhbc), mRNA [NM_010565]	NM_010565	-1.02744
Mus musculus mitochondrial ribosomal protein S7 (Mrps7), mRNA [NM_025305]	NM_025305	-1.01717
Mus musculus retinol dehydrogenase 5 (Rdh5), mRNA [NM_134006]	NM_134006	1.07835
Centrin 1	NM_007593	1.07759
Tripartite motif-containing 35	AK032635	-1.19119
Mus musculus tetratricopeptide repeat domain 4 (Ttc4), mRNA [NM_028209]	NM_028209	-1.27655
602392272F1 NIH_MGC_94 Mus musculus cDNA clone IMAGE:4504193 5', m	BG294955	1.01216
Mus musculus RIKEN cDNA 2610042O14 gene (2610042O14Rik), mRNA [NM_	NM_025575	1.05847
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:	AK019553	1.13408
RIKEN cDNA 3010027A04 gene	AK032084	-1.55892
Mus musculus RIKEN cDNA 4933411C14 gene (4933411C14Rik), mRNA [XM_	NM_130140	1.14056
Mus musculus expressed sequence AI195350 (AI195350), mRNA [NM_134133	NM_134133	-1.51126
Mus musculus dachshund 1 (Drosophila) (Dach1), mRNA [NM_007826]	NM_007826	1.13782
Mus musculus optineurin (Optn), mRNA [NM_181848]	NM_181848	1.14956
Mus musculus GLIS family zinc finger 1 (Glis1), mRNA [NM_147221]	NM_147221	1.11761
G1 to S phase transition 2	NM_008179	1.00472
RIKEN cDNA 6430526N21 gene	AK031793	1.07503
Mus musculus developmentally regulated GTP binding protein 1 (Drg1), mRNA	NM_007879	-1.17493
Mus musculus vomeronasal 1 receptor, I2 (V1ri2), mRNA [NM_134219]	NM_134219	1.03102
Mus musculus olfactory receptor 875 (Olfr875), mRNA [NM_146749]	NM_146749	1.05862
Mus musculus UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptid	NM_019804	-1.00509
Mus musculus superoxide dismutase 3, extracellular (Sod3), mRNA [NM_01143	NM_011435	-1.09299
Mus musculus cold inducible RNA binding protein (Cirbp), mRNA [NM_007705]	NM_007705	-1.15329
DNA segment, Chr 10, ERATO Doi 516, expressed	AK078117	1.0425
C-type lectin domain family 4, member d	NM_010819	-1.44681
Nucleolar protein 8	BC049166	1.0945

Mus musculus mitochondrial ribosomal protein S21 (Mrps21), mRNA [NM_0784	NM_078479	-1.31394
RIKEN cDNA 6430585N13 gene	AK032536	1.04778
Mus musculus RIKEN cDNA 9530008L14 gene (9530008L14Rik), mRNA [NM_	NM_175417	-1.01274
mitochondria-associated protein involved in granulocyte-macrophage colony-stir	NM_025571	1.04017
Mus musculus ectodermal-neural cortex 1 (Enc1), mRNA [NM_007930]	NM_007930	1.02944
Mus musculus mesenchyme homeobox 2 (Meox2), mRNA [NM_008584]	NM_008584	-1.39275
Mus musculus vomeronasal 1 receptor, E12 (V1re12), mRNA [NM_134231]	NM_134231	1.03673
RIKEN cDNA C330008K14 gene	AK021193	-1.06347
Mus musculus glucokinase regulatory protein (Gckr), mRNA [NM_144909]	NM_144909	1.03023
Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex 10 (Ndu	NM_024197	-1.07931
Mus musculus 10 days embryo whole body cDNA, RIKEN full-length enriched lit	AK011368	-1.05558
Mus musculus RIKEN cDNA 2610034N24 gene (2610034N24Rik), mRNA [NM_	NM_027256	-1.31299
Mus musculus RIKEN cDNA 2700055K07 gene (2700055K07Rik), mRNA [NM_	NM_026481	1.16227
Mus musculus cytochrome P450, family 2, subfamily f, polypeptide 2 (Cyp2f2), r	NM_007817	-1.05836
Mus musculus secreted and transmembrane 1 (Sectm1), mRNA [NM_026907]	NM_026907	1.06948
Mus musculus ubiquitin specific protease 14 (Usp14), mRNA [NM_021522]	NM_021522	-1.2045
G protein-coupled receptor 158	AK083234	-1.02228
Cingulin	AK018143	-1.00859
Mus musculus RIKEN cDNA 1500005A01 gene (1500005A01Rik), mRNA [NM_	NM_033146	-1.09866
Mus musculus olfactory receptor 1453 (Olfr1453), mRNA [NM_146700]	NM_146700	-1.01982
Mus musculus HIV-1 Rev binding protein (Hrb), mRNA [NM_010472]	NM_010472	-1.2962
Mus musculus aldolase 2, B isoform (Aldob), mRNA [NM_144903]	NM_144903	1.16492
Mus musculus kelch-like ECH-associated protein 1 (Keap1), mRNA [NM_01667	NM_016679	1.4632
RIKEN cDNA 6030490I01 gene	NM_177359	-1.15054
RIKEN cDNA 2010107G12 gene	AK041880	1.11254
Leucine rich repeat containing 2	AJ428068	1.07078
Mus musculus RIKEN cDNA 3110050N22 gene (3110050N22Rik), mRNA [NM_	NM_173181	-1.9259
Mus musculus bactericidal/permeability-increasing protein-like 3 (Bpil3), mRNA	NM_199303	-1.02839
Mus musculus protein phosphatase 3, catalytic subunit, gamma isoform (Ppp3c	NM_008915	-1.36227
Mus musculus rho/rac guanine nucleotide exchange factor (GEF) 2 (Arhgef2), r	NM_008487	1.07511
Mus musculus transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) (T	NM_013683	1.19608
Mus musculus CDKN1A interacting zinc finger protein 1 (Ciz1), mRNA [NM_028	NM_028412	1.06682
RIKEN cDNA 4921537D05 gene	AK017769	1.02697
similar to Eukaryotic translation initiation factor 1A (eIF-1A) (eIF-4C)	AK049201	1.09818
Mus musculus mitochondrial ribosomal protein L27 (Mrpl27), mRNA [NM_0531	NM_053161	-1.28458
Mus musculus chromatin accessibility complex 1 (Chrac1), mRNA [NM_05306	NM_053068	-1.25747
Centaurin, beta 2	AK129041	-1.3607
Mus musculus expressed sequence AI790326 (AI790326), mRNA [NM_13400	NM_134003	1.00842
Mus musculus nucleosome assembly protein 1-like 2 (Nap1l2), mRNA [NM_008	NM_008671	-1.01446
Mus musculus four and a half LIM domains 4 (Fhl4), mRNA [NM_010214]	NM_010214	1.14225
RIKEN cDNA 9330132E09 gene	AK033983	1.00569
Mus musculus RIKEN cDNA 2310057H16 gene (2310057H16Rik), mRNA [NM_	NM_026473	-1.22349
Mus musculus RIKEN cDNA 1810047C23 gene (1810047C23Rik), mRNA [NM_	NM_138668	-1.34136
Mus musculus RIKEN cDNA 4932438H23 gene (4932438H23Rik), mRNA [NM_	NM_028905	1
RIKEN cDNA 6230427J02 gene	AK020090	-1.00142
Mus musculus RIKEN cDNA 4930540L03 gene (4930540L03Rik), mRNA [NM_	(NM_026293	-1.64454
Opioid receptor, mu 1	AK038257	1.03218
Mus musculus NADH dehydrogenase (ubiquinone) 1 beta subcomplex 3 (Ndufb	NM_025597	-1.35989
Forty-two-three domain containing 1	AK031662	1
Mus musculus sorting nexin associated golgi protein 1 (Snag1), mRNA [NM_13	(NM_130796	-1.04602
Nuclear transcription factor-Y alpha	NM_010913	1.00366
RIKEN cDNA B930007L02 gene	AK038399	1

Mus musculus complement component 1, r subcomponent (C1r), mRNA [NM_0:NM_023143		-1.65835
Mus musculus kinesin light chain 2 (Klc2), mRNA [NM_008451]	NM_008451	1.09874
Mus musculus ribosomal protein L5 (Rpl5), mRNA [NM_016980]	NM_016980	-1.05155
Mus musculus adenosine deaminase, RNA-specific, B1 (Adarb1), mRNA [NM_1NM_130895		1.11862
Mus musculus calcitonin/calcitonin-related polypeptide, alpha (Calca), mRNA [NNM_007587		-1.01971
O-acetyltransferase	NM_145398	-1.1318
Mus musculus farnesyltransferase, CAAX box, beta (Fntb), mRNA [NM_145927 NM_145927		-1.04558
Mus musculus tripartite motif protein 29 (Trim29), mRNA [NM_023655]	NM_023655	-1.01898
RIKEN cDNA 2610109H07 gene	AK086198	-1.15428
Sacsin	AK173011	-1.05179
Mus musculus thymoma viral proto-oncogene 1 (Akt1), mRNA [NM_009652]	NM_009652	1.00138
RIKEN cDNA 4930557A04 gene	AK016155	-1.00345
Sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaph	AK052232	1.07908
Mus musculus RNA (guanine-9-) methyltransferase domain containing 2 (Rg9m	NM_175389	-1.10246
RIKEN cDNA 5330439J01 gene	BC058972	-1.09844
Mus musculus paired related homeobox 2 (Prrx2), mRNA [NM_009116]	NM_009116	-1.08832
Mus musculus piwi like homolog 1 (Drosophila) (Piwil1), mRNA [NM_021311]	NM_021311	-1.10087
Mus musculus kallikrein B, plasma 1 (KlkB1), mRNA [NM_008455]	NM_008455	1.19717
Mus musculus RIKEN cDNA 4921522P10 gene (4921522P10Rik), mRNA [NM_	NM_025726	1.08099
Centrosomal protein 2	U33198	1.02365
Mus musculus expressed sequence AW552001 (AW552001), mRNA [NM_0313NM_031375		-1.31188
Mus musculus protocadherin gamma subfamily A, 9 (Pcdhga9), mRNA [NM_03:NM_033592		1.02859
RIKEN cDNA 2610020H08 gene	BC053445	1.09774
Mus musculus C. elegans ceh-10 homeo domain containing homolog (Chx10), r	NM_007701	1.13904
Mus musculus neuraminidase 2 (Neu2), mRNA [NM_015750]	NM_015750	1.10118
Mus musculus interferon alpha family, gene 9 (Ifna9), mRNA [NM_010507]	NM_010507	1.18886
Mus musculus RIKEN cDNA A430005L14 gene (A430005L14Rik), mRNA [NM_	NM_175287	-1.2799
RIKEN cDNA 4931440B09 gene	AK016509	1.12816
Mus musculus cDNA sequence BC023818 (BC023818), mRNA [NM_198967]	NM_198967	-1.54533
Mus musculus fibroblast growth factor 12 (Fgf12), transcript variant 1, mRNA [N	NM_183064	-1.00203
RIKEN cDNA 2410003J06 gene	AK010362	-1.06626
AJ242540 hydroxyproline-rich glycoprotein DZ-HRGP {Volvox carteri f. nagariensis}, partial (7%		-1.15248
Mus musculus cDNA sequence BC024997 (BC024997), mRNA [NM_146004]	NM_146004	-1.07395
Mus musculus protein kinase C, mu (Prkcm), mRNA [NM_008858]	NM_008858	-1.33547
Mus musculus cDNA BC060737 (BC060737), mRNA [NM_172872]	NM_172872	1.00721
Mus musculus SIGLEC-like 1 (Siglecl1), mRNA [NM_031181]	NM_031181	1.11994
Mus musculus mitogen-activated protein kinase kinase kinase 6 (Map3k6), mRN	NM_016693	-1.2705
Mus musculus granzyme F (Gzmf), mRNA [NM_010374]	NM_010374	-1.27736
Mus musculus RIKEN cDNA 2810411A03 gene (2810411A03Rik), mRNA [NM_	NM_173376	-1.36213
Mus musculus unc-50 homolog (C. elegans) (Unc50), mRNA [NM_026123]	NM_026123	-1.43285
Mus musculus olfactory receptor 970 (Olfr970), mRNA [NM_146611]	NM_146611	1.08216
Mus musculus protein kinase C, delta binding protein (Prkcdbp), mRNA [NM_02	NM_028444	-1.04786
Mus musculus eukaryotic translation initiation factor 1A, Y-linked (Eif1ay), mRN	NM_025437	-1.50007
Mus musculus neural precursor cell expressed, developmentally down-regulate	NM_008683	-1.41294
Mus musculus RIKEN cDNA 1110001A07 gene (1110001A07Rik), mRNA [NM_	NM_025377	-2.01173
Protein phosphatase 1, regulatory (inhibitor) subunit 2	AK053657	-1.06076
RIKEN cDNA 6430514L14 gene	AK044090	1.01804
RIKEN cDNA 9430019C24 gene	AK020424	-1.02624
Mus musculus Sh3 domain YSC-like 1 (Sh3yl1), mRNA [NM_013709]	NM_013709	-1.34125
Mus musculus protocadherin gamma subfamily A, 7 (Pcdhga7), mRNA [NM_03:NM_033590		-1.09554
Mus musculus suppressor of cytokine signaling 7 (Socs7), mRNA [NM_138657]	NM_138657	-1.00325
Mus musculus MAS-related GPR, member A4 (Mrgpra4), mRNA [NM_153524]	NM_153524	-1.18644

Mus musculus phosphoglycerate kinase 2 (Pgk2), mRNA [NM_031190]	NM_031190	-1.00924
Mus musculus myosin, light polypeptide 1 (Myl1), mRNA [NM_021285]	NM_021285	-1.29688
5'-3' exoribonuclease 2	AK031247	-1.16126
Mus musculus vomeronasal 1 receptor, B5 (V1rb5), mRNA [NM_020521]	NM_020521	-1.04184
Mus musculus CD44 antigen (Cd44), mRNA [NM_009851]	NM_009851	1.0581
Mus musculus ankyrin repeat and SOCs box-containing protein 5 (Asb5), mRNA [NM_029569]	NM_029569	-1.02198
Vomeronasal 2, receptor, 6	AF011416	1.01176
Mus musculus RIKEN cDNA 4922504H04 gene (4922504H04Rik), mRNA [NM_177791]	NM_177791	1.02261
Mus musculus keratin complex 1, acidic, gene 4 (Krt1-4), mRNA [NM_027563]	NM_027563	1.08852
Ubiquinol cytochrome c reductase core protein 2	AK017019	-1.18539
Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, cDNA [AK048129]	AK048129	-1.24158
RIKEN cDNA 6230417E10 gene	AK036946	1.06904
Mus musculus eukaryotic translation initiation factor 2, subunit 1 alpha (Eif2s1), mRNA [NM_026114]	NM_026114	-1.35086
Mus musculus RIKEN cDNA E430034L04 gene (E430034L04Rik), mRNA [NM_011816]	NM_011816	1.22422
Unknown		1.01598
Mus musculus expressed sequence AU018778 (AU018778), mRNA [NM_144930]	NM_144930	-1.33634
Mus musculus cDNA sequence BC037135 (BC037135), mRNA [NM_173763]	NM_173763	-1.00273
Mus musculus kangai 1 (suppression of tumorigenicity 6, prostate) (Kai1), mRNA [NM_007656]	NM_007656	-1.09541
Mus musculus sarcoma amplified sequence (Sas), mRNA [NM_025982]	NM_025982	1.02587
RIKEN cDNA 1700049K14 gene	AK006746	-1.00521
Leucine rich repeat containing 28	AK050154	1.07032
Mus musculus expressed sequence AI591476 (AI591476), mRNA [NM_173406]	NM_173406	1.05898
Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed (FBR-MuSV) (NM_007990)	NM_007990	-1.01544
Hedgehog-interacting protein	AK034610	-1.10927
Mus musculus cytokine receptor-like factor 3 (Crlf3), mRNA [NM_018776]	NM_018776	-1.41191
Mus musculus RIKEN cDNA 1700025E21 gene (1700025E21Rik), mRNA [NM_029373]	NM_029373	1.02381
Mus musculus vesicle transport through interaction with t-SNAREs 1B homolog	NM_016800	-1.46967
Mus musculus F-box only protein 14 (Fbxo14), mRNA [NM_133765]	NM_133765	-1.20916
Mus musculus thyroid hormone receptor alpha (Thra), mRNA [NM_178060]	NM_178060	-1.03053
Hypothetical protein D930017F01	Y18276	-1.47096
Mus musculus olfactory receptor 556 (Olfr556), mRNA [NM_146754]	NM_146754	-1.02782
Mus musculus MyoD family inhibitor (Mdfi), mRNA [NM_010783]	NM_010783	1.03742
Mus musculus RIKEN cDNA 1500031M22 gene (1500031M22Rik), mRNA [NM_025447]	NM_025447	-1.08787
Mus musculus Prkr interacting protein 1 (IL11 inducible) (Prkrip1), mRNA [NM_025774]	NM_025774	-1.17533
Mus musculus ADP-ribosylarginine hydrolase (Adprh), mRNA [NM_007414]	NM_007414	1.08554
Mus musculus ATPase family, AAA domain containing 2 (Atad2), mRNA [NM_027435]	NM_027435	-1.14283
Olfactory receptor 18	X89686	1.11518
AGENCOURT_10203865 NIH_MGC_143 Mus musculus cDNA clone IMAGE:6481631 (BU531427)	BU531427	-1.3707
Mus musculus neuroglobin (Ngb), mRNA [NM_022414]	NM_022414	1.05805
Mus musculus RIKEN cDNA 1700034I23 gene (1700034I23Rik), mRNA [NM_028494]	NM_028494	1.11214
Mus musculus calsequestrin 2 (Casq2), mRNA [NM_009814]	NM_009814	1.01685
Mus musculus lysyl oxidase-like 2 (Loxl2), mRNA [NM_033325]	NM_033325	1.18443
RIKEN cDNA 1600029D21 gene	AK009336	-1.09085
RIKEN cDNA 4933417G07 gene	AK016844	-1.12662
Mus musculus phosphoglucomutase 2 (Pgm2), mRNA [NM_028132]	NM_028132	-1.05188
Ubiquitin specific protease 42	AK041514	1.02971
Mus musculus BMP and activin membrane-bound inhibitor, homolog (Xenopus laevis) (Xenopus laevis) (NM_026505)	NM_026505	-1.17947
Mus musculus endothelial cell-specific adhesion molecule (Esam1), mRNA [NM_027102]	NM_027102	1.18062
Transcriptional regulator, SIN3A (yeast)	NM_011378	1.02444
Mus musculus RIKEN cDNA 9530085L02 gene (9530085L02Rik), mRNA [NM_00100278]	NM_00100278	1.17572
Mus musculus cDNA sequence BC060631 (BC060631), mRNA [NM_177700]	NM_177700	-1.13627
RIKEN cDNA 2600014C01 gene	AK033267	1.0633

Mus musculus Rho GTPase activating protein 4 (Arhgap4), mRNA [NM_138630	NM_138630	1.11279
RIKEN cDNA 1700027L20 gene	AK006434	1.00174
Mus musculus testicular serine protease 1 (Tesp1), mRNA [NM_009355]	NM_009355	-1.03408
Activating signal cointegrator 1 complex subunit 3	AK021027	-1.22878
Baculoviral IAP repeat-containing 1f	AF135494	-1.03128
Mus musculus sorting nexin 24 (Snx24), mRNA [NM_029394]	NM_029394	-1.0503
Mus musculus RIKEN cDNA 2310015L07 gene (2310015L07Rik), mRNA [XM_	XM_132249	-1.09105
Synaptic nuclear envelope 2	AB093279	-1.47928
Mus musculus serum response factor (Srf), mRNA [NM_020493]	NM_020493	-1.03214
Mus musculus proacrosin binding protein (Acrbp), mRNA [NM_016845]	NM_016845	-1.12571
Mus musculus emopamil binding protein-like (Ebpl), mRNA [NM_026598]	NM_026598	1.17953
testes-specific protease 50	NM_146227	-1.04745
Mus musculus lin 7 homolog c (C. elegans) (Lin7c), mRNA [NM_011699]	NM_011699	-1.59433
Mus musculus thymosin, beta 4, X chromosome (Tmsb4x), mRNA [NM_021278	NM_021278	-1.06502
Mus musculus tudor domain containing 3 (Tdrd3), mRNA [NM_172605]	NM_172605	-1.18459
Mus musculus RIKEN cDNA 2400001E08 gene (2400001E08Rik), mRNA [NM_	NM_025605	-1.10531
RIKEN cDNA 2310011G06 gene	AK009298	1.0422
Mus musculus distal-less homeobox 2 (Dlx2), mRNA [NM_010054]	NM_010054	-1.03102
RIKEN cDNA C230075L19 gene	AK048853	-1.15409
Mus musculus cDNA sequence BC037703 (BC037703), mRNA [NM_172295]	NM_172295	1.11583
Mus musculus DNA-damage-inducible transcript 4 (Ddit4), mRNA [NM_029083]	NM_029083	-1.53728
Mus musculus mevalonate (diphospho) decarboxylase (Mvd), mRNA [NM_1386	NM_138656	1.10885
Mus musculus ankyrin repeat and SOCS box-containing protein 2 (Asb2), mRN	NM_023049	1.1919
Mus musculus forkhead box F2 (Foxf2), mRNA [NM_010225]	NM_010225	-1.70373
Mus musculus adipsin (Adn), mRNA [NM_013459]	NM_013459	-1.25608
RNA binding motif protein, X chromosome	AK083899	-1.24857
CDNA sequence BC017647	AK079318	-1.02324
Mus musculus cytochrome P450, family 2, subfamily r, polypeptide 1 (Cyp2r1),	NM_177382	1.03542
Mus musculus thrombospondin, type I, domain 2 (Thsd2), mRNA [NM_028351]	NM_028351	1.07917
Mus musculus unc-84 homolog A (C. elegans) (Unc84a), mRNA [NM_024451]	NM_024451	-1.51417
Mus musculus RIKEN cDNA 1810008A18 gene (1810008A18Rik), mRNA [NM_	NM_133998	-1.04088
Mus musculus nuclear RNA export factor 1 homolog (S. cerevisiae) (Nxf1), mRN	NM_016813	-1.02311
Mus musculus ubiquitin-conjugating enzyme E2M (UBC12 homolog, yeast) (Ubc	NM_145578	1.05201
Mus musculus RIKEN cDNA 2810021G02 gene, mRNA (cDNA clone IMAGE:34	BC002165	-1.62916
Mus musculus RIKEN cDNA 1110025F24 gene (1110025F24Rik), mRNA [NM_	NM_026393	-1.06513
Bromodomain containing 3	AF269193	1.45457
RIKEN cDNA 6230415M23 gene	AK078027	1.0347
Mus musculus procollagen C-endopeptidase enhancer 2 (Pcolce2), mRNA [NM_	NM_029620	-1.07391
Mus musculus inosine 5'-phosphate dehydrogenase 2 (Impdh2), mRNA [NM_01	NM_011830	1.01907
Mus musculus E74-like factor 3 (Elf3), mRNA [NM_007921]	NM_007921	1.02979
Mus musculus a disintegrin and metalloprotease domain 25 (testase 2) (Adam2)	NM_011781	1.21131
Mus musculus inhibitor of growth family, member 3 (Ing3), mRNA [NM_023626]	NM_023626	-1.27139
RIKEN cDNA 9530014D17 gene	AK044320	-1.00707
Mus musculus kit oncogene (Kit), mRNA [NM_021099]	NM_021099	-1.10421
Mus musculus RIKEN cDNA 1700001L23 gene (1700001L23Rik), mRNA [NM_	(NM_029299	-1.01076
Mus musculus RIKEN cDNA C730036B01 gene (C730036B01Rik), mRNA [NM_	NM_178936	-1.05639
Mus musculus mutS homolog 6 (E. coli) (Msh6), mRNA [NM_010830]	NM_010830	-1.41481
Mus musculus olfactory receptor 905 (Olfr905), mRNA [NM_146804]	NM_146804	1.06146
Mus musculus coiled-coil-helix-coiled-coil-helix domain containing 3 (Chchd3),	nNM_025336	-1.39115
Mus musculus RIKEN cDNA 1110001O19 gene (1110001O19Rik), mRNA [NM_	NM_025366	-1.23205
Mus musculus monocyte to macrophage differentiation-associated 2 (Mmd2), m	NM_175217	-1.10159
Mus musculus dual specificity phosphatase 6 (Dusp6), mRNA [NM_026268]	NM_026268	-1.24223

Mus musculus DnaJ (Hsp40) homolog, subfamily D, member 1 (Dnajd1), mRNA	NM_025384	-1.42136
Mus musculus solute carrier family 15, member 4 (Slc15a4), mRNA	[NM_13389 NM_133895]	-1.15688
RIKEN cDNA D030002E05 gene	AK034807	1.06777
Ribonucleotide reductase M2 B (TP53 inducible)	AK041510	-1.0503
Mus musculus RIKEN cDNA 2310058J06 gene (2310058J06Rik), mRNA	[NM_1 NM_133784]	1.62329
AT rich interactive domain 4A (Rbp1 like)	AK041444	-1.14596
Mus musculus karyopherin (importin) beta 3 (Kpnb3), mRNA	[NM_023579] NM_023579	-1.41756
Mus musculus regulator of G protein signaling 7 (Rgs7), mRNA	[NM_011880] NM_011880	1.04493
RIKEN cDNA A630082K20 gene	BC007161	-1.1248
Mus musculus RIKEN cDNA A030007D23 gene (A030007D23Rik), mRNA	[NM_ NM_178763]	-1.08325
Mus musculus furin (paired basic amino acid cleaving enzyme) (Furin), mRNA	[NM_011046]	-1.36591
Mus musculus prolactin-like protein C 1 (Prlpc1), mRNA	[NM_011167] NM_011167	1.14048
Mus musculus enolase 3, beta muscle (Eno3), mRNA	[NM_007933] NM_007933	-1.20876
Mus musculus deleted in neuroblastoma 5 (Dnb5), mRNA	[NM_173774] NM_173774	1.10341
Mus musculus ribosomal protein L29 (Rpl29), mRNA	[NM_009082] NM_009082	-1.01853
Mus musculus mitogen activated protein kinase kinase kinase 4 (Map3k4), mRNA	NM_011948	1.03299
Mus musculus RIKEN cDNA 4921524P20 gene (4921524P20Rik), mRNA	[NM_ NM_026641]	1.07616
hypothetical protein A030011M19	NM_177723	-1.12993
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:	AK019700	1.02687
Mus musculus olfactory receptor 1106 (Olfr1106), mRNA	[NM_146752] NM_146752	-1.02428
Mus musculus serum/glucocorticoid regulated kinase 2 (Sgk2), mRNA	[NM_013 NM_013731]	1.01739
Mus musculus olfactory receptor 295 (Olfr295), mRNA	[NM_146851] NM_146851	1.03967
Mus musculus phosphatidylinositol binding clathrin assembly protein (Picalm), n	NM_146194	-1.34134
Mus musculus fibroblast growth factor 13 (Fgf13), mRNA	[NM_010200] NM_010200	-1.01564
Mus musculus cDNA sequence BC010250 (BC010250), mRNA	[NM_178029] NM_178029	1.00127
Mus musculus RIKEN cDNA 4833428E21 gene (4833428E21Rik), mRNA	[NM_ NM_027844]	1.05945
Mus musculus guanine nucleotide binding protein, alpha inhibiting 3 (Gnai3), mF	NM_010306	-1.25339
Mus musculus RIKEN cDNA 1110020L19 gene (1110020L19Rik), transcript var	NM_207104	-1.1359
NOL1/NOP2/Sun domain family, member 5	NM_145414	-1.01264
Mus musculus RFamide-related peptide (Rfrp), mRNA	[NM_021892] NM_021892	1.07222
Mus musculus oogenesis 1 (Oog1), mRNA	[NM_178657] NM_178657	1.01937
Mus musculus cDNA sequence BC016076 (BC016076), mRNA	[NM_145444] NM_145444	1.08485
Mus musculus NAD(P)H:quinone oxidoreductase type 3, polypeptide A2 (Nqo3)	NM_028057	-1.22568
CDNA sequence BC037674	AK129105	1.01393
Mus musculus retinol binding protein 3, interstitial (Rbp3), mRNA	[NM_015745] NM_015745	1.01132
Mus musculus polymerase (RNA) III (DNA directed) polypeptide B (Polr3b), mR	NM_027423	1.07971
OLFACTORY RECEPTOR GA_X6K02T2PBJ9-10489044-10488091. [Source:SPTREMBL;Acc		1.09782
Rho GTPase activating protein 24	AK002660	-1.05561
Mus musculus cDNA sequence BC022224 (BC022224), mRNA	[NM_177564] NM_177564	1.06481
CEA-related cell adhesion molecule 1	M61907	1.00302
RIKEN cDNA 1110003E01 gene	NM_133697	-1.31227
Mus musculus glutaredoxin 1 (thioltransferase) (Glr1), mRNA	[NM_053108] NM_053108	-1.21018
Mus musculus peptidoglycan recognition protein 2 (Pglyrp2), mRNA	[NM_02131 NM_021319]	1.04421
Mus musculus protein tyrosine phosphatase, non-receptor type 9 (Ptpn9), mRN	NM_019651	-1.19976
RIKEN cDNA B430306D02 gene	AK045586	1.02608
RIKEN cDNA 6720473M11 gene	AK020158	1.29844
Mus musculus brain expressed X-linked 2 (Bex2), mRNA	[NM_009749] NM_009749	-1.45271
Mus musculus RIKEN cDNA 5330402L21 gene (5330402L21Rik), mRNA	[XM_ XM_127606]	-1.04562
Mus musculus zinc finger protein, subfamily 1A, 4 (Eos) (Zfpn1a4), mRNA	[NM_ NM_011772]	1.13657
Mus musculus cytoglobin (Cygb), mRNA	[NM_030206] NM_030206	1.05807
similar to hypothetical protein FLJ10706	NM_201364	-1.12983
13 days embryo heart cDNA, RIKEN full-length enriched library, clone:D330029	AK052331	-1.16117

Mus musculus RIKEN cDNA 2810439F02 gene (2810439F02Rik), mRNA [NM_008:NM_028341]		-1.11774
Mus musculus HGF-regulated tyrosine kinase substrate (Hgs), mRNA [NM_008:NM_008244]		1.17325
Mus musculus homeo box C4 (Hoxc4), mRNA [NM_013553]	NM_013553	1.25997
RIKEN cDNA 4933405I11 gene	AF218265	-1.14935
Mus musculus gamma-aminobutyric acid (GABA-C) receptor, subunit rho 2 (Gabra2), mRNA [NM_008076]		-1.00501
Mus musculus RIKEN cDNA 2610020O08 gene (2610020O08Rik), mRNA [NM_025937]		-1.0644
Mus musculus cDNA sequence BC042593 (BC042593), mRNA [NM_182959]	NM_182959	1.03257
Mus musculus epidermal growth factor receptor (Egfr), transcript variant 2, mRNA [NM_007912]		-1.01688
Mus musculus 5-hydroxytryptamine (serotonin) receptor 6 (Htr6), mRNA [NM_021358]		1.06809
Mus musculus protocadherin gamma subfamily A, 1 (Pcdhga1), mRNA [NM_033584]		1.04208
Protein Z, vitamin K-dependent plasma glycoprotein	AK005011	-1.08746
Mus musculus RIKEN cDNA E430004F17 gene (E430004F17Rik), mRNA [NM_183199]		-1.02332
Mus musculus matrix metalloproteinase 7 (Mmp7), mRNA [NM_010810]	NM_010810	1.10047
RIKEN cDNA 4921510J17 gene	BC050801	1.01579
Mus musculus lymphocyte antigen 75 (Ly75), mRNA [NM_013825]	NM_013825	-1.09465
Mus musculus heterogeneous nuclear ribonucleoprotein M (Hnrpm), mRNA [NM_029804]		-1.45368
Mus musculus somatostatin receptor 2 (Sstr2), mRNA [NM_009217]	NM_009217	-1.03221
RIKEN cDNA 9030205A07 Gene	AK033900	1.07218
Immunoglobulin kappa chain variable 5 (V5 family)	U26471	1.05548
Mus musculus syntaxin 8 (Stx8), mRNA [NM_018768]	NM_018768	-1.23354
Mus musculus C1q and tumor necrosis factor related protein 1 (C1qtnf1), mRNA [NM_019959]		1.18804
Mucoepidermoid carcinoma translocated 1	AK048204	1.00736
RIKEN cDNA 2900006K08 gene	AK013494	-1.21637
Mus musculus tachykinin receptor 3 (Tacr3), mRNA [NM_021382]	NM_021382	1.19199
Mus musculus choline kinase beta (Chkb), mRNA [NM_007692]	NM_007692	1.01331
Mus musculus proteasome (prosome, macropain) subunit, alpha type 5 (Pasma5), mRNA [NM_011967]		-1.16314
RIKEN cDNA 2310047B19 gene	AK009864	1.05799
Mus musculus ORM1-like 3 (S. cerevisiae) (Ormdl3), mRNA [NM_025661]	NM_025661	1.10569
Mus musculus one cut domain, family member 3 (Onecut3), mRNA [NM_139221]	NM_139226	1.02629
Mus musculus ATPase, H+ transporting, V1 subunit F (Atp6v1f), mRNA [NM_022538]	NM_025381	-1.19482
Tetratricopeptide repeat domain 13	BC017545	-1.05896
Mus musculus RIKEN cDNA A830020B06 gene (A830020B06Rik), mRNA [NM_175564]		-1.40471
Mus musculus netrin 1 (Ntn1), mRNA [NM_008744]	NM_008744	1.05892
Mus musculus disrupted in schizophrenia 1 (Disc1), mRNA [NM_174854]	NM_174854	1.18753
Mus musculus microsomal triglyceride transfer protein (Mttp), mRNA [NM_008642]	NM_008642	1.03385
Mus musculus olfactory receptor 731 (Olfr731), mRNA [NM_146363]	NM_146363	-1.01682
Mus musculus homeo box B3 (Hoxb3), mRNA [NM_010458]	NM_010458	1.21044
Mus musculus resistin like alpha (Retnla), mRNA [NM_020509]	NM_020509	-1.28318
Guanylate cyclase 1, soluble, alpha 2	AK083525	1.11367
Olfactory receptor 804	AF178752	1.07162
Mouse angiotensin-converting enzyme mRNA, 3' end, clone ACE.11.	J04947	-1.18959
Mus musculus RIKEN cDNA 1200002M06 gene (1200002M06Rik), mRNA [NM_027873]		-1.09364
RIKEN cDNA C630043F03 gene	AK043880	-1.04143
Mus musculus Musashi homolog 2 (Drosophila) (Msi2), mRNA [NM_054043]	NM_054043	1.02578
Mus musculus cDNA sequence BC012256 (BC012256), mRNA [NM_145532]	NM_145532	1.05454
hypothetical Pseudouridine synthase I structure containing protein [2810021I11]		-1.16121
Reticulon 3	AY427822	-1.62149
Mus musculus DNA segment, Chr 13, Brigham & Women's Genetics 1146 expression	NM_029879	1.0532
CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 2	AK017654	-1.05157
Mus musculus RIKEN cDNA 0610007H07 gene (0610007H07Rik), mRNA [NM_026617]		-1.25036
Mus musculus gasdermin domain containing 1 (Gsdmdc1), mRNA [NM_026960]	NM_026960	1.06215
Mus musculus coagulation factor V (F5), mRNA [NM_007976]	NM_007976	-1.12997

C-type lectin domain family 2, member d	NM_053109	1.10187
Mus musculus suppressor of hairy wing homolog 3 (Drosophila) (Suhw3), mRNA [NM_153532]	NM_153532	-1.567
Mus musculus tumor-associated calcium signal transducer 2 (Tacstd2), mRNA [NM_020047]	NM_020047	-1.00574
Mus musculus O-sialoglycoprotein endopeptidase (Osgp), mRNA [NM_133676]	NM_133676	-1.31803
Mus musculus RIKEN cDNA 4932423M01 gene (4932423M01Rik), mRNA [NM_029256]	NM_029256	1.07819
Mus musculus t-complex protein 1 (Tcp1), mRNA [NM_013686]	NM_013686	-1.54078
Mus musculus solute carrier family 35, member C2 (Slc35c2), mRNA [NM_144893]	NM_144893	1.08029
Mus musculus RIKEN cDNA D330024H06 gene (D330024H06Rik), mRNA [NM_181404]	NM_181404	-1.1449
hypothetical protein E130304D01	NM_173403	1.08755
Mus musculus similar to hypothetical protein MGC35179 (LOC327959), mRNA [XM_282966]	XM_282966	1
Aldehyde dehydrogenase 16 family, member A1	BC030467	-1.1084
Nucleoporin like 2	AK078478	-1.01028
RIKEN cDNA 4632409L19 gene	AK028804	1.08998
Mus musculus RIKEN cDNA C130096D04 gene (C130096D04Rik), mRNA [NM_177190]	NM_177190	1.0645
Mus musculus H1 histone family, member O, oocyte-specific (H1foo), mRNA [NM_138311]	NM_138311	-1.61763
Mus musculus RIKEN cDNA 2010204I15 gene (2010204I15Rik), mRNA [NM_146133]	NM_146133	1.07323
Mus musculus calcium channel, voltage-dependent, gamma subunit 3 (Cacng3)	NM_019430	1.09478
Mus musculus EST AI463102 (AI463102), mRNA [NM_145937]	NM_145937	-1.29898
Latrophilin 1	AK013763	1.00612
Mus musculus cadherin 13 (Cdh13), mRNA [NM_019707]	NM_019707	1.07979
Mus musculus coactosin-like 1 (Dictyostelium) (Cot1), mRNA [NM_028071]	NM_028071	-1.1116
Mus musculus PR domain containing 1, with ZNF domain (Prdm1), mRNA [NM_007548]	NM_007548	-1.08022
RIKEN cDNA C330018D20 gene	AK021208	-1.3717
Mus musculus inhibitor of kappa light polypeptide enhancer in B-cells, kinase co	NM_026079	-1.3266
Mus musculus meiosis-specific nuclear structural protein 1 (Mns1), mRNA [NM_008613]	NM_008613	-1.06446
Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 8 (Dnajc8), mRNA [NM_172400]	NM_172400	-1.19747
Mus musculus RIKEN cDNA 1110012E06 gene (1110012E06Rik), mRNA [NM_029097]	NM_029097	-1.00167
Mus musculus pre-B-cell colony-enhancing factor 1 (Pbef1), mRNA [NM_021524]	NM_021524	-1.42079
Mus musculus latent transforming growth factor beta binding protein 1 (Ltbp1), t	NM_019919	-1.08718
Serine hydroxymethyl transferase 1 (soluble)	AK010198	-1.22393
Mus musculus procollagen, type XV (Col15a1), mRNA [NM_009928]	NM_009928	1.37001
Dehydrogenase/reductase (SDR family) X chromosome	AJ296079	1.09224
Mus musculus synuclein, alpha (Snca), mRNA [NM_009221]	NM_009221	-1.12942
RIKEN cDNA 2310066N05 gene	NM_027371	-1.49238
Mus musculus sex comb on midleg-like 4 (Drosophila) (Scml4), mRNA [NM_172938]	NM_172938	1.43038
Mus musculus immunoglobulin superfamily, member 6 (Igsf6), mRNA [NM_030691]	NM_030691	-1.28866
Mus musculus tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activat	NM_011740	1.24036
RIKEN cDNA 2210010C17 gene	AK033677	-1.00753
RIKEN cDNA 2210019E14 gene	AK008753	-1.03981
KH-type splicing regulatory protein	BC064454	1.92041
Mus musculus RIKEN cDNA 2010107K23 gene (2010107K23Rik), mRNA [NM_023788]	NM_023788	-1.01623
Ethanolamine kinase 2	AY212244	1.00331
Ankyrin repeat domain 33	NM_144790	1.08741
Fc receptor, IgE, high affinity I, gamma polypeptide	AI326608	1.06855
Mus musculus WW domain binding protein 4 (Wbp4), mRNA [NM_018765]	NM_018765	-1.17914
Mus musculus YTH domain family 3 (Ythdf3), mRNA [NM_172677]	NM_172677	-1.21662
Mus musculus gene model 461, (NCBI) (Gm461), mRNA [NM_198622]	NM_198622	1.116
Expressed sequence AU020206	AK049415	-1.01421
Mus musculus RIKEN cDNA 6230416J20 gene (6230416J20Rik), mRNA [NM_173400]	NM_173400	-1.15475
Mus musculus olfactory receptor 1234 (Olfr1234), mRNA [NM_146973]	NM_146973	1.10038
Mus musculus vomeronasal 1 receptor, F2 (V1rf2), mRNA [NM_134199]	NM_134199	1.01137
Mus musculus ribonuclease P 21kDa subunit (human) (Rpp21), mRNA [NM_026308]	NM_026308	-1.03142

Mus musculus zinc finger protein 263 (Zfp263), mRNA [NM_148924]	NM_148924	-1.00112
Mus musculus mucolin3 (Mcoln3), mRNA [NM_134160]	NM_134160	-1.01988
Elastase 1, pancreatic	AK007931	-1.0548
PHD finger protein 21A	NM_138755	1.13668
Mus musculus bone morphogenetic protein 10 (Bmp10), mRNA [NM_009756]	NM_009756	1.01049
Mus musculus olfactory receptor 1246 (Olfr1246), mRNA [NM_146792]	NM_146792	1.04297
RIKEN cDNA B130005I07 gene	AK044820	1.09688
Mus musculus RIKEN cDNA 4933405I11 gene (4933405I11Rik), mRNA [NM_183101]	NM_183101	1.04514
PREDICTED: Mus musculus similar to RIKEN cDNA 6030426L16 (LOC382713)	AK050906	-1.04022
Mus musculus similar to monoclonal antibody heavy chain (LOC380824), mRNA [XM_138369]	XM_138369	1.02361
Mus musculus synaptogyrin 1 (Syng1), transcript variant 1b, mRNA [NM_009303]	NM_009303	-1.07844
Mus musculus ferroxidase (Fech), mRNA [NM_007998]	NM_007998	-1.78657
Mus musculus expressed sequence AW550801 (AW550801), mRNA [NM_177325]	NM_177325	-1.05045
Testis-specific protein, Y-encoded-like 5	AK087510	-1.03217
Dopamine receptor D1 interacting protein	AK002979	1.09909
Mus musculus tissue inhibitor of metalloproteinase 4 (Timp4), mRNA [NM_080639]	NM_080639	-1.34537
Expressed sequence AW107703	BC048718	-1.12771
Mus musculus coronin, actin binding protein 2A (Coro2a), mRNA [NM_178893]	NM_178893	-1.25048
Mus musculus FBJ osteosarcoma oncogene B (Fosb), mRNA [NM_008036]	NM_008036	-1.01035
Transmembrane emp24 domain containing 1	NM_010744	-1.17445
Mus musculus nischarin (Nisch), mRNA [NM_022656]	NM_022656	1.00005
Mus musculus RAD9 homolog (S. pombe) (Rad9), mRNA [NM_011237]	NM_011237	-1.11267
Mus musculus mitofusin 2 (Mfn2), mRNA [NM_133201]	NM_133201	-1.25075
Nuclear transcription factor, X-box binding-like 1	BC032981	-1.11611
Mus musculus RIKEN cDNA 5730405K23 gene (5730405K23Rik), mRNA [XM_128377]	XM_128377	1.09333
Hypothetical gene supported by AK032594	X00172	-1.16695
Mus musculus serine/threonine kinase 3 (Ste20, yeast homolog) (Stk3), mRNA [NM_019635]	NM_019635	-1.27924
Mus musculus syntaxin 4A (placental) (Stx4a), mRNA [NM_009294]	NM_009294	-1.04961
Mus musculus RIKEN cDNA F730014I05 gene (F730014I05Rik), mRNA [NM_146129]	NM_146129	-1.00707
Inositol hexaphosphate kinase 1	AK006216	-1.15953
Nuclear receptor subfamily 2, group F, member 2	X76653	1.50315
RIKEN cDNA 4930547N16 gene	AK030970	1.06594
Mus musculus RIKEN cDNA 6530401D17 gene (6530401D17Rik), mRNA [NM_029541]	NM_029541	-1.00667
Hypothetical D930050J11	U07617	-1.11009
Hook homolog 1 (Drosophila)	AK049897	1.05117
Transmembrane protein 39a	NM_026407	-1.2654
RIKEN cDNA C230043N17 gene	AK082385	1.10364
RIKEN cDNA 0610007P22 gene	BC022659	1.06622
Mus musculus forkhead box D1 (Foxd1), mRNA [NM_008242]	NM_008242	1.06286
Mus musculus RIKEN cDNA 4930555P18 gene (4930555P18Rik), mRNA [NM_175226]	NM_175226	-1.53648
Thioredoxin interacting protein	AK004653	-1.14251
Mus musculus RIKEN cDNA 4632423N09 gene (4632423N09Rik), mRNA [NM_134030]	NM_134030	-1.26794
Mus musculus COMM domain containing 2 (Comm2), mRNA [NM_175095]	NM_175095	1.0186
Mus musculus hepatic nuclear factor 4 (Hnf4), mRNA [NM_008261]	NM_008261	1.14485
Mus musculus ameloblastin (Ambn), mRNA [NM_009664]	NM_009664	1.13736
Mus musculus keratin associated protein 3-3 (Krtap3-3), mRNA [NM_025524]	NM_025524	-1.4342
RIKEN cDNA 1700018C11 gene	BC048618	1.09248
Mus musculus NSFL1 (p97) cofactor (p47) (Nsf1c), mRNA [NM_198326]	NM_198326	1.02298
Cysteine-rich motor neuron 1	AF168680	-1.00277
Mus musculus PYD and CARD domain containing (Pycard), mRNA [NM_023258]	NM_023258	-1.18667
Mus musculus olfactory receptor 531 (Olfr531), mRNA [NM_146953]	NM_146953	1.06958
Mus musculus selectin, platelet (Selp), mRNA [NM_011347]	NM_011347	1.05785

Transmembrane emp24 domain containing 3	NM_025360	-1.16845
Mus musculus transformation related protein 53 binding protein 2 (Trp53bp2), mRNA	NM_173378	-1.28572
Mus musculus discs, large homolog 3 (Drosophila) (Dlgh3), mRNA [NM_016747NM_016747		-1.39705
Mus musculus thioredoxin domain containing 2 (spermatozoa) (Txndc2), mRNA	NM_153519	-1.01374
Mus musculus RIKEN cDNA G630024C07 gene (G630024C07Rik), mRNA [NM NM_177362		1.14533
Urocortin 2	AF331517	1.04014
Mus musculus odd Oz/ten-m homolog 2 (Drosophila) (Odz2), mRNA [NM_0118:NM_011856		1.05536
Mus musculus RIKEN cDNA 2010016B13 gene (2010016B13Rik), mRNA [NM_ NM_183253		-1.06739
Mus musculus 18-day embryo whole body cDNA, RIKEN full-length enriched lib	AK004226	1.26942
Mus musculus defensin beta 6 (Defb6), mRNA [NM_054074]	NM_054074	1.11572
Mus musculus catenin alpha 2 (Catna2), mRNA [NM_009819]	NM_009819	-1.09582
RIKEN cDNA 4933433C11 gene	AK017033	1.03654
Mus musculus abl-interactor 2 (Abi2), mRNA [NM_198127]	NM_198127	-1.22671
Mus musculus elastase 3B, pancreatic (Ela3b), mRNA [NM_026419]	NM_026419	1.05607
Mus musculus olfactory receptor 1057 (Olfr1057), mRNA [NM_207563]	NM_207563	-1.04937
Mus musculus SH3-domain GRB2-like 1 (Sh3gl1), mRNA [NM_013664]	NM_013664	1.02971
Mus musculus caspase 8 associated protein 2 (Casp8ap2), mRNA [NM_011997NM_011997		-1.02939
Mus musculus caudal type homeo box 4 (Cdx4), mRNA [NM_007674]	NM_007674	-1.00326
Mus musculus aldo-keto reductase family 1, member C6 (Akr1c6), mRNA [NM_ NM_030611		1.01091
RIKEN cDNA D130073L02 gene	AK008216	1.06389
Mus musculus four and a half LIM domains 3 (Fhl3), mRNA [NM_010213]	NM_010213	1.04316
Mus musculus fructose biphosphatase 1 (Fbp1), mRNA [NM_019395]	NM_019395	1.04645
Mus musculus polymerase (RNA) II (DNA directed) polypeptide A (Polr2a), mRNA	NM_009089	1.22701
Mus musculus olfactory receptor 44 (Olfr44), mRNA [NM_146830]	NM_146830	-1.05409
Mus musculus serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), me	NM_025867	-1.12784
Mus musculus cerberus 1 homolog (Xenopus laevis) (Cer1), mRNA [NM_00988 NM_009887		1.00869
RIKEN cDNA 5430432P15 gene	BC063101	-1.32525
Mus musculus glycogen synthase 2 (Gys2), mRNA [NM_145572]	NM_145572	1.00497
Mus musculus ribosomal protein L26 (Rpl26), mRNA [NM_009080]	NM_009080	-1.25609
Mus musculus dachshund 2 (Drosophila) (Dach2), mRNA [NM_033605]	NM_033605	-1.12403
Mus musculus solute carrier family 38, member 1 (Slc38a1), mRNA [NM_13408 NM_134086		1.08279
Mus musculus anthrax toxin receptor 1 (Antxr1), mRNA [NM_054041]	NM_054041	-1.21237
Mus musculus RIKEN cDNA D230012E17 gene (D230012E17Rik), mRNA [NM_ NM_175508		-1.02487
Mus musculus adrenergic receptor kinase, beta 1 (Adrbk1), mRNA [NM_13086 NM_130863		1.00509
Mus musculus RIKEN cDNA 4432417N03 gene (4432417N03Rik), mRNA [NM_ NM_145824		1.06285
Mus musculus leucine rich repeat protein 3, neuronal (Lrrn3), mRNA [NM_0107:NM_010733		-1.45217
Mus musculus apolipoprotein C-III (ApoC3), mRNA [NM_023114]	NM_023114	1.04705
Mus musculus eukaryotic elongation factor, selenocysteine-tRNA-specific (Eefsr	NM_023060	1.08639
Mus musculus olfactory receptor 1111 (Olfr1111), mRNA [NM_146593]	NM_146593	1.03311
Mus musculus apolipoprotein C-IV (ApoC4), mRNA [NM_007385]	NM_007385	1.04323
Mus musculus potassium channel tetramerisation domain containing 8 (Kctd8),	NM_175519	-1.15671
Mus musculus RIKEN cDNA D130040H23 gene (D130040H23Rik), mRNA [NM NM_172491		-1.24114
Mus musculus galanin receptor 2 (Galr2), mRNA [NM_010254]	NM_010254	1.06756
Mus musculus glutamate receptor, metabotropic 1 (Grm1), mRNA [NM_016976]NM_016976		-1.03179
Mus musculus intersex-like (Drosophila) (Ix1), mRNA [NM_026042]	NM_026042	1.05321
Mus musculus RIKEN cDNA 2310002J15 gene (2310002J15Rik), mRNA [NM_ (NM_026415		-1.01374
Mus musculus RIKEN cDNA 2410004A20 gene (2410004A20Rik), mRNA [NM_ NM_025890		1.01454
Testis expressed gene 261	AK013971	1.20427
RIKEN cDNA A630039F14 gene	AK035850	-1.0148
M-phase phosphoprotein 10 (U3 small nucleolar ribonucleoprotein)	BC049270	-1.85316
RIKEN cDNA 1110033I14 gene	AK004064	1.18325
RIKEN cDNA 5031408O05 gene	AK030291	1.13355

RIKEN cDNA 0610025P10 gene	BC023037	-1.07421
Mus musculus dystrophia myotonica kinase, B15 (Dm15), mRNA [NM_032418]	NM_032418	1.27005
Nuclear factor, interleukin 3, regulated	NM_017373	1.09296
RIKEN cDNA 9330107J05 gene	AK015271	1.05013
AV075202 Mus musculus stomach C57BL/6J adult Mus musculus cDNA clone	AV075202	1.12854
Rap guanine nucleotide exchange factor (GEF) 6	AK045540	1.34435
Mus musculus calpain 2 (Capn2), mRNA [NM_009794]	NM_009794	-1.26118
Mus musculus ubiquitin carboxyl-terminal esterase L4 (Uchl4), mRNA [NM_033607]	NM_033607	-1.88947
Mus musculus mitogen activated protein kinase kinase 8 (Map3k8), mRNA [NM_007746]	NM_007746	-1.3023
Mus musculus RIKEN cDNA 4930526D03 gene (4930526D03Rik), mRNA [NM_199023]	NM_199023	1.11854
Mus musculus olfactory receptor 283 (Olfr283), mRNA [NM_147036]	NM_147036	1.07094
Mus musculus melatonin receptor 1B (Mtnr1b), mRNA [NM_145712]	NM_145712	1.00299
Mus musculus mutY homolog (E. coli) (Mutyh), mRNA [NM_133250]	NM_133250	1.09002
Mus musculus secretory carrier membrane protein 2 (Scamp2), mRNA [NM_022813]	NM_022813	1.18382
Mus musculus catenin alpha 1 (Catna1), mRNA [NM_009818]	NM_009818	-1.08165
Mus musculus arylsulfatase A (Arsa), mRNA [NM_009713]	NM_009713	-1.22039
RIKEN cDNA 2600014C01 gene	BC027339	-1.07114
Mus musculus a disintegrin and metalloprotease domain 3 (cyritestin) (Adam3),	NM_009619	1.07844
Similar to MHC class I antigen precursor	AK037859	1
Mus musculus secretory carrier membrane protein 4, mRNA (cDNA clone MGC:	BC060071	1.07913
Mus musculus cystatin B (Cstb), mRNA [NM_007793]	NM_007793	1.00014
Mus musculus dedicator of cyto-kinesis 2 (Dock2), mRNA [NM_033374]	NM_033374	1.08945
Hyaluronoglucosaminidase 4	AK014599	1.03625
Mus musculus activin A receptor, type 1B (Acvr1b), mRNA [NM_007395]	NM_007395	1.09441
Mus musculus ATP synthase, H ⁺ transporting, mitochondrial F1F0 complex, subunit	NM_007507	1.22453
Mus musculus adult retina cDNA, RIKEN full-length enriched library, clone:A93C	AK044390	1.02963
Glutamine repeat protein 1	U46463	1.07255
RIKEN cDNA 2610002J23 gene	AK011292	-1.4056
Mus musculus PHD finger protein 7 (Phf7), mRNA [NM_027949]	NM_027949	1.10863
Mus musculus defensin beta 12 (Defb12), mRNA [NM_152802]	NM_152802	-1.03523
RIKEN cDNA 4930528G09 gene	AK015926	-1.37218
hypothetical 2Fe-2S ferredoxin-like structure containing protein [1700054H16]		1.17723
Mus musculus F-box only protein 25 (Fbxo25), mRNA [NM_025785]	NM_025785	-1.11408
RIKEN cDNA 4833421E05 gene	AK014743	1.24398
Mus musculus ribosomal protein L12 (Rpl12), mRNA [NM_009076]	NM_009076	-1.21976
Mus musculus expressed sequence AL022610 (AL022610), mRNA [NM_13394]	NM_13394	-1.17241
Methylcrotonoyl-Coenzyme A carboxylase 2 (beta)	BC027640	-1.14475
Mus musculus zinc finger protein 219 (Zfp219), mRNA [NM_027248]	NM_027248	-1.00101
Hydroxysteroid dehydrogenase-2, delta⁵-3-beta	BC002224	-1.19608
Unknown		1.09048
Mus musculus RIKEN cDNA 1700016G05 gene (1700016G05Rik), mRNA [NM_026317]	NM_026317	1.23484
Mus musculus UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide	NM_019835	-1.24795
Mus musculus RIKEN cDNA 5330431K02 gene (5330431K02Rik), mRNA [NM_026606]	NM_026606	1.08975
Mus musculus ankyrin repeat and SOCS box-containing protein 14 (Asb14), mRNA	NM_080856	-1.09738
Thioredoxin 2	U85089	-1.05653
Mus musculus ADP-ribosylation factor related protein 2 (Arfrp2), mRNA [NM_172595]	NM_172595	-1.87528
Mus musculus angiopoietin-like 4 (Angptl4), mRNA [NM_020581]	NM_020581	-1.17224
Ubiquitin specific protease 34	AK129165	-1.11294
Mus musculus PERP, TP53 apoptosis effector (Perp), mRNA [NM_022032]	NM_022032	-1.46127
SLIT and NTRK-like family, member 2	AK044761	-1.01774
Mus musculus nuclear receptor subfamily 2, group E, member 3 (Nr2e3), mRNA	NM_013708	1.19496
Mus musculus target of myb1 homolog (chicken) (Tom1), mRNA [NM_011622]	NM_011622	1.16126

Mus musculus interleukin 8 receptor, alpha (Il8ra), mRNA [NM_178241]	NM_178241	-1.09363
Mus musculus apoptotic protease activating factor 1 (Apaf1), mRNA [NM_009684]	NM_009684	-1.43855
Mus musculus raf-related oncogene (Araf), mRNA [NM_009703]	NM_009703	-1.02119
Mus musculus DNA segment, Chr 10, Brigham & Women's Genetics 0791 expr	NM_133745	-1.53978
Mus musculus cytochrome P450, family 3, subfamily a, polypeptide 13 (Cyp3a1)	NM_007819	-1.13086
Mus musculus ubiquitin-associated protein 1 (Ubp1), mRNA [NM_023305]	NM_023305	-1.31898
Mus musculus keratin associated protein 9-1 (Krtap9-1), mRNA [NM_015741]	NM_015741	-1.03029
RIKEN cDNA 1500034J20 gene	AK078300	-1.30839
Mus musculus RIKEN cDNA 1700010O16 gene (1700010O16Rik), mRNA [NM_026205]	NM_026205	1.12766
Mus musculus three prime repair exonuclease 2 (Trex2), mRNA [NM_011907]	NM_011907	1.07644
Nuclear domain 10 protein 52	AK010816	1.11666
Mus musculus RIKEN cDNA 2310075G12 gene (2310075G12Rik), mRNA [NM_027162]	NM_027162	-1.18157
Mus musculus RIKEN cDNA 1810023F06 gene (1810023F06Rik), mRNA [NM_145449]	NM_145449	-1.12581
RIKEN cDNA 2310005C01 gene	AK009163	1.07152
Mus musculus steroid 5 alpha-reductase 2-like (Srd5a2l), mRNA [NM_020611]	NM_020611	-1.03136
Mus musculus ectonucleoside triphosphate diphosphohydrolase 5 (Entpd5), mRNA [NM_007647]	NM_007647	1.01283
Mus musculus olfactory receptor 686 (Olfr686), mRNA [NM_147069]	NM_147069	1.03753
Mus musculus human immunodeficiency virus type I enhancer binding protein 3	NM_010657	-1.15752
Mus musculus Friend virus susceptibility 1 (Fv1), mRNA [NM_010244]	NM_010244	1.10342
Mus musculus fibrinogen, alpha polypeptide (Fga), mRNA [NM_010196]	NM_010196	1.05019
RIKEN cDNA 4930438O03 gene	BC019987	1.30926
Mus musculus RIKEN cDNA 2610312E17 gene (2610312E17Rik), mRNA [NM_027432]	NM_027432	-1.13216
Mus musculus G protein-coupled receptor kinase 1 (Grk1), mRNA [NM_011881]	NM_011881	-1.04953
Mus musculus NACHT, leucine rich repeat and PYD containing 5 (Nalp5), mRNA [NM_011860]	NM_011860	-1.00928
Mus musculus potassium voltage-gated channel, shaker-related subfamily, member 1	NM_008418	1.09571
RIKEN cDNA B930012P20 gene	AK037061	-1.00119
Mus musculus cDNA sequence U55872 (U55872), mRNA [NM_020571]	NM_020571	1
SIMILARITIES. ALTERNATIVE NAME FOR THIS GENE IS NG34. [Source:SPTREMBL;Acc:Q		
Mus musculus inter-alpha trypsin inhibitor, heavy chain 1 (Itih1), mRNA [NM_008406]	NM_008406	1.07565
Mus musculus 7-dehydrocholesterol reductase (Dhcr7), mRNA [NM_007856]	NM_007856	-1.18877
Mus musculus RIKEN cDNA 1110036H21 gene (1110036H21Rik), mRNA [NM_025404]	NM_025404	-1.04881
Echinoderm microtubule associated protein like 1	BC053094	-1.30466
Mus musculus RIKEN cDNA 5730406I15 gene (5730406I15Rik), mRNA [NM_025668]	NM_025668	-1.27002
Transmembrane protease, serine 11b	NM_177024	-1.03655
Mus musculus enoyl Coenzyme A hydratase, short chain, 1, mitochondrial (Ech1)	NM_053119	-1.30426
Mus musculus RIKEN cDNA 2610510D13 gene (2610510D13Rik), transcript variant 1	NM_146130	-1.30407
Mus musculus olfactory receptor 1093 (Olfr1093), mRNA [NM_146366]	NM_146366	1.0367
Mus musculus olfactory receptor 394 (Olfr394), mRNA [NM_147007]	NM_147007	1.0221
Solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 1	NM_178386	1.03692
RIKEN cDNA 1700029M20 gene	AK006510	1.03523
Mus musculus polymerase (DNA directed), alpha 2 (Pola2), mRNA [NM_008893]	NM_008893	1.03979
Mus musculus cartilage oligomeric matrix protein (Comp), mRNA [NM_016685]	NM_016685	1.17605
Mus musculus histocompatibility 2, Q region locus 5 (H2-Q5), mRNA [NM_010393]	NM_010393	1.24866
Mus musculus CD209a antigen (Cd209a), mRNA [NM_133238]	NM_133238	1.07561
Mus musculus dehydrogenase/reductase (SDR family) member 1 (Dhrs1), mRNA [NM_026819]	NM_026819	-1.05825
Mus musculus phosphoribosyl pyrophosphate synthetase 2 (Prps2), mRNA [NM_026662]	NM_026662	-1.30231
Mucin and cadherin like	AK027913	1.16957
Mus musculus gem (nuclear organelle) associated protein 7 (Gemin7), mRNA [NM_027189]	NM_027189	-1.14819
Mus musculus adult male pituitary gland cDNA, RIKEN full-length enriched library	AK019935	-1.01938
Mus musculus cerebellin 3 precursor protein (Cbln3), mRNA [NM_019820]	NM_019820	-1.00608
Mus musculus expressed sequence AV028368 (AV028368), mRNA [NM_177672]	NM_177672	1.09911
Mus musculus solute carrier family 1 (neutral amino acid transporter), member 5	NM_009201	1.11532

Mus musculus RIKEN cDNA 4930591A17 gene (4930591A17Rik), mRNA [NM_	NM_026596	1.05776
Mus musculus olfactory receptor 1408 (Olf1408), mRNA [NM_146764]	NM_146764	1.09715
RIKEN cDNA 4921511H13 gene	AK029516	1.03359
Mus musculus receptor tyrosine kinase-like orphan receptor 1 (Ror1), mRNA [N	NM_013845	1.02743
Mus musculus ATP synthase mitochondrial F1 complex assembly factor 2 (Atpa	NM_145427	1.03823
Filamin, alpha	BC038478	-1.06067
Mus musculus pyrimidinerbic receptor P2Y, G-protein coupled, 6 (P2ry6), mRN	NM_183168	-1.00782
Single-strand selective monofunctional uracil DNA glycosylase	AK020817	1.22342
DNA segment, Chr 1, ERATO Doi 471, expressed	G49232	1.00039
Mus musculus syntrophin, basic 2 (Sntb2), mRNA [NM_009229]	NM_009229	1.09535
Mus musculus synaptotagmin binding, cytoplasmic RNA interacting protein (Syn	NM_019666	-1.06729
Mus musculus bile acid-Coenzyme A: amino acid N-acyltransferase (Baat), mRI	NM_007519	1
Protocadherin 19	AK046726	1.02699
Breakpoint cluster region homolog	BC060270	1.07058
Mus musculus RIKEN cDNA C130052I12 gene (C130052I12Rik), mRNA [NM_1	NM_146047	1.14235
Mus musculus cDNA sequence BC025474 (BC025474), mRNA [NM_172473]	NM_172473	-1.28672
Mus musculus nuclear protein 1 (Nupr1), mRNA [NM_019738]	NM_019738	-1.23933
CDNA clone MGC:7817 IMAGE:3500159, complete cds	BC006653	1.22686
Mus musculus hypothetical protein B130008E12 (B130008E12), mRNA [XM_13	XM_137316	1.08434
Mus musculus B-cell leukemia/lymphoma 11B (Bcl11b), mRNA [NM_021399]	NM_021399	1.19057
Paired immunoglobulin-like type 2 receptor alpha	AK041670	-1.09797
Mus musculus cyclin J (Ccnj), mRNA [NM_172839]	NM_172839	-1.54163
Mus musculus RIKEN cDNA 1810044E12 gene (1810044E12Rik), mRNA [XM_	XM_355529	-1.21607
Polycystic kidney and hepatic disease 1-like 1	AB055648	1.13303
Mus musculus RIKEN cDNA 3110070M22 gene (3110070M22Rik), mRNA [NM_	NM_026084	-1.25521
SM-11044 binding protein	NM_133352	-1.34366
Mus musculus LIM and senescent cell antigen like domains 2 (Lims2), mRNA [N	NM_144862	-1.18276
RIKEN cDNA B930007P11 gene	AK014270	1.28319
Mus musculus eyes absent 1 homolog (Drosophila) (Eya1), mRNA [NM_010164	NM_010164	1.01963
Mus musculus RIKEN cDNA E330021D16 gene (E330021D16Rik), mRNA [NM_	NM_175527	1.0248
Mus musculus NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7 (Nduft	NM_025843	-1.10389
Mus musculus cDNA sequence BC023814 (BC023814), mRNA [NM_153562]	NM_153562	-1.01067
Mus musculus SNF2 histone linker PHD RING helicase (Shprh), mRNA [NM_17	NM_172937	1.06422
Mus musculus expressed sequence AI427652 (AI427652), mRNA [NM_177756	NM_177756	-1.17479
Mus musculus solute carrier family 34 (sodium phosphate), member 2 (Slc34a2	NM_011402	-1.04267
Mus musculus ADAM-like, decysin 1 (Adamdec1), mRNA [NM_021475]	NM_021475	-1.15596
Mus musculus dynein, axonemal, intermediate chain 1 (Dnaic1), mRNA [NM_17	NM_175138	1.11788
Mus musculus deltex 2 homolog (Drosophila) (Dtx2), mRNA [NM_023742]	NM_023742	1.11767
Mus musculus DNA segment, Chr 11, Lothar Hennighausen 2, expressed (D111	NM_030150	1.04457
Mus musculus RIKEN cDNA 4930550L24 gene (4930550L24Rik), mRNA [NM_	(NM_023774	-1.0703
Mus musculus zinc finger protein 105 (Zfp105), mRNA [NM_009544]	NM_009544	-1.0355
Mus musculus SH3-domain kinase binding protein 1 (Sh3kbp1), mRNA [NM_02	NM_021389	-1.08208
Mus musculus wild-type p53-induced gene 1 (Wig1), mRNA [NM_009517]	NM_009517	-1.21745
Mus musculus regulatory factor X domain containing 1 (Rfxdc1), mRNA [NM_17	NM_177306	1.03879
RIKEN cDNA 9930021F22 gene	AK079438	1.07163
Mus musculus calpastatin (Cast), mRNA [NM_009817]	NM_009817	-1.32122
Mus musculus RIKEN cDNA D130054N24 gene (D130054N24Rik), mRNA [NM_	NM_178709	-1.00203
Mus musculus olfactory receptor 716 (Olf716), mRNA [NM_146604]	NM_146604	1.01417
Mus musculus SRY-box containing gene 4 (Sox4), mRNA [NM_009238]	NM_009238	-1.03373
Mus musculus popeye domain containing 2 (Popdc2), mRNA [NM_022318]	NM_022318	1.08431
Mus musculus phosphatidylinositol glycan, class N (Pign), mRNA [NM_013784]	NM_013784	1.08215
Mus musculus RIKEN cDNA B230378H13 gene (B230378H13Rik), transcript ve	NM_177089	1.14191

Mus musculus small nuclear ribonucleoprotein polypeptide A' (Snrpa1), mRNA [NM_021336		-1.10825
Mus musculus olfactory receptor 313 (Olfr313), mRNA [NM_146536]	NM_146536	1.1973
Mus musculus pre B-cell leukemia transcription factor 3 (Pbx3), mRNA [NM_016768]	NM_016768	1.03458
Mus musculus RIKEN cDNA 6330406P08 gene (6330406P08Rik), mRNA [NM_028710]	NM_028710	1.00116
Mus musculus leucine carboxyl methyltransferase 1 (Lcmt1), mRNA [NM_025304]	NM_025304	-1.19397
Mus musculus RAB34, member of RAS oncogene family (Rab34), mRNA [NM_033475]	NM_033475	1.14398
Mus musculus RIKEN cDNA A930001N09 gene (A930001N09Rik), mRNA [NM_029870]	NM_029870	1.02359
Olfactory receptor 93	BU935563	1.10355
Mus musculus NADPH dependent diflavin oxidoreductase 1 (Ndor1), mRNA [NM_178239]	NM_178239	1.07045
Mus musculus O-acyltransferase (membrane bound) domain containing 2 (Oact)	NM_026037	-1.05389
Mus musculus vomeronasal 1 receptor, F4 (V1rf4), mRNA [NM_134201]	NM_134201	1.13393
Mus musculus chaperonin subunit 6b (zeta) (Cct6b), mRNA [NM_009839]	NM_009839	-1.14387
Mus musculus heat shock protein 1-like (Hspa1l), mRNA [NM_013558]	NM_013558	-1.01064
Cell growth regulator with ring finger domain 1	BC037677	1.05266
Mus musculus predicted gene ICRFP703B1614Q5.5 (ICRFP703B1614Q5.5), mRNA [NM_020609]	NM_020609	1.05473
Mus musculus ubiquitin-conjugating enzyme E2, J2 homolog (yeast) (Ube2j2), mRNA [NM_021402]	NM_021402	-1.0154
Unknown		1.01895
Mus musculus protease, serine, 22 (Prss22), mRNA [NM_133731]	NM_133731	1.08018
Expressed sequence AA536749	AK019637	1.13009
Homeo box B2	AK036636	1.4763
Mus musculus similar to XIAP associated factor-1 (LOC380706), mRNA [XM_354621]	XM_354621	1.07785
Mus musculus fibroblast growth factor 11 (Fgf11), mRNA [NM_010198]	NM_010198	1.01536
Mus musculus olfactory receptor 16 (Olfr16), mRNA [NM_008763]	NM_008763	1.05499
Adult male olfactory brain cDNA, RIKEN full-length enriched library, clone:64305	AK032247	1.13473
Mus musculus RIKEN cDNA A330064G03 gene (A330064G03Rik), mRNA [NM_177214]	NM_177214	-1.03844
Mus musculus DNA segment, Chr 3, Wayne State University 161, expressed (D)	NM_138593	-1.02784
F-box and WD-40 domain protein 8	AK015338	-1.07047
Mus musculus exonuclease 1 (Exo1), mRNA [NM_012012]	NM_012012	-1.11894
Inhibitor of DNA binding 4	NM_031166	-1.12025
Mus musculus snail homolog 3 (Drosophila) (Snai3), mRNA [NM_013914]	NM_013914	-1.02198
Potassium voltage-gated channel, subfamily H (eag-related), member 6	AK038513	1.00989
Mannoside acetylglucosaminyltransferase 4, isoenzyme A	AK019839	1
Mus musculus eukaryotic translation initiation factor 5A2 (Eif5a2), mRNA [NM_177586]	NM_177586	-1.17078
Mus musculus CWF19-like 2, cell cycle control (S. pombe) (Cwf19l2), mRNA [NM_027545]	NM_027545	-1.85131
Mus musculus secretory granule neuroendocrine protein 1, 7B2 protein (Sgne1)	NM_009162	-1.04961
Mus musculus olfactory receptor 618 (Olfr618), mRNA [NM_147047]	NM_147047	1.01157
RRN3 RNA polymerase I transcription factor homolog (yeast)	AK021410	-1.03158
Neurobeachin like 1	AK040951	1.28759
Mus musculus cDNA sequence BC004022 (BC004022), mRNA [NM_030563]	NM_030563	-1.04121
Mus musculus RIKEN cDNA 1500019O16 gene (1500019O16Rik), mRNA [NM_027328]	NM_027328	-1.01405
Mus musculus cellular nucleic acid binding protein 1 (Cnbp1), mRNA [NM_013493]	NM_013493	-1.67515
Mus musculus ubiquitin specific protease 18 (Usp18), mRNA [NM_011909]	NM_011909	-1.03255
Mus musculus thiamin pyrophosphokinase (Tpk1), mRNA [NM_013861]	NM_013861	-1.07315
Mus musculus nidogen 1 (Nid1), mRNA [NM_010917]	NM_010917	-1.4399
Mus musculus asporin (Aspn), mRNA [NM_025711]	NM_025711	-1.90823
Metastasis-associated gene family, member 2	NM_011842	-1.04731
Mus musculus expressed in non-metastatic cells 4, protein (Nme4), mRNA [NM_019731]	NM_019731	1.08536
Mus musculus tumor necrosis factor superfamily, member 5-induced protein 1 (TNFSF10)	NM_134138	-1.09819
Mus musculus RIKEN cDNA 0610011D08 gene (0610011D08Rik), mRNA [NM_025647]	NM_025647	-1.49122
3-hydroxy-3-methylglutaryl-Coenzyme A reductase	M62766	-1.132
CREB-binding protein [mice, brain, mRNA Partial, 7326 nt].	S66385	1.06105
Mus musculus RIKEN cDNA 6430548M08 gene (6430548M08Rik), mRNA [NM_172286]	NM_172286	1.02405

Mus musculus olfactory receptor 791 (Olf791), mRNA [NM_146930]	NM_146930	1.04726
Mus musculus cadherin 3 (Cdh3), mRNA [NM_007665]	NM_007665	1.00429
Mus musculus cathepsin K (Ctsk), mRNA [NM_007802]	NM_007802	-1.21378
RIKEN cDNA 6030458C11 gene	AK038561	-1.35264
Mus musculus olfactory receptor 599 (Olf599), mRNA [NM_146731]	NM_146731	-1.00476
Mus musculus RIKEN cDNA 4933405A16 gene (4933405A16Rik), mRNA [NM_028943]	NM_028943	1.26149
Mus musculus neurofilament, light polypeptide (Nefl), mRNA [NM_010910]	NM_010910	1.00694
Mus musculus 15 days embryo head cDNA, RIKEN full-length enriched library, clone:4933405A16Rik	AK052949	1.06811
Nebulin	U58108	-1.23241
hypothetical protein 9130014G24	NM_172547	1.04902
mammalian retrotransposon derived 8c	AK003646	-1.06522
A kinase (PRKA) anchor protein 6	AK129115	-1.00614
Mus musculus ribosomal protein S16 (Rps16), mRNA [NM_013647]	NM_013647	1.06915
Solute carrier family 36 (proton/amino acid symporter), member 1	AK017918	-1.16057
Mus musculus regulator of G-protein signaling 3 (Rgs3), mRNA [NM_019492]	NM_019492	-1.06863
Mus musculus phosphoinositide-dependent kinase-2 (Pdk2), mRNA [NM_023508]	NM_023508	-1.03013
Mus musculus transmembrane protein 19 (Tmem19), mRNA [NM_133683]	NM_133683	-1.05687
RIKEN cDNA C130038G02 gene	AK032239	-1.20056
AP2 associated kinase 1	AK011997	1.11391
Mus musculus RIKEN cDNA 4732481H14 gene (4732481H14Rik), mRNA [NM_172468]	NM_172468	1.35619
Mus musculus cyclin D2 (Ccnd2), mRNA [NM_009829]	NM_009829	1.01568
Mus musculus RIKEN cDNA 1700023A18 gene (1700023A18Rik), mRNA [NM_029595]	NM_029595	-1.05795
Mus musculus RAB32, member RAS oncogene family (Rab32), mRNA [NM_026405]	NM_026405	-1.48783
Mus musculus adult male urinary bladder cDNA, RIKEN full-length enriched library, clone:4933405A16Rik	AK035623	-1.03289
Mus musculus mitochondrial ribosomal protein S23 (Mrps23), mRNA [NM_024174]	NM_024174	-1.16077
Mus musculus pyruvate carboxylase (Pcx), mRNA [NM_008797]	NM_008797	1.16554
Monogenic, audiogenic seizure susceptibility 1	AF405692	1.01809
Unknown		1.08823
Mus musculus dual specificity phosphatase 1 (Dusp1), mRNA [NM_013642]	NM_013642	1.01374
Adult male testis cDNA, RIKEN full-length enriched library, clone:4931419M04	AK029875	-1.10168
Mus musculus paired-like homeobox 2b (Phox2b), mRNA [NM_008888]	NM_008888	1.06189
Mus musculus basic helix-loop-helix domain containing, class B2 (Bhlhb2), mRNA [NM_011498]	NM_011498	-1.08183
Kelch-like 14 (Drosophila)	AK018108	1
Mus musculus cDNA sequence BC003266 (BC003266), mRNA [NM_030252]	NM_030252	-1.00698
Mus musculus RIKEN cDNA 2810451A06 gene (2810451A06Rik), mRNA [NM_176835]	NM_176835	-1.04484
Mus musculus B-box and SPRY domain containing (Bspry), mRNA [NM_138655]	NM_138655	-1.26001
RIKEN cDNA C330023M02 gene	AK049325	-1.2637
Mus musculus RIKEN cDNA D030010E02 gene (D030010E02Rik), mRNA [NM_172873]	NM_172873	1.01587
Mus musculus growth hormone inducible transmembrane protein (Ghitm), mRNA [NM_078478]	NM_078478	-1.31226
Mus musculus RIKEN cDNA 2610017G09 gene (2610017G09Rik), mRNA [NM_028121]	NM_028121	-1.17139
Mus musculus solute carrier family 22 (organic cation transporter), member 2 (SNM2), mRNA [NM_013667]	NM_013667	1.04832
Mus musculus transducin-like enhancer of split 6, homolog of Drosophila E(spl)	NM_053254	-1.2657
Mus musculus nuclear receptor subfamily 3, group C, member 1 (Nr3c1), mRNA [NM_008173]	NM_008173	-1.05214
Cofactor required for Sp1 transcriptional activation, subunit 2	AB019028	-1.19621
Mus musculus vesicle transport through interaction with t-SNAREs homolog 1A	NM_016862	1.05444
Mus musculus golgi phosphoprotein 2 (Golp2), mRNA [NM_027307]	NM_027307	-1.12036
Mus musculus cDNA sequence BC029169 (BC029169), mRNA [NM_153782]	NM_153782	-1.01588
Ankyrin repeat and SOCS box-containing protein 1	AK122456	-1.05829
Keratin complex 2, basic, gene 1	AK029748	1.04988
Mus musculus 12 days embryo male wolffian duct includes surrounding region c	AK032954	1.09819
Unknown		1.12841
Mus musculus capping protein (actin filament), gelsolin-like (Capg), mRNA [NM_007599]	NM_007599	1.14679

Mus musculus eukaryotic translation initiation factor 4E like 3 (Eif4e13), mRNA [NM_023314]		-1.03959
Optic atrophy 1 homolog (human)	AK122311	-1.21484
Mus musculus cDNA sequence BC003262 (BC003262), mRNA [NM_145552]	NM_145552	-1.24584
Mus musculus serine/threonine kinase 22B (spermiogenesis associated) (Stk22)	NM_009436	1.11097
Dehydrogenase/reductase (SDR family) member 9	NM_175512	1
Mus musculus prostaglandin-endoperoxide synthase 2 (Ptgs2), mRNA [NM_011198]	NM_011198	-1.52926
RIKEN cDNA 1700034K16 gene	AK006601	1.15316
Mus musculus hypothetical protein 9430004M15 (9430004M15), mRNA [NM_177728]	NM_177728	1
Actin-binding LIM protein 1	BC032216	1.14745
Mus musculus RIKEN cDNA 6330505F04 gene (6330505F04Rik), mRNA [NM_172779]	NM_172779	-1.22445
Mus musculus cDNA sequence BC027344 (BC027344), mRNA [NM_173738]	NM_173738	1.06177
Mus musculus radixin (Rdx), mRNA [NM_009041]	NM_009041	-1.44087
Mus musculus receptor (TNFRSF)-interacting serine-threonine kinase 1 (Ripk1)	NM_009068	1.22207
Mus musculus phosphatidylinositol glycan, class M (Pigm), mRNA [NM_026234]	NM_026234	1.00142
Mus musculus zinc finger, DHHC domain containing 16 (Zdhhc16), mRNA [NM_023740]	NM_023740	-1.09384
Mus musculus RIKEN cDNA A230062G08 gene (A230062G08Rik), mRNA [NM_173765]	NM_173765	1.03187
Mus musculus cDNA sequence BC022641 (BC022641), mRNA [NM_181594]	NM_181594	-1.09917
Mus musculus fatty acid desaturase 2 (Fads2), mRNA [NM_019699]	NM_019699	-1.1847
Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 6 (Abcb6)	NM_023732	1.0312
Mus musculus FYN binding protein (Fyb), mRNA [NM_011815]	NM_011815	-1.06704
Mus musculus deltex 4 homolog (Drosophila) (Dtx4), mRNA [NM_172442]	NM_172442	-1.18361
RIKEN cDNA 4833423E24 gene	AK036825	1.0393
Mus musculus centromere autoantigen A (Cenpa), mRNA [NM_007681]	NM_007681	-1.32151
Mus musculus RIKEN cDNA 5730438N18 gene (5730438N18Rik), mRNA [NM_027460]	NM_027460	-1.13338
membrane progesterin receptor alpha	NM_027995	1.10913
Mus musculus expressed sequence C80638 (C80638), mRNA [NM_178877]	NM_178877	1.00337
Phosphatase and actin regulator 2	BC012871	-1.08878
Serine (or cysteine) proteinase inhibitor, clade F, member 2	NM_008878	1.02025
Mus musculus kinesin family member 4 (Kif4), mRNA [NM_008446]	NM_008446	-1.10046
Mus musculus sestrin 2 (Sesn2), mRNA [NM_144907]	NM_144907	1.00466
Mus musculus similar to Sodium [XM_355283]	XM_355283	1.02227
Caspase recruitment domain family, member 11	AK002346	-1.00068
Mus musculus LIM domain binding 1 (Ldb1), mRNA [NM_010697]	NM_010697	1.20963
Mus musculus RIKEN cDNA 2010111I01 gene (2010111I01Rik), mRNA [XM_127387]	XM_127387	-1.03198
Sorbin and SH3 domain containing 1	AK020592	-1.02099
Mus musculus RIKEN cDNA 1700011A15 gene (1700011A15Rik), mRNA [NM_025487]	NM_025487	1.0443
RIKEN cDNA 2810008M24 gene	AK088529	-1.63636
Zinc finger, DHHC domain containing 9	AK035745	1
Mus musculus phosphatidylinositol-4-phosphate 5-kinase-like 1 (Pip5k1), mRNA [NM_198191]	NM_198191	1.17188
Mus musculus RIKEN cDNA 4931406C07 gene (4931406C07Rik), mRNA [NM_133732]	NM_133732	-1.74567
Mus musculus RIKEN cDNA 5830417C01 gene (5830417C01Rik), mRNA [NM_024282]	NM_024282	-1.24192
DNA segment, Chr 17, Wayne State University 155, expressed	AK084443	1.03021
Mus musculus adaptor-related protein complex AP-4, sigma 1 (Ap4s1), mRNA [NM_021710]	NM_021710	-1.36873
Mus musculus cDNA sequence BC023892 (BC023892), mRNA [XM_135029]	XM_135029	1.00865
Mus musculus RIKEN cDNA 9530077C05 gene (9530077C05Rik), mRNA [NM_026739]	NM_026739	-1.09392
Mus musculus olfactory receptor 943 (Olfr943), mRNA [NM_146326]	NM_146326	1.03656
repressor of GATA	NM_021397	1.11987
Mus musculus nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1 (NFATc1), mRNA [NM_010901]	NM_010901	1.09571
Mus musculus olfactory receptor 70 (Olfr70), mRNA [NM_019485]	NM_019485	1.09991
Mus musculus expressed sequence AI854408 (AI854408), mRNA [NM_172538]	NM_172538	1.02042
Mus musculus olfactory receptor 1448 (Olfr1448), mRNA [NM_146701]	NM_146701	-1.06654
Mus musculus UBX domain containing 4 (Ubx4), mRNA [NM_145441]	NM_145441	1.15142

Mus musculus ephrin A4 (Efna4), mRNA [NM_007910]	NM_007910	1.12122
Mus musculus adaptor-related protein complex 3, mu 1 subunit (Ap3m1), mRNA [NM_018829]	NM_018829	-1.16992
Mus musculus RIKEN cDNA 2810012K13 gene (2810012K13Rik), mRNA [XM_0127336]	XM_0127336	1.01041
Mus musculus RIKEN cDNA 4930563D23 gene (4930563D23Rik), mRNA [NM_029252]	NM_029252	-1.00052
RIKEN cDNA 1110065D03 gene	BE995132	-1.228
Mus musculus zinc finger protein 112 (Zfp112), mRNA [NM_021307]	NM_021307	-1.13407
NudC domain containing 2	NM_026023	-1.68206
Mus musculus interferon regulatory factor 6 (Irf6), mRNA [NM_016851]	NM_016851	-1.3681
signaling intermediate in Toll pathway-evolutionarily conserved	NM_012029	-1.19832
Mus musculus similar to cytochrome P450 4A1 (LOC277830), mRNA [NM_201640]	NM_201640	1.18759
Filamin, alpha	BC038478	1.04379
Mus musculus ankyrin repeat and SOCS box-containing 18 (Asb18), mRNA [NM_139152]	NM_139152	1.03771
Mus musculus hydroxysteroid (17-beta) dehydrogenase 4 (Hsd17b4), mRNA [NM_008292]	NM_008292	-1.16343
Mus musculus olfactory receptor 651 (Olf651), mRNA [NM_146813]	NM_146813	1.01207
Mus musculus B-cell CLL/lymphoma 9-like (Bcl9l), mRNA [NM_030256]	NM_030256	-1.01453
CSA-conditional, T cell activation-dependent protein	NM_030137	-1.00887
Mus musculus SWI/SNF related, matrix associated, actin dependent regulator of transcription 4 (SMAD4), mRNA [NM_011417]	NM_011417	1.55357
Ubiquitin-like 4	BF138649	-1.10605
RIKEN cDNA 2610207I05 gene	AK129136	-1.11756
Mus musculus zinc finger protein 192 (Zfp192), mRNA [NM_139141]	NM_139141	1.00249
Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 16 (Slc16a16), mRNA [NM_146136]	NM_146136	-1.28517
Junction adhesion molecule 2	NM_023844	-1.35428
RIKEN cDNA 1600014C23 gene	AK005450	1.01805
RIKEN cDNA 1700019A02 gene	AK006101	-1.03224
Mitochondrial carrier homolog 1 (C. elegans)	NM_019880	1.13735
Mus musculus vomeronasal 1 receptor, A4 (V1ra4), mRNA [NM_053219]	NM_053219	-1.00524
Mus musculus cDNA sequence BC016226 (BC016226), mRNA [NM_145443]	NM_145443	-1.03955
Mus musculus ubiquitin-conjugating enzyme E2N (Ube2n), mRNA [NM_080560]	NM_080560	-1.40047
RIKEN cDNA 1300010F03 gene	AK033642	-1.01432
Mus musculus DNA-damage-inducible transcript 4-like (Ddit4l), mRNA [NM_030143]	NM_030143	-1.23705
CD300A antigen	NM_170758	1.08859
Mus musculus neutral sphingomyelinase (N-SMase) activation associated factor 1 (NSAF1), mRNA [NM_010945]	NM_010945	-1.14926
Mus musculus angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (Ace2), mRNA [NM_027286]	NM_027286	-1.01905
Mus musculus solute carrier family 8 (sodium/calcium exchanger), member 2 (Slc8a2), mRNA [NM_148946]	NM_148946	1.1857
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK016518	AK016518	1.07874
Mus musculus ROD1 regulator of differentiation 1 (S. pombe) (Rod1), mRNA [NM_144904]	NM_144904	-1.06021
Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 1 (Dnajc1), mRNA [NM_007869]	NM_007869	-1.09763
Mus musculus RIKEN cDNA 2810021B07 gene (2810021B07Rik), mRNA [NM_025479]	NM_025479	-1.57032
Mus musculus syntaxin 7 (Stx7), mRNA [NM_016797]	NM_016797	-1.15356
Mus musculus huntingtin interacting protein 2 (Hip2), mRNA [NM_016786]	NM_016786	-1.23049
Mus musculus expressed sequence A1836003 (A1836003), mRNA [NM_177716]	NM_177716	1.04115
Mus musculus adult male diencephalon cDNA, RIKEN full-length enriched library, clone: AK034263	AK034263	-1.05414
Eukaryotic translation initiation factor 5B	AK037432	-1.16204
Mus musculus B-cell translocation gene 3 (Btg3), mRNA [NM_009770]	NM_009770	-1.35194
RasGEF domain family, member 1A	AK018120	-1.21474
Mus musculus influenza virus NS1A binding protein (Ivns1abp), mRNA [NM_054102]	NM_054102	-1.26898
UI-M-A10-aaq-b-05-0-UI.s1 NIH_BMAP_MBS Mus musculus cDNA clone UI-M-A10-aaq-b-05-0-UI.s1	AI835779	1.11251
Mus musculus syntrophin (Snph), mRNA [NM_198214]	NM_198214	-1.06093
Mus musculus glutamate receptor interacting protein 1 (Grip1), mRNA [NM_028736]	NM_028736	1.14944
Mus musculus peptidylprolyl isomerase C (Ppic), mRNA [NM_008908]	NM_008908	-1.59533
Mus musculus RIKEN cDNA 4933405K18 gene (4933405K18Rik), mRNA [NM_175296]	NM_175296	1.14879
Mus musculus calreticulin (Calr), mRNA [NM_007591]	NM_007591	1.03774

Mus musculus heterogeneous nuclear ribonucleoproteins methyltransferase-like	NM_019830	-1.16884
Mus musculus translocator of inner mitochondrial membrane 17b (Timm17b), m	NM_011591	1.11489
RIKEN cDNA 2310007F21 gene	BC027311	-1.34112
Mus musculus insulin-like growth factor binding protein 1 (Igfbp1), mRNA [NM_	(NM_008341	-1.10684
Mus musculus zinc finger, FYVE domain containing 16 (Zfyve16), mRNA [NM_1	NM_173392	-1.35165
Mus musculus neuregulin 4 (Nrg4), mRNA [NM_032002]	NM_032002	1.03969
Mus musculus ring finger protein 128 (Rnf128), mRNA [NM_023270]	NM_023270	-1.26598
Mus musculus RIKEN cDNA 9930022N03 gene (9930022N03Rik), mRNA [NM_	NM_177363	-1.0607
Mus musculus glycosylphosphatidylinositol specific phospholipase D1 (Gpld1), r	NM_008156	1.09333
Zinc finger, DHHC domain containing 6	AK077693	-1.01151
Mus musculus olfactory receptor 1299 (Olfr1299), mRNA [NM_146884]	NM_146884	-1.018
Mus musculus troponin T2, cardiac (Tnnt2), mRNA [NM_011619]	NM_011619	1.05105
Mus musculus G protein-coupled receptor, family C, group 5, member D (Gprc5	NM_053118	1.0783
Mus musculus solute carrier family 35, member F1 (Slc35f1), mRNA [NM_1786	NM_178675	-1.06008
Mus musculus solute carrier family 4, sodium bicarbonate cotransporter-like, me	NM_033552	1.11163
Mus musculus LIM homeobox protein 2 (Lhx2), mRNA [NM_010710]	NM_010710	-1.02898
Unknown		1.06783
Mus musculus FK506 binding protein 1b (Fkbp1b), mRNA [NM_016863]	NM_016863	-1.04223
Mus musculus membrane-bound transcription factor protease, site 2 (Mbtps2), r	NM_178266	-1.05638
Mus musculus phosphodiesterase 1C (Pde1c), mRNA [NM_011054]	NM_011054	1.06484
Mus musculus four jointed box 1 (Drosophila) (Fjx1), mRNA [NM_010218]	NM_010218	1.06235
Mus musculus RIKEN cDNA 2310022A10 gene (2310022A10Rik), mRNA [NM_	NM_175107	-1.15044
Splicing factor, arginine/serine-rich 2, interacting protein	AK012092	-1.16617
Mus musculus limb and neural patterns (Lnp), mRNA [NM_027133]	NM_027133	-1.05398
Golgi coiled coil 1	AK032253	-1.05245
RAB12, member RAS oncogene family	AK081084	1.15965
similar to cytochrome P450, 4a10	NM_177406	1.06616
Mus musculus latent transforming growth factor beta binding protein 2 (Ltbp2), r	NM_013589	-1.02453
Mus musculus glycoprotein 2 (zymogen granule membrane) (Gp2), mRNA [NM_	NM_025989	1.03343
RIKEN cDNA 0610007L01 gene	AK002297	-1.26454
Mus musculus I(3)mbt-like 2 (Drosophila) (L3mbtl2), mRNA [NM_145993]	NM_145993	-1.06019
Myosin IXa	AK028873	-1.04982
GCN1 general control of amino-acid synthesis 1-like 1 (yeast)	AB093217	1.2048
Mus musculus RIKEN cDNA 9030603L14 gene (9030603L14Rik), mRNA [NM_	(NM_026239	-1.16156
RIKEN cDNA 6530402F18 gene	AK011411	-1.0259
Mus musculus alanine-glyoxylate aminotransferase 2-like 1 (Agxt2l1), mRNA [N	NM_027907	1.00759
Mus musculus RIKEN cDNA 6530411B15 gene (6530411B15Rik), mRNA [NM_	NM_029537	-1.05957
Mus musculus alcohol dehydrogenase 1 (class I) (Adh1), mRNA [NM_007409]	NM_007409	-1.23904
Mus musculus septin 4 (Sept4), mRNA [NM_011129]	NM_011129	-1.09766
Mus musculus spermatogenesis associated 5 (Spata5), mRNA [NM_021343]	NM_021343	-1.67172
Mus musculus interferon-induced protein with tetratricopeptide repeats 2 (Ifit2), i	NM_008332	-1.30088
hypothetical protein 4732416F18	NM_173031	1.03051
Mus musculus RIKEN cDNA 1700123O20 gene (1700123O20Rik), mRNA [NM_	NM_021437	-1.67083
RIKEN cDNA 2410131K14 gene	AK090380	1.0393
Mus musculus eukaryotic translation initiation factor 4E nuclear import factor 1 (	NM_023743	-1.27267
Mus musculus zinc finger, DHHC domain containing 20 (Zdhhc20), mRNA [XM_	XM_127421	1.07497
Mus musculus RIKEN cDNA 1110012J17 gene (1110012J17Rik), mRNA [NM_1	NM_172963	1.01433
Mus musculus RIKEN cDNA 1110007L15 gene (1110007L15Rik), mRNA [NM_	(NM_026269	-1.43046
Midkine	NM_010784	-1.10262
Mus musculus cytochrome P450, family 8, subfamily b, polypeptide 1 (Cyp8b1),	NM_010012	-1.08153
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:	AK015560	1.0518
Testis expressed gene 27	M19413	1.08577

Mus musculus RIKEN cDNA 1110008P14 gene (1110008P14Rik), mRNA [NM_	NM_198001	1.12168
Mus musculus acidic (leucine-rich) nuclear phosphoprotein 32 family, member E	NM_023210	-1.1288
Mus musculus integrin beta 6 (Itgb6), mRNA [NM_021359]	NM_021359	2.03463
Chloride channel 1	X62895	1.21069
Mus musculus 2'-5' oligoadenylate synthetase 1C (Oas1c), mRNA [NM_033541	NM_033541	-1.15076
Unknown		1.10396
Mus musculus ryanodine receptor 2, cardiac (Ryr2), mRNA [NM_023868]	NM_023868	1.25337
Mus musculus RIKEN cDNA 2410014A08 gene (2410014A08Rik), mRNA [NM_	NM_175403	-1.06501
Mus musculus olfactory receptor 909 (Olfr909), mRNA [NM_146873]	NM_146873	1.15525
Synapsin I	AK083149	1.05408
Cardiomyopathy associated 4	AK005634	1.1445
Mus musculus adult retina cDNA, RIKEN full-length enriched library, clone:A93C	AK044315	-1.11133
Mus musculus claudin 16 (Cldn16), mRNA [NM_053241]	NM_053241	1.02325
RIKEN cDNA 1110014N23 gene	AK014229	-1.08276
Mus musculus uridine-cytidine kinase 1-like 1 (Uckl1), mRNA [NM_026765]	NM_026765	-1.15714
Mus musculus ribosomal protein L3 (Rpl3), mRNA [NM_013762]	NM_013762	-1.02237
Expressed sequence AI846133	AK032440	1
Rab6 interacting protein 2	AK014066	1.03361
Mus musculus UV radiation resistance associated gene (Uvrag1), mRNA [NM_1	NM_178635	-1.17387
Sestrin 1	BC055753	-1.34833
Mus musculus cDNA sequence AF322649 (AF322649), mRNA [NM_153134]	NM_153134	1.21591
Mus musculus RIKEN cDNA 1700021I09 gene (1700021I09Rik), mRNA [NM_0:	NM_026277	-1.07429
hypothetical protein F730023N20	NM_183158	-1.0312
Mus musculus cholinergic receptor, muscarinic 5 (Chrm5), mRNA [NM_205783]	NM_205783	1.00644
Mus musculus solute carrier family 6 (neurotransmitter transporter), member 18	NM_011730	-1.09175
Mus musculus ATPase, Ca ⁺⁺ transporting, plasma membrane 3 (Atp2b3), mRN	NM_177236	1.02191
Mus musculus hypothetical protein, MNCb-4779 (AB041550), mRNA [NM_0214	NM_021418	1.13028
Mus musculus RIKEN cDNA 9430023B20 gene (9430023B20Rik), mRNA [NM_	NM_177595	-1.03646
Mus musculus tachykinin 2 (Tac2), mRNA [NM_009312]	NM_009312	1.11844
Mus musculus RIKEN cDNA B130055A05 gene (B130055A05Rik), mRNA [NM_	NM_183193	1.0661
Mus musculus phosphatase, orphan 1 (Phospho1), mRNA [NM_153104]	NM_153104	1.09729
Mus musculus ureidopropionase, beta (Upb1), mRNA [NM_133995]	NM_133995	-1.04031
Aurora kinase B	BC003261	-1.62204
RIKEN cDNA 1110034N17 gene	BC020352	1.073
RIKEN cDNA 4930533K18 gene	AK015956	1.06577
Mus musculus olfactory receptor 586 (Olfr586), mRNA [NM_147111]	NM_147111	1.00939
Mus musculus transcription factor 3 (Tcf3), mRNA [NM_009332]	NM_009332	1.13972
RIKEN cDNA 5031434C07 gene	AK030322	1.08764
RIKEN cDNA E130306I01 gene	AK053747	1.02616
Mus musculus RIKEN cDNA 1700024D23 gene (1700024D23Rik), mRNA [NM_	NM_029911	-1.02116
Mus musculus tetratricopeptide repeat domain 8 (Ttc8), transcript variant 1, mR	NM_029553	-1.16137
0 day neonate lung cDNA, RIKEN full-length enriched library, clone:E030010F1:	AK053130	1.14284
Mus musculus elaC homolog 2 (E. coli) (Elac2), mRNA [NM_023479]	NM_023479	-1.01263
Mus musculus endoplasmic reticulum protein 29 (Erp29), mRNA [NM_026129]	NM_026129	-1.21242
Mus musculus vomeronasal 1 receptor, I4 (V1ri4), mRNA [NM_134221]	NM_134221	1.2224
RIKEN cDNA 4933427G17 gene	AK016951	1.147
RIKEN cDNA 4930505A04 gene	AK015698	1.13897
Mus musculus aldo-keto reductase family 1, member B7 (Akr1b7), mRNA [NM_	NM_009731	1.05463
RIKEN cDNA 2810455K09 gene	AK013356	-1.03274
Mus musculus G2 protein (G2-pending), mRNA [XM_141380]	XM_141380	1.0527
Mus musculus cDNA sequence BC004044 (BC004044), mRNA [NM_030565]	NM_030565	1.04366
Nuclear distribution gene E homolog 1 (A nidulans)	NM_023317	-1.04618

Glutamate receptor, ionotropic, delta 1	AK039103	-1.02292
InaD-like (Drosophila)	AF060539	-1.29191
Mus musculus RIKEN cDNA C330021F16 gene (C330021F16Rik), mRNA [XM_XM_109652		1.19764
Mus musculus cathepsin D (Ctsd), mRNA [NM_009983]	NM_009983	1.01234
Mus musculus RIKEN cDNA 2610041B18 gene (2610041B18Rik), mRNA [NM_NM_027264		1.05259

Notch gene homolog 3, (Drosophila)	NM_008716	-1.02665
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Mus musculus calcium binding protein 39 (Cab39), mRNA [NM_133781]	NM_133781	1.06808
Mus musculus RIKEN cDNA 2700017M01 gene (2700017M01Rik), mRNA [NM_028292]	NM_028292	1.00724
RIKEN cDNA 1700036A12 gene	AK006609	1.0498
Regulating synaptic membrane exocytosis 1	BC055294	-1.00642
DNA segment, Chr 14, ERATO Doi 209, expressed	AK032357	1.01658
ribosomal protein L18	NM_009077	-1.09178
Hypothetical LOC382245	AK018228	-1.05818
Mus musculus GTP binding protein 5 (Gtpbp5), mRNA [NM_181424]	NM_181424	1.09281
Mus musculus calcium binding atopy-related autoantigen 1 (Cbara1), mRNA [NM_144822]	NM_144822	1.09287
Mus musculus flavin containing monooxygenase 4 (Fmo4), mRNA [NM_144878]	NM_144878	1.11062
RIKEN cDNA 4930401A09 gene	AK015027	-1.03333
Mus musculus wingless-type MMTV integration site 9B (Wnt9b), mRNA [NM_011719]	NM_011719	-1.05746
Unknown		1.14768
Mus musculus cytochrome P450, family 26, subfamily b, polypeptide 1 (Cyp26b)	NM_175475	1.09957
Ubiquitin-conjugating enzyme E2H	AK039198	1.14951
Mus musculus RIKEN cDNA 1810059A23 gene (1810059A23Rik), mRNA [NM_178051]	NM_178051	1.14779
Unknown		-1.22281
Mus musculus discoidin, CUB and LCCL domain containing 2 (Dcbl2), mRNA [NM_028523]	NM_028523	-1.00934
decay accelerating factor 2	NM_007827	-1.48611
Mus musculus proline-rich Gla (G-carboxyglutamic acid) polypeptide 2 (Prrg2), r	NM_022999	-1.00305
Mus musculus eosinophil-associated, ribonuclease A family, member 11 (Ear11)	NM_053113	-1.18778
Mus musculus RIKEN cDNA 1700102P08 gene (1700102P08Rik), mRNA [NM_053216]	NM_053216	1.03516
Immunoglobulin kappa chain variable 38(V38)	M17782	-1.10223
Mus musculus defensin beta 8 (Defb8), mRNA [NM_153108]	NM_153108	1.14059
Mus musculus vomeronasal 1 receptor, H7 (V1rh7), mRNA [NM_134216]	NM_134216	1.08384
Mus musculus RIKEN cDNA 4930429H24 gene (4930429H24Rik), mRNA [NM_029436]	NM_029436	1.13329
Mus musculus similar to 6720451F06Rik protein (LOC243548), mRNA [XM_144905]	XM_144905	-1.11608
peroxisomal biogenesis factor 3	NM_019961	-1.26925
Unknown		1.15795
RIKEN cDNA 6330583I20 gene	AK032094	-1.34668
RIKEN cDNA 1110015E22 gene	NM_024228	-1.06201
RAS, guanyl releasing protein 2	NM_011242	-1.32912
Mus musculus 5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase	NM_026195	1.03042
Angiomotin-like 1	AK016526	-1.19247
Galactose-3-O-sulfotransferase 4	AK031849	1.11812
Mus musculus mitochondrial ribosomal protein L37 (Mrpl37), mRNA [NM_025500]	NM_025500	1.10049
Unknown		1.06717
Mus musculus expressed sequence AV216087 (AV216087), mRNA [NM_144804]	NM_144804	-1.0677
Mus musculus RIKEN cDNA 1700001M19 gene (1700001M19Rik), mRNA [NM_145688]	NM_145688	1.05905
Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 7b (Ara)	NM_172974	1.07008
Mus musculus granzyme N (Gzmn), mRNA [NM_153052]	NM_153052	1.0553
F-box and leucine-rich repeat protein 11	AK039851	1.09139
protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1	NM_023371	-1.09375
N-acylsphingosine amidohydrolase 2	NM_018830	-1.1817
ring finger protein 12	NM_011276	1.04473
Similar to PAPIN	AK015986	-1.08055
catenin src	NM_007615	-1.01811
BU593400 AGENCOURT_8806106 NIH_MGC_137 Mus musculus cDNA clone	BU593400	1.10066
Expressed sequence R74740	BU851393	1.17763
RIKEN cDNA 2810052M02 gene	NM_023320	1.21362
Mus musculus olfactory receptor 177 (Olfr177), mRNA [NM_146996]	NM_146996	1.08088
Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 38 (Dhx38), mRNA [NM_178380]	NM_178380	1.0306

Mus musculus ATP-binding cassette, sub-family A (ABC1), member 3 (Abca3),	NM_013855	-1.00397
Mus musculus cystathionine beta-synthase (Cbs), transcript variant 2, mRNA [N	NM_178224	1.09041
RIKEN cDNA 4933404O19 gene	AK016657	1.02502
retinal S-antigen	NM_009118	1.27206
RIKEN cDNA 1700014D04 gene	AK077007	1.05613
hypothetical protein E030019O05	AK053159	-1.10225
Mouse B-raf oncogene mRNA, complete cds.	M64429	1.06584
hypothetical protein C330043M08	NM_177883	-1.0442
Mus musculus arrestin, beta 2 (Arb2), mRNA [NM_145429]	NM_145429	1.06799
RIKEN cDNA 4432404K01 gene	NM_026639	-1.21276
mc09g06.x1 Soares mouse p3NMF19.5 Mus musculus cDNA clone IMAGE:348	AI415203	1.0729
casein kinase II, alpha 1 related sequence 4	NM_007788	-1.04663
Mus musculus histone 1, H2bk (Hist1h2bk), mRNA [NM_175665]	NM_175665	-1.42143
RIKEN cDNA 1700001O02 gene	AK078362	-1.37581
Mus musculus RIKEN cDNA 2900029G13 gene (2900029G13Rik), mRNA [NM_	NM_175274	1.07318
hydroxysteroid (17-beta) dehydrogenase 12	NM_019657	-1.7251
olfactory receptor 37a	NM_019473	1.016
Mus musculus dual specificity phosphatase 7 (Dusp7), mRNA [NM_153459]	NM_153459	1.32919
Calpain 10	NM_011796	1.03719
Mus musculus killer cell lectin-like receptor subfamily A, member 23 (Klra23), m	NM_024470	1.29469
Unknown		1.28635
cytochrome P450, 2b10, phenobarbitol inducible, type b	NM_009998	1.00171
general transcription factor IIA, 1-like factor	NM_023630	1.06447
WD repeat domain 12	NM_021312	-1.00341
retinal pigment epithelium derived rhodopsin homolog	NM_009102	-1.04388
RIKEN cDNA 2410012H22 gene	AK010472	-1.11184
SMAD specific E3 ubiquitin protein ligase 2	AK013082	1.15776
Mus musculus MAS-related GPR, member A2 (Mrgpra2), mRNA [NM_153101]	NM_153101	1.135
Immunoglobulin heavy chain (J558 family)	BC004786	1.03337
Mus musculus endothelin converting enzyme 1 (Ece1), mRNA [NM_199307]	NM_199307	1.21915
mTR2R1=type II zinc finger DNA binding transcription factor [mice, neonatal bra	S75970	1.06038
RIKEN cDNA 1210002B07 gene	NM_026500	-1.1451
Unknown		1.00352
Transmembrane and coiled-coil domains 2	NM_178874	-1.10153
603355206F1 NIH_MGC_94 Mus musculus cDNA clone IMAGE:5362681 5', m	BI731507	1
Katanin p60 subunit A-like 1	AK049620	-1.0825
Mus musculus olfactory receptor 1145 (Olfr1145), mRNA [NM_146320]	NM_146320	-1.00751
Unknown		-1.02971
calpain 5	NM_007602	-1.11888
novel SH2-containing protein 3	NM_013781	1.20369
Sparc/osteonectin, cwcv and kazal-like domains proteoglycan 2	AK079094	1.08404
proteasome (prosome, macropain) 26S subunit, non-ATPase, 13	NM_011875	-1.0267
Mus musculus angiotensin receptor 1b (Agtr1b), mRNA [NM_175086]	NM_175086	-1.05547
small inducible cytokine A8	NM_021443	-1.05135
Unknown		1.03754
Mus musculus zinc finger protein 537 (Zfp537), mRNA [NM_172298]	NM_172298	1.09199
Unknown		-1.12881
Mus musculus RIKEN cDNA 2600005C20 gene (2600005C20Rik), mRNA [NM_	NM_028244	1.13691
Mus musculus RIKEN cDNA E030041M21 gene (E030041M21Rik), mRNA [NM	NM_029166	1.10422
Mus musculus RIKEN cDNA 9330177P20 gene (9330177P20Rik), mRNA [NM_	NM_177462	-1.2365
Mus musculus adult female vagina cDNA, RIKEN full-length enriched library, clc	AK036764	1.06004
Mus musculus zinc finger protein 526 (Zfp526), mRNA [NM_175436]	NM_175436	-1.01803

prolactin like protein C delta	AK014414	1.02363
histocompatibility 2, T region locus 24	NM_008207	1.12731
Mus musculus procollagen, type VIII, alpha 2 (Col8a2), mRNA [NM_199473]	NM_199473	1.02973
RIKEN cDNA 1200009H11 gene	NM_023734	-1.30974
teratocarcinoma expressed, serine rich	NM_019643	-1.02528
early growth response 4	NM_020596	1.06372
Mus musculus cDNA sequence AY036118 (AY036118), mRNA [NM_133243]	NM_133243	3.51025
gastric inhibitory polypeptide	NM_008119	1.03808
citrate synthase	NM_026444	-1.17578
G protein-coupled receptor 19	NM_008157	1.0768
RIKEN cDNA A330102K23 gene	AK082649	1.00578
RIKEN cDNA C630050I24 gene	AK021281	-1.04611
Mus musculus serine (or cysteine) proteinase inhibitor, clade A, member 3K (Se	NM_011458	1.0581
Nuclear RNA export factor 7	AJ305318	1.00722
Cingulin-like 1	AK036871	1.00524
Mus musculus ribosomal protein L4 (Rpl4), mRNA [NM_024212]	NM_024212	-1.30913
matrix metalloproteinase 23	NM_011985	-1.03572
Mus musculus RIKEN cDNA C230093N12 gene (C230093N12Rik), mRNA [NM_153560]	NM_153560	1.04693
Proteasome (prosome, macropain) 26S subunit, non-ATPase, 1	BC031587	-1.00007
RIKEN cDNA 4930505N22 gene	AK015708	1.10256
staphylococcal nuclease domain containing 1	NM_019776	-1.02984
CDNA sequence BC038311	AK034738	-1.25361
Mus musculus cold autoinflammatory syndrome 1 homolog (human) (Cias1), mF	NM_145827	-1.04724
Expressed sequence AI836376	AK076991	-1.17316
Mus musculus Rho GTPase activating protein 18 (Arhgap18), mRNA [NM_1768	NM_176837	-1.00336
megakaryocyte-associated tyrosine kinase	NM_010768	1.00605
Unknown		-1.11509
Mus musculus RIKEN cDNA D930035B09 gene (D930035B09Rik), mRNA [NM_172876]	NM_172876	1.04973
Mus musculus RIKEN cDNA 2610101N10 gene (2610101N10Rik), mRNA [NM_026476]	NM_026476	1.07893
transcription factor CP2	NM_033476	1.04009
Mus musculus RIKEN cDNA C130053K05 gene (C130053K05Rik), mRNA [NM_175467]	NM_175467	-1.17018
Mus musculus transducin (beta)-like 3 (Tbl3), mRNA [NM_145396]	NM_145396	1.12489
tripartite motif protein 28	NM_011588	1.12097
membrane metallo endopeptidase	NM_008604	1.03865
Adult male testis cDNA, RIKEN full-length enriched library, clone:4930408C10 p	AK076663	1.06115
Trafficking protein particle complex 6B	BC031464	-2.07459
Mus musculus spastic paraplegia 3A homolog (human) (Spg3a), mRNA [NM_178628]	NM_178628	-1.04008
Mus musculus antimicrobial mRNA sequence.	AF062528	-1.2658
Mus musculus RIKEN cDNA 3930401E15 gene (3930401E15Rik), mRNA [XM_128959]	XM_128959	-1.02179
Vang, van gogh-like 1 (Drosophila)	BC024687	1.04951
Mus musculus vomeronasal 1 receptor, C33 (V1rc33), mRNA [NM_134436]	NM_134436	-1.01397
PDZ domain containing 1	BQ963602	1.092
nitrogen permase homolog (S. cerevisiae)	NM_018879	-1.01005
Mus musculus cDNA sequence BC031353 (BC031353), mRNA [NM_153584]	NM_153584	-1.02895
Mus musculus vomeronasal 1 receptor, I6 (V1ri6), mRNA [NM_134223]	NM_134223	-1.00566
erythroid differentiation regulator 1	NM_133362	1.2441
RIKEN cDNA 2300008B03 gene	AK009043	1.09864
Mus musculus transcription factor 23 (Tcf23), mRNA [NM_053085]	NM_053085	1.05174
RIKEN cDNA C230098O21 gene	AK082735	1.00568
Mus musculus kelch-like 12 (Drosophila) (Klhl12), mRNA [NM_153128]	NM_153128	-1.15037
Mus musculus nucleoporin 62 (Nup62), mRNA [NM_053074]	NM_053074	1.05279
Myc target 1	AK054222	1.06429

catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-receptor)	NM_008729	1.04967
luteinizing hormone/choriogonadotropin receptor	NM_013582	1.17831
Mus musculus similar to Trypsin V-A precursor (LOC194360), mRNA [XM_112312]	XM_112355	1.0517
acid phosphatase 5, tartrate resistant	NM_007388	-1.12122
2-cell-stage, variable group, member 3	NM_153523	1.03899
Unknown		1.04752
Mus musculus RIKEN cDNA 2210010B09 gene (2210010B09Rik), mRNA [NM_172919]	NM_172919	1.02723
RIKEN cDNA 9530004P13 gene	AK020544	1.14803
Poly (A) polymerase alpha	U52197	1.0564
Mus musculus G protein-coupled receptor 171 (Gpr171), mRNA [NM_173398]	NM_173398	-1.03415
Mus musculus transcription elongation factor B polypeptide 3 binding protein 1 (Tefb3)	NM_025852	1.15769
Splicing factor 3b, subunit 5	AK035884	-1.1266
Mus musculus RIKEN cDNA 9130002C22 gene (9130002C22Rik), mRNA [NM_029000]	NM_029000	-1.88117
Unknown		-1.05679
Unknown		1.13918
Mus musculus DNA segment, Chr 2, Wayne State University 81, expressed (D2)	NM_172660	-1.06285
Mus musculus RIKEN cDNA 4833420K19 gene (4833420K19Rik), mRNA [NM_029775]	NM_029775	-1.4083
Zinc finger, MYND domain containing 19	AK086718	-1.28799
Mus musculus Down syndrome critical region gene 1-like 1 (Dscr11), transcript	NM_207649	1.14972
Unknown		1.00178
Mus musculus sorting nexin 15 (Snx15), mRNA [NM_026912]	NM_026912	1.10736
RIKEN cDNA 3110052M02 gene	AB010360	-1.35429
RIKEN cDNA 4933409K03 gene	AK016757	-1.00575
CA1C_MOUSE Collagen alpha 1(XII) chain precursor. [Mouse] {Mus musculus}, partial (27%) [		1.01185
ring finger protein 13	NM_011883	-1.09277
Mus musculus RIKEN cDNA B230373P09 gene (B230373P09Rik), mRNA [NM_177336]	NM_177336	1.08344
Mus musculus xylosyltransferase 1 (Xylt1), mRNA [NM_175645]	NM_175645	-1.012
lung-inducible neuralized-related C3HC4 RING domain protein	NM_153408	1.01846
zinc finger protein 216	NM_009551	-1.659
Mus musculus olfactory receptor 609 (Olfr609), mRNA [NM_147082]	NM_147082	1.02667
RIKEN cDNA 2610029M16 gene	NM_025573	-1.23855
synaptotagmin V	NM_021889	-1.11385
Unknown		-1.04445
Mus musculus expressed sequence AV344025 (AV344025), mRNA [NM_178922]	NM_178922	-1.03162
Mus musculus protocadherin alpha 5 (Pcdha5), mRNA [NM_009959]	NM_009959	1.1371
Mus musculus phosphate cytidyltransferase 1, choline, beta isoform (Pcyt1b),	NM_211138	-1.06748
Unknown		1.14762
Rap2 interacting protein	NM_016759	1.08318
Mus musculus adiponectin receptor 1 (Adipor1), mRNA [NM_028320]	NM_028320	1.1452
Mus musculus sex comb on midleg homolog 1 (Scmh1), mRNA [NM_013883]	NM_013883	1.12287
Mus musculus similar to hypothetical protein BC013949 (LOC234388), mRNA [XM_134222]	XM_134222	1.13566
phosphatidylethanolamine N-methyltransferase	NM_008819	1.12265
Mus musculus cDNA sequence BC030500 (BC030500), mRNA [NM_173411]	NM_173411	1.14298
RIKEN cDNA 1500002F15 gene	NM_025894	-1.06638
Mus musculus unc-5 homolog A (C. elegans) (Unc5a), mRNA [NM_153131]	NM_153131	1.05719
AAP70863.1 olfactory receptor GA_x6K02T2NKPP-822947-822000 [Mus musculus] [NP81842]		-1.04919
Mus musculus olfactory receptor 100 (Olfr100), mRNA [NM_207673]	NM_207673	1.07395
sciellin	NM_022886	-1.58612
Mus musculus RIKEN cDNA 4930580F03 gene (4930580F03Rik), mRNA [NM_172423]	NM_172423	1.14724
Unknown		1.14767
Mus musculus RIKEN cDNA 2410015B03 gene (2410015B03Rik), mRNA [NM_028036]	NM_028036	-1.02485
Cadherin 18	AF068258	-1.01226

zinc finger protein 288	NM_019778	1.02747
Mus musculus similar to olfactory receptor GA_x6K02T2Q125-49870417-49871	XM_141175	-1.02451
Unknown		-1.00988
Mus musculus pannexin 3 (Panx3), mRNA [NM_172454]	NM_172454	-1.02961
JTV1 gene	NM_146165	-1.16279
Mus musculus RIKEN cDNA 1300003K24 gene (1300003K24Rik), mRNA [NM_	NM_027900	1.1315
Mus musculus olfactory receptor 668 (Olfr668), mRNA [NM_147059]	NM_147059	-1.03319
RIKEN cDNA A530094I17 gene	M28513	-1.41663
Mus musculus olfactory receptor 974 (Olfr974), mRNA [NM_147107]	NM_147107	1.08353
Mus musculus RIKEN cDNA D130012J15 gene (D130012J15Rik), mRNA [NM_	NM_172271	1.09376
AGENCOURT_10198645 NIH_MGC_143 Mus musculus cDNA clone IMAGE:6:BU534286		-1.25565
Mus musculus zinc finger protein 11 (Zfp11), mRNA [NM_172462]	NM_172462	-1.03759
RIKEN cDNA 8430432M10 gene	NM_176831	1.04436
Transgelin 2	AF149291	-1.0235
Mus musculus cDNA sequence BC047219 (BC047219), mRNA [NM_201355]	NM_201355	1.05698
Mus musculus RIKEN cDNA D830030K20 gene (D830030K20Rik), mRNA [NM_	NM_177135	1.04734
ghrelin	NM_021488	-1.03629
RIKEN cDNA D030022P06 gene	AK051146	1.11152
Mus musculus serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), me	NM_027971	-1.24381
small nuclear ribonucleoprotein polypeptide A	NM_015782	-1.10689
calbindin-D9K	NM_009789	-1.24163
CDNA sequence BC032203	AB093219	-1.01183
nuclear receptor subfamily 1, group H, member 3	NM_013839	1.25283
RIKEN cDNA 5730402E23 gene	BQ174088	1.70018
Mus musculus olfactory receptor 486 (Olfr486), mRNA [NM_146496]	NM_146496	1.07813
chromobox homolog 8 (Drosophila Pc class)	NM_013926	-1.00122
bone morphogenetic protein 15	NM_009757	1.09137
sparc/osteonectin, cwcv and kazal-like domains proteoglycan 2	NM_052994	-1.11353
proteoglycan, secretory granule	NM_011157	-1.67059
Unknown		1.04076
Mus musculus guanine nucleotide binding protein, alpha stimulating, olfactory ty	NM_010307	1.03951
Mus musculus expressed sequence AU044919 (AU044919), mRNA [NM_21245	NM_212451	1.03476
RIKEN cDNA 4931428F04 gene	BC059045	-1.03135
Mus musculus RIKEN cDNA 9030623C06 gene (9030623C06Rik), mRNA [NM_	NM_023256	-1.00146
chemokine (C-X-C) receptor 4	NM_009911	-1.0379
Mus musculus RIKEN cDNA 3732412D22 gene (3732412D22Rik), mRNA [NM_	NM_00100198	-1.04365
Unknown		1.04326
excision repair cross-complementing rodent repair deficiency, complementation	NM_011729	-1.22917
RIKEN cDNA 1300013D18 gene	AK004984	1.01417
CDNA sequence BC025833	AK085940	1.13216
Mus musculus RIKEN cDNA 2600017H02 gene (2600017H02Rik), mRNA [NM_	NM_025915	1.08619
Unknown		-1.07337
RIKEN cDNA 4931429P17 gene	AK016490	1.03715
Mus musculus cDNA sequence BC005471 (BC005471), mRNA [NM_145612]	NM_145612	-1.68766
Mus musculus transformation related protein 53 binding protein 2 (Trp53bp2), m	NM_173378	1.10416
Unknown		1.20485
mitogen activated protein kinase 9	NM_016961	1.20635
OLFACTORY RECEPTOR GA_X6K02T2Q64A-11927171-11926215. [Source:SPTREMBL;Acc		1.0078
Mus musculus vasoactive intestinal polypeptide (Vip), mRNA [NM_011702]	NM_011702	1.07128
NMT1_MOUSE Glycylpeptide N-tetradecanoyltransferase 1 (Peptide N- myristoyltransferase 1)		1.19323
Mus musculus protein phosphatase 1, regulatory subunit 9B (Ppp1r9b), mRNA [NM_	NM_172261	1.15237
Exocyst complex component 8	AK076456	-1.17817

Mus musculus a disintegrin and metalloprotease domain 4 (Adam4), mRNA [NM_009620]	NM_009620	1.04707
endothelial differentiation sphingolipid G-protein-coupled receptor 1	NM_007901	-1.23774
Bactericidal permeability increasing protein	NM_177850	1.1149
chromodomain helicase DNA binding protein 1	NM_007690	-1.14158
Mus musculus olfactory receptor 380 (Olfr380), mRNA [NM_147025]	NM_147025	1.01243
Transformation related protein 73	AK017412	1.06845
Mus musculus G protein-coupled receptor 45 (Gpr45), mRNA [NM_053107]	NM_053107	1.10702
solute carrier family 7 (cationic amino acid transporter, y+ system), member 2	NM_007514	1.00421
Unknown		1.15034
Mus musculus B and T lymphocyte associated (Btla), mRNA [NM_177584]	NM_177584	-1.11622
Mus musculus 2 days pregnant adult female ovary cDNA, RIKEN full-length enri	AK054519	1.12377
Unknown		-1.00017
Ribosomal protein S6 kinase, polypeptide 5	AK018114	-1.28468
Mus musculus brain-specific angiogenesis inhibitor 2 (Bai2), mRNA [NM_173071]	NM_173071	1.02507
Mus musculus RIKEN cDNA 8030451K01 gene (8030451K01Rik), mRNA [NM_172501]	NM_172501	-1.10508
CEA-related cell adhesion molecule 14	AK005533	-1.1959
Mus musculus cDNA sequence BC006933 (BC006933), mRNA [NM_146040]	NM_146040	-1.03283
Mus musculus similar to low density lipoprotein receptor-related protein 2; glyco	XM_130308	1.00868
Titin	AK052859	1.08209
Mus musculus RIKEN cDNA 1700009P13 gene (1700009P13Rik), mRNA [NM_144820]	NM_144820	1.02712
UI-M-AJ0-aav-g-11-0-UI.s2 NIH_BMAP_MOB Mus musculus cDNA clone UI-M-AI838397		1.02028
Mus musculus solute carrier family 2 (facilitated glucose transporter), member 6	NM_172659	1.00494
Mus musculus RIKEN cDNA 4732496O19 gene (4732496O19Rik), mRNA [NM_133853]	NM_133853	1.38085
RAN binding protein 6	AK083089	-1.47276
Cylindromatosis (turban tumor syndrome)	AK013508	-1.25743
Unknown		1.00826
adaptor protein complex AP-2, alpha 2 subunit	NM_007459	-1.18814
Zinc finger with KRAB and SCAN domains 1	AK033176	1.1311
N-acetylated alpha-linked acidic dipeptidase 2	AY243507	1.00094
Mus musculus RIKEN cDNA 2310005O14 gene (2310005O14Rik), mRNA [NM_026452]	NM_026452	1.06997
retinol dehydrogenase type 6	NM_009040	1.15548
Mus musculus hypothetical protein B230205M18 (B230205M18), mRNA [XM_1110361]	XM_1110361	-1.03995
dystrophin {5' region, alternatively spliced} [mice, cerebellar Purkinje neurons, m	S64154	-1.03109
vomer nasal 2, receptor, 10	NM_009486	1.10181
Mus musculus olfactory receptor 136 (Olfr136), mRNA [NM_146807]	NM_146807	1.02025
Intelectin b	NM_010584	-1.14959
Mus musculus RIKEN cDNA 4122402O22 gene (4122402O22Rik), mRNA [NM_029945]	NM_029945	-1.01212
Protease, serine, 36	AK021185	-1.01262
Mus musculus interleukin 12a (Il12a), mRNA [NM_008351]	NM_008351	-1.12725
Mus musculus visual system homeobox 1 homolog (zebrafish) (Vsx1), mRNA [NM_054068]	NM_054068	1.21815
RIKEN cDNA 4933434I20 gene	NM_026233	-1.06364
advanced glycosylation end product-specific receptor	NM_007425	1.36438
Mus musculus CD2 antigen (cytoplasmic tail) binding protein 2 (Cd2bp2), mRNA [NM_027353]	NM_027353	-1.09207
Interferon consensus sequence binding protein 1	M32489	1.04542
Mus musculus 18-day embryo whole body cDNA, RIKEN full-length enriched lib	AK003675	1.04346
acidic epididymal glycoprotein 1	NM_009638	-1.70043
Mus musculus poly(A)-specific ribonuclease (deadenylation nuclease) (Parn), m	NM_028761	-1.103
vesicle-associated membrane protein 1	NM_009496	-1.04972
Mus musculus expressed sequence AA589563 (AA589563), mRNA [NM_183181]	NM_183181	1.11254
RIKEN cDNA 5830403L16 gene	X16314	-1.0255
Mus musculus RIKEN cDNA 2610007K22 gene (2610007K22Rik), transcript vari	NM_199079	1.01108
Mus musculus similar to KRAB box containing zinc finger protein (MGC67168),	NM_199020	-1.11426

Mus musculus RIKEN cDNA 9430041C03 gene (9430041C03Rik), mRNA [NM_	NM_133894	1.02948
Copine IV	AK014396	1.0426
Unknown		1
OLFACTORY RECEPTOR GA_X6K02T2PVTD-12724921-12725859. [Source:SPTREMBL;Acc		-1.02361
nitric oxide synthase 1, neuronal	NM_008712	-1.06603
homeobox only domain	NM_175606	1.05634
Mus musculus olfactory receptor 608 (Olf608), mRNA [NM_146756]	NM_146756	1.07502
Mus musculus kelch-like 8 (Drosophila) (Klh8), mRNA [NM_178741]	NM_178741	1.02921
Unknown		1.12909
Unknown		1.03275
Latrophilin 2	AK129215	-1.70776
Mus musculus 6 days neonate head cDNA, RIKEN full-length enriched library, c	AK019943	-1.45459
eukaryotic translation initiation factor 2, subunit 3, structural gene X-linked	NM_012010	-1.30231
RIKEN cDNA 4933432P15 gene	AK129176	-1.0014
phospholipase D3	NM_011116	-1.11074
Mus musculus RIKEN cDNA 4933424G06 gene (4933424G06Rik), mRNA [XM_	XM_129743	1.03977
Mus musculus zinc finger protein of the cerebellum 5 (Zic5), mRNA [NM_02298	NM_022987	1.08095
phosphatidylserine receptor	NM_033398	1.13474
RIKEN cDNA 4833416E15 gene	AA688787	-1.01527
transferrin receptor	NM_011638	-1.20667
musculin	NM_010827	1.13211
Mus musculus RIKEN cDNA 1500015L24 gene (1500015L24Rik), mRNA [NM_	NM_183277	2.37143
Mus musculus RIKEN cDNA C630023L15 gene (C630023L15Rik), mRNA [NM_	NM_183204	1.07147
RIKEN cDNA 4933411G06 gene	AK016770	1.01564
protein related to DAC and cerberus	NM_011825	-1.16321
retinal short chain dehydrogenase reductase 2	NM_181989	-1.10596
RIKEN cDNA 2610029G23 gene	NM_026312	-1.13067
Mus musculus olfactory receptor 715 (Olf715), mRNA [NM_146780]	NM_146780	1.08833
CDNA clone MGC:36291 IMAGE:4236075, complete cds	AK004044	-1.2448
POU domain, class 2, transcription factor 1	NM_011137	-1.15089
Mus musculus acetyl-Coenzyme A synthetase 2 (AMP forming)-like (Acas2l), m	NM_080575	1.04793
Mus musculus RIKEN cDNA G630055P03 gene (G630055P03Rik), mRNA [NM_	NM_177150	1.07428
ATPase, class II, type 9A	NM_015731	1.18415
zona pellucida glycoprotein 3	NM_011776	1.0895
Unc-5 homolog C (C. elegans)-like	AK089034	1.01445
SUMO/sentrin specific protease 5	AK078133	-1.38221
dipeptidase 1 (renal)	NM_007876	-1.02822
G protein-coupled receptor 34	NM_011823	1.00612
RIKEN cDNA 1190002J23 gene	AK076812	-1.09757
zona pellucida glycoprotein 2	NM_011775	1.02156
Cyclin L2	AK005805	1.17958
Mus musculus similar to secreted embryonic phosphatase (LOC208256), mRNA	XM_136795	1.03625
desert hedgehog homolog, (Drosophila)	NM_007857	1.14162
Mus musculus cDNA sequence BC026744 (BC026744), mRNA [NM_177876]	NM_177876	-1.02749
ankyrin-like repeat protein	NM_013468	-1.12564
Solute carrier family 39 (zinc transporter), member 1	NM_013901	-1.1268
leptin	NM_008493	1.11478
expressed in non-metastatic cells 6, protein (nucleoside diphosphate kinase)	NM_018757	1.00583
Hydroxyacylglutathione hydrolase-like	AK012748	-1.14887
Bromodomain containing 2	NM_010238	1.04496
unc5 homolog (C. elegans) 3	NM_009472	-1.03837
Mus musculus RIKEN cDNA 2810024B22 gene (2810024B22Rik), mRNA [NM_	NM_146211	1.27512

Mus musculus cathepsin O (Ctso), mRNA [NM_177662]	NM_177662	1.10215
RIKEN cDNA 1500041N16 gene	NM_026399	-1.06066
Sec1 family domain containing 1	AK044943	-1.20313
Mus musculus unc-93 homolog B (C. elegans) (Unc93b), mRNA [NM_019449]	NM_019449	1.14462
zinc finger protein 57	NM_009559	-1.00617
Insulin degrading enzyme	BG297997	1.04126
RIKEN cDNA 4933405D12 gene	AK016661	1.12685
TATA box binding protein (TBP) associated factor, RNA polymerase II, F, 55 kD	NM_011901	-1.21214
Harvey rat sarcoma oncogene, subgroup R	NM_009101	-1.02476
UI-M-AJ0-abc-g-07-0-UI.s1 NIH_BMAP_MOB Mus musculus cDNA clone UI-M-	AI836795	1.03822
RIKEN cDNA 3110007P09 gene	AK043018	-1.07128
hematopoietic, heart, liver	NM_013862	-1.11147
kinesin family member 21B	NM_019962	1.30529
Mus musculus cDNA sequence BC010311 (BC010311), mRNA [NM_145950]	NM_145950	-1.16499
Mus musculus RIKEN cDNA C130032F08 gene (C130032F08Rik), mRNA [NM_	NM_173429	-1.0926
insulin receptor	NM_010568	1.42844
Mus musculus cellular repressor of E1A-stimulated genes 2 (Creg2), mRNA [NM	NM_170597	1.05527
T-box18	NM_023814	1.07197
Tripartite motif-containing 14	AK017887	-1.08255
guanine deaminase	NM_010266	1.05003
Rabphilin 3A-like (without C2 domains)	AK018335	1.10794
lipose, endothelial	NM_010720	1.08641
RIKEN cDNA 2310066P17 gene	NM_025876	-1.06958
Mus musculus optic atrophy 1 homolog (human) (Opa1), mRNA [NM_133752]	NM_133752	-1.09278
gap junction membrane channel protein alpha 9	NM_010290	1.37445
Mus musculus mitochondrial ribosomal protein L1 (Mrp1), mRNA [NM_053158]	NM_053158	-1.16273
Mus musculus hypothetical protein A130081B01 (A130081B01), mRNA [NM_19	NM_199062	1.09887
Mus musculus olfactory receptor 583 (Olfr583), mRNA [NM_146757]	NM_146757	1.36241
Mus musculus RIKEN cDNA 4930471M23 gene (4930471M23Rik), mRNA [NM_	NM_175675	1.01636
Desmoglein 1 gamma	AK034104	1.1911
Mus musculus cysteine and glycine-rich protein 2 binding protein (Csrp2bp), mR	NM_181417	1.03292
Mus musculus similar to zinc finger protein 97 (LOC385163), mRNA [XM_3580	XM_358096	-1.6561
RIKEN cDNA 4631424J17 gene	AK014534	-1.38103
Unknown		1.07126
Mus musculus Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 (Arhgef	NM_152801	-1.14731
Unknown		-1.01943
Mus musculus spire homolog 1 (Drosophila) (Spire1), transcript variant 1, mRN	NM_194355	1.01796
X (inactive)-specific transcript, antisense	AF138745	1
RAB36, member RAS oncogene family	AK018269	1.22495
Mus musculus RIKEN cDNA 0610030I09 gene (0610030I09Rik), mRNA [NM_0	NM_00100144	1.02312
RIKEN cDNA 2810003K23 gene	AK012661	-1.17051
Mus musculus RIKEN cDNA 4631426H08 gene (4631426H08Rik), mRNA [NM_	NM_133730	1.1695
RIKEN cDNA 2810422M04 gene	AK010997	-1.06788
Mus musculus CTD (carboxy-terminal domain, RNA polymerase II, polypeptide	NM_133710	1.04512
Heat shock protein 1	BC018257	1.09478
downstream of tyrosine kinase 1	NM_010070	-1.07185
vasoactive intestinal peptide receptor 1	NM_011703	1.08538
Within bgcn homolog (Drosophila)	BC049647	1.01984
Cellular repressor of E1A-stimulated genes 1	AA734249	-1.03225
calcitonin receptor	NM_007588	1.00766
Mus musculus expressed sequence AW212607 (AW212607), mRNA [NM_1986	NM_198617	1.09143
type 1 tumor necrosis factor receptor shedding aminopeptidase regulator	NM_030711	1.02819

Mus musculus RIKEN cDNA 1700001E16 gene (1700001E16Rik), mRNA [NM_	NM_027030	-1.42708
CDC-like kinase 2	NM_007712	1.00517
RIKEN cDNA 1700025O08 gene	AK006362	1.05243
Mus musculus echinoderm microtubule associated protein like 4 (Eml4), mRNA	NM_199466	1.01178
Mus musculus similar to RIKEN cDNA 1700091H14 (1700091H14Rik), mRNA [X	XM_135456	1.00879
RIKEN cDNA 4933425A18 gene	AK083617	-2.38914
mitochondrial solute carrier protein	NM_030054	-1.14438
RIKEN cDNA 4930469B13 gene	BY715075	1.0054
Alcohol dehydrogenase 6A (class V)	AK028114	1
Autophagy 5-like (S. cerevisiae)	NM_053069	1.01328
WD repeat domain 22	AF357403	1.04475
Olfactory receptor 412	CB174054	1.07388
Unknown		-1.10194
Mus musculus RIKEN cDNA 9630018L10 gene (9630018L10Rik), mRNA [NM_	NM_177346	1.07256
Mus musculus olfactory receptor 1436 (Olfr1436), mRNA [NM_146687]	NM_146687	-1.06816
RIKEN cDNA 1110006O24 gene	NM_021417	1.86409
thyroglobulin	NM_009375	-1.11753
Pam, highwire, rpm 1	BC059257	-1.51047
RIKEN cDNA 4833438C02 gene	AK029443	-1.00829
paired-like homeodomain transcription factor 2	NM_011098	1.00826
integrin binding sialoprotein	NM_008318	1.09549
Acyl-CoA synthetase long-chain family member 6	AK046027	1.04683
Unknown		1.0255
proteasome (prosome, macropain) subunit, beta type 10	NM_013640	-1.12751
RIKEN cDNA E130013N09 gene	BC060623	-1.05604
Mus musculus solute carrier family 35, member E3 (Slc35e3), mRNA [NM_0298	NM_029875	1.12505
Mus musculus RIKEN cDNA 6720457D02 gene (6720457D02Rik), mRNA [NM_	NM_175252	-1.47258
Vacuolar protein sorting 13A (yeast)	BC062130	-1.72574
Zinc finger, ZZ type with ankyrin repeat domain 1	AK084791	1.06541
fucosyltransferase 7	NM_013524	-1.02521
Mus musculus olfactory receptor 1333 (Olfr1333), mRNA [NM_207157]	NM_207157	-1.04699
insulin I	NM_008386	1.06637
Mus musculus mitochondrial ribosomal protein S11 (Mrps11), mRNA [NM_0264	NM_026498	-1.09722
Phosphodiesterase 4D, cAMP specific	AK081466	1.02418
X-box binding protein 1	NM_013842	-1.75919
M-phase phosphoprotein 9	AK036326	1.19256
Unknown		1.07679
Tropomodulin 2	AF177170	1.13192
Unknown		1.0079
sodium channel, nonvoltage-gated 1 gamma	NM_011326	-1.0824
Mus musculus yippee-like 5 (Drosophila) (Ypel5), mRNA [NM_027166]	NM_027166	-1.15086
Unknown		1.05086
pleiomorphic adenoma gene-like 2	NM_018807	1.04577
WD repeat domain 44	BC068151	-1.14863
Mus musculus RIKEN cDNA 0610011L14 gene (0610011L14Rik), mRNA [NM_	(NM_026661	1.02953
Unknown		1.13681
RNA polymerase I associated factor	NM_022811	-1.1837
integrin linked kinase	NM_010562	-1.02673
Mus musculus RIKEN cDNA 3110035E14 gene (3110035E14Rik), mRNA [NM_	NM_178399	1.08558
Transcribed locus, moderately similar to XP_545065.1 PREDICTED: hypothetic	CB174274	-1.27318
hypothetical gene supported by AK035725; AK051021; AK087794; BC064678	AK035725	1.1641
Lactate dehydrogenase A-4 pseudogene mRNA, 3' end	M17518	1.0737

Unknown		1.0184
Unknown		1.37102
HECT, UBA and WWE domain containing 1	AK049460	1.03406
Mus musculus cDNA clone IMAGE:3582855.	BC020382	-1.11322
OLFACTORY RECEPTOR MOR264-4. [Source:RefSeq;Acc:NM_146838] [ENSMUST0000005		1.0412
Receptor interacting protein kinase 5	BC019133	1.03863
RIKEN cDNA 9030623N16 gene	NM_025777	-1.12289
RIKEN cDNA 2410130M07 gene	NM_026631	-1.05956
Golgi transport 1 homolog B (S. cerevisiae)	AK018531	1.08683
Mus musculus cDNA sequence BC014795 (BC014795), mRNA [NM_144794]	NM_144794	1.04065
Mus musculus sialic acid binding Ig-like lectin 10 (Siglec10), mRNA [NM_172900]	NM_172900	1.08423
Similar to tripartite motif protein 15 isoform alpha	BC027186	1.02576
potassium inwardly-rectifying channel, subfamily J, member 8	NM_008428	-1.11604
Unknown		1.58598
GLIS family zinc finger 3	AK054020	1.03182
Mus musculus olfactory receptor 509 (Olfr509), mRNA [NM_146372]	NM_146372	1.05988
proliferin 2	NM_011118	1.00246
Mus musculus RIKEN cDNA 2410146L05 gene (2410146L05Rik), mRNA [NM_026480]	NM_026480	1.12833
M-phase phosphoprotein 9	AK081178	1
Mus musculus RAN binding protein 2 (Ranbp2), mRNA [NM_011240]	NM_011240	-1.13524
Unknown		1.29033
IFN-alpha induced mouse embryonic fibroblast	U76755	1.05339
Transcriptional regulator, SIN3B (yeast)	AK087970	1.05076
Mus musculus ectopic ossification 1 (Etos1), mRNA [NM_053258]	NM_053258	1.029
Mus musculus olfactory receptor 143 (Olfr143), mRNA [NM_146806]	NM_146806	-1.06605
RIKEN cDNA 1110055J05 gene	NM_026394	-1.02553
Deleted in azoospermia-like	AK014854	-1.00389
Mus musculus cDNA sequence BC029214 (BC029214), mRNA [NM_153557]	NM_153557	-1.03692
OLFACTORY RECEPTOR GA_X6K02T2Q125-50243231-50242221. [Source:SPTREMBL;Acc		-1.01179
Mus musculus RIKEN cDNA 5330421F07 gene (5330421F07Rik), mRNA [NM_175272]	NM_175272	1.04703
Mus musculus RIKEN cDNA E130203B14 gene (E130203B14Rik), mRNA [NM_178791]	NM_178791	1.00519
ubiquitin-conjugating enzyme 5	NM_009455	-2.2209
ATPase type 13A2	BC025028	1.16465
OLFACTORY RECEPTOR MOR266-3. [Source:RefSeq;Acc:NM_146740] [ENSMUST0000005		1.0652
RAS, dexamethasone-induced 1	NM_009026	-1.14783
RIKEN cDNA 1110015M06 gene	AK003729	-1.09464
prostaglandin F receptor	NM_008966	1.03243
ATP-binding cassette, sub-family B (MDR/TAP), member 3	NM_011530	1.27433
Unknown		1.05408
Mus musculus vomeronasal 1 receptor, A8 (V1ra8), mRNA [NM_053223]	NM_053223	1.021
Solute carrier family 7 (cationic amino acid transporter, y+ system), member 4	AK043772	-1.07029
Mus musculus sterile alpha motif domain containing 8 (Samd8), mRNA [NM_026283]	NM_026283	-1.00679
RIKEN cDNA 1700009P03 gene	BC029079	-1.22362
Thiamine triphosphatase	BC025562	1.08205
spermidine synthase	NM_009272	1.15336
Mus musculus protein phosphatase 6, catalytic subunit (Ppp6c), mRNA [NM_024209]	NM_024209	1.02124
activin A receptor, type 1	NM_007394	1.14334
Mus musculus RIKEN cDNA 4921507I02 gene (4921507I02Rik), mRNA [XM_131022]	XM_131022	1.0442
Williams-Beuren syndrome chromosome region 17 homolog (human)	L10908	-1.1729
RIKEN cDNA D630005C06 gene	AK085287	1.14806
SLAM family member 8	BC024587	-1.06037
Spermine binding protein	X06246	1.15552

T-cell receptor gamma, variable 6	M18858	-1.1204
Mus musculus hippocalcin-like 4 (Hpcal4), mRNA [NM_174998]	NM_174998	1.07436
RIKEN cDNA 2610002M06 gene	NM_025921	-1.03939
Amyloid beta (A4) precursor protein-binding, family A, member 1 binding protein	AK005717	1.08835
amiloride-sensitive sodium channel	NM_021370	-1.07022
cytochrome P450, 19, aromatase	NM_007810	1.05437
Lipocalin 12	AK020307	1.03811
Syntaxin 17	AK030808	1
RIKEN cDNA 1810038H16 gene	NM_026193	1.12007
Unknown		-1.00922
ubiquitin D	NM_023137	1.0885
xenotropic and polytropic retrovirus receptor 1	NM_011273	-1.0175
Paralemmin	Y14771	1.06377
Mediator of RNA polymerase II transcription, subunit 12 homolog (yeast)-like	AK047743	1.01052
Dymeclin	NM_027727	1.08883
GATA zinc finger domain containing 2B	AK028522	1.03511
OLFACTORY RECEPTOR GA_X6K02T2NHDJ-9457744-9456734. [Source:SPTREMBL;Acc:C		1.08646
Wiskott-Aldrich syndrome-like (human)	BC055045	-1.00725
Mus musculus cerebral cavernous malformation 2 homolog (human) (Ccm2), m	NM_146014	-1.00158
RIKEN cDNA 4930429A08 gene	AK015229	1.19289
tight junction protein 1	NM_009386	-1.51194
CDNA sequence BC025519	BC025519	-1.03856
Mus musculus similar to NADH-ubiquinone oxidoreductase 13 kDa-A subunit, m	XM_354775	-1.21293
Unknown		-1.0506
Activin receptor IIA	M65287	1.17355
Mus musculus DNA segment, Chr 1, Brigham & Women's Genetics 0212 expre	NM_028043	-1.08971
Dehydrogenase/reductase (SDR family) member 6	BC021461	-1.0009
GATA-binding protein 2	NM_008090	-1.10453
Ubiquitin specific protease 46	AK039074	-1.09655
Unknown		1.06236
Unknown		1.50688
Mus musculus RIKEN cDNA 3000004N20 gene (3000004N20Rik), mRNA [NM_	NM_028226	1.15196
opsin 1 (cone pigments), short-wave-sensitive (color blindness, tritan)	NM_007538	1.04516
WW domain-containing protein 3	NM_022028	-1.49384
tumor necrosis factor, alpha-induced protein 1 (endothelial)	NM_009395	1.12125
Mus musculus DnaJ (Hsp40) homolog, subfamily B, member 4 (Dnajb4), mRNA	NM_025926	-1.47173
CDC28 protein kinase 1	NM_016904	1.06004
Myeloid cell nuclear differentiation antigen	NM_008329	-1.20711
OLFACTORY RECEPTOR MOR256-4. [Source:RefSeq;Acc:NM_146867] [ENSMUST0000006		-1.02212
Mus musculus olfactory receptor 652 (Olfr652), mRNA [NM_147048]	NM_147048	-1.00189
RIKEN cDNA D030002E05 gene	BC025052	1.07235
RIKEN cDNA C030016K15 gene	AK008985	-1.19239
Mus musculus RIKEN cDNA 9930036E21 gene (9930036E21Rik), mRNA [NM_	NM_177178	-1.04058
lymphocyte specific 1	NM_019391	-1.1056
chondroitin 4-sulfotransferase 2	NM_021528	1.03545
dynein, cytoplasmic, heavy chain 1	NM_030238	-1.16354
RIKEN cDNA 4933426I21 gene	BC024577	-1.01909
RIKEN cDNA 1810008O21 gene	BC028534	-1.13951
Unknown		1.01812
Mus musculus SWI/SNF related, matrix associated, actin dependent regulator o	NM_011417	1.24935
RIKEN cDNA 1700017G19 gene	AK006064	1.08936
Mus musculus RIKEN cDNA 4933425M15 gene (4933425M15Rik), mRNA [NM_	NM_175674	-1.1556

retinoblastoma-like 2	NM_011250	-1.07166
vomeronasal 2, receptor, 2	NM_009492	1.073
Unknown		1.06743
cAMP-regulated guanine nucleotide exchange factor II	NM_019688	-1.79819
H1 histone family, member 3	NM_010377	1.0235
HISTOCOMPATIBILITY 2, BLASTOCYST; BLASTOCYST MHC. [Source:RefSeq;Acc:NM_008		1.15314
Mus musculus olfactory receptor 46 (Olf46), mRNA [NM_146934]	NM_146934	1.05068
glutamate receptor, ionotropic, AMPA3 (alpha 3)	NM_016886	1.07394
axin2	NM_015732	1.17019
Exportin, tRNA (nuclear export receptor for tRNAs)	AK014235	-1.05823
Mus musculus RIKEN cDNA 2300002M23 gene (2300002M23Rik), mRNA [NM_NM_175148		1.03014
10 days neonate olfactory brain cDNA, RIKEN full-length enriched library, clone: AK089147		1.07186
Mus musculus DNA segment, Chr 19, ERATO Doi 737, expressed (D19Erd737	NM_029648	-1.63594
Mitogen activated protein kinase kinase kinase 7	BC006665	-1.08601
Mus musculus thioredoxin domain containing 5 (Txndc5), mRNA [NM_145367]	NM_145367	-1.1877
zinc finger protein 127	NM_011746	-1.00934
Mus musculus prostate stem cell antigen (PscA), mRNA [NM_028216]	NM_028216	1.08072
Unknown		-1.04484
tripartite motif protein 21	NM_009277	-1.02707
DNA fragmentation factor, 40 kD, beta subunit	NM_007859	1.31115
RIKEN cDNA 4932442K08 gene	BC003200	-1.14111
RIKEN cDNA 1810014F10 gene	AK044731	1.14784
amyloid beta (A4) precursor protein-binding, family A, member 3	NM_018758	-1.03109
OLFACTORY RECEPTOR GA_X6K02T2PBj9-6037823-6038782. [Source:SPTREMBL;Acc:Q		-1.03664
Mus musculus archain 1 (Arcn1), mRNA [NM_145985]	NM_145985	1.15664
Transcribed locus	BG073133	1.01496
Macrophage activation 2 like	BG092512	-1.03281
Unknown		1.1617
Ras-related GTP binding D	AK081204	1.17521
SKI interacting protein	AK009218	-1.301
Synaptojanin 1	AB093272	-1.07347
OLFACTORY RECEPTOR GA_X6K02T2NKPP-822947-822000 (FRAGMENT). [Source:SPTR		1.20602
RIKEN cDNA 1700091G21 gene	AK018920	-1.02906
Unknown		1
RNA binding motif, single stranded interacting protein 2	NM_019711	1.05998
submandibular gland protein C	NM_198927	1.03457
mouse homolog of human ocular albinism 1 (Nettleship-Falls)	NM_010951	-1.038
OLFACTORY RECEPTOR GA_X6K02T2NLDC-33954853-33955794 (FRAGMENT). [Source:5		1.00362
RIKEN cDNA 1700090G07 gene	AK018916	1.03966
Mus musculus RIKEN cDNA A930011F22 gene (A930011F22Rik), mRNA [NM_NM_029985		-1.31151
Mus musculus v-maf musculoaponeurotic fibrosarcoma oncogene family, proteir	NM_010658	1.3487
Mus musculus RIKEN cDNA 6030410K14 gene (6030410K14Rik), mRNA [NM_NM_183221		-1.01524
Mus musculus protocadherin beta 4 (Pcdhb4), mRNA [NM_053129]	NM_053129	1.07297
Unknown		1
Mus musculus pantothenate kinase 2 (Hallervorden-Spatz syndrome) (Pank2), r	NM_153501	-1.28651
amphiregulin	NM_009704	-1.23879
5,10-methylenetetrahydrofolate reductase	NM_010840	1.054
myelin oligodendrocyte glycoprotein	NM_010814	1.06882
TATA box binding protein	NM_013684	1.06747
RIKEN cDNA 4933424C13 gene	AK016886	1.05197
myeloid ecotropic viral integration site 1	NM_010789	-1.04126
Mus musculus RIKEN cDNA 2610318C08 gene (2610318C08Rik), mRNA [NM_NM_181589		1.08244

Sal-like 4 (Drosophila)	AK017633	1.05015
Mus musculus RIKEN cDNA 2810417M05 gene (2810417M05Rik), mRNA [NM_177696]	NM_026516	-1.46567
Mus musculus nebulin mRNA, partial cds.	AF203898	1.09135
hypothetical protein 4921513O04	NM_177696	1.22916
Xlr-related, meiosis regulated	NM_009529	1.03155
thrombospondin 2	NM_011581	-1.23273
Mus musculus RIKEN cDNA 6030446I19 gene (6030446I19Rik), mRNA [NM_177696]	NM_146122	-1.28465
RIKEN cDNA 5830468K18 gene	AK030952	-1.00676
RIKEN cDNA 1810020C19 gene	BC018196	-1.09059
Similar to Histone H2B 291B	BC019122	1.1474
Eph receptor A2	NM_010139	1.22932
Mus musculus cerebellin 4 precursor protein (Cbln4), mRNA [NM_175631]	NM_175631	-1.06846
Mus musculus metallothionein 3 (Mt3), mRNA [NM_013603]	NM_013603	1.03242
Unknown		1.02942
Mus musculus killer cell lectin-like receptor, subfamily A, member 7 (Klra7), mRNA [NM_014194]	NM_014194	1.01369
Mus musculus microtubule-associated protein, RP/EB family, member 3 (Mapre3), mRNA [NM_133350]	NM_133350	1.07244
Mus musculus myotubularin related protein 6 (Mtmr6), mRNA [NM_144843]	NM_144843	-1.43338
OLFACTORY RECEPTOR GA_X6K02T2PMLR-5831021-5830086. [Source:SPTREMBL;Acc:U000000000]		1.00895
flavin containing monooxygenase 5	NM_010232	-1.31175
Unknown		-1.24274
Mus musculus cDNA sequence BC024093 (BC024093), mRNA [NM_172049]	NM_172049	-1.15096
MutL homolog 3 (E coli)	AK035887	-1.01051
Mus musculus cDNA sequence BC057552 (BC057552), mRNA [NM_172502]	NM_172502	1.02554
Mus musculus olfactory receptor 204 (Olfr204), mRNA [NM_146992]	NM_146992	1.10528
RIKEN cDNA D030005H02 gene	C85351	1.0094
matrilin 3	NM_010770	1.06299
Mus musculus RIKEN cDNA 6720461J16 gene (6720461J16Rik), mRNA [NM_175551]	NM_175551	-1.13541
Male sterility domain containing 1	BC055759	-1.01064
keratin-associated protein 15	NM_013713	-1.0318
Nipped-B homolog (Drosophila)	AK014915	1.01128
Mus musculus cDNA sequence BC034204 (BC034204), mRNA [NM_178420]	NM_178420	-1.01598
Unknown		1.05978
RIKEN cDNA 9430028L06 gene	BC026614	1.02568
T-box 19	AF348321	1.07607
C1q and tumor necrosis factor related protein 6	NM_028331	1.00762
Proteasome (prosome, macropain) 26S subunit, ATPase 3, interacting protein	AB000121	-1.19681
hypothetical protein 9830107B12	NM_177824	1.00897
Mus musculus dystonin (Dst), mRNA [NM_134448]	NM_134448	1.11022
Unknown		1.03014
Mus musculus RIKEN cDNA 2310061J03 gene (2310061J03Rik), mRNA [NM_133677]	NM_133677	-1.06259
syntaxin 1 a	NM_016801	1.1212
Mus musculus RIKEN cDNA 2010016F14 gene (2010016F14Rik), mRNA [NM_183268]	NM_183268	-1.02653
Mus musculus RIKEN cDNA 4930415J21 gene (4930415J21Rik), mRNA [NM_177767]	NM_177767	1.07049
Mus musculus H2A histone family, member Y (H2afy), mRNA [NM_012015]	NM_012015	1.03145
Plakophilin 4	AK077250	-1.10965
prodynorphin	NM_018863	1.00825
Mus musculus defensin beta 15 (Defb15), mRNA [NM_139222]	NM_139222	1.30107
RIKEN cDNA 4930584F24 gene	AK005600	-1.26799
sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaplanin 1)	NM_011352	1.07174
RIKEN cDNA 4921504K03 gene	AK019535	1.04534
von Hippel-Lindau syndrome homolog	NM_009507	1.03404
UI-M-AH0-act-f-06-0-UI.s1 NIH_BMAP_MCE Mus musculus cDNA clone UI-M-AH0-act-f-06-0-UI.s1	AI840275	-1.10555

Mus musculus RIKEN cDNA 7420402K12 gene (7420402K12Rik), mRNA [NM_	NM_177070	1.12535
Mus musculus translocase of outer mitochondrial membrane 22 homolog (yeast	NM_172609	-1.43527
opioid receptor-like	NM_011012	1.12641
RIKEN cDNA 9130008F23 gene	AK033670	-1.03703
Mus musculus RIKEN cDNA 9030406N13 gene (9030406N13Rik), mRNA [NM_	NM_172495	1.04893
nuclear receptor subfamily 6, group A, member 1	NM_010264	1
Transient receptor potential cation channel, subfamily M, member 2	NM_138301	-1.26931
RIKEN cDNA 1300009F09 gene	NM_025828	-1.23533
Mus musculus RIKEN cDNA 0610009H20 gene (0610009H20Rik), mRNA [NM_	NM_175360	1.06891
Transient receptor potential cation channel, subfamily V, member 5	AK085479	-1.01822
hypothetical protein, MNCb-1504	NM_021372	-1.08455
A kinase (PRKA) anchor protein 11	AK032821	1.14215
NADPH cytochrome B5 oxidoreductase	AK009272	-1.54943
Unknown		1.02807
Tripartite motif-containing 61	NM_153110	1.03166
Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 11 (Ppp1r11	NM_029632	1.15172
Mus musculus hypothetical protein Hbxap (Hbxap), mRNA [XM_133622]	XM_133622	-1.10443
Mus musculus carboxypeptidase A4 (Cpa4), mRNA [NM_027926]	NM_027926	-1.02182
Similar to hypothetical protein FLJ11749	BC027085	1.03621
karyopherin (importin) alpha 2	NM_010655	-1.13862
Mus musculus RIKEN cDNA 6330516O17 gene (6330516O17Rik), mRNA [NM_	NM_029531	-1.1575
RIKEN cDNA 4930569F06 gene	AK019794	1.0433
Unknown		-1.04769
DNA segment, Chr 12, Wayne State University 118, expressed	BC027567	1.00096
Unknown		1.01216
tissue inhibitor of metalloproteinase	NM_011593	1.11215
Zinc fingers and homeoboxes protein 1	Z54200	-1.29808
Nebulette	AK077332	-1.16703
RIKEN cDNA 4930412D23 gene	BY714663	1.17034
RIKEN cDNA 4833415N24 gene	NM_026126	1.04841
Mus musculus kelch repeat and BTB (POZ) domain containing 3 (Kbtbd3), mRN	NM_026962	-1.01952
proline rich protein	NM_011174	1.26905
Mus musculus RIKEN cDNA 9230105I15 gene (9230105I15Rik), mRNA [NM_0:	NM_030058	-1.01321
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:	AK076599	1.08512
RAB3D, member RAS oncogene family	NM_031874	1.07728
Unknown		1.13438
Mus musculus calbindin 2 (Calb2), mRNA [NM_007586]	NM_007586	1.10151
Glycogen synthase 3, brain	U53218	1.13894
CCR4-NOT transcription complex, subunit 8	AK007581	1.04217
Mus musculus breast cancer metastasis-suppressor 1 (Brms1), mRNA [NM_13:	NM_134155	-1.00765
DNA segment, Chr 11, KL Mohlke 35	NM_030684	1.01783
Fragile X mental retardation gene 2, autosomal homolog	NM_011814	1.10155
Gene model 568, (NCBI)	BC028561	1.14309
Mus musculus expressed sequence AW556797 (AW556797), mRNA [NM_1341	NM_134100	-1.13189
Mus musculus olfactory receptor 427 (Olfr427), mRNA [NM_207158]	NM_207158	1.12505
Mus musculus 5-methyltetrahydrofolate-homocysteine methyltransferase reduct	NM_172480	1.24972
lysyl oxidase	NM_010728	-1.64453
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:	AK016397	-1.06364
Shugoshin-like 2 (S. pombe)	AK042448	-1.10346
Histocompatibility 47	AF335543	-1.77986
mesoderm development candidate 1	NM_030705	1.09386
Mus musculus insulin-like growth factor I receptor (Igf1r), mRNA [NM_010513]	NM_010513	1.1117

RIKEN cDNA 5730427N09 gene	NM_021552	-1.02178
Mus musculus RIKEN cDNA 1190006E07 gene (1190006E07Rik), mRNA [NM_	NM_026879	-1.67155
Mus musculus RIKEN cDNA 1700010M22 gene (1700010M22Rik), mRNA [NM_	NM_025490	-1.1856
Unknown		1.34423
RIKEN cDNA 4432409M07 gene	AK040537	1.01758
Sine oculis-related homeobox 4 homolog (Drosophila)	D50418	-1.0134
Unknown		1.10466
ATPase, Cu ⁺⁺ transporting, alpha polypeptide	AK030847	-1.90265
Mus musculus uridine-cytidine kinase 1 (Uck1), mRNA [NM_011675]	NM_011675	1.15017
Mus musculus RIKEN cDNA 9230112O05 gene (9230112O05Rik), mRNA [NM_	NM_173347	1.01906
Phosphoribosyl pyrophosphate amidotransferase	BC006053	1.1216
peptidylprolyl isomerase A	NM_008907	-1.06237
RIKEN cDNA C230040D10 gene	AK082350	1.09845
Mus musculus calcium channel, voltage-dependent, beta 4 subunit (Cacnb4), m	NM_146123	1.02937
Mus musculus melanoma antigen, family E, 1 (Magee1), mRNA [NM_053201]	NM_053201	-1.06808
Mus musculus synovial sarcoma translocation gene on chromosome 18-like 1 (5	NM_178750	-1.00798
RIKEN cDNA 2310037B18 gene	NM_026510	1.07086
RIKEN cDNA 2010005H15 gene	NM_029733	-1.28152
Mus musculus Kruppel-like factor 16 (Klf16), mRNA [NM_078477]	NM_078477	-1.14358
Mus musculus similar to HMG-1 (LOC384082), mRNA [XM_357408]	XM_357408	-1.34677
Mus musculus jumonji, AT rich interactive domain 1B (Rbp2 like) (Jarid1b), mR	NM_152895	1.09941
UI-M-AN0-aco-g-05-0-UI.s1 NIH_BMAP_MBG Mus musculus cDNA clone UI-M-	AI839445	1.14025
melanoma antigen, family B, 1	NM_010759	-1.01973
pescadillo homolog 1, containing BRCT domain (zebrafish)	NM_022889	-1.0541
forkhead box B1	NM_022378	1.12422
Mus musculus RIKEN cDNA A530082C11 gene (A530082C11Rik), mRNA [NM_	NM_177186	1.11698
Expressed sequence AW557046	AW557046	1.07743
Mus musculus vomeronasal 1 receptor, E10 (V1re10), mRNA [NM_134229]	NM_134229	1.05927
Unknown		1.10425
CEA-related cell adhesion molecule 10	NM_007675	1.07755
parvalbumin	NM_013645	1.03239
RIKEN cDNA 2310009E04 gene	AK082737	1.03279
UI-M-BH0-akg-f-02-0-UI.s1 NIH_BMAP_M_S1 Mus musculus cDNA clone UI-M-	AI851161	-1.16783
retinoschisis 1 homolog (human)	NM_011302	1.06448
RIKEN cDNA 2610036A22 gene	BY710919	-1.22437
RIKEN cDNA 0610010O12 gene	BC028765	-1.40299
RIKEN cDNA 3830408G10 gene	AK014427	1.01085
Mus musculus ADP-ribosylation factor-like 8 (Arl8), mRNA [NM_029466]	NM_029466	1.05378
Hypothetical protein E130101M22	AF374169	1.15112
Unknown		-1.03284
Mus musculus similar to hypothetical protein FLJ20729 (LOC229937), mRNA [X	XM_131228	-1.65547
Mus musculus sushi domain containing 2 (SUSD2), mRNA [NM_027890]	NM_027890	1.02878
forkhead box L1	NM_008024	1.34408
major urinary protein 1	NM_031188	1.01504
kinase insert domain protein receptor	NM_010612	1.16621
Mus musculus RIKEN cDNA 2010009L17 gene (2010009L17Rik), mRNA [NM_	(NM_025630	-1.34601
Mus musculus zinc finger protein 512 (Zfp512), mRNA [NM_172993]	NM_172993	1.11888
solute carrier family 26 (sulfate transporter), member 2	NM_007885	1.06519
Mus musculus RIKEN cDNA A930010E21 gene (A930010E21Rik), mRNA [NM_	NM_173418	1.04342
Mus musculus aquarius (Aqr), mRNA [NM_009702]	NM_009702	-1.10027
protein tyrosine phosphatase, receptor type, K	NM_008983	1.06495
midnolin	NM_021565	1.23583

Hydroxysteroid dehydrogenase-3, delta<5>-3-beta	M77015	1.10055
Mus musculus spectrin beta 1 (Spnb1), mRNA [NM_013675]	NM_013675	1.04302
RIKEN cDNA 4930548G07 gene	NM_023773	-1.25824
DNA segment, Chr 12, ERATO Doi 551, expressed	AK009987	1.12813
Mus musculus hypothetical protein D030023K18 (D030023K18), mRNA [XM_109726]	XM_109726	1.62133
gamma-parvin	NM_022321	1.07431
cytochrome c, somatic	NM_007808	-1.47076
AAP70855.1 olfactory receptor GA_x6K02T2NKPP-622179-621244 [Mus musculus] [NP81843]		1.00719
ATP synthase, H ⁺ transporting, mitochondrial F0 complex subunit F	NM_016755	-1.22565
Mus musculus RIKEN cDNA 1200013B08 gene (1200013B08Rik), mRNA [NM_028773]	NM_028773	-1.22259
nodal	NM_013611	1.08613
Mus musculus arginyl-tRNA synthetase-like (Rarsl), mRNA [NM_181406]	NM_181406	-1.17711
Mus musculus RIKEN cDNA 1200013I08 gene (1200013I08Rik), mRNA [NM_028774]	NM_028774	-1.30827
RIKEN cDNA 1200013A08 gene	NM_024263	-1.28531
potassium inwardly-rectifying channel, subfamily J, member 3	NM_008426	1.09027
Mus musculus ribosomal protein S24 (Rps24), transcript variant 2, mRNA [NM_207634]	NM_207634	-1.39844
Braf transforming gene	AK088830	-1.09383
Mus musculus RIKEN cDNA F630022B06 gene (F630022B06Rik), mRNA [NM_172822]	NM_172822	1.13635
farnesyltransferase, CAAX box, alpha	NM_008033	-1.19248
N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 3	NM_031186	1.0537
Neuron navigator 2	BC026601	-1.0932
Mus musculus 0 day neonate eyeball cDNA, RIKEN full-length enriched library,	AK053713	1.00932
Mus musculus procollagen, type XXIII, alpha 1 (Col23a1), mRNA [NM_153393]	NM_153393	1.1665
LIM and SH3 protein 1	NM_010688	1.00974
Mus musculus RIKEN cDNA C330017I15 gene (C330017I15Rik), mRNA [NM_178403]	NM_178403	1.01526
Coxsackievirus and adenovirus receptor	AK011900	-1.30438
RIKEN cDNA B230217C12 gene	AK082773	-1.01282
Zinc finger protein 28	M36516	-1.01374
Presenilin associated, rhomboid-like	AK039142	1
Mus musculus platelet-derived growth factor, D polypeptide (Pdgfd), mRNA [NM_027924]	NM_027924	-1.18843
Neuralized-like homolog (Drosophila)	Y15160	1.02607
myosin heavy chain, cardiac muscle, adult	NM_010856	1.32123
Homeodomain interacting protein kinase 2	NM_010433	1.19235
RIKEN cDNA 3110038O15 gene	AK035905	1.32053
Mus musculus adenylate cyclase 5 (Adcy5), mRNA [XM_156060]	XM_156060	1.03771
CD72 antigen	NM_007654	1.01203
f-box only protein 6b	NM_015797	1.03315
Cell cycle progression 1	BC006717	-1.31216
mitochondrial transcription termination factor 1	NM_172135	-1.1064
RIKEN cDNA 2310008M20 gene	NM_025512	-1.06392
Mus musculus myeloid leukemia factor 2 (Mlf2), mRNA [NM_145385]	NM_145385	-1.43584
Mus musculus zinc finger protein 334 (Zfp334), mRNA [NM_178411]	NM_178411	-1.00453
beta-site APP cleaving enzyme	NM_011792	1.1619
testicular serine protease 2	NM_009356	1.09395
Mus musculus RIKEN cDNA 1700029G01 gene (1700029G01Rik), mRNA [NM_025856]	NM_025856	-1.02148
Mus musculus cDNA sequence, BC016579 (BC016579), mRNA [NM_145389]	NM_145389	-1.05239
Nuclear receptor subfamily 2, group C, member 1	L26957	-1.094
Mus musculus potassium channel tetramerisation domain containing 7 (Kctd7),	NM_172509	1.07715
Leucine-rich repeat-containing G protein-coupled receptor 6	BC026896	1.22331
OLFACTORY RECEPTOR GA_X6K02T2PVTD-33416730-33417668. [Source:SPTREMBL;Acc		-1.12194
DNA segment, Chr 8, ERATO Doi 738, expressed	BC024662	-1.33525
serine/arginine-rich protein specific kinase 1	NM_016795	1.08928

Centaurin, delta 1	AK039153	1.09639
POU domain, class 6, transcription factor 1	NM_010127	-1.1052
Solute carrier family 6 (neurotransmitter transporter, taurine), member 6	AF020194	1.29026
hypothetical protein 4832406C22	NM_173395	-1.02646
Mus musculus cDNA sequence BC064033 (BC064033), mRNA [NM_173375]	NM_173375	-1.14965
Suppressor of initiator codon mutations, related sequence 1 (S. cerevisiae)	AF129888	-1.23951
RIKEN cDNA A730004I20 gene	AK036732	-1.00824
Unknown		1.16032
Mus musculus RIKEN cDNA 2010013E08 gene (2010013E08Rik), mRNA [NM_175152]	NM_175152	1.0898
High mobility group box 2-like 1	AK014640	1.05895
Expressed sequence AI194318	AK032208	1.00574
SET and MYND domain containing 4	AK089959	-1.12478
Unknown		-1.2422
Mus musculus brain expressed myelocytomatosis oncogene (Bmyc), mRNA [NM_023326]	NM_023326	-1.27076
SEC61, alpha subunit 2 (S. cerevisiae)	NM_021305	1.13078
solute carrier family 22 (organic cation transporter), member 3	NM_011395	-1.03249
RIKEN cDNA 4930503E15 gene	AK015687	1.12262
EGL nine homolog 1 (C. elegans)	AJ310546	1.00755
Mus musculus cDNA sequence BC020184 (BC020184), mRNA [NM_144865]	NM_144865	1.09629
apolipoprotein B48 receptor	NM_138310	1.13461
Mus musculus eukaryotic translation initiation factor 3, subunit 5 (epsilon) (Eif3s)	NM_025344	1.27809
RIKEN cDNA E430018M08 gene	AK088482	1.0583
Max dimerization protein 3	NM_016662	-1.03903
Mus musculus cDNA sequence BC026439 (BC026439), mRNA [NM_172378]	NM_172378	1.04906
Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, c	AK047949	1.13696
Ubinuclein 1	AK084046	-1.2261
Enabled homolog (Drosophila)	AK076131	-1.11377
CDNA sequence BC018462	AB041804	1.01898
calcium-sensing receptor	NM_013803	1.0253
Mus musculus RIKEN cDNA 2310043K02 gene (2310043K02Rik), mRNA [NM_025869]	NM_025869	-1.28225
paired-like homeodomain transcription factor 1	NM_011097	-1.16167
crystallin, gamma A	NM_007774	1.11885
Mus musculus cDNA sequence BC027061 (BC027061), mRNA [NM_183165]	NM_183165	-1.29474
RIKEN cDNA 5830471E12 gene	AK020023	-1.38469
formin binding protein 3	NM_018785	-1.08776
RIKEN cDNA 2410018C20 gene	NM_026423	1.17176
RIKEN cDNA 2810047F03 gene	AK009836	-1.00265
meprin 1 beta	NM_008586	1.04628
Tubulin, gamma complex associated protein 5	AK044887	-1.04086
RIKEN cDNA A930021C24 gene	AK042897	1.09987
purinergic receptor P2X, ligand-gated ion channel, 1	NM_008771	1.04655
RIKEN cDNA E430016L07 gene	AK050882	-1.02109
Unknown		1.04764
Mus musculus RIKEN cDNA 2410129E14 gene (2410129E14Rik), mRNA [NM_023716]	NM_023716	1.16227
Mus musculus phosphoribosyl pyrophosphate synthetase-associated protein 2 (NM_144806)	NM_144806	-1.29686
Mus musculus RIKEN cDNA D030046N04 gene (D030046N04Rik), mRNA [NM_173189]	NM_173189	-1.07118
FK506 binding protein 8 (38 kDa)	NM_010223	1.13824
RIKEN cDNA 9830002I17 gene	AK041376	1.09525
RIKEN cDNA 1190017B19 gene	NM_023175	1.00033
RIKEN cDNA 2900006N09 gene	AK013495	-1.0469
kallikrein 8	NM_008940	1.06932
adenylate cyclase 8	NM_009623	-1.02764

OLFACTORY RECEPTOR GA_X6K02T2RE5P-3987000-3987950. [Source:SPTREMBL;Acc:C		1.06029
RIKEN cDNA 1810009O10 gene	AK032408	-1.05444
Ectonucleotide pyrophosphatase/phosphodiesterase 6	AK014741	-1.01828
Mus musculus RIKEN cDNA 6330407J23 gene (6330407J23Rik), mRNA [NM_(NM_026138		-1.01427
Toll-like receptor 6	NM_011604	-1.24813
RIKEN cDNA 3110030K20 gene	NM_026080	1.09907
max binding protein	NM_010813	1.16417
Unknown		1.00799
601780143F1 NCI_CGAP_Lu30 Mus musculus cDNA clone IMAGE:4008179 5' BF135103		1.00545
RIKEN cDNA 2900073G15 gene	NM_026064	-1.18927
T-complex responder, Smok(Tcr) gene, t6 allele strain t-haplotype t6	AJ245452	1.10617
Unknown		1.12051
Mus musculus RIKEN cDNA 2810423E13 gene (2810423E13Rik), mRNA [NM_NM_028140		-1.27274
Mus musculus ankyrin repeat and SOCS box-containing protein 10 (Asb10), mRN	NM_080444	-1.04937
RIKEN cDNA E430023H19 gene	BC065395	-1.09835
Mus musculus RIKEN cDNA 2010012F05 gene (2010012F05Rik), mRNA [NM_NM_029362		-2.76939
Mus musculus dispatched homolog 1 (Drosophila) (Disp1), mRNA [NM_026866;NM_026866		1.03577
HCF-binding transcription factor Zhangfei	AV327114	-1.44247
Mus musculus Cdc42 binding protein kinase beta (Cdc42bpb), mRNA [NM_1831NM_183016		1.0793
601772573F1 NCI_CGAP_Lu29 Mus musculus cDNA clone IMAGE:3991579 5' BF164601		-1.09289
Mus musculus cytochrome P450, family 2, subfamily c, polypeptide 38 (Cyp2c3;NM_010002		1.01212
Mus musculus cDNA sequence BC046331 (BC046331), mRNA [NM_177673] NM_177673		1.38812
Mus musculus olfactory receptor 148 (Olfr148), mRNA [NM_146505]	NM_146505	1.08447
Mus musculus junction adhesion molecule 4 (Jam4), mRNA [NM_028078]	NM_028078	-1.05817
glial cell line derived neurotrophic factor family receptor alpha 4	NM_020014	-1.00116
Mus musculus RIKEN cDNA 2310069I04 gene (2310069I04Rik), mRNA [NM_1;NM_133715		1.02498
vomer nasal 2, receptor, 12	NM_009488	1.24097
Unknown		-1.23913
Unknown		1.02661
Mus musculus RIKEN cDNA D230014K01 gene (D230014K01Rik), mRNA [NM_NM_172573		1.0219
RIKEN cDNA 2310034L04 gene	NM_026417	-1.13711
RIKEN cDNA 4833422F06 gene	BC061236	-1.00474
RIKEN cDNA 1110012J17 gene	AK051750	1.11967
RIKEN cDNA E330024J20 gene	AK003824	-1.02323
Mus musculus RIKEN cDNA 1500016H10 gene (1500016H10Rik), mRNA [NM_NM_025433		-1.14986
Mus musculus solute carrier organic anion transporter family, member 4a1 (Slcc	NM_148933	-1.13508
A1A1_MOUSE Alpha-1-acid glycoprotein 3 precursor (AGP 3) (Orosomuroid 3) (OMD 3). [Mou:		1.16127
Mus musculus APG4 (ATG4) autophagy-related homolog B (S. cerevisiae) (Apg	NM_174874	-1.09861
CDNA sequence BC029127	BC029127	-1.04281
RIKEN cDNA 1810009M01 gene	NM_023056	1.15868
phospholipase A2, group IIF	NM_012045	-1.02125
RIKEN cDNA 4933431M11 gene	AK017014	1.13962
N-deacetylase/N-sulfotransferase (heparin glucosaminyl) 4	NM_022565	1.20992
Mus musculus RIKEN cDNA 1110001C20 gene (1110001C20Rik), mRNA [NM_NM_177730		1.03041
Unknown		1.14285
serine protease inhibitor 8	NM_011459	-1.13704
Mus musculus olfactory receptor 959 (Olfr959), mRNA [NM_146508]	NM_146508	1.0036
Mus musculus DNA segment, Chr 16, ERATO Doi 480, expressed (D16Ert480	NM_144550	1.0049
Mus musculus similar to odorant receptor K4h17 (LOC235247), mRNA [XM_14(XM_146774		1.0561
Mus musculus olfactory receptor 1013 (Olfr1013), mRNA [NM_146762]	NM_146762	1.00635
Mus musculus RIKEN cDNA 4632419I10 gene (4632419I10Rik), mRNA [XM_1(XM_194114		-1.05646
RIKEN cDNA 1300003B13 gene	AK004870	1

RAB2, member RAS oncogene family	NM_021518	-1.3051
Distal-less homeobox 6	AF022078	1.12827
Mus musculus RIKEN cDNA 4921501M20 gene (4921501M20Rik), mRNA [NM_	NM_028728	1.30755
serine protease inhibitor 2-2	NM_009252	-1.35873
glycoprotein 49 A	NM_008147	-1.13824
Mus musculus olfactory receptor 429 (Olf429), mRNA [NM_146722]	NM_146722	1.01204
RIKEN cDNA 2310004N24 gene	AK009156	-1.13699
Chondroitin sulfate proteoglycan 2	D28599	1.10549
Similar to hypothetical protein FLJ36119	AK014686	1.03453
Mus musculus RIKEN cDNA 1100001I19 gene (1100001I19Rik), mRNA [NM_1	NM_172920	-1.12678
Unknown		1.02542
UI-M-AM0-adr-b-10-0-UI.s1 NIH_BMAP_MAM Mus musculus cDNA clone UI-M-	AI840671	1.19399
RIKEN cDNA 2900027G03 gene	NM_028375	1.04951
RIKEN cDNA 2310010I16 gene	NM_025519	1.08857
Unknown		1.04301
Dolichyl-phosphate mannosyltransferase polypeptide 3	BC037761	-1.21177
Mus musculus RIKEN cDNA 4121402D02 gene (4121402D02Rik), mRNA [NM_	NM_028722	1.17156
Mus musculus RIKEN cDNA 4933433P14 gene (4933433P14Rik), mRNA [NM_	NM_178613	-1.5876
RIKEN cDNA 4933427E13 gene	AK016948	1.06991
a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin typ	NM_009621	1.12171
Mus musculus RIKEN cDNA 2810002N01 gene (2810002N01Rik), mRNA [NM_	NM_026511	-1.31346
Expressed sequence AU042671	AK037094	-1.21593
RIKEN cDNA 1110035E17 gene	NM_021453	-1.03443
regulated endocrine-specific protein 18	NM_009049	1.18753
Dihydrofolate reductase	AK018462	-1.01609
calpain 6	NM_007603	1.01117
leukotriene B4 receptor 2	NM_020490	1.04907
Mus musculus retinol dehydrogenase 9 (Rdh9), mRNA [NM_153133]	NM_153133	-1.05084
Mus musculus downregulated in Zic1 deficient cerebellum (Dorz1), mRNA [NM_	NM_145919	1.1263
Mus musculus olfactory receptor 1145 (Olf1145), mRNA [NM_146320]	NM_146320	1.16087
Mus musculus RIKEN cDNA 2610002D18 gene (2610002D18Rik), mRNA [XM_	XM_131720	-1.09342
Neuregulin 1	AK048708	-1.04433
Mus musculus aldo-keto reductase family 1, member C20 (Akr1c20), mRNA [NM	NM_054080	1.05088
formin-like	NM_019679	-1.33285
Maestro	AK017067	1.15908
Mus musculus adult male kidney cDNA, RIKEN full-length enriched library, clone	AK002502	1.05746
fucosyltransferase 9	NM_010243	-1.02842
Mus musculus nescient helix loop helix 2 (Nhlh2), mRNA [NM_178777]	NM_178777	1.10161
gene rich cluster, C2f gene	NM_013536	-1.19511
WD repeat and FYVE domain containing 2	AK045072	-1.03844
Retinol dehydrogenase 11	AK077207	1.04815
Transcribed locus, strongly similar to NP_001000688.1 olfactory receptor Olf43f	CB174485	1.06321
Unknown		1.08064
Solute carrier family 4, sodium bicarbonate transporter-like, member 11	BC036154	1.10013
Mus musculus expressed sequence AI597479 (AI597479), mRNA [NM_133818]	NM_133818	-1.01777
gametogenetin binding protein 1	BC054732	-1.02749
Sec1 family domain containing 2	AK089011	1.04152
Talin 2	BF783927	1.26696
Mus musculus hypermethylated in cancer 2 (Hic2), mRNA [NM_178922]	NM_178922	1.30524
RIKEN cDNA 5033425B17 gene	AK010168	-1.09608
ST6 (alpha-N-acetyl-neuraminy1-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminic	NM_011372	1.10894
Mus musculus aminopeptidase-like 1 (Npepl1), mRNA [NM_213733]	NM_213733	1.14377

solute carrier family 10 (sodium/bile acid cotransporter family), member 1	NM_011387	1.10252
Kinesin family member 13B	AK031370	1.15023
protocadherin alpha 6	NM_007767	1.02563
wingless-related MMTV integration site 2	NM_023653	1.05213
syntaxin binding protein 2	NM_011503	1.16751
Mus musculus tripartite motif protein 32 (Trim32), mRNA [NM_053084]	NM_053084	1.00217
Patched domain containing 1	AK036111	-1.0451
RIKEN cDNA 2610030J16 gene	NM_026404	-1.17771
Mus musculus olfactory receptor 1143 (Olfr1143), mRNA [NM_146293]	NM_146293	1.01493
Mus musculus MRP17 mRNA.	AF240180	1
Mus musculus WD repeat domain 5 (Wdr5), mRNA [NM_080848]	NM_080848	1.03816
Potassium voltage-gated channel, shaker-related subfamily, beta member 1	AK031381	1.08553
AGENCOURT_10166960 NIH_MGC_134 Mus musculus cDNA clone IMAGE:6:	BU519527	-1.2197
RIKEN cDNA 5832418A03 gene	AK077813	-1.00672
potassium inwardly rectifying channel, subfamily J, member 11	NM_010602	1.0931
exportin 4	NM_020506	-1.20364
Mus musculus RIKEN cDNA 1700001C02 gene (1700001C02Rik), mRNA [NM_	NM_029285	-1.03773
Unknown		1
RIKEN cDNA 1500032A17 gene	NM_025449	1.16363
Mus musculus olfactory receptor 821 (Olfr821), mRNA [NM_146776]	NM_146776	1.06552
EGF-like-domain, multiple 4	BC036727	-1.14843
Mus musculus RIKEN cDNA 2810441A10 gene (2810441A10Rik), mRNA [NM_	NM_026045	-1.27735
GATA-binding protein 1	NM_008089	1.1461
RIKEN cDNA 4930552N02 gene	AK016098	1.06899
Mus musculus homeo box C10 (Hoxc10), mRNA [NM_010462]	NM_010462	-1.02781
Mus musculus DNA segment, Chr 5, ERATO Doi 135, expressed (D5Ert135e),	NM_172490	1.22965
neuraminidase 3	NM_016720	-1.01443
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7	AK049105	1.09014
cell division cycle 6 homolog (S. cerevisiae)	NM_011799	-1.04878
ajuba	NM_010590	-1.08804
Nuclear receptor subfamily 1, group I, member 3	AK028388	-1.17417
Interleukin 31	AK005939	-1.03024
glutamate receptor, ionotropic, NMDA1 (zeta 1)	NM_008169	1.01545
Similar to Nucleoporin 50 kDa (Nuclear pore-associated protein 60 kDa-like) (PF	BC026810	-1.07337
Delta/notch-like EGF-related receptor	AF370126	-1.08558
Mus musculus protocadherin alpha 7 (Pcdha7), mRNA [NM_009957]	NM_009957	1.1943
Mus musculus calcium binding protein 4 (Cabp4), mRNA [NM_144532]	NM_144532	-1.03775
Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clon	AK010085	-1.08323
WD repeat domain 43	AK129031	-1.0418
Unknown		1.02629
lecithin cholesterol acyltransferase	NM_008490	1.12301
Mus musculus RIKEN cDNA 2310006M14 gene (2310006M14Rik), mRNA [XM_	XM_129448	1.03455
sialyltransferase (N-acetylglucosaminide alpha 2,3-sialyltransferase)	NM_009176	1.03907
SET binding factor 1	AK129485	1.11042
Relaxin 1	Z27088	1.02432
Solute carrier family 30 (zinc transporter), member 8	Z47772	1.01719
very low density lipoprotein receptor	NM_013703	-1.2466
heat shock protein, 70 kDa 4	NM_015765	-1.38486
CD152 antigen	NM_009843	-1.00391
Mus musculus tripartite motif protein 3 (Trim3), mRNA [NM_018880]	NM_018880	1.29901
Unknown		1.10406
zinc finger protein 111	NM_019940	-1.15711

Similar to phosphoinositide-3-kinase, regulatory subunit 4, p150; phosphatidylinositol 3-kinase, regulatory subunit 4, p150	AK008703	-1.28148
Mus musculus RIKEN cDNA C330012H03 gene (C330012H03Rik), mRNA [NM_183029]	NM_183029	-1.16115
G protein-coupled receptor 63	NM_030733	1.11528
SH3/ankyrin domain gene 3	NM_021423	1.0286
Mus musculus RIKEN cDNA D930010J01 gene (D930010J01Rik), mRNA [NM_134147]	NM_134147	1.18209
Mus musculus bone morphogenetic protein 1 (Bmp1), mRNA [NM_009755]	NM_009755	1.12194
SRY-box containing gene 5	NM_011444	1.14151
Unknown		-1.00083
AAP71255.1 olfactory receptor GA_x6K02T2PSCP-2579687-2578746 [Mus musculus] [NP818]		-1.05174
Unknown		1.08442
RIKEN cDNA 1110059G10 gene	NM_025419	-1.22665
Pre-B lymphocyte gene 3	NM_009514	1.09384
OR_2o19A09_010501.y4 Adult mouse olfactory epithelium library Mus musculus	CB172978	1.02374
EWS/FLI1 activated transcript 2	NM_012009	-1.20989
CDNA sequence BC011467	BC025823	1.05377
interferon-stimulated protein (15 kDa)	NM_015783	-1.18759
Down syndrome critical region gene 1-like 2	AF237888	1.05737
Unknown		-1.19317
Galectin-related inter-fiber protein	AK021365	1.12267
RIKEN cDNA A930033C01 gene	AK122245	1.21936
RIKEN cDNA 6230405A16 gene	NM_026374	-1.00447
a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motifs	NM_011782	1.10007
UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5	NM_033149	-1.02839
coagulation factor II (thrombin) receptor	NM_010169	-1.02836
Mus musculus G protein-coupled receptor 156 (Gpr156), mRNA [NM_153394]	NM_153394	1.09435
RIKEN cDNA 2400003N08 gene	NM_178622	1.02034
CCAAT/enhancer binding protein (C/EBP), beta	NM_009883	-1.49706
Hypothetical protein B230208H21	U80889	-1.04689
RIKEN cDNA 9230119C12 gene	AK020361	1.09574
Unknown		1.05244
Unknown		1.06071
Mus musculus RIKEN cDNA 0610039A15 gene (0610039A15Rik), mRNA [NM_175101]	NM_175101	-1.02392
WD repeat domain 37	AK129254	-1.16665
homeo box A10	NM_008263	1.26646
Unknown		1.02344
Mus musculus similar to hypothetical protein (LOC211241), mRNA [XM_146397]	XM_146397	1.05166
EGL nine homolog 3 (C. elegans)	NM_028133	-1.2264
Mus musculus RIKEN cDNA 2810452K22 gene (2810452K22Rik), mRNA [NM_026048]	NM_026048	-1.04847
Unknown		1.06196
Unknown		-1.22923
WD repeat and FYVE domain containing 1	BC025226	-1.05526
Mus musculus RIKEN cDNA 2900009I07 gene (2900009I07Rik), mRNA [NM_026520]	NM_026520	-1.12005
RIKEN cDNA 2810428I15 gene	NM_025577	-1.01611
RIKEN cDNA 1500041J02 gene	AK089038	1.0453
RIKEN cDNA 2610020C11 gene	AK042470	1.02664
M.musculus mRNA for TPCR11 protein.	X89682	1.02135
RIKEN cDNA 1810006K21 gene	BC024923	-1.03946
Unknown		1.00726
Unknown		-1.07322
RIKEN cDNA C330023D02 gene	BC043042	-1.01799
Mus musculus transmembrane protein 7 (Tmem7), mRNA [NM_153100]	NM_153100	1.04119
tubulin, beta 4	NM_009451	1.28954

602875955F1 NCI_CGAP_Mam2 Mus musculus cDNA clone IMAGE:5007924 !BI079946		1.10426
Unknown		-1.14398
secretory leukocyte protease inhibitor	NM_011414	1.04166
Sarcoglycan zeta	AK048960	-1.01501
603382513F1 NCI_CGAP_Mam6 Mus musculus cDNA clone IMAGE:5414883 !BI855434		1
homeo box A7	NM_010455	-1.13981
syndecan 1	NM_011519	1.11546
Mus musculus RIKEN cDNA 1700064K09 gene (1700064K09Rik), mRNA [NM_	NM_175244	-1.08573
Mus musculus RIKEN cDNA 1700003H21 gene (1700003H21Rik), mRNA [NM_	NM_178617	1
mitogen-activated protein kinase 11	NM_011161	1.03461
RIKEN cDNA 5430405G05 gene	AK043999	-1.04035
cyclin D binding myb-like transcription factor 1D-interacting myb-like protein	NM_011806	-1.10742
Gamma-aminobutyric acid (GABA-A) receptor, pi	BC027245	-1.55089
Unknown		1.15455
Mus musculus cDNA sequence BC003885 (BC003885), mRNA [NM_198609]	NM_198609	1.03602
OLFACTORY RECEPTOR GA_X54KRFPKG5P-55314632-55313703. [Source:SPTREMBL;Ac		1.05595
RIKEN cDNA 5730485H21 gene	AK017709	-1.0819
Olfactory receptor 1182	CB173022	1.0225
Mus musculus RIKEN cDNA 3830405G04 gene (3830405G04Rik), mRNA [NM_	NM_172405	-1.21131
phosphodiesterase 6C, cGMP specific, cone, alpha prime	NM_033614	-1.14888
beta-transducin repeat containing protein	NM_009771	-1.17609
interferon induced transmembrane protein 3-like	NM_030694	1.0206
RIKEN cDNA 9330161A08 gene	NM_009178	1.11013
AU RNA-binding protein/enoyl-coenzyme A hydratase	NM_016709	-1.13001
Mus musculus musculoskeletal, embryonic nuclear protein 1 (Mustn1), mRNA [†	NM_181390	-1.3781
Mus musculus SLIT and NTRK-like family, member 4 (Slitrk4), mRNA [NM_178:	NM_178740	-1.03636
RIKEN cDNA 4933431D05 gene	NM_025759	1.07674
Rho GTPase activating protein 19	AK044841	1.04641
Unknown		1.08651
homeo box D10	NM_013554	1.0539
Expressed sequence AI841971	AK078154	1.04315
Mus musculus olfactory receptor 1371 (Olfr1371), mRNA [NM_207253]	NM_207253	1.01964
Angiogenin, ribonuclease A family, member 3	NM_007448	1.09735
Mus musculus RAB39B, member RAS oncogene family (Rab39b), mRNA [NM_	NM_175122	-1.00591
Unknown		-1.03516
Ring finger protein 7	AF092877	-1.61236
DNA segment, Chr 11, Brigham & Women's Genetics 0517 expressed	AF229056	-1.02156
Mus musculus RIKEN cDNA D130026O08 gene (D130026O08Rik), mRNA [NM	NM_153070	-1.00184
ATP-binding cassette, sub-family B (MDR/TAP), member 10	NM_019552	-1.18967
phosphatidylinositol 3-kinase, C2 domain containing, alpha polypeptide	NM_011083	-1.0482
RIKEN cDNA 1100001F19 gene	NM_025356	-1.59469
chemokine orphan receptor 1	NM_007722	-1.14868
Mus musculus RIKEN cDNA 2610524H06 gene (2610524H06Rik), mRNA [NM_	NM_181075	1.07987
hypothetical LOC433022	BC049364	1.0216
OLFACTORY RECEPTOR GA_X6K02T2NLDC-33001193-33002131 (FRAGMENT). [Source:§		1.0387
Unknown		1.05069
RIKEN cDNA 5730407K14 gene	AK017516	1.05107
olfactory receptor NP_TR6JSE50FPA	NM_203509	1.11044
Mus musculus ataxin 2 related protein (A2lp), mRNA [NM_183020]	NM_183020	-1.27981
Mus musculus cDNA sequence BC011248 (BC011248), mRNA [NM_144857]	NM_144857	1.02536
603362152F1 NIH_MGC_94 Mus musculus cDNA clone IMAGE:5369149 5', m	BI739840	1.05797
folate receptor 4 (delta)	NM_022888	1.05429

OLFACTORY RECEPTOR GA_X6K02T2Q125-47629317-47628376. [Source:SPTREMBL;Acc		-1.02584
RIKEN cDNA 4930487N19 gene	AK044235	-1.30027
Mus musculus transient receptor potential cation channel, subfamily M, member	NM_134252	-1.00868
Catenin, beta like 1	AY009405	-1.06181
Expressed sequence AI931714	AK045315	-1.22781
ubiquitin-conjugating enzyme 4	NM_009454	-1.4243
ATPase, H ⁺ /K ⁺ transporting, beta polypeptide, gastric specific	NM_009724	1.04136
Mus musculus Cockayne syndrome 1 homolog (human) (Ckn1), mRNA [NM_02	NM_028042	1.04111
Unknown		1.10385
Mus musculus capping protein (actin filament) muscle Z-line, alpha 1 (Capza1),	NM_009797	-1.34633
Mus musculus hypothetical protein MGC39058 (MGC39058), mRNA [NM_1389	NM_138949	-1.09777
Proprotein convertase subtilisin/kexin type 6	D50060	1.07604
Poly (ADP-ribose) polymerase family, member 14	BC021340	-1.0923
Mus musculus plectin 1 (Plec1), transcript variant 6, mRNA [NM_201389]	NM_201389	1.0136
Ribonuclease H2, large subunit	BC029252	-1.04836
Mus musculus vomeronasal 1 receptor, A7 (V1ra7), mRNA [NM_053222]	NM_053222	1.04003
Mus musculus OTU domain, ubiquitin aldehyde binding 1 (Otub1), mRNA [NM_	NM_134150	1.00486
inhibitor of kappaB kinase epsilon	NM_019777	1.01968
ubiquitin-conjugating enzyme E2 variant 2	NM_023585	-1.03628
Nudix (nucleoside diphosphate linked moiety X)-type motif 11	NM_021431	1.03985
RIKEN cDNA 0610012A11 gene	AK002574	1.14544
transcription elongation factor B (SIII), polypeptide 1 (15 kDa),-like	NM_011543	-1.26072
Tumor suppressor candidate 1	AK008612	-1.09275
RIKEN cDNA 4921521N14 gene	AK029543	-1.24065
DNA segment, Chr 9, University of California at Los Angeles 1	BC034836	1.21955
nuclear autoantigen	NM_052973	-1.35165
OLFACTORY RECEPTOR MOR257-1. [Source:RefSeq;Acc:NM_146987] [ENSMUST0000005		1.02085
transcription factor-like 1	NM_009336	1.10897
Mus musculus cDNA sequence BC021921 (BC021921), mRNA [NM_145624]	NM_145624	1.00082
dihydrolipoamide branched chain transacylase E2	NM_010022	-1.2258
Mus musculus debranching enzyme homolog 1 (<i>S. cerevisiae</i>) (Dbr1), mRNA [N	NM_031403	-1.16815
Mus musculus SEC14-like 1 (<i>S. cerevisiae</i>) (Sec14l1), mRNA [NM_028777]	NM_028777	1.12271
Mus musculus nuclear receptor subfamily 2, group E, member 1 (Nr2e1), mRNA	NM_152229	-1.00324
testis specific gene 1	NM_009420	1.24093
Inhibitor of growth family, member 1-like	AF078834	-1.2553
Mus musculus RWD domain containing 2 (Rwdd2), mRNA [NM_027100]	NM_027100	-1.19741
Mus musculus RIKEN cDNA 4930417P05 gene (4930417P05Rik), mRNA [XM_	XM_131829	1.03134
Mus musculus ryanodine receptor 1, skeletal muscle (Ryr1), mRNA [NM_00910	NM_009109	1.10103
Mus musculus RIKEN cDNA 2900055D14 gene (2900055D14Rik), mRNA [NM_	NM_028411	1.12426
proteolipid protein 2	NM_019755	1.07401
Mus musculus CDC23 (cell division cycle 23, yeast, homolog) (Cdc23), mRNA [	NM_178347	1.22118
carboxypeptidase N, polypeptide 1, 50kD	NM_030703	1.14167
Unknown		1
Pericentrin 1	AK017632	-1.25101
RIKEN cDNA 9430025M13 gene	AK034698	1.28523
Annexin A2	D10024	-1.09599
Mus musculus beta-carotene 9', 10'-dioxygenase 2 (Bcdo2), mRNA [NM_13321	NM_133217	-1.19144
Unknown		1.08459
Zinc finger protein 39	D10629	-1.0546
Mus musculus single WAP motif protein 2 (Swam2), mRNA [NM_138684]	NM_138684	1.04714
Mus musculus RIKEN cDNA 4930438M06 gene (4930438M06Rik), mRNA [NM_	NM_172721	-1.32212
Kinesin family member 16B	AB001423	-1.30035

Mus musculus glucose 6 phosphatase, catalytic, 3 (G6pc3), mRNA [NM_175933]	NM_175935	-1.12734
Dynein, cytoplasmic, light chain 2A	AK008214	-1.35457
Mus musculus START domain containing 8 (Stard8), mRNA [NM_199018]	NM_199018	-1.04238
sphingosine phosphate lyase 1	NM_009163	1.00816
zinc finger protein 98	NM_016793	-1.05787
midline 2	NM_011845	-1.04898
RIKEN cDNA 4732474O15 gene	AK028965	-1.83686
Solute carrier family 6 (neurotransmitter transporter), member 15	NM_175328	-1.26032
Ribosomal protein S6 kinase polypeptide 6	BC054113	-1.13492
adrenergic receptor, alpha 2c	NM_007418	1.01139
Trophinin associated protein	AK050381	1.12137
RIKEN cDNA 5730446C15 gene	BC032261	-1.45302
Mus musculus myosin, light polypeptide 3 (Myl3), mRNA [NM_010859]	NM_010859	1.18644
Mus musculus cartilage acidic protein 1 (Crtac1), mRNA [NM_145123]	NM_145123	1.01582
Mus musculus, clone IMAGE:5361055, mRNA	BI731739	1
Mus musculus testis specific gene A13 (Tsga13), mRNA [NM_054073]	NM_054073	1
lipidosin	NM_053178	1.00878
RIKEN cDNA 2410002F23 gene	BC016099	-1.02829
homeo box A5	NM_010453	1.08809
Mus musculus olfactory receptor 381 (Olfr381), mRNA [NM_147022]	NM_147022	1.09019
thymidine kinase 2, mitochondrial	NM_021028	-1.15772
Unknown		1.05586
Expressed sequence AI849156	BC061469	1.04317
periaxin	NM_019412	-1.0457
Synaptotagmin 11	AK005385	1.07744
TG interacting factor	NM_009372	-1.04258
MYST histone acetyltransferase (monocytic leukemia) 3	AK036885	1.21725
Mus musculus cDNA sequence BC021608 (BC021608), mRNA [NM_138951]	NM_138951	1.40009
Mus musculus RIKEN cDNA 4933404G15 gene (4933404G15Rik), mRNA [NM_028739]	NM_028739	1.01811
Mus musculus toll-interleukin 1 receptor (TIR) domain-containing adaptor protein	NM_054096	1.04218
Mus musculus RIKEN cDNA 4933427E11 gene (4933427E11Rik), mRNA [NM_025756]	NM_025756	1.03765
T-cell leukemia, homeobox 1	NM_021901	1.56279
Mus musculus RIKEN cDNA 4930405J24 gene (4930405J24Rik), mRNA [NM_030181]	NM_030181	1.05691
Protocadherin 9	AK083224	1.01286
Mus musculus clone MBI-109 miscellaneous RNA, partial sequence.	AF357499	1.18878
SH2-B PH domain containing signaling mediator 1	NM_011363	-1.04214
Unknown		1.35823
carbonic anhydrase 15	NM_030558	1.00746
Unknown		1.00631
NADPH oxidase activator 1	AK087263	1.02115
RIKEN cDNA 2400007P05 gene	NM_025882	-1.05974
Mus musculus BRCA1 interacting protein C-terminal helicase 1 (Brip1), mRNA [NM_178309]	NM_178309	-1.02212
Mus musculus solute carrier family 4 (anion exchanger), member 1, adaptor protein	NM_009206	1.07735
16 days embryo head cDNA, RIKEN full-length enriched library, clone:C130070I	AK048538	1.01337
cytochrome P450, 26, retinoic acid	NM_007811	-1.00726
Mus musculus RIKEN cDNA 2410026K10 gene (2410026K10Rik), mRNA [NM_025584]	NM_025584	1.61521
repetin	NM_009100	-1.20722
RIKEN cDNA 1110019B22 gene	AK003805	1.05704
Protein tyrosine phosphatase-like (proline instead of catalytic arginine), member 1	NM_013935	-1.12504
RIKEN cDNA A630038E17 gene	AK039976	1.07112
Clathrin, light polypeptide (Lca)	AI593816	1.01392
DnaJ (Hsp40) homolog, subfamily C, member 3	NM_008929	1.11407

glutamate receptor, ionotropic, delta 1	NM_008166	1.14076
Mus musculus aldo-keto reductase family 1, member D1 (Akr1d1), mRNA [NM_	NM_145364	-1.11481
Unknown		1.02363
myosin light chain 2, precursor lymphocyte-specific	NM_021611	-1.11934
CDC42 effector protein (Rho GTPase binding) 1	BC016250	-1.13316
Unknown		1.19861
Mus musculus glucosamine-6-phosphate deaminase 2 (Gnpda2), mRNA [NM_0	NM_027681	1.05077
Secernin 1	AK129084	-1.06146
601761411F1 NCI_CGAP_Mam5 Mus musculus cDNA clone IMAGE:4024323	!BF124731	1.04514
fibroblast growth factor 5	NM_010203	1.14593
RIKEN cDNA 0610037M15 gene	BC025170	1.1457
Mus musculus similar to Ig heavy chain precursor V region (145) - mouse (LOC: XM_203589		1.02294
Mus musculus RIKEN cDNA 4930583K01 gene (4930583K01Rik), mRNA [NM_	NM_183267	1.05545
RIKEN cDNA 1110002E23 gene	AK019199	-1.18057
Mus musculus RIKEN cDNA 4930519G04 gene (4930519G04Rik), mRNA [NM_	NM_026263	1.15383
Mus musculus olfactory receptor 77 (Olf77), mRNA [NM_146339]	NM_146339	1.02037
Mus musculus carbohydrate (N-acetylgalactosamine 4-0) sulfotransferase 8 (Ch	NM_175140	1.06994
Mus musculus RIKEN cDNA 2010002M12 gene (2010002M12Rik), mRNA [XM_	XM_355182	-1.09084
Transcribed locus	AI504208	-1.10927
Mus musculus RIKEN cDNA 1200002K10 gene (1200002K10Rik), mRNA [NM_	NM_177384	1.1047
Mus musculus EPS8-like 1 (Eps8l1), mRNA [NM_026146]	NM_026146	1.01357
RIKEN cDNA C330027I04 gene	BC015307	-1.15738
SH2 domain protein 1A	NM_011364	1.0021
Solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter),	BC023331	1.0311
CD28 antigen	NM_007642	1.13119
Spectrin beta 3	AF026489	-1.0199
RIKEN cDNA B930042K01 gene	AK008151	1.01689
intercellular adhesion molecule	M33036	-1.04433
RIKEN cDNA 4921539E11 gene	AK015018	1.05568
Trans-acting transcription factor 8	BC023224	1.00241
Mus musculus PHD finger protein 17 (Phf17), mRNA [NM_172303]	NM_172303	-1.13074
tumor rejection antigen P1A	NM_011635	-1.01038
Mus musculus RNA binding motif protein 7 (Rbm7), mRNA [NM_144948]	NM_144948	-1.37279
Mus musculus RIKEN cDNA 0610043B10 gene (0610043B10Rik), mRNA [NM_	NM_026875	1.17061
Similar to 60S ribosomal protein L18a	AK010983	1.09328
catalase 1	NM_009804	-1.33123
tenomodulin	NM_022322	1.06521
Cystatin 11	AK020300	1.1808
ATPase, H ⁺ transporting lysosomal (vacuolar proton pump)	NM_023721	-1.57296
Drebrin 1	AF187147	1.05243
Mus musculus RIKEN cDNA 4930469P12 gene (4930469P12Rik), mRNA [NM_	NM_133688	-1.1833
Vomer nasal 1 receptor, C21	AK082576	1.11542
Mus musculus solute carrier family 25 (mitochondrial carrier, Graves disease au	NM_175194	1.2324
SET translocation	NM_023871	-1.00682
Mus musculus cDNA sequence BC004690 (BC004690), mRNA [NM_146009]	NM_146009	-1.13238
Mus musculus proline rich membrane anchor 1 (Prima1), transcript variant I, mF	NM_133364	-1.04207
Mus musculus RIKEN cDNA 1190004A11 gene (1190004A11Rik), mRNA [NM_	NM_00100226	1.16033
forkhead box N1	NM_008238	1.05765
Unknown		-1.12024
small inducible cytokine A21c (serine)	NM_023052	1.01571
Mus musculus mitochondrial ribosomal protein L15 (Mrpl15), mRNA [NM_02530	NM_025300	1.11263
NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 1	NM_025523	-1.13026

ubiquitin-activating enzyme E1, Chr X	NM_009457	1.17395
Mus musculus dystrophia myotonica-containing WD repeat motif (Dmwd), mRNA	NM_010058	1.07017
RIKEN cDNA 1110056A04 gene	BC052872	1.01116
Mus musculus Sp7 transcription factor (Sp7), mRNA [NM_130458]	NM_130458	1.16506
Zinc finger, X-linked, duplicated A	AK016708	-1.02378
RIKEN cDNA 5730460C07 gene	AK017676	1.01521
Filamin, beta	BC048835	-1.4472
Mus musculus olfactory receptor 996 (Olfr996), mRNA [NM_146437]	NM_146437	1.09701
CT39_HUMAN Protein C20orf39. [Human] {Homo sapiens}, partial (69%) [TC1042873]		-1.29564
Mus musculus keratin associated protein 16-1 (Krtap16-1), mRNA [NM_130870]	NM_130870	1.02202
inositol polyphosphate-5-phosphatase, 72 kDa	NM_033134	-1.16307
OLFACTORY RECEPTOR GA_X6K02T2PSCP-2070203-2069271. [Source:SPTREMBL;Acc:C		1.02282
Mus musculus RIKEN cDNA 9130211I03 gene (9130211I03Rik), mRNA [NM_030060]	NM_030060	1.02109
Mus musculus metallophosphoesterase 1 (Mppe1), mRNA [NM_172630]	NM_172630	1.08303
Mus musculus rotatin (Rtnn), mRNA [NM_175542]	NM_175542	1.00223
associated with Prkcl1	NM_022985	-1.12166
RIKEN cDNA 2900075G08 gene	NM_028408	-1.34713
eyes absent 4 homolog (Drosophila)	NM_010167	1.06673
uropod 3	NM_023478	1.06813
RIKEN cDNA 4930447C04 gene	AK014811	1.02327
T-cell receptor beta, variable 8.3	X02785	1.0692
pre-B-cell leukemia transcription factor 4	NM_030555	-1.06718
Mus musculus leucine-rich repeat LGI family, member 3 (Lgi3), mRNA [NM_145219]	NM_145219	-1.15687
RIKEN cDNA 1810012H11 gene	AK035739	1.03929
Mus musculus regulator of G-protein signalling 9 binding protein (Rgs9bp), mRNA	NM_145840	-1.07091
short stature homeobox 2	NM_013665	-1.2439
Mus musculus cDNA sequence BC019806 (BC019806), mRNA [NM_145460]	NM_145460	-1.03558
Mus musculus RIKEN cDNA 3632410F03 gene (3632410F03Rik), mRNA [NM_028721]	NM_028721	-1.96433
Unknown		1.06463
Mus musculus YLP motif containing 1 (Ylpm1), mRNA [NM_178363]	NM_178363	1.06921
Mus musculus cDNA sequence BC039161 (BC039161), mRNA [XM_127719]	XM_127719	-1.04087
Unknown		1.02722
ubiquitin B	NM_011664	-1.10008
cAMP responsive element modulator	NM_013498	-1.26849
Ngfi-A binding protein 2	NM_008668	-1.02888
RIKEN cDNA 2900092E17 gene	BC053419	1.2732
dual specificity phosphatase 13	NM_013849	-1.11112
ubiquilin 2	NM_018798	1.00713
glutathione S-transferase, mu 6	NM_008184	-1.24958
Mus musculus olfactory receptor 1188 (Olfr1188), mRNA [NM_146919]	NM_146919	1.06372
RIKEN cDNA 3110001N10 gene	NM_027397	-1.04643
epimorphin	NM_007941	-1.20385
proprotein convertase subtilisin/kexin type 1	NM_013628	1.02767
Mus musculus protein phosphatase 1, regulatory subunit 10 (Ppp1r10), mRNA [NM_175934]	NM_175934	-1.04508
mosg protein	NM_205822	-1.03532
hypothetical protein, MGC:7036	NM_030259	-1.20166
RIKEN cDNA 5033405K12 gene	AK129365	-1.25723
phospholipid scramblase 2	NM_008880	-1.37071
Mus musculus RIKEN cDNA 1110055N21 gene (1110055N21Rik), mRNA [NM_176843]	NM_176843	-1.06479
Tribbles homolog 1 (Drosophila)	AK041212	1.07625
Cysteine and glycine-rich protein 1	D88793	-1.13285
Mus musculus similar to olfactory receptor GA_x6K02T2NLDC-33902472-33902472	XM_159713	1.00785

RIKEN cDNA 2310003G12 gene	NM_023631	-1.00794
Mus musculus solute carrier family 26 (sulfate transporter), member 1 (Slc26a1)	NM_174870	-1.09564
602096992F1 NCI_CGAP_Co24 Mus musculus cDNA clone IMAGE:4216774 5	BF583970	1.07884
titin-cap	NM_011540	1.40813
chaperonin subunit 8 (theta)	NM_009840	-1.2987
Unknown		-1.3452
Mus musculus cDNA sequence AB041803 (AB041803), mRNA [NM_144555]	NM_144555	1
RIKEN cDNA 3632451O06 gene	NM_026142	-1.03565
Mus musculus MAS-related GPR, member B3 (Mrgprb3), mRNA [NM_207537]	NM_207537	-1.02185
Unknown		-1.05458
Mus musculus olfactory receptor 549 (Olfr549), mRNA [NM_147101]	NM_147101	1.23693
RIKEN cDNA 9230104L09 gene	AK020314	-1.35758
natural killer cell group 7 sequence	NM_024253	1.00089
Unknown		1.03596
Mus musculus vomeronasal 1 receptor, H14 (V1rh14), mRNA [NM_134239]	NM_134239	1
Unknown		1.07075
Mus musculus zinc finger protein ZFP113 mRNA, complete cds.	AF167320	1.08074
Unknown		1
Unknown		1.09155
CDNA sequence BC032281	BC012717	1.01068
nucleobindin	NM_008749	-1.03351
hypothetical protein 4933423E17	NM_177706	1.01621
purinergic receptor P2X, ligand-gated ion channel 4	NM_011026	1.04473
Unknown		-1.01529
Mus musculus RIKEN cDNA C630015F21 gene (C630015F21Rik), mRNA [NM_175650]	NM_175650	1.09502
RIKEN cDNA 1700069L16 gene	AK007096	1.09038
OLFACTORY RECEPTOR GA_X6K02T2Q125-51109312-51108356. [Source:SPTREMBL;Acc		1.21578
Unknown		-1.21049
Mus musculus homeo box A4 (Hoxa4), mRNA [NM_008265]	NM_008265	-1.04059
Mus musculus RIKEN cDNA 2610306H15 gene (2610306H15Rik), mRNA [NM_028263]	NM_028263	1.02833
mast cell protease 8	NM_008572	-1.0687
Carboxypeptidase A1	BC052661	1.11149
fibroblast growth factor receptor 2	NM_010207	-1.30059
Vimentin	X56397	-1.41077
Unknown		1.18486
parathyroid hormone receptor	NM_011199	1.05627
Otospiralin	AK083090	1.03327
Mus musculus olfactory receptor 750 (Olfr750), mRNA [NM_207558]	NM_207558	1.04334
Solute carrier family 4, sodium bicarbonate cotransporter, member 7	AK088400	-1.03579
Tumor protein, translationally-controlled 1	NM_009429	-1.27005
ATP-binding cassette, sub-family A (ABC1), member 3	BC042663	-1.07567
RIKEN cDNA 2410066E13 gene	BC042507	1.3348
Mus musculus splicing factor 3b, subunit 2 (Sf3b2), mRNA [NM_030109]	NM_030109	1.10267
RIKEN cDNA 2810036K01 gene	NM_026040	1.04524
B-cell translocation gene 2, anti-proliferative	NM_007570	-1.22607
calumenin	NM_007594	1.1471
thioredoxin	NM_011660	-1.19253
Mus musculus zinc finger, CCHC domain containing 6 (Zcchc6), mRNA [NM_15153538]	NM_15153538	1.18459
Cytidine deaminase	BC050114	-1.03715
Cdx-2=tissue-specific homeodomain transcription factor/caudal homolog [mice,	S74520	1.26417
Unknown		1.06798
prostaglandin D2 synthase 2, hematopoietic	NM_019455	1.08568

D6 beta-chemokine receptor	NM_021609	1.01975
Signal recognition particle 72	AK017869	-1.05925
keratin complex 2, basic, gene 1	NM_008473	1.02082
RIKEN cDNA 2010110M21 gene	NM_025933	-1.00687
RIKEN cDNA 4432404A22 gene	NM_026539	-1.20208
Procollagen, type III, alpha 1	BG075843	-1.02905
Unknown		-1.43944
aplysia ras-related homolog A2	NM_016802	-1.69896
Mus musculus Bardet-Biedl syndrome 7 (Bbs7), mRNA [NM_027810]	NM_027810	-1.14616
RIKEN cDNA 1110037P11 gene	AK004148	1.0481
A48015 S-100 protein beta chain - mouse, complete [TC995224]		-1.08014
calcium binding protein P22	NM_019769	-1.57406
Mus musculus PRP19/PSO4 homolog (S. cerevisiae) (Prp19), mRNA [NM_134129]	NM_134129	-1.03359
Ubiquitin specific protease 48	BC021769	-1.02215
FXYD domain-containing ion transport regulator 7	NM_022007	-1.00909
protein tyrosine phosphatase, non-receptor type 14	NM_008976	-1.01139
BC035804 zinc finger protein 46 (KUP) {Homo sapiens}, partial (94%) [TC1051519]		1
Mus musculus THO complex 1 (Thoc1), mRNA [NM_153552]	NM_153552	1.00874
G0/G1 switch gene 2	NM_008059	-1.09354
suppressor of white apricot homolog 2-pending	NM_016680	1.18168
Mus musculus RIKEN cDNA 9130404D14 gene (9130404D14Rik), mRNA [NM_146119]	NM_146119	-1.03987
Unknown		1.03833
Activity-dependent neuroprotective protein	AF068198	-1.06332
tripartite motif protein 12	NM_023835	1.12056
nuclear factor, erythroid derived 2, like 3	NM_010903	-1.3013
RIKEN cDNA 1810058I24 gene	AK082166	1.00718
Mus musculus protocadherin 20 (Pcdh20), mRNA [NM_178685]	NM_178685	-1.02686
OLFACTORY RECEPTOR GA_X6K02T2PBj9-42354580-42353624. [Source:SPTREMBL;Acc		1.02132
lymphocyte-activation gene 3	NM_008479	1.03926
RIKEN cDNA 4733401F03 gene	NM_024177	-1.10769
RIKEN cDNA 4933424M23 gene	AK049359	1.06259
RIKEN cDNA E130306D19 gene	AK087493	1.01568
hypothetical protein 4832420M10	NM_177757	-1.10015
Mus musculus 10 day old male pancreas cDNA, RIKEN full-length enriched libr	AK007939	1.2088
Fibroblast growth factor 10	D89080	-1.02286
Mus musculus expressed sequence AW456874 (AW456874), mRNA [NM_207232]	NM_207232	-1.0124
cardiac morphogenesis	NM_011724	1.16368
tumor-suppressing subchromosomal transferable fragment 4	NM_020285	-1.03834
Gene model 959, (NCBI)	AK087383	1.06306
origin recognition complex, subunit 1 homolog (S. cerevisiae)	NM_011015	-1.15423
Mus musculus aarF domain containing kinase 2 (Adck2), mRNA [NM_178873]	NM_178873	1.10179
RIKEN cDNA 1810054G18 gene	BC013546	-1.00334
Mus musculus ATP-binding cassette, sub-family A (ABC1), member 15 (Abca15)	NM_177213	1.06383
Mus musculus RIKEN cDNA 1700003E24 gene (1700003E24Rik), mRNA [NM_183280]	NM_183280	1.02342
OLFACTORY RECEPTOR GA_X6K02T2PVTD-32368166-32367237. [Source:SPTREMBL;Acc		1.00526
Mus musculus expressed sequence AW260253 (AW260253), mRNA [NM_172930]	NM_172930	-1.43223
UI-M-AI0-aam-h-10-0-UI.s1 NIH_BMAP_MBS Mus musculus cDNA clone UI-M- AI835556		1.06601
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK005803		-1.04251
Mus musculus Machado-Joseph disease (spinocerebellar ataxia 3, olivopontoce	NM_029705	-1.44579
high mobility group nucleosomal binding domain 1	NM_008251	-1.34501
unc119 homolog (C. elegans)	NM_011676	1.0975
calsenilin, presenilin-binding protein, EF hand transcription factor	NM_019789	1.10697

Mus musculus ATPase, H ⁺ transporting, V0 subunit D, isoform 2 (Atp6v0d2), m	NM_175406	-1.22313
Mus musculus olfactory receptor 706 (Olf706), mRNA [NM_146353]	NM_146353	1.10207
poliovirus receptor-related 1	NM_021424	1.2351
RIKEN cDNA B230208L21 gene	AK045524	-1.08039
mesoderm posterior 2	NM_008589	1.23012
metal response element binding transcription factor 1	NM_008636	-1.08634
Mus musculus thyroid hormone receptor associated protein 3 (Thrap3), mRNA [	NM_146153	-1.01877
Endothelin 2	NM_007902	-1.02874
Mus musculus casein kinase 1, delta (Csnk1d), transcript variant 2, mRNA [NM_	NM_027874	1.2186
OLFACTORY RECEPTOR GA_X6K02T2NHDJ-9504525-9505532. [Source:SPTREMBL;Acc:C		1.03262
Mus musculus RIKEN cDNA D530031C13 gene (D530031C13Rik), mRNA [NM_	NM_177269	-1.05194
G protein-coupled receptor 73	NM_021381	-1.00148
MAD homolog 2 (Drosophila)	BC030003	1.01271
Mus musculus RIKEN cDNA 2610510H01 gene (2610510H01Rik), mRNA [NM_	NM_173867	1.97671
Mus musculus solute carrier family 6 (neurotransmitter transporter, L-proline), m	NM_201353	-1.16841
RIKEN cDNA 4930566A11 gene	BC023180	-1.20613
Phosphoserine aminotransferase 1	BC004827	-1.14018
Protein phosphatase 1, regulatory (inhibitor) subunit 3G	AK005570	1.13264
TRANSFORMING PROTEIN P21B (K-RAS 2B) (KI-RAS) (C-K-RAS). [Source:SWISSPROT;Ac		1.03612
Zinc finger, FYVE domain containing 28	AK036334	1.09738
Mus musculus RIKEN cDNA 9030625A04 gene (9030625A04Rik), mRNA [NM_	NM_172488	-1.05204
RIKEN cDNA 4933405L10 gene	AK016673	1.01865
decidual/trophoblast prolactin-related protein	NM_010088	1.09002
Procollagen, type VI, alpha 3	Z18279	1.07001
RIKEN cDNA 1110063F24 gene	BC021480	-1.47667
RIKEN cDNA 1700021F07 gene	AK006200	1.12938
Unknown		-1.02506
Mus musculus RAB30, member RAS oncogene family (Rsb30), mRNA [NM_02	NM_029494	1.00759
Paired related homeobox 1	AK038736	1.13252
cathepsin H	NM_007801	-1.30982
zinc finger protein X-linked	NM_011768	-1.09543
Mus musculus RIKEN cDNA 4931427F14 gene (4931427F14Rik), mRNA [NM_	NM_028892	1.02341
Mus musculus defensin beta 11 (Defb11), mRNA [NM_139221]	NM_139221	1.09596
Mus musculus cAMP responsive element binding protein 3 (Creb3), mRNA [NM	NM_013497	1.03192
Mus musculus solute carrier family 38, member 4 (Slc38a4), mRNA [NM_02705	NM_027052	1.03331
major intrinsic protein of eye lens fiber	NM_008600	1.10489
Unknown		1
cyclic nucleotide gated channel 4	NM_007724	1.11504
RIKEN cDNA C330023D02 gene	AK129348	1.1327
potassium voltage gated channel, shaker related, subfamily, member 6	NM_013568	-1.01153
RIKEN cDNA D930015E06 gene	AK086232	1.17293
Mus musculus RIKEN cDNA 9030624J02 gene (9030624J02Rik), mRNA [NM_	NM_027815	1.02439
hypothetical serine/threonine protein kinase	NM_021302	-1.11853
Unknown		-1.00599
Mus musculus DNA cross-link repair 1C, PSO2 homolog (S. cerevisiae) (Dclre1	NM_146114	1.11645
OLFACTORY RECEPTOR GA_X6K02T2QD9B-18619941-18620882. [Source:SPTREMBL;Ac		-1.3084
Mus musculus olfactory receptor 1286 (Olf1286), mRNA [NM_207254]	NM_207254	1.08822
BTB and CNC homology 1	NM_007520	1.05245
Mus musculus Sloan-Kettering viral oncogene homolog (Ski), mRNA [NM_0113	NM_011385	-1.00023
Unknown		1.03012
Tektin 3	AY252101	-1.18419
Mus musculus RIKEN cDNA 4632411B12 gene (4632411B12Rik), mRNA [NM_	NM_172652	-1.11466

Mus musculus cDNA sequence BC005685, mRNA (cDNA clone IMAGE:315499)	BC005685	1.30441
Mus musculus cDNA sequence BC019731 (BC019731), mRNA [NM_144914]	NM_144914	1.13825
Mus musculus RIKEN cDNA 2610014M12 gene (2610014M12Rik), mRNA [NM_183145]	NM_183145	1.04986
RIKEN cDNA 2610528C18 gene	NM_023537	1.08389
Thyroid hormone receptor associated protein 2	BC028781	1.10888
Leucine-rich repeat kinase 1	AK076432	-1.38272
Purine rich element binding protein A	AK018157	-1.01703
Unknown		-1.22034
Mus musculus phosphatidylinositol-3-phosphatase associated protein (Pip3ap), brain link protein 1	NM_172958	-1.06433
defensin related cryptdin, related sequence 2	NM_022031	-1.0125
ms37c11.x1 Stratagene mouse heart (#937316) Mus musculus cDNA clone IMAGE:326223	NM_007847	-1.01249
Mus musculus ATPase, Na ⁺ /K ⁺ transporting, alpha 3 polypeptide (Atp1a3), mRNA [NM_144921]	AI326223	1.08111
Mus musculus MIC2 (monoclonal Imperial Cancer Research Fund 2)-like 1 (Mice)	NM_144921	1.1746
Amyloid beta (A4) precursor protein-binding, family A, member 2	NM_138309	-1.00074
chemokine (C-C) receptor 1	L34676	1.09011
RIKEN cDNA 5730416F02 gene	NM_009912	-1.01436
ninjurin 1	AK017567	1.08523
Mus musculus RIKEN cDNA 2010321M09 gene (2010321M09Rik), mRNA [NM_175153]	NM_013610	1.18218
Mus musculus vesicle amine transport protein 1 homolog (T californica) (Vat1), mRNA [NM_012037]	NM_175153	1.00702
Mus musculus olfactory receptor 1201 (Olfr1201), mRNA [NM_146895]	NM_012037	1.06798
Mus musculus NeuroD5 mRNA, partial cds.	NM_146895	-1.01055
Mus musculus eyes absent 2 homolog (Drosophila) (Eya2), mRNA [NM_010165]	U76210	1.05842
Mus musculus RD RNA-binding protein (Rdbp), mRNA [NM_138580]	NM_010165	1.05364
v-maf musculoaponeurotic fibrosarcoma oncogene family, protein F (avian)	NM_138580	-1.14533
Rac GTPase-activating protein 1	NM_010755	1.03824
RIKEN cDNA 2810459M11 gene	NM_012025	-1.04505
DnaJ (Hsp40) homolog, subfamily B, member 7	AK013367	-1.09117
Unknown	NM_021317	1.08822
AV001820 Mus musculus C57BL/6J kidney Mus musculus cDNA clone 0610014		1.08492
Mus musculus expressed sequence AW556347 (AW556347), mRNA [NM_183186]	AV001820	1.07791
transducin (beta)-like 2	NM_183186	-1.22908
Mus musculus kelch-like 6 (Drosophila) (Klhl6), mRNA [NM_183390]	NM_013763	1.12218
Mus musculus glypican 5 (Gpc5), mRNA [NM_175500]	NM_183390	-1.12587
RIKEN cDNA 0610040H15 gene	NM_175500	1.05413
Unknown	NM_026305	-1.08458
Mus musculus hypothetical protein MGC32391 (MGC32391), mRNA [NM_146184]		-1.08996
OLFACTORY RECEPTOR GA_X6K02T2PBJ9-5560696-5559746. [Source:SPTREMBL;Acc:Q	NM_146184	1.02432
Transmembrane protein 24	AK004920	-1.11851
proteasome (prosome, macropain) subunit, beta type 1	NM_011185	-1.23567
Interferon induced transmembrane protein 5	AK003363	1.06909
Dapper homolog 2, antagonist of beta-catenin (xenopus)	AK041604	1.15798
hypothetical protein MGC30332	NM_145580	1.17036
actin-like 6	NM_031404	-1.02994
ring finger protein 25	NM_021313	-2.51855
Mus musculus olfactory receptor 1104 (Olfr1104), mRNA [NM_146767]	NM_146767	1.05293
Mus musculus exosome component 4 (Exosc4), mRNA [NM_175399]	NM_175399	1.01582
Zinc finger protein 275	NM_031494	-1.0407
collapsin response mediator protein 1	NM_007765	1.01169
Ectonucleoside triphosphate diphosphohydrolase 6	AK012292	1.0395
Unknown		1.06884
Mus musculus RIKEN cDNA 8430423A01 gene (8430423A01Rik), mRNA [NM_175294]		-1.19145

Mus musculus similar to KRAB zinc finger protein KR18 (LOC240676), mRNA [XM_140768		-1.34811
Mus musculus cDNA sequence BC046386 (BC046386), mRNA [NM_181422]	NM_181422	1.01003
Mus musculus transmembrane channel-like gene family 7 (Tmc7), mRNA [NM_172476	NM_172476	1.06638
Transcribed locus	CB174456	-1.00779
RIKEN cDNA 5830413L19 gene	NM_029499	-1.23732
NudC domain containing 1	NM_026149	-1.54978
Methyltransferase like 2	NM_172567	1.05509
Mus musculus dopa decarboxylase (Ddc), mRNA [NM_016672]	NM_016672	-1.2926
AF251290 glutamic acid-rich protein {Plasmodium falciparum}, partial (5%) [TC956884]		-2.61045
Mus musculus nucleoporin 107 (Nup107), mRNA [NM_134010]	NM_134010	1.02806
Mus musculus carboxylesterase 2 (Ces2), mRNA [NM_145603]	NM_145603	1.14357
Mus musculus protocadherin beta 13 (Pcdhb13), mRNA [NM_053138]	NM_053138	1.05648
Mus musculus kallikrein 7 (chymotryptic, stratum corneum) (Klk7), mRNA [NM_011872]	NM_011872	1.01652
Mus musculus peptidase (mitochondrial processing) alpha (Pmpca), mRNA [NM_173180]	NM_173180	1.0873
Mus musculus NIH3T3 type I receptor BRK-1T mRNA, complete cds.	U04673	-1.00673
UI-M-AQ0-aah-g-04-0-UI.s2 NIH_BMAP_MHI Mus musculus cDNA clone UI-M-	AI835986	-1.04048
putative phosphatase	NM_008916	-1.07485
complexin 1	NM_007756	1.08307
Mus musculus RNA binding motif protein 9 (Rbm9), mRNA [NM_053104]	NM_053104	1.10768
apolipoprotein M	NM_018816	1.08192
Unknown		-1.17168
TCTP_MOUSE Translationally controlled tumor protein (TCTP) (p23) (21 kDa polypeptide) (p2		1.18697
Unknown		1.57615
Nudix (nucleoside diphosphate linked moiety X)-type motif 15	AK043196	1.05398
RIKEN cDNA 4933404O12 gene	AK085506	1.03751
CDNA sequence BC034090	AK129406	1.02811
603347882F1 NCI_CGAP_Mam2 Mus musculus cDNA clone IMAGE:5375204	BI694651	1.10414
Transmembrane protein 23	BC076618	-1.35813
Centaurin, gamma 2	AK035494	-1.24608
RIKEN cDNA 9130017L10 gene	NM_023608	1.01561
Syntaxin 11	AK017897	-1.38444
Seizure related 6 homolog (mouse)-like	AK122401	1.05807
Mus musculus odorant binding protein 1a (Obp1a), mRNA [NM_008754]	NM_008754	1.01926
Zinc finger and BTB domain containing 11	AK033794	1.04862
Mus musculus RIKEN cDNA 4631416I11 gene (4631416I11Rik), mRNA [XM_110575	XM_110575	1.01962
stromal antigen 1	NM_009282	1
Mus musculus RIKEN cDNA 4930504E06 gene (4930504E06Rik), mRNA [NM_133858	NM_133858	1.04217
Mus musculus adult male adrenal gland cDNA, RIKEN full-length enriched library	AK078638	1.04231
RIKEN cDNA 4921524J17 gene	AK006764	1.18182
Mus musculus protein geranylgeranyltransferase type I, beta subunit (Pggt1b), r	NM_172627	-1.02888
high mobility group box 1	NM_010439	-1.43676
Unknown		-1.00585
RIKEN cDNA 1810060K07 gene	NM_024214	-1.40958
adrenergic receptor, alpha 2b	NM_009633	1.26768
Mus musculus olfactory receptor 320 (Olfr320), mRNA [NM_207230]	NM_207230	1.06315
RIKEN cDNA 1700017N19 gene	AK006074	1.07167
RIKEN cDNA 4930524L23 gene	AK080141	1.01034
Poly(rC) binding protein 1	NM_011865	-1.22133
RIKEN cDNA 1700021K10 gene	AK006215	-1.11739
DNA segment, Chr 8, ERATO Doi 325, expressed	AK045397	-1.20576
GTP binding protein 2	NM_019581	1.04033
Ring finger and WD repeat domain 2	NM_011931	-1.47952

Mus musculus RIKEN cDNA 2210403B10 gene (2210403B10Rik), mRNA [NM_	NM_145216	1.04054
Mus musculus RIKEN cDNA 2410051C13 gene (2410051C13Rik), mRNA [NM_	NM_145401	-1.18528
Mus musculus syntrophin, gamma 1 (Sntg1), mRNA [NM_027671]	NM_027671	1.01547
Expressed sequence AU045128	BG071987	1.02511
Mus musculus cDNA sequence BC024955 (BC024955), mRNA [NM_201352]	NM_201352	1.05054
Mus musculus olfactory receptor 593 (Olfr593), mRNA [NM_146380]	NM_146380	1.07985
Unknown		1
DNA segment, KIST 4	U80891	1
RIKEN cDNA 2310047A01 gene	BC034735	1.13234
Unknown		-1.00678
ribosomal protein S3a	NM_016959	-1.54357
glutathione peroxidase 1	NM_008160	1.05193
Mus musculus olfactory receptor 1047 (Olfr1047), mRNA [NM_147012]	NM_147012	1.01403
Amino adipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase	AK081818	-1.06467
RIKEN cDNA 9330140K16 gene	AK122448	1.06843
Mus musculus RIKEN cDNA 2010311D03 gene (2010311D03Rik), mRNA [NM_	NM_133839	-1.50392
H3051H10-5 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H305	BG080291	-1.00955
Mus musculus DNA segment, Chr 13, Wayne State University 64, expressed (D	NM_172585	1.17716
Mouse U5 small nuclear RNA, clone 7.	M29244	-1.00831
Transcription elongation factor A (SII)-like 3	AK017585	-1.13814
Mus musculus expressed sequence AU022726 (AU022726), mRNA [NM_17248	NM_172481	-1.04879
immunoglobulin (CD79A) binding protein 1b	NM_015777	-1.02336
RIKEN cDNA 1110014N23 gene	AK003717	1.05737
Unknown		-1.018
Protein phosphatase 1, regulatory (inhibitor) subunit 16A	AK013817	1.07788
nascent polypeptide-associated complex alpha polypeptide	NM_013608	-1.50237
short coiled coil protein	NM_019708	-1.78521
Mus musculus eukaryotic translation initiation factor 4A1 (Eif4a1), mRNA [NM_	NM_144958	1.03587
Solute carrier family 7 (cationic amino acid transporter, y+ system), member 6	NM_178798	-1.05074
Adult female vagina cDNA, RIKEN full-length enriched library, clone:9930010A1	AK081323	1
Mus musculus serine (or cysteine) proteinase inhibitor, clade B, member 1c (Se	NM_173051	-1.32805
NHP2 non-histone chromosome protein 2-like 1 (S. cerevisiae)	BC026755	1.42431
Mus musculus transcription elongation factor B polypeptide 3 binding protein 1 (	NM_178383	1.13301
Serine protease inhibitor, Kunitz type 1	AF099018	-1.01269
Mus musculus RIKEN cDNA 4732482E20 gene (4732482E20Rik), mRNA [NM_	NM_172883	-1.08651
potassium inwardly-rectifying channel, subfamily J, member 10	NM_020269	1.0145
Mus musculus cAMP responsive element binding protein 1 (Creb1), mRNA [NM_	NM_009952	-1.03311
WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2	AK011977	-1.15358
Unknown		-1.00828
Mus musculus clone MBII-98 C/D box snoRNA, partial sequence.	AF357363	1.04274
RIKEN cDNA 4921524L21 gene	AK014961	1.10415
Mus musculus olfactory receptor 1252 (Olfr1252), mRNA [NM_207568]	NM_207568	1.17131
Mus musculus elastin microfibril interfacier 1 (Emilin1), mRNA [NM_133918]	NM_133918	1.04638
Mus musculus olfactory receptor 745 (Olfr745), mRNA [NM_146299]	NM_146299	-1.12994
RIKEN cDNA 4933425F06 gene	AK016678	-1.04093
Mus musculus DNA segment, Chr 5, Brigham & Women's Genetics 0860 expres	NM_027530	1.09936
Expressed sequence AV028368	AK078532	1.05694
RIKEN cDNA 2310005P05 gene	NM_026189	-1.15321
Mus musculus RIKEN cDNA B630019K06 gene (B630019K06Rik), mRNA [NM_	NM_175327	-1.05702
interferon (alpha and beta) receptor 2	NM_010509	-1.01387
BC010277 C530032E20 protein {Mus musculus}, partial (87%) [TC1023981]		-1.02108
serine (or cysteine) proteinase inhibitor, clade I (neuroserpin), member 1	NM_009250	-1.0821

Unknown		1.05052
Mus musculus RIKEN cDNA A930009H15 gene (A930009H15Rik), mRNA [NM_	NM_206973	1.09305
Mus musculus amiloride binding protein 1 (amine oxidase, copper-containing) (NM_029638		-1.00912
purinergic receptor P2X, ligand-gated ion channel, 5	NM_033321	1.14687
RIKEN cDNA 4930544O15 gene	AK016041	1.01356
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:AK015033		1.00934
Mus musculus potassium voltage-gated channel, shaker-related subfamily, mem	NM_145983	-1.01676
Unknown		1.00548
Mus musculus transmembrane protein with EGF-like and two follistatin-like dom	NM_021436	-1.12368
Mus musculus, clone IMAGE:4948493, mRNA.	BC026728	-1.15993
RIKEN cDNA A630047E20 gene	AK007218	1.07923
RIKEN cDNA 2010004P11 gene	NM_026434	1.04151
myosin VIIa	NM_008663	1.04471
Mus musculus RIKEN cDNA A230042K10 gene (A230042K10Rik), mRNA [NM_	NM_177622	-1.07001
RIKEN cDNA 4631427C17 gene	NM_021414	-1.01964
OLFACTORY RECEPTOR GA_X6K02T2NHDJ-9721756-9722757. [Source:SPTREMBL;Acc:C		-1.00043
RIKEN cDNA 1520401A03 gene	AK028064	1.15534
Unknown		1.04616
silica-induced gene 81	NM_009187	-1.26041
K0534H06-3 NIA Mouse Hematopoietic Stem Cell (Lin-/c-Kit+/Sca-1+) cDNA Lit	BM239464	-1.0044
CDNA sequence BC021442	NM_145484	-1.13136
Sterile alpha motif domain containing 4	AK034323	1.03162
Unknown		1.14048
AGENCOURT_10184558 NIH_MGC_143 Mus musculus cDNA clone IMAGE:6:BU529378		1.18969
Mus musculus glutamate receptor, ionotropic, kainate 4 (Grik4), mRNA [NM_17:	NM_175481	-1.01583
Mus musculus mannosidase, alpha, class 2C, member 1 (Man2c1), mRNA [NM_	NM_028636	1.0719
nuclear factor I/X	NM_010906	1.30834
Mus musculus RIKEN cDNA E130012P22 gene (E130012P22Rik), mRNA [NM_	NM_175484	1.46589
wingless-related MMTV integration site 7A	NM_009527	-1.00195
Unknown		1.06569
Mus musculus homogentisate 1, 2-dioxygenase (Hgd), mRNA [NM_013547]	NM_013547	-1.12502
Abhydrolase domain containing 7	NM_00100180	-1.10552
RIKEN cDNA 2310015J09 gene	NM_027983	1.15052
Mus musculus RAB13, member RAS oncogene family (Rab13), mRNA [NM_02:	NM_026677	-1.20711
BC003854 ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit c (subunit 9), iso		-1.05215
Kruppel-like factor 12	NM_010636	1.21813
Mus musculus suppressor of var1, 3-like 1 (S. cerevisiae) (Supv3l1), mRNA [NM_	NM_181423	1.02055
Unknown		1.06171
Mus musculus BCL2/adenovirus E1B 19kDa-interacting protein 1, NIP1 (Bnip1),	NM_172149	1.02935
farnesyl diphosphate farnesyl transferase 1	NM_010191	-1.28239
Mus musculus dopamine receptor D1A (Drd1a), mRNA [NM_010076]	NM_010076	1.16667
recombinant antineuraminidase single chain Ig VH and VL domains	NM_019633	-1.10229
Mus musculus formin-like 3 (Fmnl3), mRNA [NM_011711]	NM_011711	-1.08309
recombination activating gene 1 gene activation	NM_009057	-1.29448
hairy and enhancer of split 5, (Drosophila)	NM_010419	1.03854
RIKEN cDNA 8430423A01 gene	AK037833	1.02555
Unknown		-1.00226
4A11 antigen=putative sucrose-specific phosphotransferase enzyme II homolog	S74697	1
gamma-glutamyl transpeptidase	NM_008116	-1.04587
splicing factor 3b, subunit 1, 155 kDa	NM_031179	-1.03179
Mus musculus cDNA sequence BC016423 (BC016423), mRNA [NM_134063]	NM_134063	-1.50294
Mus musculus transmembrane inner ear (Tmie), mRNA [NM_146260]	NM_146260	1.08474

Mus musculus integrin beta 4 binding protein (Itgb4bp), mRNA [NM_010579]	NM_010579	1.03264
Mus musculus RIKEN cDNA 1810042K04 gene (1810042K04Rik), mRNA [NM_025604]	NM_025604	-1.09047
RIKEN cDNA 9030625G08 gene	NM_025780	-1.09262
RIKEN cDNA D630023B12 gene	AK122512	-1.04176
transcription termination factor 1	NM_009442	-1.23417
ATP-binding cassette, sub-family C (CFTR/MRP), member 8	AK083916	1.00607
RETINOIC ACID INDUCED 3. [Source:RefSeq;Acc:NM_181444] [ENSMUST00000050104]		-1.10597
nuclear respiratory factor 1	NM_010938	-1.03167
Mus musculus ribosomal protein S21 (Rps21), mRNA [NM_025587]	NM_025587	-1.07775
T cell activation, increased late expression	NM_032465	1.03916
laminin, beta 2	NM_008483	-1.00401
Mus musculus schlafen 4 (Slfn4), mRNA [NM_011410]	NM_011410	-1.1067
Mus musculus olfactory receptor 668 (Olfr668), mRNA [NM_147059]	NM_147059	1.10575
Mus musculus RIKEN cDNA 4931406P16 gene (4931406P16Rik), mRNA [NM_172741]	NM_172741	-1.44029
Mus musculus calcium-binding tyrosine-(Y)-phosphorylation regulated (fibroblast) vitamin D receptor	NM_027687	1.26324
PTPD_HUMAN Protein-tyrosine phosphatase delta precursor(R-PTP- delta). [Human] (Homo sapiens)	NM_009504	1.06311
Mus musculus RIKEN cDNA 4933401N24 gene (4933401N24Rik), mRNA [NM_175367]	NM_175367	-1.03376
Mus musculus cDNA sequence BC016495 (BC016495), mRNA [NM_145497]	NM_145497	-1.25893
Unknown		1.05825
diacylglycerol kinase, alpha (80 kDa)	NM_016811	1.07067
Mus musculus olfactory receptor 141 (Olfr141), mRNA [NM_181818]	NM_181818	1.05287
OLFACTORY RECEPTOR GA_X6K02T2NHDJ-9838699-9839697. [Source:SPTREMBL;Acc:G		-1.06636
ubiquitin-conjugating enzyme 8	NM_019949	-1.16813
rcd1 (required for cell differentiation) homolog 1 (S. pombe)	NM_021383	1.07315
chromobox homolog 5 (Drosophila HP1a)	NM_007626	1.10981
Unknown		-1.1985
RIKEN cDNA 2300002O18 gene	AK009014	-1.2246
Unknown		-1.03235
arkadia	NM_033604	-1.1364
monoglyceride lipase	NM_011844	1.02932
period homolog (Drosophila)	NM_011065	1.27794
antigen identified by monoclonal antibody MRC OX-2	NM_010818	-1.06939
RAB11a, member RAS oncogene family	NM_017382	-1.19244
RIKEN cDNA 4833412N02 gene	NM_029020	-1.13347
Mus musculus RIKEN cDNA 1810007P19 gene (1810007P19Rik), mRNA [NM_172701]	NM_172701	-1.06291
Mus musculus dCMP deaminase (Dctd), mRNA [NM_178788]	NM_178788	-1.00319
Mus musculus Rho guanine nucleotide exchange factor (GEF) 10 (Arhgef10), mRNA [NM_172751]	NM_172751	-1.0902
Mus musculus PRP4 pre-mRNA processing factor 4 homolog B (yeast) (Prpf4b)	NM_013830	-1.23771
cell matrix adhesion regulator	NM_020612	1.08585
Mus musculus olfactory receptor 1426 (Olfr1426), mRNA [NM_146809]	NM_146809	1.06979
Zinc finger protein 264	AF365933	1.04685
follistatin-like 3	NM_031380	1.14737
Mus musculus olfactory receptor 1378 (Olfr1378), mRNA [NM_146910]	NM_146910	1.0161
Mus musculus RUN and TBC1 domain containing 2 (Rutbc2), mRNA [NM_172718]	NM_172718	1.09361
Mus musculus olfactory receptor 1115 (Olfr1115), mRNA [NM_146297]	NM_146297	1.05741
Mus musculus solute carrier family 12, member 5 (Slc12a5), mRNA [NM_020333]	NM_020333	1.13903
calcium binding protein, 140 kDa	NM_021395	1.02714
Mus musculus G protein-coupled receptor 21 (Gpr21), mRNA [NM_177383]	NM_177383	1.06641
Mus musculus immunoglobulin superfamily, member 11 (Igsf11), mRNA [NM_170599]	NM_170599	1.0453
Unknown		1.09805
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK015669		1.05611

Cytochrome b-561	U16297	-1.00536
Mus musculus D4, zinc and double PHD fingers, family 3 (Dpf3), mRNA [NM_058212]	NM_058212	1.05141
Lines homolog 2 (Drosophila)	BC059228	-1.03157
Benzodiazepine receptor, peripheral	L17306	-1.04762
Ribosomal protein L23	AF357384	-1.03658
casein beta	NM_009972	1.04051
H4074D08-3 NIA Mouse 7.4K cDNA Clone Set Mus musculus cDNA clone H4074D08-3	BQ562153	1.07995
shroom	NM_015756	1.22099
Mus musculus kynurenine 3-monooxygenase (kynurenine 3-hydroxylase) (Kmo)	NM_133809	1.07219
RIKEN cDNA 4732416N19 gene	AK033816	1.07409
RAB33A, member of RAS oncogene family	NM_011228	1.08365
RIKEN cDNA 1110013J05 gene	NM_025392	1.0101
Unknown		1.01935
Mus musculus RIKEN cDNA A930034L06 gene (A930034L06Rik), mRNA [NM_175692]	NM_175692	-1.07096
Mus musculus protein phosphatase 1 (formerly 2C)-like (Ppm1l), mRNA [NM_178726]	NM_178726	-1.64449
Death inducer-oblierator 1	AK042474	1
RIKEN cDNA B230208H11 gene	AK045519	1.21152
regulator of G-protein signaling 18	NM_022881	-1.47239
Unknown		1.1504
Unknown		1.08059
UI-M-BH0-ajo-g-06-0-UI.s1 NIH_BMAP_M_S1 Mus musculus cDNA clone UI-M Al852435	AI852435	1
Mus musculus similar to cell division cycle 91-like 1 (LOC228812), mRNA [XM_130696]	XM_130696	-1.00157
Component of oligomeric golgi complex 7	AK030709	-1.59707
Unknown		1.02806
Mus musculus RIKEN cDNA 1110004B15 gene (1110004B15Rik), mRNA [NM_175206]	NM_175206	-1.22341
hypothetical protein E230025K15	NM_177809	-1.00011
Dehydrogenase/reductase (SDR family) member 10	AK002831	1.10189
zinc finger protein 93	NM_009567	1.02769
Mus musculus ring finger protein 121 (Rnf121), mRNA [NM_029211]	NM_029211	1.00013
Mus musculus similar to immunoglobulin heavy chain variable region (LOC3826)	XM_356608	1.34523
RIKEN cDNA G430022H21 gene	AK089949	-1.31764
similar to RIKEN cDNA 5330426L24	AK081116	-1.04807
Splicing factor, arginine/serine-rich 1 (ASF/SF2)	AK017754	-1.88456
Unknown		1.08615
Mus musculus solute carrier family 20, member 2 (Slc20a2), mRNA [NM_01139]	NM_01139	-1.12002
Mus musculus ladinin (Lad1), mRNA [NM_133664]	NM_133664	1.07539
RIKEN cDNA 1700010H22 gene	AK015350	1.07438
Kruppel-like factor 15	NM_023184	1.0542
charged amino acid rich leucine zipper 1	NM_023054	-1.16842
RIKEN cDNA 1700040F15 gene	AK076905	-1.04767
peptidyl arginine deiminase, type III	NM_011060	-1.65505
RIKEN cDNA 1810061M12 gene	AK129273	1.10472
gamma-aminobutyric acid (GABA-A) receptor, subunit alpha 3	NM_008067	1.09077
Eukaryotic translation initiation factor 4, gamma 1	BC027166	1.21196
Sperm associated antigen 11	NM_153115	1.23106
Mus musculus adult male stomach cDNA, RIKEN full-length enriched library, clone AK019053	AK019053	1.0505
Mus musculus olfactory receptor 242 (Olfr242), mRNA [NM_010974]	NM_010974	1.01874
deltex 3 homolog (Drosophila)	NM_030714	1.07772
RIKEN cDNA 2010309E21 gene	NM_025591	-1.25932
RIKEN cDNA 0610040E02 gene	NM_026154	1.0342
RIKEN cDNA 0610007N19 gene	AK002304	-1.12145
klotho	NM_013823	-1.09929

coagulation factor II (thrombin) receptor-like 3	NM_007975	-1.07458
interleukin 15	NM_008357	-1.39886
Mus musculus expressed sequence AI256456 (AI256456), mRNA [NM_028308; NM_028308]		1.01732
Unknown		1.246
Mus musculus muscleblind-like 2 (Mbnl2), transcript variant 1, mRNA [NM_175341; NM_175341]		-1.17565
Mus musculus expressed sequence AA959742 (AA959742), mRNA [NM_133807; NM_133807]		1.06215
AF480856 CDA08-like protein {Rattus norvegicus}, complete [TC1040424]		-1.16246
CDNA sequence BC025031	AK079264	1.02459
Mus musculus purinergic receptor P2Y, G-protein coupled 12 (P2ry12), mRNA [NM_027571; NM_027571]		-1.07237
Activating transcription factor 7	AK047901	1.02793
Nucleoporin 210-like	AK019752	1.18196
Glycerophosphodiester phosphodiesterase domain containing 1	NM_025638	-1.15331
Mus musculus thymidylate synthase (Tyms), mRNA [NM_021288; NM_021288]		-1.14903
OLFACTORY RECEPTOR MOR32-1. [Source:RefSeq;Acc:NM_147095] [ENSMUST00000065]		1.00279
t-complex-associated testis expressed 3	NM_011560	-1.44743
Neuregulin 1	AK031289	1.04365
Peptidylprolyl isomerase (cyclophilin) like 5	NM_027178	1.0373
Mus musculus similar to SEC14-like protein 3 (45 kDa secretory protein) (rsec4), mRNA [NM_175350; XM_354597]		1.09079
Mus musculus paraoxonase 2 (Pon2), mRNA [NM_183308; NM_183308]		-1.83234
Multiple substrate lipid kinase	NM_023538	-1.04803
Ubiquitin specific protease 42	AK014101	-1.10748
Histone deacetylase 10	BC013700	1.03408
kinesin family member 5A	NM_008447	-1.00995
Acyl-CoA synthetase long-chain family member 5	AK034942	1.19217
Mus musculus RIKEN cDNA 4933402B14 gene (4933402B14Rik), mRNA [NM_175350; NM_175350]		-1.04739
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK015008		-1.02283
Mus musculus olfactory receptor 178 (Olfr178), mRNA [NM_146997; NM_146997]		1.07672
Mus musculus RIKEN cDNA 2810443J12 gene (2810443J12Rik), mRNA [NM_026044; NM_026044]		1
RIKEN cDNA 4930579E17 gene	AK045940	1.10691
adenylate cyclase 6	NM_007405	-1.0449
Mus musculus RIKEN cDNA 8030451F13 gene (8030451F13Rik), mRNA [NM_175418; NM_175418]		1.02563
RIKEN cDNA 5830415F09 gene	AK017931	-1.03361
f-box only protein 3	NM_020593	-1.29638
Mus musculus RIKEN cDNA A430106J12 gene (A430106J12Rik), mRNA [NM_176841; NM_176841]		-1.04786
Mus musculus RIKEN cDNA 0610037H22 gene (0610037H22Rik), mRNA [NM_025332; NM_025332]		-1.00075
gamma-aminobutyric acid (GABA-A) receptor, theta	NM_020488	1.08668
matrix metalloproteinase 11	NM_008606	-1.05877
Angiopoietin 1	U83509	-1.04466
sperm associated antigen 1	NM_012031	1.01561
Mus musculus olfactory receptor 697 (Olfr697), mRNA [NM_146599; NM_146599]		1.0607
Mus musculus protein-kinase, interferon-inducible double stranded RNA dependent	NM_028410	-1.2577
small acidic protein	NM_019772	-1.44403
Mus musculus RIKEN cDNA 5830483C08 gene (5830483C08Rik), mRNA [NM_177331; NM_177331]		-1.05222
A kinase (PRKA) anchor protein 13	AK037815	1.13448
Mus musculus ATP-binding cassette, sub-family F (GCN20), member 1 (Abcf1),	NM_013854	-1.17166
RNA pseudouridylate synthase domain containing 1	NM_028009	1.14405
Cysteine-rich protein 1 (intestinal)	AK003075	-1.08885
cholinergic receptor, nicotinic, alpha polypeptide 7	NM_007390	1.0733
RIKEN cDNA 1700012F10 gene	AK005902	1.16359
Mus musculus RIKEN cDNA 6330509E05 gene (6330509E05Rik), mRNA [XM_149494; XM_149494]		-1.01004
galactosamine (N-acetyl)-6-sulfate sulfatase	NM_016722	-1.05067
Mus musculus SNAP-associated protein (Snapap), mRNA [NM_133854; NM_133854]		-1.20863

olfactory receptor 65	NM_013617	-1.39203
faciogenital dysplasia homolog 3	NM_015759	1.05612
VOMERONASAL RECEPTOR 1 B3. [Source:SPTREMBL;Acc:Q8VIC2] [ENSMUST000000604		1.02867
ring finger protein (C3HC4 type) 19	NM_013923	-1.16488
glyceraldehyde-3-phosphate dehydrogenase, spermatogenic	NM_008085	1.23334
Erythrocyte protein band 4.1-like 5	AK079301	-1.27438
Mitofusin 1	AK081358	-1.05084
selenoprotein K	NM_019979	-1.37036
Mus musculus Rho GTPase activating protein 1 (Arhgap1), mRNA [NM_146124	NM_146124	1.16155
Mus musculus DNA segment, Chr X, Immunex 39, expressed (DXImx39e), mRNA	NM_138602	-1.12502
CDNA sequence BC004012	BF535961	1.05668
solute carrier family 23, (nucleobase transporters), member 2	NM_011397	1.09688
Mus musculus myosin, heavy polypeptide 2, skeletal muscle, adult (Myh2), mRNA	NM_144961	1.27232
Aldolase 3, C isoform	AK039267	-1.00597
RIKEN cDNA 4932431P20 gene	AK016539	-1.1313
Mus musculus zinc finger, DHHC domain containing 4 (Zdhhc4), mRNA [NM_02	NM_028379	-1.0712
Mus musculus interleukin 17E (Il17e), mRNA [NM_080729]	NM_080729	-1.11385
RIKEN cDNA 0610007L03 gene	NM_025315	1.07057
RIKEN cDNA 5930418K15 gene	AK083137	1.04068
Mus musculus RIKEN cDNA 1300006C06 gene (1300006C06Rik), mRNA [NM_	NM_028792	-1.04408
ADAMTS-like 2	AK020831	1.20904
Mus musculus RIKEN cDNA 4933400K24 gene (4933400K24Rik), mRNA [NM_	NM_198623	1.03811
Mus musculus olfactory receptor 1206 (Olfr1206), mRNA [NM_001001810]	NM_00100181	1.17411
AP002899 P0456A01.17 {Oryza sativa (japonica cultivar-group)}, partial (6%) [TC	1052339]	1.37211
Mus musculus cDNA sequence BC017133 (BC017133), mRNA [NM_146169]	NM_146169	-1.31097
Mus musculus olfactory receptor 128 (Olfr128), mRNA [NM_206816]	NM_206816	1.14962
Mus musculus mRNA for Z39 snoRNA.	AJ240057	-2.06209
Unknown		1.12677
DNA segment, Chr 5, ERATO Doi 579, expressed	AK122224	-1.17341
RIKEN cDNA 4921517B04 gene	AK014905	1.01099
Mus musculus RIKEN cDNA B930090D16 gene (B930090D16Rik), mRNA [NM_	NM_177602	1.04912
Mus musculus phosphatidylinositol glycan, classC (Pigc), mRNA [NM_026078]	NM_026078	-1.00374
Mus musculus RIKEN cDNA A630007B06 gene (A630007B06Rik), mRNA [NM_	NM_170757	1.36938
Mus musculus membrane associated transporter protein (Matp), mRNA [NM_05	NM_053077	1.13793
Mus musculus adult male kidney cDNA, RIKEN full-length enriched library, clone	AK002875	1.10105
Mus musculus RIKEN cDNA 1110007A06 gene (1110007A06Rik), mRNA [NM_	NM_024288	-1.11642
nuclear receptor subfamily 2, group F, member 1	NM_010151	-1.08125
Mus musculus RIKEN cDNA 4930555G01 gene (4930555G01Rik), mRNA [NM_	NM_175393	-1.07347
CDNA sequence BC023754	AK043938	1.08826
RNA polymerase 1-3 (16 kDa subunit)	NM_009087	-1.37377
excision repair cross-complementing rodent repair deficiency, complementation	NM_007949	-1.38336
RIKEN cDNA 4930428F12 gene	AK015221	1.04065
RIKEN cDNA 1810037I17 gene	NM_024461	-1.19056
Unknown		-1.26384
RIKEN cDNA 1110021J02 gene	AK003900	-1.17601
kallikrein 6	NM_010639	-1.07151
unknown EST [8430408C20]		-1.30246
RIKEN cDNA D130004H04 gene	AK083761	1.14967
RIKEN cDNA 2600009M07 gene	NM_025928	1.066
ma71b12.x1 Soares mouse p3NMF19.5 Mus musculus cDNA clone IMAGE:316	AI413970	-1.24753
Synaptopodin	AK129267	1.05274
RIKEN cDNA 2510008H07 gene	NM_025586	-1.26291

Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK019696		1
Unknown		1.03735
RIKEN cDNA 1190005F20 gene	AK004493	1.06586
RIKEN cDNA 4633402N23 gene	BC014757	-1.26777
zinc finger like protein 1	NM_024231	1.06325
CDNA sequence BC003940	BC025536	-1.20212
ATPase, Ca ⁺⁺ transporting, cardiac muscle, fast twitch 1	NM_007504	1.06847
Mannose phosphate isomerase 1	BC051163	-1.12701
protein-L-isoaspartate (D-aspartate) O-methyltransferase 1	NM_008786	-1.36649
Mus musculus RIKEN cDNA B230208J24 gene (B230208J24Rik), mRNA [NM_	NM_145356	1.1176
angiopoietin-like 2	NM_011923	-1.01457
sperm tail associated protein	NM_019938	1.09112
Mus musculus relaxin 3 (Rln3), mRNA [NM_173184]	NM_173184	-1.05483
BING4 protein	NM_020603	-1.07974
chromodomain protein, Y chromosome-like	NM_009881	-1.03793
human immunodeficiency virus type I enhancer-binding protein 2	NM_010437	-1.5056
Mus musculus zinc finger protein 622 (Zfp622), mRNA [NM_144523]	NM_144523	-1.00587
Mus musculus dynein, axonemal, light intermediate polypeptide 1 (Dnali1), mRNA [NM_	NM_175223	1.03947
Mus musculus RIKEN cDNA 1200008O12 gene (1200008O12Rik), mRNA [NM_	NM_028760	-1.00959
Mus musculus 12 days embryo spinal ganglion cDNA, RIKEN full-length enriched	AK083989	-1.01896
RIKEN cDNA 3230401M21 gene	AK129465	-1.07672
601754760F1 NCI_CGAP_Mam1 Mus musculus cDNA clone IMAGE:3983678 ;BF101182		1.2826
WD repeat and FYVE domain containing 2	AK031001	1.04566
Mus musculus RIKEN cDNA 3300001M20 gene (3300001M20Rik), mRNA [NM_	NM_175113	-1.10695
OLFACTORY RECEPTOR GA_X6K02T2Q125-47470765-47471775. [Source:SPTREMBL;Acc		1.04967
RIKEN cDNA E130304I02 gene	AK021412	-1.11452
Mus musculus hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) NM_173371		1.16008
Mus musculus RIKEN cDNA 9230102D03 gene (9230102D03Rik), mRNA [NM_	NM_183124	1.04848
Jumonji domain containing 2A	AK054095	1.00905
Mus musculus kininogen 2 (Kng2), mRNA [NM_201375]	NM_201375	-1.18578
Mus musculus leukocyte tyrosine kinase (Ltk), transcript variant 4, mRNA [NM_	NM_203345	1.03785
Mus musculus serum/glucocorticoid regulated kinase 3 (Sgk3), mRNA [NM_133	NM_133220	1.02797
Mus musculus proteasome (prosome, macropain) 26S subunit, non-ATPase, 2 (NM_134101		1.03127
Mus musculus Fc receptor, IgA, IgM, high affinity (Fcamr), mRNA [NM_144960]	NM_144960	1.07764
Unknown		1.40418
insulin-like growth factor binding protein 4	NM_010517	1.06047
calcium channel, voltage dependent, alpha2/delta subunit 3	NM_009785	-1.06398
Mus musculus olfactory receptor 1195 (Olfr1195), mRNA [NM_146753]	NM_146753	1.12984
Mus musculus olfactory receptor 1338 (Olfr1338), mRNA [NM_207152]	NM_207152	-1.10641
N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1	NM_008306	1.14183
AF338472 Rho GTPase-activating protein {Mus musculus}, partial (61%) [TC1058988]		1.09318
SIMILAR TO BUTYROPHILIN-LIKE 7. [Source:SPTREMBL;Acc:Q811D8] [ENSMUST00000002		1.0251
RIKEN cDNA 2300004H16 gene	NM_025602	-1.02214
interferon alpha family, gene 5	NM_010505	1.06445
chaperonin subunit 3 (gamma)	NM_009836	1.01276
Mus musculus olfactory receptor 1333 (Olfr1333), mRNA [NM_207157]	NM_207157	1.04658
Mus musculus RIKEN cDNA 2410019P08 gene (2410019P08Rik), mRNA [XM_	XM_112612	-1.28533
Polymerase (DNA directed), beta	BC006681	-1.13831
RNA binding motif protein	NM_025875	-1.08417
Mus musculus NADPH oxidase organizer 1 (Noxo1), mRNA [NM_027988]	NM_027988	1.13287
tumor-associated calcium signal transducer 1	NM_008532	-1.35415
Mus musculus WD repeat domain 20 (Wdr20), mRNA [NM_027614]	NM_027614	1.06675

Cxc chemokine ligand 16	NM_023158	1.12004
RIKEN cDNA 4930441O14 gene	NM_026649	1
RIKEN cDNA 4921501E09 gene	AK077044	1.07402
Unknown		1.0385
T-cell receptor gamma, variable 7	M71214	1.06712
Unknown		1.01836
Mus musculus ret finger protein-like 4 (Rfpl4), mRNA [NM_138954]	NM_138954	1.00921
RIKEN cDNA 2700064H14 gene	NM_026021	-1.0105
Bcl2-interacting killer-like	NM_007546	-1.01533
Calmodulin binding transcription activator 1	AK032415	-1.21625
Mus musculus RIKEN cDNA 1700020B09 gene (1700020B09Rik), mRNA [NM_175240]	NM_175240	1.03521
Unknown		1.12872
cathepsin M	NM_022326	-1.03839
Mus musculus kallikrein 11 (Klk11), mRNA [NM_010640]	NM_010640	1.05413
Microtubule associated monooxygenase, calponin and LIM domain containing 3	NM_153396	1.02949
Mus musculus small nuclear ribonucleoprotein E (Snrpe), mRNA [NM_009227]	NM_009227	-1.22011
BH3 interacting domain death agonist	NM_007544	1.18338
OLFACTORY RECEPTOR MOR263-9. [Source:RefSeq;Acc:NM_146327] [ENSMUST0000005]	NM_146327	-1.01302
Transforming, acidic coiled-coil containing protein 1	W42204	1
glutamate-cysteine ligase , modifier subunit	NM_008129	-1.01579
Dynein, cytoplasmic, light intermediate polypeptide 2	BC058645	1.01687
regulator for ribosome resistance homolog (S. cerevisiae)	NM_021511	-1.15955
Mus musculus pleiotrophin (Ptn), mRNA [NM_008973]	NM_008973	1.09342
Mus musculus RIKEN cDNA 1700088E04 gene (1700088E04Rik), mRNA [NM_138581]	NM_138581	1.02328
Expressed sequence AW558070	AI843505	1.05433
Mus musculus zinc finger protein 592 (Zfp592), mRNA [NM_178707]	NM_178707	-1.00002
RAB3A, member RAS oncogene family	NM_009001	-1.01133
Mus musculus insulin induced gene 1 (Insig1), mRNA [NM_153526]	NM_153526	-1.62955
Myocyte enhancer factor 2D	BF180029	-1.10216
Mus musculus amelogenin X chromosome (Amelx), mRNA [NM_009666]	NM_009666	-1.08332
thyroid transcription factor 1	NM_009385	1.04282
Mus musculus LIM domain only 1 (Lmo1), mRNA [NM_057173]	NM_057173	1.23688
AF263928 papillomavirus regulatory factor PRF-1 {Homo sapiens}, partial (75%) [TC1032496]	TC1032496	1.0518
RIKEN cDNA C330013J21 gene	AK021199	-1.23393
Mouse perlecan mRNA, complete cds.	M77174	-1.11354
RIKEN cDNA 1700036D21 gene	AK006612	1.05987
transformation related protein 53	NM_011640	-1.00415
RIKEN cDNA E030049G20 gene	AK033370	1.05787
occludin	NM_008756	-1.42163
cell division cycle 25 homolog C (S. cerevisiae)	NM_009860	1.02446
Mus musculus expressed sequence AI451006 (AI451006), mRNA [NM_178919]	NM_178919	1.17902
Unknown		1.07214
Similar to hypothetical protein A430060F13	BQ951335	1.12515
OLFACTORY RECEPTOR GA_X6K02T2PVTD-31740639-31741568. [Source:SPTREMBL;Acc:AF263928]	GA_X6K02T2PVTD-31740639-31741568	1.05325
Mus musculus RIKEN cDNA 9930111J21 gene (9930111J21Rik), mRNA [NM_173434]	NM_173434	1.00165
Mus musculus expressed sequence AI182371 (AI182371), mRNA [NM_178885]	NM_178885	-1.02758
Mus musculus host cell factor C1 regulator 1 (XPO1-dependent) (Hcfc1r1), mRNA [NM_181821]	NM_181821	1.13174
Unknown		1.09525
Mus musculus heat shock protein 1, alpha (Hspca), mRNA [NM_010480]	NM_010480	-1.35373
General transcription factor IIH, polypeptide 3	AK050227	-1.01685
Killer cell lectin-like receptor subfamily A, member 21	U12889	-1.18264
vomer nasal 2, receptor, 10	NM_009486	1.06677

AJ510150 acetyl-CoA acetyltransferase, mitochondrial precursor {Mus musculus}, partial (6%)		1.00025
Mus musculus RIKEN cDNA 1500002O20 gene (1500002O20Rik), mRNA [NM_	NM_028047	1.22251
RIKEN cDNA 1110003H02 gene	NM_024206	-1.07505
ATP-binding cassette, sub-family A (ABC1), member 1	NM_013454	-1.12815
RIKEN cDNA 4930542C12 gene	NM_026292	1.00352
Mus musculus RIKEN cDNA 2410001C21 gene (2410001C21Rik), mRNA [NM_	NM_025542	-1.21085
Mus musculus limbic system-associated membrane protein (Lsamp), mRNA [NM_	NM_175548	-1.03542
Mus musculus RAE1 RNA export 1 homolog (S. pombe) (Rae1), mRNA [NM_	NM_175112	-1.1582
Mus musculus gamma-glutamyltransferase-like 3 (Ggtl3), mRNA [NM_	NM_144786	-1.02838
Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriche	AK012844	-1.35174
transcription factor 17-like 2	NM_013922	-1.11133
nitric oxide synthase trafficker	NM_181547	1.0657
AY007459 PsbH {Ascarina lucida}, partial (44%) [TC1052906]		1.04381
Unknown		1.34531
Mus musculus LIM domain containing preferred translocation partner in lipoma (	NM_178665	-1.05819
Mus musculus phosphatidylinositol-4-phosphate 5-kinase, type II, gamma (Pip5I	NM_054097	1.01483
Mus musculus RIKEN cDNA C130037N17 gene (C130037N17Rik), mRNA [NM_	NM_198024	1.1182
Mus musculus DNA cytosine methyltransferase mRNA.	AF071754	1
Mus musculus LIM homeobox transcription factor 1 alpha (Lmx1a), mRNA [NM_	NM_033652	-1.21272
Mus musculus RIKEN cDNA A830097P10 gene (A830097P10Rik), mRNA [NM_	NM_173780	1.10373
Unknown		1.03208
transducer of ErbB-2.1	NM_009427	-1.30055
Mus musculus RIKEN cDNA 1190005P17 gene (1190005P17Rik), mRNA [NM_	NM_025431	-1.40354
Mus musculus myosin 1H (Myo1h), mRNA [NM_	NM_146163	1.02002
protein tyrosine phosphatase, non-receptor type 11	NM_011202	1.11541
Mus musculus RIKEN cDNA B430214A04 gene (B430214A04Rik), mRNA [NM_	NM_146018	-1.02914
Mus musculus solute carrier family 25 (mitochondrial carrier, phosphate carrier),	NM_172685	1.02789
Mouse cytochrome P-450b (phenobarbital-inducible) gene, partial exon 7.	K02409	1.01234
nuclear receptor subfamily 0, group B, member 2	NM_011850	1.1277
protein phosphatase, EF hand calcium-binding domain 2	NM_011148	-1.55317
Mus musculus brain glycogen phosphorylase (Pygb), mRNA [NM_	NM_153781	1.07014
RAB25, member RAS oncogene family	NM_016899	-1.14599
demilune cell and parotid protein	NM_019910	-1.02833
solute carrier family 4 (anion exchanger), member 3	NM_009208	1.06515
LIM domain binding 3	AJ005621	-1.02009
Prolactin receptor	X73372	1.01243
Transcribed locus, strongly similar to XP_521970.1 PREDICTED: similar to olfa	CB174438	-1.02419
exocyst component protein 70 kDa homolog (S. cerevisiae)	NM_016857	1.03039
phosphorylase kinase alpha 1	NM_008832	1.06
Hook homolog 3 (Drosophila)	AK084594	-1.02174
Mus musculus RIKEN cDNA 2410007P03 gene (2410007P03Rik), mRNA [NM_	NM_025475	1.03887
Cytochrome P450, family 1, subfamily b, polypeptide 1	AK076360	1.05499
Signal peptide, CUB domain, EGF-like 1	AK078630	1.00567
Mucin 3, intestinal	AF027131	1.0462
aldo-keto reductase family 1, member E1	NM_018859	-1.12711
Mus musculus camello-like 3 (Cml3), mRNA [NM_	NM_053097	-1.07229
Mus musculus similar to olfactory receptor MOR165-3 (LOC235216), mRNA [XM_	XM_146743	1.18256
Mus musculus Ras association (RalGDS/AF-6) domain family 3 (Rassf3), mRN	NM_138956	1.10594
Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalact	NM_172451	-1.50324
RIKEN cDNA 6530406M24 gene	AK029793	1.11061
Mus musculus RIKEN cDNA E130307J07 gene (E130307J07Rik), mRNA [NM_	NM_175483	1.07548
Mus musculus small proline-rich protein 4 (Sprr4), mRNA [NM_	NM_173070	-1.0027

Mus musculus RIKEN cDNA 1110020C13 gene (1110020C13Rik), mRNA [NM_	NM_025385	-1.16632
Mus musculus similar to MAP-kinase phosphatase (cpg21) (LOC240672), mRN	XM_140740	1.26018
Williams-Beuren syndrome chromosome region 1 homolog (human)	NM_033561	-1.02663
Mus musculus defensin related cryptdin, related sequence 10 (Defcr-rs10), mRN	NM_007845	1.04367
mast cell protease-like	NM_008573	1.10301
RIKEN cDNA 3526402J09 gene	AK028312	1.01978
telomerase binding protein, p23	NM_019766	-1.36906
Mus musculus uridine monophosphate synthetase (Umps), mRNA [NM_009471	NM_009471	1.04334
Six transmembrane epithelial antigen of prostate 2	AK086787	-1.00561
pyruvate kinase liver and red blood cell	NM_013631	1.0417
Mus musculus RIKEN cDNA 2310065D10 gene (2310065D10Rik), mRNA [XM_	XM_283487	-1.25385
Mus musculus G protein-coupled receptor 43 (Gpr43), mRNA [NM_146187]	NM_146187	1.11026
Adenosine A2b receptor	U05673	-1.00441
Mus musculus RIKEN cDNA 0610033E06 gene (0610033E06Rik), mRNA [NM_	NM_053215	-1.1798
PDZ domain containing 8	AK040491	-1.45531
DnaJ (Hsp40) homolog, subfamily A, member 2	NM_019794	-1.35509
Unknown		1.1029
transcription factor 17-like 1	NM_013744	1.1055
Keratinocyte associated protein 3	BC027812	-1.1324
Unknown		1.14212
Unknown		1.13375
Mus musculus similar to T cell receptor alpha TA27 (LOC195284), mRNA [XM_	XM_111584	1.13066
Mus musculus RIKEN cDNA 5430432N15 gene (5430432N15Rik), mRNA [NM_	NM_172418	1.09505
tectorin beta	NM_009348	1.02631
Mus musculus odd-skipped related 2 (Drosophila) (Osr2), mRNA [NM_054049]	NM_054049	1.00758
Unknown		1.01304
WD repeat domain 4	NM_021322	-1.03326
Mus musculus RIKEN cDNA 1110015K06 gene (1110015K06Rik), mRNA [NM_	NM_026748	1.03038
Unknown		-1.18632
RIKEN cDNA 4930465M17 gene	AK129197	1.02238
Secretin receptor	AK032652	1.1796
pericentriolar material 1	NM_023662	-1.06836
Synaptotagmin 4	NM_009308	1
Mus musculus phospholipid scramblase 4 (Plscr4), mRNA [NM_178711]	NM_178711	-1.50417
Wingless related MMTV integration site 2b	AF070988	1.06397
Unknown		1.01046
Mus musculus MAP/microtubule affinity-regulating kinase 1 (Mark1), mRNA [NM	NM_145515	-1.36101
B-cell stimulating factor 3	NM_019952	-1.05639
phosphatidylcholine transfer protein	NM_008796	1.18021
hepcidin antimicrobial peptide	NM_032541	1.03397
Similar to corneodesmosin precursor; S protein; differentiated keratinocyte S pro	BC055373	1.05677
RIKEN cDNA 1810030N24 gene	NM_025471	1.02403
RIKEN cDNA 2810030E01 gene	AK034607	1.13192
hypothetical protein, MGC:6943	NM_030262	1.22353
602335667F1 NCI_CGAP_Mam1 Mus musculus cDNA clone IMAGE:4458641 !	BG173369	1.00579
Bcl2-like 10	NM_013479	-1.05983
olfactory receptor NP_TR6JSE50FPA	NM_203509	1.0731
Phosphodiesterase 6A, cGMP-specific, rod, alpha	X60664	1.07047
Mus musculus erythrocyte protein band 4.1-like 2 (Epb4.1i2), mRNA [NM_0135	NM_013511	-1.02037
601329563F1 NCI_CGAP_Mam6 Mus musculus cDNA clone IMAGE:3603639 !	BE572603	1.09728
Unknown		1.0084
chromobox homolog 4 (Drosophila Pc class)	NM_007625	1.00788

RIKEN cDNA 1700029H06 gene	NM_026319	-1.13798
RIKEN cDNA 2310061F22 gene	BC036332	1.0598
Zinc finger protein 335	AK007785	1.03175
Mus musculus RIKEN cDNA 4732496G21 gene (4732496G21Rik), mRNA [NM_177088		-1.2364
Unknown		-1.02947
insulin receptor substrate 1	NM_010570	-1.05859
T-cell receptor alpha chain	BC030392	1.06485
adaptor protein complex AP-1, gamma 1 subunit	NM_009677	-1.09798
Mus musculus expressed sequence AW547365 (AW547365), mRNA [NM_1338	NM_133891	-1.16377
RIKEN cDNA A730098D12 gene	AK080576	-1.48381
dermis expressed 1	NM_007855	-1.07841
amino-terminal enhancer of split	NM_010347	-1.11714
Unknown		1.12998
myogenic differentiation 1	NM_010866	-1.01105
Mus musculus eukaryotic translation initiation factor 3, subunit 3 (gamma) (Eif3s	NM_080635	-1.17598
Unknown		1.09793
Alpha-kinase 1	AK018401	-1.06366
Mus musculus Msx1 endogenous antisense RNA, complete sequence.	AF267728	1.07307
Mus musculus similar to olfactory receptor MOR268-2 (LOC233720), mRNA [XM	XM_146041	-1.05788
Leprecan-like 1	AK076434	-1.37007
Mus musculus hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme	NM_178878	1.01303
Mus musculus tubulin-specific chaperone e (Tbce), mRNA [NM_178337]	NM_178337	-1.5462
synaptotagmin 11	NM_018804	1.08128
Mus musculus RIKEN cDNA 6820408C15 gene (6820408C15Rik), mRNA [NM_177656		1.32254
Mus musculus RIKEN cDNA A230079K17 gene (A230079K17Rik), mRNA [NM_172846		1.03126
Mus musculus RIKEN cDNA 1810049H20 gene (1810049H20Rik), mRNA [NM_181391		1.02714
Sorting nexin family member 27	AK041201	1.05033
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:	AK016782	-1.10414
solute carrier family 22 (organic cation transporter), member 1	NM_009202	1.11311
Mus musculus olfactory receptor 959 (Olfr959), mRNA [NM_146508]	NM_146508	1.04035
Mus musculus cytoplasmic FMR1 interacting protein 2 (Cyfip2), mRNA [NM_133769	NM_133769	1.00825
tumor necrosis factor receptor superfamily, member 5	NM_011611	1.06783
Mus musculus PR domain containing 5 (Prdm5), mRNA [NM_027547]	NM_027547	-1.17395
Ribosomal L1 domain containing 1	NM_025546	-1.07327
Unknown		-1.04697
small proline-rich protein 2A	NM_011468	-1.17174
serine/threonine kinase 2	NM_009289	-1.30706
Mus musculus immunoglobulin superfamily, member 4B (Igsf4b), mRNA [NM_053199	NM_053199	1.07047
Mus musculus cDNA clone IMAGE:2651504.	BC057679	1.01766
small nuclear ribonucleoprotein B	NM_009225	-1.03332
nuclear transcription factor-Y gamma	NM_008692	-1.00786
RIKEN cDNA 4930521A18 gene	AK015858	1.03595
Mus musculus cDNA sequence BC025105 (BC025105), mRNA [NM_177789]	NM_177789	1.07235
Mus musculus G protein signaling regulator RGS5 (rgs5) mRNA, complete cds.	U67188	1.0889
SMT3 (supressor of mif two, 3) homolog 1 (S. cerevisiae)	NM_019929	-1.01176
killer cell lectin-like receptor, subfamily A, member 15	NM_013793	-1.29619
pseudouridine synthase 1	NM_019700	-1.11435
myeloid/lymphoid or mixed lineage-leukemia translocation to 10 homolog (Drosophila	NM_010804	-1.00985
Mus musculus RIKEN cDNA 9030405D14 gene (9030405D14Rik), mRNA [NM_027819		-1.00714
Dehydrogenase E1 and transketolase domain containing 1	AK050057	-1.00362
RIKEN cDNA 4933411K20 gene	NM_025747	-1.09146
Unknown		1.06723

Expressed sequence AI461788	AK030894	-1.44981
aldehyde dehydrogenase family 3, subfamily A1	NM_007436	1.05076
germinal center expressed transcript	NM_008099	1.06662
hypothetical MGC86034	NM_00100118	-1.09872
Unknown		-1.03475
Mus musculus defensin beta 10 (Defb10), mRNA [NM_139225]	NM_139225	1.03151
OLFACTORY RECEPTOR GA_X6K02T2PBJ9-6182881-6181898 (FRAGMENT). [Source:SPT		1.10178
Mus musculus par-6 partitioning defective 6 homolog gamma (C. elegans) (Parc	NM_053117	-1.02553
Mus musculus RIKEN cDNA 5830472M02 gene (5830472M02Rik), mRNA [NM_NM_181734		-1.03714
Mus musculus RIKEN cDNA E130309F12 gene (E130309F12Rik), mRNA [NM_NM_178756		1.09344
cytokine receptor family, class 1 (WSXWS), member 1	NM_016671	1.05205
Hbs1-like (S. cerevisiae)	NM_019702	-1.07692
OLFACTORY RECEPTOR GA_X54KRFPKG5P-55314632-55313703. [Source:SPTREMBL;Ac		1.09871
Mus musculus ring finger protein 33 (Rnf33), mRNA [NM_153097]	NM_153097	1.15774
phosphatidylethanolamine N-methyltransferase	NM_008819	1.05422
plexin C1	NM_018797	1.10651
Unknown		1.03002
Mus musculus kelch domain containing 4 (Klhdc4), mRNA [NM_145605]	NM_145605	1.06679
Pituitary specific transcription factor 1, related sequence 1	D12885	-1.16192
Unknown		-1.0427
a disintegrin and metalloproteinase domain 17	NM_009615	1.10064
Mus musculus antimicrobial mRNA sequence.	AF062525	1.23223
Unknown		1.15809
Methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1-like	NM_172308	1.15777
RIKEN cDNA 9130213B05 gene	AK008716	-1.02754
non-catalytic region of tyrosine kinase adaptor protein 2	NM_010879	-1.07946
aplysia ras-related homolog B (RhoB)	NM_007483	1.09541
Mus musculus F-box and leucine-rich repeat protein 4 (Fbxl4), mRNA [NM_172	NM_172988	1.03358
Unknown		1.13633
Olfactory receptor 1182	CB173022	-1.02979
Mus musculus RIKEN cDNA 4931409K22 gene (4931409K22Rik), mRNA [NM_NM_177676		1.01839
MARCKS-like protein	NM_010807	1.08936
Unknown		1.26691
alpha fetoprotein	NM_007423	1.12713
Mus musculus solute carrier family 9 (sodium/hydrogen exchanger), member 8 (	NM_148929	1.071
transformed mouse 3T3 cell double minute 1	NM_010785	1.22458
MAP/microtubule affinity-regulating kinase 4	AK035668	1.18864
Mus musculus polymerase (DNA-directed), delta interacting protein 3 (Poldip3),	NM_178627	-1.10452
Mus musculus developmental pluripotency-associated 3 (Dppa3), mRNA [NM_1	NM_139218	-1.00636
RAD54 like (S. cerevisiae)	NM_009015	-1.05062
Mus musculus adenosine kinase mRNA, complete cds.	U26589	-1.30939
RAD23a homolog (S. cerevisiae)	NM_009010	1.16626
Mus musculus RIKEN cDNA 1110005A03 gene (1110005A03Rik), mRNA [NM_NM_028865		-1.49432
transcription factor EC	NM_031198	-1.16306
Unknown		1.06995
Unknown		1.157
UI-M-CG0p-ber-f-08-0-UI.s1 NIH_BMAP_Ret4_S2 Mus musculus cDNA clone L	BE981995	1.17904
RIKEN cDNA 4930449I24 gene	NM_026136	1.14125
Mus musculus RIKEN cDNA 1700047I17 gene (1700047I17Rik), mRNA [NM_0	NM_028527	1.03862
Unknown		-1.07525
Mus musculus cDNA sequence BC027088 (BC027088), mRNA [NM_146156]	NM_146156	-1.00045
Mus musculus expressed sequence AI114950 (AI114950), mRNA [NM_053194	NM_053194	-1.27969

Unknown		1.14751
solute carrier family 7 (cationic amino acid transporter, y+ system), member 5	NM_011404	-1.04976
Mus musculus glucagon (Gcg), mRNA [NM_008100]	NM_008100	1.06414
Mus musculus kallikrein 21 (Klk21), mRNA [NM_010642]	NM_010642	1.05584
eukaryotic translation initiation factor 2 alpha kinase 2	NM_011163	1.02563
OLFACTORY RECEPTOR GA_X6K02T2Q125-48521031-48520093. [Source:SPTREMBL;Acc:		1.09919
N-terminal Asn amidase	NM_010946	-1.12737
Mus musculus RIKEN cDNA 1700049E17 gene (1700049E17Rik), mRNA [NM_	NM_028535	1.03883
Homeo box D8	AK016033	1.01677
seizure related gene 6	NM_021286	1.05711
N-sulfoglucosamine sulfohydrolase (sulfamidase)	NM_018822	-1.09044
Mus musculus glucan (1,4-alpha-), branching enzyme 1 (Gbe1), mRNA [NM_02	NM_028803	-1.05762
amylase 2, pancreatic	NM_009669	-1.14093
Mus musculus protocadherin gamma subfamily B, 5 (Pcdhgb5), mRNA [NM_03:	NM_033577	1.05457
aryl-hydrocarbon receptor-interacting protein	NM_016666	-1.12006
Hypothetical protein C130006E23	AK079102	1.05624
Phosphofurin acidic cluster sorting protein 1-like	AK122326	1.10938
Mus musculus RIKEN cDNA 1700017G21 gene (1700017G21Rik), mRNA [NM_	NM_027955	-1.10907
storage granule protein 23	U64446	1.087
Mus musculus RIKEN cDNA 2810002D13 gene (2810002D13Rik), mRNA [NM_	NM_025657	-1.04314
Unknown		-1.1717
RIKEN cDNA 1700001J11 gene	AK005601	-1.05141
Mus musculus Tnf receptor-associated factor 7 (Traf7), mRNA [NM_153792]	NM_153792	1.14843
RIKEN cDNA D030015G18 gene	AK083440	1.01116
surfeit gene 5	NM_011513	1.25848
Mus musculus RIKEN cDNA A930016P21 gene (A930016P21Rik), mRNA [NM_	NM_026546	-1.10634
Ubiquitin associated protein 2-like	AK048286	1.17938
ATPase, Na ⁺ /K ⁺ transporting, beta 2 polypeptide	NM_013415	1.0818
Mus musculus regulator of G-protein signaling 6 (Rgs6), mRNA [NM_015812]	NM_015812	1.00028
Mus musculus cDNA sequence BC051227 (BC051227), mRNA [NM_183170]	NM_183170	1.00101
Mus musculus histone aminotransferase 1 (Hat1), mRNA [NM_026115]	NM_026115	-1.10239
RIKEN cDNA 1700080O16 gene	AK006959	1.03069
Mus musculus guanylate nucleotide binding protein 5 (Gbp5), mRNA [NM_2124	NM_212440	1.02643
RIKEN cDNA 6330500D04 gene	AK007145	1.03551
Mus musculus MOB1, Mps One Binder kinase activator-like 2B (yeast) (Mobk12t	NM_178061	1.0257
Mus musculus potassium channel tetramerisation domain containing 11 (Kctd11	NM_153143	1.0403
guanine nucleotide binding protein, related sequence 1	NM_008136	1.03889
Similar to arylacetamide deacetylase	BB649760	1
Unknown		-1.42085
histocompatibility 2, class II antigen E alpha	NM_010381	-1.1402
RIKEN cDNA 2410004B18 gene	NM_025555	-1.32606
Solute carrier family 4 (anion exchanger), member 4	BC049236	-1.07144
Mus musculus prostate tumor over expressed gene 1 (Ptov1), mRNA [NM_1339	NM_133949	1.03174
RIKEN cDNA A930031D07 gene	AK044667	1.10217
Transcribed locus	BU962511	1.06229
ribosomal protein L21	NM_019647	-1.20816
Kell blood group	NM_032540	1.05239
OLFACTORY RECEPTOR GA_X6K02T2PBJ9-7604826-7603885. [Source:SPTREMBL;Acc:Q		1.03437
sal-like 1 (Drosophila)	NM_021390	1.08537
RIKEN cDNA 2600017J23 gene	NM_025566	-1.04213
AE-binding protein 2	NM_009637	1.30413
Mus musculus potassium voltage-gated channel, subfamily G, member 4 (Kcng.	NM_025734	1.04432

LMRA_STRLN Lincomycin resistance protein. {Streptomyces lincolnensis}, partial (5%) [TC976		-1.0578
RIKEN cDNA 6720407C15 gene	NM_026557	-1.52648
Tryptophan rich basic protein	AK084688	1.17107
kinase suppressor of ras	NM_013571	1.00045
wingless-related MMTV integration site 6	NM_009526	1.0734
RIKEN cDNA 4921510H08 gene	NM_025724	1.0423
MyoD family inhibitor domain containing	NM_175088	-1.0893
Calcium/calmodulin-dependent protein kinase II, beta	BC056646	1.4663
Mus musculus sterol O-acyltransferase 2 (Soat2), mRNA [NM_146064]	NM_146064	1.00522
SH3 domain protein 4	NM_011366	1.21171
CDNA sequence BC007180	BC007180	-1.05939
Unknown		1.02976
Mus musculus RIKEN cDNA A930038C07 gene (A930038C07Rik), mRNA [NM_	NM_172399	1.2353
UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransf	AB045325	-1.03713
glial cell line derived neurotrophic factor family receptor alpha 2	NM_008115	-1.09248
calmodulin 3	NM_007590	-1.19901
Unknown		1
Mus musculus adenylate cyclase 3 (Adcy3), mRNA [NM_138305]	NM_138305	1.10545
eukaryotic translation initiation factor 3, subunit 2 (beta, 36kD)	NM_018799	-1.2256
ecotropic viral integration site 2	NM_010161	-1.26061
RIKEN cDNA 1810059J10 gene	NM_023214	1.12322
Mus musculus BRCA1 associated protein (Brap), mRNA [NM_028227]	NM_028227	-1.09854
Unknown		1.04432
polymerase (DNA directed), lambda	NM_020032	1.05869
secretory blood group 1	NM_019934	1.05321
RIKEN cDNA A930040G15 gene	AK020945	1.05328
chemokine (C-C) receptor 7	NM_007719	1.08829
visinin-like 1	NM_012038	1.0063
Mus musculus similar to hypothetical protein (LOC381023), mRNA [XM_128096	XM_128096	1.26801
Cyclin M3	BC023229	1
Mus musculus secretagogin, EF-hand calcium binding protein (Scgn), mRNA [N	NM_145399	1.08963
Mus musculus RIKEN cDNA 4933406A14 gene (4933406A14Rik), mRNA [NM_	NM_177570	1.14175
RIKEN cDNA 2510006C20 gene	NM_026527	-1.14126
Unknown		1.16831
Mus musculus serologically defined colon cancer antigen 1 (Sdccag1), transcrip	NM_181665	-1.07555
Mus musculus RIKEN cDNA 1810026J23 gene (1810026J23Rik), mRNA [NM_1	NM_178619	1.02221
lung alpha/beta hydrolase 1	NM_021304	-1.02687
Lipase-like, ab-hydrolase domain containing 3	AK085719	-1.03591
T-complex protein 11	X52129	1.02217
Ubiquitin specific protease 22	BC058419	-1.07925
Mus musculus eukaryotic translation termination factor 1 (Etf1), mRNA [NM_14	NM_144866	-1.02604
OLFACTORY RECEPTOR GA_X6K02T2RE5P-2222521-2221490. [Source:SPTREMBL;Acc:C		1
epithelial membrane protein 3	NM_010129	-1.04517
Solute carrier family 27 (fatty acid transporter), member 3	AF072758	1.08813
ADP-ribosylation-like 4	NM_007487	-1.14905
ADP-ribosylation factor 3	NM_007478	-1.07032
Unknown		1
Mus musculus RIKEN cDNA 1810010O14 gene (1810010O14Rik), mRNA [NM_	NM_028994	-1.02052
Bcl2-associated X protein	NM_007527	-1.02722
Zinc finger protein 27	M36515	-1.05865
RIKEN cDNA 1810030J14 gene	NM_025470	1.24303
RIKEN cDNA 2610024A01 gene	AK015544	-1.11475

nucleoredoxin	NM_008750	1.15387
RIKEN cDNA 1810036H07 gene	NM_025467	1.09563
Mus musculus elaC homolog 1 (E. coli) (Elac1), mRNA [NM_053255]	NM_053255	-1.11397
Ankyrin repeat and SAM domain containing 1	NM_181413	-1.09965
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, sul	NM_031878	-1.23204
Unknown		1.14665
Mus musculus alanine and arginine rich domain containing protein (Aard), mRN	NM_175503	1.0156
Mus musculus homeo box C5 (Hoxc5), mRNA [NM_175730]	NM_175730	1.09126
proteoglycan 2, bone marrow	NM_008920	1.14888
Mus musculus StAR-related lipid transfer (START) domain containing 6 (Stard6)	NM_029019	1.02681
Mus musculus RIKEN cDNA 2310067B10 gene (2310067B10Rik), mRNA [NM_	NM_028014	1.15632
Unknown		-1.13832
RAB27A, member RAS oncogene family	AF304376	1.01317
RIKEN cDNA 2310061I09 gene	BC019430	-1.10087
Mus musculus RIKEN cDNA A030009B12 gene (A030009B12Rik), mRNA [NM_	NM_026588	1.10296
Mus musculus RIKEN cDNA A430081C19 gene (A430081C19Rik), mRNA [NM_	NM_178755	-1.0693
601330526F1 NCI_CGAP_Mam6 Mus musculus cDNA clone IMAGE:3707862 !	BE571330	-1.1515
Mus musculus RIKEN cDNA 1110007C02 gene (1110007C02Rik), mRNA [NM_	NM_027923	-1.21353
growth associated protein 43	NM_008083	-1.04666
prestin (motor protein)	NM_030727	-1.03612
leptin receptor	NM_010704	-1.20503
Mus musculus RIKEN cDNA 6330404A07 gene (6330404A07Rik), mRNA [NM_	NM_027537	-1.06913
Mus musculus PRP3 pre-mRNA processing factor 3 homolog (yeast) (Prpf3), m	NM_027541	-1.00276
RecQ protein-like	NM_023042	-1.31035
Death-associated kinase 3	AK015362	1.20263
cofactor required for Sp1 transcriptional activation subunit 2 (150 kDa)	NM_012005	1.21197
Mus musculus melanoma inhibitory activity 2 (Mia2), mRNA [NM_177321]	NM_177321	1.00419
Mus musculus T-box 4 (Tbx4), mRNA [NM_011536]	NM_011536	-1.04311
aldehyde dehydrogenase family 1, subfamily A4	NM_011921	-1.38396
zinc finger protein 207	NM_011751	-1.48783
Ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, C. elegans)	BC065083	-1.18175
Mus musculus RIKEN cDNA B130052G07 gene (B130052G07Rik), mRNA [NM_	NM_144879	1.00012
Mus musculus olfactory receptor 924 (Olfr924), mRNA [NM_207560]	NM_207560	1.1435
RIKEN cDNA 1700011L22 gene	AK005876	1.13065
RIKEN cDNA 4930435H24 gene	AK015324	1.21053
RIKEN cDNA 1700020N01 gene	AK006179	1.06818
Unknown		1.14654
RIKEN cDNA 2310021P13 gene	AK009454	-1.20857
Mus musculus bicaudal D homolog 1 (Drosophila) (Bicd1), mRNA [NM_009753]	NM_009753	1.03068
Mus musculus RIKEN cDNA 4930503L19 gene (4930503L19Rik), mRNA [NM_	NM_172967	-1.05613
Mus musculus RIKEN cDNA 5430438H03 gene (5430438H03Rik), mRNA [NM_	NM_176951	1.15392
Unknown		1.05583
UI-M-BZ1-bfs-n-17-0-UI.s1 NIH_BMAP_MHI2_S1 Mus musculus cDNA clone U	BE989706	1
Transcribed locus	AI425936	1.23597
high mobility group 20 B	NM_010440	1.13884
p21 (CDKN1A)-activated kinase 3	NM_008778	-1.00381
Mus musculus uroplakin 3B (Upk3b), mRNA [NM_175309]	NM_175309	1.24635
Mus musculus pyruvate dehydrogenase kinase, isoenzyme 2 (Pdk2), mRNA [NI	NM_133667	1.0371
Mus musculus MAS-related GPR, member B2 (Mrgprb2), mRNA [NM_175531]	NM_175531	1.00308
tight junction protein 2	NM_011597	-1.24423
thymocyte protein thy28	AK040818	-1.00687
Mus musculus RIKEN cDNA A930014C21 gene (A930014C21Rik), mRNA [NM_	NM_172507	-1.18201

inositol polyphosphate-1-phosphatase	NM_008384	-1.00042
solute carrier family 1, member 2	NM_011393	-1.07868
Mus musculus breast cancer 1 (Brca1), mRNA [NM_009764]	NM_009764	1.08922
Mus musculus RIKEN cDNA F630035L11 gene (F630035L11Rik), mRNA [NM_0175529]	NM_175529	-1.00734
RIKEN cDNA 2810003H13 gene	NM_023217	1.00097
RIKEN cDNA 4930579G22 gene	AK016320	1.04994
Unknown		1.06483
Mus musculus RIKEN cDNA 2310079F23 gene (2310079F23Rik), mRNA [NM_030208]	NM_030208	-1.05481
Mus musculus homeo box B9 (Hoxb9), mRNA [NM_008270]	NM_008270	1.15031
cell death-inducing DNA fragmentation factor, alpha subunit-like effector B	NM_009894	1.08853
RIKEN cDNA 1110002L01 gene	AK035515	1.07472
Mus musculus nuclear receptor subfamily 1, group D, member 2 (Nr1d2), mRNA [NM_011584]	NM_011584	-1.01547
CDNA sequence BC024760	BC024760	-1.09699
DNA segment, Chr 8, ERATO Doi 69, expressed	AK015275	1.15821
RIKEN cDNA 1700051I12 gene	AK006759	1.08957
parkin	NM_016694	1.03596
protein phosphatase 3, regulatory subunit B, alpha isoform (calcineurin B, type I)	NM_024459	1.09856
DEAH (Asp-Glu-Ala-His) box polypeptide 29	BC038650	1.05016
Mus musculus RIKEN cDNA 2810405F18 gene (2810405F18Rik), mRNA [NM_028142]	NM_028142	-1.02473
macrophage activation 2	NM_008620	-1.13449
Mus musculus RIKEN cDNA 5430433G21 gene (5430433G21Rik), mRNA [XM_283765]	XM_283765	-1.53632
Nuclear receptor-binding SET-domain protein 1	BC024388	-1.00428
Mus musculus RIKEN cDNA 1500003O22 gene (1500003O22Rik), mRNA [NM_025897]	NM_025897	-1.39464
Cytoskeleton-associated protein 4	AK030708	-1.14981
retinol binding protein 7, cellular	NM_022020	-1.03555
RIKEN cDNA 3300001A09 gene	BC039571	1.06101
cyclic nucleotide phosphodiesterase 1	NM_009923	1.10646
tre-2/USP6, BUB2, cdc16) domain family, member 1	NM_019636	-1.06238
Mus musculus discs, large (Drosophila) homolog-associated protein 2 (Dlgap2), mRNA [NM_172910]	NM_172910	-1.12134
RIKEN cDNA A630073K07 gene	BE863749	1.16206
Unknown		1.18629
Mus musculus taste receptor, type 2, member 107 (Tas2r107), mRNA [NM_199154]	NM_199154	-1.01493
endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2	NM_010336	-1.36261
epidermal growth factor	NM_010113	-1.02504
Unknown		1.1574
RIKEN cDNA 2810422J05 gene	BC048938	-1.16419
RIKEN cDNA 1110001K21 gene	NM_025839	-1.07935
RIKEN cDNA 1700123O21 gene	AW489277	1.09105
type I transmembrane protein	NM_021793	-1.34917
BRCA1 associated RING domain 1	NM_007525	-1.18514
Mus musculus RIKEN cDNA 2210404G23 gene (2210404G23Rik), mRNA [NM_025958]	NM_025958	1.05826
chemokine (C-C) receptor 5	NM_009917	1.16566
Melanoma antigen, family A, 5	NM_020018	-1.00214
Transformation related protein 63	NM_011641	-1.065
Mus musculus cDNA sequence BC024537 (BC024537), mRNA [NM_146237]	NM_146237	1.05519
dynactin 5	NM_021608	-1.00922
Unknown		1.18379
RIKEN cDNA 1300017N15 gene	NM_023739	1.0253
Mus musculus BCS1-like (yeast) (Bcs1l), mRNA [NM_025784]	NM_025784	1.04946
Unknown		1.09216
Unknown		1.20328
Mus musculus histone 1, H4d (Hist1h4d), mRNA [NM_175654]	NM_175654	1.42592

Mus musculus RIKEN cDNA 1110002B05 gene (1110002B05Rik), mRNA [NM_	NM_134054	-1.32199
Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, c	AK081421	1.15782
RIKEN cDNA 4632413C14 gene	BC013471	-1.14733
Pleckstrin homology-like domain, family A, member 2	NM_009434	1.01281
Mus musculus oocyte specific homeobox 1 (Obox1), mRNA [NM_027802]	NM_027802	-1.07898
Mus musculus protein tyrosine phosphatase, receptor type, N polypeptide 2 (Ptp	NM_011215	1.06241
RIKEN cDNA 4921521K07 gene	AK029548	1.13773
Mus musculus valyl-tRNA synthetase 2-like (Vars2l), mRNA [NM_175137]	NM_175137	-1.07297
Mus musculus nuclear receptor subfamily 1, group H, member 5 (Nr1h5), transc	NM_201619	1.07755
RIKEN cDNA 5830468F06 gene	AK018042	-1.02144
testis expressed gene 14	NM_031386	-1.09335
Small EDRK-rich factor 1	BC001981	-1.05511
chloride channel 7	NM_011930	-1.1624
Fetal Alzheimer antigen	BC037661	1.18392
RAB7, member RAS oncogene family	NM_009005	-1.17896
Unknown		-1.00113
hypothetical protein, MNCb-4193	NM_020271	1.16084
solute carrier family 13 (sodium/sulphate symporters), member 1	NM_019481	1.05954
Mus musculus protocadherin beta 9 (Pcdhb9), mRNA [NM_053134]	NM_053134	-1.02411
RIKEN cDNA 2310047O13 gene	NM_024185	-1.18568
Myosin ID	BC034071	1.02209
Mus musculus cDNA sequence BC003267 (BC003267), mRNA [NM_145591]	NM_145591	-1.36312
MHC psoriasis candidate gene	NM_020576	1.08077
Unknown		-1.39504
Mus musculus PHD finger protein 6 (Phf6), mRNA [NM_027642]	NM_027642	-1.02839
RIKEN cDNA 2600001B17 gene	AK081685	1.2326
Unknown		1.02175
Mus musculus expressed sequence AU022870 (AU022870), mRNA [NM_17768	NM_177682	-1.36758
CDNA sequence BC031601	AK046730	1.09239
Mus musculus RIKEN cDNA 6330409N04 gene (6330409N04Rik), mRNA [NM_	NM_025697	-2.15913
X83413 U88 {Human herpesvirus 6}, partial (14%) [TC1052784]		1.0321
solute carrier family 2 (facilitated glucose transporter), member 3	NM_011401	1.17933
RIKEN cDNA 2510010K19 gene	AK129202	-1.04288
Mus musculus RIKEN cDNA 4930432H15 gene (4930432H15Rik), mRNA [NM_	NM_028671	-1.00195
sprouty homolog 1 (Drosophila)	NM_011896	-1.01063
RIKEN cDNA E130115J16 gene	AK081218	1
Ubiquitin-conjugating enzyme E2D 1, UBC4/5 homolog (yeast)	AK037532	1.00228
Mus musculus interleukin 17 receptor C (Il17rc), mRNA [NM_134159]	NM_134159	1.06746
Ellis van Creveld gene homolog (human)	NM_021292	1.07533
Mus musculus RIKEN cDNA 2810441O16 gene (2810441O16Rik), mRNA [NM_	NM_026043	-1.0435
Mus musculus ubiquitin specific protease 19 (Usp19), mRNA [NM_027804]	NM_027804	-1.08466
Mus musculus RIKEN cDNA 4732437J24 gene (4732437J24Rik), mRNA [NM_1	NM_172338	-1.00343
cytokine inducible SH2-containing protein 1	NM_009896	1.06686
Mus musculus adult male liver cDNA, RIKEN full-length enriched library, clone:1	AK005024	-1.02258
Mus musculus RIKEN cDNA D730019B10 gene (D730019B10Rik), mRNA [NM_	NM_172785	1.01447
small inducible cytokine A11	NM_011330	1
Mus musculus RIKEN cDNA 1700016D06 gene (1700016D06Rik), mRNA [NM_	NM_024271	-1.05481
RIKEN cDNA 4933409K07 gene	BC059060	1.0757
Mus musculus procollagen, type VI, alpha 2 (Col6a2), mRNA [NM_146007]	NM_146007	1.08043
endoplasmic reticulum (ER) to nucleus signalling 2	NM_012016	1.30393
RIKEN cDNA 2500001K11 gene	AK031130	1.02025
Mus musculus homeo box C6 (Hoxc6), mRNA [NM_010465]	NM_010465	1.10077

Unknown		1.11613
RIKEN cDNA 2310075M15 gene	AK122223	-1.31854
Retinol dehydrogenase 10 (all-trans)	NM_133832	-1.63273
Mus musculus expressed sequence AI839920 (AI839920), mRNA [NM_182996]	NM_182996	-1.07523
CDNA sequence BC031140	BC024424	1.05204
RIKEN cDNA 9330175B01 gene	BC058722	1.15739
pregnancy specific glycoprotein 19	NM_011964	1.04582
Mus musculus sorting nexin 14 (Snx14), mRNA [NM_172926]	NM_172926	-1.37209
histocompatibility 2, O region beta locus	NM_010389	-1.0116
RIKEN cDNA 1300007M11 gene	NM_025362	1.29409
Mus musculus RIKEN cDNA C730026E21 gene (C730026E21Rik), mRNA [NM_175439]	NM_175439	1.01365
Mus musculus histone 1, H1b (Hist1h1b), mRNA [NM_020034]	NM_020034	-1.02609
RIKEN cDNA C530008M17 gene	AK016430	1.01251
Mus musculus cDNA sequence BC031407 (BC031407), mRNA [NM_145596]	NM_145596	1.06115
Mus musculus RIKEN cDNA 1700113I22 gene (1700113I22Rik), mRNA [NM_026865]	NM_026865	1.03595
Ribosomal protein L24	AK003937	1.24789
Mus musculus olfactory receptor 683 (Olfr683), mRNA [NM_147045]	NM_147045	1.16127
wee 1 homolog (S. pombe)	NM_009516	1.00604
Mus musculus RIKEN cDNA C330017E21 gene (C330017E21Rik), mRNA [NM_172658]	NM_172658	1.0292
Mus musculus bromodomain, testis-specific (Brdt), mRNA [NM_054054]	NM_054054	-1.12185
Unknown		1.23589
Unknown		1.04346
RIKEN cDNA 1200014M14 gene	NM_026173	-1.20459
GTPase activating RANGAP domain-like 4	AK122424	1.14235
frizzy-related protein 1 (Drosophila)	NM_019757	1.06779
Mus musculus tenascin N (Tnn), mRNA [NM_177839]	NM_177839	-1.0217
Transcribed locus, strongly similar to NP_004172.2 ubiquitin carboxyl-terminal e	BQ128499	1.05336
Mus musculus protein phosphatase 4, regulatory subunit 2 (Ppp4r2), mRNA [NM_182939]	NM_182939	-1.28825
Hedgehog-interacting protein	NM_020259	-1.13369
ATP-binding cassette, sub-family D (ALD), member 2	NM_011994	1.12405
hypothetical protein C130073P14	AK081752	1.17189
signal transducing adaptor molecule (SH3 domain and ITAM motif) 2	NM_019667	-1.08223
src homology 2 domain-containing transforming protein C1	NM_011368	1.11211
Heterogeneous nuclear ribonucleoprotein A1	BC052723	-1.21129
iduronate 2-sulfatase	NM_010498	-1.79251
H6 homeo box 3	NM_008257	1.00523
complement receptor related protein	NM_013499	-1.40255
activator of CREM in testis	NM_021318	-1.01372
AF302077 neprilysin-like peptidase gamma {Mus musculus}, partial (4%) [TC959899]		-1.04082
schlafen 3	NM_011409	-1.3295
coronin, actin binding protein 1C	NM_011779	1.04456
SEC23A (S. cerevisiae)	NM_009147	1.08644
Mus musculus RIKEN cDNA 4930405M20 gene (4930405M20Rik), mRNA [XM_127489]	XM_127489	1.01522
synapsin II	NM_013681	1.08159
RIKEN cDNA 2900024C23 gene	AK036773	1.06952
hematopoietic cell signal transducer	NM_011827	1.03608
OLFACTORY RECEPTOR GA_X6K02T2PSCP-1823235-1824161 (FRAGMENT). [Source:SP]		1.0563
RIKEN cDNA 4921509F24 gene	AK014852	-1.76676
RIKEN cDNA 2600003E23 gene	AK029175	-1.04523
Mus musculus cDNA sequence BC013529 (BC013529), mRNA [NM_145418]	NM_145418	-1.49301
origin recognition complex, subunit 5 homolog (S. cerevisiae)	NM_011959	-1.18297
Gremlin 1	NM_011824	1.10429

RIKEN cDNA 2310008H09 gene	NM_023197	1.16401
Mus musculus amyloid beta (A4) precursor protein-binding, family A, member 1	NM_177034	1.03741
Mus musculus claudin 12 (Cldn12), mRNA [NM_022890]	NM_022890	-1.15401
Mus musculus dedicator of cyto-kinesis 3 (Dock3), mRNA [NM_153413]	NM_153413	1.05621
protein tyrosine phosphatase, non-receptor type 11	NM_011202	-1.02775
RIKEN cDNA 5830411K18 gene	AK051037	-1.04846
Mus musculus RIKEN cDNA 2510038A11 gene (2510038A11Rik), mRNA [NM_175109]	NM_175109	-1.04055
Mus musculus cDNA sequence BC028265 (BC028265), mRNA [NM_172392]	NM_172392	-1.17392
Mus musculus RIKEN cDNA 4930418P06 gene (4930418P06Rik), mRNA [NM_029777]	NM_029777	1.00607
RIKEN cDNA 1110030M22 gene	NM_025401	1.02011
Mus musculus RIKEN cDNA 4930544G21 gene (4930544G21Rik), mRNA [NM_172430]	NM_172430	1.03245
Mus musculus receptor (TNFRSF)-interacting serine-threonine kinase 2 (Ripk2)	NM_138952	-1.0322
Mus musculus N-acylsphingosine amidohydrolase (alkaline ceramidase) 3 (Asah1)	NM_175731	1.08849
Mus musculus polo-like kinase 4 (Drosophila) (Plk4), mRNA [NM_011495]	NM_011495	-1.08051
neuronal protein 15.6	NM_019435	-1.24914
cathepsin F	NM_019861	1.02784
Unknown		-1.02312
Mouse perforin 1 mRNA, complete cds.	J04148	1.0234
Mus musculus histone 1, H2aa (Hist1h2aa), mRNA [NM_175658]	NM_175658	1.03267
sprouty protein with EVH-1 domain 2, related sequence	NM_033523	1.26151
RIKEN cDNA 2610528J11 gene	NM_025572	1.15083
Mus musculus SJL/j viral integration site (His-1) RNA transcript, exons 1, 2b and 3	U09772	-1.001
Unknown		1.03508
Synaptotagmin 1	BC048187	1.05556
Unknown		1.05574
Mus musculus sema domain, immunoglobulin domain (Ig), short basic domain, semaphorin 4D	NM_028882	-1.09526
Unknown		1.05005
Baculoviral IAP repeat-containing 4	AK041844	1.12738
synaptotagmin 3	NM_016663	1.10959
Mus musculus procollagen, type I, alpha 1 (Col1a1), mRNA [NM_007742]	NM_007742	1.13206
Unknown		1.12697
Mus musculus RIKEN cDNA 4931419P11 gene (4931419P11Rik), mRNA [NM_207268]	NM_207268	1.24058
RIKEN cDNA 4933401B01 gene	AK016597	1
glutaredoxin 2 (thioltransferase)	NM_023505	-1.14077
tumor necrosis factor, alpha-induced protein 3	NM_009397	1.05893
RalBP1 associated Eps domain containing protein	NM_009048	-1.02164
RIKEN cDNA C430003P19 gene	AI891454	1.01706
ribosomal protein S6 kinase, 90kD, polypeptide 2	NM_011299	1.01713
RIKEN cDNA E030003N15 gene	AK053114	-1.09408
alpha-N-acetylglucosaminidase (Sanfilippo disease IIIB)	NM_013792	1.09132
insulin-like growth factor binding protein 6	NM_008344	1.00871
kallikrein 16	NM_008454	1.0684
Unknown		1.23746
RIKEN cDNA 1110034G24 gene	AK004090	-1.00232
Mus musculus PDGFA associated protein 1 (Pdap1), mRNA [XM_132501]	XM_132501	-1.01974
Mus musculus clone MBII-223 miscellaneous RNA, partial sequence.	AF357512	1.04945
Unknown		1.01859
Mus musculus protocadherin alpha 9 (Pcdha9), mRNA [NM_138661]	NM_138661	1.05789
AGENCOURT_8290855 NIH_MGC_129 Mus musculus cDNA clone IMAGE:6310333	BQ715323	1.28257
PDZ domain containing 3	AK122240	-1.0321
delta-like 4 homolog (Drosophila)	NM_019454	-1.29598
Ngfi-A binding protein 1	NM_008667	-1.01537

Unknown		1.08628
RIKEN cDNA 1700058C13 gene	AK006829	1.12241
Unknown		1.04246
Mus musculus RIKEN cDNA 1110067L22 gene (1110067L22Rik), mRNA [NM_(NM_026855		-1.06141
protein kinase C, zeta	NM_008860	1.06056
small inducible cytokine A25	NM_009138	1
SFFV proviral integration 1	NM_011355	1.03853
Casein kinase 1, gamma 1	AK128977	-1.14039
RIKEN cDNA 1700095J03 gene	AK030603	1.09957
cell division cycle 37 homolog (S. cerevisiae)	NM_016742	1.26712
Mus musculus solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc	NM_144902	-1.60737
Mus musculus surfactant associated protein A (Sftpa), mRNA [NM_023134]	NM_023134	-1.21368
ubiquitin specific protease 5 (isopeptidase T)	NM_013700	-1.10359
Mus musculus 15 days embryo male testis cDNA, RIKEN full-length enriched lib	AK020208	-1.02838
GMP2_MOUSE GMP reductase 2(Guanosine 5'-monophosphate oxidoreductase 2) (Guanosin		1.07357
RIKEN cDNA 4933428F06 gene	AK030281	1.17204
solute carrier family 7 (cationic amino acid transporter, y+ system), member 9	NM_021291	1.05935
Unknown		-1.01801
solute carrier family 5 (choline transporter), member 7	NM_022025	1.04931
Membrane-associated ring finger (C3HC4) 3	AK029887	1.33124
Mus musculus hypothetical protein 9430020K01 (9430020K01), mRNA [XM_141	XM_140198	1.15353
Mus musculus similar to olfactory receptor MOR268-5 (LOC233722), mRNA [XM	XM_146043	1.10957
Unknown		1.06996
Mus musculus zinc finger, DHHC domain containing 13 (Zdhhc13), mRNA [NM_	NM_028031	-1.12938
solute carrier family 6 (neurotransmitter transporter, noradrenalin), member 2	NM_009209	1.15953
Unknown		1.2278
RIKEN cDNA 2610001J05 gene	AK035027	1.00762
lamin B2	NM_010722	1.02056
RIKEN cDNA D630045J12 gene	AK085604	1.06192
Open reading frame 61	BC005494	-1.08112
Expressed sequence AU067806	AU067806	1.01507
Mus musculus retinol dehydrogenase 13 (all-trans and 9-cis) (Rdh13), mRNA [N	NM_175372	1.05823
RRN3 RNA polymerase I transcription factor homolog (yeast)	BC006659	1.08739
Mus musculus 5'-AMP-activated protein kinase beta subunit mRNA, partial cds.	AF108215	1.27851
RIKEN cDNA 5430433E21 gene	AK048611	1.06352
RIKEN cDNA D230004J03 gene	AK046543	1.02473
neuron specific gene family member 1	NM_010942	-1.06129
stau6 (RNA-binding protein) homolog 1 (Drosophila)	NM_011490	-1.13245
Chromodomain helicase DNA binding protein 1	AK042739	-1.27179
UI-M-AP1-agj-c-11-0-UI.s1 NIH_BMAP_MST_N Mus musculus cDNA clone UI-I	AI846999	1
Mus musculus expressed sequence BB049667 (BB049667), mRNA [NM_17789	NM_177898	1.04123
RIKEN cDNA C130085G02 gene	AK048603	-1.07238
Mus musculus DNA segment, Chr 19, ERATO Doi 703, expressed (D19Ert	d703	NM_029456
RIKEN cDNA 1110054O05 gene	AK004256	-1.09972
regulatory factor (trans-acting) 1	NM_009055	1.01159
ribosomal protein S6	NM_009096	-1.14895
hypothetical protein 4932416A15	NM_173433	1.17039
TGIF homeobox 1	AF434662	1.12006
Mus musculus ubiquitously transcribed tetratricopeptide repeat gene, X chromo	s:NM_009483	1.06635
Unknown		1.07317
phosphoglycerate mutase 1	NM_023418	1.01113
RIKEN cDNA 2610005L07 gene	AK081322	-1.42069

Mus musculus RAD9 homolog B (<i>S. cerevisiae</i>) (Rad9b), mRNA [NM_144912]	NM_144912	1.08917
Synaptojanin 2	AF026123	-1.06629
Dual specificity phosphatase 23	AK004912	1.01594
Mus musculus vacuolar protein sorting 4a (yeast) (Vps4a), mRNA [NM_126165]	NM_126165	-1.00492
Unknown		1.1174
RIKEN cDNA 5330411L03 gene	AK030435	-1.03805
limb-bud and heart	AF317517	-1.02725
Sterile alpha motif domain containing 7	AK044227	-1.03843
activating transcription factor 3	NM_007498	1.06827
Chemokine (C-C motif) receptor-like 1	AK030643	-1.17014
eukaryotic translation elongation factor 1 alpha 2	NM_007906	1.04805
matrix metalloproteinase 20 (enamelysin)	NM_013903	1.15007
TRYPSIN II, ANIONIC PRECURSOR (EC 3.4.21.4) (PRETRYPSINOGEN II). [Source:SWISSF		-1.00837
602023933F1 NCI_CGAP_Li9 Mus musculus cDNA clone IMAGE:4159016 5', r	BF232905	1.05669
BC025553 LOC192786 protein {Mus musculus}, complete [TC1023047]		-1.00393
DNA segment, Chr 14, ERATO Doi 581, expressed	AK045133	1.03179
Mus musculus nuclear factor of activated T-cells, cytoplasmic, calcineurin-deper	NM_010900	1.11125
Mus musculus expressed sequence AI325464 (AI325464), mRNA [NM_178882	NM_178882	1.00254
Mus musculus serine (or cysteine) proteinase inhibitor, clade B, member 6c (Se	NM_148942	-1.25011
Mus musculus F-box only protein 22 (Fbxo22), mRNA [NM_028049]	NM_028049	-1.2867
RIKEN cDNA 4432409M24 gene	NM_026220	-1.11027
Mus musculus interferon gamma receptor 2 (Ifngr2), mRNA [NM_008338]	NM_008338	-1.03123
Unknown		-1.0097
Mus musculus UBX domain containing 2 (Ubx2), mRNA [NM_026390]	NM_026390	1.04653
mucin 10, submandibular gland salivary mucin	NM_008644	1
Fer-1-like 3, myoferlin (<i>C. elegans</i>)	AK087302	1.036
testis expressed gene 9	NM_009359	1.09833
Mus musculus zinc finger protein 371 (Zfp371), mRNA [NM_133204]	NM_133204	1.06157
Expressed sequence AI225934	AK045926	1.04593
Open reading frame 19	BC025839	-1.24892
Mus musculus immunoglobulin superfamily, member 1 (Igsf1), transcript variant	NM_177591	1.0574
carboxypeptidase D	NM_007754	1.44605
Mus musculus RIKEN cDNA 2310007A19 gene (2310007A19Rik), mRNA [NM_	NM_025506	-1.09369
Mus musculus ring finger protein 133 (Rnf133), mRNA [NM_198251]	NM_198251	1.09953
pancreatic and duodenal homeobox gene 1	NM_008814	1.05997
Testis specific 10 interacting protein	AK019010	-1.04152
Mus musculus RIKEN cDNA 2810446P07 gene (2810446P07Rik), mRNA [NM_	NM_175187	-1.25878
Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched library	AK042403	1.22609
neurotrophin 3	NM_008742	-1.16591
Mus musculus RIKEN cDNA 1700023O11 gene (1700023O11Rik), mRNA [NM_	NM_029339	-1.03286
RIKEN cDNA 6530406A20 gene	AK087211	1.15027
ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4	NM_009183	-1.38307
Mus musculus RIKEN cDNA 2410003A14 gene (2410003A14Rik), mRNA [XM_	XM_133876	-1.40399
actinin alpha 3	NM_013456	1.02323
Mus musculus RIKEN cDNA 4921506I22 gene (4921506I22Rik), mRNA [NM_0:	NM_025717	-1.00148
OLFACTORY RECEPTOR GA_X6K02T2Q125-47925557-47924616. [Source:SPTREMBL;Acc		1.05496
Mus musculus serine/threonine kinase 22D (spermiogenesis associated) (Stk22	NM_080442	-1.23611
CDNA sequence BC062650	AK030792	1.04011
601221886F1 NCI_CGAP_Lu29 Mus musculus cDNA clone IMAGE:3590924 5'	BE368005	1.27601
palate, lung, and nasal epithelium expressed transcript	NM_011126	1.0343
Unknown		-1.058
Mus musculus proviral integration site 3 (Pim3), mRNA [NM_145478]	NM_145478	-1.01969

RIKEN cDNA 9130221L21 gene	AK086076	1.01675
Mus musculus olfactory receptor 1133 (Olf1133), mRNA [NM_146351]	NM_146351	1.11811
Mus musculus nardilysin, N-arginine dibasic convertase, NRD convertase 1 (Nrdc)	NM_146150	-1.12728
nucleoprotein 50	NM_016714	1.04387
RIKEN cDNA A030012M09 gene	BC019193	1.00359
RIKEN cDNA 4933427I18 gene	AK016954	1.11023
Unknown		1.11531
beta-microseminoprotein	NM_020597	1
Mus musculus RIKEN cDNA 6330509G02 gene (6330509G02Rik), mRNA [NM_172946]	NM_172946	1.08865
RIKEN cDNA 4930557O20 gene	NM_029239	-1.16818
Mus musculus RIKEN cDNA 2610024I03 gene (2610024I03Rik), mRNA [NM_146032]	NM_146032	-1.03682
RIKEN cDNA 1500016F02 gene	BC049852	-1.4633
Sterol regulatory element binding factor 2	AF374267	1.06835
Unknown		1.10516
mb49g07.x1 Soares mouse p3NMF19.5 Mus musculus cDNA clone IMAGE:332 AI414867		1.11335
Unknown		1.74568
Tubulin tyrosine ligase-like family, member 4	AK129075	1.1242
tryptophanyl-tRNA synthetase	NM_011710	1.05754
Dual specificity phosphatase 4	AK085591	1.079
Unknown		-1.00659
Mus musculus hemoglobin, beta adult minor chain (Hbb-b2), mRNA [NM_016956]	NM_016956	1.37414
Mus musculus RIKEN cDNA 4930431B11 gene (4930431B11Rik), mRNA [NM_029434]	NM_029434	1.22578
mitogen-activated protein kinase kinase kinase 14	NM_016896	1.08312
Mus musculus reticulon 4 receptor-like 1 (Rtn4r1), mRNA [NM_177708]	NM_177708	1.34013
olfactory receptor NP_TR6JSE50FPA	NM_203509	-1.04649
Mus musculus cDNA clone IMAGE:4952780.	BC026716	-1.10927
Unknown		1.04986
RIKEN cDNA 1810037C20 gene	AK007715	-1.13537
Synaptotagmin 2	AW122995	-1.33399
Integrin beta 1 binding protein 3	AK009352	1.02481
CDNA sequence BC014805	AJ132857	1.19279
Moloney sarcoma oncogene	NM_020021	-1.05841
cathepsin W	NM_009985	-1.07135
Mus musculus RIKEN cDNA 4632428M11 gene (4632428M11Rik), mRNA [NM_028730]	NM_028730	-1.00687
wingless-related MMTV integration site 3	NM_009521	1.31428
Zinc finger, HIT domain containing 1	AK080799	-1.24704
activin A receptor, type II-like 1	NM_009612	-1.07189
solute carrier family 21 (organic anion transporter), member 13	NM_023718	1.04329
endothelial differentiation, sphingolipid G-protein-coupled receptor, 3	NM_010101	-1.04958
Protein phosphatase 2, regulatory subunit B (B56), gamma isoform	U59418	-1.27276
RIKEN cDNA 1700009N14 gene	AK005799	-1.00146
Mus musculus dopamine receptor D1A (Drd1a), mRNA [NM_010076]	NM_010076	1.08425
OLFACTORY RECEPTOR GA_X6K02T2PMLR-6042130-6041183 (FRAGMENT). [Source:SP]		-1.01113
Ankyrin repeat and SOCS box-containing protein 1	AF155352	1.12942
thromboxane A synthase 1, platelet	NM_011539	-1.18564
Ubiquitination factor E4A, UFD2 homolog (S. cerevisiae)	AK037131	-1.35102
Mus musculus phosphatidylinositol 3 kinase, regulatory subunit, polypeptide 3 (p)	NM_181585	1.06446
Mus musculus open reading frame 63 (ORF63), mRNA [NM_144854]	NM_144854	1.01211
keratin complex 1, acidic, gene 12	NM_010661	1.00078
RIKEN cDNA A130007F10 gene	NM_175539	1.0464
Protein kinase C and casein kinase substrate in neurons 1	BY643365	1.06504
Expressed sequence AW495222	AK046172	1.02372

guanine nucleotide binding protein (G protein), gamma 12	NM_025278	-1.11831
thioredoxin reductase 2	NM_013711	1.13436
RIKEN cDNA A930017K11 gene	BC022685	-1.01879
Mus musculus Rab40c, member RAS oncogene family (Rab40c), mRNA [NM_1	NM_139154	1.06213
Vacuolar protein sorting 24 (yeast)	NM_025783	-1.11019
Unknown		1.29235
Mus musculus dynein, cytoplasmic, light chain 2A (Dncl2a), mRNA [NM_025947	NM_025947	-1.29663
serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 2	NM_011111	-1.28759
interleukin 23, alpha subunit p19	NM_031252	1.23367
Solute carrier family 5 (sodium/glucose cotransporter), member 11	AK008219	1.02949
TAF2 RNA polymerase II, TATA box binding protein (TBP)-associated factor	AK028828	1.04416
RIKEN cDNA 1110037F02 gene	BC028830	1.14536
RIKEN cDNA 2810433K01 gene	NM_025581	-1.03348
Sp2 transcription factor	BC021759	-1.08162
RIKEN cDNA 2410025L10 gene	AK031967	1.0716
Mus musculus slingshot homolog 3 (Drosophila) (Ssh3), mRNA [NM_198113]	NM_198113	1.06658
Scaffold attachment factor B	AK087504	1.30259
Mus musculus farnesyl diphosphate synthetase (Fdps), mRNA [NM_134469]	NM_134469	-1.34236
potassium voltage gated channel, Shab-related subfamily, member 1	NM_008420	1.25477
defensin related cryptdin 4	NM_010039	-1.0578
Unknown		1.05434
B-cell receptor-associated protein 31	NM_012060	-1.07364
B-cell CLL/lymphoma 9	BC019641	-1.17651
Mus musculus RIKEN cDNA C330011K17 gene (C330011K17Rik), mRNA [NM_	NM_177712	-1.35646
Phospholipase C, beta 2	AF022802	1.01612
Baculoviral IAP repeat-containing 7 (livin)	AK053463	1.13059
Wolf-Hirschhorn syndrome candidate 2 (human)	AK019191	-1.23712
ATPase, Ca ⁺⁺ transporting, ubiquitous	NM_016745	1.0459
Mus musculus mRNA for LEF-1S, complete cds.	D16503	1.00942
Glial fibrillary acidic protein	K01347	1.08844
protease (prosome, macropain) 28 subunit, alpha	NM_011189	-1.04466
carbonic anhydrase 1	NM_009799	1.02988
Mus musculus RIKEN cDNA 2610507B11 gene (2610507B11Rik), mRNA [NM_	NM_00100200	1.221
hypothetical gene supported by BC030430	BC030430	1.02476
BMX non-receptor tyrosine kinase	NM_009759	1.01699
DnaJ (Hsp40) homolog, subfamily B, member 12	AB028860	1.09973
RIKEN cDNA 2310004I24 gene	NM_025510	1.11247
frizzled homolog 3 (Drosophila)	NM_021458	-1.05316
Mus musculus pleckstrin and Sec7 domain containing 4 (Psd4), mRNA [NM_17	NM_177611	-1.00008
Brain abundant, membrane attached signal protein 1	AK046868	-1.01651
Mus musculus guanine nucleotide binding protein, alpha z subunit (Gnaz), mRN	NM_010311	1.11729
RIKEN cDNA 2900090M10 gene	AK013832	1.11021
house-keeping protein 1	NM_008249	-1.66613
Enhancer of polycomb homolog 1 (Drosophila)	BC060145	1.03309
Mus musculus RIKEN cDNA 1700064K09 gene (1700064K09Rik), mRNA [NM_	NM_175244	1.23068
RIKEN cDNA 2010002A20 gene	NM_025655	-1.05928
zinc finger homeobox 1a	NM_011546	-1.27226
RIKEN cDNA 1100001D10 gene	BC049187	1.09695
growth factor receptor bound protein 2-associated protein 1	NM_021356	-1.18224
Myosin, heavy polypeptide 10, non-muscle	BC028549	1.0489
Mus musculus COMM domain containing 1 (Commd1), mRNA [NM_144514]	NM_144514	-1.13216
Mus musculus SLAM family member 7 (Slamf7), mRNA [NM_144539]	NM_144539	-1.12539

membrane-spanning 4-domains, subfamily A, member 8	NM_022430	-1.00438
Mus musculus F-box and leucine-rich repeat protein 2 (Fbxl2), mRNA [NM_178624]	NM_178624	-1.01796
opposite strand transcription unit to Stag3	NM_030719	1.13294
Solute carrier family 38, member 2	AK030917	-1.14161
Hypothetical LOC381582	AK005108	-1.26078
RIKEN cDNA 9430037G07 gene	AK034782	1.01044
Unknown		-1.38974
Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4 (Ndu)	NM_010886	-1.43672
RIKEN cDNA 4833418A01 gene	AK081839	-1.14061
diazepam binding inhibitor-like 5	NM_021294	1.04262
Mus musculus cDNA sequence BC015286 (BC015286), mRNA [NM_198171]	NM_198171	1.11833
Mus musculus RIKEN cDNA 5033413H12 gene (5033413H12Rik), mRNA [NM_173015]	NM_173015	-1.14814
Mus musculus RNA binding motif protein 17 (Rbm17), mRNA [NM_152824]	NM_152824	-1.27739
RIKEN cDNA 1600014K23 gene	AK005459	1.0416
ATP-binding cassette, sub-family D (ALD), member 2	BC020388	-1.12114
cadherin 15	NM_007662	1.0104
cAMP responsive element binding protein-like 1	NM_017406	1.08173
testis expressed gene 13	NM_031381	1.06116
Mus musculus olfactory receptor 1416 (Olfr1416), mRNA [NM_147038]	NM_147038	1.03316
selenium binding protein 2	NM_019414	1.15087
DNA segment, Chr 14, University of California at Los Angeles 2	NM_030686	1.08056
SAM domain and HD domain, 1	NM_018851	-1.00172
Mus musculus RIKEN cDNA A430081P20 gene (A430081P20Rik), mRNA [NM_172743]	NM_172743	1.21361
Unknown		1.04407
Mus musculus RIKEN cDNA 4931428L18 gene (4931428L18Rik), mRNA [NM_027637]	NM_027637	1.02249
Mus musculus mitogen activated protein kinase kinase kinase 10 (Map3k10), m	XM_194344	1.21233
ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) 16kD	NM_009729	1.04247
Mus musculus SH3-domain binding protein 4 (Sh3bp4), mRNA [NM_133816]	NM_133816	1.01403
Supervillin	BC025933	1.00822
T-cell acute lymphocytic leukemia 2	NM_009317	1.26798
RIKEN cDNA C030011L09 gene	AK021067	1.0883
Mus musculus neurofibromatosis 1 (Nf1), mRNA [NM_010897]	NM_010897	1.01632
hairy and enhancer of split 7 (Drosophila)	NM_033041	1.09668
Mus musculus placenta-specific 8 (Plac8), mRNA [NM_139198]	NM_139198	-1.08859
Unknown		-1.15512
GTPase, IMAP family member 4	BC005577	-1.09495
GLI-Kruppel family member GLI2	BC031171	-1.0562
Mus musculus RIKEN cDNA 6330587F24 gene (6330587F24Rik), mRNA [NM_172782]	NM_172782	-1.67579
Mus musculus catenin alpha 3 (Catna3), mRNA [NM_177612]	NM_177612	1.05697
Mus musculus zinc finger, FYVE domain containing 19 (Zfyve19), mRNA [NM_028054]	NM_028054	-1.19299
mitochondrial ribosomal protein S14	NM_025474	-1.09367
Mus musculus lymphoid nuclear protein related to AF4-like (Laf4l), mRNA [NM_033565]	NM_033565	-1.74212
Mus musculus cDNA clone IMAGE:5010343, partial cds.	BC071254	1.58585
Solute carrier family 9 (sodium/hydrogen exchanger), isoform 3 regulator 2	NM_023055	1.09787
talin	NM_011602	-1.09662
Mus musculus, clone IMAGE:5367221, mRNA, partial cds	BC027044	-1.00399
neutrophilic granule protein	NM_008694	1.01129
sperm associated antigen 6	NM_015773	-1.02149
Unknown		1.04358
DNA methyltransferase 3A	NM_007872	1.28684
DNA segment, Chr 19, ERATO Doi 721, expressed	AK015468	1.18609
Unknown		1.04091

Mus musculus spondin 1, (f-spondin) extracellular matrix protein (Spon1), mRNA [NM_145584]	NM_145584	-1.21882
hematopoietically expressed homeobox	NM_008245	1.02212
Unknown		-1.11307
RIKEN cDNA 4930556L07 gene	AK016389	-2.37506
Mus musculus mitogen-activated protein kinase kinase kinase 7 interacting protein	NM_138667	-1.1324
Mus musculus RIKEN cDNA 2410091C18 gene (2410091C18Rik), mRNA [NM_144760]	NM_144760	-1.37355
Mus musculus peptidylprolyl isomerase (cyclophilin)-like 3 (Ppil3), mRNA [NM_027351]	NM_027351	1.01563
RIKEN cDNA 1700008O03 gene	AK005784	1.18486
tumor necrosis factor (ligand) superfamily, member 13b	NM_033622	-1.06398
aryl hydrocarbon receptor nuclear translocator 2	NM_007488	1.06091
Acid phosphatase 1, soluble	Y17344	-1.27513
Mus musculus RIKEN cDNA 4930424G05 gene (4930424G05Rik), mRNA [NM_026251]	NM_026251	1.01296
Mus musculus solute carrier family 25 (mitochondrial carrier, glutamate), member 1	NM_026646	1.05737
prothymosin alpha	NM_008972	-1.38727
ubiquitin specific protease 29	NM_021323	1.17199
Mus musculus CASK interacting protein 1 (Caskin1), mRNA [NM_027937]	NM_027937	1.0554
Unknown		1.09584
ribosomal protein L28	NM_009081	-1.13129
tachykinin 1	NM_009311	-1.03975
Mus musculus CCR4 carbon catabolite repression 4-like (S. cerevisiae) (Ccrn4)	NM_009834	-1.22497
Unknown		1.01852
G protein gamma 3 linked gene	NM_008144	1.09567
stimulated by retinoic acid 13	NM_016665	1.14043
Mus musculus olfactory receptor 689 (Olfr689), mRNA [NM_146750]	NM_146750	1.06212
gene rich cluster, C8 gene	NM_013538	1.01463
Unknown		1.021
Solute carrier family 32 (GABA vesicular transporter), member 1	NM_009508	1.12683
Mus musculus RIKEN cDNA 1810048P08 gene (1810048P08Rik), mRNA [NM_133717]	NM_133717	1.02511
RIKEN cDNA 6430529G09 gene	NM_178706	-1.15376
Pleckstrin homology domain containing, family J member 1	AK020621	-1.02983
ADP-ribosylation factor guanine nucleotide-exchange factor 1 (brefeldin A-inhibitor)	BC025221	-1.13767
cytochrome c oxidase, subunit VIIc	NM_007749	-2.02778
RIKEN cDNA 3110009E18 gene	AK014026	-1.00069
wingless-related MMTV integration site 7B	NM_009528	1.12761
BC003770 heat shock protein, 110 kDa {Mus musculus}, complete [TC1048676]		1.09266
Small nuclear ribonucleoprotein D2	BC043014	1.05139
Mus musculus RIKEN cDNA 5730538E15 gene (5730538E15Rik), mRNA [NM_173443]	NM_173443	-1.04584
Mus musculus hect (homologous to the E6-AP (UBE3A) carboxyl terminus) domain	NM_010418	-1.06604
glia maturation factor, gamma	NM_022024	-1.14618
ecotropic viral integration site 1	NM_007963	1.21669
PR domain containing 8	AK019785	1.05291
reticulon 4 receptor	NM_022982	1.32381
general transcription factor IIa, 1 (37kD and 19kD subunits)	NM_031391	1.01691
Ankyrin repeat domain 9	AK032641	-1.03187
OLFACTORY RECEPTOR GA_X54KRFPKG5P-55543875-55542958. [Source:SPTREMBL;Accession:U42384]		1.00321
Mus musculus interferon induced transmembrane protein 1 (Ifitm1), mRNA [NM_026820]	NM_026820	-1.21475
RIKEN cDNA 4931412G03 gene	NM_025741	1.0463
RIKEN cDNA 1110037F02 gene	AK122509	1
homeobox A11	NM_010450	1
Mus musculus RIKEN cDNA 4933425O20 gene (4933425O20Rik), mRNA [NM_025753]	NM_025753	1.00214
Mus musculus fibroblast growth factor inducible gene 15 (FIN15) mRNA, complete [U42384]	U42384	1.05015
Fucosyltransferase 8	NM_016893	-1.25802

t-complex testis expressed 1	NM_009342	1.02612
Mus musculus RIKEN cDNA 6430556C10 gene (6430556C10Rik), mRNA [NM_	NM_178725	-1.06716
Unknown		1.17327
Gene model 604, (NCBI)	AK047543	1.13527
RIKEN cDNA 4933426L22 gene	AK078541	-1.33046
Mus musculus expressed sequence AI429613 (AI429613), mRNA [NM_134000	NM_134000	-1.30675
AGENCOURT_10313088 NIH_MGC_144 Mus musculus cDNA clone IMAGE:6	BU848284	1.12105
Mus musculus protocadherin alpha 11 (Pcdha11), mRNA [NM_009960]	NM_009960	1.05652
Unknown		1.07908
AF036896 special lobe-specific silk protein ssp160A {Chironomus pallidivittatus}, partial (3%) [		1.02526
RIKEN cDNA 4930435G24 gene	NM_022323	-1.09781
Mus musculus FYVE, RhoGEF and PH domain containing 4 (Fgd4), mRNA [NM	NM_139234	-1.02459
F-box protein 30	AK083479	-1.19528
RIKEN cDNA 7030407A21 gene	BC024588	1.07014
lipocalin 7	NM_023476	1.07527
interferon alpha responsive gene	NM_022329	-1.69887
AY220476 VAC14 {Rattus norvegicus}, partial (7%) [TC1049550]		1.03139
Pregnancy specific glycoprotein pseudogene 1	M83348	1.1008
Mus musculus RIKEN cDNA 9330175B10 gene (9330175B10Rik), mRNA [NM_	NM_194351	-1.01959
RIKEN cDNA 4833427B12 gene	AK030758	1.0422
C1q domain containing 1	AK129460	-1.25096
Mus musculus PDZ domain containing 2 (Pdzk2), mRNA [NM_133226]	NM_133226	-1.01064
OLFACTORY RECEPTOR GA_X6K02SYYHDF-1415-2371. [Source:SPTREMBL;Acc:Q7TS30		1.02044
sensitivity to red light reduced homolog (Arabidopsis)	AK012640	-1.00764
H3051C02-5 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H305	BG080228	1.17865
Mus musculus protocadherin gamma subfamily A, 10 (Pcdhga10), mRNA [NM_	(NM_033593	1.03042
Mus musculus golgi phosphoprotein 2 (Golp2), mRNA [NM_027307]	NM_027307	1.32962
Mus musculus cDNA sequence BC088983 (BC088983), mRNA.	XM_356076	-1.27583
Mus musculus olfactory receptor 103 (Olfr103), mRNA [NM_146833]	NM_146833	-1.28429
Unknown		1.01803
microtubule-associated protein tau	NM_010838	-1.00257
Mus musculus Rap guanine nucleotide exchange factor (GEF) 1 (Rapgef1), mR	NM_054050	1.05758
Mus musculus DNA segment, Chr 6, Wayne State University 163, expressed (D	NM_138594	1.05089
A disintegrin-like and metalloprotease (reprolysin type) with thrombospondin typ	AK090358	1
Mus musculus CDP-diacylglycerol synthase 1 (Cds1), mRNA [NM_173370]	NM_173370	-1.14361
Cingulin	BC064474	-1.23377
Unknown		1.11389
cholinergic receptor, nicotinic, alpha polypeptide 1 (muscle)	NM_007389	1.03182
Unknown		1.15198
RIKEN cDNA 4930549C01 gene	NM_026300	-1.23003
histone cell cycle regulation defective interacting protein 5	NM_020045	-1.23377
Mus musculus RIKEN cDNA 1200008A14 gene (1200008A14Rik), mRNA [NM_	NM_028915	-1.22901
Burkitt lymphoma receptor 1	NM_007551	-1.10167
SEC15-like 2 (S. cerevisiae)	AK016259	-1.0586
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 56 (Ddx56), mRNA [NI	NM_026538	-1.03838
Mus musculus zinc finger protein 71, related sequence 1 (Zfp71-rs1), mRNA [NI	NM_145622	-1.24561
RIKEN cDNA 1810045K17 gene	NM_026435	-1.13092
Mus musculus RIKEN cDNA 4932415L06 gene (4932415L06Rik), mRNA [NM_	NM_176972	1.00944
TATA box binding protein (TBP)-associated factor, RNA polymerase II, H, 30 kD	NM_020024	1.15938
Protein kinase C and casein kinase substrate in neurons 3	AK014830	1.06434
RIKEN cDNA 4930548G14 gene	AK016069	1.12656
Mus musculus DNA segment, Chr 12, ERATO Doi 553, expressed (D12Ert	d553 NM_029758	-1.01475

RIKEN cDNA 4921511M17 gene	AK019538	-1.00083
BU592200 AGENCOURT_8788288 NIH_MGC_137 Mus musculus cDNA clone	BU592200	1.10287
RIKEN cDNA 4930553M12 gene	AK016108	1.03075
A kinase (PRKA) anchor protein 10	NM_019921	1.06924
Mus musculus, clone IMAGE:5050186, mRNA, partial cds	BC024408	1.07466
Mus musculus LanC (bacterial lantibiotic synthetase component C)-like 2 (Lancl	NM_133737	1.15299
Mus musculus trace amine-associated receptor 7B (Taar7b), mRNA.	XM_204521	1.02856
Unknown		-1.00269
Mus musculus RIKEN cDNA 1110059P08 gene (1110059P08Rik), mRNA [NM_	NM_025418	-1.72562
Mus musculus olfactory receptor 1360 (Olfr1360), mRNA [NM_146543]	NM_146543	1.17884
RIKEN cDNA 2510049I19 gene	NM_026455	-1.11924
DIX domain containing 1	BC024834	-1.07863
Adaptor-related protein complex AP-4, epsilon 1	BC042530	-1.28271
Receptor tyrosine kinase-like orphan receptor 2	AK021227	1.02139
Inhibitor of Bruton agammaglobulinemia tyrosine kinase	AK129353	-1.25689
RIKEN cDNA 2310005B10 gene	NM_025860	-1.08483
Unknown		1.07849
Mus musculus UBX domain containing 3 (Ubx3), mRNA [NM_178671]	NM_178671	-1.05123
Mus musculus RIKEN cDNA 1200003I07 gene (1200003I07Rik), mRNA [NM_1	NM_181274	-1.19865
Mus musculus RIKEN cDNA 1110027L01 gene (1110027L01Rik), mRNA [NM_	NM_025395	1.04178
Mus musculus clone MBII-52 C/D box snoRNA, partial sequence.	AF357427	-1.03263
phosphatidylethanolamine binding protein	NM_018858	-1.09207
brevican	NM_007529	-1.18056
protocadherin 12	NM_017378	1.1422
RIKEN cDNA 9530058B02 gene	NM_026633	1.04346
Mus musculus zinc finger protein 513 (Zfp513), mRNA [NM_175311]	NM_175311	1.14549
RIKEN cDNA 9130011E15 gene	BC046389	-1.02281
neuronal guanine nucleotide exchange factor	NM_019867	1.02971
faciogenital dysplasia homolog 2 (human)	NM_013710	-1.38133
Fanconi anemia, complementation group E	BC016538	1.00492
Unknown		1.37937
Mus musculus IBR domain containing 2 (Ibrdc2), mRNA [NM_146042]	NM_146042	-1.02927
CEA-related cell adhesion molecule 1	NM_011926	1.15654
Mus musculus olfactory receptor 798 (Olfr798), mRNA [NM_146556]	NM_146556	1.04796
Mus musculus RIKEN cDNA 2310045B01 gene (2310045B01Rik), mRNA [NM_	NM_025538	-1.1052
twist gene homolog, (Drosophila)	NM_011658	1.10803
Mus musculus cDNA sequence BC047207 (BC047207), mRNA [NM_172907]	NM_172907	1.13574
RIKEN cDNA G630039H03 gene	BC031204	1.02477
Mus musculus similar to Zinc finger protein 93 (Zinc finger protein HTF34) (LOC	XM_138680	-1.05703
Mus musculus cDNA sequence BC023488 (BC023488), mRNA [NM_146238]	NM_146238	1.09448
Mus musculus solute carrier family 5 (sodium/glucose cotransporter), member 2	NM_133254	1.01993
Methionine adenosyltransferase II, alpha	CA494605	1.03286
Mus musculus mediator of RNA polymerase II transcription, subunit 6 homolog	(NM_027213	-1.1621
CD24a antigen	NM_009846	-1.51683
Mus musculus dipeptidylpeptidase 3 (Dpp3), mRNA [NM_133803]	NM_133803	-1.30864
Mus musculus RIKEN cDNA 1110004B13 gene (1110004B13Rik), mRNA [NM_	NM_025838	-1.08966
OLFACTORY RECEPTOR GA_X6K02T2PBJ9-5199377-5198367. [Source:SPTREMBL;Acc:Q		1.09233
Mus musculus 0 day neonate lung cDNA, RIKEN full-length enriched library, clo	AK087173	1
Glutamate receptor, metabotropic 6	BC021919	1.00033
SET binding factor 1	AK129485	-1.21046
Mus musculus helicase (DNA) B (Helb), mRNA [NM_080446]	NM_080446	1.01664
tropomyosin 2, beta	NM_009416	1.0973

Mus musculus OG2 homeobox gene (Og2x), mRNA [NM_130869]	NM_130869	1.25247
Mus musculus calcitonin-related polypeptide, beta (Calcb), mRNA [NM_054084]	NM_054084	-1.05133
Unknown		1.05997
Mus musculus brain-specific angiogenesis inhibitor 1-associated protein 2 (Baia)	NM_130862	1.08065
RIKEN cDNA 1700021O21 gene	AK006226	-1.0615
Mus musculus DNA segment, Chr 14, ERATO Doi 436, expressed (D14Ert436)	NM_172599	-1.24659
Mus musculus ankyrin repeat and SOCS box-containing protein 7 (Asb7), mRNA	NM_080443	1.10238
Mus musculus solute carrier family 36 (proton/amino acid symporter), member 4	NM_172289	-1.12646
Mus musculus TAP binding protein-like (Tapbp1), mRNA [NM_145391]	NM_145391	1.01612
BB839079 RIKEN full-length enriched, 8 cells embryo Mus musculus cDNA clone	BB839079	1.12259
Zinc finger, RAN-binding domain containing 3	AK050039	1.06171
similar to hypothetical protein E330023O18	NM_198674	-1.01702
carboxylesterase 1	NM_021456	-1.09
Mus musculus expressed sequence AW125546 (AW125546), mRNA [NM_172566]	NM_172566	1.07183
X-ray repair complementing defective repair in Chinese hamster cells 2	NM_020570	1.25793
homeodomain interacting protein kinase 3	NM_010434	-1.48073
Serine protease inhibitor, Kunitz type 2	BF579147	1.17841
Unknown		1.03436
DNA segment, Chr 4, ERATO Doi 196, expressed	AK089106	1.05219
Mus musculus adult male medulla oblongata cDNA, RIKEN full-length enriched	AK018161	1.07067
Cleavage stimulation factor, 3' pre-RNA subunit 2, tau	BB194766	1.12022
emerin	NM_007927	-1.09585
Unknown		-1.02172
uroporphyrinogen III synthase	NM_009479	-1.06484
trefoil factor 2 (spasmodic protein 1)	NM_009363	1.02229
Mus musculus RIKEN cDNA 5730494M16 gene (5730494M16Rik), mRNA [XM_203706]	XM_203706	-1.02174
Mus musculus cDNA sequence BC027174 (BC027174), mRNA [NM_172260]	NM_172260	1.0296
RIKEN cDNA 1110004E04 gene	NM_028625	1.04868
Fibroblast growth factor homologous factor 2 isoform 1P+1Y'+1V (FHF-2)	AF199608	-1.03141
metallocarboxypeptidase CPX-1	NM_019696	-1.04717
Unknown		1
Mus musculus CCR4-NOT transcription complex, subunit 3 (Cnot3), mRNA [NM_146176]	NM_146176	1.09889
Mus musculus SUMO/sentrin specific protease 5 (Snp5), mRNA [NM_177103]	NM_177103	-1.04461
Unknown		1.14507
Mus musculus RNA (guanine-9-) methyltransferase domain containing 3 (Rg9m)	NM_027266	1.163
Unknown		1.01828
Mus musculus Eph receptor B1 (Ephb1), mRNA [NM_173447]	NM_173447	-1.03698
Mus musculus purinergic receptor P2Y, G-protein coupled 10 (P2ry10), mRNA [NM_172435]	NM_172435	-1.30299
zinc finger protein interacting with K protein 1	NM_009577	-1.05991
Mus musculus nucleolar protein 5A (Nol5a), mRNA [NM_024193]	NM_024193	1.1609
Mus musculus expressed sequence C78409 (C78409), mRNA [NM_177615]	NM_177615	-1.05913
Myocyte enhancer factor 2B	AI451606	1.0165
NRD1_HUMAN Orphan nuclear receptor NR1D1 (V-erbA related protein EAR-1) (Rev- erbA-ald)		1.0714
Mus musculus arginyl-tRNA synthetase (Rars), mRNA [NM_025936]	NM_025936	-1.06052
FYVE, RhoGEF and PH domain containing 5	AK049341	-1.04657
Unknown		1.11051
Trp53 inducible protein 11	BC059041	1.06284
Roundabout homolog 2 (Drosophila)	AK129396	-1.05588
Mus musculus RIKEN cDNA 5430432M24 gene (5430432M24Rik), mRNA [NM_146127]	NM_146127	1.19292
Unknown		1.02982
Mus musculus protein disulfide isomerase-related (Pdir), mRNA [NM_028295]	NM_028295	1.09958
Mus musculus RIKEN cDNA C330046L10 gene (C330046L10Rik), mRNA [NM_198421]	NM_198421	-1.00029

RIKEN cDNA 8030497I03 gene	AK048403	-1.0843
RIKEN cDNA D730048I06 gene	NM_026593	-1.02725
Mus musculus neurexophilin 1 (Nxph1), mRNA [NM_008751]	NM_008751	1.04058
interleukin 6 signal transducer	NM_010560	1.05265
Translin	X81464	-1.00075
Mus musculus claudin 23 (Cldn23), mRNA [NM_027998]	NM_027998	-1.01997
Mus musculus G protein-coupled receptor 22 (Gpr22), mRNA [NM_175191]	NM_175191	1.11522
Unknown		1.08502
RIKEN cDNA A930027G11 gene	AF173359	-1.14883
Unknown		1.15469
RIKEN cDNA 9130230N09 gene	BE648344	1.03162
Mus musculus heterogeneous nuclear ribonucleoprotein methyltransferase-like 3	NM_133740	-1.09877
Myosin, light polypeptide 3	X67685	1.08531
Mus musculus hexokinase 3 (Hk3), mRNA [XM_127381]	XM_127381	1.02447
Mus musculus centrosomal protein 1 (Cep1), mRNA [XM_130200]	XM_130200	-1.04891
guanylate nucleotide binding protein 1	NM_010259	1.12828
Plexin D1	AK129175	1.14294
PHD finger protein 12	AK089226	1.06175
phosphatidylinositol glycan, class O	NM_020035	1.08738
Proteasome (prosome, macropain) subunit, alpha type 4	AK085937	-1.34679
ribosomal protein L6	NM_011290	-1.02018
protein kinase C, beta	NM_008855	1.10072
601333133F2 NCI_CGAP_Mam6 Mus musculus cDNA clone IMAGE:3710481	BE573237	1.20069
RNA polymerase II 3	NM_009090	-1.21716
ninein	NM_008697	-1.21367
Mus musculus RIKEN cDNA D430044G18 gene (D430044G18Rik), mRNA [NM_172628]	NM_172628	-1.10952
Jumonji domain containing 1B	BM945607	-1.63316
Mus musculus eukaryotic translation elongation factor 2 (Eef2), mRNA [NM_007907]	NM_007907	1.16603
Olfactory receptor 53	AF102529	1.03074
RIKEN cDNA 2310068O22 gene	NM_027416	-1.72419
gamma-glutamyl carboxylase	NM_019802	-1.14191
sulfotransferase, hydroxysteroid preferring 2	NM_009286	-1.08618
Mus musculus RIKEN cDNA 0710005M24 gene (0710005M24Rik), mRNA [NM_178631]	NM_178631	1.05052
Adducin 3 (gamma)	AF100425	-1.19944
Mus musculus RIKEN cDNA 2010107E04 gene (2010107E04Rik), mRNA [NM_027360]	NM_027360	1.00453
Mus musculus myosin VIIA and Rab interacting protein (Myrip), mRNA [NM_144557]	NM_144557	-1.16249
DNA segment, Chr 14, ERATO Doi 171, expressed	BG805301	1.10177
aplysia ras-related homolog G (RhoG)	NM_019566	1.10075
ATP-binding cassette, sub-family C (CFTR/MRP), member 12	AK030123	-1.02732
Thyroid hormone receptor associated protein 2	AK088795	1.02113
Mus musculus protocadherin alpha 10 (Pcdha10), mRNA [NM_009961]	NM_009961	1.05189
Mus musculus cleavage and polyadenylation specific factor 1 (Cpsf1), mRNA [NM_053193]	NM_053193	-1.11018
ATP-binding cassette, sub-family D (ALD), member 1	NM_007435	1.2171
RIKEN cDNA 4930403N07 gene	AK015067	1.3608
Unknown		-1.4981
polymerase I and transcript release factor	NM_008986	1.136
Mus musculus RIKEN cDNA 9630058J23 gene (9630058J23Rik), mRNA [NM_146105]	NM_146105	1.05815
Mus musculus RIKEN cDNA 1700051C09 gene (1700051C09Rik), mRNA [NM_026562]	NM_026562	-1.57265
Growth differentiation factor 11	AF092734	-1.26542
Machado-Joseph disease (spinocerebellar ataxia 3, olivopontocerebellar ataxia)	AK043400	1.08921
RIKEN cDNA 1700013L23 gene	BC019967	-1.05248
Unknown		1.15232

Ral GEF with PH domain and SH3 binding motif 1	CA490698	1.1473
RAB GTPase activating protein 1-like	AK039993	1
guanylate cyclase activator 1a (retina)	NM_008189	1.02098
Mus musculus RIKEN cDNA 4933403H06 gene (4933403H06Rik), mRNA [NM_	NM_028938	1.05621
Unknown		1.02297
Mus musculus RIKEN cDNA 5430419M09 gene (5430419M09Rik), mRNA [NM_	NM_178390	1.02393
Mus musculus pregnancy-specific glycoprotein 28 (Psg28), mRNA [NM_054063	NM_054063	-1.15269
AlkB, alkylation repair homolog (E. coli)	AK049549	1.09017
DNA segment, Chr 11, ERATO Doi 498, expressed	AK031672	1.14735
glypican 3	NM_016697	1.1655
Mus musculus M phase phosphoprotein 6 (Mphosph6), mRNA [NM_026758]	NM_026758	-1.25011
RIKEN cDNA 1110063B05 gene	NM_025426	-1.68301
Mus musculus RIKEN cDNA 6230405M12 gene (6230405M12Rik), mRNA [NM_	NM_183310	-1.18542
src family associated phosphoprotein 2	NM_018773	-1.20088
RIKEN cDNA B230206N24 gene	AK045491	1.08133
myosin X	NM_019472	1.0597
Mus musculus RIKEN cDNA 2810457I06 gene (2810457I06Rik), mRNA [NM_1	NM_176860	-1.08394
Mus musculus olfactory receptor 837 (Olfr837), mRNA [NM_146565]	NM_146565	1.04377
Unknown		-1.2537
Unknown		1.00257
vw62g07.x1 Soares_mammary_gland_NMLMG Mus musculus cDNA clone IMA	AI463521	1.15512
neural cell adhesion molecule 2	NM_010954	1.11951
Anterior pharynx defective 1a homolog (C. elegans)	NM_146104	-1.04634
lymphocyte antigen 108	NM_030710	1.05346
peptidyl arginine deiminase, type II	NM_008812	-1.17783
DNA segment, Chr 11, Boehm 181, expressed	X81716	1.11985
RIKEN cDNA 1700112L09 gene	NM_029716	-1.11591
mj80a01.x1 Soares mouse p3NMF19.5 Mus musculus cDNA clone IMAGE:482	AI427529	1.29999
RIKEN cDNA A330009N23 gene	AK038079	1.02412
Mus musculus beta galactoside alpha 2,6 sialyltransferase 1 (St6gal1), mRNA [I	NM_145933	1.09619
Mus musculus RIKEN cDNA D530033C11 gene (D530033C11Rik), mRNA [NM_	NM_030132	1.00434
Mus musculus calcium channel, voltage-dependent, gamma subunit 5 (Cacng5)	NM_080644	-1.11879
phospholamban [mice, cardiac muscle, mRNA, 940 nt].	S46792	-1.25156
arginase type II	NM_009705	-1.2702
ectonucleotide pyrophosphatase/phosphodiesterase 2	NM_015744	-1.12851
fucosyltransferase 2	NM_018876	1.11599
Mus musculus proline-serine-threonine phosphatase-interacting protein 1 (Pstpi	NM_011193	-1.1604
atonal homolog 1 (Drosophila)	NM_007500	1.18467
Mus musculus RIKEN cDNA C130068O12 gene (C130068O12Rik), mRNA [NM_	NM_175456	-1.08437
Mitochondrial ribosomal protein S18C	BC028442	-1.36664
AK122250 mKIAA0337 protein {Mus musculus}, complete [TC1013382]		1.03539
cystatin C	NM_009976	1.05521
Unknown		-1.14018
RIKEN cDNA 4933413G11 gene	BC049724	1.04249
Sortilin-related VPS10 domain containing receptor 2	BG067271	1.06302
ubiquitin-conjugating enzyme E2I	NM_011665	-1.27939
Hypothetical protein D430018P08	AK016466	1.01079
Mus musculus olfactory receptor 251 (Olfr251), mRNA [NM_207553]	NM_207553	1.05289
Mus musculus cartilage homeo protein 1 (Cart1), mRNA [NM_172553]	NM_172553	1.40342
acyl-Coenzyme A thioesterase 2, mitochondrial	NM_019736	-1.57806
RIKEN cDNA 2400004F01 gene	NM_023524	1.07755
RIKEN cDNA 1110021N07 gene	NM_024207	-1.09717

Mus musculus Huntington disease gene homolog (Hdh), mRNA [NM_010414]	NM_010414	1.18802
Unknown		1.00496
similar to bromodomain containing protein 1; BR140-like gene	AK086982	1.71739
hypothetical protein D430013K02	AK084926	-1.03589
Mus musculus DEP domain containing 1 (Depdc1), mRNA [NM_029523]	NM_029523	-1.14804
Unknown		-1.31699
Leucine rich repeat and fibronectin type III domain containing 2	AK017594	-1.07355
5-hydroxytryptamine (serotonin) receptor 1A	U39391	1.21141
Mus musculus solute carrier family 5 (sodium-dependent vitamin transporter), m	NM_177870	1.0484
Mus musculus RIKEN cDNA 0610012D14 gene (0610012D14Rik), mRNA [NM_	NM_026690	-1.13151
Cylindromatosis (turban tumor syndrome)	AK048183	1.02087
elastase 2	NM_007919	1.05148
RIKEN cDNA 4921511C04 gene	AK014863	-1.22559
Expressed sequence AW121567	AK013604	1.03708
tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin)	NM_008764	1.00129
interleukin 12 receptor, beta 2	NM_008354	1.22148
BC025072 inositol polyphosphate-1-phosphatase {Mus musculus}, partial (35%) [TC1060639]		1.27833
Mus musculus RIKEN cDNA A530054K11 gene (A530054K11Rik), mRNA [NM_	NM_183146	-1.10767
Mus musculus RIKEN cDNA 2610110G12 gene (2610110G12Rik), mRNA [NM_	NM_028476	1.15411
Mus musculus RIKEN cDNA C330027C09 gene (C330027C09Rik), mRNA [NM_	NM_172616	-1.03094
Chemokine (C-X-C motif) ligand 12	NM_013655	-1.14819
Activating signal cointegrator 1 complex subunit 1	BC030905	1.00525
Cytochrome P450, family 2, subfamily d, polypeptide 13	AK004933	1.00678
Testis-specific protein, Y-encoded-like 1	AF042180	1.02154
Mus musculus caldesmon 1 (Cald1), mRNA [NM_145575]	NM_145575	-1.04514
UI-M-AH0-acu-g-02-0-UI.s1 NIH_BMAP_MCE Mus musculus cDNA clone UI-M-	AI840030	1.00139
RIKEN cDNA 4922502J04 gene	NM_027609	-1.18689
ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit c (subunit 9)	NM_007506	-1.13475
Unknown		1.03094
zinc finger protein 289	NM_023854	1.24068
Mus musculus U7 snRNP-specific Sm-like protein LSM11 (Lsm11), mRNA [NM_	NM_028185	1.14739
histocompatibility 2, Q region locus 2	NM_010392	1.1469
Unknown		1.06841
synaptotagmin 5	NM_016908	1.06942
Mus musculus growth factor receptor bound protein 2-associated protein 3 (Gab	NM_181584	1.11811
Mus musculus RIKEN cDNA 2010203O07 gene (2010203O07Rik), mRNA [XM_	XM_131409	1.12108
RIKEN cDNA D430025H09 gene	AK085022	1
Unknown		-1.10522
Zinc finger protein 532	AK083001	-1.00379
Unknown		1.03968
RIKEN cDNA 1300003D20 gene	NM_023622	1.46476
Mus musculus tripartite motif-containing 45 (Trim45), mRNA [NM_194343]	NM_194343	1.40381
Mus musculus expressed sequence AI605202 (AI605202), mRNA [NM_207209]	NM_207209	1.15606
Eukaryotic translation initiation factor 2C, 4	AK030018	1.0496
Mus musculus proteolipid protein (myelin) (Plp), mRNA [NM_011123]	NM_011123	-1.01279
Mus musculus RIKEN cDNA 4930435C18 gene (4930435C18Rik), mRNA [NM_	NM_029039	1.14592
Mus musculus aconitase 2, mitochondrial (Aco2), mRNA [NM_080633]	NM_080633	-1.10412
PDZ domain containing 4	AK084004	-1.0421
Unknown		1.0453
MAP kinase-interacting serine/threonine kinase 2	NM_021462	1.13587
tectorin alpha	NM_009347	1.00247
RIKEN cDNA 1500032E05 gene	NM_025448	-1.06179

Mus musculus potassium channel tetramerisation domain containing 9 (Kctd9),	NM_134073	-1.47582
AXL receptor tyrosine kinase	NM_009465	1.04995
cytochrome P450, 21, steroid 21 hydroxylase	NM_009995	1.10782
Cholinergic receptor, nicotinic, alpha polypeptide 5	AK080900	-1.01182
Cadherin 8	BB552737	-1.03715
forkhead box J2	NM_021899	1.1013
Mus musculus MAS-related GPR, member B5 (Mrgprb5), mRNA [NM_207538]	NM_207538	1.00356
RIKEN cDNA 1200014J11 gene	NM_025818	-1.11648
Unknown		1.11459
Active BCR-related gene	AI848869	1.07122
Mus musculus olfactory receptor 301 (Olfr301), mRNA [NM_212436]	NM_212436	1.03669
RIKEN cDNA 1700013N18 gene	NM_028502	-1.14985
adaptor-related protein complex AP-4, mu 1	NM_021392	-1.23935
RIKEN cDNA 4930524E20 gene	AK015883	1.04614
Mus musculus G protein-coupled receptor 128 (Gpr128), mRNA [NM_172825]	NM_172825	1.01187
Neuroepithelial cell transforming gene 1	AK082128	-1.19456
dystrophin, muscular dystrophy	NM_007868	-1.05531
Mus musculus RIKEN cDNA 4933414I15 gene (4933414I15Rik), mRNA [NM_028911]	NM_028911	1.23825
RIKEN cDNA 6720485C15 gene	NM_026551	-1.10456
Mus musculus WD repeat domain 35 (Wdr35), mRNA [NM_172470]	NM_172470	-1.22736
Unknown		1.11411
RIKEN cDNA A330103N21 gene	AK020732	-1.05967
Mus musculus general transcription factor IIIC, polypeptide 4 (Gtf3c4), mRNA [NM_172977]	NM_172977	-1.1883
synaptosomal-associated protein, 23kD	NM_009222	-1.62284
BU592067 AGENCOURT_8813708 NIH_MGC_137 Mus musculus cDNA clone	BU592067	1.24394
Mus musculus olfactory receptor 711 (Olfr711), mRNA [NM_147035]	NM_147035	1.1423
Gene trap locus 7	BC022717	-1.05686
Ubiquitin specific protease 15	CA481501	1.13067
Mus musculus thymine DNA glycosylase (Tdg), mRNA [NM_172552]	NM_172552	-1.14211
OLFACTORY RECEPTOR GA_X5J8B7TRNDT-725-75 (FRAGMENT). [Source:SPTREMBL;A		1.04949
Mus musculus calcium channel, voltage-dependent, beta 4 subunit (Cacnb4), m	NM_146123	1.10689
Plexin B2	BC007481	1.0774
Mus musculus synaptotagmin 14-like (Syt14l), mRNA [NM_172804]	NM_172804	-1.05916
Calmodulin 4	AY293058	-1.44994
Mus musculus RIKEN cDNA E030027H19 gene (E030027H19Rik), mRNA [NM_133974]	NM_133974	1.07511
faciogenital dysplasia homolog	NM_008001	1.19392
protein tyrosine phosphatase, receptor type, A	NM_008980	1.05435
Similar to Nucleoporin 50 kDa (Nuclear pore-associated protein 60 kDa-like) (PFAW492251		1.08765
Unknown		1.01356
Mus musculus lysophospholipase 3 (Lypla3), mRNA [NM_133792]	NM_133792	1.0187
Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched	AK012951	1.07157
Mus musculus RIKEN cDNA 6530413N01 gene (6530413N01Rik), mRNA [NM_026380]	NM_026380	1.26984
RIKEN cDNA 4930403C10 gene	BC042793	-1.22364
RIKEN cDNA 4932701A20 gene	AK016575	1.04386
Mediator of RNA polymerase II transcription, subunit 28 homolog (yeast)	NM_025895	-1.6707
Inositol 1,4,5-trisphosphate 3-kinase B	AK053759	1.0605
Unknown		-1.19424
603297320F1 NCI_CGAP_Mam3 Mus musculus cDNA clone IMAGE:5338013	BI650745	1.03863
RIKEN cDNA D830007B15 gene	AK077061	1.03256
Mus musculus uromodulin (Umod), mRNA [NM_009470]	NM_009470	1.07016
RIKEN cDNA 1700007H16 gene	NM_027945	-1.04482
cytoplasmic polyadenylation element binding protein	NM_007755	-1.01969

Fc receptor, IgG, low affinity IIb	NM_010187	-1.42274
cholinergic receptor, nicotinic, beta polypeptide 2 (neuronal)	NM_009602	1.0881
Mus musculus TatD DNase domain containing 1 (Tatdn1), mRNA [NM_175151]	NM_175151	-1.02262
RIKEN cDNA 1810018L02 gene	NM_025453	1.06745
JAK3_MOUSE Tyrosine-protein kinase JAK3(Janus kinase 3) (JAK-3). [Mouse] {Mus musculus		1.02432
Unknown		1.01957
Sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1	AK003893	1.11888
sarcoglycan, alpha (50kDa dystrophin-associated glycoprotein)	NM_009161	1.25346
Zinc finger protein 36, C3H type-like 2	BG919572	-1.00462
sodium channel, nonvoltage-gated 1 beta	NM_011325	1.11776
GTP binding protein 3	NM_027000	1.02597
Mus musculus solute carrier family 26, member 9 (Slc26a9), mRNA [NM_17724	NM_177243	-1.02844
Damage specific DNA binding protein 2	BC058589	1.07164
Unknown		1.12532
RIKEN cDNA 1700012D14 gene	AK021370	-1.32274
retinaldehyde-binding protein 1	NM_020599	1.24026
UI-M-CC1-azz-h-10-0-UI.s1 NIH_BMAP_Ret1_N Mus musculus cDNA clone UI-	BE953896	-1.09715
cerebellar degeneration-related 2	NM_007672	1.00504
H3051D12-5 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H305	BG080247	1.14634
similar to hypothetical protein FLJ12748	NM_198599	1.02691
RIKEN cDNA 2310002A08 gene	NM_023514	-1.33459
Mus musculus glucosaminyl (N-acetyl) transferase 3, mucin type (Gcnt3), mRN	NM_028087	1.03391
Unknown		1.00645
prostate specific ets transcription factor	NM_013891	1.06189
Unknown		-1.24419
Neuro-oncological ventral antigen 1	AF232828	1.04728
RIKEN cDNA 2610511M02 gene	NM_025595	1.03918
Mus musculus RIKEN cDNA 6330569O16 gene (6330569O16Rik), mRNA [NM_	NM_175235	1.02907
Mus musculus solute carrier family 12, member 6 (Slc12a6), mRNA [NM_13364	NM_133649	-1.87761
teratocarcinoma-derived growth factor	NM_011562	1.12556
Mus musculus RIKEN cDNA 2510009E07 gene (2510009E07Rik), mRNA [NM_	NM_00100188	-1.1011
Mus musculus RIKEN cDNA 2810423G08 gene (2810423G08Rik), mRNA [NM_	NM_028139	-1.09478
numb-like	NM_010950	-1.41657
Mus musculus cDNA sequence BC023823 (BC023823), mRNA [NM_153566]	NM_153566	1.02057
Mus musculus cDNA sequence BC059812 (BC059812), mRNA [NM_172748]	NM_172748	-1.10956
Mitogen-activated protein kinase kinase kinase 3	BC006037	-1.32729
Mus musculus RIKEN cDNA 4933434M16 gene (4933434M16Rik), mRNA [NM_	NM_027720	1.01873
M.musculus nsk1 mRNA for putative receptor tyrosine kinase.	X86367	1.03732
Mus musculus similar to immunoglobulin epsilon (LOC380792), mRNA [XM_35	XM_354702	1.02963
RIKEN cDNA 3110040N11 gene	NM_026077	-1.02102
biglycan	NM_007542	1.09163
Immunoglobulin heavy chain (J558 family)	BC011181	1.22737
WD repeat domain 36	BC021497	-1.19228
hypothetical gene supported by AK078282; AK078855; BC052508	AK076667	1.0356
Mus musculus olfactory receptor 486 (Olfr486), mRNA [NM_146496]	NM_146496	1.03832
Mus musculus UDP-N-acetyl-alpha-D-galactosamine: polypeptide N-acetylgalac	NM_144731	-1.09093
formyl peptide receptor-like 1	NM_008042	1.0756
heparan sulfate 6-O-sulfotransferase 1	NM_015818	1.23625
Mus musculus RIKEN cDNA 5830457O10 gene (5830457O10Rik), mRNA [NM_	NM_145412	1.12777
RIKEN cDNA 3732413I11 gene	AK014408	-1.26963
DNA segment, Chr 11, Brigham & Women's Genetics 0280e expressed	AK048533	1.02504
Protein kinase C, epsilon	NM_011104	1.06532

Ring finger protein 26	BC004739	1.12925
ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminidase	NM_011373	-1.02367
Unknown		1.18235
P glycoprotein 2	NM_008830	-1.04085
nuclear antigen Sp100	NM_013673	-1.26234
RIKEN cDNA 6820424L24 gene	AK078507	-1.25219
Mus musculus 16 days neonate heart cDNA, RIKEN full-length enriched library,	AK085942	1.03888
Unknown		1.06776
Unknown		1.03548
Adenine phosphoribosyl transferase	M11310	1.13598
Mus musculus similar to Tho2 (LOC382210), mRNA [XM_356322]	XM_356322	-1.16526
kallikrein 24	NM_010643	1.09795
Unknown		1.12997
Mus musculus thioredoxin domain containing 3 (spermatzoa) (Txndc3), mRNA	NM_181591	1.01392
Zinc metalloproteinase, STE24 homolog (<i>S. cerevisiae</i>)	AK079998	1.10956
PDZ domain containing, X chromosome	NM_018832	1.09229
RIKEN cDNA 6430548M08 gene	BQ942980	1.11432
prothymosin alpha	NM_008972	-1.41412
RIKEN cDNA 2700062C07 gene	NM_026529	-1.04834
RIKEN cDNA 1110021L09 gene	AK003902	-1.04269
Unknown		1.07111
Mus musculus SH3-domain binding protein 3 (Sh3bp3), mRNA [NM_011743]	NM_011743	-1.25506
laminin receptor 1 (67kD, ribosomal protein SA)	NM_011029	-1.03334
RIKEN cDNA 4930402E16 gene	AK029575	-1.02084
Mus musculus RIKEN cDNA 9930016F01 gene (9930016F01Rik), mRNA [NM_173769]	NM_173769	-1.01786
cytochrome c oxidase, subunit VIIIa	NM_007750	-1.00463
Mus musculus ubiquitin domain containing 1 (Ubtd1), mRNA [NM_145500]	NM_145500	-1.00205
Sulfotransferase family 4A, member 1	AF059257	1.06102
Neurofibromatosis 2	L27105	1.07015
Unknown		1.08624
RIKEN cDNA 6230400D17 gene	AK018074	1.06882
Mus musculus neurolysin (metallopeptidase M3 family) (Nln), mRNA [NM_029447]	NM_029447	1.06083
RIKEN cDNA 1200010B10 gene	NM_027882	1.04726
Unknown		1.06566
Leucine-rich repeat kinase 1	AK051264	1.24063
RIKEN cDNA 1110017D15 gene	AK003742	1.02739
RIKEN cDNA 1300018G05 gene	NM_023348	1.0262
Mus musculus Bcl6 interacting corepressor (Bcor), transcript variant a, mRNA [NM_029510]	NM_029510	-1.00998
Unknown		1.09821
tumor necrosis factor receptor superfamily, member 1a	NM_011609	1.23282
Mus musculus olfactory receptor 845 (Olfr845), mRNA [NM_207145]	NM_207145	1.3079
RIKEN cDNA 6720401G13 gene	AK030946	1.14956
v-ral simian leukemia viral oncogene homolog B (ras related)	NM_022327	1.03403
Tripartite motif-containing 36	AK033754	1.19985
RIKEN cDNA 2310047C04 gene	AK039172	1.05119
Transcribed locus, weakly similar to XP_421844.1 PREDICTED: similar to SLC1A1	AI592309	1.02337
RIKEN cDNA 1110054P19 gene	AK004258	1
Mus musculus diacylglycerol kinase zeta (Dgkz), mRNA [NM_138306]	NM_138306	-1.07868
OLFACTORY RECEPTOR GA_X6K02T2PMLR-6326342-6327313. [Source:SPTREMBL;Acc:G		1
Mus musculus olfactory receptor 894 (Olfr894), mRNA [NM_146868]	NM_146868	1.04252
OLFACTORY RECEPTOR GA_X54KRFPKG5P-55338697-55337768. [Source:SPTREMBL;Ac		1.01562
mitogen-activated protein kinase 8 interacting protein 2	NM_021921	1.04066

OLFACTORY RECEPTOR GA_X6K02T2PSCP-1855511-1856437 (FRAGMENT). [Source:SP		1.02269
Mus musculus protein phosphatase 2A, regulatory subunit B (PR 53) (Ppp2r4), I	NM_138748	1.04302
septin 6	NM_019942	-1.00655
Unknown		-1.07685
Unknown		1.09256
sine oculis-related homeobox 6 homolog (Drosophila)	NM_011384	1.13885
Mus musculus RIKEN cDNA 1500040F11 gene, mRNA (cDNA clone IMAGE:53 BC027809		-1.14739
Mus musculus tumor necrosis factor receptor superfamily, member 26 (Tnfrsf26	NM_175649	1.04081
upregulated during skeletal muscle growth 1	NM_031398	1.00759
potassium voltage-gated channel, Isk-related subfamily, member 1	NM_008424	-1.082
Mus musculus protein-O-mannosyltransferase 1 (Pomt1), mRNA [NM_145145]	NM_145145	1.05223
Nonagouti	L06451	1
OLFACTORY RECEPTOR GA_X6K02T2Q125-49215724-49214792. [Source:SPTREMBL;Acc		-1.00839
Translocated promoter region	AY046504	1.07704
Mus musculus RIKEN cDNA A130092J06 gene (A130092J06Rik), mRNA [NM_	NM_175511	-1.05604
RIKEN cDNA 5830420C20 gene	NM_029502	1.06016
matrilin 1, cartilage matrix protein 1	NM_010769	1.03444
Phospholipase C, beta 4	NM_013829	-1.01995
Mucin 2	AF121215	-1.04031
Molybdenum cofactor synthesis 1	AK014178	1.01341
hydroxysteroid dehydrogenase-1, delta<5>-3-beta	NM_008293	1.06125
Mus musculus olfactory receptor 633 (Olfr633), mRNA [NM_146354]	NM_146354	1.12028
carbonic anhydrase 6	NM_009802	1.04425
gamma-aminobutyric acid (GABA-A) receptor, subunit beta 2	NM_008070	-1.12271
Unknown		1.04056
Mus musculus O-sialoglycoprotein endopeptidase-like 1 (Osgepl1), mRNA [NM_	NM_028091	-1.29217
Oligodendrocyte transcription factor 1	NM_016968	1.09712
septin 1	NM_017461	1.07882
Mus musculus paraneoplastic antigen MA3 (Pnma3), mRNA [NM_153169]	NM_153169	1.14859
Interferon, alpha-inducible protein 27	NM_029803	-1.19118
Mus musculus proline-rich protein BstNI subfamily 1 (Prb1), mRNA [NM_19866	NM_198669	1.00274
Unknown		-1.03369
Zinc finger, CCHC domain containing 11	AK031299	1.05138
Unknown		-1.35823
Mus musculus DNA segment, Chr 10, Wayne State University 52, expressed (D	NM_145422	-1.08275
splicing factor, arginine/serine-rich 4 (SRp75)	NM_020587	1.02435
Mus musculus RIKEN cDNA 4933405O20 gene (4933405O20Rik), mRNA [NM_	NM_172901	1.05407
AT motif binding factor 1	AK020706	-1.0898
Mus musculus translocase of outer mitochondrial membrane 7 homolog (yeast)	NM_025394	-1.0093
Bromodomain containing 8	AK032320	1.00199
Mus musculus cDNA sequence BC055447 (BC055447), mRNA [NM_177460]	NM_177460	-1.26741
Mus musculus arrestin domain containing 3 (Arrdc3), mRNA [NM_178917]	NM_178917	-1.58551
Immunoglobulin heavy chain 6 (heavy chain of IgM)	BC031470	-1.15815
Mus musculus achalasia, adrenocortical insufficiency, alacrimia (Aaas), mRNA [	NM_153416	1.10264
RIKEN cDNA 4933426K21 gene	AK039398	1.19434
Phosphodiesterase 3A, cGMP inhibited	AK044562	-1.00193
Kruppel-like factor 7 (ubiquitous)	NM_033563	1.00817
CDNA sequence BC025076	BC025076	1.15585
olfactory receptor 66	NM_013618	1.09556
Mus musculus beta-1,3-glucuronyltransferase 2 (glucuronosyltransferase S) (B3	NM_172124	1.05903
mitochondrial ribosomal protein L45	NM_025927	1.01293
wingless related MMTV integration site 10a	NM_009518	-1.10285

Zinc finger protein 294	AK036725	1.01781
calmodulin 1	NM_009790	-1.14969
cytochrome c oxidase subunit VIIb	NM_025379	-1.33597
Mus musculus, clone IMAGE:3967634, mRNA	BC035426	1
Transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	BC057668	1.33654
RIKEN cDNA 5730557B15 gene	AK013906	-1.16363
RIKEN cDNA 1100001A21 gene	AK003146	1.13113
ADP-ribosylation factor guanine nucleotide-exchange factor 1(brefeldin A-inhibit	AK085726	-1.03028
Unknown		1.05331
Leucine rich repeat containing 27	BC050816	-1.0494
Mus musculus RIKEN cDNA E130107N23 gene (E130107N23Rik), mRNA [NM_	NM_173038	-1.17192
G protein coupled receptor, family C, group 1, member H	NM_008174	1.13961
OLFACTORY RECEPTOR GA_X6K02T2PBJ9-10942040-10942984. [Source:SPTREMBL;Acc		1.10193
sorting nexin 12	NM_018875	-1.20721
procollagen, type VIII, alpha 1	NM_007739	1.10936
Mus musculus glucocorticoid modulatory element binding protein 2 (Gmeb2), mi	NM_198169	-1.01064
Mus musculus pseudoautosomal GTP binding protein-like, like (Pgbpl), mRNA |	NM_145147	-1.05035
Transcribed locus	BF159941	-1.04432
Mus musculus protocadherin 18 (Pcdh18), mRNA [NM_130448]	NM_130448	-1.50632
Mus musculus RIKEN cDNA D330028D13 gene (D330028D13Rik), mRNA [NM_	NM_172727	-1.35073
Mus musculus copine II (Cpne2), mRNA [NM_153507]	NM_153507	-1.11194
activation-induced cytidine deaminase	NM_009645	1
Tetraspanin 8	AK087696	-1.55474
Eukaryotic translation initiation factor 4 gamma, 3	AK019693	1.08775
Transient receptor potential cation channel, subfamily M, member 3	AK046908	1.08347
pleckstrin 2	NM_013738	-1.03874
G protein-coupled receptor 56	NM_018882	-1.34069
dolichol-phosphate (beta-D) mannosyltransferase 2	NM_010073	-1.00331
CEA-related cell adhesion molecule 9	NM_011927	1.03112
B-cell leukemia/lymphoma 6	NM_009744	-1.05383
gap junction membrane channel protein alpha 1	NM_010288	1.17764
hypothetical protein D430014M15	NM_177764	1.03228
Mus musculus RIKEN cDNA C130067A03 gene (C130067A03Rik), mRNA [NM_	NM_177239	1.06307
Mus musculus olfactory receptor 628 (Olf628), mRNA [NM_147097]	NM_147097	1.2308
inosine 5'-phosphate dehydrogenase 1	NM_011829	1.06303
RAB11 family interacting protein 5 (class I)	AK129230	1.06837
RIKEN cDNA 0610012J02 gene	NM_023805	1.22722
Vacuolar protein sorting 13A (yeast)	BC027255	1.04253
Mus musculus RIKEN cDNA A730011O11 gene (A730011O11Rik), mRNA [NM_	NM_144818	1.10314
Mus musculus expressed sequence AL022610 (AL022610), mRNA [NM_13394	NM_133947	-1.4828
Mus musculus RIKEN cDNA 5830482G23 gene (5830482G23Rik), mRNA [NM_	NM_152822	1.06335
Unknown		-1.21867
ADAMTS-like 1	AK045085	1.1465
Mus musculus similar to tripin (LOC244495), mRNA [XM_146372]	XM_146372	-1.01869
Mus musculus RIKEN cDNA 2700063A19 gene (2700063A19Rik), mRNA [NM_	NM_197996	-1.14615
Mus musculus CDP-diacylglycerol synthase (phosphatidate cytidyltransferase)	NM_138651	-1.12335
Unknown		1.03984
Armadillo repeat containing 4	AK015498	-1.22083
heterogeneous nuclear ribonucleoprotein D	NM_007516	-1.09921
defensin related cryptdin 3	NM_007850	1.12465
Mus musculus procollagen, type IV, alpha 5 (Col4a5), mRNA [NM_007736]	NM_007736	1.02907
histocompatibility 2, class II antigen E beta	NM_010382	1.18561

Unknown		-1.01424
ADP-ribosyltransferase 2a	NM_007490	1.24332
MOC-31 immunoglobulin V-region light chain	M92328	1.02102
P53-associated parkin-like cytoplasmic protein	AK039107	-1.02546
Ethanolamine kinase 1	AK033268	1.0418
DNA segment, Chr 10, Wayne State University 93, expressed	NM_033072	1.20627
MRV integration site 1	NM_010826	1.05005
RIKEN cDNA 2210417D09 gene	NM_025620	-1.08977
Zinc finger protein 238	NM_013915	-1.44073
Mus musculus testis protein TEX17 (Tex17) mRNA, complete cds.	AF285579	1.29619
DnaJ (Hsp40) homolog, subfamily C, member 2	NM_009584	-1.36562
Mus musculus RIKEN cDNA 2810432D09 gene (2810432D09Rik), mRNA [NM_	NM_027278	-1.11606
M.musculus tex23 mRNA (5'region).	X80424	1.04753
RIKEN cDNA 1500031K13 gene	NM_026908	-1.10226
RIKEN cDNA 2610529C04 gene	NM_025952	1.03104
Socs-5	NM_019654	1.00136
Mus musculus pyruvate dehydrogenase complex, component X (Pdhx), mRNA |	NM_175094	-1.33177
elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 3	NM_007703	-1.04073
goosecoid	NM_010351	1.28725
defensin beta 2	NM_010030	1.09261
Unknown		-1.22848
brain protein I3	NM_018772	-1.07324
RIKEN cDNA 1700095G12 gene	AK007080	1.03429
forkhead box A3	NM_008260	-1.05809
Mus musculus procollagen, type IX, alpha 3 (Col9a3), mRNA [NM_009936]	NM_009936	1.11455
SRY-box containing gene 11	NM_009234	-1.17482
Mus musculus camello-like 2 (Cml2), mRNA [NM_053096]	NM_053096	1.14035
Ubiquitin specific protease 33	AK082251	1
Mus musculus CD 81 antigen (Cd81), mRNA [NM_133655]	NM_133655	-1.09893
Mus musculus RIKEN cDNA B430104H02 gene (B430104H02Rik), mRNA [NM_	NM_026568	-1.18287
Unknown		1.12715
Mus musculus transcription complex subunit NF-ATc4 mRNA, complete cds.	AF283284	1.00047
Expressed sequence AL024069	BC054112	1.16722
Protein kinase, lysine deficient 4	AK008047	-1.01549
Mus musculus EGF-like-domain, multiple 5 (Egfl5), mRNA [NM_172694]	NM_172694	1.11167
Mus musculus clone MBII-407 C/D box snoRNA, partial sequence.	AF357361	-1.01765
Unknown		1.06835
AF233645 cytochrome P450 CYP4F15 {Mus musculus}, partial (9%) [TC1082914]		-1.04043
Mus musculus COX10 homolog, cytochrome c oxidase assembly protein, heme	NM_178379	1.0305
RIKEN cDNA 2600015J22 gene	NM_025994	-1.06228
RIKEN cDNA 1110021D01 gene	NM_025387	-1.32418
Mus musculus death associated protein kinase 1 (Dapk1), mRNA [NM_029653]	NM_029653	1.15051
Mus musculus hypothetical protein F730005G13 (F730005G13), mRNA [XM_35	XM_359330	1.09075
signal transducer and activator of transcription 1	NM_009283	1.05302
RIKEN cDNA 1700125H20 gene	AK007281	1.08118
Mus musculus Kv channel-interacting protein 2 (Kcnp2), mRNA [NM_145703]	NM_145703	-1.07432
Testis expressed gene 2	X99253	-1.02757
RIKEN cDNA 9030416F12 gene	NM_026490	1.05124
Transcribed locus, weakly similar to XP_545434.1 PREDICTED: similar to olfact	CB172906	-1.04942
Mus musculus RIKEN cDNA 1700127D06 gene (1700127D06Rik), mRNA [NM_	NM_029831	-1.06687
Unknown		-1.07854
caspase 9	NM_015733	1.02066

RIKEN cDNA 4930402K13 gene	AK015052	-1.01175
Olfactory receptor 198 neuronatin	CB173792	1.02418
RIKEN cDNA 1700067A10 gene	NM_010923	-1.04893
dishevelled 3, dsh homolog (Drosophila)	BC021314	-1.31535
Unknown	NM_007889	1.05398
protein phosphatase 4, catalytic subunit		1.10273
RIKEN cDNA 0910001L24 gene	NM_019674	1.06335
Histocompatibility 2, D region locus 1	NM_022419	-1.10733
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 1	AK017289	1.00072
RIKEN cDNA 2610507B11 gene	NM_016888	1.05222
NIMA (never in mitosis gene a)-related expressed kinase 2	X81632	1.16497
RIKEN cDNA 3830408C21 gene	NM_010892	-1.07253
Mus musculus nuclear pore membrane protein 121 (Pom121), mRNA [NM_148932]	AK014423	1.11893
Trinucleotide repeat containing 15	NM_148932	1.01766
ferritin light chain 2	AK122337	-1.0537
Unknown	NM_008049	1.01312
Mus musculus DNA segment, human DXS9928E (D0HXS9928E), mRNA [NM_138607]		1.07819
Mus musculus endonuclease G-like 1 (Endog1), mRNA [NM_172456]	NM_138607	-1.33946
Mus musculus albumin 1 (Alb1), mRNA [NM_009654]	NM_172456	1.01217
RIKEN cDNA 1810006K23 gene	NM_009654	1.10258
polymerase, gamma 2	AY523601	-1.32411
Mus musculus CGG triplet repeat binding protein 1 (Cggbp1), mRNA [NM_178647]	NM_015810	1.0087
Mus musculus olfactory receptor 148 (Olfr148), mRNA [NM_146505]	NM_178647	-1.13223
RIKEN cDNA A030007E19 gene	NM_146505	-1.00207
OLFACTORY RECEPTOR GA_X6K02T2PBJ9-7361631-7360711 (FRAGMENT). [Source:SPT]	AK020699	1.11768
Ribosomal protein S28		1.11371
tumor necrosis factor (ligand) superfamily, member 11	AK002919	-1.08473
Mus musculus vacuolar protein sorting 18 (yeast) (Vps18), mRNA [NM_172269]	NM_011613	1.48696
Mus musculus olfactory receptor 42 (Olfr42), mRNA [NM_010984]	NM_172269	1.27656
methyl-CpG binding domain protein 4	NM_010984	1.09712
Dual specificity phosphatase 4	NM_010774	1.00577
discs, large homolog 1 (Drosophila)	AK012530	-1.25711
solute carrier family 12, member 7	NM_007862	1.03354
RIKEN cDNA A830023I12 gene	NM_011390	-1.07333
RIKEN cDNA 0610006H08 gene	AK043719	1.0297
RIKEN cDNA 1700066J24 gene	NM_025314	-1.12205
Trafficking protein particle complex 1	AK006904	-1.17908
Mus musculus pantothenate kinase 3 (Pank3), mRNA [NM_145962]	CA480500	-1.03392
Mus musculus chemokine (C-C motif) ligand 7 (Ccl7), mRNA [NM_013654]	NM_145962	1.0295
POU domain, class 3, transcription factor 1	NM_013654	1.18134
ligase III, DNA, ATP-dependent	NM_011141	1.03589
Target of myb1-like 2 (chicken)	NM_010716	1.01443
RIKEN cDNA 1700040F17 gene	BC062947	1.02774
Mus musculus RIKEN cDNA 2310037K05 gene (2310037K05Rik), mRNA [NM_029613]	AK006654	1.07974
jerky	NM_029613	-1.14915
Ficolin B	NM_008415	1.0077
Cathepsin Q	AK010913	1.06624
Elongation factor RNA polymerase II 2	AK005416	1.06407
fucosyltransferase 4	BC006925	1.01754
Gardner-Rasheed feline sarcoma viral (Fgr) oncogene homolog	NM_010242	1.03027
dystrobrevin, beta	NM_010208	1.0126
	NM_007886	-1.16431

LIM homeobox protein 6	NM_008500	1.25406
RIKEN cDNA 2900056L01 gene	AI587890	-1.00541
Mus musculus olfactory receptor 460 (Olfr460), mRNA [NM_146383]	NM_146383	1.12944
UI-M-BH0-ajo-d-10-0-UI.s1 NIH_BMAP_M_S1 Mus musculus cDNA clone UI-M	AI852371	-1.03403
RIKEN cDNA 2200008F12 gene	NM_025622	1.08501
Pbx/knotted 1 homeobox	NM_016670	-1.08158
guanine nucleotide binding protein (G protein), gamma 4 subunit	NM_010317	1.07088
gastrin	NM_010257	1.02865
Unknown		1.02495
RIKEN cDNA 1300018P11 gene	NM_025829	-1.05575
Phosphatidic acid phosphatase type 2B	AK003390	-2.02619
Mus musculus orthodenticle homolog 2 (Drosophila) (Otx2), mRNA [NM_14484	NM_144841	1.0022
Mus musculus RIKEN cDNA A930025J12 gene (A930025J12Rik), mRNA [NM_	NM_173734	1.11946
AF465729 cyclin fold protein 1 variant b {Homo sapiens}, partial (83%) [TC949982]		-1.11473
Mus musculus RIKEN cDNA 1110054N06 gene (1110054N06Rik), mRNA [NM_	NM_175134	1.05659
DNA segment, Chr 17, human D6S56E 2	NM_030597	-1.23344
Mediator of RNA polymerase II transcription, subunit 25 homolog (yeast)	AK090026	1.03847
lysyl oxidase-like 3	NM_013586	1.16747
Mus musculus olfactory receptor 19 (Olfr19), mRNA [NM_146335]	NM_146335	1.02004
Mus musculus glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (Gcnt	NM_133219	-1.06762
protein kinase C and casein kinase substrate in neurons 2	NM_011862	1.05342
RAB6, member RAS oncogene family	AB041575	-1.00471
uncoupling protein 2, mitochondrial	NM_011671	1.23738
RNA binding motif protein, Y chromosome, family 1, member A1	NM_011253	1.10567
zinc finger protein 202	NM_030713	-1.03033
proteinase 3	NM_011178	1.15429
Mus musculus olfactory receptor 1502 (Olfr1502), mRNA [NM_146797]	NM_146797	-1.00103
Mus musculus RIKEN cDNA F630045L20 gene (F630045L20Rik), mRNA [NM_	NM_175034	1.02983
RIKEN cDNA 2310002J21 gene	BC037041	-1.24596
Mus musculus RIKEN cDNA 9530080O11 gene (9530080O11Rik), mRNA [NM_	NM_175680	1.0265
Mus musculus adult male corpora quadrigemina cDNA, RIKEN full-length enrich	AK045374	-1.15376
suppression of tumorigenicity 14 (colon carcinoma)	NM_011176	-1.09098
ubiquitin specific protease 2	NM_016808	-1.08108
hypothetical protein A730098P15	NM_177589	1.11473
Unknown		1.13564
guanylate cyclase activator 2b (retina)	NM_008191	1.1241
Mus musculus similar to Tho2 (LOC243171), mRNA [XM_144450]	XM_144450	-1.0988
Synapsin II	BC066004	-1.00745
Mus musculus olfactory receptor 1239 (Olfr1239), mRNA [NM_146970]	NM_146970	-1.04133
Mus musculus calmodulin-like 4 (Calml4), mRNA [NM_138304]	NM_138304	-1.20702
Protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoforr	BC065100	-1.19023
Mus musculus carbonic anhydrase 12 (Car12), mRNA [NM_178396]	NM_178396	-1.01474
globin inducing factor, fetal	NM_019683	-1.19618
Mus musculus eukaryotic translation initiation factor 3, subunit 6 (Eif3s6), mRNA	NM_008388	-1.27013
Mus musculus galactokinase 2 (Galk2), mRNA [NM_175154]	NM_175154	1.19466
Expressed sequence C77080	AK129382	1.08506
Mus musculus Dr1 associated protein 1 (negative cofactor 2 alpha) (Drap1), mRN	NM_024176	-1.06354
Mus musculus RIKEN cDNA 4930518C23 gene (4930518C23Rik), mRNA [NM_	NM_175670	1.08895
Apolipoprotein B	BC038263	-1.26902
Unknown		-1.01188
E26 avian leukemia oncogene 2, 3' domain	NM_011809	1.1213
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 (Ddx58), mRNA [NI	NM_172689	1.20121

Immunoglobulin lambda-like polypeptide 1	M30387	1.03028
Mus musculus potassium voltage-gated channel, subfamily Q, member 2 (Kcnq; XM_358348		-1.01152
Mus musculus similar to histocompatibility antigen 60 (LOC237335), mRNA [XM_136972		-1.05888
protein phosphatase 1, catalytic subunit, gamma isoform	NM_013636	-1.18312
Dipeptidylpeptidase 4	X58384	-1.50574
RIKEN cDNA 4921513D09 gene	AK014876	-1.07026
RIKEN cDNA 2200008B06 gene	NM_025984	-1.04013
TBC1 domain family, member 5	AK005461	1
Mus musculus RIKEN cDNA 6430517E21 gene (6430517E21Rik), mRNA [NM_0207583		1.02692
Era (G-protein)-like 1 (E. coli)	NM_022313	1.17755
frizzled homolog 1, (Drosophila)	NM_021457	1.01275
RIKEN cDNA 1700067A10 gene	BC067046	1.06788
Mus musculus protocadherin beta 11 (Pcdhb11), mRNA [NM_053136]	NM_053136	-1.00441
Mus musculus RIKEN cDNA 4932416A11 gene (4932416A11Rik), mRNA [NM_0147776		1.0401
Ribosomal protein L9	AK012331	-1.2345
RIKEN cDNA 4930481B07 gene	AK015605	1.00655
Mus musculus RIKEN cDNA 2310042L06 gene (2310042L06Rik), mRNA [NM_0172428		1.10816
RIKEN cDNA 2700086I23 gene	NM_026027	1.21388
cAMP inducible gene 1	NM_023044	1.07319
atonal homolog 4 (Drosophila)	NM_009718	1.11134
RIKEN cDNA 5430427O21 gene	AK017352	1.10066
contactin 1	NM_007727	1.10323
Neighbor of Punc E11	NM_020043	-1.0664
ui90d03.x1 Sugano mouse liver mlia Mus musculus cDNA clone IMAGE:188966	AI255307	-1.03837
chloride channel 3	NM_007711	1.08113
delta-like 3 homolog (Drosophila)	NM_007866	1.28853
RIKEN cDNA 2310039D06 gene	NM_025606	-1.09925
Spi-B transcription factor (Spi-1/PU.1 related)	U87620	-1.13017
ribosomal protein S15	NM_009091	-1.34574
Mus musculus RIKEN cDNA 0610009K11 gene (0610009K11Rik), mRNA [NM_01026689		-1.11221
Mus musculus olfactory receptor 47 (Olfr47), mRNA [NM_146370]	NM_146370	1.01548
cat eye syndrome chromosome region, candidate 6 homolog (human)	NM_033567	1.23491
Mus musculus endothelial differentiation, sphingolipid G-protein-coupled receptor	NM_053190	1.01493
Mus musculus RIKEN cDNA 2310001H12 gene (2310001H12Rik), mRNA [NM_0145563		-1.55155
Mus musculus RIKEN cDNA 4933426M11 gene (4933426M11Rik), mRNA [NM_0178682		-1.07
Mus musculus potassium channel, subfamily V, member 1 (Kcnv1), mRNA [NM_01026200		1.0258
Mus musculus similar to monoclonal antibody kappa light chain (LOC232060), n	XM_132608	-1.05324
Nicotinamide nucleotide adenylyltransferase 2	NM_175460	1.03051
angiogenin related protein	NM_007449	-1.03553
Vacuolar protein sorting 11 (yeast)	BC016258	-1.05968
Unknown		1.05971
Unknown		-1.13163
Mus musculus RIKEN cDNA 1700001E04 gene (1700001E04Rik), mRNA [NM_01029288		-1.12026
brain protein 17	AK009545	-1.0538
Regulating synaptic membrane exocytosis 3	AK122226	1.02662
mitogen activated protein kinase kinase kinase 2	NM_009006	1.18124
ub73g11.x1 Soares_mammary_gland_NMLMG Mus musculus cDNA clone IMA	AI462521	-1.01295
Mus musculus RIKEN cDNA 5330440M15 gene (5330440M15Rik), mRNA [NM_01029868		-1.49199
Unc-51 like kinase 1 (C. elegans)	NM_009469	1.09884
Unknown		-1.01979
protein kinase C, lamda	NM_008857	-1.2442
Unknown		1.10515

RIKEN cDNA 4931418L13 gene	BY716135	-1.11969
H3066G11-3 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3066G11-3	BG068554	1.11008
crystallin, beta A2	NM_021541	-1.18731
Unknown		1.01182
Unknown		1.01663
rho GTPase activating protein 5	NM_009706	1.00272
Cell division cycle 40 homolog (yeast)	AK004569	-1.21615
Mus musculus synaptonemal complex protein 1 (Sycp1), mRNA [NM_011516]	NM_011516	1.00964
Transmembrane protein 46	NM_145463	-1.06459
CDNA sequence BC064078	BF138688	1.02915
RIKEN cDNA 3110039B05 gene	NM_020027	1.0508
Mus musculus G protein-coupled receptor 82 (Gpr82), mRNA [NM_175669]	NM_175669	1
Mus musculus RIKEN cDNA 1110018G07 gene (1110018G07Rik), mRNA [NM_178065]	NM_178065	-1.00896
RIKEN cDNA 9030227G01 gene	AK033493	1.12123
phosphoenolpyruvate carboxykinase 1, cytosolic	NM_011044	1.05219
Dishevelled associated activator of morphogenesis 2	AK122266	1.13981
Mus musculus thyroid hormone receptor interactor 10 (Trip10), mRNA [NM_134125]	NM_134125	-1.05354
Mus musculus RIKEN cDNA C530028O21 gene (C530028O21Rik), mRNA [NM_175696]	NM_175696	1.1207
nephroblastoma overexpressed gene	NM_010930	-1.0155
tumor necrosis factor receptor superfamily, member 1a-like 2	NM_023680	1.07428
Protein phosphatase 1A, magnesium dependent, alpha isoform	NM_008910	-1.15897
ribosomal protein L37a	NM_009084	1.00257
hypothetical protein, MGC: 7473	NM_024472	1.02223
ariadne homolog 2 (Drosophila)	NM_011790	-1.15024
Mus musculus RIKEN cDNA 0610033E06 gene (0610033E06Rik), mRNA [NM_053215]	NM_053215	-1.10708
Mus musculus olfactory receptor 32 (Olfr32), mRNA [NM_010980]	NM_010980	1.04576
ligand of numb-protein X	NM_010727	-1.167
Cytochrome P450, family 2, subfamily u, polypeptide 1	AK041477	1.05809
Mus musculus RIKEN cDNA 2410017P07 gene (2410017P07Rik), mRNA [NM_026643]	NM_026643	1.06447
RIKEN cDNA 4930533L02 gene	AK015957	1.14415
Expressed sequence AI597468	BI686611	1.0103
BY715230 RIKEN full-length enriched, adult male testis Mus musculus cDNA clone BY715230	BY715230	1.02499
Mus musculus DNA segment, Chr 14, ERATO Doi 171, expressed (D14Ert171)	NM_177814	-1.04043
nucleosome assembly protein 1-like 4	NM_008672	1.00809
insulin-like growth factor binding protein, acid labile subunit	NM_008340	1.28726
RIKEN cDNA 2310004L02 gene	NM_025504	1.02905
Tial1 cytotoxic granule-associated RNA-binding protein-like 1	NM_009383	-1.56332
RIKEN cDNA C330021A05 gene	BC051140	1.03377
suppressor of Ty 16 homolog (S.cerevisiae)	NM_033618	1.20783
Elongation factor Tu GTP binding domain containing 1	AK049698	1.16943
Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, clone AK047837	AK047837	-1.01424
RIKEN cDNA A230048G03 gene	AK079542	-1.00948
Mus musculus aquarius (Aqr), mRNA [NM_009702]	NM_009702	-1.06671
Mus musculus poly (ADP-ribose) polymerase 2 (Parp2) gene, complete cds.	AF191547	1.03213
Mus musculus erythropoietin (Epo), mRNA [NM_007942]	NM_007942	1.002
Fucosyltransferase 11	AK046461	-1.02315
Mus musculus ubiquitin specific protease 38 (Usp38), mRNA [NM_027554]	NM_027554	-1.13572
RIKEN cDNA 4930518F22 gene	AK077946	1.06848
Mus musculus arginine-rich, mutated in early stage tumors (Armet), mRNA [NM_029103]	NM_029103	-1.146
prolyl endopeptidase	NM_011156	-1.06896
MYB binding protein (P160) 1a	NM_016776	-1.02184
Mus musculus RIKEN cDNA 1600015H20 gene (1600015H20Rik), mRNA [NM_024237]	NM_024237	1.06504

RIKEN cDNA 4921533L14 gene	AK034175	-1.05982
H3053B05-3 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H305BG067324		-1.11506
Unknown		1.08239
Expressed sequence AW554918	BC066089	1.27278
Mus musculus RIKEN cDNA 5730445M16 gene (5730445M16Rik), mRNA [XM_XM_134422		1.08691
Unknown		-1.04977
histidine ammonia lyase	NM_010401	1.08566
tachykinin receptor 2	NM_009314	1.02176
RIKEN cDNA 9030612M13 gene	AK122579	-1.06054
Mus musculus DNA cross-link repair 1C, PSO2 homolog (S. cerevisiae) (Dclre1	NM_175683	-1.00164
tropomodulin 1	NM_021883	-1.04514
pyrimidinergic receptor P2Y, G-protein coupled, 4	NM_020621	1.02345
Unknown		1.01926
Mus musculus RIKEN cDNA C530050O22 gene (C530050O22Rik), mRNA [NM NM_172871		-1.06806
Unknown		-1.10455
Mus musculus RAB21, member RAS oncogene family (Rab21), mRNA [NM_02	NM_024454	-1.12405
RIKEN cDNA 1110008J20 gene	NM_020625	1.18114
RIKEN cDNA 1300003F06 gene	NM_026389	1.00271
Unknown		1.06292
RIKEN cDNA D630041K24 gene	AB093278	-1.11243
Lysozyme-like 6	BC048617	1.11041
heparan sulfate (glucosamine) 3-O-sulfotransferase 1	NM_010474	-1.24771
Expressed sequence AA536749	AK053061	1
Mus musculus solute carrier family 31, member 1 (Slc31a1), mRNA [NM_17509	NM_175090	1.01945
Mus musculus RIKEN cDNA 2310026J01 gene (2310026J01Rik), mRNA [NM_1	NM_177845	1.06872
ubiquitination factor E4B (homologous to yeast UFD2)	NM_022022	1.06163
Mus musculus cDNA sequence BC011487 (BC011487), mRNA [NM_146174]	NM_146174	-1.01477
calcium/calmodulin-dependent protein kinase IV	NM_009793	1.06253
RIKEN cDNA 1300012G16 gene	NM_023625	-1.0915
nuclear protein in testis	NM_172521	1.02024
vu57f08.r1 Soares_mammary_gland_NbMMG Mus musculus cDNA clone IMAG	AA690826	-1.04944
IQ motif containing C	BC026978	-1.07351
Mus musculus RIKEN cDNA 4930488L10 gene (4930488L10Rik), mRNA [NM_(	NM_028127	-1.0089
Polymerase (RNA) III (DNA directed) polypeptide G like	NM_027241	-1.00031
microrchidia	NM_010816	-1.12476
Mus musculus olfactory receptor 1316 (Olfr1316), mRNA [NM_146742]	NM_146742	-1.03484
OLFACTORY RECEPTOR GA_X6K02T2Q125-49542541-49541597. [Source:SPTREMBL;Acc		1.03192
RIKEN cDNA 5730455A04 gene	AK077577	-1.04113
Mus musculus olfactory receptor 1303 (Olfr1303), mRNA [NM_146402]	NM_146402	1.05732
CD2 antigen	NM_013486	-1.04984
Glutamate receptor, metabotropic 7	AK047733	1.07113
RIKEN cDNA 1700041E20 gene	AK006670	1.07494
integrin alpha 5 (fibronectin receptor alpha)	NM_010577	1.06879
Mus musculus component of oligomeric golgi complex 3 (Cog3), mRNA [NM_17	NM_177381	-1.09306
vw56f01.x1 Soares_mammary_gland_NMLMG Mus musculus cDNA clone IMA	AI627018	1.103
Mus musculus RIKEN cDNA 2410018G23 gene (2410018G23Rik), mRNA [NM_	NM_027194	-1.49667
Neuropilin (NRP) and tolloid (TLL)-like 2	AK083512	1.05745
RIKEN cDNA 9430051O21 gene	NM_026821	-1.024
Unc-51 like kinase 2 (C. elegans)	NM_013881	-1.12363
PTK2 protein tyrosine kinase 2	NM_007982	-1.37998
keratin-associated protein 5-1	NM_015808	1.0669
Mus musculus RIKEN cDNA 2810421I24 gene (2810421I24Rik), mRNA [NM_1	NM_172422	-1.04516

CDNA sequence BC054822	BC025229	-1.0173
glutamine fructose-6-phosphate transaminase 1	NM_013528	-1.07937
RIKEN cDNA D130067I03 gene	AK051714	-1.01116
Unknown		1.15121
Mus musculus histone 1, H4h (Hist1h4h), mRNA [NM_153173]	NM_153173	1.07536
Mus musculus whn-dependent transcript 3 (Wdt3-pending), mRNA [XM_282971XM_282971		-1
RIKEN cDNA 4933415F23 gene	NM_025746	1
Mus musculus F-box only protein 23 (Fbxo23), mRNA [NM_028841]	NM_028841	-1.06957
ZINC FINGER PROTEIN 263; KRUPPEL-ASSOCIATED BOX-ZINC FINGER PROTEIN NT2. [		1.06199
Unknown		1.08304
A kinase anchor protein 7	NM_018747	-1.03464
Mus musculus translocating chain-associating membrane protein 1 (Tram1), mF	NM_028173	-1.3267
SKI-like	BC004805	-1.26043
Expressed sequence AW536275	AW536275	-1.01812
Mus musculus expressed sequence AW742319 (AW742319), mRNA [NM_0213	NM_021345	1.0547
Basic transcription element binding protein 1	AK009928	-1.3
Membrane-associated ring finger (C3HC4) 7	NM_020575	-1.41368
Enoyl Coenzyme A hydratase domain containing 1	AW556961	1.01343
kallikrein binding protein	NM_008458	-1.0332
Membrane-associated ring finger (C3HC4) 6	NM_172606	-1.04591
methyltransferase-like 1 (S. cerevisiae)	NM_010792	1.07024
RIKEN cDNA 4921507L20 gene	AK014837	-1.02116
RIKEN cDNA 1300006E06 gene	NM_029562	1.01209
Mus musculus RIKEN cDNA 2610040C18 gene (2610040C18Rik), mRNA [NM_	NM_027263	-1.06169
phosphatidylinositol transfer protein, beta	NM_019640	-1.01453
Unknown		1.03552
Ets homologous factor	NM_007914	1.05782
Unknown		-1.14708
Titin	AK009648	-1.06402
RIKEN cDNA 1700023I07 gene	AK006280	-1.62367
Mus musculus RIKEN cDNA 5330414O08 gene (5330414O08Rik), mRNA [NM_	NM_183270	1
Mus musculus calpain 9 (nCL-4) (Capn9), mRNA [NM_023709]	NM_023709	1.0475
integrin alpha 2b	NM_010575	-1.02185
yolk sac gene 2	NM_011734	-1.00143
Mus musculus RIKEN cDNA 0610011L13 gene (0610011L13Rik), mRNA [NM_	NM_146002	1.05228
Paraneoplastic antigen MA1	AK028331	1.12247
K+ voltage-gated channel, subfamily S, 2	NM_008436	1.16664
betaine-homocysteine methyltransferase	NM_016668	1.11367
interleukin 18 receptor accessory protein	NM_010553	-1.06583
Sjogren syndrome antigen A2	AK040977	-1.27941
Mus musculus expressed sequence AV249152 (AV249152), mRNA [NM_14542	NM_145425	-1.11405
superiorcervical ganglia, neural specific 10	NM_025285	1.01717
RIKEN cDNA B930037P14 gene	AK047234	1.04581
IAP promoted placental gene	NM_008389	-1.08749
Mus musculus CD209d antigen (CD209d), mRNA [NM_130904]	NM_130904	-1.06904
RIKEN cDNA 0610010E21 gene	BI080428	-1.01145
Expressed sequence AI841875	AI508699	-1.07721
Polycomb group ring finger 3	AK085574	1
solute carrier family 25 (mitochondrial carrier, brain), member 14	NM_011398	-1.03816
Phosphodiesterase 6G, cGMP-specific, rod, gamma	Y00746	1.40481
Mus musculus RIKEN cDNA B830013J05 gene (B830013J05Rik), mRNA [NM_	NM_178722	1.05735
EST03189 Mouse 7.5 dpc embryo ectoplacental cone cDNA library Mus muscul	AA408654	1

gamma-aminobutyric acid (GABA-A) receptor, subunit beta 1	NM_008069	1.07655
Mus musculus solute carrier family 9 (sodium/hydrogen exchanger), isoform 9 (Slc9a9)	NM_177909	1.09562
Glycine receptor, alpha 4 subunit	AK085727	1.10352
Unknown		1
Unknown		1.02433
Mus musculus solute carrier family 39 (zinc transporter), member 3 (Slc39a3), mRNA [NM_134135]	NM_134135	1.00777
Mus musculus ATPase, H ⁺ transporting, V1 subunit B, isoform 1 (Atp6v1b1), mRNA [NM_134157]	NM_134157	1.11586
aldehyde dehydrogenase 2, mitochondrial	NM_009656	-1.276
DNA segment, Chr 16, ERATO Doi 642, expressed	AK078103	1.00935
RIKEN cDNA 1600031M04 gene	NM_026086	-1.95922
Mus musculus cDNA sequence BC051244 (BC051244), mRNA [NM_178413]	NM_178413	1.02435
endothelial differentiation-related factor 1	NM_021519	1.05897
ATP-binding cassette, sub-family A (ABC1), member 8a	AK031843	-1.22553
Similar to IgM(b) heavy pre-chain (AA -18 to 119)	AB069915	-1.01117
MEMBRANE PROTEIN, PALMITOYLATED 4; DISCS LARGE HOMOLOG 6. [Source:RefSeq]		1.12883
Mus musculus solute carrier family 34 (sodium phosphate), member 3 (Slc34a3), mRNA [NM_080854]	NM_080854	-1.03481
stearoyl-Coenzyme A desaturase 1	NM_009127	1.09661
RIKEN cDNA 2700017A04 gene	AK047775	-1.20777
Ral GEF with PH domain and SH3 binding motif 2	AK008856	-1.06484
Mus musculus 2'-5' oligoadenylate synthetase 1B (Oas1b), mRNA [NM_011853]	NM_011853	1.01842
plastin 2, L	NM_008879	1.16249
RIKEN cDNA 1700125F08 gene	AK007277	1.10145
Unknown		1
Mus musculus 12 days embryo spinal ganglion cDNA, RIKEN full-length enriched library cDNA	AK083793	1.08449
Mus musculus cDNA sequence BC014685 (BC014685), mRNA [NM_144916]	NM_144916	-1.19207
Methyltransferase-like 3	BC012526	-1.0515
RIKEN cDNA C330006D17 gene	AK021182	1.07144
Unknown		1
RIKEN cDNA 5830484A20 gene	AK077800	1.01511
RIKEN cDNA 1110036B12 gene	NM_025403	1.02448
unknown EST [2810416G20]		1.05783
Mus musculus chromodomain helicase DNA binding protein 4 (Chd4), mRNA [NM_145979]	NM_145979	1.6387
Unknown		1.02708
Unknown		-1.10159
TSC22 domain family 4	AF201286	-1.02065
Solute carrier family 18 (vesicular monoamine), member 2	AK035644	1.0121
Unknown		-1.09521
synaptosomal-associated protein, 91 kDa	NM_013669	1.05228
Mus musculus kinesin family member 13B (Kif13b), mRNA [XM_283218]	XM_283218	1.02492
V-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog	U76426	-1.0712
Unknown		1.07207
bone gamma-carboxyglutamate protein 2	NM_031368	1.0907
Zinc finger, CCHC domain containing 4	AK019621	-1.1887
Mus musculus cDNA sequence BC028450 (BC028450), mRNA [NM_173790]	NM_173790	-1.04669
Arachidonate 5-lipoxygenase	AK089344	-1.20303
GTPase activating RANGAP domain-like 1	AK046680	1.18914
F-box only protein 33	BC025217	-1.04822
Mus musculus olfactory receptor 530 (Olfr530), mRNA [NM_146519]	NM_146519	1.0847
Unknown		1.00568
Mus musculus Ras and Rab interactor 3 (Rin3), mRNA [NM_177620]	NM_177620	-1.0613
OLFACTORY RECEPTOR GA_X6K02T2PSCP-1843460-1844386 (FRAGMENT). [Source:SPRINGER]		-1.09188
CDNA sequence BC034097	NM_172050	1.02541

Alport syndrome, mental retardation, midface hypoplasia and elliptocytosis chromo	NM_019496	-1.48603
Unknown		1.04868
Sjogren syndrome antigen A2	NM_013835	-1.40002
Expressed sequence AI850995	AK036079	1.10374
Unknown		1.15418
Unknown		1.05763
Mus musculus solute carrier family 7, (cationic amino acid transporter, y+ system)	NM_028746	-1.01868
Unknown		1.03689
regulatory factor X-associated ankyrin-containing protein	NM_011266	1.12046
Thromboxane A2 receptor	NM_009325	1.06373
Adult male diencephalon cDNA, RIKEN full-length enriched library, clone:93301	AK079064	1.02149
synaptic vesicle glycoprotein 2 a	NM_022030	1.02935
Mus musculus tubulin tyrosine ligase-like 1 (Tll1), mRNA [NM_178869]	NM_178869	1.04172
Mus musculus casein kinase 1, gamma 2 (Csnk1g2), mRNA [NM_134002]	NM_134002	1.10541
serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 5	NM_009257	-1.01653
Unknown		1.02166
Mus musculus motile sperm domain containing 1 (Mospd1), mRNA [NM_027401; NM_027409]		-1.31464
Mus musculus expressed sequence AI854703 (AI854703), mRNA [NM_177737; NM_177737]		-1.01959
Unknown		1.17356
carbonic anhydrase 4	NM_007607	-1.02559
Mus musculus expressed sequence AW228944 (AW228944), mRNA [XM_140714; XM_140761]		1.08584
vesicle-associated membrane protein 5	NM_016872	-1.16159
Mus musculus RIKEN cDNA 2310010B21 gene (2310010B21Rik), mRNA [NM_027123; NM_027123]		-1.04856
Unknown		1.01114
RIKEN cDNA 4930539I12 gene	NM_029203	-1.20955
interferon regulatory factor 4	NM_013674	1.05883
Mus musculus protocadherin beta 22 (Pcdhb22), mRNA [NM_053147; NM_053147]		1.05928
aquaporin 3	NM_016689	-1.05127
procollagen, type XII, alpha 1	NM_007730	1.04859
RIKEN cDNA 4930517K11 gene	NM_026594	-1.03948
Mus musculus cytochrome P450, family 2, subfamily a, polypeptide 12 (Cyp2a1), mRNA [NM_133657; NM_133657]		1.02817
High mobility group box 2	AK011467	-1.55068
TAR (HIV) RNA binding protein 2	NM_009319	1.0136
hemopoietic cell kinase	NM_010407	-1.27266
RAN binding protein 3	AK040481	1.11058
Mus musculus spermatogenesis associated, serine-rich 2 (Spats2), mRNA [NM_139140; NM_139140]		1.08325
schlafen 1	NM_011407	1.22805
PRKC, apoptosis, WT1, regulator	AF377871	-1.3121
Mus musculus RIKEN cDNA C230052I12 gene (C230052I12Rik), mRNA [NM_178643; NM_178643]		1.42528
UI-M-AJ0-aax-c-03-0-UI.s2 NIH_BMAP_MOB Mus musculus cDNA clone UI-M- AI839636		1.15504
Mus musculus similar to B6 olfactory receptor (LOC194433), mRNA [XM_112414; XM_112414]		1.05299
Rho guanine nucleotide exchange factor (GEF) 15	AK052570	-1.00302
Unknown		1.04566
UI-1-CF0-amw-b-09-0-UI.s1 NCI_CGAP_PITr1 Mus musculus cDNA clone UI-1- BQ033444		-1.04814
Unknown		1.12203
RIKEN cDNA 4930564C03 gene	AK016217	1.03079
ATPase, H+ transporting, lysosomal 50/57kDa, V1 subunit H	BC009154	-1.2077
Mus musculus protocadherin gamma subfamily A, 3 (Pcdhga3), mRNA [NM_033586; NM_033586]		1.20262
Unknown		1.20625
Sperm specific antigen 2	AB093303	-1.15229
Unknown		1.10009
cytochrome c oxidase, subunit VIIIb	NM_007751	-1.08941

myosin light chain, phosphorylatable, fast skeletal muscle	NM_016754	-1.19055
Serine/threonine kinase 36 (fused homolog, Drosophila)	AK086716	-1.00549
CDNA sequence BC003885	AK079586	1.09863
protein tyrosine phosphatase, receptor type, C	NM_011210	-1.50355
Mus musculus ash1 (absent, small, or homeotic)-like (Drosophila) (Ash1l), mRNA [NM_138679		1.24546
Mus musculus similar to RIKEN cDNA E330009P21 gene (LOC382105), mRNA [NM_199036		1.26703
Mus musculus RIKEN cDNA 3110052N05 gene (3110052N05Rik), mRNA [NM_029826		-1.07647
AF484417 Csr1 {Cricetulus griseus}, partial (32%) [TC959782]		1.01014
Mus musculus solute carrier family 26, member 8 (Slc26a8), mRNA [NM_146077		1.09716
Mus musculus ATP-binding cassette, sub-family F (GCN20), member 1 (Abcf1), NM_013854		1.10993
RIKEN cDNA 2810439M05 gene	NM_026046	1.0822
guanylate cyclase 1, soluble, beta 3	NM_017469	-1.39463
Mus musculus acyl-Coenzyme A oxidase 2, branched chain (Acox2), mRNA [NM_053115		-1.1478
RAS protein-specific guanine nucleotide-releasing factor 1	NM_011245	1.45096
protein kinase C, alpha	NM_011101	-1.15528
Chromobox homolog 2 (Drosophila Pc class)	X62537	-1.08733
RIKEN cDNA 1700007B13 gene	AK005692	-1.17387
Mus musculus RIKEN cDNA 9130221H12 gene (9130221H12Rik), mRNA [NM_178400		-1.22254
Mus musculus arylsulfatase B (Arso), mRNA [NM_009712]	NM_009712	1.07964
plasmalemma vesicle associated protein	NM_032398	1.14202
602390431F1 NIH_MGC_94 Mus musculus cDNA clone IMAGE:4502574 5', mRNA [BG293504		1.01167
RIKEN cDNA 1700055O19 gene	NM_026100	-1.05604
Mus musculus paired related homeobox protein-like 1 (Prrxl1), mRNA [NM_00100179		-1.05256
rad and gem related GTP-binding protein	NM_009047	1.05695
Rho GDP dissociation inhibitor (GDI) gamma	NM_008113	1.06334
Mus musculus RIKEN cDNA 4932411N23 gene (4932411N23Rik), mRNA [NM_177705		-1.05043
Unknown		-1.00398
Mus musculus gem (nuclear organelle) associated protein 6 (Gemin6), mRNA [NM_026053		-1.51234
RAB4A, member RAS oncogene family	NM_009003	-1.13793
Mus musculus expressed sequence AA536749 (AA536749), mRNA [NM_012027		-1.0111
tumor susceptibility gene 101	NM_021884	1.07056
Mus musculus protocadherin beta 2 (Pcdhb2), mRNA [NM_053127]	NM_053127	1.11854
Mus musculus olfactory receptor 679 (Olfr679), mRNA [NM_147044]	NM_147044	1.05301
Mus musculus RIKEN cDNA 1110020M19 gene (1110020M19Rik), mRNA [NM_027927		-1.07483
RIKEN cDNA 9530020G05 gene	AK089347	-1.02367
Unknown		-1.07026
Mus musculus vaccinia related kinase 3 (Vrk3), mRNA [NM_133945]	NM_133945	-1.04014
RIKEN cDNA 2700046G09 gene	AK035700	1.0256
Unknown		1.21405
RIKEN cDNA 5830443F10 gene	NM_026369	-1.27253
microtubule-associated protein 1 light chain 3	NM_026160	-1.01952
Mus musculus ataxin 2 related protein (A2lp), mRNA [NM_183020]	NM_183020	-1.17875
Mus musculus E2F transcription factor 2 (E2f2), mRNA [NM_177733]	NM_177733	1.16047
TEA domain family member 2	NM_011565	1.02544
RIKEN cDNA D330014H01 gene	Z83813	-1.05094
Unknown		1.06638
Mus musculus vomeronasal 1 receptor, J2 (V1rj2), mRNA [NM_134226]	NM_134226	1.10493
Mus musculus TEA domain family member 3 (Tead3), mRNA [NM_011566]	NM_011566	-1.04038
OLFACTORY RECEPTOR GA_X6K02T2Q125-47430129-47431103. [Source:SPTREMBL;Acc		1.08796
Mus musculus RIKEN cDNA 5031414D18 gene (5031414D18Rik), mRNA [NM_198642		1.01782
Mus musculus RIKEN cDNA 8430438L13 gene (8430438L13Rik), mRNA [NM_172756		1.03686
Mus musculus ADP-ribosyltransferase (NAD+, poly (ADP-ribose polymerase)-lik	NM_145619	1.12132

Unknown		1.16567
Mus musculus cDNA sequence BC024537 (BC024537), mRNA [NM_146237]	NM_146237	1.20884
CDNA, clone:Y1G0102J24, strand:plus, reference:ENSEMBL:Mouse-Transcript AK043682		1.04223
Mus musculus par-6 partitioning defective 6 homolog gamma (C. elegans) (Parc	NM_053117	-1.05853
Mus musculus RIKEN cDNA 1700029B21 gene (1700029B21Rik), mRNA [NM_	NM_029342	1.08454
RIKEN cDNA A230052G17 gene	CA322175	1
RIKEN cDNA A630024B12 gene	NM_181064	-1.16686
SWA-70 protein	NM_009302	-1.42057
Mus musculus RIKEN cDNA 4930527D15 gene (4930527D15Rik), mRNA [NM_	NM_026350	1.04416
OLFACTORY RECEPTOR GA_X6K02T2PVTD-32123032-32123967. [Source:SPTREMBL;Acci		1.0936
neuronal PAS domain protein 2	NM_008719	1.01426
a disintegrin and metalloprotease domain 24 (testase 1)	NM_010086	-1.05469
coagulation factor II	NM_010168	-1.29086
Mus musculus RIKEN cDNA 2310056K19 gene (2310056K19Rik), mRNA [NM_	NM_080846	-1.25393
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK015959		-1.08839
TRAF2 and NCK interacting kinase	AK088459	-1.04111
Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 13B (Ppp1r1	NM_011625	1.14492
transcobalamin 2	NM_015749	1.16445
Opioid binding protein/cell adhesion molecule-like	AK048730	1.05225
dickkopf homolog 1 (Xenopus laevis)	NM_010051	-1.087
Keratin associated protein 6-3	D89901	1.13689
RIKEN cDNA 2010106G01 gene	BC016267	-1.00892
Mus musculus RIKEN cDNA 2310020P08 gene (2310020P08Rik), mRNA [NM_	NM_027134	-1.36898
Mus musculus RIKEN cDNA E430019N21 gene (E430019N21Rik), mRNA [XM_	XM_127673	1.0487
Nucleoporin 188	U89435	1.00202
Mus musculus zinc finger protein 462 (Zfp462), mRNA [NM_172867]	NM_172867	-1.2729
Mus musculus RIKEN cDNA 8430416H19 gene (8430416H19Rik), mRNA [NM_	NM_198636	1.18302
RIKEN cDNA 1810073E21 gene	NM_025960	-1.20928
cytochrome P450, 46 (cholesterol 24-hydroxylase)	NM_010010	-1.07317
RIKEN cDNA 0610006F02 gene	NM_027853	-1.00405
Mus musculus olfactory receptor 1223 (Olfr1223), mRNA [NM_146892]	NM_146892	1.02493
Unknown		-1.04233
Mus musculus nucleolar and coiled-body phosphoprotein 1 (Nolc1), mRNA [NM_	NM_053086	1.14337
Mus musculus protein O-fucosyltransferase 1 (Pofut1), mRNA [NM_080463]	NM_080463	1.14155
Mus musculus DNA segment, Chr 8, ERATO Doi 812, expressed (D8Ert812e),	NM_198020	1.14414
Uncoupling protein 3 (mitochondrial, proton carrier)	NM_009464	1.10048
chemokine (C-C) receptor 10	NM_009913	1.07643
Fanconi anemia, complementation group A	NM_016925	1.07707
Mus musculus Ftsj homolog (E. coli) (Ftsj), mRNA [NM_133991]	NM_133991	-1.16395
AB065949 seven transmembrane helix receptor {Homo sapiens}, complete [TC1073196]		-1.04768
Mus musculus cDNA sequence BC062109 (BC062109), mRNA [NM_182841]	NM_182841	1.01868
scotin gene	NM_025858	-1.10281
Mus musculus Cdc42 binding protein kinase beta (Cdc42bpb), mRNA [NM_183	NM_183016	1.09753
mitochondrial folate transporter/carrier	NM_172402	-1.25389
RIKEN cDNA 2810402A17 gene	AK049939	1.04577
RIKEN cDNA 9030418K01 gene	AK018518	-1.2331
Mus musculus 2'-5' oligoadenylate synthetase-like 2 (Oasl2), mRNA [NM_0118	NM_011854	1.05169
Mus musculus RIKEN cDNA D230005D02 gene (D230005D02Rik), mRNA [NM_	NM_172813	-1.13352
RIKEN cDNA 2210013K02 gene	NM_023712	-1.14034
dopamine receptor 2	NM_010077	1.05284
Mus musculus brain cDNA, clone MNCb-2622, similar to AB033102 KIAA1276	AB041544	1.01973
DiGeorge syndrome critical region gene 8	AF201683	-1.03353

Mus musculus keratin associated protein 16-3 (Krtap16-3), mRNA [NM_130872]	NM_130872	1.24602
Gene model 1821, (NCBI)	M81747	1.05343
Pecanex homolog (Drosophila)	AK037941	1.06912
prostaglandin E synthase	NM_022415	1.06668
Unknown		1.03179
Mus musculus thyrotropin-releasing hormone degrading ectoenzyme (Trhde), m	NM_146241	1.0102
Unknown		1.04099
fetal liver zinc finger 1	NM_020594	-1.02818
early development regulator1 (homolog of polyhomeotic 1)	NM_007905	1.06182
BCL2/adenovirus E1B 19kDa-interacting protein 1, NIP2	AF035207	-1.16109
RIKEN cDNA 1700121L12 gene	NM_026108	1.12196
Eph receptor A7	NM_010141	-1.11967
Serine (or cysteine) proteinase inhibitor, clade E, member 1	NM_008871	-1.17962
RIKEN cDNA 1300007B12 gene	NM_020588	-1.00178
Mus musculus expressed sequence AW209491 (AW209491), mRNA [NM_134067]	NM_134067	-1.66941
t-complex testis-expressed 3	NM_009343	-1.09465
forkhead box M1	NM_008021	-1.35451
Mus musculus spastic paraplegia 7 homolog (human) (Spg7), mRNA [NM_153176]	NM_153176	1.02617
Mus musculus DNA segment, Chr 10, Wayne State University 102, expressed (I	NM_026579	1.02649
RIKEN cDNA 2810012G08 gene	AK046469	-1.03625
Unknown		-1.01811
RIKEN cDNA 1810063B07 gene	BC027644	-1.11625
glucose-6-phosphate dehydrogenase 2	NM_019468	1.10047
carbonic anhydrase 5a, mitochondrial	NM_007608	1.16066
RIKEN cDNA 0610025K21 gene	NM_025337	1.00159
Mus musculus RIKEN cDNA 2610204K14 gene (2610204K14Rik), mRNA [NM_025997]	NM_025997	-1.69931
Unknown		1.01241
RIKEN cDNA 1700025H01 gene	AK006338	-1.01769
Syntaxin 3	D29797	-1.05028
RIKEN cDNA 4921531P07 gene	AK076605	-1.11068
Unknown		1.19516
RIKEN cDNA 2410116G06 gene	NM_026630	1.02566
Rho-associated coiled-coil forming kinase 1	NM_009071	-1.03569
BU592977 AGENCOURT_8810137 NIH_MGC_137 Mus musculus cDNA clone BU592977	BU592977	-1.00029
Mus musculus amine oxidase, flavin containing 1 (Aof1), mRNA [NM_172262]	NM_172262	-1.05593
Mus musculus solute carrier family 6 (neurotransmitter transporter, glycine), member 1	NM_148931	-1.04869
Mus musculus olfactory receptor 784 (Olf784), mRNA [NM_146729]	NM_146729	1.02256
Mus musculus growth differentiation factor 2 (Gdf2), mRNA [NM_019506]	NM_019506	-1.09114
RAR-related orphan receptor gamma	NM_011281	-1.06915
uterine-specific proline-rich acidic protein	NM_009475	1.12618
Mus musculus similar to transcription factor NRF; ITBA4 gene (9430034D17Rik), mRNA [XM_141694]	XM_141694	1.14705
synaptosomal-associated protein, 25 kDa	NM_011428	1.07012
RIKEN cDNA 4432406C05 gene	NM_025708	-1.28491
Unknown		1.01544
Unknown		1.08364
cerebral cavernous malformations 1	NM_030675	-1.12584
Eph receptor B4	U06834	1.14526
Solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 26	BC049899	1.03824
Mus musculus leucine-rich repeat-containing 8 (Lrrc8), mRNA [NM_177725]	NM_177725	1.11628
Ubiquitin-like, containing PHD and RING finger domains 2	AK031036	1.07664
cation-chloride cotransporter-interacting protein 1	NM_031406	-1.06138
gap junction membrane channel protein beta 3	NM_008126	1.29903

Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, c	AK081750	-1.0054
Mus musculus olfactory receptor 1248 (Olf1248), mRNA [NM_146791]	NM_146791	1.04271
Mus musculus cDNA sequence BC031593 (BC031593), mRNA [NM_146063]	NM_146063	-1.11194
heart and neural crest derivatives expressed transcript 2	NM_010402	1.04701
Mus musculus calcium channel, voltage-dependent, L type, alpha 1D subunit (C	NM_028981	1.13359
Autism susceptibility candidate 2	AK080938	1.1246
RIKEN cDNA 4921511I16 gene	NM_172407	-1.22809
Mus musculus keratin complex 1, acidic, gene 10 (Krt1-10), mRNA [NM_010660]	NM_010660	-1.12935
S-adenosylhomocysteine hydrolase-like 1	AK004088	-1.35938
Mus musculus RIKEN cDNA 4933406L09 gene (4933406L09Rik), mRNA [NM_028934]	NM_028934	1.00547
methylcrotonoyl-Coenzyme A carboxylase 1 (alpha)	NM_023644	-1.14687
Mus musculus ganglioside-induced differentiation-associated-protein 2 (Gdap2),	NM_010269	-1.19102
adenylate kinase 1	NM_021515	1.13644
Unknown		1.12898
GLI-Kruppel family member GLI3	AK037232	-1.13719
recombining binding protein suppressor of hairless-like (Drosophila)	NM_009036	1.20683
hypothetical protein C530015C18	NM_177681	-1.08429
Mus musculus ubiquitin-conjugating enzyme E2 variant 1 (Ube2v1), mRNA [NM_023230]	NM_023230	-1.06453
Phospholipase C, gamma 1	X95346	-1.04744
Zinc finger, SWIM domain containing 4	AK053663	1.06271
OLFACTORY RECEPTOR GA_X6K02T2Q125-50727797-50726862. [Source:SPTREMBL;Acc		-1.00199
CBFA2T1 identified gene homolog (human)	NM_009822	1.19057
Mus musculus inhibitor of kappaB kinase beta (Ikbkb), mRNA [NM_010546]	NM_010546	-1.05715
Mus musculus desmoglein 1 beta (Dsg1b), mRNA [NM_181682]	NM_181682	1.0722
Unknown		1.05903
Mus musculus solute carrier family 39 (metal ion transporter), member 5 (Slc39e	NM_028051	-1.01578
zinc finger protein 259	NM_011752	1.08532
G protein-coupled receptor 91	NM_032400	1
Mus musculus ceramide kinase (Cerk), mRNA [NM_145475]	NM_145475	-1.11438
Prostaglandin E receptor 4 (subtype EP4)	BG067153	1.11666
Caspase recruitment domain family, member 6	AK052796	-1.11828
RIKEN cDNA 1600002H07 gene	AK005395	1.11143
LOC434536	BC006770	-1.03007
RIKEN cDNA E230011G24 gene	AK084239	1.09172
dynamamin 2	NM_007871	1.02997
Mus musculus bactericidal/permeability-increasing protein-like 2 (Bpil2), mRNA	NM_177772	-1.28375
RIKEN cDNA 4933424N09 gene	NM_027698	1.08177
RIKEN cDNA 2510042P03 gene	AK011097	-1.06044
RIKEN cDNA A330015D16 gene	AK039282	1.10903
RIKEN cDNA 4930444E23 gene	AK015378	1.01471
RIKEN cDNA 2610209A20 gene	NM_026010	-1.03362
serine hydroxymethyl transferase 1 (soluble)	NM_009171	1.09251
RIKEN cDNA 4930461P20 gene	AA896010	1.00712
serine protease inhibitor 6	NM_009256	1.0235
Mus musculus ring finger protein 144 (Rnf144), mRNA [NM_080563]	NM_080563	-1.26028
Mus musculus xylosylprotein beta1,4-galactosyltransferase, polypeptide 7 (gala	NM_146045	-1.0494
NTPase, KAP family P-loop domain containing 1	AK009357	1.01671
Thyroid hormone receptor interactor 11	BC044791	1.0495
G protein-coupled receptor 75	AK044553	1.1001
Mus musculus cDNA sequence BC023179 (BC023179), mRNA [NM_145577]	NM_145577	1.00091
RIKEN cDNA 0610042E07 gene	NM_026158	-1.11626
Mus musculus expressed sequence AU040320 (AU040320), mRNA [NM_133888]	NM_133888	-1.0456

Mus musculus amnionless (Amn), mRNA [NM_033603]	NM_033603	1.05963
Unknown		-1.1148
AGENCOURT_10518688 NIH_MGC_169 Mus musculus cDNA clone IMAGE:6:BU938373		-1.0929
Mus musculus RIKEN cDNA 2410127L17 gene (2410127L17Rik), mRNA [NM_(NM_026120		-1.51657
zinc finger protein 161	NM_009547	-1.03771
Mus musculus cytochrome c oxidase, subunit VIc (Cox6c), mRNA [NM_053071]	NM_053071	-1.32005
cadherin 17	NM_019753	1.01548
ribosomal protein L19	NM_009078	1.16133
golgi autoantigen, golgin subfamily a, 5	NM_013747	-1.10077
Mus musculus 10 days embryo whole body cDNA, RIKEN full-length enriched lit	AK011898	-1.19067
Mus musculus vomeronasal 1 receptor, H11 (V1rh11), mRNA [NM_134236]	NM_134236	1.33881
mannose binding lectin, serum (C)	NM_010776	-1.20648
RAD52 homolog, (S. cerevisiae)	NM_011236	1.01008
Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 29 (Dhx29), mRNA [NM_172594]	NM_172594	1.09589
Unknown		-1.03362
Mus musculus longevity assurance homolog 6 (S. cerevisiae) (Lass6), mRNA [NM_172856]	NM_172856	1.00203
Mus musculus suppressor of variegation 4-20 homolog 2 (Drosophila) (Suv420h)	NM_146177	1.21307
RIKEN cDNA 6330417G02 gene	AK018189	1.07722
Unknown		1.08156
epithelial membrane protein 1	NM_010128	1.04435
protein tyrosine phosphatase 4a1	NM_011200	-1.69955
Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 14D (Ppp1r1)	NM_028104	-1.21578
coactivator-associated arginine methyltransferase 1	NM_021531	1.05896
RIKEN cDNA 9430041O17 gene	AK049030	1.186
Unknown		1.05892
Unknown		1.16991
Mus musculus RIKEN cDNA 2310010G13 gene (2310010G13Rik), mRNA [NM_027122]	NM_027122	-1.04983
RIKEN cDNA 1200013P10 gene	NM_025820	-1.40383
Expressed sequence AW548124	BC022157	1.00777
Mus musculus G protein-coupled receptor 110 (Gpr110), mRNA [NM_133776]	NM_133776	1.00477
small nuclear ribonucleoprotein D1	NM_009226	-1.28291
Mus musculus SRY-box containing gene 8 (Sox8), mRNA [NM_011447]	NM_011447	-1.06326
Unknown		-1.08669
Lung carcinoma myc related oncogene 1	NM_008506	1.24174
Mus musculus RIKEN cDNA 0610027B03 gene (0610027B03Rik), mRNA [NM_029790]	NM_029790	-1.16991
vav 3 oncogene	NM_020505	1.01943
DNA-damage inducible transcript 3	X67083	1.25407
opioid receptor, mu	NM_011013	1.04163
Serologically defined colon cancer antigen 10	AK014025	-1.09126
PR domain containing 4	BC025642	1.02444
glutathione synthetase	NM_008180	1.02989
Fibronectin type III domain containing 4	AB030187	1.00487
Nuclear transcription factor, X-box binding-like 1	AK005913	1.02943
PR domain containing 13	BC017632	1.08049
Mus musculus RIKEN cDNA 1810043M15 gene (1810043M15Rik), mRNA [NM_199056]	NM_199056	1.07993
chondroitin sulfate proteoglycan 3	NM_007789	1.0228
Unknown		1.02991
Paternally expressed 10	AB091827	-1.13697
parvin, alpha	NM_020606	1.07433
26S proteasome-associated pad1 homolog	NM_021526	-1.6087
MRNA similar to angiotensin-like factor (cDNA clone MGC:32448 IMAGE:5043)	BC023373	1.10595
Mus musculus neural cell adhesion molecule 1 (Ncam1), mRNA [NM_010875]	NM_010875	-1.06754

hypothetical protein 6720451E15	NM_177596	-1.19889
Gene trap locus F3b	AK004720	-1.03929
activin receptor IIB	NM_007397	1.0854
RIKEN cDNA 4921509J17 gene	AK054449	1.35565
Mus musculus early mitogen-activated factor 1 (EMAF-1) mRNA, partial cds.	AF003088	1.18703
RIKEN cDNA 3110056M06 gene	NM_026082	1.04124
Mus musculus olfactory receptor 763 (Olfr763), mRNA [NM_146862]	NM_146862	1.21415
RIKEN cDNA 2210403N09 gene	BC024804	1.13816
High mobility group nucleosomal binding domain 3	BC005693	-1.04443
Mus musculus RIKEN cDNA 1810041F13 gene (1810041F13Rik), mRNA [XM_ XM_128552		-1.02646
myelin and lymphocyte protein; T-cell differentiation protein	NM_010762	-1.05686
Unknown		-1.08612
Mus musculus RIKEN cDNA 2410081M15 gene (2410081M15Rik), mRNA [NM_ NM_028603		1.05692
Mus musculus vacuolar protein sorting 33A (yeast) (Vps33a), mRNA [NM_0299:NM_029929		1.00441
Mus domesticus (lbx) homeodomain mRNA, partial cds.	L26238	1.04732
Unknown		-1.1538
ATPases, class II, type 9B	AF155913	1.00431
Unknown		1.06104
Mus musculus RNA binding motif protein 10 (Rbm10), mRNA [NM_145627]	NM_145627	-1.1351
Glycosyltransferase 8 domain containing 2	AK003894	-1.0454
RIKEN cDNA 1110015E18 gene	NM_026536	-1.07616
ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2	NM_009722	-1.03875
cyclin-dependent kinase 2	NM_016756	-1.00053
Killer cell lectin-like receptor subfamily B member 1A	M77676	1.00531
Unknown		1.04876
RIKEN cDNA 1600027N09 gene	BI688427	1
Mus musculus olfactory receptor 178 (Olfr178), mRNA [NM_146997]	NM_146997	-1.00851
Resistin	AF323080	-1.31907
Mus musculus atonal homolog 8 (Drosophila) (Atoh8), mRNA [NM_153778]	NM_153778	-1.01263
Mus musculus 15 days embryo head cDNA, RIKEN full-length enriched library, c	AK086273	-1.04068
Mus musculus Rho-related BTB domain containing 3 (Rhobtb3), mRNA [NM_02 NM_028493		-1.0445
Unknown		1
Wiskott-Aldrich syndrome homolog (human) binding protein	NM_030729	1.07307
galactosylceramidase	NM_008079	1.02858
RIKEN cDNA 9130019O22 gene	AK035847	1.05905
RIKEN cDNA 1700023B02 gene	NM_025854	-2.52045
RAS protein-specific guanine nucleotide-releasing factor 2	NM_009027	-1.04155
hyperpolarization-activated, cyclic nucleotide-gated K ⁺ 2	NM_008226	1.23928
Phenylalanine-tRNA synthetase 2 (mitochondrial)	NM_024274	-1.29805
tumor necrosis factor, alpha-induced protein 2	NM_009396	-1.2512
3-phosphoinositide dependent protein kinase-1	NM_011062	1.04086
BM168F16.1 (NOVEL PROTEIN SIMILAR TO HIGH-MOBILITY GROUP BOX 1 (HMGB1)). [Sc		-1.1461
TANK-binding kinase 1	NM_019786	-1.03896
Mus musculus RIKEN cDNA 6330530A05 gene (6330530A05Rik), mRNA [NM_ NM_172383		1.03963
Mus musculus RIKEN cDNA 1110001A12 gene (1110001A12Rik), mRNA [NM_ NM_029571		-1.05021
zinc finger protein of the cerebellum 3	NM_009575	1.00763
Unknown		1.03143
transglutaminase 1, K polypeptide	NM_019984	1.09186
Myosin ID	AK037051	1.04143
ELK1, member of ETS oncogene family	NM_007922	1.04001
Pellino 2	AK079187	-1.28516
RIKEN cDNA 1110037N09 gene	BC027834	1.03593

V-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)	AF059176	1.00496
Heat-responsive protein 12	U50631	-1.06187
fumarylacetoacetate hydrolase	NM_010176	-1.20018
Unknown		1.12557
golgi autoantigen, golgin subfamily a, 4	NM_018748	-1.2043
cholinergic receptor, muscarinic 1, CNS	NM_007698	-1.0065
RIKEN cDNA 2810405M13 gene	NM_024256	1.05723
Opioid receptor, delta 1	L11064	1.1319
RIKEN cDNA A230054D04 gene	AF013969	-1.11873
secreted frizzled-related sequence protein 4	NM_016687	-1.03365
UI-M-BH3-axg-f-11-0-UI.s1 NIH_BMAP_M_S4 Mus musculus cDNA clone UI-M BE947002		1.2624
Unknown		1.04125
Tubulin, beta 5	X04663	-1.08622
RIKEN cDNA 2610510J17 gene	BC027119	-1.06008
Mus musculus 4-hydroxyphenylpyruvic acid dioxygenase (Hpd), mRNA [NM_0008277]	NM_008277	1.0905
Mus musculus sorting nexin 6 (Snx6), mRNA [NM_026998]	NM_026998	-1.36631
RIKEN cDNA 2210409E12 gene	NM_028218	-1.01793
Unknown		-1.07067
Mus musculus 0 day neonate kidney cDNA, RIKEN full-length enriched library, cAK085543		1.0305
Mus musculus TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor 9, mRNA [NM_027139]	NM_027139	-1.58386
argininosuccinate synthetase 1	NM_007494	-1.19163
olfactory receptor 7b	NM_030553	1.09457
Mus musculus oncoprotein induced transcript 1 (Oit1), mRNA [NM_146050]	NM_146050	-1.12908
Mus musculus zinc finger protein 612 (Zfp612), mRNA [NM_175480]	NM_175480	1.12229
ATP-binding cassette, sub-family B (MDR/TAP), member 7	U43892	1.03655
Unknown		1.02663
Mus musculus zinc finger protein 617 (Zfp617), mRNA [NM_133358]	NM_133358	1.01142
RIKEN cDNA E130014H10 gene	NM_148938	-1.06971
Mus musculus kynureninase (L-kynurenine hydrolase) (Kynu), mRNA [NM_027552]	NM_027552	1
Mus musculus myosin Vb (Myo5b), transcript variant 1, mRNA [NM_201600]	NM_201600	-1.10338
Mus musculus RIKEN cDNA B230220N19 gene (B230220N19Rik), mRNA [NM_175693]	NM_175693	-1.23076
class II transactivator	NM_007575	-1.01069
Mus musculus RIKEN cDNA A530065E19 gene (A530065E19Rik), mRNA [NM_145433]	NM_145433	1.04612
glutamate receptor, ionotropic, AMPA2 (alpha 2)	NM_013540	-1.04281
Williams-Beuren syndrome chromosome region 17 homolog (human)	AK087726	1.05017
5-hydroxytryptamine (serotonin) receptor 3B	NM_020274	1.01562
Mus musculus nuclear receptor coactivator 5 (Ncoa5), mRNA [NM_144892]	NM_144892	-1.12913
Tumor necrosis factor receptor superfamily, member 21	AF322069	1.04472
Myosin, light polypeptide kinase 2, skeletal muscle	AK079396	-1.02482
fibroblast growth factor 4	NM_010202	1.08706
OLFACTORY RECEPTOR GA_X6K02T2NBG7-5528233-5529186 (FRAGMENT). [Source:SP]		1.0805
Mus musculus mucin 6, gastric (Muc6), mRNA [NM_181729]	NM_181729	-1.1775
ADP-ribosylhydrolase like 2	BC023177	-1.05953
Unknown		1.00151
Unknown		-1.05519
Methionine sulfoxide reductase A	AK036170	1.03451
deoxyribonuclease 1-like 3	NM_007870	-1.01144
Mus musculus cDNA sequence BC008103 (BC008103), mRNA [NM_144898]	NM_144898	1.011
Mus musculus apobec-1 complementation factor (Acf-pending), mRNA [XM_129159]	XM_129159	1.0119
Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched library, cAK013187	AK013187	1.03195
Glutamate receptor, ionotropic, delta 2	AK045348	1.07421
OLFACTORY RECEPTOR (FRAGMENT). [Source:SPTREMBL;Acc:Q812G2] [ENSMUST000C]		-1.00956

G protein beta subunit-like	NM_019988	-1.01513
UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 2	NM_017377	-1.18872
Mus musculus translocated promoter region (Tpr), mRNA [NM_133780]	NM_133780	1.13245
Transportin 2 (importin 3, karyopherin beta 2b)	AK029774	-1.08664
Mus musculus phosphatidylinositol (4,5) bisphosphate 5-phosphatase, A (Pib5p	NM_172439	1.23557
Mus musculus RIKEN cDNA 2310001N14 gene (2310001N14Rik), mRNA [NM_	NM_138628	1.00227
high mobility group nucleosomal binding domain 2	NM_016957	-1.4201
Mus musculus ADP-ribosylation factor-like 10B (Arl10b), mRNA [NM_026823]	NM_026823	-1.31885
Mus musculus expressed sequence AI553587 (AI553587), mRNA [NM_178909]	NM_178909	-1.10442
Growth arrest-specific 2 like 1	BC031785	-1.01792
Mus musculus schwannomin interacting protein 1 (Schip1), mRNA [NM_013928]	NM_013928	-1.10085
Mus musculus histone deacetylase 11 (Hdac11), mRNA [NM_144919]	NM_144919	1.07287
CDNA sequence BC023181	AK129198	1.04178
Mus musculus centaurin, beta 5 (Centb5), mRNA [NM_207223]	NM_207223	1.02477
protein that interacts with C kinase 1	NM_008837	-1.11303
fibulin 2	NM_007992	-1.14991
RIKEN cDNA D930040M24 gene	AK053068	1.06578
Mus musculus thymocyte selection-associated HMG box gene (Tox), mRNA [NM_	NM_145711	1.05151
Mus musculus leucine rich repeat neuronal 6A (Lrrn6a), mRNA [NM_181074]	NM_181074	1.11618
RIKEN cDNA 4930412O13 gene	AK029605	1.0425
Diaphanous homolog 1 (Drosophila)	NM_007858	1.01409
macrophage migration inhibitory factor	NM_010798	-1.02452
OLFACTORY RECEPTOR GA_X6K02T2PBJ9-7331927-7332961. [Source:SPTREMBL;Acc:Q		1.03329
Zinc finger, FYVE domain containing 26	AK029679	1.09826
Mus musculus RIKEN cDNA 2810403A07 gene (2810403A07Rik), mRNA [NM_	NM_028814	-1.36236
Mus musculus RIKEN cDNA 2410137M14 gene (2410137M14Rik), mRNA [NM_	NM_029747	1.05865
testis expressed gene 101	NM_019981	1.1167
tumor necrosis factor (ligand) superfamily, member 6	NM_010177	1.05279
calcium channel, voltage-dependent, gamma subunit 1	NM_007582	-1.08221
Mus musculus mitochondrial intermediate peptidase (Mipep), mRNA [NM_0274;	NM_027436	1.07247
Mus musculus DNA segment, Chr 6, Wayne State University 116, expressed (D	NM_026585	-1.06858
Mus musculus T-complex expressed gene 1 (Tce1), mRNA [NM_027141]	NM_027141	1.04367
histone deacetylase 7A	NM_019572	1.49669
Mus musculus carbonic anhydrase 11 (Car11), mRNA [NM_009800]	NM_009800	1.26675
nucleophosmin 1	NM_008722	-1.45437
Mus musculus RIKEN cDNA 2210010L05 gene (2210010L05Rik), mRNA [NM_	NM_133829	1.10474
Mus musculus RIKEN cDNA D930031B21 gene (D930031B21Rik), mRNA [NM_	NM_177891	1.09958
Mus musculus similar to somatostatin receptor type 5 (LOC240053), mRNA [XM	XM_139909	1.09795
small inducible cytokine B subfamily, member 5	NM_009141	-1.2986
nuclear DNA binding protein	NM_020558	-1.5106
Unknown		1.02555
parotid secretory protein	NM_008953	1.05353
Rhomboid, veinlet-like 1 (Drosophila)	NM_144816	1.05748
RIKEN cDNA 2410127E16 gene	BC058404	1.18488
Testis specific protein-Y encoded, pseudogene	AJ001379	-1.06165
pan hematopoietic expression	NM_020286	1.10088
DNA segment, Chr 11, KL Mohlke 34	NM_033568	-1.18871
RIKEN cDNA 2410038A03 gene	NM_025589	-1.30797
Mus musculus DNA segment, Chr X, Immunex 50, expressed (DXImx50e), mRNA	NM_207202	-1.02692
granzyme K	NM_008196	-1.04383
CDNA sequence BC064011	BC064011	1.1452
hyaluronan synthase 2	NM_008216	1.02765

FK506 binding protein 1a (12 kDa)	NM_008019	1.02003
developmentally regulated RNA binding protein 1	NM_178090	-1.35743
ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump), 42 kDa	NM_013477	-1.07392
Histone 2, H2aa2	AK028129	-1.06831
Unknown		1.10397
vomeronasal 2, receptor, 8	NM_009494	1.13326
Unknown		1.05617
semaF cytoplasmic domain associated protein 3	NM_018884	-1.02727
nerve growth factor, beta	NM_013609	1
major urinary protein 4	NM_008648	1.09302
Mus musculus olfactory receptor 805 (Olf805), mRNA [NM_146555]	NM_146555	-1.04441
RIKEN cDNA 4930527J03 gene	AK015919	1.31475
butyrophilin related 1	NM_138678	1.02771
RIKEN cDNA 2810417H13 gene	NM_026515	1.10421
Mus musculus SEC5-like 1 (<i>S. cerevisiae</i>) (Sec5l1), mRNA [NM_025588]	NM_025588	-1.00617
Integrin, beta-like 1	AK047014	1.0669
RIKEN cDNA E430034C17 gene	AK088972	1.16534
RIKEN cDNA G630014P10 gene	AK090190	1.13325
X-linked lymphocyte-regulated 5	NM_031493	1.0802
Uridine phosphorylase 2	BC027189	1.20181
Mus musculus asparaginase like 1 (Asrgl1), mRNA [NM_025610]	NM_025610	1.07179
UI-M-AM0-adp-f-05-0-UI.s1 NIH_BMAP_MAM Mus musculus cDNA clone UI-M-AI840556		1.04527
AAP71325.1 olfactory receptor GA_x6K02T2PVTD-13056760-13057689 [Mus musculus] [NP8]		-1.01254
Unknown		1.00981
RIKEN cDNA 4933439A12 gene	AK017112	1.12585
nuclear factor I/B	NM_008687	-1.09405
protein tyrosine kinase 9	NM_008971	1.03125
potassium voltage gated channel, shaker related subfamily, beta member 2	NM_010598	1.05876
Mus musculus RIKEN cDNA 2810413I22 gene (2810413I22Rik), mRNA [NM_025483]	NM_025483	-1.26589
myc box dependent interacting protein 1	NM_009668	-1.02745
claudin 8	NM_018778	-1.00997
RIKEN cDNA 1700042O10 gene	AK006690	1.09611
Unknown		1
A kinase anchor protein 2	NM_009649	-1.2377
methylenetetrahydrofolate dehydrogenase (NAD ⁺ dependent), methenyltetrahydrofolic acid	NM_008638	-1.05737
mitsugumin 29	NM_008596	1.02108
CDNA sequence BC019561	AK038905	1.08418
aplysia ras-related homolog N (RhoN)	NM_009708	1.18928
Unknown		-1.35343
SEC15-like 2 (<i>S. cerevisiae</i>)	AK090104	1.0438
Myosin, light polypeptide 6, alkali, smooth muscle and non-muscle	NM_010860	-1.00027
RIKEN cDNA 4731417B20 gene	AK014627	1.24304
Unknown		1.03496
Mus musculus PTK2 protein tyrosine kinase 2 beta (Ptk2b), mRNA [NM_172498]	NM_172498	1.24179
Mus musculus estrogen receptor 2 (beta) (Esr2), transcript variant 1, mRNA [NM_207707]	NM_207707	1.02886
Mus musculus microtubule-associated protein, RP/EB family, member 2 (Mapre2), mRNA [NM_153058]	NM_153058	-1.29562
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK016562		1.10841
Unknown		1.07849
carbohydrate (keratan sulfate Gal-6) sulfotransferase 1	NM_023850	-1.14444
Mus musculus dynamin (Dnm), mRNA [NM_010065]	NM_010065	1.40145
dynactin 4	NM_026302	-1.11021
Mus musculus ATP-binding cassette, sub-family G (WHITE), member 8 (Abcg8), mRNA [NM_026180]	NM_026180	1.04366

placental specific protein 1	NM_019538	1.09998
OLFACTORY RECEPTOR GA_X6K02T0073K-490-1545. [Source:SPTREMBL;Acc:Q7TS29] [I		1.09243
WD repeat domain 7	AF188123	1.06683
Mus musculus RIKEN cDNA 1110034A24 gene (1110034A24Rik), mRNA [NM_	NM_027269	-1.01889
SEC10-like 1 (<i>S. cerevisiae</i>)	AK049416	1
RIKEN cDNA 9530037G02 gene	AK019095	1.13339
Mus musculus lethal giant larvae homolog 2 (Llg1h2), mRNA [NM_145438]	NM_145438	1.16544
Mus musculus AHA1, activator of heat shock 90kDa protein ATPase homolog 1	NM_146036	-1.07823
Mus musculus ankyrin repeat and SOCS box-containing protein 15 (Asb15), mR	NM_080847	1.09013
Adult male testis cDNA, RIKEN full-length enriched library, clone:4930421K12 p	BU946097	1.0801
src-related kinase lacking C-terminal regulatory tyrosine and N-terminal myristyl:	NM_011481	1.14663
Mus musculus ectonucleoside triphosphate diphosphohydrolase 3 (Entpd3), mR	NM_178676	-1.10304
RIKEN cDNA D930023J12 gene	BU530348	1.11577
Mus musculus transcriptional adaptor 2 (ADA2 homolog, yeast)-like (Tada2l), m	NM_172562	1.1363
RIKEN cDNA 2310032F03 gene	AK009567	-1.11402
Unknown		1.26446
Mus musculus Wilms tumor homolog (Wt1), mRNA [NM_144783]	NM_144783	-1.24296
Guanine nucleotide binding protein-like 3 (nucleolar)-like	NM_198110	-1.06484
Mus musculus ribosomal protein L24 (Rpl24), mRNA [NM_024218]	NM_024218	-1.30918
protein tyrosine kinase 6	NM_009184	1.00435
Rho GTPase activating protein 8	BC024991	1.0573
Mus musculus leucine rich repeat and fibronectin type III domain containing 3 (L	NM_175478	1.01247
glycolipid transfer protein	NM_019821	1.01069
AGENCOURT_10379521 NIH_MGC_143 Mus musculus cDNA clone IMAGE:6f	BU851290	3.68826
RIKEN cDNA 1700003E16 gene	AK005628	1.19752
Mus musculus ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide (Atp1a1), mR	NM_144900	1.33141
RIKEN cDNA 0610009O03 gene	NM_026660	1.02889
Peptidylprolyl isomerase (cyclophilin)-like 6	AK013818	-1.37618
Mus musculus cDNA sequence BC030314 (BC030314), mRNA [NM_146259]	NM_146259	1.04528
Mus musculus sperm associated antigen 4-like (Spag4l), mRNA [NM_029599]	NM_029599	1.22954
DOM-3 homolog Z (<i>C. elegans</i>)	NM_033613	-1.09284
CD37 antigen	NM_007645	1.07415
zinc finger protein of the cerebellum 2	NM_009574	1.13465
Mus musculus mitochondrial ribosomal protein S27 (Mrps27), mRNA [NM_1737	NM_173757	1.20058
Contactin 2	X81365	1.00577
Unknown		-1.18071
myxovirus (influenza virus) resistance 1	NM_010846	1.07442
Unknown		-1.01254
Mus musculus RIKEN cDNA 5530601I19 gene (5530601I19Rik), mRNA [NM_0:	NM_027797	1.10132
Fanconi anemia, complementation group L	AK008982	1.06195
A disintegrin and metalloprotease domain 28	BC058782	-1.15979
Mus musculus olfactory receptor 592 (Olfr592), mRNA [NM_207556]	NM_207556	1.06805
dim1 (<i>S. pombe</i>)	NM_025299	-1.27066
Mus musculus angiomin-like 1 (Amotl1), mRNA [XM_134711]	XM_134711	-1.10211
Mus musculus Rho guanine nucleotide exchange factor (GEF) 12 (Arhgef12), m	NM_027144	1.0056
Mus musculus RIKEN cDNA 4922503E23 gene (4922503E23Rik), mRNA [NM_	NM_177677	1.11135
RIKEN cDNA 1810055D05 gene	AK007866	-1.50968
Cadherin 9	U69136	1.13583
Apurinic/aprimidinic endonuclease 2	AK080916	1.22973
RIKEN cDNA 4930470P17 gene	NM_026287	-1.02999
RIKEN cDNA 3110073H01 gene	BC025200	-1.01894
AGENCOURT_8481779 NIH_MGC_129 Mus musculus cDNA clone IMAGE:63f	BQ877716	1.29188

eosinophil-associated ribonuclease 2	NM_007895	-1.48545
Sperm acrosome associated 3	AK006357	1.26977
Myosin head domain containing 1	AK004259	-1.23901
Alstrom syndrome 1 homolog (human)	AF425257	1.04489
Cytokine like 1	BC063103	-1.17205
Mus musculus olfactory receptor 677 (Olfr677), mRNA [NM_146358]	NM_146358	1.10761
Feline sarcoma oncogene	AK004587	1.08928
hypothetical protein A930012M17	AK044431	-1.02012
potassium large conductance calcium-activated channel, subfamily M, beta men	NM_021452	-1.09569
RIKEN cDNA 0610041D24 gene	NM_025341	1.02816
Unknown		-1.02022
Mus musculus SWI/SNF related, matrix associated, actin dependent regulator o	NM_053123	-1.10727
Unknown		1.23707
A disintegrin-like and metalloprotease (reprolysin type) with thrombospondin typ	AK031314	-1.01152
thymidine kinase 1	NM_009387	1.08458
ELAV (embryonic lethal, abnormal vision, Drosophila)-like 1 (Hu antigen R)	AK010706	-1.11111
cartilage derived retinoic acid sensitive protein	NM_019394	-1.11186
Mitogen activated protein kinase 8	AK047936	-1.11466
RIKEN cDNA 3322402L07 gene	AK014383	1.07564
Mus musculus 3-hydroxybutyrate dehydrogenase (heart, mitochondrial) (Bdh), n	NM_175177	-1.21561
adaptor protein complex AP-1, mu 2 subunit	NM_009678	-1.08988
FXD domain-containing ion transport regulator 2	NM_052824	1.00279
Mus musculus hypocretin (orexin) receptor 1 (Hcrtr1), mRNA [NM_198959]	NM_198959	1.03626
Mus musculus F-box protein 38 (Fbxo38), mRNA [NM_134136]	NM_134136	-1.15855
Transcribed locus, weakly similar to XP_416400.1 PREDICTED: similar to aldose	AI595614	1.04682
Poliovirus receptor-related 4	AK028479	-1.06983
angiotensin II receptor, type 2	NM_007429	-1.08253
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK015074		1.08256
Mus musculus 0 day neonate cerebellum cDNA, RIKEN full-length enriched libr	AK082403	1
ST1B_MOUSE Syntaxin 1B (P35B). [Rat] {Rattus norvegicus}, complete [TC977829]		1.00039
Mus musculus RIKEN cDNA 9830165K03 gene (9830165K03Rik), mRNA [NM_	NM_172560	-1.05769
UI-M-AP0-abe-d-08-0-UI.s2 NIH_BMAP_MST Mus musculus cDNA clone UI-M-	AI839739	1.28631
coatomer protein complex, subunit epsilon	NM_021538	-1.13341
RIKEN cDNA C330011J12 gene	AK049181	1.26279
OLFACTORY RECEPTOR GA_X6K02T2Q125-72283260-72282322. [Source:SPTREMBL;Acc		1.0153
RNA cyclase homolog	NM_021525	1.11827
Unknown		1.28445
Mus musculus RecQ protein-like 5 (Recql5), mRNA [NM_130454]	NM_130454	1.09599
RIKEN cDNA 2310021J05 gene	NM_024442	1.07898
Mus musculus asparagine-linked glycosylation 1 homolog (yeast, beta-1,4-manr	NM_145362	1.02306
Mus musculus hypothetical protein 4732470K04 (4732470K04), mRNA [XM_12	XM_125685	-1.05817
hypothetical protein C230078M14	NM_172851	1.02451
UI-M-AM0-adn-h-01-0-UI.s1 NIH_BMAP_MAM Mus musculus cDNA clone UI-M-	AI840782	1.10257
RIKEN cDNA 3110006E14 gene	BC058543	1.11598
histocompatibility 2, T region locus 23	NM_010398	1.20917
RIKEN cDNA 4931408A02 gene	AK016443	1.17991
Mus musculus GCIP-interacting protein p29 (Gcipip), mRNA [NM_026780]	NM_026780	1.07071
synovial sarcoma translocation, Chromosome 18	NM_009280	-1.57506
Mus musculus cDNA sequence BC012278 (BC012278), mRNA [NM_146231]	NM_146231	-1.28021
NACHT, leucine rich repeat and PYD containing 6	BC031139	1.09856
potassium voltage-gated channel, subfamily H (eag-related), member 2	NM_013569	-1.02647
TAO kinase 1	AK173156	1.05107

Solute carrier family 5 (sodium/glucose cotransporter), member 12	AK085356	1.06869
carbonyl reductase 1	NM_007620	1.27
similar to Fc fragment of IgG binding protein; IgG Fc binding protein	BF577991	-1.21223
Lung carcinoma myc related oncogene 1	NM_008506	1.02377
BC011294 ectonucleotide pyrophosphatase/phosphodiesterase 5 {Mus musculus}, partial (31%		1.08221
RIKEN cDNA C630002B14 gene	BC020154	-1.58794
growth factor receptor bound protein 14	NM_016719	-1.01197
Unknown		1.01913
Unknown		1.10883
Mus musculus CD109 antigen (Cd109), mRNA [NM_153098]	NM_153098	-1.01572
Mus musculus RIKEN cDNA 2810455B10 gene (2810455B10Rik), mRNA [XM_XM_110852		1.50855
Unknown		1.07123
Mus musculus cyclin D1 (Ccnd1), mRNA [NM_007631]	NM_007631	-1.19314
Mus musculus 12 days embryo spinal ganglion cDNA, RIKEN full-length enriched	AK051619	1.12794
Mus musculus zinc finger protein 609 (Zfp609), mRNA [NM_172536]	NM_172536	1.05683
Chordin-like 1	AF305714	-1.37032
RIKEN cDNA 5930416I19 gene	AK011109	-1.00542
myocyte enhancer factor 2A	NM_013597	-1.25569
limb region 2	NM_021470	1.04628
histamine receptor H 1	NM_008285	-1.01633
Mus musculus crumbs homolog 3 (Drosophila) (Crb3), mRNA [NM_177638]	NM_177638	-1.15651
CD79A antigen (immunoglobulin-associated alpha)	NM_007655	1.00616
Mus musculus casein kinase 1, gamma 1 (Csnk1g1), mRNA [NM_173185]	NM_173185	1.20893
HIV-1 Rev binding protein	AK021349	-1.3647
Biregional cell adhesion molecule-related/down-regulated by oncogenes (Cdon)	AF388037	-1.01001
Mus musculus protein encoding twelve zinc finger proteins (pMLZ-4) mRNA, complete cds.	M98502	-1.1546
Mus musculus interferon-induced protein 35 (Ifi35), mRNA [NM_027320]	NM_027320	-1.16977
Mus musculus major urinary protein 5 (Mup5), mRNA [NM_008649]	NM_008649	-1.0907
Unknown		1.0649
FBJ osteosarcoma oncogene	NM_010234	1.03533
spermidine/spermine N1-acetyl transferase	NM_009121	-1.57698
Mus musculus SEC22 vesicle trafficking protein-like 2 (S. cerevisiae) (Sec22I2),	NM_133704	-1.45089
dickkopf homolog 3 (Xenopus laevis)	NM_015814	-1.24482
Expressed sequence BB114266	AK089532	-1.04472
SH3-domain binding protein 2	L14543	-1.06982
Additional sex combs like 1 (Drosophila)	AK122413	1.01476
Fc receptor, IgG, high affinity I	NM_010186	1.01384
Mus musculus sonic hedgehog (Shh), mRNA [NM_009170]	NM_009170	1.03217
NK2 transcription factor related, locus 4 (Drosophila)	AF202039	1.02619
RIKEN cDNA 1700024G10 gene	AK006300	1.22449
Mus musculus diaphorase 1 (NADH) (Dia1), mRNA [NM_029787]	NM_029787	1.30344
Mus musculus cask-interacting protein 2 (Caskin2), mRNA [NM_080643]	NM_080643	1.07791
PHD finger protein 3	AK032729	-1.14452
Mus musculus type I membrane receptor SLAM2 (Slam) mRNA, complete cds.	AF149792	1.10656
transcription elongation factor A (SII), 2	NM_009326	-1.15003
basic helix-loop-helix (bHLH) gene, class B, beta3	NM_021560	-1.047
activating transcription factor 1	NM_007497	-1.16475
ribosomal protein S3	NM_012052	-1.25792
RIKEN cDNA 2010002L15 gene	NM_026328	1.03503
keratin complex 2, basic, gene 6g	NM_019956	1.07662
t-complex-associated testis expressed 1	NM_013688	-1.13821
Low density lipoprotein receptor adaptor protein 1	AK029008	-1.00105

G protein-coupled receptor kinase-interactor 2	NM_019834	1.01185
Mus musculus Down syndrome critical region homolog 6 (human) (Dscr6), mRNA [NM_133229]	NM_133229	-1.3172
mitogen activated protein kinase kinase kinase 11	NM_022012	1.06656
Mus musculus RIKEN cDNA A530023O14 gene (A530023O14Rik), mRNA [NM_175648]	NM_175648	1.02735
Phosphatidylinositol 3-kinase, catalytic, alpha polypeptide	NM_008839	-1.0086
Thyroid adenoma associated	AK078353	1.02733
Mus musculus ether-a-go-go-like potassium channel (Elk2) mRNA, complete cd	AF109143	1.07857
protein kinase, cAMP dependent, catalytic, alpha	NM_008854	1.0039
Mus musculus epsin 1 (Epn1), mRNA [NM_010147]	NM_010147	1.09274
F-box protein 11	BC055343	-1.53425
RIKEN cDNA 4933400N19 gene	NM_023729	1.23118
Mus musculus RIKEN cDNA 4921520P21 gene (4921520P21Rik), mRNA [NM_027591]	NM_027591	1.04953
Mus musculus transglutaminase 6 (Tgm6), mRNA [NM_177726]	NM_177726	1.10167
hypothetical protein, clone 2-23	NM_020329	-1.07482
Mus musculus RIKEN cDNA 2700049P18 gene (2700049P18Rik), mRNA [NM_175382]	NM_175382	1.09391
Mus musculus RIKEN cDNA 9130227C08 gene (9130227C08Rik), mRNA [NM_027143]	NM_027143	-1.03138
zinc finger protein 422, related sequence 1	AK013605	-1.08526
MC1700 mouse liver, vehicle control Mus musculus cDNA clone MC1700 3' sim	AW113486	1.11721
Prostaglandin E receptor 3 (subtype EP3)	AI844685	-1.05985
Zinc finger, CW type with PWWP domain 2	AK015254	1.2499
Mus musculus RIKEN cDNA 2810006K23 gene (2810006K23Rik), mRNA [NM_028310]	NM_028310	1.2026
cyclin E2	NM_009830	-1.05837
Unknown		1
Transcription factor 7, T-cell specific	X61385	1.03351
TAF3 RNA polymerase II, TATA box binding protein (TBP)-associated factor	AJ292189	1.06235
Unknown		1.05717
SH3 domain protein 2A	NM_019535	1.03473
Coiled-coil domain containing 9	AK011186	1.04056
Expressed sequence AW208599	AF104414	1
Mus musculus rhomboid family 1 (Drosophila) (Rhbf1), mRNA [NM_010117]	NM_010117	-1.00994
Mus musculus olfactory receptor 780 (Olfr780), mRNA [NM_146284]	NM_146284	-1.00147
SEC61, alpha subunit (S. cerevisiae)	NM_016906	1.00257
DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 21 (RNA helicase II/Gu)	NM_019553	1.06462
RIKEN cDNA 2610203K23 gene	NM_021535	-1.30258
Mus musculus MAD homolog 4 interacting transcription coactivator 1 (Mitic1), mRNA [NM_133761]	NM_133761	1.08426
RIKEN cDNA 2010003O18 gene	AK047064	-1.03465
Similar to junction-mediating and regulatory protein; p300 transcriptional cofactor	AK080911	1.74878
ribosomal protein S5	NM_009095	-1.57239
Rap guanine nucleotide exchange factor (GEF) 1	AK077034	-1.06987
RIKEN cDNA 4933400A11 gene	NM_025743	1.22465
Unknown		1.04432
Cd27 binding protein (Hindu God of destruction)	NM_013929	-1.14528
Unknown		1.01173
C-type lectin domain family 4, member e	NM_019948	-1.12405
leucine zipper domain protein	NM_133185	-1.2345
T-box 15	NM_009323	1.01302
Tnf receptor-associated factor 6	NM_009424	-1.05965
Mus musculus olfactory receptor 1272 (Olfr1272), mRNA [NM_146980]	NM_146980	-1.06922
RIKEN cDNA 2210417J20 gene	AK032990	1.11514
Mus musculus RIKEN cDNA 1110049F12 gene (1110049F12Rik), mRNA [NM_025411]	NM_025411	-1.01769
ribosomal protein L7	NM_011291	-1.13041
RIKEN cDNA 4732466D17 gene	AK028883	1.0959

Unknown		1
Unknown		1.0824
602357155F1 NCI_CGAP_Mam1 Mus musculus cDNA clone IMAGE:4485708 !BG244175		-1.11066
guanine nucleotide binding protein, alpha transducing 2	NM_008141	1.03852
Mus musculus RIKEN cDNA 2610036D13 gene (2610036D13Rik), mRNA [NM_	NM_029282	1.06357
Unknown		1
Mus musculus solute carrier family 24 (sodium/potassium/calcium exchanger), r	NM_144813	-1.21841
Mus musculus tripartite motif-containing 42 (Trim42), mRNA [NM_030219]	NM_030219	1.0768
Abhydrolase domain containing 10	NM_172511	-1.30339
Transcribed locus, moderately similar to NP_665733.1 Lipogenin [Rattus norvegicus	AU021384	1.03956
OLFACTORY RECEPTOR GA_X6K02T2RE5P-3645346-3644423. [Source:SPTREMBL;Acc:C		1.02942
RIKEN cDNA G431001E03 gene	AK090119	-1.21622
OLFACTORY RECEPTOR MOR187-1. [Source:RefSeq;Acc:NM_147016] [ENSMUST0000005		1.21502
RIKEN cDNA A830010M09 gene	BC005523	1.12118
Ataxin 7-like 3	AK008158	1.03595
Methylcrotonoyl-Coenzyme A carboxylase 2 (beta)	AK019760	-1.00161
Regulator of G-protein signaling 11	AF061934	1.02063
gastrin releasing peptide receptor	NM_008177	1.04708
RIKEN cDNA 4933417L02 gene	AK029511	-1.34407
Mus musculus breakpoint cluster region homolog (Bcr), mRNA [XM_125706]	XM_125706	1.10161
cadherin 5	NM_009868	1.03949
RIKEN cDNA 1810014B01 gene	AK090016	-1.14796
polycystic kidney disease (polycystin) and REJ (sperm receptor for egg jelly, see	NM_011105	-1.03793
cyclic AMP-regulated phosphoprotein, 21	NM_033264	-1.02823
Mus musculus clone 1.5B/C/D LB9 mRNA, 3'UTR, partial sequence.	U20264	1.14574
Mus musculus RIKEN cDNA 4933430I17 gene (4933430I17Rik), mRNA [NM_1	NM_177607	1.10441
RIKEN cDNA 2310043J07 gene	AK009780	-1.00278
Mus musculus distal-less homeobox 3 (Dlx3), mRNA [NM_010055]	NM_010055	1.03433
kinesin family member 5C	NM_008449	1.04179
Mus musculus AFG3(ATPase family gene 3)-like 1 (yeast) (Afg3l1), mRNA [NM	NM_054070	1.07749
proteasome (prosome, macropain) 26S subunit, non-ATPase, 7	NM_010817	-1.22616
hemopoietic cell phosphatase	NM_013545	1.08424
Mus musculus olfactory receptor 902 (Olfr902), mRNA [NM_146802]	NM_146802	-1.00698
Mus musculus RIKEN cDNA 4932702D22 gene (4932702D22Rik), mRNA [NM_	NM_172857	-1.01658
Mus musculus RIKEN cDNA 4921513B05 gene (4921513B05Rik), mRNA [NM_	NM_198601	-1.02739
ribonuclease 1, pancreatic	NM_011271	1.07575
Unknown		1.08187
proline-serine-threonine phosphatase-interacting protein 2	NM_013831	1.11139
RIKEN cDNA A230048G03 gene	AK052391	-1.00827
Vacuolar protein sorting 52 (yeast)	AK051732	1.02934
Unknown		1.06774
Mus musculus amphiphysin (Amph), mRNA [NM_175007]	NM_175007	1.11451
Epiplakin 1	BC026387	-1.00662
Mus musculus similar to TAR RNA binding protein 1; TAR RNA loop binding pro	XM_134604	-1.06757
Mus musculus RIKEN cDNA 2900010D03 gene (2900010D03Rik), mRNA [NM_	NM_201226	1.06678
crystallin, beta A4	NM_021351	1.04947
Mus musculus potassium inwardly-rectifying channel, subfamily J, member 4 (K	NM_008427	-1.03087
potassium channel, subfamily K, member 1	NM_008430	1.24331
Phosphatidylinositol-4-phosphate 5-kinase, type 1 beta	BC019382	1.98032
RIKEN cDNA E130307J04 gene	BC030921	-1.11248
Unknown		-1.03122
OLFACTORY RECEPTOR GA_X6K02T2NBG7-5548201-5549154 (FRAGMENT). [Source:SP		1.03747

RIKEN cDNA E430012K20 gene	AK129484	-1.61758
Mus musculus lectin, galactose binding, soluble 4 (Lgals4), mRNA [NM_010706]	NM_010706	1.23648
Mus musculus cDNA sequence BC020002 (BC020002), mRNA [NM_145374]	NM_145374	-1.09635
Mus musculus RIKEN cDNA 6720463M24 gene (6720463M24Rik), mRNA [NM_175265]	NM_175265	1.09879
POU domain, class 2, transcription factor 2	NM_011138	1.0342
Unknown		1.05062
Mus musculus RIKEN cDNA A830043J08 gene (A830043J08Rik), mRNA [NM_173425]	NM_173425	-1.03194
RIKEN cDNA 2310003H01 gene	BC048376	1.04723
Mus musculus transient receptor potential cation channel, subfamily M, member 1	NM_153417	1.03472
urokinase plasminogen activator receptor	NM_011113	1.03957
Mus musculus olfactory receptor 557 (Olf557), mRNA [NM_146361]	NM_146361	1.05308
Mus musculus RIKEN cDNA 9130020G10 gene (9130020G10Rik), mRNA [NM_025786]	NM_025786	-1.04174
pancreatic polypeptide receptor 1	NM_008919	1.0911
Mus musculus SMT3 suppressor of mif two 3 homolog 2 (yeast) (Sumo2), mRNA [NM_133354]	NM_133354	-1.61702
NudC domain containing 3	NM_173748	-1.0281
Transmembrane 7 superfamily member 2	AK014166	1.13109
Mus musculus adult female placenta cDNA, RIKEN full-length enriched library, clone AK005564	AK005564	-1.37807
Mus musculus DNA segment, Chr 16, Brigham & Women's Genetics 1547 expressed	NM_178069	-1.24579
Mus musculus lipocalin 2 (Lcn2), mRNA [NM_008491]	NM_008491	-1.04813
embryonal stem cell specific gene 1	NM_025274	-1.02392
dynein, axon, light chain 4	NM_017470	-1.34801
Mus musculus U2 small nuclear ribonucleoprotein auxiliary factor (U2AF) 1 (U2AF1), mRNA [NM_024187]	NM_024187	-1.80483
mucosal vascular addressin cell adhesion molecule 1	NM_013591	1.07049
Cytidine and dCMP deaminase domain containing 1	AK009280	-1.14679
Mus musculus cation channel, sperm associated 3 (Catsper3), mRNA [NM_029772]	NM_029772	-1.01756
RIKEN cDNA D430030G11 gene	BC062886	1.02117
Unknown		1.07921
Mus musculus RIKEN cDNA 4930503E14 gene (4930503E14Rik), mRNA [NM_029131]	NM_029131	-1.07504
Cholinergic receptor, nicotinic, alpha polypeptide 9	AK010496	1.03288
Mus musculus transforming growth factor beta regulated gene 1 (Tbrg1), mRNA [NM_025289]	NM_025289	-1.21635
embryonic stem cell phosphatase	NM_007955	1.11721
Phospholipase C, epsilon 1	BC025027	-1.16645
Immunoglobulin heavy chain 6 (heavy chain of IgM)	L09008	1.00152
hexosaminidase A	NM_010421	-1.13332
Potassium voltage gated channel, Shaw-related subfamily, member 2	AK034053	-1.08128
serine/threonine kinase 16	NM_011494	-1.00263
triggering receptor expressed on myeloid cells 3	NM_021407	1.01075
DNA segment, human D6S2654E	AK007247	1.02516
Unknown		1
Mus musculus RIKEN cDNA A230090E05 gene (A230090E05Rik), mRNA [NM_175000]	NM_175000	1.0388
Dok-like protein	NM_013739	1.28715
Mus musculus tripartite motif protein 23 (Trim23), mRNA [NM_030731]	NM_030731	-1.42228
Mus musculus deiodinase, iodothyronine type III (Dio3), mRNA [NM_172119]	NM_172119	1.15986
Ubiquitin-conjugating enzyme E2M (UBC12 homolog, yeast)	BC026581	1.12198
T-box 2	NM_009324	1.01864
RIKEN cDNA 1700123J19 gene	AK007253	1.04939
hypothetical protein 9430022A14	NM_172530	1.07515
Mus musculus RIKEN cDNA B430119L13 gene (B430119L13Rik), mRNA [NM_177303]	NM_177303	1.01017
Ubiquitin specific protease 3	BQ555974	1.13148
Unknown		-1.01287
Unknown		-1.05952
OLFACTORY RECEPTOR GA_X6K02T2Q125-47430129-47431103. [Source:SPTREMBL;Accession:AF040129]		1.03879

Mus musculus phosphatidylinositol glycan, class K (Pigk), mRNA [NM_178016]	NM_178016	-1.22014
Unknown		1.03415
Unknown		1.03343
CDNA sequence AF155546	AK076287	1.19756
sodium channel, voltage-gated, type V, alpha polypeptide	NM_021544	1.26695
hydroxysteroid dehydrogenase-6, delta<5>-3-beta	NM_013821	1.01081
thymoma viral proto-oncogene 3	NM_011785	1.01005
Mus musculus diphtheria toxin resistance protein required for diphthamide biosyn	NM_144491	1.05235
U5 small nuclear ribonucleoprotein	NM_011431	1.25448
RIKEN cDNA D630042F21 gene	AK085571	1.00287
salivary protein 1	NM_009267	-1.06831
TAF11 RNA polymerase II, TATA box binding protein (TBP)-associated factor	BC005603	-1.33049
Mus musculus vomeronasal 1 receptor, B1 (V1rb1), mRNA [NM_053225]	NM_053225	1.06853
sarcoglycan, beta (43kD dystrophin-associated glycoprotein)	NM_011890	-1.19442
Mus musculus fibronectin leucine rich transmembrane protein 3 (Flrt3), mRNA [I	NM_178382	-1.23549
leukemia/lymphoma related factor	NM_010731	1.31217
RIKEN cDNA 4930456J16 gene	AK015083	-1.01813
pleckstrin homology, Sec7 and coiled/coil domains 2	NM_011181	1.06225
Outer dense fiber of sperm tails 2	BC057001	-1.1243
Mus musculus vomeronasal 1 receptor, I7 (V1ri7), mRNA [NM_134224]	NM_134224	1.06149
hyaluronan mediated motility receptor (RHAMM)	NM_013552	-1.05983
synaptogyrin 2	NM_009304	-1.14064
BU591575 AGENCOURT_8783216 NIH_MGC_137 Mus musculus cDNA clone	BU591575	1.23654
RIKEN cDNA 4930524N10 gene	AK015889	1.10197
RIKEN cDNA 1200011D03 gene	NM_023617	-1.64309
complement component 1, q subcomponent, alpha polypeptide	NM_007572	-1.14535
UI-M-AQ1-aea-b-05-0-UI.s1 NIH_BMAP_MHI_N Mus musculus cDNA clone UI-	AI842513	1.13937
Mus musculus expressed sequence AW125753 (AW125753), mRNA [NM_0290	NM_029007	-1.07139
RIKEN cDNA 1500005I02 gene	AK032100	1.11695
AF073980 olfactory receptor {Mus musculus domesticus}, complete [TC989399]		1.04166
Mus musculus glycosylation dependent cell adhesion molecule 1 (Glycam1), mF	NM_008134	-1.0443
activating transcription factor 4	NM_009716	-1.06041
Mus musculus olfactory receptor 807 (Olf807), mRNA [NM_146929]	NM_146929	1.03866
Mus musculus cDNA sequence BC058738 (BC058738), mRNA [NM_198305]	NM_198305	1.18146
Unknown		1.07874
cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)	NM_007670	1.00055
Unknown		1.10254
Mus musculus RIKEN cDNA 2310057M21 gene (2310057M21Rik), mRNA [NM_	NM_026655	-1.10821
Mus musculus peptidylglycine alpha-amidating monooxygenase COOH-termina	NM_146240	1.07716
Mus musculus RIKEN cDNA 2610203E10 gene (2610203E10Rik), mRNA [NM_	NM_183220	-1.10988
PDZ and LIM domain 1 (elfin)	NM_016861	-1.19629
Mus musculus hepatitis A virus cellular receptor 1 (Havcr1), mRNA [NM_13424	NM_134248	1.04215
Unknown		1.11814
Unknown		-1.06295
Mus musculus cDNA sequence BC002059 (BC002059), mRNA [NM_145397]	NM_145397	-1.56915
Glycogen synthase kinase 3 beta	BC032976	1.01151
Mus musculus cDNA sequence BC048937 (BC048937), mRNA [NM_177580]	NM_177580	1.03859
Unknown		1.02155
DnaJ (Hsp40) homolog, subfamily A, member 1	NM_008298	-1.61932
RIKEN cDNA 4632415L05 gene	AK014580	-1.08295
Mus musculus RIKEN cDNA 1200002N14 gene (1200002N14Rik), mRNA [NM_	NM_027878	-1.06117
hypothetical protein, MGC:7035	NM_030258	1.05645

Mus musculus solute carrier family 29 (nucleoside transporters), member 4 (Slc; NM_146257		1.06814
Mus musculus empty spiracles homolog 2 (Drosophila) (Emx2), mRNA [NM_010132		1.17879
Unknown		1.31257
double C2, gamma	NM_021791	1.11048
CDC like kinase 4	NM_007714	-1.26722
uo47h09.x1 NCI_CGAP_Lu29 Mus musculus cDNA clone IMAGE:2645729 3' siAW214415		1.11039
Unknown		-1.02193
adaptor protein complex AP-2, mu1	NM_009679	-1.02249
Mus musculus cDNA sequence BC023957 (BC023957), mRNA [NM_172257]	NM_172257	-1.24983
importin beta	NM_008379	1.00036
RIKEN cDNA 1110030O19 gene	AK003996	1.07038
xeroderma pigmentosum, complementation group A	NM_011728	-1.35977
Mus musculus ring finger protein 36 (Rnf36), mRNA [NM_080510]	NM_080510	1.08791
Gene model 78, (NCBI)	AK045478	-1.11683
Mus musculus olfactory receptor 1006 (Olfr1006), mRNA [NM_146570]	NM_146570	1.09806
Similar to T cell receptor beta-chain	L37871	1.00974
Unknown		1.09507
Nyctalopin	AK038912	1.0002
RAD51 homolog (S. cerevisiae)	NM_011234	1.02463
Mus musculus RIKEN cDNA 1110019N10 gene (1110019N10Rik), mRNA [NM_026753	NM_026753	1.03147
chaperonin subunit 6a (zeta)	NM_009838	-1.22531
DNA segment, Chr 1, ERATO Doi 471, expressed	BC035277	-1.06042
Mus musculus DNA segment, Chr 2, ERATO Doi 145, expressed (D2Ert145e),	NM_175238	-1.04934
Mus musculus TCDD-inducible poly(ADP-ribose) polymerase (Tiparp), mRNA [NM_178892	NM_178892	-1.20738
RIKEN cDNA 2010016F01 gene	NM_023649	-1.06788
Unknown		1.00081
thymic stromal cotransporter	NM_021053	-1.00982
Mus musculus vomeronasal 1 receptor, G9 (V1rg9), mRNA [NM_134210]	NM_134210	1.02981
RIKEN cDNA 1110030H18 gene	AK082744	1.01289
TOLLIP protein	NM_023764	-1.06981
Unknown		1.05014
actin-related protein T1	NM_028514	-1.2683
Mus musculus kaptin (Kptn), mRNA [NM_133727]	NM_133727	1.07081
Mitochondrial ribosomal protein L21	AK003285	-1.39916
Mus musculus expressed sequence AI427100 (AI427100), mRNA [NM_178912	NM_178912	1.09863
CD160 antigen	NM_018767	1.13032
Mus musculus ubiquitin-conjugating enzyme variant Kua (Kua), mRNA [NM_145538	NM_145538	-1.06353
Mus musculus expressed sequence AI043088 (AI043088), mRNA [NM_198613	NM_198613	-1.31964
nudix (nucleoside diphosphate linked moiety X)-type motif 5	NM_016918	-1.24455
Mus musculus RIKEN cDNA 1110011D13 gene (1110011D13Rik), mRNA [NM_029095	NM_029095	1.03525
Recombining binding protein suppressor of hairless (Drosophila)	NM_009035	1.15401
Unknown		1.03161
ui80c08.x1 Sugano mouse liver mlia Mus musculus cDNA clone IMAGE:188871 AI303461		1.22746
Mus musculus killer cell lectin-like receptor, subfamily A, member 17 (Klra17), mRNA [NM_133203	NM_133203	1.02976
RIKEN cDNA A230109K23 gene	AK020723	-1.15117
M. musculus (MORO) POU-III mRNA.	Z29638	-1.1118
Mus musculus RIKEN cDNA 2810039F03 gene (2810039F03Rik), mRNA [NM_172859	NM_172859	-1.09505
Mus musculus protocadherin alpha 1 (Pcdha1), mRNA [NM_054072]	NM_054072	-1.23248
Ubiquitin associated and SH3 domain containing, A	BC027561	1.02166
RIKEN cDNA C630007C17 gene	AK049881	-1.15324
cryptochrome 1 (photolyase-like)	NM_007771	-1.02069
C-type lectin domain family 3, member b	NM_011606	-1.00402

Unknown		1.05182
Mus musculus dual specificity phosphatase 4 (Dusp4), mRNA [NM_176933]	NM_176933	1.15717
Mus musculus spastic paraplegia 21 homolog (human) (Spg21), mRNA [NM_138584]	NM_138584	1.00572
transcription factor Dp 1	NM_009361	-1.08108
RIKEN cDNA 5730518J08 gene	NM_025683	-1.32891
fibroblast growth factor 14	NM_010201	1.03789
RIKEN cDNA 1700084J12 gene	AK006993	-1.05696
uq83d03.x1 NCI_CGAP_Lu33 Mus musculus cDNA clone IMAGE:2937701 3' si	AW476024	1.04238
Expressed sequence AI425999	BQ174439	1.05357
RIKEN cDNA D730049H07 gene	BC023149	1.03623
elastin	NM_007925	-1.11485
Mus musculus RIKEN cDNA D330012D11 gene (D330012D11Rik), mRNA [NM_172793]	NM_172793	-1.08321
Mus musculus cDNA sequence BC032204 (BC032204), mRNA [NM_153795]	NM_153795	-1.20086
Mus musculus calcium channel, voltage-dependent, L type, alpha 1D subunit (C602374365F1 NIH_MGC_94 Mus musculus cDNA clone IMAGE:4481584 5', mRNA [NM_028981]	NM_028981	1.07269
602374365F1 NIH_MGC_94 Mus musculus cDNA clone IMAGE:4481584 5', mRNA [BG342274]	BG342274	-1.03112
RIKEN cDNA 1810033B17 gene	AK087121	-1.43539
RIKEN cDNA 1700095N21 gene	NM_029682	-1.19425
Mus musculus RIKEN cDNA 1110014F24 gene (1110014F24Rik), mRNA [NM_172899]	NM_172899	1.00235
Mus musculus vomeronasal 1 receptor, E2 (V1re2), mRNA [NM_134191]	NM_134191	-1.30709
doublesex and mab-3 related transcription factor 1	NM_015826	1.13661
Mus musculus RIKEN cDNA 0610033I05 gene (0610033I05Rik), mRNA [NM_030243]	NM_030243	1.27627
Mus musculus RIKEN cDNA C030048B08 gene (C030048B08Rik), mRNA [NM_172991]	NM_172991	-1.21321
Expressed sequence AI413582	BC028464	-1.08328
tubulin, beta 3	NM_023279	1.09425
CD38 antigen	NM_007646	-1.11963
Mus musculus nuclear receptor coactivator 6 interacting protein (Ncoa6ip), mRNA [NM_054089]	NM_054089	1.11557
Mus musculus RIKEN cDNA 1500041J02 gene (1500041J02Rik), mRNA [NM_026424]	NM_026424	-1.39078
glutamic acid decarboxylase 1	NM_008077	1.03425
Inhibitor of Bruton agammaglobulinemia tyrosine kinase	AK129353	-1.06542
Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, NM_019563	NM_019563	1.09781
H2A histone family, member Y3	AK032636	1.26171
Fetal Alzheimer antigen	AK079162	-1.13267
RIKEN cDNA 4930570C03 gene	NM_026353	1.15239
RIKEN cDNA 1810027O10 gene	CA491069	1.01581
aldehyde dehydrogenase family 1, subfamily A2	NM_009022	1.04937
Potassium inwardly-rectifying channel, subfamily J, member 1	NM_019659	1.03705
RIKEN cDNA B230220E17 gene	AK045672	1.02474
Mus musculus cDNA sequence BC002199 (BC002199), mRNA [NM_145964]	NM_145964	-1.14871
hypothetical protein, MGC: 7237	NM_030251	-1.36245
Mus musculus adult retina cDNA, RIKEN full-length enriched library, clone:A930	AK044277	-1.27559
tumor rejection antigen gp96	NM_011631	-1.10905
sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane	NM_009154	1.00624
Mus musculus RIKEN cDNA 4632419K20 gene (4632419K20Rik), mRNA [NM_199009]	NM_199009	1.04023
Unknown		1.06744
CD226 antigen	AF416980	-1.28202
RAB27b, member RAS oncogene family	NM_030554	-1.35352
Mus musculus sodium channel, voltage-gated, type VI, alpha polypeptide (Scn7)	NM_009135	-1.08573
J domain protein 1	NM_013888	-1.12471
polymyositis/scleroderma autoantigen 2	NM_016699	-1.03354
SH3 domain protein 2 C1	NM_017400	1.07354
glutamate receptor, ionotropic, kainate 2 (beta 2)	NM_010349	-1.01213
tight junction protein 3	NM_013769	1.06327

Mus musculus olfactory receptor 393 (Olf393), mRNA [NM_147008]	NM_147008	-1.03055
Mus musculus ubiquitin specific protease 39 (Usp39), mRNA [NM_138592]	NM_138592	-1.05597
Rho guanine nucleotide exchange factor (GEF) 17	AK033211	1.11058
Unknown		1
endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor 4	NM_020028	1.08936
Mus musculus RIKEN cDNA 4930556B16 gene (4930556B16Rik), mRNA [NM_NM_172421		1.08215
AE006640 heparan sulphate D-glucosaminyl 3-O-sulfotransferase-3B like {Homo sapiens}, par		1.02405
Zinc finger protein 133	AF332089	1.03744
Mus musculus RIKEN cDNA 2310047C17 gene (2310047C17Rik), mRNA [NM_NM_175108		-1.05566
hypothetical protein, MNCb-1213	NM_020585	-1.74619
Carboxypeptidase, vitellogenic-like	AK017087	1.1001
Unc-13 homolog D (C. elegans)	AK011827	1.22238
gap junction membrane channel protein beta 2	NM_008125	1.04165
Mus musculus cDNA sequence BC037393 (BC037393), mRNA [NM_201369]	NM_201369	1.12093
RAD51-like 3 (S. cerevisiae)	NM_011235	1.0614
Mus musculus RIKEN cDNA 2810432L12 gene (2810432L12Rik), mRNA [NM_(NM_025944		1.15651
RIKEN cDNA 2610009E16 gene	BC052052	1.40351
Solute carrier family 35, member D3	AK047610	-1.04549
Protein phosphatase 4, regulatory subunit 1	BC029761	-1.02614
Wolf-Hirschhorn syndrome candidate 1 (human)	BC046473	1.14353
Unknown		1.18787
testis lipid binding protein	NM_011598	1.08648
Mus musculus RIKEN cDNA 2310008H04 gene (2310008H04Rik), mRNA [NM_NM_146068		-1.03878
Unknown		-1.05557
Mus musculus RIKEN cDNA 3632413B07 gene (3632413B07Rik), mRNA [NM_NM_172270		-1.2155
Son of sevenless homolog 1, (Drosophila)	NM_009231	1.50576
ectoplacental cone, invasive trophoblast giant cells, extraembryonic ectoderm a	NM_025310	-1.16511
Importin 8	BC027360	-1.07884
Mus musculus double C2, alpha (Doc2a), mRNA [NM_010069]	NM_010069	1.05267
Mus musculus zinc finger, DHHC domain containing 1 (Zdhhc1), mRNA [NM_17NM_175160		1.26337
RIKEN cDNA A130095M15 gene	BC003826	1.09897
iroquois related homeobox 5 (Drosophila)	NM_018826	1.07728
bromodomain-containing 4	NM_020508	1.08697
Mus musculus RIKEN cDNA 1200014P05 gene (1200014P05Rik), mRNA [NM_NM_028765		1.06783
Mus musculus a disintegrin and metalloprotease domain 32 (Adam32), mRNA [I	NM_153397	1.04774
Mus musculus similar to cytochrome P450 CYP2B21 (LOC243881), mRNA [XM XM_145466		1.00965
Mus musculus prostaglandin D2 synthase (brain) (Ptgds), mRNA [NM_008963]	NM_008963	1.09469
ribosomal protein S29	NM_009093	-1.20944
Myosin IF	X97650	1.07789
RIKEN cDNA C330046G03 gene	AK082868	1.10194
RIKEN cDNA 1700027A23 gene	AK006407	-1.08814
Mus musculus olfactory receptor 774 (Olf774), mRNA [NM_207620]	NM_207620	1.03186
RIKEN cDNA 1200007D18 gene	NM_026170	-1.20061
Centaurin, gamma 3	BG060605	1.01422
Mus musculus leucyl/cystinyl aminopeptidase (Lnpep), mRNA [NM_172827]	NM_172827	-1.11656
Unknown		1.10616
upstream transcription factor 1	NM_009480	-1.06181
poly(rC)-binding protein 4	NM_021567	1.13766
Phosphodiesterase 2A, cGMP-stimulated	BC006845	1.05868
Similar to hypothetical protein MGC26996; chromosome 6 open reading frame 1	BQ935147	1.01649
complement component 6	NM_016704	1.16488
Inositol hexaphosphate kinase 1	AF177144	1.03153

Mus musculus growth differentiation factor 10 (Gdf10), mRNA [NM_145741]	NM_145741	-1.00323
SRY-box containing gene 2	NM_011443	-1.24855
mitochondrial ribosomal protein L17	NM_025301	-1.08571
Mus musculus heterogeneous nuclear ribonucleoprotein R (Hnrpr), mRNA [NM_028871]	NM_028871	-1.21589
RIKEN cDNA 2700059D21 gene	AK004133	-1.81447
Unknown		-1.0482
TAO kinase 1	BC016522	1.01901
Mus musculus butyryl Coenzyme A synthetase 1 (Bucs1), mRNA [NM_054094]	NM_054094	1.21319
RIKEN cDNA 1700010B08 gene	AK005811	1.02095
RW1 protein	NM_018872	-1.302
palmitoyl-protein thioesterase 2	NM_019441	1.02173
RIKEN cDNA 1110058B13 gene	NM_025412	1.05664
neural precursor cell expressed, developmentally down-regulated gene 9	NM_017464	-1.64635
RIKEN cDNA C330024D12 gene	AK021221	1.03356
Mus musculus kelch-like 11 (Drosophila) (Klh11), mRNA [NM_172565]	NM_172565	-1.0671
deiodinase, iodothyronine type III, antisense	AY283181	1.13685
RIKEN cDNA 4933412E24 gene	AK016789	1.05735
Mus musculus electron transferring flavoprotein, alpha polypeptide (Etf), nuclear DNA [NM_145615]	NM_145615	-1.75295
kinesin 17	NM_010623	1
Unknown		-1.07527
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subunit 1 (SMARCA4), mRNA [AF325921]	AF325921	1.00653
Mus musculus cDNA sequence BC040823 (BC040823), mRNA [NM_177727]	NM_177727	-1.10551
Spermatogenesis and centriole associated 1	AK006994	1.09978
T-cell expressing clone j6	NM_011596	1.06321
brain cDNA 7	NM_020267	1.08371
serine/threonine kinase 13 (aurora/IPL-like)	NM_020572	1.02602
RIKEN cDNA A530017D24 gene	AK040705	-1.34121
RIKEN cDNA 2410044J15 gene	NM_024175	-1.1646
Mus musculus protein phosphatase 2, regulatory subunit B (B56), alpha isoform	NM_144880	-1.0229
Solute carrier family 22 (organic anion transporter), member 19	AK052752	-1.0624
RIKEN cDNA 4930546H06 gene	AK016052	1.06559
Mus musculus RIKEN cDNA 9130020K17 gene (9130020K17Rik), mRNA [NM_183106]	NM_183106	-1.02217
enolase 1, alpha non-neuron	NM_023119	1.37779
solute carrier family 23, (nucleobase transporters), member 1	NM_018824	1.06645
hyperpolarization-activated, cyclic nucleotide-gated K ⁺ 1	NM_010408	1.0851
Mus musculus Rho, GDP dissociation inhibitor (GDI) beta (Arhgdib), mRNA [NM_007486]	NM_007486	-1.11878
UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2	NM_020025	-1.04347
OLFACTORY RECEPTOR GA_X6K02T2PVTD-12724921-12725859. [Source:SPTREMBL;Accession:U000000000]		-1.05245
opsin (encephalopsin)	NM_010098	-1.21016
phosphatidylserine synthase 1	NM_008959	1.0567
RIKEN cDNA 1700037H04 gene	NM_026091	-1.0278
603355477F1 NIH_MGC_94 Mus musculus cDNA clone IMAGE:5362674 5', mRNA [BI732573]	BI732573	1.08079
H3051G09-5 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3051G09-5	BG080279	1.03428
Unknown		1.27809
RIKEN cDNA 4932411G06 gene	AK016519	-1.01468
deubiquitinating enzyme 1	NM_007887	1.0233
solute carrier family 17 (sodium/hydrogen exchanger), member 1	NM_009198	1.11649
Expressed sequence C87436	BC026926	-1.18167
ribosomal protein S6 kinase polypeptide 1	NM_009097	-1.05533
Actin-binding LIM protein 2	AK046879	1.08755
RIKEN cDNA 2310005G07 gene	NM_025514	-1.18011
Mus musculus doublesex and mab-3 related transcription factor like family A1 (DMRT1), mRNA [NM_175647]	NM_175647	1.08633

lymphocyte antigen 94	NM_010746	-1.09079
Unknown		1
602109696F1 NCI_CGAP_Kid14 Mus musculus cDNA clone IMAGE:4238087 5BF783780		1.14241
alcohol dehydrogenase 3 complex	NM_009626	-1.3192
flavin containing monooxygenase 1	NM_010231	-1.06457
Mus musculus similar to P45016a-ms2 (LOC381019), mRNA [XM_354925]	XM_354925	1.67086
formyl peptide receptor, related sequence 4	NM_008041	-1.15297
Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 34 (Dhx34), mRNA [NM_027883]	NM_027883	1.06726
Mus musculus cAMP responsive element binding protein 5 (Creb5), mRNA [NM_172728]	NM_172728	-1.01391
Hypothetical protein B930074I24	AK122391	-1.03654
Mus musculus RIKEN cDNA 4930422J18 gene (4930422J18Rik), mRNA [NM_029035]	NM_029035	-1.15388
Mus musculus RIKEN cDNA 4932408B21 gene (4932408B21Rik), mRNA [NM_172535]	NM_172535	1.14047
Nuclear factor, erythroid derived 2,-like 1	X78709	1.01003
Mus musculus phospholipase D1 (Plid1), mRNA [NM_008875]	NM_008875	-1.05363
Mus musculus cDNA sequence BC050188 (BC050188), mRNA [NM_177742]	NM_177742	1
Kinesin family member 24	BC067395	-1.09319
v-maf musculoaponeurotic fibrosarcoma oncogene family, protein G (avian)	NM_010756	1.61363
interferon gamma inducing factor binding protein	NM_010531	1.00528
discoïdin domain receptor family, member 2	NM_022563	1.20241
blood vessel epicardial substance	NM_024285	-1.36603
Mus musculus olfactory receptor 1065 (Olfr1065), mRNA [NM_146408]	NM_146408	-1.02179
Mus musculus RIKEN cDNA 2310011J03 gene (2310011J03Rik), mRNA [NM_025521]	NM_025521	-1.08321
Mus musculus ubiquitin-associated protein 2 (Ubp2), mRNA [NM_026872]	NM_026872	-1.00328
Protease, serine, 32	BC024903	-1.02253
SET domain, bifurcated 1	NM_018877	1.10866
Mus musculus tRNA nucleotidyl transferase, CCA-adding, 1 (Trnt1), mRNA [NM_027296]	NM_027296	-1.49975
Lin-9 homolog (C. elegans)	AK089989	1.01846
Mus musculus RIKEN cDNA 1110033G01 gene (1110033G01Rik), mRNA [NM_172571]	NM_172571	1.04873
Mus musculus olfactory receptor 635 (Olfr635), mRNA [NM_147118]	NM_147118	1.07028
glutathione reductase 1	NM_010344	-1.26613
CDNA sequence BC006909	BC006909	1.02961
RIKEN cDNA 9530090G24 gene	AK029164	1.03288
OLFACTORY RECEPTOR GA_X6K02T2QGN0-3196801-3197742. [Source:SPTREMBL;Accession:NM_007556]	NM_007556	1.05306
bone morphogenetic protein 6	NM_007556	1.1616
Mus musculus protocadherin alpha 3 (Pcdha3), mRNA [NM_138662]	NM_138662	1.13004
prolactin-like protein M	NM_019991	1.0144
Mus musculus transportin 1 (Tnp1), mRNA [NM_178716]	NM_178716	1.09216
thrombospondin 4	NM_011582	1.0071
Mus musculus RIKEN cDNA 4921526K24 gene (4921526K24Rik), mRNA [NM_025731]	NM_025731	1.15237
ATPase, H+ transporting, lysosomal (vacuolar proton pump) noncatalytic access:NM_016920	NM_016920	1.19399
Arrestin domain containing 2	BC054826	-1.03966
RIKEN cDNA 4933417K05 gene	AK008240	-1.35162
Mus musculus heparanase (Hpse), mRNA [NM_152803]	NM_152803	1.06562
Unknown		-1.00864
Unknown		1.00638
Mus musculus SRY-box containing gene 21 (Sox21), mRNA [NM_145464]	NM_145464	-1.01527
cyclin F	NM_007634	1.07955
AGENCOURT_10616928 NIH_MGC_169 Mus musculus cDNA clone IMAGE:6;BU962331	BU962331	1.18618
integrin alpha 7	NM_008398	1.02521
RIKEN cDNA 1810046K07 gene	AK007796	-1.02029
Unknown		1.05714
GATA-binding protein 3	NM_008091	-1.03593

fibroblast activation protein	NM_007986	-1.37506
tubulin alpha 1	NM_011653	-1.04483
Unknown		1.33106
RIKEN cDNA C130073D16 gene	AK019772	-1.06609
Mus musculus queuine tRNA-ribosyltransferase domain containing 1, mRNA [c]	BC017628	-1.0116
Mus musculus RIKEN cDNA 2810431N21 gene (2810431N21Rik), mRNA [NM_	NM_144920	-1.3536
Mus musculus cDNA sequence AF067063 (AF067063), mRNA [NM_00100144	NM_00100144	1.09552
Unknown		-1.0312
hemoglobin alpha, adult chain 1	NM_008218	
Son of sevenless homolog 2 (Drosophila)	Z11664	-1.66951
RIKEN cDNA 4933421B21 gene	AK082627	-1.00165
Zinc finger protein 324	AK054407	1.05058
interleukin 1 receptor-like 1	NM_010743	1.03923
RIKEN cDNA 3321401G04 gene	BC043304	1.09005
Mus musculus 18-day embryo whole body cDNA, RIKEN full-length enriched lib	AK003924	1.16135
Plexin A4	AK051614	1.28818
coatamer protein complex, subunit gamma 1	NM_017477	-1.0679
Mus musculus RIKEN cDNA 1700024B05 gene (1700024B05Rik), mRNA [NM_	NM_029322	1.1457
Mus musculus orthodenticle homolog 1 (Drosophila) (Otx1), mRNA [NM_01102	NM_011023	-1.10497
Mus musculus zinc finger, CCHC domain containing 8 (Zcchc8), mRNA [NM_02	NM_027494	1.10368
Mus musculus G protein-coupled receptor 64 (Gpr64), mRNA [NM_178712]	NM_178712	1.06672
Mus musculus olfactory receptor 1058 (Olfr1058), mRNA [NM_146391]	NM_146391	-1.03656
RIKEN cDNA 9630007J19 gene	AK035816	-1.06298
RIKEN cDNA 4732417M03 gene	AK076431	1.0078
arginine vasopressin receptor 1A	NM_016847	1.06615
RIKEN cDNA 2610042L04 gene	AK049619	-1.00792
Mus musculus TAF7-like RNA polymerase II, TATA box binding protein (TBP)-a	NM_028958	-1.05344
Mus musculus similar to HMG-1 (LOC384082), mRNA [XM_357408]	XM_357408	-1.20061
Mus musculus olfactory receptor 1097 (Olfr1097), mRNA [NM_146843]	NM_146843	1.02619
MITOCHONDRIAL IMPORT RECEPTOR SUBUNIT TOM20 HOMOLOG (MITOCHONDRIAL 2		-1.46357
Ring finger and WD repeat domain 3	NM_146218	-1.10782
Mus musculus RIKEN cDNA 9130218O11 gene (9130218O11Rik), mRNA [NM_	NM_177820	-1.11755
oxysterol binding protein 2	NM_024289	1.21
ataxia telangiectasia gene mutated in human beings	NM_007499	-1.00838
U2 small nuclear ribonucleoprotein auxiliary factor (U2AF), 35 kDa, related sequ	NM_011663	-1.23394
Mus musculus RIKEN cDNA A830014H24 gene (A830014H24Rik), mRNA [NM_	NM_176958	1.02341
Neuronal growth regulator 1	AK030503	-1.09049
survival motor neuron	NM_011420	1.00718
CD33 antigen	NM_021293	1.01697
Mus musculus RIKEN cDNA 5430435G22 gene (5430435G22Rik), mRNA [NM_	NM_145509	-1.26643
Mus musculus F-box and leucine-rich repeat protein 5 (Fbxl5), mRNA [NM_178	NM_178729	-1.10692
Mus musculus lysophospholipase-like 1 (Lyp1l1), mRNA [NM_146106]	NM_146106	-1.28962
RIKEN cDNA 4930447F04 gene	AK015402	1.15248
Mus musculus zinc finger CCCH type domain containing 1 (Zc3hdc1), mRNA [N	NM_172893	-1.01531
heterogeneous nuclear ribonucleoprotein C	NM_016884	-1.16053
Unknown		1.27841
lectin, galactose binding, soluble 9	NM_010708	1.02022
Mus musculus chromobox homolog 7 (Cbx7), mRNA [NM_144811]	NM_144811	1.00697
Tankyrase 1 binding protein 1	BC025943	-1.19
Mus musculus RIKEN cDNA A830039N20 gene (A830039N20Rik), mRNA [NM_	NM_175545	-1.00284
Mus musculus death-associated protein (Dap), mRNA [NM_146057]	NM_146057	-1.01446
RIKEN cDNA 4933428D01 gene	AK016963	-1.03113

pituitary tumor-transforming 1	NM_013917	-1.05664
Transcribed locus, weakly similar to XP_540679.1 PREDICTED: similar to olfacto	CB172893	1.01315
Mus musculus RIKEN cDNA 9130017A15 gene (9130017A15Rik), mRNA [NM_	NM_177242	-1.00918
zinc finger protein of the cerebellum 1	NM_009573	1.0568
Mus musculus A kinase (PRKA) anchor protein (yotiao) 9 (Akap9), mRNA [NM_	NM_194462	1.14844
RIKEN cDNA 4933439F11 gene	NM_025766	1.11043
Unknown		1.03513
Friedreich ataxia	NM_008044	1.06379
exotoses (multiple)-like 2	NM_021388	-1.22399
Coiled-coil alpha-helical rod protein 1	BC018431	1.03652
Unknown		1.06115
CDNA, clone:Y2G0138J04, strand:unspecified	BE992497	1.06814
aldo-keto reductase family 1, member A4 (aldehyde reductase)	NM_021473	-1.08216
Pterin 4 alpha carbinolamine dehydratase/dimerization cofactor of hepatocyte n	AK012465	-1.25188
E2F transcription factor 6	NM_033270	-1.28241
Mus musculus solute carrier family 15 (oligopeptide transporter), member 1 (Slc	NM_053079	1.00812
Mus musculus cDNA clone IMAGE:4212356.	BC012634	-1.15998
Protein phosphatase 1, regulatory (inhibitor) subunit 15b	BC006897	-1.08667
RIKEN cDNA 1810013L24 gene	AK007485	1.00263
sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (sem	NM_009153	-1.15234
Mus musculus zinc and ring finger 1 (Znrf1), mRNA [NM_133206]	NM_133206	-1.27127
Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 33 (Dhx33), mRNA [NM	NM_178367	1.05349
Thyroid hormone receptor interactor 11	BC025876	-1.65667
Mus musculus stress 70 protein chaperone, microsomal-associated, human hor	NM_030201	1.04529
Mus musculus kallikrein 9 (Klk9), mRNA [NM_010116]	NM_010116	1.06893
macrophage stimulating 1 receptor (c-met-related tyrosine kinase)	NM_009074	-1.10213
Phosphatidylinositol 4-kinase type 2 alpha	AK030725	-1.05578
Pleckstrin homology domain containing, family G (with RhoGef domain) membe	AK122468	-1.04902
Unknown		-1.05027
protein phosphatase 1D magnesium-dependent, delta isoform	NM_016910	-1.00754
Mus musculus cDNA sequence BC004636 (BC004636), mRNA [NM_145524]	NM_145524	1.02803
Mus musculus transformation related protein 53 binding protein 1 (Trp53bp1), m	NM_013735	-1.09816
Mus musculus cytochrome P450, family 2, subfamily j, polypeptide 11 (Cyp2j1)	XM_131521	-1.00924
hypothetical protein [1520402A15]		1.09443
Mus musculus DNA segment, Chr 9, ERATO Doi 280, expressed (D9Ert280e),	NM_177775	1.01187
Mus musculus hypothetical protein 9530011P19 (9530011P19), mRNA [XM_19	XM_197335	1.03609
Discs, large (Drosophila) homolog-associated protein 1	BC062120	1.02025
Mus musculus mel-13b transcript.	U35310	1
c-myc binding protein	NM_019660	-1.48873
potassium inwardly-rectifying channel, subfamily J, member 2	NM_008425	1.06245
Expressed sequence AI851464	BC026366	-1.05306
Mus musculus cDNA sequence BC028975 (BC028975), mRNA [NM_146254]	NM_146254	-1.06806
gene for odorant receptor MOR83	NM_020514	1.03602
Mus musculus RIKEN cDNA 4933417K05 gene (4933417K05Rik), mRNA [NM_	NM_175488	1.01373
Mus musculus RIKEN cDNA 1110032A04 gene (1110032A04Rik), mRNA [NM_	NM_133675	-1.88197
Mus musculus cDNA sequence BC061259 (BC061259), mRNA [NM_198424]	NM_198424	1.09033
frizzled homolog 7 (Drosophila)	NM_008057	1.13806
Mus musculus solute carrier family 10 (sodium/bile acid cotransporter family), m	NM_145406	-1.31537
Mouse cAMP-dependent protein kinase type II beta regulatory subunit gene, ex	M68861	1.06979
mast cell protease 7	NM_031187	1.11519
Ankyrin repeat domain 27 (VPS9 domain)	BF682171	1.02741
small inducible cytokine subfamily B (Cys-X-Cys), member 11	NM_019494	1.14661

Yamaguchi sarcoma viral (v-yes-1) oncogene homolog	BC031547	1.05381
Mus musculus BRF1 homolog, subunit of RNA polymerase III transcription initia	NM_028193	-1.20631
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK016918		-1.00525
period homolog 2 (Drosophila)	NM_011066	-1.28473
Mus musculus serine active site containing 1 (Serac1), mRNA [NM_177311]	NM_177311	1.04318
Unknown		-1.03501
Mus musculus RIKEN cDNA 5031410I06 gene (5031410I06Rik), mRNA [NM_21NM_207657		1.00068
OLFACTORY RECEPTOR GA_X6K02T2NBG7-5440777-5441736. [Source:SPTREMBL;Acc:C		1.11057
RIKEN cDNA E430021N18 gene	BC021842	1.15496
mab64d10.y1 Soares_thymus_2NbMT Mus musculus cDNA clone IMAGE:3975 BF721230		-1.16861
Unknown		-1.04923
Mus musculus SH3 domain containing ring finger 2 (Sh3rf2), mRNA [NM_17296	NM_172966	-1.10198
RIKEN cDNA A930040G15 gene	AB041543	-1.06064
Mus musculus FK506 binding protein 9 (Fkbp9), mRNA [NM_012056]	NM_012056	-1.57238
RIKEN cDNA 1700001D09 gene	BF321326	1.1514
RIKEN cDNA B430319H21 gene	AK021026	1.02906
solute carrier family 26, member 3	NM_021353	1
MKIAA0167 protein	BM942840	1.37594
general control of amino acid synthesis-like 1 (yeast)	NM_015740	-1.13767
RIKEN cDNA 1700018L24 gene	BC049746	-1.06356
Unknown		1
Mus musculus peroxisomal biogenesis factor 6 (Pex6), mRNA [NM_145488]	NM_145488	-1.06344
RIKEN cDNA 1500010M24 gene	AK005193	-1.11491
RIKEN cDNA 1700007K13 gene	AK005731	-1.10851
histocompatibility 2, blastocyst	NM_008199	1.02977
Cell division cycle 2-like 5 (cholinesterase-related cell division controller)	AK009373	-1.19455
Immunoglobulin kappa chain, constant region	AF240172	1.05608
neuronal pentraxin 1	NM_008730	1.17171
Expressed sequence AI324046	BC024405	1.14494
membrane cofactor protein	NM_010778	1.1213
Mus musculus macrophage galactose N-acetyl-galactosamine specific lectin 1 (	NM_010796	-1.0206
RIKEN cDNA 2310026N09 gene	NM_023517	-1.17921
RPB5-mediating protein	NM_011274	-1.13009
cellular retinoic acid binding protein I	NM_013496	-1.02435
Mus musculus WD repeat domain 5B (Wdr5b), mRNA [NM_027113]	NM_027113	-1.33725
Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clon	AK009121	1.54424
component of Sp100-rs	NM_033616	1.10095
cytochrome P450, 2g1	NM_013809	1.0761
male enhanced antigen 1	NM_010787	1.06066
nuclear receptor subfamily 4, group A, member 2	NM_013613	1.00606
Mus musculus RIKEN cDNA 9130011B11 gene (9130011B11Rik), mRNA [NM_	NM_178715	-1.7628
Williams Beuren syndrome chromosome region 21	NM_145215	-1.20961
tissue inhibitor of metalloproteinase 2	NM_011594	1.23677
Mus musculus ABI gene family, member 3 (Abi3), mRNA [NM_025659]	NM_025659	-1.1816
Mus musculus tubulin, gamma 2 (Tubg2), mRNA [NM_134028]	NM_134028	1.09848
Congenital dyserythropoietic anemia, type I (human)	AK034144	-1.03614
Mus musculus RIKEN cDNA 1300004K21 gene (1300004K21Rik), mRNA [NM_	NM_175124	1.07729
OLFACTORY RECEPTOR GA_X6K02T2Q125-48226321-48225386. [Source:SPTREMBL;Acc		1.02149
Mus musculus syntaphilin (Snph), mRNA [NM_198214]	NM_198214	1.27082
Defensin related sequence cryptdin peptide (paneth cells)	NM_007844	1.12318
hematological and neurological expressed sequence 1	NM_008258	-1.12725
RIKEN cDNA 1010001C05 gene	NM_026310	-1.43298

Mus musculus unknown mRNA.	AF248056	-1.01041
Mus musculus major vault protein (Mvp), mRNA [NM_080638]	NM_080638	-1.02385
Mus musculus defensin beta 35 (Defb35), mRNA [NM_139224]	NM_139224	-1.10576
Nucleotide binding protein-like	AK010827	-1.16878
AGENCOURT_10126565 NCI_CGAP_Co24 Mus musculus cDNA clone IMAGE	BU524051	1.12166
integrin beta 1 binding protein 2	NM_013712	-1.20081
cytochrome P450, 2c39	NM_010003	1.01775
early B-cell factor associated zinc finger protein	NM_033327	1.31881
Unknown		1
Mus musculus cDNA sequence BC025575 (BC025575), mRNA [NM_199200]	NM_199200	1.0281
claudin 2	NM_016675	1.05024
RIKEN cDNA C230081A13 gene	BC027695	1.07421
small inducible cytokine A12	NM_011331	-1.0026
Mus musculus similar to T-cell receptor beta-chain (LOC381763), mRNA [XM_3	XM_355759	-1.14214
RIKEN cDNA 2310001H13 gene	BC058971	-1.46008
Mus musculus adult male diencephalon cDNA, RIKEN full-length enriched librar	AK034498	1.04353
neuraminidase 1	NM_010893	1.05838
RIKEN cDNA 1700096K18 gene	AK047471	-1.05403
karyopherin (importin) alpha 3	NM_008466	-1.29904
RIKEN cDNA 1110060F11 gene	NM_026395	-1.8801
Transmembrane emp24 protein transport domain containing 4	NM_134020	1.09753
Mus musculus heat shock 70kDa protein 5 binding protein 1 (Hspa5bp1), mRNA	NM_133804	-1.05943
RIKEN cDNA 2610001E01 gene	NM_025918	1.06498
RIKEN cDNA A230055J12 gene	AK051766	1.17711
RIKEN cDNA C030032C09 gene	AK034154	-1.13388
Deleted in lymphocytic leukemia, 7	AK082171	1.01114
Mus musculus olfactory receptor 203 (Olfr203), mRNA [NM_146486]	NM_146486	-1.01092
Guanylate cyclase 2g	AK049940	1.00331
Unknown		1.06858
hypothetical protein E130307C13	NM_177688	-1.33715
RIKEN cDNA 1700066C05 gene	AK018881	1.04248
Titin	AK084780	1.0377
Restin-like 2	AK029962	-1.02097
Unknown		1.09615
RIKEN cDNA 1700012L04 gene	AK005922	-1.1432
Mus musculus RIKEN cDNA A630042L21 gene (A630042L21Rik), mRNA [NM_	NM_134134	-1.20134
Mus musculus HIV-1 Rev binding protein 2 (Hrb2), mRNA [NM_178610]	NM_178610	1.04178
602833022F1 NCI_CGAP_Co24 Mus musculus cDNA clone IMAGE:4987540 5	BG966506	1.06557
Mus musculus RIKEN cDNA 1700111I05 gene (1700111I05Rik), transcript vari	NM_194065	1.09134
CD86 antigen	NM_019388	1.10991
Mus musculus vomeronasal 1 receptor, F5 (V1rf5), mRNA [NM_134202]	NM_134202	1.08244
Mus musculus RIKEN cDNA 3632413B07 gene (3632413B07Rik), mRNA [NM_	NM_172270	1.00196
galactosidase, beta 1	NM_009752	-1.28075
lymphocyte antigen 6 complex, locus F	NM_008530	1.12822
Pygopus 2	BC025531	1.0943
Unknown		1.05186
SRY-box containing gene 6	NM_011445	1.02231
CDNA clone MGC:18942 IMAGE:3979577, complete cds	BC031432	1.05597
RIKEN cDNA 0610010K06 gene	BC030340	-3.36664
uq81d01.y1 NCI_CGAP_Lu33 Mus musculus cDNA clone IMAGE:2937505 5' si	AW476689	1.02554
Mus musculus popeye domain containing 3 (Popdc3), mRNA [NM_024286]	NM_024286	-1.07949
RIKEN cDNA 1700129I15 gene	AK005772	1.24078

Zinc finger and BTB domain containing 12	BC020447	1.13162
sporulation protein, meiosis-specific, SPO11 homolog (<i>S. cerevisiae</i>)	NM_012046	1.00572
cystic fibrosis transmembrane conductance regulator homolog	NM_021050	-1.01337
CLIP associating protein 1	AJ276962	1.2421
RAB9, member RAS oncogene family	NM_019773	-1.42412
cone-rod homeobox containing gene	NM_007770	1.00909
RIKEN cDNA 4930415O20 gene	BC048564	1.10505
Calcium binding atopy-related autoantigen 1	AK029884	1.02302
flotillin 1	NM_008027	1.09916
RIKEN cDNA 0610037N12 gene	NM_028753	-1.2194
prolactin-like protein I	NM_013766	1.08065
Unknown		1.02381
Unknown		1.05843
Mus musculus longevity assurance homolog 2 (<i>S. cerevisiae</i>) (Lass2), mRNA [NM_029789		-1.11727
Mus musculus immunoglobulin superfamily, member 4 (Igsf4d), mRNA [NM_178721		-1.06799
Nei like 3 (<i>E. coli</i>)	AK042059	-1.03074
B lymphoid kinase	NM_007549	1.03257
Unknown		-1.08586
RIKEN cDNA 2310057J18 gene	NM_026336	1.0414
RIKEN cDNA C130002M15 gene	BC021827	1.03081
guanine nucleotide binding protein, alpha q polypeptide	NM_008139	-1.18198
F-box protein 15	AF176530	-1.07222
Smoothened homolog (<i>Drosophila</i>)	AF089721	-1.19985
transducer of ERBB2, 2	NM_020507	1.09657
Mus musculus RIKEN cDNA 9030624L02 gene (9030624L02Rik), mRNA [NM_172759		1.08668
APG9 autophagy 9-like 1 (<i>S. cerevisiae</i>)	BC056488	1.06687
Proteasome (prosome, macropain) subunit, beta type 6	BC020370	1.13634
cleavage stimulation factor, 3' pre-RNA subunit 2, 64 kDa, tau	NM_031249	-1.23733
RIKEN cDNA 1700094E07 gene	AK007061	1.00595
potassium large conductance pH-sensitive channel, subfamily M, alpha member	NM_008432	1.06253
Unknown		-1.00082
RIKEN cDNA 4930542N07 gene	NM_029199	1.03412
protocadherin 15	NM_023115	1.04455
lactate dehydrogenase 2, B chain	NM_008492	-1.07024
Anillin, actin binding protein (scraps homolog, <i>Drosophila</i>)	AK046102	-1.02659
ring finger protein 23	NM_024468	-1.02874
Sarcolemma associated protein	AK129403	1.11026
Unknown		-1.60054
ribosomal protein S6 kinase, 90kD, polypeptide 4	NM_019924	-1.01293
Mus musculus RIKEN cDNA 5730469D23 gene (5730469D23Rik), mRNA [NM_172712		1.06224
RIKEN cDNA 5730593N15 gene	BC025832	1.19862
Mus musculus solute carrier family 39 (metal ion transporter), member 11 (Slc39a11)	NM_027216	-1.06253
zinc finger protein, subfamily 1A, 1 (Ikaros)	NM_009578	1.04996
Mus musculus neurexophilin 2 (Nxph2), mRNA [NM_008752]		1.02388
aryl hydrocarbon receptor nuclear translocator-like	NM_007489	1.07903
Mus musculus RIKEN cDNA 2500002L14 gene (2500002L14Rik), mRNA [NM_025607		-1.07337
Unknown		1.09534
RIKEN cDNA 2600013E07 gene	AK045745	1.20763
gap junction membrane channel protein alpha 4	NM_008120	1.14696
CDNA sequence BC027373	BC022600	1.06477
ferritin light chain 1	NM_010240	-1.11045
Phosphatidylinositol glycan, class V	NM_178698	1.07513

Mus musculus RIKEN cDNA 1110014J01 gene (1110014J01Rik), mRNA [NM_029101]		-1.1921
Unknown		-1.12293
CDNA sequence BC053917	AK030867	-1.20822
Mus musculus keratin associated protein 16-7 (Krtap16-7), mRNA [NM_130875]	NM_130875	-1.06586
CELL DIVISION CYCLE 34 HOMOLOG. [Source:RefSeq;Acc:NM_177613] [ENSMUST000000]		1.16985
acid beta glucosidase	NM_008094	-1.07165
zinc finger protein 40	NM_009555	-1.0406
centromere autoantigen B	NM_007682	-1.01181
Msx-interacting-zinc finger	NM_008602	1.05018
makorin, ring finger protein, 3	NM_018754	1.18807
Unknown		-1.10103
Mus musculus olfactory receptor 620 (Olfr620), mRNA [NM_146812]	NM_146812	1.04817
Casein kinase 1, delta	AK004606	1.11606
bassoon	NM_007567	-1.01097
Unknown		-1.05479
Mus musculus RIKEN cDNA 2610029D06 gene (2610029D06Rik), mRNA [NM_030199]	NM_030199	-1.01211
RIKEN cDNA 1300013A03 gene	NM_024264	-1.04254
Unknown		-1.02155
close homolog of L1	NM_007697	1.04743
Mus musculus RIKEN cDNA 4932415G16 gene (4932415G16Rik), mRNA [NM_173023]	NM_173023	-1.12039
fibroblast growth factor 21	NM_020013	1.04238
Mus musculus cDNA sequence BC005764 (BC005764), mRNA [NM_181681]	NM_181681	-1.18081
Unknown		1.01081
Mus musculus tweety homolog 1 (Drosophila) (Ttyh1), mRNA [NM_001001454]	NM_001001454	1.04221
RIKEN cDNA A430019L02 gene	AF084575	-1.08567
Mus musculus lectin, mannose-binding, 1 like (Lman1l), mRNA [NM_146223]	NM_146223	1.02324
Mus musculus, clone IMAGE:4193535, mRNA	BC038040	1.0221
Transcribed locus, strongly similar to NP_006303.1 nuclear receptor co-repressor	AI605781	1.28754
RIKEN cDNA 1810034D23 gene	NM_026467	1.01292
Unknown		1.02965
ribosomal protein L10A	NM_011287	-1.26941
sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (sema)	NM_013657	1.00243
cathepsin C	NM_009982	-1.48343
phosphatidic acid phosphatase type 2c	NM_015817	1.001
myosin Ic	NM_008659	1.18607
Unknown		1.10433
Oxidase assembly 1-like	AK052432	-1.15535
Unknown		1.31307
f-box and WD-40 domain protein 5	NM_013908	1.05993
Mus musculus RIKEN cDNA 5730509K17 gene (5730509K17Rik), mRNA [NM_172274]	NM_172274	-1.09954
Mus musculus differentially expressed in FDCP 6 (Def6), mRNA [NM_027185]	NM_027185	1.05583
Mus musculus RIKEN cDNA 2410008J05 gene (2410008J05Rik), mRNA [NM_153776]	NM_153776	1.03294
Mus musculus RIKEN cDNA 4932439K10 gene (4932439K10Rik), mRNA [NM_153406]	NM_153406	1.04243
RIKEN cDNA 6230415M23 gene	AK017613	-1.09949
RIKEN cDNA 2400004O09 gene	NM_023526	-1.09067
glucose-6-phosphatase, catalytic, related sequence	NM_021331	1.08481
RIKEN cDNA 2700068H02 gene	AK012503	1.02312
Mus musculus synaptopodin 2 (Synpo2), mRNA [NM_080451]	NM_080451	1.02195
Mus musculus homeo box B4 (Hoxb4), mRNA [NM_010459]	NM_010459	1.03363
Mus musculus RIKEN cDNA 9130017A15 gene (9130017A15Rik), mRNA [NM_177242]	NM_177242	1.27106
secretory carrier membrane protein 5	NM_020270	1.08816
Mus musculus mannoside acetylglucosaminyltransferase 5 (Mgat5), mRNA [NM_145128]	NM_145128	1.12352

achaete-scute complex homolog-like (Drosophila)	NM_008553	-1.05304
mutS homolog 5 (E. coli)	NM_013600	1.0098
Mus musculus KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retentior	NM_133950	-1.0783
hematopoietic cell transcript 1	NM_010416	1.0531
RIKEN cDNA 2010012O05 gene	NM_025563	-1.22224
Similar to double homeobox, 4; double homeobox protein 4	AK016643	-1.0194
phospholipase A2, group V	NM_011110	-1.00883
RIKEN cDNA 5730589K01 gene	NM_023434	-1.41517
acyl-Coenzyme A oxidase 3, pristanoyl	NM_030721	1.05942
Mucolipin 1	AK008732	-1.03011
RIKEN cDNA 1110056A04 gene	AK036458	1.1665
protein tyrosine phosphatase, receptor type, G	NM_008981	-1.07067
Mus musculus interleukin 28 receptor alpha (Il28ra), mRNA [NM_174851]	NM_174851	-1.22443
RIKEN cDNA 4930597O21 gene	AI842738	1.02579
Mus musculus RIKEN cDNA 4930509O20 gene (4930509O20Rik), mRNA [NM_	NM_029064	1.06307
Mus musculus RIKEN cDNA 2610511O17 gene (2610511O17Rik), mRNA [NM_	NM_152817	1
Unknown		1.01314
Unknown		-1.06296
RIKEN cDNA 4930469P12 gene	BC031623	-1.10296
Mus musculus RIKEN cDNA A930004D23 gene (A930004D23Rik), mRNA [NM_	NM_145493	1.04866
Unknown		1.06192
RIKEN cDNA 5730455P16 gene	AK078548	1.0464
Mus musculus thioredoxin domain containing 1 (Txndc1), mRNA [NM_028339]	NM_028339	-1.16897
Mus musculus cDNA sequence BC026374 (BC026374), mRNA [NM_146213]	NM_146213	1.10607
C1q and tumor necrosis factor related protein 2	BC030324	-1.15151
Mus musculus DNA segment, Human S2298E (D0H8S2298E), mRNA [NM_178	NM_178648	1.13006
RIKEN cDNA A630084N20 gene	AK015714	-1.09906
Unknown		1.01982
similar to hypothetical protein FLJ35728	AK077097	1.2206
Mus musculus DNA segment, Chr 1, ERATO Doi 251, expressed (D1Ertd251e),	NM_030245	-1.40543
Mus musculus v-abl Abelson murine leukemia oncogene 1 (Abl1), mRNA [NM_	(NM_009594	1.04857
Unknown		-1.18436
Unknown		1.2123
Unknown		1.00039
AAP70811.1 olfactory receptor GA_x6K02T2N0WB-1967-2905 [Mus musculus]	[NP818476]	-1.03089
Unknown		1.02441
Mus musculus RAB, member of RAS oncogene family-like 2A (Rab12a), mRNA	NM_026817	1.03733
Patched homolog 1	AK020715	1.00651
Mus musculus proline arginine-rich end leucine-rich repeat (Prelp), mRNA [NM_	NM_054077	1.0669
Mus musculus single stranded DNA binding protein 4 (Ssbp4), mRNA [NM_133	NM_133772	-1.19776
Mus musculus RIKEN cDNA 2810046L04 gene (2810046L04Rik), mRNA [NM_	NM_173382	1.38545
Mus musculus adult female vagina cDNA, RIKEN full-length enriched library, clc	AK036996	1.02069
RIKEN cDNA 2010110K16 gene	AK002667	-1.10114
Mus musculus serine (or cysteine) proteinase inhibitor, clade B, member 1b (Se	NM_173052	-1.37379
U1 small nuclear ribonucleoprotein 70 kDa polypeptide A	NM_009224	1.08337
selenoprotein K	NM_019979	-1.35727
RIKEN cDNA 1700001L19 gene	AK005609	-1.02614
DNA Segment, Chr 15 Massachusetts Institute of Technology 260	AK031386	1.08356
Mus musculus RIKEN cDNA 5730446D14 gene (5730446D14Rik), mRNA [NM_	NM_183260	1.06896
Mus musculus gastrin releasing peptide (Grp), mRNA [NM_175012]	NM_175012	-1.11679
homeo box C9	NM_008272	1.18637
Mus musculus elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3,	NM_148941	-1.10416

Mus musculus purinergic receptor P2Y, G-protein coupled, 14 (P2ry14), mRNA	NM_133200	1.14797
Mus musculus natriuretic peptide receptor 2 (Npr2), mRNA [NM_173788]	NM_173788	1.17194
Mus musculus arrestin domain containing 4 (Arrdc4), mRNA [NM_025549]	NM_025549	-1.1274
Mus musculus RIKEN cDNA 2810413N20 gene (2810413N20Rik), mRNA [NM_134141]	NM_134141	-1.03872
mutS homolog 4 (E. coli)	NM_031870	1.09934
RIKEN cDNA 2900045C01 gene	NM_023689	1.0854
frizzled homolog 6 (Drosophila)	NM_008056	1.06468
Mus musculus mannosidase, alpha, class 1C, member 1 (Man1c1), mRNA [NM_207237]	NM_207237	1.35897
glutathione S-transferase, mu 1	NM_010358	1.08976
Platelet-derived growth factor, D polypeptide	AK005882	1.10347
RIKEN cDNA 2610042L04 gene	AK017182	-1.02363
Unknown		-1.07585
Unknown		-1.00374
Mus musculus ATPase, H+/K+ transporting, nongastric, alpha polypeptide (Atp1a1)	NM_138652	1.09604
distal-less homeobox 1	NM_010053	-1.0624
Unknown		1.00516
Unknown		1.01539
melanoma antigen, family A, 7	NM_020281	1.10538
Unknown		-1.63385
methyl-CpG binding domain protein 2	NM_010773	-1.21054
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK017116	AK017116	-1.04043
Adaptor-related protein complex 3, beta 2 subunit	AY528675	1.12664
Mitochondrial ribosomal protein L52	CA494461	-1.02194
Mus musculus GTP binding protein 3 (Gtpbp3), mRNA [NM_032544]	NM_032544	-1.09433
Mus musculus RIKEN cDNA 1810008K03 gene (1810008K03Rik), mRNA [NM_026929]	NM_026929	1.01167
U2 small nuclear ribonucleoprotein auxiliary factor (U2AF), 35 kDa, related sequence	NM_009453	1.15147
Transmembrane protein 5	AK043098	-1.35309
Similar to putative protein kinase	AK015649	1.02669
Mus musculus RIKEN cDNA 2410012C07 gene (2410012C07Rik), mRNA [XM_133920]	XM_133920	-1.07139
Mus musculus UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase	NM_198611	-1.06928
programmed cell death 6 interacting protein	NM_011052	-1.16627
Ectonucleoside triphosphate diphosphohydrolase 8	BC031143	-1.05515
sperm adhesion molecule	NM_009241	1.07508
interleukin 3	NM_010556	1.03559
Mouse T-cell receptor delta-chain mRNA, D2J1-region.	M35436	1.00998
Est2 repressor factor	NM_010155	-1.12558
pancreatic polypeptide	NM_008918	-1.0191
RIKEN cDNA 1810044O22 gene	NM_025558	-1.22195
RIKEN cDNA 1700025D04 gene	NM_026412	-1.01849
Mus musculus high density lipoprotein (HDL) binding protein (Hdlbp), mRNA [NM_133808]	NM_133808	1.13449
Glycoprotein 38	NM_010329	1.33663
Mus musculus dehydrogenase/reductase (SDR family) member 8 (Dhrs8), mRNA [NM_053262]	NM_053262	-1.0887
U18939 orf2 {Batrachocottus baicalensis}, partial (5%) [TC951533]		1.03592
pleckstrin homology, Sec7 and coiled/coil domains 1	NM_011180	1.0719
Exosome component 7	AK011294	-1.15496
mitogen-activated protein kinase 12	NM_013871	1.09725
A disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motifs	BC058991	1.00953
Mus musculus DNA segment, Chr 11, ERATO Doi 497, expressed (D11Ert497)	NM_029976	-1.16991
Leucine rich repeat and fibronectin type III domain containing 5	AK083920	1.10462
603283548F1 NCI_CGAP_Mam4 Mus musculus cDNA clone IMAGE:5327866	BI656179	1.02108
superkiller viralicidic activity 2-like (S. cerevisiae)	NM_021337	1.03012
RIKEN cDNA 1700128E15 gene	NM_026107	-1.00019

RIKEN cDNA E130309B19 gene	AK053799	-1.0513
testis expressed gene 189	NM_024431	-1.22173
Component of oligomeric golgi complex 5	AK030656	-1.10468
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta	NM_018753	-1.12205
ISL1 transcription factor, LIM/homeodomain, (islet-1)	NM_021459	1.22351
myeloid/lymphoid or mixed lineage-leukemia translocation to 4 homolog (Drosophila)	NM_022328	1.13937
Unknown		1
plasmacytoma expressed transcript 2	NM_008821	1.03712
OLFACTORY RECEPTOR GA_X5J8B7W6RL5-13162713-13162216 (FRAGMENT). [Source:Seq		1.00397
Mus musculus cDNA sequence BC023105 (BC023105), mRNA [NM_145357]	NM_145357	-1.22656
Mus musculus kinesin family member 13B (Kif13b), mRNA [XM_283218]	XM_283218	1
Ubiquitin specific protease 24	BF714700	1
WD repeat and FYVE domain containing 3	D37791	-1.03573
RIKEN cDNA A630001G21 gene	AK041324	1.06241
RIKEN cDNA 4931400O07 gene	AK016421	1.27113
Mus musculus DNA segment, Chr 10, Wayne State University 102, expressed (IN	NM_026579	-1.00254
Unknown		-1.03182
Methionine aminopeptidase-like 1	AK037504	1.24715
Mus musculus forkhead box J1 (Foxj1), mRNA [NM_008240]	NM_008240	1.10424
Unknown		1.04496
Sphingosine-1-phosphate phosphatase 1	AF247177	-1.03448
Mus musculus expressed sequence AW539964 (AW539964), mRNA [NM_1734	NM_173432	1.01939
Oxysterol binding protein-like 8	AK050244	1.12094
Unknown		1.24872
Mus musculus cDNA sequence BC019776 (BC019776), mRNA [NM_144797]	NM_144797	1.07285
Unknown		-1.03251
Mus musculus similar to olfactory receptor GA_x6K02T2PBJ9-42486061-42486	XM_146136	-1.11045
aminomethyltransferase	BM936065	-1.03655
Unknown		1.00713
Mus musculus Fukuyama type congenital muscular dystrophy homolog (human)	NM_139309	1.01457
Mus musculus tensin like C1 domain-containing phosphatase (Tenc1), mRNA [N	NM_153533	-1.05912
RIKEN cDNA 9130214H05 gene	AK033669	-1.02564
ribosomal protein S8	NM_009098	-1.03181
Unknown		-1.01623
Mus musculus serpinb3d (LOC394252), mRNA [NM_201376]	NM_201376	-1.38197
RIKEN cDNA 4931417G12 gene	BC049660	-1.09857
RIKEN cDNA 1110029C13 gene	NM_026822	1.02858
phosphodiesterase 8A	NM_008803	-1.24848
RIKEN cDNA 2810405F17 gene	AK012993	1.04113
similar to hypothetical protein FLJ14721	BC027694	-1.08519
Unknown		-1.41832
Mus musculus KiSS-1 metastasis-suppressor (Kiss1), mRNA [NM_178260]	NM_178260	1.01832
Mus musculus mitochondrial ribosomal protein L22 (Mrpl22), mRNA [NM_17500	NM_175001	-1.10657
Mus musculus RIKEN cDNA A230072I16 gene (A230072I16Rik), mRNA [NM_1	NM_175004	-1.00607
Mus musculus, clone IMAGE:4511924, mRNA.	BC022742	1.14483
Unknown		1.21066
RIKEN cDNA C230071I02 gene	AK082631	-1.03234
Unknown		1.08221
Mus musculus ribosomal protein S25 (Rps25), mRNA [NM_024266]	NM_024266	-1.06173
Mus musculus RIKEN cDNA D930047P17 gene (D930047P17Rik), mRNA [NM_	NM_172925	1.0863
leukotriene B4 receptor 1	NM_008519	1.08259
Unknown		1.04127

sphingosine kinase 2	NM_020011	1.04494
Pellino 2	AK033118	1.00895
Mus musculus zinc finger, FYVE domain containing 1 (Zfyve1), mRNA [NM_183154]	NM_183154	1.04423
Mus musculus jumonji, AT rich interactive domain 1C (Rbp2 like) (Jarid1c), mRNA [NM_013668]	NM_013668	1.06577
F-box only protein 24	AI790255	1.04877
endothelial cell-specific molecule 1	NM_023612	-1.14599
Mus musculus cDNA clone IMAGE:3487047.	BC029302	1.01975
Mus musculus eukaryotic translation initiation factor 2C, 1 (Eif2c1), mRNA [NM_153403]	NM_153403	1.10166
RIKEN cDNA 9630025I21 gene	AK079330	-1.08267
CUB and Sushi multiple domains 3	AK078076	1.05807
Protein phosphatase 1 (formerly 2C)-like	BC060120	-1.01207
GA repeat binding protein, beta 1	NM_010249	-1.09298
Unknown		1.06153
AB065501 seven transmembrane helix receptor {Homo sapiens}, complete [TC1055198]		-1.0134
Solute carrier family 16 (monocarboxylic acid transporters), member 10	AK036743	-1.1242
Rho guanine nucleotide exchange factor (GEF) 16	BC044805	-1.1999
Mus musculus mRNA for Z30 small nucleolar RNA.	AJ007734	-1.00545
Protein kinase, AMP-activated, alpha 2 catalytic subunit	AK044030	-1.13105
paired box gene 9	NM_011041	-1.11054
Mus musculus COMM domain containing 3 (Commd3), mRNA [NM_147778]	NM_147778	-1.15886
Expressed sequence AI315068	AK029007	1.11796
Mus musculus EGF-like-domain, multiple 3 (Egfl3), mRNA [NM_172273]	NM_172273	1.06738
PHD finger protein 2	NM_011078	-1.00842
Mus musculus junction plakoglobin (Jup), mRNA [NM_010593]	NM_010593	1.08123
Basic helix-loop-helix domain containing, class B4	AF454760	1.06229
Unknown		-1.07951
Unknown		1.06289
Mus musculus RIKEN cDNA 1700003M02 gene (1700003M02Rik), mRNA [NM_027041]	NM_027041	1.03386
Mus musculus UFD2/D4COLE1E fusion protein mRNA, complete cds.	AF260924	1.06226
Unknown		-1.3289
transcription elongation factor B (SIII), polypeptide 3 (110kD)	NM_013736	-1.00967
Adhesion regulating molecule 1	AK010919	1.10838
ATP-binding cassette, sub-family C (CFTR/MRP), member 1	NM_008576	1.05771
neurturin	NM_008738	1.20865
RIKEN cDNA 4733401H18 gene	NM_023247	1.09543
RIKEN cDNA 5830404H04 gene	AK086520	1.01773
WD repeat domain 33	BC003939	-1.075
AGENCOURT_10296645 NIH_MGC_144 Mus musculus cDNA clone IMAGE:6:BU526046		1.11
Unknown		-1.0093
Mus musculus expressed sequence C78339 (C78339), mRNA [XM_127312]	XM_127312	-1.31423
RIKEN cDNA 4933400E14 gene	AK016590	1.08414
Mus musculus ATP-binding cassette, sub-family G (WHITE), member 4 (Abcg4)	NM_138955	1.01716
Mus musculus RIKEN cDNA 2310015N07 gene (2310015N07Rik), mRNA [NM_025515]	NM_025515	-1.51686
Minichromosome maintenance deficient domain containing 1	AK018494	-1.19192
Mus musculus expressed sequence AI467484 (AI467484), mRNA [NM_178883]	NM_178883	-1.06976
RIKEN cDNA 5730591C18 gene	NM_026572	-1.09071
procollagen, type X, alpha 1	NM_009925	1.03099
Mus musculus ectonucleotide pyrophosphatase/phosphodiesterase 4 (Enpp4), r	NM_199016	-1.23759
Mus musculus RIKEN cDNA 1810045K06 gene (1810045K06Rik), mRNA [XM_144142]	XM_144142	-1.13348
RIKEN cDNA 1700029F12 gene	NM_025585	1.27562
Mus musculus zinc finger protein 403 (Zfp403), mRNA [NM_153144]	NM_153144	-1.21357
Mus musculus cordon-bleu (Cobl), mRNA [NM_172496]	NM_172496	-1.07647

RIKEN cDNA 4632426K06 gene	NM_026147	1.11077
Mus musculus ATP-binding cassette, sub-family A (ABC1), member 8b (Abca8b)	NM_013851	-1.26617
Mus musculus tripartite motif protein 9 (Trim9), mRNA [NM_053167]	NM_053167	1.11133
Transformed mouse 3T3 cell double minute 4 testis expressed gene 11	AK046448	-1.04571
	NM_031384	-1.24708
Mus musculus solute carrier family 17 (anion/sugar transporter), member 5 (Slc17a5)	NM_172773	-1.0568
RIKEN cDNA 2810418I05 gene	NM_023191	-1.26548
Unknown		1.15117
circadian locomoter output cycles kaput	NM_007715	1.03541
noggin	NM_008711	1.10894
RIKEN cDNA 1190002C06 gene	AK004443	1
Adult male stomach cDNA, RIKEN full-length enriched library, clone:2210408OC	AK008862	1.02803
Dishevelled associated activator of morphogenesis 1	AK033683	-1.00457
RIKEN cDNA A630031M04 gene	AK035276	1
RIKEN cDNA 2310011F14 gene	NM_028238	-1.02032
RIKEN cDNA 2700038D15 gene	NM_025987	-1.22255
Mus musculus RIKEN cDNA 4933421E11 gene (4933421E11Rik), mRNA [NM_177309]	NM_177309	-1.04732
Unknown		1.16323
602886790F1 NCI_CGAP_Kid14 Mus musculus cDNA clone IMAGE:5041895 5'BI100634		1.17437
Mus musculus RIKEN cDNA 4930449E07 gene (4930449E07Rik), mRNA [NM_029044]	NM_029044	-1.40774
Nudix (nucleoside diphosphate linked moiety X)-type motif 17	AK031193	1
Mus musculus olfactory receptor 1198 (Olfr1198), mRNA [NM_207567]	NM_207567	1.00521
Unknown		-1.00291
kallikrein 8	NM_008457	1.064
adenylate cyclase activating polypeptide 1 receptor 1	NM_007407	-1.16183
Procollagen, type VI, alpha 3	AF034136	1.11962
ADP-ribosyltransferase 1	NM_009710	1.09609
Casein alpha	NM_007784	1.10569
Trans-acting transcription factor 1	AK003347	-1.08293
glutathione transferase zeta 1 (maleylacetoacetate isomerase)	NM_010363	1.24645
Zinc finger protein 26	U29504	-1.04962
Amiloride-sensitive cation channel 3	AY261387	1.1047
placental protein 6	NM_019704	1.21665
mast cell protease 5	NM_010780	1.06452
Mus musculus motile sperm domain containing 3 (Mospd3), mRNA [NM_030037]	NM_030037	1.1052
OLFACTORY RECEPTOR MOR257-1. [Source:RefSeq;Acc:NM_146987] [ENSMUST00000005]		1.31957
testis expressed gene 261	NM_009357	-1.19604
Midkine	NM_010784	1.07308
Mus musculus SRY-box containing gene 30 (Sox30), mRNA [NM_173384]	NM_173384	1.01975
Leucine rich repeat containing 16	AK043591	-1.0108
CCR4-NOT transcription complex, subunit 7	NM_011135	-1.02159
602907332F1 NCI_CGAP_Kid14 Mus musculus cDNA clone IMAGE:5064439 5'BI143685		-1.23857
601774565F1 NCI_CGAP_Lu29 Mus musculus cDNA clone IMAGE:3995033 5'BF168016		-1.00405
interleukin enhancer binding factor 3	NM_010561	-1.18028
Guanine nucleotide binding protein, alpha 15	M80632	1.03543
Amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 2 homolog	AK046790	1.05818
arginine vasopressin	NM_009732	1.14266
protamine 3	NM_013638	1.16168
Unknown		1.10737
purinergic receptor P2Y, G-protein coupled 1	NM_008772	-1.04534
poly(rC) binding protein 2	NM_011042	1.06799
Phospholipase C, beta 4	BC051068	-1.02304

Mus musculus olfactory receptor 763 (Olfr763), mRNA [NM_146862]	NM_146862	1.06748
Tetraspanin 9	BC038619	1.03724
Unknown		1.15201
high mobility group box 1	NM_010439	-1.27772
RIKEN cDNA 1700011F03 gene	BC049736	1.23707
M.musculus mRNA for TEL protein.	Y07915	1.04339
Mus musculus olfactory receptor 78 (Olfr78), mRNA [NM_130866]	NM_130866	1.00511
Mus musculus solute carrier family 1 (glutamate transporter), member 7 (Slc1a7)	NM_146255	1.06609
MAPA_RAT Microtubule-associated protein 1A (MAP 1A) [Contains: MAP1 light chain LC2]. [R		1.10169
Unknown		1.02111
Centrosomal protein 2	AK045557	-1.01923
RIKEN cDNA 4930503B20 gene	BC048658	1.04961
Zinc finger protein 148	NM_011749	-1.03135
Mus musculus RIKEN cDNA 5930406N14 gene (5930406N14Rik), mRNA [NM_	NM_175526	-1.30819
collagenase-like A	NM_032006	1.09117
FXYD domain-containing ion transport regulator 3	NM_008557	-1.08011
Mus musculus wntless-related MMTV integration site 16 (Wnt16), mRNA [NM_	NM_053116	1.08109
Mus musculus RIKEN cDNA 1700029H01 gene (1700029H01Rik), mRNA [NM_	NM_028647	1.09759
RIKEN cDNA 1500031H01 gene	BC056472	1.16008
GDP-mannose pyrophosphorylase B	BC057082	-1.07865
C85542 Mouse fertilized one-cell-embryo cDNA Mus musculus cDNA clone J02	C85542	1.01932
Mus musculus Tax1 (human T-cell leukemia virus type I) binding protein 3 (Tax1	NM_029564	1.01244
Unknown		-1.00263
MAP kinase-interacting serine/threonine kinase 1	NM_021461	1.39423
Echinoderm microtubule associated protein like 5	AK050226	-1.58971
Mus musculus expressed sequence AI429152 (AI429152), mRNA [NM_153126]	NM_153126	-1.00995
Mus musculus BTB (POZ) domain containing 5 (Btbd5), mRNA [NM_025707]	NM_025707	-1.15949
Unknown		-1.08852
Mus musculus olfactory receptor 796 (Olfr796), mRNA [NM_146931]	NM_146931	1.11094
Mus musculus ribonucleotide reductase M2 B (TP53 inducible) (Rrm2b), mRNA	NM_199476	-1.01665
RIKEN cDNA 2900060P06 gene	AK013739	1.04016
Mus musculus tripartite motif protein 11 (Trim11), mRNA [NM_053168]	NM_053168	-1.05296
Helicase with zinc finger domain	AK033094	1.15756
Mus musculus vomeronasal 1 receptor, I9 (V1ri9), mRNA [NM_134225]	NM_134225	-1.02114
Mus musculus cDNA sequence BC018601 (BC018601), mRNA [NM_134033]	NM_134033	-1.43913
Mus musculus aarF domain containing kinase 1 (Adck1), mRNA [NM_028105]	NM_028105	-1.08134
Msx2 interacting nuclear target protein	NM_019763	1.18228
Hepatitis B virus x interacting protein	BC028547	-1.30254
Mus musculus THO complex 3 (Thoc3), mRNA [NM_028597]	NM_028597	1.01511
Hypothetical gene supported by AK032594	X00172	1.3193
small nuclear ribonucleoprotein N	NM_013670	-1.1102
Mus musculus ariadne ubiquitin-conjugating enzyme E2 binding protein homolog	NM_019927	1.02979
RIKEN cDNA 2410080H04 gene	AK122555	1.14994
WD repeat domain 53	AK005105	-1.0952
Mus musculus proline-rich nuclear receptor coactivator 1 (Pnrc1), mRNA [XM_1	XM_131355	-1.26038
Unknown		-1.01385
sema domain, immunoglobulin domain (Ig), TM domain, and short cytoplasmic c	NM_011350	1.00465
procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha	NM_011031	1.05152
Mus musculus RIKEN cDNA 1110061L23 gene (1110061L23Rik), mRNA [NM_	(NM_029406	1.07879
Mus musculus procollagen, type IV, alpha 6 (Col4a6), mRNA [NM_053185]	NM_053185	1.00065
HESB like domain containing 1	AK002936	-1.01197
hypothetical protein, MGC:7041	NM_030257	-1.58525

Unknown		1.03873
serine racemase	NM_013761	-1.03684
proline rich protein 2	NM_031499	1.29941
testis expressed gene 18	NM_031385	1.03804
NY-REN-18 antigen	NM_016736	1.12365
Unknown		1.01572
gamma-aminobutyric acid (GABA-A) receptor, subunit alpha 6	NM_008068	-1.02283
Mus musculus NADH dehydrogenase (ubiquinone) Fe-S protein 8 (Ndufs8), mRNA [NM_144870]		-1.09733
Mus musculus RIKEN cDNA 2010005O13 gene (2010005O13Rik), mRNA [NM_145512]		-1.07373
Mus musculus ARP5 actin-related protein 5 homolog (yeast) (Actr5), mRNA [NM_175419]		1.13907
Mus musculus zinc finger CCCH type domain containing 5 (Zc3hdc5), mRNA [NM_172569]		1.07672
Mus musculus 0 day neonate skin cDNA, RIKEN full-length enriched library, clone AK028520		-1.59593
Serum amyloid A 1	NM_009117	1.03058
Mus musculus MAS-related GPR, member G (Mrgprg), mRNA [NM_203492]	NM_203492	1.07495
Unknown		1.03472
RIKEN cDNA 6430704M03 gene	AK078331	-1.02387
CDC14 cell division cycle 14 homolog A (<i>S. cerevisiae</i>)	AK036556	-1.14074
Olfactory receptor 20	X89679	1.01081
Unknown		1.07537
RIKEN cDNA 2310016E02 gene	AK009384	-1.74511
RIKEN cDNA 2900019G14 gene	BC060256	1.04551
Mus musculus methionine adenosyltransferase II, beta (Mat2b), mRNA [NM_131340]		-1.17102
Mus musculus RIKEN cDNA 9430016A21 gene (9430016A21Rik), mRNA [NM_178720]		-1.07575
transgelin 3	NM_019754	1.07019
RIKEN cDNA 5830403E09 gene	AI552518	-1.05635
RIKEN cDNA A430106J12 gene	AK041728	1.02485
Mus musculus Atpase, class VI, type 11C (Atp11c), mRNA [NM_001001798]	NM_001001798	-1.07984
Unknown		1.1983
Mus musculus serine threonine kinase 31 (Stk31), mRNA [NM_029916]	NM_029916	1.07508
CDNA sequence BC021785	BC021785	-1.00398
Mus musculus selenophosphate synthetase 1 (Seps1), mRNA [NM_175400]	NM_175400	-1.41643
Unknown		1.08115
Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (sem. domain)	NM_011349	1.16612
Armadillo repeat containing 8	AK083094	-1.02828
Mus musculus kinesin family member 24 (Kif24), mRNA [NM_145101]	NM_145101	1.01943
Mus musculus golgi reassembly stacking protein 1 (Gorasp1), mRNA [NM_028976]	NM_028976	-1.05659
receptor-associated protein of the synapse, 43 kDa	NM_009023	1.04245
integrin alpha 6	NM_008397	-1.25166
Mus musculus RIKEN cDNA 2900024P18 gene (2900024P18Rik), mRNA [NM_028376]	NM_028376	-1.06231
RIKEN cDNA 2810450G17 gene	BM238603	-1.17755
Unknown		1.01614
ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit g	NM_013795	-1.18616
RIKEN cDNA 2810012H18 gene	AK012728	-1.16508
Ring finger protein 144	AF360998	1.31103
RIKEN cDNA 4930456L15 gene	AK015480	1.0688
tachykinin receptor 1	NM_009313	1.00636
Cysteine-rich hydrophobic domain 1	Y11896	1.12833
RIKEN cDNA 4930541M15 gene	AK028542	1.08909
Unknown		1.31936
RIKEN cDNA 2610019I03 gene	NM_025639	1.02469
RIKEN cDNA 4930592C13 gene	AF133818	-1.0357
Mus musculus Hspb associated protein 1 (Hspbap1), mRNA [NM_175111]	NM_175111	-1.01357

EGF-like-domain, multiple 6	NM_019397	-1.62992
Unknown		1.1168
Expressed sequence AI840980	NM_153119	-1.075
RIKEN cDNA A930024F17 gene	NM_033478	1.00415
Asparagine-linked glycosylation 2 homolog (yeast, alpha-1,3-mannosyltransferase)	AB041604	1.04913
Pleckstrin homology domain containing, family K member 1	AY036116	-1.01114
Calcium activated nucleotidase 1	BI156837	-1.07411
Expressed sequence AW050020	BF531488	-1.04201
CDNA sequence U90926	U90926	1.00704
Mus musculus similar to biliary glycoprotein (LOC210156), mRNA [XM_145452]	XM_145452	1.15425
Ubiquitin specific protease 7	BC046963	-1.08607
Unknown		-1.07464
Unknown		1.07727
Unknown		-1.0814
Mus musculus RIKEN cDNA 4930511O11 gene (4930511O11Rik), mRNA [NM_029163]	NM_029163	1.04226
Mus musculus scribbled homolog (Drosophila) (Scrib), mRNA [NM_134089]	NM_134089	1.13802
FBJ osteosarcoma related oncogene	K02785	1.14492
Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched library clone	AK012762	-1.31228
Zinc finger, MYND domain containing 11	AK077732	-1.51056
Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 48 (Ddx48), mRNA [NM_138669]	NM_138669	-1.01086
Mouse mRNA for Bach protein 2, complete cds.	D86604	1.05849
RIKEN cDNA 1110049G11 gene	NM_025410	-1.19883
RIKEN cDNA 6530401C20 gene	BU509986	1.11114
RIKEN cDNA 6430511E19 gene	BC048838	-1.00202
Mus musculus SEC14-like 2 (S. cerevisiae) (Sec14I2), mRNA [NM_144520]	NM_144520	-1.17778
hypothetical protein 425O18-1	NM_019421	-1.10629
ARP1 actin-related protein 1 homolog B (yeast)	AK078508	-1.03183
RIKEN cDNA 5133400D11 gene	AK031980	-1.07479
Mus musculus RIKEN cDNA 3830422K02 gene (3830422K02Rik), mRNA [NM_173767]	NM_173767	-1.01122
gamma-aminobutyric acid (GABA-A) receptor, subunit beta 3	NM_008071	1.10345
Catechol-O-methyltransferase domain containing 1	NM_026965	-1.0576
Fer-1-like 3, myoferlin (C. elegans)	AK075903	1.13227
Mus musculus vomeronasal 1 receptor, H16 (V1rh16), mRNA [NM_134240]	NM_134240	1.07435
trophoblast glycoprotein	NM_011627	1.08993
nebulin-related anchoring protein	NM_008733	1.02725
Mus musculus SERTA domain containing 4 (Sertad4), mRNA [NM_198247]	NM_198247	-1.23606
Mus musculus polymerase (RNA) mitochondrial (DNA directed) (Polrmt), mRNA [NM_172551]	NM_172551	-1.19317
PRP4 pre-mRNA processing factor 4 homolog (yeast)	AK089838	1.10481
RAD1 homolog (S. pombe)	NM_011232	-1.03181
avian reticuloendotheliosis viral (v-rel) oncogene homolog A	NM_009045	1.10992
Mus musculus camello-like 5 (Cml5), mRNA [NM_023493]	NM_023493	-1.03302
Unknown		-1.32951
myeloperoxidase	NM_010824	1.11519
adenosine deaminase 3, RNA dependent	NM_052977	1.02475
Mus musculus immunoglobulin superfamily, member 8 (Igsf8), mRNA [NM_080419]	NM_080419	1.04471
CDNA sequence AB114826	AK082874	1.1311
Transcribed locus	AA638658	1
glioma-amplified sequence-41	NM_026570	-1.44096
EHOX-like	NM_201236	1.05973
RIKEN cDNA 1110007A06 gene	BC034085	-1.17655
Mus musculus RIKEN cDNA 2900041A09 gene (2900041A09Rik), mRNA [NM_182839]	NM_182839	-1.15808
proteoglycan 3	NM_016914	1.06023

Mus musculus RIKEN cDNA 1300017K07 gene (1300017K07Rik), mRNA [NM_	NM_027919	-1.19668
Mus musculus RIKEN cDNA 2610022K04 gene (2610022K04Rik), mRNA [NM_	NM_028134	1.06993
Mus musculus RIKEN cDNA 4930590J08 gene (4930590J08Rik), mRNA [NM_1	NM_198668	1.00481
Mus musculus mitogen activated protein kinase kinase kinase 1 (Map4k1	NM_008279	1.09711
Mus musculus olfactory receptor 724 (Olfr724), mRNA [NM_146492]	NM_146492	1.03073
602095907F1 NCI_CGAP_Co24 Mus musculus cDNA clone IMAGE:4216105 5	BF579932	-1.13929
Mus musculus vitamin K epoxide reductase complex, subunit 1-like 1 (Vkorc1	NM_027121	-1.30359
thymosin, beta 10	NM_025284	-1.09944
RIKEN cDNA 9330209D03 gene	NM_029926	1.2765
Unknown		-1.06154
minichromosome maintenance deficient (S. cerevisiae) 3-associated protein	NM_019434	-1.22913
glycoprotein 9 (platelet)	NM_018762	1.04541
Mus musculus similar to H2-Q10 protein (LOC381094), mRNA [XM_355010]	XM_355010	1.2742
DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11 (CHL1-like helicase homolog	AK076357	1.06326
Inhibitor of kappaB kinase gamma	BG518744	1.17005
cortistatin	NM_007745	1.17782
Mus musculus olfactory receptor 488 (Olfr488), mRNA [NM_146732]	NM_146732	1.01103
LEM domain containing 2	AK082131	1.05835
traube	NM_019816	-1.1024
Carboxypeptidase D	BC051637	-1.17903
Tcfcp2-related transcriptional repressor 1	NM_023755	1.04303
Mus musculus tripartite motif protein 23 (Trim23), mRNA [NM_030731]	NM_030731	1.04357
RIKEN cDNA 1110023P21 gene	NM_025390	-1.34461
Unc-51-like kinase 4 (C. elegans)	AK016524	1.03954
Leucine rich repeat (in FLII) interacting protein 2	BC014761	1.01273
Erythrocyte protein band 4.9	AF155547	1.14299
pre-B lymphocyte gene 1	NM_016982	-1.0531
lymphocyte antigen 78	NM_008533	-1.04544
Mus musculus RIKEN cDNA 4930507C10 gene (4930507C10Rik), mRNA [NM_	NM_030175	1.00143
Guanine nucleotide binding protein (G protein), gamma 3 subunit	AK004459	1.1163
RIKEN cDNA 2610002H19 gene	NM_025567	-1.0047
Mus musculus RIKEN cDNA 0610037P05 gene (0610037P05Rik), mRNA [NM_	NM_025345	-1.35488
Unknown		-1.05568
neural retina leucine zipper gene	NM_008736	1.00554
Neuronal pentraxin 2	AF049124	1.07844
Mus musculus RIKEN cDNA 4921537P18 gene (4921537P18Rik), mRNA [NM_	NM_026256	1.47133
Mus musculus single-stranded DNA binding protein 3 (Ssbp3), transcript variant	NM_023672	-1.26025
Mus musculus HESB like domain containing 2 (Hbld2), mRNA [NM_026921]	NM_026921	1.00377
Mus musculus RIKEN cDNA 4930542G03 gene (4930542G03Rik), mRNA [NM_	NM_146116	1.1623
OLFACTORY RECEPTOR MOR170-7. [Source:RefSeq;Acc:NM_146480] [ENSMUST00000005		-1.01559
Mus musculus cDNA sequence BC034099 (BC034099), mRNA [NM_146256]	NM_146256	-1.02391
Microtubule-associated protein, RP/EB family, member 1	AK087318	1.06714
RIKEN cDNA 1700030J22 gene	AK030075	1.03794
Mus musculus, clone IMAGE:1247105, mRNA	BC028658	1.02136
Unknown		1.01199
dihydropyrimidinase-like 4	NM_011993	1.04559
AF057167 cysteine string protein 1 {Drosophila melanogaster}, partial (5%) [TC995653]		1.11575
Mus musculus serine protease inhibitor, Kazal type 4 (Spink4), mRNA [NM_011	NM_011463	-1.03908
RIKEN cDNA 5730507A11 gene	U80892	1.04623
Mus musculus RIKEN cDNA 8430426H19 gene (8430426H19Rik), mRNA [NM_	NM_178875	-1.22925
Mus musculus 5-oxoprolinase (ATP-hydrolysing) (Oplah), mRNA [NM_153122]	NM_153122	1.05572
RIKEN cDNA 1810055P16 gene	NM_018860	-1.26655

chondroitin sulfate proteoglycan 5	NM_013884	1.0356
RIKEN cDNA 4930452B06 gene	AK016701	-1.01945
CDNA, clone:Y0G0116G09, strand:unspecified	AI391295	-1.1048
Unknown		1.028
CDNA sequence BC056474	NM_00100149	-1.01208
Mus musculus olfactory receptor 46 (Olfr46), mRNA [NM_146934]	NM_146934	-1.53726
RIKEN cDNA 2610202L11 gene	NM_026000	-1.04411
NK2 transcription factor related, locus 5 (Drosophila)	NM_008700	-1.07138
Unknown		-1.06567
Mus musculus early B-cell factor 4 (Ebf4), mRNA [NM_152993]	NM_152993	1.05159
RIKEN cDNA 4930405H06 gene	AK015098	1.07621
Mus musculus RIKEN cDNA 5730461K03 gene (5730461K03Rik), mRNA [NM_027475]		1.0378
Unknown		-1.00194
Protein kinase, AMP-activated, gamma 3 non-catalytic subunit	AK036585	1.13107
USP6 N-terminal like	AK005972	1.34994
Mus musculus SLIT and NTRK-like family, member 5 (Slitrk5), mRNA [NM_029273]	NM_029273	1.08323
Mus musculus DNA segment, Chr 1, Brigham & Women's Genetics 1363 expressed	NM_00100156	1.23505
mitochondrial capsule selenoprotein	NM_008574	-1.00729
forkhead homolog 10 (Drosophila)	NM_023907	-1.01508
RIKEN cDNA 1700016H13 gene	AK006033	1.12031
Polymerase (DNA directed), epsilon 3 (p17 subunit)	AF230806	-1.2444
Mus musculus nuclear receptor subfamily 3, group C, member 2 (Nr3c2), mRNA [XM_356093]	XM_356093	1.11801
Carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotate	BC060717	-1.03656
Ring finger protein 168	NM_027355	-1.041
hypothetical protein A630053O10	AK042038	1.05346
RIKEN cDNA E430016F16 gene	AF035399	1.07921
Mus musculus RIKEN cDNA 2610019F03 gene (2610019F03Rik), mRNA [NM_173744]	NM_173744	1.01683
Mus musculus carboxypeptidase A5 (Cpa5), mRNA [NM_144537]	NM_144537	1.20051
Mus musculus transient receptor potential cation channel, subfamily M, member 1	NM_175130	-1.19532
RIKEN cDNA 1500031N24 gene	AK076900	1.0702
Mus musculus RIKEN cDNA 4833415F11 gene (4833415F11Rik), mRNA [NM_029013]	NM_029013	1.0173
Mus musculus olfactory receptor 1019 (Olfr1019), mRNA [NM_147015]	NM_147015	1.06279
RIKEN cDNA 4931406O17 gene	AK019849	1.13347
RIKEN cDNA 5430439G14 gene	BC049798	1.02952
Mus musculus ribosomal protein L32 (Rpl32), mRNA [NM_172086]	NM_172086	-1.18767
Unknown		-1.01931
Mus musculus RIKEN cDNA 2310061G07 gene (2310061G07Rik), mRNA [NM_133743]	NM_133743	1.00266
Transcribed locus, moderately similar to NP_665725.1 cytochrome P450, 3a18	BB019786	1.13403
Polymerase (RNA) II (DNA directed) polypeptide K	AK008287	-1.29733
Mus musculus RIKEN cDNA A930017M01 gene (A930017M01Rik), mRNA [NM_183176]	NM_183176	1.03259
RIKEN cDNA 0610010D24 gene	AK002458	1.01441
RAB11 family interacting protein 1 (class I)	AK030769	-1.05757
RIKEN cDNA 1190006C12 gene	NM_024171	-1.16839
NP_666792.1 olfactory receptor MOR201-1 [Mus musculus] [NP646905]		1.07256
Unknown		1.06595
Histone H1-like protein in spermatids 1	NM_018792	1.06583
Mus musculus RIKEN cDNA 2310042M24 gene (2310042M24Rik), mRNA [NM_025868]	NM_025868	-1.08753
RIKEN cDNA 1600013P15 gene	NM_025907	1.02044
Mus musculus RIKEN cDNA 4930401F20 gene (4930401F20Rik), mRNA [NM_172895]	NM_172895	1.30138
RIKEN cDNA 6330408P19 gene	AK018149	1.15479
Mus musculus RIKEN cDNA 8430408H12 gene (8430408H12Rik), mRNA [NM_026236]	NM_026236	-1.26202
RIKEN cDNA D230004J03 gene	NM_183138	1.10409

Mus musculus putative sperm protein sp18 mRNA, partial cds.	AF129872	1.03435
RIKEN cDNA A230055J12 gene	AK039475	1.22725
Mus musculus mitochondrial ribosomal protein S2 (Mrps2), mRNA [NM_080452	NM_080452	1.07424
Unknown		-1.14531
glycerol phosphate dehydrogenase 1, cytoplasmic adult	NM_010271	1.06252
Unknown		1.02794
RIKEN cDNA 1700062C23 gene	NM_026470	-1.15546
Unknown		-1.16165
pro-opiomelanocortin-alpha	NM_008895	1.03414
Mus musculus expressed sequence AW049604 (AW049604), mRNA [NM_1340	NM_134096	1.01743
Mus musculus keratin associated protein 16-9 (Krtap16-9), mRNA [NM_130876	NM_130876	1.01268
Pappalysin 2	AK084006	1.11793
Mus musculus Bcl2 modifying factor (Bmf), mRNA [NM_138313]	NM_138313	-1.11815
matrix metalloproteinase 2	NM_008610	1.02914
Tropomyosin 3, gamma	AF317223	1.00697
RIKEN cDNA C030027H14 gene	AY057898	-1.01291
Mus musculus mesoderm posterior 1 (Mesp1), mRNA [NM_008588]	NM_008588	1.06902
Mus musculus RIKEN cDNA E130120L08 gene (E130120L08Rik), mRNA [NM_	NM_177373	1.11425
SUMO1/sentrin specific protease 1	NM_144851	-1.04721
defensin beta 4	NM_019728	-1.06495
Serine/threonine kinase 32B	AJ250840	1.13295
arachidonate 12-lipoxygenase	NM_007440	-1.0002
solute carrier family 5, member 1	NM_019810	1.02676
Mus musculus RIKEN cDNA 1110061N23 gene (1110061N23Rik), mRNA [NM_	NM_176834	1.07909
Mus musculus RIKEN cDNA 4930578I06 gene (4930578I06Rik), mRNA [NM_0:	NM_026359	1.08465
OLFACTORY RECEPTOR GA_X6K02T2Q125-47560740-47559775. [Source:SP	TREMBL;Acc	1.13588
Mus musculus TGFB-induced factor 2 (Tgif2), mRNA [NM_173396]	NM_173396	-1.26523
T-cell, immune regulator 1	NM_016921	-1.05041
RIKEN cDNA 4930425N13 gene	AK015202	-1.19158
Potassium voltage-gated channel, shaker-related subfamily, beta member 3	U65593	1.02182
killer cell lectin-like receptor, subfamily A, member 2	NM_008462	-1.10371
Unknown		-1.53433
T-box 3	U57328	-1.2398
Unknown		1.11042
RIKEN cDNA 1810043G02 gene	AK075794	-1.06383
Unknown		-1.09339
Mus musculus RIKEN cDNA E330040A16 gene (E330040A16Rik), mRNA [NM_	NM_183314	1.07572
Mus musculus similar to olfactory receptor MOR283-3 (LOC233659), mRNA [X	XM_145969	-1.02678
acetyl-Coenzyme A dehydrogenase, short chain	NM_007383	1.16802
Thyroid hormone receptor associated protein 4	NM_011869	1.05228
Mus musculus similar to pregnancy-specific glycoprotein (LOC232917), mRNA [	XM_145400	1.11285
RIKEN cDNA 4930430J20 gene	AK019589	-1.16994
MiRNA containing gene	AK081334	1.12936
Unknown		1.13385
Butyrylcholinesterase	BG080438	1.05867
Mus musculus zinc finger protein 84 (Zfp84), mRNA [NM_023750]	NM_023750	1.02289
melatonin receptor 1A	NM_008639	1.04424
Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 33 (Dhx33), mRNA [N	NM_178367	1.08166
RIKEN cDNA 1110004P21 gene	NM_023603	-1.25618
RIKEN cDNA B930008K04 gene	NM_175446	1.08007
Neoplastic progression 3	NM_029688	-1.1524
Mus musculus CDK2 (cyclin-dependent kinase 2)-associated protein 1 (Cdk2ap	NM_013812	-1.28008

CDNA clone MGC:12025 IMAGE:3603243, complete cds	BC005782	-1.0198
RIKEN cDNA 4933417A18 gene	NM_025750	1.14061
RIKEN cDNA 4930572J05 gene	NM_198607	1.03464
RIKEN cDNA 9330186A19 gene	AK086572	-1.07621
Mus musculus thioredoxin domain containing 4 (endoplasmic reticulum) (Txndc4)	NM_029572	-1.28121
Mus musculus bone morphogenetic protein 3 (Bmp3), mRNA [NM_173404]	NM_173404	-1.25639
Mus musculus RIKEN cDNA C030011J08 gene (C030011J08Rik), mRNA [NM_029898]	NM_029898	1.06541
Unknown		1.12739
Ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, C. elegans)	BC065083	-1.19646
Mus musculus torsin family 1, member B (Tor1b), mRNA [NM_133673]	NM_133673	1.55561
RIKEN cDNA 2810047C21 gene	AK045648	-1.03911
Mus musculus mitogen activated protein kinase kinase 3 (Map2k3), mRNA [NM_008928]	NM_008928	1.06505
interleukin 2 receptor, alpha chain	NM_008367	-1.27127
Three prime repair exonuclease 1	NM_011637	1.00153
RIKEN cDNA 2700022G20 gene	NM_028279	-1.01137
Mus musculus RIKEN cDNA 9130023H24 gene (9130023H24Rik), mRNA [NM_177001]	NM_177001	1.00802
Unknown		1.00947
Mus musculus similar to mPLZF(B)=promyelocytic leukemia zinc finger protein {myeloid differentiation primary response gene 88	XM_134826 NM_010851	-1.10448 1.06153
A kinase (PRKA) anchor protein 13	AY033771	1.61657
Mus musculus regulator of G-protein signaling 13 (Rgs13), mRNA [NM_153171]	NM_153171	1.39075
Zinc finger protein 653	NM_177318	1.21311
Dynein, axonemal, heavy chain 10	Z83812	-1.00126
Mus musculus small fragment nuclease (Smfn), mRNA [NM_024233]	NM_024233	-1.19291
RIKEN cDNA 0710005A05 gene	NM_023456	1.08418
Mus musculus 5',3'-nucleotidase, mitochondrial (Nt5m), mRNA [NM_134029]	NM_134029	-1.03453
transformed mouse 3T3 cell double minute 4	NM_008575	-1.34573
Mus musculus pancreasin (Mpn), mRNA [NM_175440]	NM_175440	1.08521
C85922 Mouse fertilized one-cell-embryo cDNA Mus musculus cDNA clone J02 C85922		1.07544
Mus musculus expressed sequence AW549877, mRNA (cDNA clone IMAGE:37 BC016503)		-1.05156
Unknown		-1.2983
RIKEN cDNA 5730406M06 gene	AK039347	1
RIKEN cDNA 1700022P22 gene	AK006255	1.03995
erythrocyte protein band 4.1-like 4b	NM_019427	1.09074
Mus musculus RIKEN cDNA 5230400G24 gene (5230400G24Rik), mRNA [NM_029409]	NM_029409	-1.34954
Mus musculus EPS8-like 2 (Eps8l2), mRNA [NM_133191]	NM_133191	-1.01548
Mus musculus RIKEN cDNA 9330182L06 gene (9330182L06Rik), mRNA [NM_172706]	NM_172706	-1.07505
TXK tyrosine kinase	NM_013698	1.01032
Unknown		1.15376
Mus musculus RIKEN cDNA 4931433A13 gene (4931433A13Rik), mRNA [NM_172864]	NM_172864	1.04634
Mus musculus KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retentior	NM_134090	-1.13275
RIKEN cDNA 5330401P04 gene	AK030361	-1.0836
Mus musculus paraneoplastic antigen MA2 (Pnma2), mRNA [NM_175498]	NM_175498	1.08236
Mus musculus olfactory receptor 1282 (Olfr1282), mRNA [NM_146907]	NM_146907	-1.0088
small proline-rich protein 2E	NM_011471	1.10916
Jumonji domain containing 1C	AK082106	-1.04172
Mus musculus cDNA sequence BC056929 (BC056929), mRNA [NM_172928]	NM_172928	1.04582
Mus musculus RIKEN cDNA 0610010F05 gene (0610010F05Rik), mRNA [NM_027860]	NM_027860	-1.01313
RIKEN cDNA 4831443O22 gene	NM_026559	-1.14671
16 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:96:AK036039		1.06728
Mus musculus RIKEN cDNA A930041I02 gene (A930041I02Rik), mRNA [NM_178778]	NM_178778	1.01849
Mus musculus RIKEN cDNA 9030420J04 gene (9030420J04Rik), mRNA [XM_146632]	XM_146632	1.2102

Mus musculus RIKEN cDNA C330008I15 gene (C330008I15Rik), mRNA [NM_1	NM_144917	-1.10158
proviral integration site 1	NM_008842	1.03162
Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone: AK007235		-1.02086
hypothetical LOC494468	BC027106	-1.19327
Mus musculus killer cell lectin-like receptor subfamily B member 1D (Klrb1d), mRNA [NM_030599]		1.05521
Unknown		-1.09395
UI-M-AJ1-ahf-d-12-0-UI.s1 NIH_BMAP_MOB_N Mus musculus cDNA clone UI-	AI848734	1.03665
Golgi autoantigen, golgin subfamily b, macrogolgin 1	AK020091	-1.10453
Mus musculus mRNA for TCF-4 protein.	AJ223070	1.51907
M-Sema F=a factor in neural network development [mice, neonatal brain, mRNA]	S79463	-1.0089
RIKEN cDNA 5430426F23 gene	NM_023792	-1.20867
RIKEN cDNA C920025E04 gene	BC005648	1.11532
RAD50 homolog (S. cerevisiae)	NM_009012	-1.01258
Unknown		1.03868
Integrin-linked kinase-associated serine/threonine phosphatase 2C	AK003007	1.03517
Unknown		1.20554
Mus musculus RIKEN cDNA 9330196J05 gene (9330196J05Rik), mRNA [NM_1	NM_173451	1.00489
Mus musculus zinc finger, DHC domain containing 3 (Zdhhc3), mRNA [NM_02	NM_026917	-1.00632
Mus musculus crystallin, gamma N (Crygn), mRNA [NM_153076]	NM_153076	-1.02895
mast cell protease 6	NM_010781	1.08955
cytochrome P450, 24	NM_009996	1.05798
Mus musculus neuronal pentraxin receptor (Nptxr), mRNA [NM_028763]	NM_028763	1.20327
leucine-rich, glioma inactivated 1	NM_020278	1.1355
Unknown		1.06673
recombination activating gene 2	NM_009020	1.07695
Immunoglobulin heavy chain variable region	X59174	1.00646
RIKEN cDNA E130308A19 gene	AK087509	1.09579
DnaJ (Hsp40) homolog, subfamily C, member 8	AK008163	-1.12341
RIKEN cDNA 9830132G07 gene	AK086518	-1.25847
ankyrin repeat domain 3	NM_023663	-1.04647
Mus musculus BRF2, subunit of RNA polymerase III transcription initiation facto	NM_025686	1.32728
RIKEN cDNA 1110030J09 gene	NM_025397	-1.11987
Mus musculus expressed sequence C85658 (C85658), mRNA [NM_133798]	NM_133798	-1.62789
Expressed sequence AI481105	BC025488	1.09441
Cadherin 10	U69137	1.22972
Unknown		1.02571
Unknown		-1.15999
AGENCOURT_6425645 NCI_CGAP_Ov44 Mus musculus cDNA clone IMAGE::	BM461241	1.17871
Mus musculus RIKEN cDNA 2810426N06 gene (2810426N06Rik), mRNA [NM_	NM_023363	-1.45657
Mus musculus RUN and TBC1 domain containing 3 (Rutbc3), mRNA [NM_1340	NM_134091	1.16887
Unknown		-1.19944
regenerating islet-derived 3 alpha	NM_011259	-1.00225
Mus musculus RIKEN cDNA 1700054C12 gene (1700054C12Rik), mRNA [NM_	NM_183262	1.0006
Pyruvate dehydrogenase kinase, isoenzyme 3	AK088478	-1.03175
Unknown		1
Transcription factor AP-2 beta	AK053444	-1.00026
RIKEN cDNA 1700011E04 gene	AK005860	1.03287
Olfactory receptor 29, pseudogene 1	X89690	1.02196
Unknown		1.02692
RIKEN cDNA 5730470L24 gene	NM_025679	-1.01882
Mus musculus olfactory receptor 1365 (Olfr1365), mRNA [NM_207572]	NM_207572	1.04147
Mus musculus DNA segment, Chr 4, Wayne State University 114, expressed (D	NM_133873	1.05127

phospholipid scramblase 3	NM_023564	1.13623
Mus musculus lipoma HMGIC fusion partner-like 2 (Lhfp12), mRNA [NM_172589]	NM_172589	-1.12947
potassium voltage gated channel, shaker related subfamily, member 4	NM_021275	1.04271
RIKEN cDNA 2810037C14 gene	NM_026034	-1.25764
Mus musculus NADH dehydrogenase (ubiquinone) Fe-S protein 2 (Ndufs2), mRNA [NM_153064]	NM_153064	-1.21504
AGENCOURT_10255299 NIH_MGC_143 Mus musculus cDNA clone IMAGE:6148808	BU554808	-1.23022
SKI-like	NM_011386	-1.06339
Mus musculus olfactomedin-like 3 (Olfml3), mRNA [NM_133859]	NM_133859	-1.23483
hypothetical protein A930006D11	NM_177790	1.11957
RIKEN cDNA A730024A03 gene	AK122574	-1.2217
RIKEN cDNA 1700028J19 gene	AK006462	1.07445
chloride channel 4-2	NM_011334	1.06247
Mus musculus DNA segment, Chr 11, Wayne State University 47, expressed (D)	NM_177777	-1.11603
Mus musculus ankyrin 2, brain (Ank2), mRNA [NM_178655]	NM_178655	1.11897
Mus musculus adult male spinal cord cDNA, RIKEN full-length enriched library, 1	AK039580	1.02497
Cat eye syndrome chromosome region, candidate 2 homolog (human)	AK037032	-1.0033
Mus musculus acyl-Coenzyme A binding domain containing 3 (Acbd3), mRNA [NM_133225]	NM_133225	-1.01707
Cytochrome c oxidase subunit VIII	BU962389	-1.16416
601668857F1 NCI_CGAP_Mam1 Mus musculus cDNA clone IMAGE:3968559	BE914468	1.22785
Unknown		1.2357
RIKEN cDNA 2410008B13 gene	AK034740	-1.20682
Keratin complex 2, basic, gene 10	X99143	1.09359
RIKEN cDNA 4930556A20 gene	AK016140	-1.01211
trans-golgi network protein 2	NM_009444	-1.33699
RNA binding motif protein 6	NM_011251	-1.06824
RIKEN cDNA C630016O21 gene	AK083143	-1.07465
Inhibitor of DNA binding 1	NM_010495	-1.3506
Unknown		1.10074
X-linked lymphocyte-regulated 3b	NM_011727	-1.04073
secretogranin II	NM_009129	-1.04491
Mus musculus olfactory receptor 171 (Olfr171), mRNA [NM_146958]	NM_146958	-1.01364
Mus musculus RIKEN cDNA 6330527O06 gene (6330527O06Rik), mRNA [NM_029530]	NM_029530	1.10016
geranylgeranyl diphosphate synthase 1	NM_010282	-1.21994
defensin related cryptdin 5	NM_007851	1.08552
Mus musculus RIKEN cDNA 1110025I09 gene (1110025I09Rik), mRNA [NM_026795]	NM_026795	-1.27448
RIKEN cDNA A530045L16 gene	NM_021893	-1.08752
Mus musculus glucosamine (N-acetyl)-6-sulfatase (Gns), mRNA [NM_029364]	NM_029364	-1.1599
Mus musculus RIKEN cDNA 1700108L22 gene (1700108L22Rik), mRNA [NM_145988]	NM_145988	-1.04812
Mus musculus Williams-Beuren syndrome chromosome region 24 homolog (human)	NM_177574	-1.07425
RIKEN cDNA 2010005J08 gene	AK005556	-1.10425
Putative homeodomain transcription factor 2	AK035536	1
Ankyrin repeat and SAM domain containing 1	BC027740	1.09477
Hyaluronic acid binding protein 4	NM_019986	-1.2907
Mus musculus olfactory receptor 1122 (Olfr1122), mRNA [NM_147031]	NM_147031	1.01474
regulatory factor (trans-acting) 2	NM_009056	1.09308
RIKEN cDNA 1810057P16 gene	AK075801	-1.05739
Mus musculus RIKEN cDNA 4931407K02 gene (4931407K02Rik), mRNA [NM_029946]	NM_029946	1.13566
RIKEN cDNA 6330406L22 gene	AK041380	1.10197
zinc finger protein 319	NM_024467	1.00938
solute carrier family 8 (sodium/calcium exchanger), member 1	NM_011406	-1.1321
CDNA sequence BC026585	BC026585	1.04447
glutathione S-transferase, theta 1	NM_008185	1.07272

Mus musculus carbonic anhydrase 9 (Car9), mRNA [NM_139305]	NM_139305	1.04469
Aldehyde dehydrogenase family 1, subfamily A3	BC048941	1.0765
distal intestinal serine protease	NM_013921	1.06824
Proteasome (prosome, macropain) 26S subunit, non-ATPase, 14	BE979428	1
Mus musculus RIKEN cDNA 2610041P16 gene (2610041P16Rik), mRNA [NM_025641]	NM_025641	-1.20389
SET domain-containing protein 7	NM_080793	1.13212
Mus musculus SERTA domain containing 3 (Sertad3), mRNA [NM_133210]	NM_133210	-1.00596
RIKEN cDNA B230333C21 gene	AK046007	1.13396
Mus musculus olfactory receptor 914 (Olfr914), mRNA [NM_146786]	NM_146786	1.0479
CUB and Sushi multiple domains 2	AK046385	1.05858
vomer nasal 2, receptor, 10	NM_009486	1.03978
Mus musculus F-box only protein 2 (Fbxo2), mRNA [NM_176848]	NM_176848	1.09263
Androgen binding protein alpha	AF039064	1
RIKEN cDNA 4921508O11 gene	NM_026223	1.09673
cholecystokinin A receptor	NM_009827	-1.54192
cadherin 7	NM_011800	-1.06523
small inducible cytokine subfamily B (Cys-X-Cys), member 13	NM_018866	1.05334
BRG1/brm-associated factor 53A	NM_019673	-1.00223
RIKEN cDNA 1700009B20 gene	CA464216	1.17603
Mus musculus autophagy 7-like (S. cerevisiae) (Apg7l), mRNA [NM_028835]	NM_028835	1.11094
Myosin, light polypeptide kinase	AF314149	-1.02575
tubulin cofactor a	NM_009321	-1.32887
Protein phosphatase 1, regulatory (inhibitor) subunit 12B	AK046012	1.14559
rho GTPase activating protein 6	NM_009707	-1.57588
E26 avian leukemia oncogene 1, 5' domain	NM_011808	1.29209
Mus musculus adult male kidney cDNA, RIKEN full-length enriched library, clone AK002612	AK002612	1
Mus musculus adult male epididymis cDNA, RIKEN full-length enriched library, clone AK033804	AK033804	1.01385
Mus musculus RIKEN cDNA 4430402I18 gene (4430402I18Rik), mRNA [NM_198651]	NM_198651	-1.01997
Mus musculus forkhead box P1 (Foxp1), mRNA [NM_053202]	NM_053202	1.28441
Forkhead box N2	AK031639	1.01554
zinc finger protein 191	NM_021559	1.20967
Mus musculus chondrolectin (Chodl), mRNA [NM_139134]	NM_139134	-1.04546
cDNA sequence AF229032	NM_021449	-1.1015
Eukaryotic translation initiation factor 4, gamma 1	AK081982	1.10168
Mus musculus olfactory receptor 741 (Olfr741), mRNA [NM_207133]	NM_207133	-1.01473
Unknown		1.06154
peptide N-glycanase homolog (S.cerevisiae)	NM_021504	-1.28408
Mus musculus basophil 1 (Bnc1), mRNA [NM_007562]	NM_007562	-1.01302
nuclear receptor co-repressor 1	NM_011308	-1.05506
Mus musculus olfactory receptor 1014 (Olfr1014), mRNA [NM_146569]	NM_146569	1.0292
OLFACTORY RECEPTOR GA_X6K02T2NHDJ-9619796-9620794. [Source:SPTREMBL;Acc:G		1.11775
Cubilin (intrinsic factor-cobalamin receptor)	AF197159	1.04009
myeloid ecotropic viral integration site-related gene 2	NM_008627	-1.21241
Mus musculus protocadherin gamma subfamily A, 6 (Pcdhga6), mRNA [NM_03:NM_033589]	NM_03:NM_033589	-1.04602
Mus musculus cDNA sequence BC057893 (BC057893), mRNA [NM_173033]	NM_173033	1.12431
Mus musculus protocadherin gamma subfamily A, 2 (Pcdhga2), mRNA [NM_03:NM_033585]	NM_03:NM_033585	-1.00494
OLFACTORY RECEPTOR GA_X6K02T2Q125-49796506-49796568 (FRAGMENT). [Source:S		1.02123
Mus musculus RIKEN cDNA 6330406L22 gene (6330406L22Rik), mRNA [NM_027521]	NM_027521	-1.11644
RIKEN cDNA 2810003K23 gene	Z83807	-1.075
Myeloid/lymphoid or mixed-lineage leukemia 3	AK129377	1.20585
602961378F1 NCI_CGAP_Lu33 Mus musculus cDNA clone IMAGE:5116963 5'	BI409220	1.14239
lectin, galactose binding, soluble 12	NM_019516	-1.06378

Mus musculus ribonuclease P 40kDa subunit (human) (Rpp40), mRNA [NM_14:NM_145938		1.08247
Mus musculus amyotrophic lateral sclerosis 2 (juvenile) chromosome region, ca NM_172406		1.03653
602989759F1 NCI_CGAP_Lu33 Mus musculus cDNA clone IMAGE:5145615 5' BI414633		-1.06386
interleukin 5 receptor, alpha	NM_008370	-1.06026
Mus musculus mRNA for Z37 snoRNA.	AJ132685	1.1186
Mus musculus expressed sequence AI132321 (AI132321), mRNA [NM_178911:NM_178911		-1.08555
Mus musculus protein phosphatase 5, catalytic subunit (Ppp5c), mRNA [NM_01	NM_011155	-1.12432
Attractin	AB093245	-1.01787
RIKEN cDNA 2410030O07 gene	NM_027288	-1.03067
ATP-binding cassette, sub-family C (CFTR/MRP), member 6	NM_018795	1.07986
neuronal tyrosine/threonine phosphatase 1	NM_008748	1.06666
Mus musculus solute carrier family 17 (sodium-dependent inorganic phosphate	NM_080853	-1.03344
RIKEN cDNA 1110020M21 gene	NM_021432	1.17814
ephrin B3	NM_007911	-1.19056
Mus musculus vomeronasal 1 receptor, E4 (V1re4), mRNA [NM_134193]	NM_134193	-1.12511
Unknown		1.39567
Adenylate kinase 2	AB020202	-1.01962
Mus musculus adult male small intestine cDNA, RIKEN full-length enriched libra	AK008077	-1.91588
actin related protein M1	AK047260	1.05188
silica-induced gene 41	NM_009186	-1.58263
EST AA238765	NM_025308	-1.0056
Mus musculus similar to C5orf4 protein (LOC216763), mRNA [XM_137575]	XM_137575	1.16996
A8A1_MOUSE Potential phospholipid-transporting ATPase IA(Chromaffin granule ATPase II).		-1.33285
neutrophil elastase	NM_015779	1.1108
Mus musculus guanine nucleotide binding protein (G protein), gamma transduci	NM_023121	-1.15321
Ribonucleotide reductase M2 B (TP53 inducible)	AK047540	1.0314
Mus musculus RIKEN cDNA A930027K05 gene (A930027K05Rik), mRNA [NM_	NM_175556	1.08641
D-amino acid oxidase 1	NM_010018	1.12402
Mus musculus RIKEN cDNA 1600023A02 gene (1600023A02Rik), mRNA [NM_	NM_026323	-1.5245
Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalact	NM_198306	1.09078
Transcribed locus	AW047155	1.0575
RNA binding motif protein 27	AK042613	1.04988
Mus musculus RAB15, member RAS oncogene family (Rab15), mRNA [NM_13:	NM_134050	-1.31625
Leucine-rich repeats and calponin homology (CH) domain containing 4	BC027789	1.01938
Dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 3	AK035114	1.11997
OLFACTORY RECEPTOR GA_X6K02T2Q125-49372426-49373358. [Source:SPTREMBL;Acc		-1.03106
bone morphogenetic protein receptor, type 1B	NM_007560	-1.02048
Mus musculus DIRAS family, GTP-binding RAS-like 1 (Diras1), mRNA [NM_14:	NM_145217	1.07364
Mus musculus aconitase 1 (Aco1), mRNA [NM_007386]	NM_007386	-1.20399
Mus musculus expressed sequence AA415817 (AA415817), mRNA [NM_05318	NM_053181	1.00078
Mus musculus UDP glycosyltransferase 2 family, polypeptide A1 (Ugt2a1), mRN	NM_053184	-1.05731
Unknown		-1.11707
hypothetical protein D630002G06	NM_172776	-1.02324
Leiomodin 1 (smooth muscle)	AF237627	-1.12736
Mus musculus RIKEN cDNA A430025D11 gene (A430025D11Rik), mRNA [NM_	NM_172526	1.11782
eukaryotic translation initiation factor 4E	NM_007917	-1.76032
Mus musculus expressed sequence AI987692 (AI987692), mRNA [NM_177912	NM_177912	-1.03942
adenylate cyclase activating polypeptide 1	NM_009625	1.20642
Mus musculus similar to hypothetical protein BC004507 (LOC216964), mRNA [	XM_126427	1.06951
Mus musculus RIKEN cDNA 1200011M11 gene (1200011M11Rik), mRNA [NM_	NM_024262	-1.03134
cyclin-dependent kinase 5, regulatory subunit (p35)	NM_009871	1.12166
complement component 1, q subcomponent, c polypeptide	NM_007574	1.07797

Immunoglobulin heavy chain 6 (heavy chain of IgM)	AF289178	1.01007
Ttk protein kinase	NM_009445	1.04816
Mus musculus RIKEN cDNA 2610529I12 gene (2610529I12Rik), mRNA [NM_145706]	NM_145706	-1.22089
solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1	NM_008732	1.03494
ribosomal protein L27	NM_011289	-1.13044
Mus musculus arrestin domain containing 1 (Arrdc1), mRNA [NM_178408]	NM_178408	1.13202
Unknown		-1.22418
Expressed sequence AI834762	AI834762	1.01792
Mus musculus Fanconi anemia, complementation group G (Fancg), mRNA [NM_053081]	NM_053081	1.25557
Mus musculus ADP-ribosylation factor interacting protein 2 (Arfp2), mRNA [NM_029802]	NM_029802	-1.00046
ring-box 1	NM_019712	-1.12383
Quiescin Q6-like 1	AK042036	1.03247
Mus musculus beta-1,3-glucuronyltransferase 1 (glucuronosyltransferase P) (B3)	NM_029792	1.1333
Unknown		1.00397
Mus musculus ubiquitin specific protease 43 (Usp43), mRNA [NM_173754]	NM_173754	1.00581
subcommissural organ spondin	NM_173428	1.02074
UBPO_HUMAN Ubiquitin carboxyl-terminal hydrolase 24(Ubiquitin thiolesterase 24) (Ubiquitin-mutT (E. coli) human homolog (8-oxo-dGTPase)	NM_008637	-1.11608
Adrenergic receptor, beta 2	AK080276	-1.08447
Mus musculus mucin 4 (Muc4), mRNA [NM_080457]	NM_080457	-1.26642
RIKEN cDNA 2610027F03 gene	AK011565	1.10859
ataxin 2 binding protein 1	NM_183188	1.02623
Mus musculus keratin associated protein 16-5 (Krtap16-5), mRNA [NM_130857]	NM_130857	1.0299
beta-site APP-cleaving enzyme 2	NM_019517	-1.17427
carboxylesterase [mice, liver, Balb/cj X DBA/2J, mRNA, 2007 nt].	S64130	1
cytochrome P450, 3a16	NM_007820	1.04505
Unknown		1.0735
Mus musculus clone MBI-42 H/ACA box snoRNA, partial sequence.	AF357393	-1.30928
similar to glyceraldehyde-3-phosphate dehydrogenase	NM_00100197	1.19791
lysosomal-associated protein transmembrane 4B	NM_033521	-1.47999
Pelota homolog (Drosophila)	BC014765	1.16807
Mus musculus tumor necrosis factor receptor superfamily, member 21 (Tnfrsf21)	NM_178589	1.0413
Axin 1	AF009011	1.07306
Mus musculus 13 days embryo liver cDNA, RIKEN full-length enriched library, clone AK010915	AK010915	-1.24733
Mus musculus glycoprotein Ib, beta polypeptide (Gp1bb), transcript variant 1, mRNA [NM_00100199]	NM_00100199	1.04324
RIKEN cDNA 2310058N18 gene	AK053678	1.0451
Cytoplasmic polyadenylation element binding protein 4	AY313775	1.14512
RIKEN cDNA 1700106J16 gene	AK007129	1.19863
RIKEN cDNA 4930408F14 gene	AK015110	-1.04809
Unknown		1.0945
Mus musculus THUMP domain containing 1 (Thumpd1), mRNA [NM_145585]	NM_145585	-1.21928
glial cell line derived neurotrophic factor family receptor alpha 1	NM_010279	-1.07078
RIKEN cDNA 1110003E08 gene	AK045695	1.06572
Fibroblast growth factor 12	AK084481	1
translocase of outer mitochondrial membrane 40 homolog (yeast)	NM_016871	1.18414
ganglioside-induced differentiation-associated-protein 1	NM_010267	1.11854
RIKEN cDNA A430107D22 gene	AK088987	1.19539
Geranylgeranyl diphosphate synthase 1	AK020659	-1.67165
Unknown		-1.07778
Mus musculus ankyrin repeat domain 27 (VPS9 domain) (Ankrd27), mRNA [NM_178263]	NM_178263	1.07206
WASP family 1	NM_031877	-1.01042
Mus musculus RIKEN cDNA 2810422O20 gene (2810422O20Rik), mRNA [NM_027279]	NM_027279	1.0146

Mus musculus peptide YY (Pyy), mRNA [NM_145435]	NM_145435	1.03167
C-terminal binding protein 1	NM_013502	-1.03216
Mus musculus olfactory receptor 975 (Olf975), mRNA [NM_146828]	NM_146828	1.09859
SAM domain, SH3 domain and nuclear localisation signals, 1	NM_023380	-1.18637
Dynein, axonemal, heavy chain 3	Z83816	1.19373
Mus musculus RIKEN cDNA C030046I01 gene (C030046I01Rik), mRNA [NM_177994]	NM_177994	1.01935
Unknown		1.04148
Pleckstrin homology domain interacting protein	AB049460	-1.01015
Myosin, heavy polypeptide 8, skeletal muscle, perinatal	AF336977	1.13844
Mus musculus RIKEN cDNA 4933427D14 gene (4933427D14Rik), mRNA [NM_028963]	NM_028963	-1.18443
Mus musculus porcupine homolog (Drosophila) (Porcn), transcript variant Mporc	NM_023638	1.14936
Unknown		1.09533
germ cell-specific gene 2	NM_010353	1.10731
CEA-related cell adhesion molecule 1	NM_011926	1.24545
Mus musculus cytochrome P450, family 4, subfamily a, polypeptide 10 (Cyp4a1)	NM_010011	1.03587
Unknown		1.00888
SLIT-ROBO Rho GTPase activating protein 2	AY057900	1.10116
CEA15 PROTEIN (FRAGMENT). [Source:SPTREMBL;Acc:O08930] [ENSMUST00000067711]		-1.11689
C-type lectin domain family 14, member a	NM_025809	1.05855
WD repeat domain 54	NM_023790	-1.0248
Unknown		1.01613
Mus musculus RIKEN cDNA 1110028A07 gene (1110028A07Rik), mRNA [NM_026808]	NM_026808	1.04655
RIKEN cDNA 4930466G16 gene	AK019639	1.12138
Netrin 3	AF149094	1.01135
Mus musculus BTB (POZ) domain containing 1 (Btbd1), mRNA [NM_146193]	NM_146193	-1.55465
lysozyme	NM_017372	-1.53117
Mus musculus RIKEN cDNA D930038D03 gene (D930038D03Rik), mRNA [NM_177142]	NM_177142	1.02434
crystallin, beta B3	NM_021352	-1.02863
pyruvate dehydrogenase E1 alpha-like	NM_008811	1.08025
3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide	NM_018871	-1.05035
Cystatin 12	AF440737	-1.1091
PAX interacting (with transcription-activation domain) protein 1	NM_018878	-1.17062
Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 1B (Ppp1r1b)	NM_144828	1.04336
GTP-rho binding protein 1	NM_008164	-1.06828
Immunoglobulin kappa chain variable 21 (V21)	U26472	1.04094
Mus musculus Brca1 associated protein 1 (Bap1), mRNA [NM_027088]	NM_027088	1.02304
cadherin 23 (otocadherin)	NM_023370	1.06766
RIKEN cDNA 1810054D07 gene	AK049108	-1.276
cytochrome P450, 11a, cholesterol side chain cleavage	NM_019779	-1.06259
RIKEN cDNA 5830477G23 gene	AK018056	1.0626
small inducible cytokine A27	NM_011336	-1.30872
thyrotropin releasing hormone receptor	NM_013696	1.01162
cytoplasmic tyrosine kinase, Dscr28C related (Drosophila)	NM_013689	-1.12874
heme oxygenase (decycling) 2	NM_010443	-1.0646
Mus musculus RIKEN cDNA 1700030A21 gene (1700030A21Rik), mRNA [NM_026992]	NM_026992	-1.74032
Unknown		1.05352
Mus musculus adult male cecum cDNA, RIKEN full-length enriched library, clone	AK018651	-1.14873
DNA segment, Chr 16, Brigham & Women's Genetics 1494 expressed	AB041601	-1.04299
Mus musculus olfactory receptor 558 (Olf558), mRNA [NM_147093]	NM_147093	1.08392
RIKEN cDNA 1810057C19 gene	NM_026433	-1.0996
Calcium channel, voltage-dependent, L type, alpha 1D subunit	AK018426	-1.11668
Mus musculus plexin domain containing 1 (Plxdc1), mRNA [NM_028199]	NM_028199	1.02099

RIKEN cDNA 4930526H21 gene	AK015903	1.19231
RIKEN cDNA 5730555F13 gene	AK083079	1
Mus musculus transducin-like enhancer of split 4, homolog of Drosophila E(spl)	NM_011600	1.0028
Mus musculus expressed sequence BB146404 (BB146404), mRNA [NM_178908]	NM_178908	-1.02429
Outer dense fiber of sperm tails 2	BC057001	1.05634
dishevelled 2, dsh homolog (Drosophila)	NM_007888	-1.11205
Mus musculus hypothetical protein LOC223773 (LOC223773), mRNA [NM_181412]	NM_181412	-1.19214
Mus musculus expressed sequence AW413632 (AW413632), transcript variant	NM_177588	-1.3054
Mus musculus gap junction membrane channel protein alpha 12 (Gja12), mRNA	NM_175452	1.08419
DNA segment, Chr 1, Pasteur Institute 1	NM_033077	-1.14299
DNA segment, Chr 17, Wayne State University 92, expressed	AK082788	-1.17653
Unknown		1.02957
growth differentiation factor 15	NM_011819	-1.00252
RIKEN cDNA 4921525L17 gene	AK035181	1.13936
RIKEN cDNA 4931433A01 gene	AK016502	1.05152
Reticulon 4 interacting protein 1	AF336862	1.24707
Unknown		1.11743
Mus musculus RIKEN cDNA 0610012H03 gene (0610012H03Rik), mRNA [NM_028747]	NM_028747	1.10393
lymphocyte antigen 86	NM_010745	1.02847
RIKEN cDNA 2610005L07 gene	BC007164	-1.30025
Mus musculus olfactory receptor 935 (Olfr935), mRNA [NM_146746]	NM_146746	1.04852
RAD23b homolog (S. cerevisiae)	NM_009011	-1.05692
RIKEN cDNA 1810009A16 gene	AK082231	-1.18997
calcium channel, P/Q type, alpha 1A	NM_007578	-1.06958
Expressed sequence AI987712	AK083198	1.07449
Mus musculus RIKEN cDNA 1810033A06 gene (1810033A06Rik), mRNA [NM_026981]	NM_026981	-1.66301
procollagen, type XI, alpha 2	NM_009926	1.0447
RIKEN cDNA C030004N09 gene	AJ010902	-1.26056
Mix1 homeobox-like 1 (Xenopus laevis)	NM_013729	1.13883
bone morphogenetic protein 2	NM_007553	1.04854
cofilin 1, non-muscle	NM_007687	1.0123
Zinc finger protein 644	AK053146	1.02591
Mus musculus olfactory receptor 1283 (Olfr1283), mRNA [NM_207236]	NM_207236	1.02863
Mus musculus beta galactoside alpha 2,6 sialyltransferase 2 (St6gal2), mRNA [NM_172829]	NM_172829	-1.01471
Translocase of inner mitochondrial membrane 50 homolog (yeast)	BC037056	1.49929
Strain C57BL odorant receptor B4 pseudogene, partial mRNA sequence	AF178753	1.02064
Mus musculus immune associated nucleotide 3 (Ian3), mRNA [NM_146167]	NM_146167	1.04168
Mus musculus RIKEN cDNA 2900011O08 gene (2900011O08Rik), mRNA [NM_144518]	NM_144518	1.19484
Solute carrier family 25, member 28	AK034173	1.09751
Histone 1, H1e	NM_015787	1.11597
Mus musculus solute carrier organic anion transporter family, member 2b1 (Slc22b1)	NM_175316	1.09342
Chromatin modifying protein 1B	NM_024190	-1.10819
Mus musculus isoleucine-tRNA synthetase (lars), mRNA [NM_172015]	NM_172015	-1.10206
RIKEN cDNA 1700007N14 gene	AK005740	-1.15871
RIKEN cDNA 4930534B04 gene	AK015961	-1.02008
Mus musculus RIKEN cDNA 4933431N12 gene (4933431N12Rik), mRNA [NM_027758]	NM_027758	1.00678
Mus musculus BTB (POZ) domain containing 3 (Btd3), mRNA [NM_145534]	NM_145534	1.00439
tubulin alpha 8	NM_017379	-1.23375
guanosine diphosphate (GDP) dissociation inhibitor 3	NM_008112	-2.23696
Mus musculus olfactory receptor 259 (Olfr259), mRNA [NM_146770]	NM_146770	-1.01602
Unknown		-1.04351
Mus musculus 12 days embryo female ovary cDNA, RIKEN full-length enriched	AK032691	-2.30514

UI-M-BH2.3-aqc-f-01-0-UI.r1 NIH_BMAP_M_S3.3 Mus musculus cDNA clone U BE651613		1.05454
growth arrest specific 2	NM_008087	-1.11145
RIKEN cDNA 1700012F10 gene	BC048165	-1.16166
pleckstrin homology, Sec7 and coiled/coil domains 3	NM_011182	-1.4243
Mus musculus EGF-like domain 7 (Egfl7), transcript variant a, mRNA [NM_1784	NM_178444	1.00193
RIKEN cDNA E130201H02 gene	AK021400	1.12589
phosphodiesterase 10A	NM_011866	1.04554
MAP-kinase activating death domain	AK036347	-1.06706
Mus musculus serine dehydratase-like (Sds1), mRNA [NM_133902]	NM_133902	1.03661
Mus musculus olfactory receptor 689 (Olfr689), mRNA [NM_146750]	NM_146750	1.0673
RIKEN cDNA 4933413A10 gene	AK030181	-1.08185
T-cell lymphoma invasion and metastasis 1	NM_009384	-1.3435
galanin	NM_010253	-1.00741
Mus musculus olfactory receptor 1265 (Olfr1265), mRNA [NM_146343]	NM_146343	-1.01971

WT/CON v	WT/CON v	WT/CON v	WT/CON v	WT/CON v	WT/CON v	WT/CON v	WT/CON v	WT/CON v	WT/CON v
P-Value	Ratio	Intensity 1	Intensity 2	Fold Change	P-Value	Ratio	Intensity 1	Intensity 2	
0.35954	1.05619	3055.733	3227.323	2.12913	1.40E-45	2.12913	3008.051	6404.955	
0.08651	1.16098	4357.601	5101.172	2.38839	0	2.38839	3914.293	9347.21	
0.4991	0.95754	8179.974	7812.864	-1.01352	0.79949	0.98666	7770.129	7658.785	
0.83104	0.98263	598.2861	589.5554	1.20055	0.04491	1.20055	503.5513	606.1615	
0.22009	0.80595	5547.6	4337.962	-1.39479	2.00E-10	0.71695	4687.582	3351.812	
0.80576	1.11667	77.0687	86.4504	-1.0192	0.9693	0.98117	72.64873	70.77135	
0.66336	0.8292	99.99899	84.81066	-2.27244	0.32857	0.44006	71.30967	30.54626	
0.54633	1.02768	2710.65	2783.842	-1.02789	0.53391	0.97287	2756.898	2682.094	
2.24E-07	0.55174	2029.861	1110.446	-1.02428	0.75228	0.97629	1347.889	1319.824	
0.72796	1.0529	330.8247	351.6935	1.23687	0.09426	1.23687	298.8127	370.9374	
0.39503	0.95895	3745.737	3590.156	-1.35364	4.34E-07	0.73875	3438.216	2540.792	
0.58927	0.88428	4307.915	3746.38	1.31743	2.88E-06	1.31743	3071.53	4059.849	
0.69296	1.01732	3889.276	3956.298	-1.22717	0.00696	0.81488	4332.865	3553.914	
0.38682	1.04563	1194.235	1247.608	-1.09233	0.26549	0.91547	1281.404	1166.848	
0.90873	0.97765	232.1362	223.0876	1.03841	0.82552	1.03841	221.4053	230.6429	
0.1543	1.0969	647.4109	709.5542	1.04751	0.62924	1.04751	630.198	658.3019	
0.36359	1.09526	402.5584	439.1311	-1.52696	0.02286	0.6549	397.5242	258.0487	
0.00334	0.76515	1105.234	846.2152	1.27381	0.0236	1.27381	962.8171	1222.505	
0.77777	1.03717	285.4201	294.6675	1.50441	0.00374	1.50441	250.972	379.0595	
0.90205	0.97524	575.4533	573.7029	-2.23887	0.00326	0.44665	389.8497	179.4419	
0.76859	1.06216	264.227	276.0664	1.15809	0.39924	1.15809	246.3185	287.7624	
0.52173	1.04198	1873.309	1944.163	-1.00934	0.83967	0.99075	2754.645	2730.965	
0.65131	1.02762	9957.946	10224.75	-1.42214	1.17E-08	0.70316	9688.438	6819.85	
1	1	17.82652	22.33746	1	1	1	18.34115	29.64131	
0.90838	1.01579	268.6924	273.1448	1.13168	0.32503	1.13168	384.3187	434.0286	
0.95673	0.99606	431.4132	429.7322	1.01704	0.88215	1.01704	395.7991	401.0084	
0.11999	1.07958	1106.053	1194.188	1.43354	5.23E-11	1.43354	1025.806	1470.357	
0.97591	0.98953	93.14546	93.10033	-1.04423	0.92764	0.95764	102.0057	96.86977	
0.6303	0.92191	1203.073	1101.751	1.12124	0.34579	1.12124	1063.622	1199.109	
0.10375	0.89687	4315.832	3865.344	1.24061	0.02664	1.24061	4052.402	5039.535	
0.12832	1.08709	2837.971	3092.565	1.0301	0.60388	1.0301	3339.546	3435.113	
0.74657	0.81367	53.37628	44.07254	-1.06755	0.95617	0.93672	32.27565	33.49052	
0.58043	1.03342	3984.666	4084.79	1.00473	0.90958	1.00473	4133.158	4153.15	
0.72278	1.02844	574.2145	591.6317	-1.19913	0.02272	0.83394	593.1798	494.2654	
0.11403	0.75664	508.9498	376.899	3.20987	2.67E-08	3.20987	347.3727	1154.284	
0.75229	1.07062	152.4646	162.4306	-1.09718	0.76446	0.91142	164.4274	153.381	
0.26226	0.88988	779.1222	689.314	6.28768	0	6.28768	698.4762	4402.573	
0.64306	1.19629	80.28596	94.68555	1.34926	0.73583	1.34926	45.85044	69.80137	
0.28797	1.06059	1330.12	1414.031	1.01875	0.7616	1.01875	1404.839	1428.761	
0.5697	0.8726	180.7665	160.6324	-1.59864	0.10444	0.62553	151.2492	94.65472	
0.86715	1.02575	412.3292	416.129	1.6598	0.00004	1.6598	330.7553	552.1332	
0.36141	0.93573	933.7917	874.1798	1.18054	0.25986	1.18054	799.7684	938.6638	
0.97227	1.0107	122.4638	123.2958	-1.31625	0.48351	0.75973	130.3249	100.6197	
0.26834	0.85153	256.6658	217.6002	1.16821	0.3687	1.16821	211.4734	248.1236	
0.34827	1.06437	1102.983	1177.358	-1.06187	0.41603	0.94173	1337.386	1256.176	
0.57841	0.83869	150.1355	123.7127	6.42054	0	6.42054	124.3431	798.5579	
0.91016	1.02116	243.9235	250.5787	-2.84981	0.02897	0.3509	170.6555	57.2335	
0.41826	0.84726	2772.244	2346.824	-1.6573	3.54E-16	0.60339	2349.007	1417.914	
0.00001	0.76099	1879.988	1428.505	-1.2331	0.00046	0.81097	1630.811	1323.485	
0.87979	1.01613	743.2826	759.7478	-1.52849	0.00002	0.65424	896.7081	583.6758	

0.18187	1.18135	1093.062	1295.575	-1.96024	9.08E-09	0.51014	1402.782	710.8101
0.57032	1.04191	1673.01	1754.048	-1.0135	0.80031	0.98668	1819.829	1792.912
0.15099	0.83039	2067.483	1730.426	1.46694	0.00059	1.46694	1863.34	2760.49
0.36324	0.84678	220.0868	184.8727	1.04842	0.73681	1.04842	284.0757	298.9995
0.88291	1.05373	100.2903	105.0011	1.04667	0.89642	1.04667	110.3034	114.0828
0.03723	0.80789	7910.353	6398.133	-1.50127	4.69E-06	0.6661	7302.53	4837.081
0.77033	0.97955	1503.359	1479.427	-1.0579	0.21957	0.94527	1553.601	1468.546
0.96025	1.00263	1157.743	1162.076	-1.06749	0.34444	0.93678	1026.573	962.8289
0.00313	0.86863	5143.567	4470.574	1.19275	0.00293	1.19275	4265.341	5086.684
0.44577	1.04756	5462.292	5710.677	1.02574	0.60618	1.02574	6064.505	6215.266
0.28161	0.85003	272.9299	230.4308	-1.2216	0.21906	0.8186	278.6188	228.2395
0.64565	0.93362	554.0637	524.9384	-1.04338	0.67577	0.95843	486.3506	467.6972
0.0001	0.76307	1165.118	886.7653	1.04847	0.61913	1.04847	1002.622	1056.685
0.76158	0.97084	475.881	460.6498	1.40392	0.00743	1.40392	510.8814	712.5432
0.11569	1.25551	598.8611	744.844	2.80558	2.97E-38	2.80558	572.4166	1605.176
0.67991	1.232	70.50253	86.22652	1.33501	0.55276	1.33501	81.67238	113.0107
0.01985	1.10518	1748.076	1931.889	-1.16489	0.00116	0.85845	1911.674	1640.363
0.25772	1.05961	2422.48	2570.892	1.05282	0.24041	1.05282	2977.698	3134.579
1	1	21.62957	24.94456	1.19411	0.8751	1.19411	23.95893	39.17259
0.51278	0.94431	1314.467	1231.096	-1.0611	0.39635	0.94242	1023.052	966.1033
0.46967	1.04334	1814.31	1902.942	-1.43985	2.18E-07	0.69452	2043.816	1422.44
0.03645	0.78315	932.5205	725.4686	1.29619	0.02141	1.29619	748.59	976.9598
0.19346	1.07447	4960.104	5326.023	-1.07442	0.1066	0.93074	5573.398	5184.156
1	1	18.7634	23.88778	1	1	1	17.90207	30.34982
0.97691	1.00473	358.2333	354.2876	1.15251	0.33528	1.15251	296.1981	342.4237
6.42E-06	0.74766	3402.117	2544.495	1.02249	0.70835	1.02249	2894.943	2959.895
0.06869	0.77578	277.9487	216.4448	-1.17201	0.371	0.85324	230.8018	196.1631
0.07631	0.80384	3244.601	2639.527	2.13929	5.12E-15	2.13929	3424.496	7299.337
0.02606	1.15758	539.2714	624.3989	1.18461	0.02721	1.18461	606.6265	719.1987
0.92035	0.98803	357.4506	354.6682	-1.07673	0.75322	0.92874	317.0835	296.847
0.82207	1.01352	1674.034	1700.407	1.702	2.78E-24	1.702	1686.721	2870.282
0.441	0.95232	13721.28	13100.01	1.07123	0.21747	1.07123	13976.29	14982.28
0.16395	1.11354	452.3577	503.8583	1.06497	0.52056	1.06497	407.9933	435.285
0.01202	0.77409	5165.001	3980.11	1.40955	0.00128	1.40955	4406.329	6211.842
0.58587	1.05769	335.5549	354.7653	-1.02837	0.76656	0.97241	581.0763	563.2622
0.36628	0.92113	783.326	723.7224	-1.29286	0.00051	0.77348	879.7579	681.0997
0.00828	0.75108	732.1843	545.6228	1.05906	0.46538	1.05906	558.0359	590.1807
0.52934	0.96701	5221.649	5062.351	1.14826	0.09758	1.14826	4869.479	5604.519
0.19977	0.92263	1060.648	980.3667	-1.14122	0.08399	0.87625	1002.205	876.9775
0.03401	0.83832	1052.007	886.3024	-1.20367	0.03399	0.83079	1002.071	829.788
0.01513	0.72373	440.9504	315.7073	-2.09266	1.88E-08	0.47786	376.5277	180.0141
0.92914	0.99454	1649.551	1636.737	1.06299	0.40043	1.06299	1533.99	1633.693
0.98142	0.9938	125.5521	125.9368	1.0198	0.96137	1.0198	98.29318	100.6404
0.05155	0.89558	2016.26	1803.199	-1.0087	0.87503	0.99138	1818.271	1804.421
0.98997	0.99755	173.0749	173.0533	-1.09442	0.66191	0.91373	177.4893	162.1704
0.00355	0.80225	2542.704	2039.767	-1.08475	0.17469	0.92187	1972.758	1820.944
0.77948	0.9428	607.6392	587.689	-1.77184	0.00355	0.56439	569.2579	315.2501
7.08E-06	0.71414	909.6314	648.5366	-1.13302	0.09095	0.8826	962.3509	848.2123
0.00309	0.86316	3499.602	3019.661	-1.15358	0.10669	0.86687	2914.878	2533.459
0.28637	0.93877	2028.171	1908.281	-1.04764	0.49321	0.95453	1952.61	1861.289
0.92811	1.02194	207.3985	215.3991	-1.56361	0.07519	0.63955	159.7946	102.1351
0.06846	1.14577	801.338	914.8129	1.20558	0.00015	1.20558	965.5398	1164.008

0.91323	1.02164	165.3471	168.3998	1.42571	0.12886	1.42571	138.9249	196.7261
0.27133	1.06935	2327.683	2497.218	-1.04751	0.36023	0.95464	2598.074	2478.577
0.24054	0.86603	1962.341	1689.826	1.22113	0.10167	1.22113	1756.954	2160.221
0.31656	0.92948	922.8481	860.8554	1.1815	0.04347	1.1815	768.2036	905.0342
0.6973	1.1424	148.0353	166.6941	-1.21477	0.57081	0.8232	144.7513	120.7142
0.16356	0.90919	3774.297	3428.687	-1.22294	0.00005	0.8177	3490.813	2854.373
0.70399	0.97206	729.2903	710.8207	-1.0972	0.14874	0.91141	729.2943	664.3773
0.11304	1.10181	2387.552	2628.456	2.06706	4.95E-14	2.06706	2551.75	5280.701
8.15E-07	0.68668	15022.48	10355.07	-1.02725	0.74466	0.97348	13529.57	13164.95
0.0833	0.88802	867.2456	768.5933	-1.23111	0.02655	0.81227	693.368	565.0064
0.41859	1.06507	733.9874	784.1043	1.21875	0.02521	1.21875	722.8411	878.6659
0.34195	1.05177	7779.967	8170.459	-1.048	0.38567	0.9542	8325.755	7918.793
0.15332	1.1129	1644.468	1833.639	-1.41192	6.96E-06	0.70825	1438.236	1017.723
0.53026	0.92353	255.7519	235.7753	-1.20077	0.35579	0.8328	208.2208	174.1126
0.77051	1.02341	758.4478	778.6555	1.04065	0.65576	1.04065	734.071	761.3842
0.57145	1.03736	641.1812	664.4421	1.0417	0.73005	1.0417	698.9697	724.5422
0.00081	0.78576	812.6852	637.1807	-1.00177	0.98021	0.99824	630.7943	629.5981
0.90877	1.02401	215.8337	224.2486	-1.14602	0.56598	0.87258	195.0054	170.8351
0.94722	0.9964	1617.628	1610.016	1.63593	7.05E-07	1.63593	1797.893	2952.652
0.31334	1.15474	348.3187	396.3384	-1.01884	0.83433	0.98151	724.9994	713.9114
0.18475	1.07899	1074.585	1161.629	-1.02227	0.76464	0.97821	1311.874	1278.468
0.79549	1.02016	812.2809	832.0836	1.0177	0.78183	1.0177	729.4899	742.9028
0.70306	1.1296	94.1291	105.9446	1.15875	0.63628	1.15875	100.4091	116.3704
0.49299	1.10408	2507.023	2761.836	-2.23641	6.06E-10	0.44714	3193.158	1399.536
0.89919	1.08002	70.17688	74.81689	-1.73398	0.61424	0.57671	52.28042	29.77287
1.35E-12	0.60249	2322.39	1397.325	1.21527	0.00002	1.21527	1660.755	2017.954
0.07165	1.17952	14806.67	17332.75	-2.0201	5.24E-10	0.49502	18168.48	8768.609
0.25419	0.89634	4143.031	3693.208	-1.17925	0.00583	0.84799	4265.892	3618.427
0.08689	0.83368	1454.65	1204.45	2.14313	4.33E-13	2.14313	1229.521	2657.172
0.51186	0.92065	619.9448	564.7408	1.75689	2.72E-10	1.75689	443.8926	781.9523
0.00364	0.73212	662.5892	482.152	-1.37023	0.01224	0.7298	568.7063	418.1133
0.54623	1.04107	947.6598	983.8008	-1.03289	0.61274	0.96816	970.923	938.6685
0.56447	0.81416	110.9972	90.17533	2.09983	0.00702	2.09983	98.88979	208.6822
0.80841	1.02214	497.2524	507.1568	3.44303	1.38E-10	3.44303	444.652	1558.478
0.65961	0.96257	1050.735	1017.795	-1.0892	0.40066	0.91811	1127.04	1030.8
0.20872	1.07886	1172.737	1262.407	-1.0346	0.51374	0.96656	1266.041	1222.98
0.24084	0.80807	17949.41	14235.75	1.4097	0.01785	1.4097	14847.82	21229.14
1	1	17.31635	24.47719	1	1	1	16.89614	31.43132
0.83428	1.10641	73.02599	78.70879	1.10765	0.82366	1.10765	65.11555	72.09741
0.62112	1.05756	42379.92	44819.18	1.03783	0.59738	1.03783	47695.14	49379.48
0.62895	0.94007	610.3843	579.7342	-1.19029	0.10479	0.84013	498.8523	420.1671
0.99081	1.00183	258.6088	261.5109	-1.04028	0.86285	0.96128	235.3561	224.3229
0.84084	0.92624	104.6837	94.66127	2.61053	0.0034	2.61053	87.30847	231.5004
0.00491	0.72255	591.3668	423.5916	-1.32822	0.05551	0.75289	473.3789	360.2231
0.68175	1.07889	859.4741	919.0124	1.77316	0.00236	1.77316	759.6953	1380.222
0.9393	0.9947	1715.019	1716.008	-1.0525	0.4573	0.95011	1769.245	1677
0.82665	1.05179	132.2802	139.1446	1.118	0.74904	1.118	115.732	127.7888
0.50354	0.90012	326.8082	297.9863	-1.35261	0.40878	0.73931	294.1854	217.4943
0.63349	0.96074	437.5127	420.2993	1.07705	0.68602	1.07705	259.3926	281.7451
0.27324	0.94044	2728.651	2560.499	-1.17474	0.00112	0.85125	2580.124	2197.147
8.88E-10	2.17256	193725.7	420880.1	-1.65337	0.00024	0.60483	344445.9	195978.6
0.0699	0.88662	18363.56	16254.24	-1.04485	0.63225	0.95707	19332.57	18420.9

1.80E-34	3.18488	7589.97	23957.64	2.42688	1.80E-14	2.42688	10213.83	24943.75
0.97081	1.0456	33.07782	31.68277	-1.02324	0.98106	0.97729	53.21655	63.23853
0.76508	0.98276	1359.263	1337.369	-1.25348	9.21E-06	0.79778	1529.047	1220.081
0.01628	1.1544	1214.192	1399.46	1.19744	0.01351	1.19744	1703.44	2046.595
0.25047	0.784	192.759	151.9911	-1.01827	0.94233	0.98206	148.9777	145.5372
0.19793	1.07009	806.9706	863.3337	-1.0718	0.2408	0.93301	828.5989	773.2495
0.7644	0.95069	464.958	448.1316	-1.56175	0.01597	0.64031	378.9831	239.2173
0.33488	0.74855	200.7935	144.7188	-1.1778	0.5743	0.84904	152.4561	131.0251
0.26341	1.06403	1687.001	1790.78	-1.06543	0.21468	0.93859	1803.745	1691.468
0.56301	1.04915	22666.5	23954.87	-1.36856	3.44E-13	0.7307	25557.14	18668.4
0.1985	0.90403	1509.918	1367.689	1.39663	0.00001	1.39663	1436.385	2010.892
0.15047	1.08198	11222.45	12170.75	1.87155	7.79E-13	1.87155	12118.29	22702.52
0.00005	0.73782	2606.21	1928.624	-2.37388	4.23E-36	0.42125	2272.541	955.6104
0.87276	1.01251	2737.232	2797.28	-1.31952	0.00011	0.75785	2588	1951.289
0.80798	1.0116	1426.283	1443.183	-1.0771	0.25623	0.92842	1350.352	1251.428
0.34465	1.05144	4554.905	4801.419	1.31826	0.01029	1.31826	3834.695	5043.668
0.30263	0.89102	4813.552	4295.916	1.22206	0.00337	1.22206	4111.416	5034.075
0.31089	1.0628	1534.637	1638.698	1.04448	0.47675	1.04448	1593.464	1658.792
0.34548	1.04901	3495.927	3675.92	-1.04212	0.46458	0.95958	3651.69	3500.375
0.55933	1.11927	1289.071	1457.787	-3.17467	2.39E-36	0.31499	1090.688	344.0505
0.84613	0.96518	222.7932	212.8463	2.23675	3.42E-14	2.23675	279.2856	625.4069
0.66859	0.95052	296.4529	282.5613	1.15357	0.3975	1.15357	228.0153	263.5731
0.72774	0.96599	541.8591	520.5368	1.43263	0.00463	1.43263	444.8906	642.166
0.02941	0.68632	2395.441	1598.568	-1.12332	0.39765	0.89022	1796.777	1609.51
0.12553	1.08222	2220.322	2398.288	-1.04756	0.31132	0.9546	2621.392	2501.775
0.38377	1.07004	5351.771	5724.985	1.4778	4.05E-15	1.4778	5445.077	8050.105
0.32585	1.0724	1555.419	1663.919	-1.12701	0.02257	0.8873	1772.141	1574.055
0.47595	0.94176	1338.827	1260.364	-1.81523	2.05E-21	0.55089	1146.54	631.977
0.00002	0.6866	809.2569	557.9509	1.034	0.80062	1.034	637.5837	653.8127
0.12378	0.82048	18117.53	15149.66	2.93913	5.89E-15	2.93913	18802.37	55262.52
0.61152	0.97207	1752.88	1706.261	1.17835	0.00684	1.17835	1677.234	1973.294
0.59479	1.0848	330.1075	363.0814	1.20212	0.47425	1.20212	193.3903	247.0553
0.66643	1.04119	367.8409	382.2098	1.18125	0.12999	1.18125	369.4861	435.661
0.91436	0.99415	2935.518	2918.416	-1.13414	0.04393	0.88173	3152.51	2759.015
0.11365	0.72149	15283.54	11069.58	-1.48447	2.27E-13	0.67364	6298.092	4237.527
0.22063	1.0793	584.3535	630.9756	1.03472	0.62078	1.03472	599.7837	620.739
0.94471	0.99379	984.3439	975.6932	-1.05642	0.24004	0.94659	1478.648	1399.494
0.29179	0.9181	19194.72	17663.7	1.05604	0.31253	1.05604	19084.78	20120.57
0.48923	0.96326	1030.501	993.179	2.58727	0	2.58727	1048.179	2712.208
0.52477	1.03783	864.6035	898.4028	-1.07469	0.22095	0.9305	856.7683	796.9553
0.00362	0.68327	950.8033	641.9653	1.23572	0.00113	1.23572	699.1567	864.7056
0.76764	1.01717	1096.904	1116.447	1.52609	1.09E-11	1.52609	1111.575	1699.249
0.53852	1.07819	395.1416	429.9777	1.04007	0.79559	1.04007	302.2929	312.2487
0.00026	1.2502	9554.465	11900.47	-1.75771	1.05E-09	0.56892	15070.52	8420.818
0.66966	1.02488	2403.85	2479.885	-1.01828	0.77418	0.98205	2652.787	2599.382
0.075	0.75211	748.9813	552.8573	1.38826	0.02762	1.38826	542.012	760.4464
0.2266	1.07224	2347.952	2516.671	-1.02129	0.71199	0.97916	4273.996	4197.787
0.23807	0.87877	507.8807	443.3362	1.4796	0.00002	1.4796	412.2248	611.1666
0.89536	1.01487	380.1503	387.8116	1.09905	0.58464	1.09905	358.0218	386.8682
0.00734	0.74018	1399.607	1027.804	-1.02235	0.77634	0.97814	1127.269	1105.211
0.83689	1.01447	647.4283	655.5338	-1.02318	0.79977	0.97735	655.5471	642.4796
0.03537	1.08991	6251.108	6813.977	-1.01549	0.76257	0.98475	6797.421	6692.665

0.00221	0.85362	1590.372	1357.972	1.15483	0.00804	1.15483	1578.256	1824.218
0.66146	1.02949	500.6352	515.3207	1.10211	0.19699	1.10211	534.2955	588.3151
0.22615	0.8359	477.6016	392.6846	1.17521	0.06041	1.17521	525.0072	618.2362
0.79784	0.98264	1074.841	1054.307	1.12206	0.0415	1.12206	1152.25	1291.971
0.13178	1.08126	1429.882	1546.408	1.26174	0.00075	1.26174	1350.195	1706.657
0.71028	0.89631	803.8186	733.261	-9.19114	1.27E-13	0.1088	630.6099	66.38326
0.72759	0.92942	182.5688	168.3039	1.00502	0.98145	1.00502	159.0342	159.8039
0.09074	0.91208	1034.913	943.2975	1.07481	0.29106	1.07481	955.1634	1024.844
0.45463	0.94195	119.3384	111.9885	1.09188	0.10988	1.09188	100.9284	109.8776
0.10762	0.88874	1498.794	1328.382	1.27956	0.00321	1.27956	1304.271	1673.516
0.73519	1.02523	709.7368	729.6722	-1.15358	0.07379	0.86687	795.0562	687.4658
0.09738	1.246	412.9359	508.2289	1.25651	0.05721	1.25651	570.4761	711.8314
0.92326	0.98215	179.3967	175.4526	1.09392	0.65895	1.09392	207.4759	227.3518
0.60481	0.93625	877.1769	829.5167	1.21911	0.07929	1.21911	787.9634	956.7771
0.47949	0.96782	3204.055	3103.763	-1.14279	0.04736	0.87505	3532.146	3081.155
0.00004	0.71966	808.1045	579.7892	1.30511	0.00047	1.30511	627.7277	817.879
0.44671	0.72309	93.49512	66.9329	3.65106	2.16E-08	3.65106	77.94581	284.4976
0.93412	0.97658	111.8317	108.446	-1.13859	0.71326	0.87828	103.5608	90.96616
0.23659	1.07379	939.3697	1008.452	1.40223	0.00145	1.40223	831.3111	1162.583
0.45322	0.72128	114.838	79.8255	1.32639	0.45168	1.32639	80.91835	107.8218
0.40979	1.06342	873.4673	926.5113	1.06711	0.46458	1.06711	805.7253	857.7838
0.37499	0.87152	767.2394	659.0112	1.86526	3.57E-23	1.86526	603.5414	1125.38
0.08355	0.80476	4408.128	3557.127	1.38684	0.03228	1.38684	4676.313	6517.279
0.24789	1.20206	14484.14	17176.09	-2.53187	1.04E-07	0.39496	25467.98	9642.611
0.11557	0.93538	5153.969	4822.232	-1.27636	0.00002	0.78348	4785.288	3745.71
0.84073	0.95636	143.0431	136.6602	-1.14278	0.5516	0.87506	151.0843	132.1931
0.56266	1.06777	3690.346	3943.705	-1.66794	8.43E-06	0.59954	4965.884	2960.461
0.59575	1.06274	20233.53	21427.75	-1.59261	4.94E-11	0.6279	22566.12	14114.7
0.88285	1.0074	4180.933	4211.348	-1.18936	0.00015	0.84079	3891.769	3271.746
0.35543	1.04783	1209.708	1268.508	-1.01221	0.79112	0.98794	1379.747	1363.141
0.95687	0.98604	142.1093	141.7846	1.11222	0.73788	1.11222	98.16165	109.3475
0.00004	0.63468	2870.731	1806.382	1.24522	0.0007	1.24522	2145.304	2681.618
0.81689	1.01462	5674.232	5744.758	-1.036	0.45392	0.96525	5651.838	5467.434
1	1	19.00422	22.77508	1	1	1	17.4501	32.54926
0.93112	1.02275	123.7036	125.6858	1.24103	0.50586	1.24103	107.3018	132.8748
0.00088	0.72416	9968.509	7216.209	1.02349	0.69355	1.02349	9002.299	9196.422
0.02126	1.14861	2129.229	2450.825	-1.23883	0.01667	0.80721	2859.739	2302.18
0.2064	1.05485	3683.556	3887.206	-1.06754	0.1617	0.93674	3552.642	3323.761
0.04807	1.10901	1867.466	2074.786	-1.26622	0.00113	0.78975	2648.71	2080.492
0.05037	1.19191	691.7123	822.5249	2.1541	2.26E-08	2.1541	608.6876	1312.334
0.49383	0.91986	809.1867	749.2928	-1.02377	0.70508	0.97678	800.5306	782.3555
0.20997	0.8397	6743.631	5630.202	1.20316	0.08411	1.20316	5388.328	6537.101
0.70034	1.04324	286.8907	299.7614	1.41568	0.00629	1.41568	315.0721	444.5084
0.02429	1.15659	8436.871	9781.244	1.6823	9.05E-30	1.6823	7986.328	13436.38
0.52513	0.82604	104.4802	86.17384	-1.3751	0.52594	0.72722	87.47934	63.76636
0.59113	1.03527	3411.938	3522.14	-1.01256	0.80784	0.9876	3837.044	3793.37
0.18513	1.08406	5809.838	6328.089	-1.07782	0.23609	0.9278	6246.225	5794.359
0.99936	1.00005	1246.318	1245.37	1.33872	0.00022	1.33872	1679.768	2263.283
0.38297	0.90108	633.3687	575.7239	-1.16887	0.3444	0.85553	428.1253	372.2421
0.99936	0.99955	71.17149	71.78017	-1.0184	0.97833	0.98193	76.48061	72.38535
0.19577	1.22392	488.216	608.6296	-4.14433	1.10E-15	0.24129	697.7113	166.4292
0.25117	1.06217	1505.528	1597.583	-1.06033	0.2067	0.9431	1633.597	1540.284

0.22175	0.78222	184.3561	143.4363	-1.10904	0.65598	0.90168	164.9839	149.4069
0.80887	1.01832	1963.074	2009.143	-1.02045	0.80026	0.97996	2295.906	2243.356
0.60728	0.97466	2731.364	2662.159	-1.12281	0.04746	0.89062	2398.949	2136.469
0.67013	1.10081	173.9896	188.4268	1.07182	0.60253	1.07182	273.3956	293.7002
0.03258	0.80187	1242.889	998.0282	1.01748	0.87818	1.01748	861.8351	881.1863
0.00031	0.68691	1926.252	1321.834	-1.14139	0.06556	0.87612	1507.44	1323.224
0.00091	0.84341	1821.535	1537.28	1.22724	0.0255	1.22724	1499.507	1843.167
0.98186	0.99431	202.312	201.797	1.00692	0.97544	1.00692	199.2692	201.0342
0.22838	1.09162	1169.836	1278.214	1.26247	0.01254	1.26247	1104.667	1390.906
0.736	1.03459	563.2311	586.305	-1.07381	0.50017	0.93126	592.7895	553.9334
0.73207	0.97986	5648.357	5529.347	1.35079	1.89E-06	1.35079	5083.767	6866.884
0.07275	1.4937	145.5255	214.683	3.17119	3.67E-10	3.17119	111.3961	353.5771
0.04068	0.6045	563.6489	327.7742	-1.32531	0.17514	0.75454	383.1989	293.7987
0.03147	1.11994	1016.351	1137.926	-1.04674	0.52742	0.95535	993.267	947.3771
0.37246	1.13939	1905.907	2175.585	2.642	1.29E-10	2.642	1565.228	4232.298
0.09113	0.83253	13228.98	11041.35	1.51354	1.46E-09	1.51354	11487.96	17390.5
0.0658	0.76995	4407.277	3433.319	-1.49408	0.00168	0.66931	4622.064	3028.569
0.11138	1.20581	1477.441	1789.089	2.25297	1.71E-18	2.25297	1261.413	2854.211
0.90454	1.01493	318.4876	324.4894	-1.07153	0.68429	0.93325	280.9908	260.2154
0.8524	1.07919	87.2162	92.1893	1.19822	0.66148	1.19822	87.18369	104.1014
0.4024	0.96169	8759.244	8428.936	-1.16499	0.01321	0.85838	7806.292	6703.358
0.117	0.9158	195401	179028.2	-1.17694	0.02511	0.84966	269503.4	227055
0.98407	0.99634	270.6666	264.3781	1.52372	0.00208	1.52372	241.0357	367.8409
0.16147	1.10815	1247.403	1386.072	-1.06287	0.37813	0.94085	1348.399	1267.093
0.6863	1.04423	500.0718	525.8652	-1.0856	0.50596	0.92115	456.5768	421.2311
0.29516	0.91229	18023.25	16507.54	1.35259	5.13E-09	1.35259	17395.87	23539.73
0.07932	1.07991	15369.06	16595.53	-1.15964	0.02627	0.86234	14677.31	12632.48
0.62263	1.0423	1244.108	1296.601	-1.28091	0.00076	0.7807	1442.885	1131.25
0.86485	0.99073	3296.701	3269.967	1.24661	0.00103	1.24661	3470.73	4310.571
0.75969	1.11475	164.3272	198.5034	-1.72997	0.07625	0.57805	167.4536	96.65252
0.33773	1.12807	1367.83	1547.721	1.71918	4.18E-12	1.71918	1247.723	2148.875
0.02745	1.14776	9791.338	11260.55	-1.09836	0.3033	0.91045	11917.97	10903.16
0.16429	0.82654	310.9916	255.943	-1.18379	0.35639	0.84474	239.9261	202.5465
0.05978	1.12538	11891.93	13437.34	-1.36704	0.00009	0.73151	13557.88	9855.869
0.13653	1.1464	330.7217	379.402	1.2524	0.07114	1.2524	369.3407	459.7292
0.31554	1.04885	2033.936	2131.334	1.37407	2.11E-07	1.37407	2293.513	3151.221
0.82713	0.97922	1303.363	1274.626	1.34661	3.96E-06	1.34661	1181.168	1591.367
0.96255	1.00328	1160.88	1165.227	2.16822	4.30E-24	2.16822	1007.478	2188.323
0.49239	0.95758	1159.667	1114.255	-1.15366	0.07683	0.86681	1045.317	902.2918
0.00515	0.78099	564.6858	439.7097	-1.15455	0.30292	0.86614	500.8245	431.3248
0.09975	0.75565	1031.845	766.2824	1.22296	0.10243	1.22296	794.1003	979.1224
0.30446	0.92484	644.9089	595.5151	1.03115	0.74626	1.03115	582.9376	603.2052
0.47484	1.03107	2669.691	2752.724	-1.32061	1.72E-06	0.75723	2771.953	2102.825
0.36921	1.0717	677.5203	725.2271	1.01552	0.77533	1.01552	1433.995	1457.863
6.45E-08	0.4869	527.116	254.1122	1.22761	0.11006	1.22761	250.541	307.7698
0.49156	0.93943	1540.38	1447.646	1.28453	7.51E-08	1.28453	1401.933	1800.885
0.93992	0.92374	32.48465	31.15304	1.10278	0.92009	1.10278	30.40673	41.02559
0.99094	0.99664	109.3722	108.9753	1.10281	0.78043	1.10281	99.27628	109.5555
0.3863	1.04823	728.9029	764.0398	-1.04084	0.61565	0.96076	733.7914	706.4288
0.76721	0.9606	303.572	293.1386	1.01771	0.89074	1.01771	270.8315	275.8456
0.97732	1.00349	1756.247	1759.986	-1.70505	2.52E-08	0.58649	1344.867	789.1947
0.16982	1.09722	801.6726	879.0624	1.07736	0.18888	1.07736	1194.081	1284.6

0.70927	1.02816	629.803	645.8583	-1.05109	0.57876	0.95139	603.6209	574.867
0.22391	1.11173	1157.669	1291.468	1.64544	0.00014	1.64544	1117.245	1847.054
0.34399	0.87047	1804.178	1566.929	-1.49209	5.10E-12	0.6702	1524.15	1020.688
0.97416	0.99634	840.5559	843.5923	-1.08238	0.26792	0.92389	839.8289	774.9916
0.88055	0.86949	37.92218	32.92778	-1.16381	0.87489	0.85925	37.08331	34.28729
6.35E-06	0.76083	11622.34	8847.384	-1.49619	2.67E-19	0.66836	10176.75	6802.076
0.00684	0.5661	467.1124	256.3261	-1.19798	0.26979	0.83474	355.2205	299.8536
0.62296	0.94831	462.7014	441.6042	-1.18808	0.15937	0.84169	387.3777	326.4183
0.00066	1.28395	4857.85	6265.34	-1.86526	5.80E-11	0.53612	5399.957	2870.359
7.49E-11	0.69147	1776.27	1227.977	-1.36185	1.25E-10	0.7343	1675.967	1230.663
2.54E-08	0.72229	2793.669	2013.255	-1.23032	2.58E-06	0.81279	2337.158	1899.665
0.62695	1.05333	3064.624	3260.683	-1.64845	4.08E-09	0.60663	3483.81	2096.006
0.01314	0.89373	1818.52	1625.344	1.22527	0.04795	1.22527	1287.309	1582.605
2.71E-10	1.36524	9055.134	12379.5	1.07837	0.09743	1.07837	10065.34	10850.11
0.75501	1.01837	2052.197	2089.722	-1.51137	2.55E-17	0.66165	2267.324	1499.396
0.37884	0.93626	659.2261	618.8092	-1.10487	0.43654	0.90509	575.2123	516.2721
0.49044	0.91423	832.0709	769.4638	-2.32286	2.05E-09	0.4305	582.6762	248.994
0.78413	1.03705	206.0825	213.7194	-1.13601	0.56817	0.88028	215.0046	189.2304
0.69785	0.98063	1283.721	1258.495	-1.45847	5.09E-11	0.68565	1193.044	817.6024
0.96029	1.00677	1078.024	1094.865	-1.16437	0.1147	0.85883	1869.101	1594.649
0.04359	1.16597	1472.368	1708.092	1.72769	2.13E-34	1.72769	2316.177	4001.525
0.00082	0.80811	12294.63	9923.494	-1.10563	0.17554	0.90446	11517.39	10353.46
0.01084	1.28449	380.4564	486.8193	1.50321	0.00004	1.50321	455.075	681.7785
0.16748	0.64805	115.8475	75.26819	17.79787	0	17.79787	80.48898	1423.873
0.89555	1.00924	1252.232	1260.004	-1.08284	0.18327	0.9235	1105.066	1021.397
0.96728	0.94904	23.7408	24.62905	-1.17085	0.87139	0.85408	52.2999	43.24685
0.74611	1.02554	2572.244	2640.981	-1.34363	2.05E-11	0.74425	2408.115	1792.196
0.01829	0.78612	4100.751	3212.12	1.16456	0.22757	1.16456	3662.396	4269.288
0.92562	0.9918	485.5431	482.4061	-1.35251	0.00414	0.73936	640.3685	475.364
0.78998	0.97861	416.9648	408.1007	-1.0919	0.47089	0.91584	407.2386	373.5626
0.82211	1.0097	4085.771	4127.805	-1.19809	0.01244	0.83466	4297.167	3557.272
0.90621	1.02169	146.6195	149.8098	1.18036	0.29018	1.18036	267.7112	318.0007
0.72837	1.05316	400.9082	424.9597	-1.0038	0.95074	0.99621	1029.384	1025.358
0.87327	1.03908	150.5521	154.9865	-1.02141	0.90108	0.97904	242.4161	237.1285
0.49304	1.05699	623.8453	661.6573	1.07799	0.30605	1.07799	631.476	681.5431
0.0001	0.80662	5358.822	4327.052	1.29644	1.14E-09	1.29644	4775.04	6189.948
0.59732	0.87568	560.6334	511.1916	-3.86572	8.96E-27	0.25868	712.1455	183.4953
0.76905	1.06371	191.5976	207.1693	-1.75095	0.03901	0.57112	181.8285	103.9599
0.99872	0.99919	59.20874	58.63157	1.19137	0.7785	1.19137	53.21241	62.6264
0.90193	0.89623	51.67664	43.36303	-1.11969	0.77919	0.89311	93.06715	83.16066
0.48209	1.04931	1056.25	1104.587	1.04782	0.38117	1.04782	1165.62	1222.255
0.43186	0.93223	4763.665	4422.439	-1.53828	2.25E-24	0.65008	5084.346	3305.232
0.81188	1.01635	873.8104	885.8619	-1.03786	0.66695	0.96352	963.4838	931.3969
0.16975	0.93075	1075.463	1001.269	-1.20033	0.0013	0.8331	1170.021	975.5772
0.50193	1.0481	5110.076	5424.811	-1.10293	0.16653	0.90667	8358.526	7544.255
7.74E-10	0.72478	7479.759	5418.521	1.03365	0.55735	1.03365	6216.97	6425.755
0.81643	1.03271	311.0878	323.6949	-1.24305	0.19079	0.80447	271.9346	217.6982
0.25443	0.92219	1996.558	1845.355	1.49044	3.80E-09	1.49044	1819.534	2718.231
0.02934	0.81579	2051.052	1679.116	-1.24317	0.00043	0.80439	1927.594	1547.947
0.76003	1.04259	319.6258	330.6349	1.0005	0.99707	1.0005	311.4982	311.5629
0.90032	1.01396	393.0265	396.7023	-1.05777	0.66602	0.94538	419.8123	399.1147
1	1	18.34391	24.74268	1	1	1	17.80423	32.30434

0.93769	0.97876	142.9761	142.0233	-1.21285	0.43074	0.8245	154.7761	127.2041
0.22693	1.08103	3258.797	3538.933	1.01628	0.83448	1.01628	3342.269	3413.237
8.40E-19	0.59542	19225.9	11443.45	-1.7943	3.27E-40	0.55732	16656.88	9283.496
0.41239	1.0548	3503.977	3717.258	-1.00095	0.98892	0.99905	3655.806	3661.374
0.74203	1.05786	2762.921	2912.159	-1.49111	5.34E-06	0.67064	3159.052	2107.978
0.36542	1.0706	881.7109	941.085	1.05587	0.35443	1.05587	853.7664	901.8629
0.43462	1.05077	2319.814	2452.404	-1.27046	0.00375	0.78712	2608.725	2046.667
0.77889	0.9404	262.0112	253.5853	-3.27174	1.51E-07	0.30565	284.5208	87.2282
0.00649	0.82648	801.4622	662.0295	1.30911	0.00126	1.30911	926.8701	1214.5
0.82042	0.9681	575.2042	548.7129	2.58608	2.37E-25	2.58608	555.9506	1443.46
0.66413	1.05738	285.1334	303.0212	-1.2829	0.19985	0.77948	241.6624	187.7096
0.00232	0.64078	5421.511	3413.833	-1.19365	0.20704	0.83777	3993.63	3334.628
0.02338	0.87285	1056.87	924.198	-1.11841	0.12763	0.89413	996.5687	888.7091
0.23077	0.94726	3822.125	3621.503	1.52226	9.39E-12	1.52226	3609.726	5492.16
0.84421	0.96605	286.3716	272.2507	7.47552	0	7.47552	268.4795	2024.452
0.58421	1.06107	562.1934	593.297	-1.16111	0.03582	0.86125	1005.628	866.0869
0.00002	0.81537	2245.944	1831.293	1.30346	0.00001	1.30346	1723.006	2241.792
0.00782	0.87803	2034.657	1785.543	-1.07489	0.15418	0.93033	1726.601	1604.812
0.00001	0.54967	3478.044	1866.434	1.2032	0.10924	1.2032	2657.358	3197.013
0.79714	1.04327	198.971	208.039	-1.099	0.73441	0.90992	183.0097	170.3323
8.85E-06	0.77946	6124.041	4771.556	1.24396	0.00005	1.24396	5033.969	6260.988
0.3944	1.04484	883.8248	923.4843	1.26901	0.00634	1.26901	887.2046	1123.526
0.30961	0.85149	2934.662	2502.15	-1.01979	0.88801	0.98059	2382.286	2349.052
0.44347	1.07125	559.1631	596.8335	-1.07967	0.40568	0.92621	522.7043	484.9246
0.53855	0.94787	581.9147	550.2935	1.22672	0.00559	1.22672	800.5886	979.8878
0.04667	1.16054	25979.92	30380.03	1.27552	0.0003	1.27552	27722.66	35351.91
0.91688	1.01138	25067.19	25450.08	1.3408	0.00152	1.3408	24219.87	32552.94
0.01023	1.12608	4630.601	5204.994	-1.1779	0.00068	0.84897	6817.348	5798.215
0.08839	1.11765	918.2798	1026.784	1.0216	0.65935	1.0216	1883.188	1922.69
0.02431	1.10153	2932.23	3228.909	1.02242	0.6057	1.02242	3247.155	3320.617
0.48452	0.87286	3634.026	3133.545	-2.42507	0	0.41236	3056.919	1260.724
0.84274	1.01307	2867.965	2917.777	1.29595	6.57E-06	1.29595	3636.034	4729.005
0.05463	0.68023	276.6872	184.9482	1.72432	0.00049	1.72432	200.9163	346.4363
0.5872	0.95259	1267.474	1211.599	-1.169	0.01438	0.85543	1202.009	1027.742
0.40192	0.778	756.963	598.3266	-4.11617	3.85E-14	0.24294	526.9594	129.4845
0.11862	1.15273	560.2911	643.2678	1.37269	0.0001	1.37269	532.3079	732.1223
0.67193	1.03943	596.8263	617.376	-1.06382	0.41885	0.94001	514.1722	483.3444
0.37489	0.87101	1076.089	936.4828	1.70517	2.49E-09	1.70517	1105.833	1888.453
0.60673	0.95158	1308.72	1242.441	1.01707	0.72791	1.01707	1296.352	1318.542
0.65461	1.0776	285.3287	305.1751	1.2524	0.11244	1.2524	278.5827	350.8026
0.69808	0.96781	1140.525	1099.587	-1.02886	0.74135	0.97195	895.5836	867.5075
0.8985	0.99411	1409.663	1401.476	-1.12637	0.04825	0.88781	1238.838	1101.304
0.60035	0.95409	420.3094	400.571	-1.05773	0.68143	0.94542	348.4487	331.4709
0.71419	1.01741	1343.07	1367.034	-1.10122	0.10533	0.90809	1433.4	1299.296
0.66447	1.02923	2025.422	2069.969	1.0175	0.75128	1.0175	2012.888	2053.339
0.00443	0.81187	650.9503	529.4905	-1.21207	0.16648	0.82503	622.3363	517.3887
0.15029	1.17291	1578.875	1858.148	-1.06034	0.57117	0.94309	2008.433	1882.024
0.46353	1.09244	350.1325	379.8593	1.57951	0.00009	1.57951	288.0659	453.6341
0.62233	1.02426	5352.501	5474.551	1.21988	0.00068	1.21988	5495.522	6695.031
0.62471	0.94602	427.7678	403.7707	1.70533	5.42E-11	1.70533	372.8969	636.4324
0.79597	1.01164	4372.461	4427.916	-1.10471	0.02577	0.90521	4438.906	4018.7
0.12224	1.08704	2761.821	3011.286	1.01016	0.86655	1.01016	3058.638	3090.921

0.00004	0.82794	24187.27	20029.76	-1.11849	0.34644	0.89407	17625.55	15577.94
0.75381	1.02023	6878.747	7019.748	1.25348	0.00029	1.25348	6660.916	8331.337
0.48196	1.03701	5167.903	5363.702	1.11259	0.06103	1.11259	5229.894	5820.935
0.63815	0.91331	453.8605	403.739	1.24344	0.02008	1.24344	366.6148	455.364
2.51E-09	0.71645	6783.785	4854.07	1.01129	0.84061	1.01129	5723.186	5781.69
0.98597	0.99838	1025.36	1029.093	-1.06211	0.27391	0.94152	1067.634	1005.661
0.72268	0.94695	3746.697	3621.45	1.90575	2.42E-16	1.90575	3271.156	6247.444
0.42758	1.0582	779.6979	822.6381	1.12433	0.16375	1.12433	776.9431	870.8727
0.00026	0.68754	4939.757	3387.118	-1.1403	0.04222	0.87696	4608.881	4026.365
0.79591	1.03196	309.3881	320.181	1.13003	0.33082	1.13003	295.0445	332.5418
0.29026	1.15337	238.9033	276.667	-1.16357	0.31352	0.85943	267.4395	229.8532
3.60E-10	2.04579	77.19041	160.235	1.5063	0.00029	1.5063	63.05589	89.57362
0.60144	0.93193	240.0577	224.231	-1.18115	0.53147	0.84664	183.1635	152.8857
0.24488	0.89726	1672.783	1490.916	1.50718	0.00022	1.50718	1436.105	2178.556
0.77612	0.97458	1043.946	1024.184	-1.16142	0.01172	0.86101	1056.379	908.8669
0.11977	0.74447	317.2502	231.6055	-1.35158	0.18361	0.73988	261.2593	196.0027
0.00634	0.78301	4734.355	3704.816	-1.27671	0.00221	0.78326	4153.214	3242.307
5.39E-18	0.66921	3339.693	2235.723	-1.27353	7.34E-07	0.78522	4485.234	3527.815
0.50154	0.8437	269.3725	216.8561	1.50687	0.02383	1.50687	174.0478	262.268
0.37716	1.08585	2726.86	2949.516	-1.24985	0.00001	0.8001	2980.688	2385.284
0.12118	0.70699	4483.529	3204.752	-5.80225	0	0.17235	1817.133	311.4164
0.57539	1.02636	1795.188	1843.097	1.01388	0.82706	1.01388	2008.3	2035.445
0.00218	0.79354	816.9517	649.9836	1.29451	0.00975	1.29451	721.1893	930.2227
0.23515	0.93446	1091.431	1019.344	-1.21648	0.00978	0.82204	1022.676	838.0949
0.56923	0.93459	914.4629	846.0227	1.02625	0.77704	1.02625	891.4729	918.4048
0.32271	1.15232	267.1139	305.2976	1.20066	0.00859	1.20066	550.2383	660.9033
0.26511	0.91997	1726.224	1583.018	1.47905	1.15E-16	1.47905	1872.193	2768.003
0.27931	0.9379	735.7462	689.8886	-1.18673	0.02519	0.84266	557.3401	469.8412
0.7058	1.03377	380.6544	393.7665	-1.20374	0.1607	0.83074	320.3972	266.8845
0.68618	1.02176	1048.189	1071.679	-1.00255	0.96333	0.99746	1142.654	1140.74
0.06153	1.21174	1139.063	1383.018	2.06495	1.03E-35	2.06495	994.8101	2054.597
0.15853	1.10966	831.2169	920.6127	-1.08403	0.2094	0.92248	823.9326	760.8089
0.32552	1.09089	878.9663	954.8809	1.11353	0.09931	1.11353	896.4334	996.7153
0.00019	0.79655	3872.648	3086.712	1.517	1.43E-07	1.517	3239.082	4910.189
0.00479	0.8426	5655.304	4769.537	1.5396	9.12E-17	1.5396	4814.138	7414.249
0.62553	0.92499	352.5704	321.0386	1.20329	0.15475	1.20329	311.7804	376.9193
0.88061	1.01494	328.7046	333.6806	-1.0961	0.52981	0.91232	308.1801	280.4525
0.95891	0.98927	186.8649	183.0642	1.76891	0.00246	1.76891	149.5202	265.0484
0.75476	1.02245	950.6067	970.6897	1.04307	0.65407	1.04307	831.894	864.4961
0.12614	0.7851	1088.685	841.8562	-1.5002	0.00006	0.66658	851.9426	569.9218
0.04854	0.88689	26202.56	23185.16	-1.05963	0.60851	0.94373	28655.12	27130.56
0.12358	0.86393	2295.37	1970.558	1.3642	0.00004	1.3642	2090.31	2847.81
0.4932	0.93265	1020.494	950.5936	-1.11172	0.12615	0.8995	874.815	785.9973
0.48587	0.96137	3442.501	3318.615	1.22692	6.90E-06	1.22692	4537.385	5565.281
0.41479	0.9408	963.2683	902.6278	1.15782	0.00506	1.15782	950.674	1101
0.00003	0.77598	2123.462	1645.402	-1.18337	0.00023	0.84504	1800.438	1521.729
0.37387	0.83916	278.0949	239.7555	1.46	0.00469	1.46	237.2229	347.243
0.01719	0.8208	3494.925	2845.134	-1.13995	0.09399	0.87723	3050.011	2686.766
1	1	18.42579	24.51439	1	1	1	18.5253	31.26265
0.00523	0.81237	679.822	551.7716	-1.51639	0.01462	0.65946	620.8451	403.9144
0.92325	1.03195	99.01601	101.9968	1.0699	0.89962	1.0699	87.91853	91.92081
0.561	0.96137	10016.43	9648.738	-1.33813	2.40E-06	0.74731	9827.287	7351.828

0.9714	1.00248	801.0894	805.1739	1.00553	0.95554	1.00553	624.3121	630.2629
0.12531	0.79958	487.0566	383.5062	1.03827	0.77004	1.03827	431.9728	451.2778
0.05245	0.7998	1179.679	939.9909	3.00564	1.43E-32	3.00564	947.6183	2866.111
0.0016	1.14312	3574.354	4085.965	1.01177	0.82334	1.01177	3593.827	3631.718
0.00026	0.72003	6457.065	4664.462	-1.383	0.00002	0.72307	4524.166	3260.557
0.95867	1.00391	679.1653	683.7755	1.13189	0.00511	1.13189	1804.264	2042.078
0.95089	1.0085	957.5762	974.3807	-1.27254	0.00535	0.78583	837.1309	655.8583
0.85697	1.01975	348.756	354.819	1.22527	0.03176	1.22527	360.413	442.0066
0.33918	1.05589	934.9923	986.9124	1.56105	2.82E-17	1.56105	1037.686	1619.937
0.23733	1.06818	3429.844	3674.33	-1.05797	0.38739	0.94521	3817.062	3605.25
0.10628	0.89208	1072.516	955.157	-1.36449	0.00001	0.73287	884.1198	648.7733
0.08103	1.07478	3800.161	4084.114	-1.23924	0.00056	0.80694	3508.393	2827.963
0.39638	1.05853	1107.03	1168.552	1.03462	0.50111	1.03462	1248.628	1291.745
0.8814	0.9829	291.6411	286.9525	-1.00286	0.98563	0.99715	259.9251	257.9005
0.35724	0.9349	629.4863	589.6553	1.19237	0.05056	1.19237	637.1902	757.4459
0.22507	1.08696	8600.867	9306.309	3.52343	2.52E-29	3.52343	9076.937	32298.08
0.65861	0.97149	3216.542	3114.164	1.12498	0.00764	1.12498	3178.445	3576.631
0.02357	1.21383	735.2297	894.1909	1.44688	0.00554	1.44688	854.6552	1238.93
0.87964	1.014	412.1087	418.3956	-1.09366	0.56576	0.91436	356.6935	322.9172
0.44443	0.93828	1053.335	995.7542	-1.07748	0.44605	0.92809	947.4883	874.8093
0.9986	0.99984	966.0529	959.5256	1.05639	0.37456	1.05639	950.2446	1004.453
0.32047	1.08153	931.9354	1005.601	1.47723	3.02E-08	1.47723	908.255	1339.376
0.03924	0.74233	874.3385	640.9413	1.20214	0.02065	1.20214	973.2499	1172.839
0.57561	1.11335	178.6108	200.559	-1.1236	0.21749	0.88999	385.3151	343.0491
0.40246	0.94468	686.0831	648.4788	-1.57569	0.0005	0.63464	741.3099	465.9576
0.9849	1.00826	77.54689	76.99188	-1.3249	0.63806	0.75477	72.98788	54.91228
0.01041	0.84176	686.2066	577.1463	1.72567	2.22E-10	1.72567	555.7056	956.7288
0.50836	1.03276	3325.4	3430.037	-1.04537	0.30257	0.9566	3562.224	3406.252
0.93002	0.97701	264.9362	256.7108	2.44794	9.41E-06	2.44794	184.8182	462.3227
0.25344	0.87699	3670.636	3232.964	-1.36195	0.00043	0.73424	3246.027	2383.027
0.52517	1.03155	1076.893	1110.55	-1.1543	0.01659	0.86633	1076.676	931.7274
0.69456	0.93428	327.7416	312.4924	-1.25868	0.07267	0.79449	453.3268	357.6057
0.66875	0.95912	2447.834	2353.138	2.28783	0	2.28783	2084.52	4775.909
0.94875	1.00928	464.2994	463.1826	1.14271	0.22081	1.14271	466.694	535.4155
0.54126	0.89809	319.5975	282.6821	3.48973	5.04E-28	3.48973	279.3806	979.413
0.38717	1.05189	1596.456	1675.005	1.04109	0.46289	1.04109	1700.309	1767.361
0.00171	0.65682	1365.091	885.6841	1.83702	5.63E-13	1.83702	1003.068	1846.68
0.44248	0.89717	10971.19	9889.922	1.07021	0.58899	1.07021	8605.288	9262.002
0.66261	1.47805	37.09048	58.76154	-1.10653	0.89642	0.90372	60.55548	53.61034
0.12072	0.87275	580.6148	508.5905	1.16752	0.18103	1.16752	535.5762	621.6169
0.0011	0.84121	6739.352	5665.943	1.62697	2.41E-15	1.62697	6855.601	11191.61
0.01223	0.79839	1468.037	1162.991	1.03167	0.52115	1.03167	1244.448	1284.158
0.49445	1.10127	249.928	273.6987	-1.24436	0.06589	0.80363	566.8069	458.2316
0.92735	0.91074	39.27047	35.49924	1.19292	0.86621	1.19292	27.79174	42.44991
0.23431	1.16969	272.3481	316.6912	1.01939	0.92397	1.01939	235.3451	236.7185
0.37453	0.93228	880.4343	818.288	2.23608	0	2.23608	898.752	2009.532
1.52E-07	1.26816	1606.074	2036.57	-2.26407	6.16E-22	0.44168	1277.557	562.5772
0.52301	0.89555	227.2708	205.1986	-1.24306	0.20206	0.80447	298.8451	242.1339
0.01613	1.29832	468.926	604.6401	2.91359	2.05E-37	2.91359	409.8223	1192.998
0.22192	1.11203	616.6162	682.9122	1.02076	0.77106	1.02076	628.0706	641.7183
0.42742	1.04483	2249.205	2358.568	-1.11939	0.07979	0.89335	2529.129	2263.148
0.84059	1.13	66.794	72.40065	-1.15196	0.70846	0.86809	96.32542	83.48416

0.69763	0.95422	605.3052	582.8613	-1.17607	0.14163	0.85029	673.325	569.2739
0.73751	0.94718	263.648	252.4454	-1.1004	0.44395	0.90876	342.3949	311.9988
0.88302	1.03905	116.4594	120.5255	-1.07333	0.85988	0.93168	125.7089	115.1744
0.85558	0.97544	886.0447	878.2664	-1.11001	0.17839	0.90089	1900.266	1724.957
0.31941	0.59461	74.81383	44.64606	2.34627	0.10941	2.34627	53.34369	121.1749
0.79281	1.02771	433.1854	446.7067	-1.02447	0.84549	0.97611	364.3675	357.1989
0.32397	1.05984	1689.77	1797.238	-1.02283	0.7124	0.97768	1835.622	1794.401
0.00229	0.4855	4088.231	1848.359	1.08842	0.65969	1.08842	2713.844	2999.13
0.00356	0.79361	1424.989	1128.277	-1.22324	0.01547	0.8175	1351.329	1104.895
0.1379	1.10095	1644.682	1805.202	1.00311	0.95358	1.00311	1961.636	1965.637
0.00157	0.80828	4118.29	3331.643	1.18542	0.00576	1.18542	3558.105	4213.476
0.18255	1.10127	2022.626	2238.261	-1.19694	0.04843	0.83546	2318.956	1927.053
0.88328	0.9695	176.8901	169.799	1.17403	0.47926	1.17403	149.5753	175.038
0.42567	1.16754	161.9905	187.9069	1.24702	0.28333	1.24702	167.9125	209.6189
0.74949	0.95636	337.9589	320.283	1.20327	0.0631	1.20327	332.8142	400.8489
0.00056	0.83195	3604.6	2997.139	-1.05064	0.45756	0.9518	3216.199	3065.301
0.91189	0.99426	2639.167	2618.066	3.58851	0	3.58851	2386.649	8565.022
0.88765	1.01206	483.3597	487.9435	-1.04116	0.68888	0.96046	476.0783	458.3278
0.58278	0.96019	2893.415	2783.132	1.52133	4.51E-18	1.52133	2530.295	3849.119
0.57477	1.07413	351.4815	374.2978	1.18738	0.10602	1.18738	347.329	412.7015
0.12792	0.83409	7305.848	6094.229	1.01246	0.90161	1.01246	6559.044	6700.028
0.45738	0.93937	2394.636	2260.557	1.45027	9.52E-08	1.45027	2142.408	3106.714
0.66588	1.05213	417.4467	436.002	1.86754	1.29E-15	1.86754	457.219	852.766
0.55899	1.03489	1472.586	1520.971	1.05289	0.38191	1.05289	1532.645	1615.593
1.16E-12	0.44167	2248.991	994.816	-2.45236	0	0.40777	2123.843	866.1466
0.24711	0.87219	3148.165	2745.885	1.11681	0.11445	1.11681	2508.518	2805.015
0.64479	0.96271	614.0128	589.8159	-1.13795	0.08201	0.87878	545.7649	479.7704
0.87169	1.01248	462.0933	467.8504	1.03568	0.70904	1.03568	418.8121	433.7463
0.93846	1.01071	274.8987	277.4424	1.08431	0.5434	1.08431	418.189	456.1577
0.46561	1.04998	8692.449	9137.865	-1.16082	0.0445	0.86146	10117.01	8739.176
0.51815	1.03222	1285.58	1327.91	-1.00098	0.98465	0.99902	1227.329	1225.733
0.83424	1.11852	59.65168	66.28902	-1.00319	0.99171	0.99682	101.1593	100.8455
0.84051	1.03066	250.7331	260.2863	1.05496	0.7713	1.05496	202.0992	213.8405
0.44893	0.7841	191.2799	158.795	-1.6545	0.25362	0.60441	131.8359	78.73184
0.0441	1.26055	6344.57	7895.167	-1.80058	1.52E-08	0.55538	11972.58	6571.498
1	1	18.21063	23.34558	1	1	1	21.48318	32.05759
0.03276	1.11736	5541.973	6186.113	1.03533	0.52745	1.03533	6233.032	6452.026
0.02878	0.76962	1403.359	1071.583	-1.0039	0.96288	0.99611	1091.689	1090.734
0.0504	0.76942	917.5659	696.3243	-1.12405	0.24772	0.88964	852.0629	760.8859
4.09E-15	0.63535	6349.162	4031.256	-1.34399	1.64E-10	0.74406	5232.034	3895.318
0.36287	0.90775	320.189	290.4798	1.05684	0.67249	1.05684	327.9687	345.1472
0.73531	0.89061	88.46156	79.10883	-1.10091	0.75184	0.90834	143.997	129.0915
0.00165	0.66979	5095.438	3385.246	1.32914	0.01185	1.32914	4283.287	5720.241
0.71258	1.04309	3820.376	3984.986	-1.17473	0.00068	0.85126	6313.365	5370.291
0.44533	0.95602	1407.209	1347.094	1.06475	0.25281	1.06475	1128.396	1200.701
0.91778	1.02391	187.5006	190.6377	-1.06626	0.89431	0.93786	124.4218	110.1409
0.00006	0.6392	2739.33	1735.089	-1.17157	0.11831	0.85355	2027.312	1733.611
1.91E-07	0.6908	1003.939	691.6647	1.03309	0.79286	1.03309	652.4283	678.9502
0.61631	0.95724	3852.093	3700.995	1.9751	1.29E-20	1.9751	3835.999	7575.522
0.84279	1.02052	5846.884	5955.153	1.13117	0.21242	1.13117	4904.237	5478.385
0.92504	0.98429	377.596	379.8229	-1.22851	0.20472	0.814	261.0969	212.2322
0.21773	1.11129	2018.136	2223.47	-1.13048	0.02899	0.88458	3825.99	3387.283

0.20714	1.12177	874.0249	976.0108	-1.11377	0.1441	0.89785	973.9767	873.5382
0.82251	1.03816	182.3857	189.643	-1.25177	0.32896	0.79887	183.824	146.8109
0.0156	1.167	995.2147	1158.927	-1.07493	0.16508	0.93029	1288.657	1199.455
0.00006	0.81067	1289.908	1045.919	1.31386	3.20E-07	1.31386	1074.448	1410.834
0.74533	0.9717	1123.472	1091.478	1.37973	0.00027	1.37973	1232.12	1701.522
0.18606	1.1638	546.38	641.5061	1.25466	0.11215	1.25466	524.0487	651.686
0.00886	1.22258	2793.245	3429.865	1.03906	0.56519	1.03906	4145.436	4302.206
0.64084	1.03141	2546.823	2629.26	1.03209	0.61077	1.03209	2465.819	2549.9
0.28671	0.93943	2611.192	2443.667	1.08206	0.44511	1.08206	3413.363	3745.07
0.10179	1.13351	1164.851	1317.513	1.06423	0.26548	1.06423	1998.867	2125.699
0.47634	0.94652	1074.881	1021.672	1.04071	0.6419	1.04071	1056.373	1097.695
0.47526	0.94492	580.1642	549.6931	-1.15849	0.12971	0.86319	576.854	496.6345
0.22235	0.88143	1114.995	984.627	1.68888	8.47E-07	1.68888	1030.623	1740.547
0.08135	0.79601	2511.153	1995.456	1.00355	0.97739	1.00355	2155.506	2176.787
0.52357	1.06213	975.392	1028.856	-1.00282	0.96702	0.99718	928.5651	926.8122
0.57431	1.05649	673.9285	707.6642	1.0617	0.31906	1.0617	748.1837	793.9691
0.74754	0.94405	272.8961	254.0976	1.42363	0.00621	1.42363	256.8132	366.6646
0.08002	1.09216	1197.324	1307.717	-1.27201	0.00152	0.78616	1685.043	1317.356
0.26768	0.94662	1914.433	1814.8	-1.03714	0.53518	0.96419	1948.861	1878.464
0.44248	1.04582	1568.314	1642.375	1.05317	0.29389	1.05317	1549.887	1631.815
0.00167	0.70858	6260.334	4444.518	-1.53633	4.13E-06	0.6509	6344.488	4093.033
0.01387	0.66959	614.8732	403.6277	-1.05246	0.67844	0.95016	487.812	465.3265
0.1393	0.81932	688.9385	557.4775	1.9373	3.75E-13	1.9373	558.8295	1087.248
0.0586	0.87998	3280.832	2883.694	-1.15028	0.09473	0.86935	2880.357	2497.349
0.04272	1.10438	2856.438	3151.386	1.07816	0.14698	1.07816	3234.578	3482.327
0.82976	1.03916	268.1422	281.7378	-1.59885	0.20594	0.62545	141.2402	87.65017
0.68641	1.02141	2288.954	2331.912	-1.01172	0.79204	0.98842	2220.727	2194.857
0.38513	1.07454	859.0503	926.307	1.13865	0.0529	1.13865	1067.719	1214.504
0.68628	1.05568	240.5316	253.7623	-1.03914	0.79557	0.96233	263.9407	253.3174
0.79617	0.94088	199.0147	191.9425	-1.40738	0.23399	0.71054	156.9695	112.4585
0.90473	0.98695	397.0289	393.9925	1.17279	0.11933	1.17279	331.4739	388.7451
0.31465	1.06963	1565.607	1668.825	1.06185	0.2913	1.06185	1629.611	1731.985
0.26192	1.08479	1275.844	1390.215	-1.09563	0.13669	0.91272	1320.707	1205.251
0.58058	1.04904	2956.481	3105.585	2.27337	0	2.27337	2612.59	5938.102
0.06326	0.73568	3659.291	2716.572	1.49489	1.47E-16	1.49489	2779.718	4153.109
0.66353	1.98571	17.78511	35.06669	-1.10857	0.92065	0.90206	39.8088	45.74345
0.06382	0.90274	1199.114	1082.335	1.014	0.8112	1.014	1407.598	1427.501
0.15675	0.8206	707.1534	572.624	1.4509	0.00003	1.4509	528.5146	768.4985
0.00001	0.65223	3224.414	2116.239	-1.76197	2.01E-19	0.56755	2812.918	1599.378
0.20827	1.23132	183.0053	225.6081	1.0632	0.48008	1.0632	497.5228	528.7739
0.1666	0.93019	16370.91	15220.38	-1.04758	0.33428	0.95458	16102.49	15387.15
0.0805	0.81839	5713.796	4666.921	1.46722	6.97E-06	1.46722	5197.373	7586.196
0.74295	0.95754	423.6407	410.7105	-1.1473	0.05314	0.87161	746.2784	651.1783
0.75102	0.80743	68.80785	56.96262	1.11203	0.87187	1.11203	56.61153	63.41145
0.52526	1.04054	2131.117	2220.103	1.02039	0.8225	1.02039	2250.333	2291.435
0.8979	0.98274	263.2601	257.6019	-1.14335	0.41866	0.87462	246.9408	216.8082
0.78621	1.27014	34.72306	44.49725	-1.12969	0.91613	0.8852	28.67429	32.82205
0.00445	0.83072	3381.965	2816.448	1.62955	9.12E-25	1.62955	2920.072	4760.08
0.00066	1.22348	1887.259	2310.302	1.25491	0.00002	1.25491	1784.425	2241.488
0.05113	1.10052	4970.363	5477.45	-1.05491	0.45128	0.94795	6041.143	5723.675
0.45731	0.96984	4230.116	4102.338	-1.75321	1.45E-09	0.57038	3950.922	2248.388
0.95309	0.99303	2015.279	2005.75	1.69997	1.60E-11	1.69997	1776.193	3029.147

0.95682	0.98139	132.4205	125.1134	1.20838	0.48376	1.20838	161.4936	198.7717
0.58476	1.03366	2218.977	2303.247	1.01583	0.7966	1.01583	2313.573	2350.441
0.86579	1.01892	630.1732	637.0773	-1.08936	0.43511	0.91797	633.4857	584.2805
0.00285	0.73886	3962.228	2922.259	1.13576	0.10325	1.13576	3330.934	3778.134
0.35124	0.96135	2308.474	2219.16	-1.02527	0.72979	0.97536	2065.016	1999.98
0.72249	0.97908	7235.104	7106.935	1.45691	8.99E-10	1.45691	6869.858	9998.516
0.21626	0.84967	6340.05	5370.423	1.04408	0.67707	1.04408	5426.2	5652.517
0.84326	1.06846	129.4047	144.8144	1.14996	0.42916	1.14996	176.1216	202.5278
0.62052	1.02696	1541.56	1585.748	-1.13857	0.01488	0.8783	1538.615	1352.665
0.05601	1.13249	1059.225	1202.012	1.3446	6.72E-09	1.3446	1192.011	1602.583
0.56064	1.03508	1540.664	1590.925	1.11274	0.05059	1.11274	1537.029	1708.362
0.6707	1.03698	1075.017	1123.709	1.16346	0.05037	1.16346	1067.399	1239.442
0.71525	1.04896	377.6707	392.3242	-1.00763	0.91069	0.99242	686.0964	681.4755
0.58916	1.0658	241.6534	257.789	-1.14221	0.45288	0.87549	225.115	196.7907
0.61047	1.03111	8986.082	9290.764	-1.1559	0.03289	0.86513	9871.133	8502.232
0.44862	0.95672	1069.823	1023.304	1.06885	0.49337	1.06885	1434.173	1530.647
0.54386	1.04543	609.9305	636.212	1.24667	0.02136	1.24667	558.6301	694.0281
0.61382	1.04714	643.2471	677.1799	-1.34721	0.00849	0.74228	681.213	502.4961
0.5831	0.68713	83.64113	51.92224	1.26634	0.6738	1.26634	57.4649	72.79636
0.55277	0.95149	397.3544	378.1716	-1.04153	0.59928	0.96012	691.3615	662.9838
0.00004	0.75175	1435.997	1081.561	1.46467	0.00003	1.46467	1284.256	1887.771
0.80206	0.9715	687.4578	673.781	-1.12126	0.21366	0.89185	582.9161	518.4894
0.34512	0.92983	680.2839	634.2589	-1.05011	0.6112	0.95228	685.7875	650.5107
0.11149	0.73254	6057.584	4349.88	1.20133	0.26451	1.20133	4627.901	5628.346
0.0598	1.13411	662.0025	749.7321	1.09319	0.27509	1.09319	786.7791	857.6853
0.70254	0.89663	192.683	179.8126	-1.89979	0.05198	0.52637	140.7365	74.33755
0.1038	1.10873	9132.174	10149.73	-1.08254	0.30546	0.92376	10773.19	9992.602
0.06528	0.87361	1337.774	1168.812	1.09097	0.13424	1.09097	1312.991	1431.074
0.10322	0.91529	4001.777	3677.914	1.04227	0.34632	1.04227	3841.141	4004.685
0.60894	1.04228	676.3732	706.6721	-1.01973	0.79997	0.98066	1217.786	1191.369
0.95075	1.01355	128.8432	130.4583	1.11511	0.73738	1.11511	104.4262	115.8881
0.95966	0.99171	667.4049	672.6605	-1.89774	0.00039	0.52694	445.4333	238.8344
0.92119	0.97793	140.0002	137.3116	-1.19453	0.68034	0.83715	138.032	110.6169
0.31768	0.83346	2133.578	1772.471	1.26477	0.12337	1.26477	1897.362	2437.566
0.67153	0.9223	271.5445	254.7195	1.23528	0.24287	1.23528	172.374	212.6963
0.89224	1.01181	637.9606	643.0573	1.44679	1.67E-06	1.44679	611.6914	886.2264
0.58245	1.05305	515.199	540.0377	-1.00838	0.92422	0.99169	503.5789	500.2724
0.24827	0.84664	388.0272	331.4365	1.21169	0.27454	1.21169	217.1979	264.7968
0.71883	0.96482	1077.508	1047.681	-1.08266	0.14919	0.92365	995.9006	919.5917
0.16021	0.92199	1178.648	1085.977	1.10472	0.19639	1.10472	1009.028	1111.948
0.58618	1.03712	4130.707	4278.851	-1.03436	0.47408	0.96678	4563.651	4416.609
0.0031	0.83015	1187.759	987.048	-1.02279	0.81624	0.97772	1004.814	978.9119
0.01261	0.84058	5353.655	4513.931	-1.27555	0.00005	0.78398	5088.523	3998.019
0.01001	0.80669	10365.53	8394.917	-1.14167	0.01663	0.87591	9959.75	8712.805
0.07052	1.13425	4176.669	4730.196	-1.3235	0.01327	0.75558	5396.248	4032.023
0.72257	0.97252	1382.86	1341.683	1.00384	0.94853	1.00384	1279.588	1282.647
0.12444	0.93798	6500.748	6097.25	1.08034	0.10235	1.08034	5510.225	5958.625
0.02799	1.22712	25219.13	30933.41	-1.48352	0.00219	0.67407	34089.06	22685.62
1.61E-13	0.64436	8655.71	5579.238	-1.04851	0.48771	0.95374	6600.099	6290.851
0.50606	0.95792	1295.493	1246.248	1.60728	9.08E-21	1.60728	1361.586	2187.934
0.7823	0.97057	1165.588	1128.374	1.2328	0.03221	1.2328	899.9539	1114.433
0.97145	1.0029	1581.975	1582.371	1.68986	1.62E-10	1.68986	1484.154	2513.641

0.77257	0.97224	454.9251	443.6469	-1.07672	0.45971	0.92874	391.8412	363.709
0.00363	1.28444	1718.021	2218.664	1.76259	2.65E-16	1.76259	1505.794	2657.302
0.23116	1.07026	1684.355	1807.093	-1.08719	0.1807	0.9198	1319.205	1212.303
0.80462	0.96961	925.6646	906.1633	-1.29768	0.00004	0.7706	876.132	674.7371
2.36E-07	0.70324	35092.58	24738.63	-1.86829	1.33E-29	0.53525	30246.69	16194.11
0.97554	0.99863	7866.068	7860.823	1.02168	0.72342	1.02168	8103.771	8262.907
0.00127	0.77716	1593.66	1235.89	3.39183	1.38E-42	3.39183	1253.213	4270.983
0.48649	1.14644	137.1286	157.4569	1.17517	0.45686	1.17517	159.1115	186.8734
0.00918	1.15229	3019.801	3472.677	-1.17376	0.00436	0.85196	4093.688	3483.113
0.94986	1.00421	611.1485	614.1311	-1.12982	0.21901	0.8851	679.9503	599.2389
0.89004	0.97507	187.0303	182.5607	1.04497	0.86099	1.04497	166.8664	173.9116
0.76562	1.01902	705.7063	719.8156	-1.14593	0.05147	0.87265	605.1894	528.1
0.07234	1.09754	1903.969	2093.087	-1.12293	0.09888	0.89053	2003.476	1777.556
0.61252	1.02974	922.1688	950.9348	1.02894	0.74532	1.02894	922.7716	945.7341
0.49633	1.14105	219.0131	249.5646	1.10875	0.56903	1.10875	192.0306	213.0926
0.60583	0.96611	851.1731	821.9592	1.54365	0.00003	1.54365	777.6017	1199.714
0.61535	0.87951	6126.19	4917.507	-5.76104	0	0.17358	4785.239	826.2639
0.62342	0.94051	513.1373	477.512	1.22578	0.02761	1.22578	408.4722	499.9349
0.27764	0.90356	563.9481	507.3297	1.17127	0.12492	1.17127	506.373	590.6777
0.07467	0.77546	3816.965	2934.657	-1.34088	0.00273	0.74578	3122.34	2322.757
0.06892	1.15414	871.3069	1008.902	1.03972	0.78204	1.03972	928.2008	965.0684
0	2.80213	1439.548	4035.994	3.30449	3.69E-27	3.30449	1647.48	5533.833
0.28605	1.08152	2924.034	3117.095	-1.1711	0.00246	0.8539	3595.742	3073.681
0.97973	1.00305	740.8793	738.8464	1.00006	0.9996	1.00006	850.0233	854.3933
0.20514	0.90446	1720.591	1557.668	-1.21479	0.00065	0.82319	1335.12	1099.047
0.59185	1.14277	129.8356	147.5085	1.13593	0.58567	1.13593	139.2254	158.35
3.04E-07	0.5186	4114.209	2107.604	-1.40235	8.28E-06	0.71309	2728.082	1948.823
0.76942	0.95918	479.1541	465.488	-1.15569	0.09295	0.86528	909.2103	784.5162
0.90854	0.99366	801.6926	796.1683	1.2816	0.00269	1.2816	720.6397	921.148
0.0077	0.67305	2013.847	1339.692	-1.37013	0.00343	0.72986	1484.863	1086.573
0.01865	1.13278	2371.606	2690.193	1.06154	0.35005	1.06154	2818.772	2980.601
0.00004	0.78685	12959.97	10217.86	-1.08216	0.06693	0.92408	12170.29	11247.87
0.07457	0.86988	25124.21	21831.45	-1.27416	0.01314	0.78483	24124.8	18621.52
0.98745	1.00179	1495.256	1499.338	1.51339	1.71E-11	1.51339	1257.62	1907.094
0.30611	1.04736	2130.254	2229.538	-1.2347	0.00054	0.80991	2717.108	2201.513
0.20528	0.81036	500.4639	397.395	1.18337	0.05278	1.18337	423.3248	501.2468
0.40104	1.06802	612.1439	651.7896	-1.00137	0.98895	0.99864	610.0616	606.7383
0.69451	0.96539	843.205	810.8101	1.14895	0.15521	1.14895	794.2857	916.9722
0.95078	1.01455	184.1274	186.8864	-1.11142	0.63136	0.89975	200.8445	179.8563
1.09E-10	0.5815	1395.615	807.2517	1.04829	0.57514	1.04829	1069.469	1124.377
0.01306	0.89455	2739.473	2450.195	1.07531	0.11785	1.07531	2366.117	2543.373
0.98591	1.0028	271.1655	274.5024	-1.13237	0.525	0.8831	238.3881	208.945
0.48235	0.89959	1987.983	1788.133	-1.80109	8.41E-19	0.55522	1575.632	873.5641
0.91366	1.01067	483.3167	490.7852	-1.37133	0.01871	0.72922	500.9056	364.3206
0.16401	1.05844	5262.689	5570.229	-1.03786	0.42787	0.96352	6262.503	6046.423
0.07443	0.88624	2430.323	2155.436	1.30742	1.06E-08	1.30742	2143.725	2802.699
0.01415	0.79959	4386.926	3499.841	-1.20385	0.05273	0.83066	3067.764	2545.741
0.61695	0.97075	1276.949	1237.771	1.18814	0.01826	1.18814	1147.97	1367.305
0.97374	0.99727	2731.588	2746.035	-1.12907	0.1403	0.88569	2664.264	2375.097
0.7258	1.06458	261.4697	278.1148	1.01609	0.92623	1.01609	199.5796	203.1161
0.19936	1.18205	1087.969	1301.744	-1.99168	2.23E-10	0.50209	993.6818	496.2162
0.04251	1.13851	924.2347	1051.696	1.08735	0.40152	1.08735	901.2686	975.7308

0.65559	0.96861	1543.745	1496.214	-1.67239	1.85E-10	0.59795	1670.116	1001.602
0.0013	0.65543	1121.994	729.2553	-1.00507	0.96254	0.99496	903.4287	903.9703
0.26027	0.82743	10063.2	8254.242	-2.01892	2.23E-24	0.49531	7069.526	3503.36
0.90092	0.98564	644.9464	630.0387	-1.28549	0.05385	0.77791	669.8035	524.6879
0.33591	1.10443	381.6089	419.7164	1.15456	0.19405	1.15456	457.0767	530.5643
0.8707	0.96271	157.9416	151.0637	-1.58702	0.14218	0.63011	190.4197	117.1473
0.2271	0.89629	411.6932	368.346	-1.09685	0.41635	0.9117	372.7217	338.9902
0.69602	0.96107	1428.042	1371.947	1.2712	0.00885	1.2712	1366.063	1741.562
0.06246	1.16677	886.9359	1034.201	1.20791	0.01286	1.20791	819.1049	991.0519
0.8749	0.98589	2005.247	1976.026	1.46926	4.60E-08	1.46926	1941.672	2853.483
0.16023	0.85469	1910.063	1634.299	1.57706	5.12E-06	1.57706	1561.98	2473.747
0.17608	0.83163	312.41	261.4789	-1.0491	0.74116	0.9532	280.6633	266.5687
0.01074	0.85652	1956.149	1674.701	1.47471	1.08E-06	1.47471	1600.184	2358.377
0.92371	0.97798	203.6468	203.9753	1.08063	0.71056	1.08063	198.6222	213.0862
0.97636	1.00251	988.6819	996.6	-1.12349	0.27852	0.89008	1013.998	898.2125
0.40034	1.04511	1226.384	1283.332	-1.009	0.89007	0.99108	1208.04	1198.572
0.77583	0.9794	966.0582	948.6931	-1.11899	0.34278	0.89366	919.0278	814.3989
0.72315	0.98209	1153.927	1133.233	1.08322	0.41988	1.08322	1044.085	1126.146
0.00578	0.61502	407.4416	245.3539	1.18193	0.33411	1.18193	248.5454	291.0671
0.70472	0.97295	880.364	859.6713	-1.20599	0.00401	0.8292	851.333	705.3911
0.80411	1.01946	1887.521	1924.323	2.09285	5.04E-36	2.09285	1564.508	3276.795
0.84507	1.01819	1784.788	1822.917	1.19007	0.01021	1.19007	2590.032	3086.365
0.8835	1.00732	2386.528	2406.521	-1.15596	0.00646	0.86508	2601.236	2255.997
0.00043	0.79405	1364.632	1084.86	1.15398	0.06313	1.15398	1104.824	1271.717
0.47077	1.06294	507.4052	538.2142	1.07421	0.38751	1.07421	585.2962	627.5095
0.68519	0.97037	13769.97	13374.49	-1.05138	0.45293	0.95113	13421.37	12735.55
0.19822	1.07622	3834.916	4106.427	-1.02861	0.64435	0.97218	8676.336	8390.522
0.63447	1.03186	2632.253	2728.137	-1.13424	0.01716	0.88165	2591.885	2285.801
0.00009	1.18272	4189.824	4956.621	-1.289	0.00007	0.77579	4615.9	3585.49
0.00649	1.15238	1133.61	1306.283	1.33547	0.00644	1.33547	1017.696	1355.139
0.06508	0.79768	967.4544	764.9083	-1.0462	0.60427	0.95584	761.0712	729.6798
0.15381	1.06924	2234.936	2391.24	1.12737	0.05848	1.12737	2424.417	2726.208
0.49687	0.89042	209.7359	185.9416	1.65273	0.00185	1.65273	176.3773	291.1834
9.75E-08	0.48984	830.0881	401.3926	-1.94297	5.23E-12	0.51468	589.2726	302.8135
0.51623	1.03913	2396.924	2499.809	-1.07848	0.18118	0.92723	2582.409	2395.497
4.74E-08	0.66128	6425.538	4236.56	1.38375	5.03E-12	1.38375	5125.336	7093.811
1	1	19.10967	23.57426	1	1	1	18.65397	30.96442
0.06648	1.12469	3577.811	4007.576	1.17861	0.00467	1.17861	3726.057	4403.238
0.85708	1.01162	1101.449	1114.148	1.10609	0.13362	1.10609	1147.205	1269.647
0.00039	0.56162	1605.979	887.1263	1.1275	0.30632	1.1275	1398.011	1572.474
0.21523	1.1491	351.041	401.3539	1.41429	0.00291	1.41429	288.5916	409.0904
0.90746	1.02446	158.8853	162.7634	1.16184	0.59812	1.16184	122.777	141.7051
0.03559	1.14488	1453.528	1671.583	1.46637	3.54E-15	1.46637	1866.38	2737.484
0.78812	0.96565	298.2983	289.5972	1.49677	0.00231	1.49677	240.8666	359.5209
0.72733	0.98374	2120.423	2087.646	-1.00922	0.90045	0.99086	1918.685	1907.592
0.09179	0.6982	378.3843	256.0313	-1.05937	0.70951	0.94396	254.3711	240.4778
0.15488	0.76194	228.0566	175.5669	-2.78937	0.00008	0.3585	247.5427	88.92757
0.73381	0.95491	7702.651	7371.421	-1.65377	2.12E-16	0.60468	7162.486	4312.654
0.03291	0.79843	973.6323	771.976	3.26651	0	3.26651	771.4707	2520.056
0.09824	0.84248	1077.788	897.617	-1.02623	0.81603	0.97444	915.7228	898.0327
0.00858	0.79475	4628.133	3671.162	-4.05176	7.85E-42	0.24681	3826.882	936.6184
0.47673	0.9663	15835.92	15308.44	1.55246	1.31E-20	1.55246	16132.68	25044.93

0.71032	1.0236	1555.299	1587.377	-1.04762	0.43936	0.95454	1514.35	1447.987
0.05737	1.18027	1411.999	1668.61	1.39796	1.90E-09	1.39796	1481.148	2073.586
0.56111	0.9017	202.7841	183.9253	-1.12688	0.64998	0.88741	183.9802	166.0038
0.07117	1.25581	19266.27	24360	-2.26711	4.02E-13	0.44109	23774.86	10358.22
0.00336	0.68663	661.2022	448.9268	-1.25097	0.01002	0.79938	498.1097	398.2358
0.38999	0.86227	555.1409	487.5089	-1.49862	0.06238	0.66728	361.8699	248.486
0.17115	1.08443	3139.271	3393.275	1.02847	0.5169	1.02847	3412.186	3509.527
0.00022	0.81879	5470.892	4478.254	1.20435	0.10452	1.20435	4361.574	5234.315
0.42984	0.7337	98.44259	71.31025	2.31943	0.01732	2.31943	72.069	169.0836
0.20464	1.14434	465.8547	535.7399	-1.01778	0.85398	0.98253	639.5885	626.1102
0.21447	0.9224	2508.451	2324.08	-1.07251	0.34312	0.93239	2506.317	2331.905
0.67832	0.97189	2659.432	2588.094	1.17646	0.03362	1.17646	2552.635	2999.642
0.93325	0.98923	267.1088	263.8318	1.05043	0.71059	1.05043	243.6762	255.8299
0.46492	1.03393	2583.139	2669.315	-1.00228	0.9713	0.99773	2877.482	2866.572
0.00082	1.40361	513.2351	716.8158	1.33082	0.00631	1.33082	522.755	692.452
0.09147	0.8597	1752.615	1501.485	1.67466	1.53E-10	1.67466	1518.978	2547.044
0.37983	1.17534	241.7553	278.5737	-1.03712	0.70133	0.9642	559.9851	538.1991
0.5174	1.07816	439.8093	471.7205	1.1342	0.09862	1.1342	487.9609	553.4973
0.78459	0.97245	2129.641	2103.027	-1.25754	0.01861	0.7952	1936.959	1530.856
0.41056	0.89987	644.3888	573.544	1.37404	0.00022	1.37404	562.7333	775.2655
0.9458	0.99491	1794.579	1781.914	2.86203	1.17E-35	2.86203	1550.755	4451.459
0.75033	1.03506	853.2767	891.2328	1.07599	0.22822	1.07599	719.872	774.655
0.59228	1.03673	1364.605	1412.538	1.17419	0.0117	1.17419	1337.505	1573.125
0.16178	0.84412	1185.104	995.7832	-1.18606	0.00354	0.84313	951.2672	802.3789
0.82092	0.95723	204.3488	193.6133	1.02515	0.91301	1.02515	198.4291	200.7239
0.38443	0.93428	912.787	849.0632	1.08814	0.38054	1.08814	741.1788	810.0271
0.1141	0.81913	2336.229	1915.02	-1.66832	0.00002	0.5994	2374.141	1405.31
0.07571	1.11582	2301.685	2567.693	1.60733	1.51E-27	1.60733	2287.213	3676.32
0.38636	1.04605	1164.152	1217.16	1.01804	0.77333	1.01804	1265.627	1286.341
0.14281	0.82223	274.9348	225.3656	1.13166	0.36037	1.13166	268.3241	304.1726
0.47941	1.08345	297.8971	322.5985	1.04409	0.70906	1.04409	306.4318	319.6443
0.07527	1.14973	917.3814	1054.295	1.36172	4.17E-07	1.36172	788.6677	1073.551
0.59059	1.32992	62.61801	81.44005	1.3623	0.23912	1.3623	146.943	197.1586
1	1	18.27966	22.65797	1	1	1	18.18532	30.96665
0.94286	1.00644	897.6343	899.8496	2.20167	1.26E-44	2.20167	838.8818	1847.196
0.66027	0.96101	1137.707	1085.452	1.0333	0.6544	1.0333	1101.683	1142.474
0.41255	0.88516	393.4097	351.9392	-1.04274	0.76939	0.95901	321.0884	309.579
0.48357	1.03338	2877.254	2975.773	1.06444	0.24333	1.06444	3010.594	3206.746
0.15638	1.12709	599.8346	678.8867	1.22578	0.06328	1.22578	581.8331	709.5439
6.78E-07	0.7358	1782.746	1312.651	1.1743	0.01278	1.1743	1438.159	1687.305
0.67275	0.97081	1584.773	1531.89	-1.12634	0.02595	0.88783	1423.543	1263.936
0.11153	0.8283	4622.872	3815.055	1.03904	0.69848	1.03904	4173.284	4345.84
0.4752	1.09946	884.6596	965.8858	1.38801	0.00087	1.38801	847.0078	1183.118
0.31959	1.091	1131.18	1231.189	1.15292	0.04216	1.15292	1090.102	1260.25
0.80309	1.03682	335.2019	351.6429	-1.07026	0.50515	0.93435	459.6961	429.3092
3.40E-10	0.70859	2688.899	1905.679	-1.54629	1.68E-07	0.64671	2445.421	1577.748
0.99984	1.00001	757.7196	759.684	-1.17162	0.05433	0.85352	897.9738	764.7549
0.41105	0.89811	1455.222	1311.379	-1.21552	0.08423	0.82269	839.3512	693.981
0.00146	0.68794	1585.109	1084.328	-1.02108	0.77834	0.97936	1287.365	1263.01
4.02E-06	1.28903	1229.855	1585.776	2.61172	1.90E-10	2.61172	1104.572	2953.26
0.34219	1.05672	1092.242	1152.628	-1.25873	0.00859	0.79445	1125.319	895.8059
0.17717	1.09419	615.0419	672.0199	-1.13499	0.20274	0.88106	641.9318	565.2601

0.739	0.95555	321.867	310.1583	-1.41671	0.01102	0.70586	322.8954	227.6997
0.99581	1.0014	170.751	176.8221	1.10689	0.61219	1.10689	217.5377	239.8745
0.29492	1.07059	965.8358	1035.414	-1.34649	0.00221	0.74267	1039.766	767.4959
0.00421	0.79639	6356.248	5048.753	1.24941	0.00157	1.24941	5423.442	6792.896
1	1	18.75518	23.3172	1	1	1	17.28621	29.14243
0.52282	0.95065	2073.705	1973.972	1.47917	2.59E-09	1.47917	1782.41	2640.336
0.67928	0.97366	715.3026	695.8299	-1.07789	0.31597	0.92774	636.5097	589.7675
0.325	1.0501	2009.468	2113.315	-1.09772	0.15375	0.91098	2112.997	1923.396
0.28797	0.8802	5708.363	5034.183	1.08689	0.34419	1.08689	5090.149	5544.554
0.45848	0.90593	3056.158	2822.79	1.2445	4.67E-07	1.2445	2639.147	3284.724
0.54213	0.93325	1114.618	1044.107	1.10503	0.36606	1.10503	895.4107	986.2286
0.65639	0.96862	617.5651	598.7797	-1.33954	0.00096	0.74653	590.3248	440.273
0.20213	0.82227	7052.149	5891.41	-1.00507	0.96304	0.99495	7449.888	7378.046
0.81778	1.05713	172.982	186.1724	-1.90195	0.37202	0.52578	151.427	79.61686
0.00659	0.84272	9880.072	8347.112	1.43284	5.85E-10	1.43284	8976.926	12857.33
0.00662	0.69631	2423.229	1683.585	1.17252	0.12521	1.17252	2362.377	2766.173
0.50149	0.79732	129.6971	106.3239	-1.26443	0.27284	0.79087	226.881	181.1939
0.3862	1.06659	5375.77	5650.379	-1.09741	0.23195	0.91124	6459.218	5927.222
0.6542	0.96936	1696.445	1640.927	-1.40089	0.00102	0.71383	2439.962	1736.992
0.97134	1.01466	69.24569	70.21477	-1.27228	0.76196	0.78599	49.40888	38.36951
0.69805	1.09629	156.4428	169.3867	1.16816	0.63753	1.16816	164.5814	187.4332
0.01023	0.83813	5831.349	4904.563	1.4104	8.10E-07	1.4104	5145.673	7266.771
0.66377	0.8471	116.396	96.33673	1.23542	0.54443	1.23542	96.45453	118.6813
0.48219	0.91476	544.8613	492.6263	1.07318	0.54823	1.07318	478.2436	510.6356
0.00201	0.68744	1355.167	921.955	1.16345	0.05802	1.16345	1045.012	1219.327
0.56822	1.05403	4092.3	4321.724	1.11269	0.0135	1.11269	4167.997	4638.401
0.83728	1.01003	2015.578	2034.22	-1.01366	0.79296	0.98652	1816.116	1789.258
0.82342	0.96413	240.5706	233.6917	-1.08737	0.63214	0.91965	274.3642	254.178
0.49114	1.03224	4690.944	4836.38	1.14183	0.18797	1.14183	4656.888	5356.858
0.82171	0.98064	20066.32	19609.54	1.04693	0.47795	1.04693	18203.5	19053.23
0.7098	1.29527	44.14758	55.91383	1.70759	0.4709	1.70759	38.51872	64.81198
0.09726	1.09035	3511.548	3832.162	1.02262	0.68409	1.02262	3674.901	3761.549
0.72484	0.97443	3629.211	3504.565	1.11383	0.01307	1.11383	3549.49	3955.697
0.72437	1.02952	2171.064	2221.802	1.71863	3.97E-08	1.71863	1905.75	3278.594
0.07147	1.28945	27853.48	35766.87	-3.28431	3.57E-14	0.30448	37624.05	11081.5
0.02894	1.29627	414.8542	533.0123	1.4044	0.00003	1.4044	405.9273	570.1038
0.008	0.75667	2886.501	2173.171	-1.00707	0.88656	0.99298	2514.363	2494.828
0.8313	1.02306	466.2914	480.0522	-1.19893	0.03619	0.83408	533.9729	444.9116
0.88723	1.01671	322.3867	326.4171	1.58321	0.00011	1.58321	270.6317	427.7537
0.89408	1.00812	858.2306	864.6828	1.57674	1.29E-06	1.57674	717.1882	1128.114
0.13874	0.89411	1148.619	1029.233	-1.07925	0.12212	0.92657	1949.269	1807.672
0.94845	1.00658	627.4879	627.8203	-1.00519	0.94826	0.99484	632.0007	629.3073
4.02E-28	2.58003	45614.96	118422	4.05113	0	4.05113	46321.09	188505.9
0.10538	0.55212	225.683	115.5147	-1.22135	0.46073	0.81876	167.6616	136.9805
0.92179	0.99435	2381.021	2370.289	1.82092	3.93E-25	1.82092	2630.423	4784.304
0.63895	1.02235	2493.373	2545.399	-1.20172	0.00146	0.83214	2338.712	1940.037
0.6147	1.12683	206.892	239.2976	-1.13249	0.5145	0.88301	270.3621	239.0508
0.8866	1.02513	219.8582	225.047	-1.06676	0.70998	0.93742	207.295	194.6355
0.82762	0.97245	372.1788	365.2099	-2.18202	0.00009	0.45829	327.1337	148.5295
0.53849	1.03837	7652.643	7959.293	-1.19112	0.0046	0.83954	8751.896	7335.882
1.21E-07	0.74573	33533.94	24969.7	-1.1533	0.05585	0.86708	31193.41	26973.99
0.46545	0.87306	691.1627	613.322	-1.44138	0.00233	0.69378	566.0466	390.2684

0.72424	1.14732	123.1587	132.2026	2.46132	0.01402	2.46132	82.14584	200.4711
0.18296	0.84259	1067.139	892.6583	1.2553	0.00496	1.2553	896.435	1128.714
0.13228	1.25024	4562.009	5837.61	1.41648	0.00007	1.41648	4200.753	5977.859
0.05812	0.82945	1705.051	1415.53	1.1068	0.14817	1.1068	1435.447	1592.223
0.02443	0.69615	436.6411	299.3839	-1.01089	0.93998	0.98923	373.1649	372.1929
0.57405	1.11789	476.3806	519.0985	1.57995	0.00009	1.57995	389.3453	617.9044
0.00003	0.78399	1297.722	1017.507	-1.01341	0.88229	0.98677	1184.146	1166.609
0.12269	0.87195	4722.34	4111.882	-1.14649	0.04585	0.87222	4374.432	3808.569
0.50555	0.93165	2183.32	2031.002	1.14386	0.02334	1.14386	1734.141	1982.288
0.01402	1.15278	2332.216	2693.459	1.03752	0.48806	1.03752	2834.766	2934.501
0.48428	0.95422	563.3908	537.8281	-1.01581	0.8544	0.98443	528.7266	519.5975
0.11908	0.78699	6073.655	4865.908	1.37981	0.00706	1.37981	6358.593	8801.905
0.95456	1.01291	128.4688	130.5006	1.1918	0.58118	1.1918	130.3312	156.5726
0.00238	0.86348	2012.604	1737.677	1.18378	0.00019	1.18378	1762.849	2087.081
0.35107	1.07426	13467.71	14363.79	-1.68706	6.36E-12	0.59275	13127.74	7758.181
0.93205	0.986	277.5704	271.2827	1.0535	0.66596	1.0535	297.8113	314.2793
0.39859	1.11193	483.176	543.2074	1.24652	0.0232	1.24652	384.8544	480.2778
6.35E-10	0.61379	3425.269	2100.524	-1.90574	7.29E-44	0.52473	2489.571	1306.35
0.98039	0.99896	8137.24	8128.161	-1.0825	0.30592	0.92379	8245.304	7550.888
0.84254	1.01246	2184.697	2204.887	-1.02894	0.56128	0.97188	2265.551	2198.118
0.45822	0.8774	521.4801	466.3091	-1.2386	0.11927	0.80736	303.9117	245.8088
0.07545	0.89387	4189.899	3748.173	1.46384	3.18E-10	1.46384	3980.929	5828.937
0.74631	0.97658	1750.683	1709.934	-1.1446	0.17287	0.87367	1813.739	1579.164
0.909	1.0091	397.7764	401.4769	1.30545	0.0259	1.30545	348.1502	452.4114
0.26264	1.08681	2279.427	2489.686	-1.0556	0.49147	0.94733	2415.284	2282.788
0.44692	1.04465	2175.311	2280.137	-1.21985	0.0001	0.81978	1808.12	1483.751
0.06795	0.59418	191.9847	117.3436	1.35792	0.27721	1.35792	187.5808	247.5071
0.00013	0.69611	772.931	535.1947	-1.63036	0.00037	0.61336	609.5924	376.6088
0.20122	0.91468	1933.898	1777.339	-1.08699	0.22763	0.91997	1837.328	1688.543
0.65245	1.02648	3413.278	3518.019	-1.13002	0.0092	0.88494	3390.268	2996.245
0.46916	1.21405	161.2453	189.6819	1.83041	0.02877	1.83041	129.1063	236.2052
0.13359	1.18142	364.3453	429.1099	1.11421	0.26138	1.11421	364.1382	405.3448
0.21558	1.06975	1858.527	1985.195	1.01554	0.76929	1.01554	2102.775	2137.989
0.56286	0.89077	6973.033	6211.778	1.86753	0.00013	1.86753	5026.899	9677.982
0.90123	0.98615	373.0145	366.795	-1.13251	0.35132	0.88299	405.5914	359.2849
0.05466	0.90511	1156.975	1047.788	-1.27969	0.00135	0.78144	1149.528	895.7877
0.97044	1.00572	311.4185	317.8258	1.11657	0.50723	1.11657	263.2593	291.4667
0.01159	0.74541	4697.633	3469.913	-1.05671	0.55406	0.94633	4106.61	3903.063
0.11404	1.15754	380.2753	439.0351	-1.0948	0.42982	0.91341	432.1557	396.4401
0.17164	0.82534	7722.162	6430.796	1.27904	0.08611	1.27904	6524.473	8453.702
0.01464	0.82183	842.3552	689.3308	1.22576	0.00082	1.22576	714.0839	874.8436
0.86135	0.98385	1037.878	1019.724	2.04491	9.50E-13	2.04491	909.5526	1867.709
5.44E-25	0.54896	45078.23	24750.16	-2.17376	7.15E-39	0.46003	40614.83	18680.48
0.862	0.9776	1238.459	1210.722	3.09248	5.44E-42	3.09248	1098.395	3398.305
0.50966	0.87939	312.2449	267.5451	-1.12848	0.404	0.88615	272.7028	242.0344
0.92302	1.00498	1477.314	1484.283	1.64808	2.61E-22	1.64808	1317.707	2171.811
0.0002	0.72645	3073.829	2217.286	-1.15628	0.07685	0.86484	2339.449	2030.234
0.17787	1.29769	205.5427	271.6706	3.23058	0.00006	3.23058	165.6014	511.2737
0.06072	1.22069	354.6856	434.9888	1.60856	8.47E-06	1.60856	394.8769	632.8547
0.12295	1.10166	948.8366	1042.654	-1.01445	0.81214	0.98575	1158.392	1142.248
0.00738	0.72978	334.2355	243.2673	-1.10762	0.48726	0.90284	270.1775	243.2993
0.52639	1.03463	1219.723	1260.863	-1.23973	0.00154	0.80663	1481.648	1198.097

0.30873	0.92728	2695.83	2502.678	1.54237	2.11E-20	1.54237	2422.904	3737.575
0.50152	0.94047	1149.191	1078.979	1.1994	0.05386	1.1994	1049.118	1264.53
0.00001	0.57767	2709.596	1539.194	-1.05238	0.57686	0.95023	1908.409	1815.457
0.89385	1.00846	1655.187	1668.547	1.00307	0.9636	1.00307	1569.231	1577.387
0.75825	1.04991	256.8492	266.9601	1.54604	0.00949	1.54604	252.2401	386.796
0.52496	1.05855	361.9821	383.4896	1.26497	0.01882	1.26497	330.6803	417.8655
0.25633	1.1229	1278.416	1437.584	1.60655	1.07E-10	1.60655	1159.979	1867.802
0.82269	1.16734	49.69746	57.49439	1.1963	0.57873	1.1963	130.9507	154.3991
0.8443	1.02199	1350.69	1387.306	-1.20572	0.00225	0.82938	1168.486	970.3223
0.62396	0.89912	244.3596	215.025	1.17145	0.53682	1.17145	159.8371	189.5604
1	1	18.04168	21.81263	1	1	1	17.56871	33.08224
0.76151	1.06006	389.548	418.8545	-1.72763	0.00949	0.57883	246.1602	143.431
4.37E-06	0.77443	3881.32	3004.668	1.12244	0.06279	1.12244	3423.455	3850.678
0.46292	1.05864	1604.458	1690.128	-1.03354	0.5662	0.96754	1875.552	1816.938
0.00011	1.28101	2456.52	3155.048	1.63786	1.66E-20	1.63786	2370.547	3882.412
0.00973	0.74356	854.8935	628.9	-1.15645	0.19605	0.86471	693.6574	602.8652
0.30033	1.09083	1884.375	2067.698	1.36188	2.11E-09	1.36188	1479.975	2017.8
0.3156	1.05501	1398.369	1472.653	1.07144	0.18136	1.07144	1303.232	1395.383
0.0001	0.78441	2115	1653.688	1.28709	0.00112	1.28709	1886.825	2402.467
0.00371	1.19013	1489.764	1771.59	1.56727	4.52E-12	1.56727	1475.041	2314.492
0.57568	0.85096	121.2498	103.7724	-1.51447	0.53156	0.6603	65.07863	42.99574
0.04722	0.89778	2505.927	2247.948	1.34358	2.01E-07	1.34358	2351.978	3163.243
0.81562	0.97902	1037.247	1015.678	-1.02471	0.63948	0.97589	1439.706	1404.63
0.44102	1.11355	258.4978	286.6611	1.09232	0.63662	1.09232	222.3995	241.666
0.00236	0.82189	1938.705	1595.782	-1.75606	9.45E-09	0.56946	1353.583	771.1285
0.18035	0.94292	2833.265	2671.166	1.18321	0.01313	1.18321	2775.027	3277.051
9.02E-08	0.54049	3593.135	1931.545	-1.04397	0.45456	0.95788	2590.805	2481.761
0.65156	0.9009	278.6179	262.2548	1.10627	0.52844	1.10627	258.1704	284.1782
0.05081	1.73677	108.372	184.5318	1.09584	0.84206	1.09584	85.74278	94.56927
0.04687	1.2648	2036.909	2576.291	2.14009	0	2.14009	2075.814	4442.381
0.02242	0.85567	1673.793	1430.426	1.25348	0.01073	1.25348	1617.373	2029.413
0.99082	0.99942	1751.071	1749.355	1.193	0.00399	1.193	1422.808	1698.331
0.33993	1.04921	3677.107	3852.306	-1.11307	0.0247	0.89842	3534.785	3178.239
0.77783	0.98292	1655.803	1625.591	-1.18632	0.01439	0.84294	1468.813	1241.511
0.70886	1.07067	303.6852	323.2128	-1.03645	0.81721	0.96483	415.3146	397.5818
0.05015	1.16066	10294.29	11917.93	-1.40344	5.29E-10	0.71254	8952.157	6382.233
0.91945	1.08782	44.47174	46.68086	1.9021	0.20721	1.9021	54.6255	103.494
0.07738	0.9096	4815.095	4382.114	1.27608	0.00007	1.27608	4332.406	5523.724
0.06148	1.11683	737.4767	822.8712	1.10003	0.23145	1.10003	762.3418	840.1733
0.00717	0.86758	12178.36	10574.63	1.22135	0.00016	1.22135	12107.37	14784.51
0.8006	1.02503	846.8019	864.1037	2.10956	1.61E-41	2.10956	743.0311	1567.602
0.09137	1.19099	7760.675	9219.205	-2.23041	2.94E-25	0.44835	9184.609	4091.842
0.66065	0.96809	3116.444	3016.815	1.16709	0.00574	1.16709	2499.852	2919.115
0.81108	1.01718	2171.684	2220.763	-1.13906	0.05037	0.87791	2198.535	1925.642
0.35922	0.90616	6169.184	5609.464	1.6067	1.96E-08	1.6067	5719.625	9209.916
0.00165	0.58985	20552.87	11836.63	-1.25127	0.11237	0.79919	16768.09	13264.08
0.88162	0.9826	2707.959	2672.59	-1.30443	0.00129	0.76662	2199.384	1680.691
0.45167	1.14011	218.8262	246.829	-1.22854	0.1444	0.81397	371.9204	303.0586
0.43761	0.91438	267.1098	244.3936	-1.18473	0.40406	0.84407	233.0142	194.9688
0.06636	1.16764	41097.61	47742.84	1.24664	0.04974	1.24664	45389.45	57103.77
0.15869	1.09946	930.8914	1020.661	1.07516	0.27493	1.07516	976.2531	1050.96
0.98218	0.97802	30.00093	29.42435	1.22637	0.84659	1.22637	30.84559	44.13136

0.45122	0.96667	59455.12	57436.57	1.17674	0.01668	1.17674	64374.52	75813.92
0.01276	0.7999	21676.39	17394.63	1.09308	0.38021	1.09308	24064.2	26168.28
0.09454	0.90899	4686.536	4260.514	1.1247	0.02765	1.1247	4603.352	5176.097
0.18797	0.87847	1273.611	1115.818	-1.32569	0.01467	0.75433	1181.68	891.1458
0.90186	0.94227	75.92755	73.34004	-1.2283	0.75173	0.81413	54.92429	44.80474
0.0792	1.11347	11540.01	12832.74	-1.50941	6.60E-09	0.66251	14375.36	9497.109
0.8388	0.97476	1138.17	1107.264	1.47736	9.97E-06	1.47736	1183.758	1749.548
0.41401	0.9524	7502.145	7172.84	-1.07444	0.30404	0.93072	7248.351	6730.856
0.72556	1.02741	595.8229	613.6619	1.13104	0.12662	1.13104	498.6986	564.623
0.00185	0.82897	1692.473	1403.913	-1.20981	0.02571	0.82658	2294.512	1900.447
0.15662	1.09316	906.3138	992.5067	-1.10965	0.10289	0.90118	927.9467	835.2677
0.19684	0.90645	1245.327	1129.485	3.30436	0	3.30436	994.2125	3295.314
0.77326	1.023	1285.054	1311.37	1.43308	3.02E-11	1.43308	1237.624	1775.232
0.73475	1.02265	1449.828	1488.42	1.02253	0.78782	1.02253	1496.515	1527.779
0.64338	1.07126	203.1283	217.1744	-1.18995	0.33721	0.84037	200.6396	168.6359
0.63928	0.90874	201.8563	184.9462	1.11543	0.59019	1.11543	242.7972	275.1286
0.29631	0.86754	4536.545	3932.206	1.20361	0.0679	1.20361	3691.815	4467.022
0.91848	0.99552	4089.663	4072.135	-1.02712	0.7173	0.97359	7687.561	7444.267
0.99337	0.99884	287.4453	285.3868	1.11005	0.37746	1.11005	298.5406	331.7749
0.83912	0.9661	1021.493	991.6696	-1.80897	1.56E-08	0.5528	1005.576	557.3646
0.4309	1.12261	288.1378	324.4234	-1.0825	0.34504	0.92379	466.5569	431.0158
3.72E-07	0.58884	1234.813	724.6617	1.62403	0.00011	1.62403	845.6031	1366.787
0.33352	1.05554	2602.521	2744.425	-1.18176	0.00639	0.84619	3106.442	2642.612
0.13942	0.86437	4874.012	4233.904	1.35997	8.80E-07	1.35997	4721.697	6407.708
0.3326	0.93014	761.8012	710.7303	-1.08872	0.19941	0.91851	716.7861	657.9937
0.67347	0.9643	679.5206	652.6831	-1.43255	4.06E-08	0.69806	712.0981	497.1486
0.01381	0.75436	687.9735	514.4748	1.20421	0.07059	1.20421	517.6052	625.6563
0.03991	0.89512	3799.134	3398.917	1.45152	0.00005	1.45152	3255.85	4720.934
0.52487	1.03688	5823.904	6051.775	-1.28826	0.00003	0.77624	6274.49	4858.483
0.93374	1.0082	24232.22	24543.92	1.39104	0.00014	1.39104	24390.36	34030.98
0.1103	0.87059	1962.464	1707.146	-1.05677	0.28809	0.94628	2631.569	2492.646
0.65464	1.19642	77.5987	92.97603	1.05978	0.92979	1.05978	62.58356	64.24689
0.75003	1.13224	75.07842	85.54025	-1.01889	0.9663	0.98146	75.95296	74.54248
0.88845	0.98069	237.6646	233.7777	-1.1051	0.58374	0.9049	197.3342	178.5673
0.02993	1.14044	1162.745	1324.6	-1.08014	0.12543	0.9258	1458.286	1350.494
0.71381	0.96424	458.8713	444.4659	1.21375	0.13336	1.21375	323.3788	394.5906
9.61E-07	0.75491	1841.011	1389.568	1.04484	0.66387	1.04484	1472.373	1534.303
0.65901	0.93274	566.8752	538.9426	-1.69845	4.40E-07	0.58877	814.2459	476.9812
0.11834	0.73415	3344.144	2496.967	-1.81399	4.57E-13	0.55127	1424.783	785.7289
0.721	1.13058	92.92194	103.8162	1.07703	0.91141	1.07703	77.52885	79.68625
0.3049	1.07201	1348.627	1440.703	1.11957	0.02198	1.11957	1503.33	1681.782
0.90784	0.99362	972.9381	967.7327	-1.08339	0.24989	0.92303	968.7766	893.4629
0.0181	1.19827	984.4662	1184.284	1.07223	0.25897	1.07223	1152.259	1235.221
0.28245	0.86105	8221.716	7096.78	-1.4235	4.63E-12	0.70249	6529.318	4597.682
0.02628	0.77031	6230.795	4789.416	1.18233	0.02552	1.18233	5112.045	6063.617
0.87319	0.9286	62.61496	57.88664	-1.03047	0.96474	0.97043	49.96706	48.89494
0.16559	1.21194	401.8497	479.2562	1.03224	0.563	1.03224	839.043	866.0992
0.84807	1.02975	337.4658	341.6357	-1.06264	0.56625	0.94106	514.0266	485.6004
0.91649	0.91399	51.12714	47.48772	1.38137	0.65798	1.38137	70.42719	88.34558
0.37485	0.8954	364.3481	325.2402	-1.07576	0.62539	0.92958	325.7903	303.2567
0.70086	1.09604	117.8713	128.9229	1.08626	0.83749	1.08626	105.2748	114.058
0.24594	1.08395	2439.506	2631.426	1.12719	0.05438	1.12719	2658.716	3006.143

0.05144	0.72997	3509.836	2504.99	-1.17515	0.18537	0.85096	2491.052	2118.647
0.80438	1.01859	1035.579	1053.77	1.26193	0.00035	1.26193	979.0492	1237.442
0.9675	1.00489	347.3792	347.0728	1.51503	0.00002	1.51503	299.4067	453.4947
0.24769	1.12277	1585.688	1792.921	-1.68355	1.48E-23	0.59398	1475.494	876.4558
0.53039	1.15514	159.1559	184.2253	1.0304	0.86836	1.0304	199.2615	205.3614
0.0837	0.79266	1567.55	1235.505	1.90252	4.28E-11	1.90252	1096.697	2107.305
0.97017	0.99677	803.5911	803.3905	1.4339	0.01232	1.4339	757.6947	1084.425
0.02468	0.83105	1419.417	1177.118	-1.20322	0.04072	0.83111	1196.152	996.6996
7.75E-11	0.6392	1792.563	1145.951	-1.44892	6.16E-06	0.69017	1566.106	1078.944
0.73415	1.04308	350.5432	365.7308	-1.02218	0.87719	0.97831	368.9286	357.9688
0.26041	0.88856	1342.547	1200.012	-1.09661	0.3309	0.9119	1324.956	1204.896
0.95752	0.99348	983.5483	987.0376	-1.13629	0.14128	0.88005	815.4535	715.7117
0.31319	1.13755	522.8915	601.3504	-2.20194	7.52E-09	0.45415	537.2997	245.6769
0.90621	1.11323	40.31829	45.19068	1.07148	0.93574	1.07148	52.0887	63.65141
0.01724	0.81376	1393.189	1131.177	1.02805	0.60694	1.02805	1177.277	1209.894
0.72659	1.0291	2512.939	2627.367	-1.24183	0.00035	0.80526	3558.993	2868.535
1	1	18.43837	23.80209	1	1	1	17.26447	30.40398
0.66529	0.96743	1459.862	1412.043	1.11813	0.06988	1.11813	1287.793	1441.04
0.60516	1.03032	2068.792	2136.366	-1.045	0.32165	0.95694	1975.477	1890.681
0.40101	1.14612	200.8008	230.1472	1.15218	0.45735	1.15218	202.0169	234.1114
0.04289	1.39158	181.1876	253.3525	2.45713	0.00017	2.45713	142.6357	345.5094
0.02389	0.85872	1815.527	1558.57	-1.25288	0.00001	0.79816	1624.425	1296.429
0.22213	1.11532	501.3856	557.1748	1.16062	0.12463	1.16062	445.5634	516.4877
0.09865	0.44017	112.2919	48.10866	-2.09156	0.3039	0.47811	73.16673	34.5329
0.78485	1.02252	840.5203	857.7578	1.0211	0.83105	1.0211	682.5866	699.8994
0.86023	0.98361	1384.379	1356.614	1.27874	0.00004	1.27874	1435.72	1837.105
0.31791	0.80475	11581	9164.166	-2.74543	4.80E-15	0.36424	8570.889	3075.853
0.30247	1.10095	665.5027	735.1059	1.85835	1.49E-26	1.85835	653.5809	1214.715
0.00026	0.80042	1266.711	1013.811	1.54041	0.00001	1.54041	1033.625	1586.601
0.1583	0.8943	2030.773	1815.701	1.727	2.37E-26	1.727	1802.318	3113.702
0.14444	1.0768	5211.217	5619.464	-1.06156	0.32885	0.94201	5938.582	5601.745
0.98957	1.00128	4728.816	4695.065	-1.23316	0.00146	0.81093	4683.367	3821.983
0.98647	0.99858	554.183	552.3237	1.0881	0.26711	1.0881	552.0256	600.9364
0.34665	1.06474	2768.487	2973.14	-1.03566	0.65855	0.96557	2617.345	2515.143
0.84305	1.04529	154.4824	163.0366	1.08886	0.65358	1.08886	169.9326	184.6834
0.09552	0.88264	691.335	611.5266	1.13423	0.39786	1.13423	512.0596	586.2908
0.07351	0.91244	1186.507	1082.823	1.03364	0.65918	1.03364	1095.552	1130.714
0.95836	0.99253	223.9007	221.8167	-1.21545	0.28484	0.82274	197.7539	162.4829
0.00009	0.81238	4965.733	4026.09	-1.00433	0.96031	0.99569	4397.509	4371.092
0.00546	1.37224	1643.244	2285.532	2.55962	6.57E-09	2.55962	1582.995	4214.323
0.9694	1.00533	460.2071	457.1985	1.05699	0.60899	1.05699	497.2976	526.5014
0.53773	1.03477	2104.726	2170.785	1.07126	0.16629	1.07126	2210.014	2364.451
0.03438	0.81443	13094.46	10674.87	-1.25541	0.02855	0.79655	11718.78	9304.597
0.72107	0.83274	84.54507	68.07632	1.34088	0.53044	1.34088	67.62431	90.80174
0.00074	1.19031	1703.295	2026.659	-1.23121	0.00059	0.81221	2053.625	1664.045
0.96414	1.00908	205.2592	207.1437	-1.26667	0.30351	0.78947	151.8357	119.8719
0.91946	0.98418	344.2845	345.7691	-1.06845	0.46043	0.93593	430.7673	403.4924
0.24618	1.05445	2234.988	2355.035	-1.1477	0.03623	0.87131	2561.419	2228.775
0.82978	1.03244	290.451	297.5428	-1.22166	0.17375	0.81856	348.2624	285.5102
0.59296	0.93024	5226.879	4848.11	1.16618	0.24601	1.16618	5064.409	5893.376
0.28557	1.1352	6723.227	7643.862	-1.51192	4.49E-06	0.66141	7467.104	4941.797
0.00562	0.71961	894.5487	638.528	-1.46631	0.00035	0.68198	774.9946	530.7092

0.72503	1.07204	212.6577	224.6244	-1.1777	0.46728	0.84911	266.76	231.8431
0.00197	0.69874	4314.557	2999.121	-1.10999	0.25831	0.90091	3513.91	3175.381
0.39632	0.80591	142.7473	114.404	1.56824	0.11877	1.56824	126.5128	202.1379
0.06365	1.09901	2562.515	2817.389	-1.11692	0.037	0.89532	2871.301	2565.141
0.10515	1.11549	2934.977	3288.858	-1.36643	0.00027	0.73183	4934.4	3603.267
0.43943	0.92642	732.0053	682.5493	-1.18752	0.09298	0.84209	704.2639	595.6563
1	1	18.77451	23.86421	1	1	1	17.98764	30.64415
0.73402	0.93	1397.091	1333.336	-1.80173	1.60E-06	0.55502	1046.12	577.0442
0.34716	1.09494	8140.347	8964.142	-1.20751	0.00004	0.82815	9051.799	7499.218
0.93747	1.02499	136.492	143.3501	1.16384	0.50301	1.16384	163.1364	190.3317
0.95549	0.93047	24.07397	23.23199	1	1	1	19.2407	33.03854
0.00003	0.74297	2390.985	1775.563	-1.17952	0.00158	0.8478	2327.684	1969.864
0.04086	0.91794	6005.614	5511.95	-1.02068	0.65246	0.97974	8255.108	8086.941
0.89824	1.08725	60.33054	63.05529	1.85112	0.21722	1.85112	62.99363	119.8637
0.89868	0.83865	23.93851	24.33647	1.02876	0.97536	1.02876	34.33318	42.64744
0.00234	0.78706	3621.424	2852.002	-1.61531	2.54E-08	0.61908	3069.552	1898.776
0.29218	0.885	5452.506	4978.199	-1.2429	0.00007	0.80457	4722.021	3794.567
0.07402	1.0831	3338.827	3616.221	-1.29506	1.42E-09	0.77216	3432.358	2650.326
0.9128	1.01253	1180.203	1205.987	-1.66351	9.28E-11	0.60114	1316.145	788.2849
0.78725	0.86415	82.65951	75.68082	-1.46321	0.58763	0.68343	59.38935	40.56771
0.54188	1.05041	503.672	529.0646	1.00939	0.9008	1.00939	872.0264	878.101
0.43235	1.05552	1608.713	1700.969	1.58543	2.91E-11	1.58543	1463.146	2316.669
0.59831	1.04837	533.3565	556.9031	1.04895	0.63355	1.04895	516.074	542.3561
0.012	0.5831	13617.68	7583.504	-1.48178	0.00501	0.67486	9595.429	6411.174
0.00845	0.7207	642.0394	457.7925	1.50009	0.00003	1.50009	519.1344	781.5867
0.41805	1.0702	612.28	657.2568	1.08983	0.24955	1.08983	1220.002	1328.409
0.30791	1.06641	1347.867	1430.272	-1.04164	0.46128	0.96002	1311.568	1257.78
0.43176	1.1144	275.3135	308.5966	1.09331	0.55694	1.09331	358.753	387.4904
0.07494	0.88237	1064.186	935.2206	-1.11863	0.07863	0.89395	983.7834	880.6134
0.98377	0.99906	9725.483	9708.954	1.36593	3.29E-07	1.36593	9183.688	12554.74
0.2216	1.13053	1610.511	1817.71	1.21378	0.00663	1.21378	1571.983	1918.599
0.22423	1.06268	2204.25	2340.746	-1.23993	5.44E-06	0.8065	2552.72	2059.316
0.65585	0.95469	331.8735	317.1117	-1.25175	0.3511	0.79888	171.3431	136.3773
0.91531	0.95044	82.0118	77.44685	1.14201	0.74906	1.14201	76.32796	87.61958
0.56449	0.96565	1264.978	1221.074	1.2551	0.00026	1.2551	1181.205	1480.679
0.00575	0.70885	520.0897	364.9059	-1.03055	0.78399	0.97035	380.7151	370.3026
0.00474	0.64029	1108.799	700.0797	-1.13658	0.35897	0.87983	869.5757	770.9584
0.15091	1.09218	1896.444	2076.003	-1.02704	0.56608	0.97368	2169.709	2113.237
0.62712	0.90505	441.4583	410.8521	-1.98609	0.00032	0.5035	328.5693	167.0278
0.0534	1.27507	24567.34	30726.29	-1.56351	0.00143	0.63959	35757.33	22321.96
0.00624	1.1467	938.3544	1075.749	1.13407	0.0988	1.13407	1012.485	1145.919
0.87085	1.05628	85.89599	90.25171	1.04668	0.89674	1.04668	93.22119	97.97588
0.44085	0.93588	608.3304	571.1237	-1.00972	0.93182	0.99038	585.3051	576.1657
0.92248	0.99602	3783.273	3768.479	-1.27385	1.28E-06	0.78502	3748.739	2941.593
0.10167	0.7216	399.5104	279.2494	1.19845	0.12326	1.19845	397.5687	479.0361
1	1	17.92617	22.82829	1	1	1	19.3991	31.18581
0.48807	1.08288	704.4941	758.8783	1.25019	0.0009	1.25019	851.7457	1065.383
0.30575	1.0532	1603.554	1688.47	1.77125	1.39E-13	1.77125	1607.604	2847.629
0.55835	0.91698	435.1778	393.1491	1.41794	0.0169	1.41794	350.2988	501.4032
0.35366	1.08943	937.5636	1015.353	1.11745	0.07969	1.11745	1001.268	1121.013
0.52847	1.10928	236.0217	264.5569	1.78898	0.01891	1.78898	229.7002	399.9825
0.16263	1.11895	671.9369	754.2814	-1.40748	0.00004	0.71049	864.436	612.76

0.57152	1.03853	667.6548	694.2696	-1.03908	0.63807	0.96239	638.8138	613.6679
0.01088	1.16254	6852.472	8004.077	-9.03774	0	0.11065	6454.03	713.9889
0.48622	0.9162	1122.384	1026.58	1.30576	0.0038	1.30576	936.8496	1229.906
0.45602	0.95545	1179.423	1128.312	-1.17685	0.00718	0.84973	1149.636	975.7517
0.00066	0.78273	11126.93	8728.956	-1.03426	0.71175	0.96687	6798.389	6596.66
0.941	1.00454	804.2991	806.9851	-1.0635	0.37208	0.94029	776.3996	729.5569
0.86772	1.04798	108.9105	113.3748	1.00409	0.98879	1.00409	108.4223	108.9009
0.47866	0.88883	457.905	400.4001	1.32044	0.06315	1.32044	413.3126	552.8524
0.01648	1.16703	4082.739	4779.356	-1.30672	0.0001	0.76528	4862.259	3695.731
0.39423	0.87798	1158.486	1043.466	-1.79777	0.00013	0.55625	646.5521	363.0291
0.781	1.03239	453.2892	465.1912	1.10721	0.30556	1.10721	411.5909	456.5677
0.01667	0.8624	12811.76	11060.67	1.1052	0.03336	1.1052	11246.3	12431.44
0.43791	1.06622	1529.71	1645.65	-1.06488	0.41179	0.93907	2187.154	2065.857
0.386	1.12781	957.5874	1089.529	-1.55589	0.00438	0.64272	897.7842	568.7514
0.00914	0.87583	3995.02	3493.365	1.01125	0.92098	1.01125	3055.426	3071.362
0.41527	1.04936	1108.311	1162.711	1.33888	0.00007	1.33888	1050.329	1405.567
0.22429	0.88996	690.1554	610.6515	1.23814	0.00583	1.23814	665.5509	825.6452
0.88536	0.91377	60.45139	53.61078	2.54706	0.06286	2.54706	48.45446	125.3439
0.01315	0.89496	5394.669	4825.707	-1.03174	0.5587	0.96924	5059.395	4905.667
0.31756	1.07053	5113.567	5532.02	-1.13193	0.04611	0.88345	8228.708	7291.453
0.82662	1.01974	583.66	592.6307	1.03623	0.63519	1.03623	555.945	576.085
0.58451	1.02699	1567.893	1609.136	-1.18322	0.0018	0.84515	1731.095	1461.346
0.16649	0.84982	959.0137	809.9065	-1.08134	0.214	0.92478	764.1722	707.0001
0.95325	0.98708	124.3472	122.749	-1.03556	0.90831	0.96567	126.3915	122.0428
0.31503	1.05352	2115.571	2231.719	-1.03089	0.68886	0.97003	2265.468	2195.646
0.00052	0.80684	4563.902	3676.616	1.20808	0.00006	1.20808	4043.422	4883.301
0.52471	0.96389	1886.067	1814.289	-1.15763	0.00194	0.86383	1946.447	1680.511
0.45561	0.93725	856.02	797.8552	1.29553	0.00055	1.29553	773.7635	1004.624
0.30855	1.05361	6201.795	6524.779	1.01732	0.74877	1.01732	6693.253	6790.917
2.11E-08	0.71847	3893.631	2800.101	1.17031	0.00612	1.17031	3164.492	3707.837
0.00662	0.62768	1592.77	981.1523	1.07071	0.60753	1.07071	1370.061	1474.504
0.22609	0.87641	832.1584	723.9269	1.17409	0.01971	1.17409	747.7309	879.2184
0.26783	0.79872	178.3639	141.8046	1.97713	0.00009	1.97713	131.8535	260.7042
0.00008	0.5394	356.7047	190.8553	-1.12493	0.63549	0.88894	188.2111	166.6595
0.33703	0.9451	1108.302	1048.689	-1.03349	0.66754	0.96759	1156.783	1115.971
0.30765	0.88962	2279.136	2025.248	1.24561	0.00022	1.24561	2070.288	2576.99
0.0136	0.60248	1078.142	629.4706	1.09542	0.52167	1.09542	708.9143	784.2821
1.80E-06	0.74395	4489.433	3341.231	1.07686	0.08339	1.07686	4175.591	4497.021
0.1455	1.14285	479.4545	550.0579	1.14419	0.3305	1.14419	550.7288	624.4105
0.4161	1.09331	3530.249	3821.943	-1.89246	4.61E-12	0.52841	4591.715	2394.927
0.77419	0.95621	1540.058	1492.55	-1.35917	1.24E-11	0.73575	3188.663	2346.183
0.97124	0.99549	877.4565	884.3346	-1.09184	0.53562	0.91589	891.5397	809.8283
0.05099	0.7086	436.7911	302.9308	-1.22786	0.19813	0.81442	317.0518	259.0882
0.01237	1.32193	649.3776	854.8174	1.19041	0.10873	1.19041	593.7871	703.3628
3.37E-13	0.73522	5453.8	4009.995	1.11997	0.05523	1.11997	4466.871	5008.093
0.06861	1.10036	2224.905	2453.941	-1.17049	0.03106	0.85434	2931.874	2507.649
0.7675	0.97234	651.2157	636.639	-1.22124	0.05213	0.81884	491.2325	401.0945
0.17111	0.81569	242.4131	197.4437	1.5099	0.08823	1.5099	185.2386	274.5317
0.69113	1.03151	609.4738	630.2509	1.15983	0.03851	1.15983	527.442	611.4221
0.6625	1.03447	2258.327	2333.136	-1.04995	0.29046	0.95242	2302.783	2193.918
0.41852	0.94467	847.5565	803.0332	-1.02692	0.73114	0.97379	914.3866	887.9016
0.93684	0.99391	1117.73	1108.164	-1.03097	0.59059	0.96996	898.9374	872.1287

0.39247	0.86517	603.3854	511.9863	1.11697	0.42526	1.11697	483.184	541.9157
0.53385	0.96401	6690.878	6463.858	-1.04753	0.52136	0.95462	7031.831	6689.762
0.01277	1.17515	11875.5	13972.35	-1.52028	1.45E-22	0.65777	12763.04	8394.701
0.11622	0.86983	1742.481	1508.745	1.17905	0.12277	1.17905	1592.739	1882.241
0.71493	0.95651	2160.779	2082.984	-1.2949	0.00562	0.77226	2301.404	1769.018
0.11204	1.14194	1540.094	1763.193	1.10858	0.31021	1.10858	1616.353	1791.228
0.60204	0.96821	769.3917	745.9298	1.16415	0.05832	1.16415	736.9337	856.0076
0.25892	1.11107	2066.816	2280.809	1.05742	0.51429	1.05742	2194.364	2325.543
0.0224	1.11955	3566.39	3997.905	1.07746	0.16451	1.07746	3905.561	4203.88
0.69723	0.93817	385.8735	367.0192	-1.33408	0.10521	0.74958	300.5146	227.5647
0.61789	0.832	115.5105	96.72069	1.11284	0.75098	1.11284	93.01537	103.7991
0.24377	1.15391	26184.47	30020.26	-3.16077	5.20E-19	0.31638	37188.01	11458.47
0.33747	0.90006	7702.822	6977.275	1.31676	0.00217	1.31676	7095.923	9370.54
0.43754	1.06726	452.4948	481.8232	-1.02849	0.77901	0.9723	471.2549	457.3627
0.00031	0.81058	1476.343	1196.129	-1.51763	0.00033	0.65892	1395.686	921.0236
0.97265	1.00413	285.2655	285.6325	1.00153	0.99369	1.00153	221.8214	220.6621
0.00008	0.53337	1695.262	884.7926	-1.13394	0.13264	0.88188	1044.019	917.0949
0.50442	1.03945	4257.352	4406.063	-1.0216	0.64211	0.97885	4385.908	4297.275
0.08101	0.83145	4842.859	4045.198	1.10502	0.17234	1.10502	4208.046	4657.292
0.62398	0.95561	2189.131	2111.066	1.43582	1.49E-14	1.43582	2585.928	3713.589
0.69489	1.08402	155.1451	168.5262	-1.28563	0.31098	0.77783	190.6538	148.0748
0.43021	0.90505	1743.344	1590.062	-1.03805	0.72994	0.96335	1582.481	1518.11
0.27222	0.69921	126.4477	88.53186	1.60807	0.23661	1.60807	85.1996	133.9356
0.68646	1.02089	4675.907	4761.96	-1.04504	0.39481	0.9569	4634.518	4444.51
0.50464	1.13314	214.1607	239.7178	1.07601	0.58324	1.07601	257.7748	276.9538
3.61E-06	0.65717	2668.609	1755.344	1.28449	0.00091	1.28449	1957.065	2513.314
0.05834	0.82551	2876.077	2381.022	1.31761	7.03E-08	1.31761	2827.063	3723.053
0.10526	1.07697	1314.555	1415.439	1.15813	0.00227	1.15813	1455.25	1685.308
0.80676	1.01985	902.223	915.6118	1.03221	0.59991	1.03221	945.5138	975.7641
0.63401	1.02627	1025.713	1053.802	-1.03005	0.69819	0.97083	923.842	894.2763
0.86597	0.96975	164.8802	159.8514	-1.15989	0.60712	0.86215	148.9645	128.3915
0.69445	1.03531	1371.395	1408.675	-1.01271	0.84761	0.98745	1412.812	1400.175
0.63525	0.97288	7868.273	7649.178	-1.16604	0.0367	0.85761	9657.813	8284.083
0.73178	1.02342	3497.575	3582.095	-1.47011	2.00E-07	0.68022	3381.526	2305.364
0.55285	1.05786	440.1608	465.1451	-1.11259	0.2611	0.8988	788.8195	711.5294
0.06242	0.68408	382.4334	254.3582	-1.11033	0.58176	0.90063	283.3626	255.6677
0.60081	0.81061	167.5929	148.2614	-1.48479	0.16499	0.67349	184.5559	122.7185
0.56067	0.89217	269.5899	245.4797	-2.00175	0.04927	0.49956	169.9708	83.45038
0.84034	0.87819	64.64804	59.73547	-1.01894	0.98013	0.98141	56.41061	55.83333
0.00022	0.66912	897.8779	596.627	1.08338	0.33941	1.08338	689.3778	748.8937
0.19871	0.8747	525.7889	462.701	1.02506	0.87555	1.02506	423.0867	437.2982
0.5138	0.86023	499.2271	412.7734	3.61373	7.04E-17	3.61373	514.4864	1879.438
0.00004	0.73509	1845.636	1354.599	-1.22663	0.01176	0.81524	1677.482	1369.963
0.77601	1.01201	3662.207	3707.37	-1.5419	1.71E-06	0.64855	3625.865	2345.638
0.24233	0.83856	409.8994	337.9897	1.24661	0.19977	1.24661	336.5111	415.3323
0.94246	0.99307	348.1733	346.212	1.12088	0.34387	1.12088	305.7377	342.7318
0.86987	0.9831	678.114	671.489	1.2004	0.03473	1.2004	590.7158	707.339
0.06337	0.69179	456.3522	308.0451	1.14844	0.25596	1.14844	376.9921	435.3876
0.29088	0.93497	1211.433	1134.017	-1.07795	0.19052	0.92769	1467.748	1360.156
0.17849	0.88607	542.1637	478.7806	-1.077	0.40706	0.9285	505.6145	469.8944
0.93134	1.01855	201.3664	204.4808	-1.01002	0.95531	0.99008	334.2186	327.5901
0.17933	0.83574	2462.441	2048.283	1.13229	0.29746	1.13229	1990.322	2266.522

0.54753	0.94776	1430.152	1356.05	1.55604	1.13E-14	1.55604	1213.325	1886.573
0.36876	1.0504	1570.648	1653.36	-1.10597	0.06341	0.90418	3824.065	3446.025
0.24195	1.07206	6699.318	7198.782	1.07927	0.10122	1.07927	6133.007	6620.058
0.08048	1.23743	2940.191	3694.173	1.70986	2.69E-09	1.70986	2623.338	4503.271
0.07881	1.2489	1360.393	1721.336	3.29709	0	3.29709	1156.321	3812.063
0.16834	0.81974	33100.45	27901.79	-1.04638	0.32329	0.95567	30541.93	29222.31
0.07536	0.75681	6045.793	4545.432	-1.73011	1.95E-06	0.578	3613.767	2064.04
0.10096	1.08546	1286.739	1398.089	-1.00928	0.85973	0.99081	1343.943	1330.551
0.1825	1.20158	3438.95	4182.557	1.2913	3.65E-06	1.2913	3023.452	3902.038
0.03002	0.75637	2918.284	2212.231	1.2985	0.00671	1.2985	2525.084	3290.324
0.4119	0.96093	2488.863	2392.153	-1.19008	0.00012	0.84028	3063.614	2576.406
0.23552	1.08287	2071.71	2255.218	-1.07378	0.29198	0.93129	2269.137	2110.345
0.07006	1.34215	231.1672	306.5239	1.27299	0.18696	1.27299	235.6129	296.8391
0.94453	1.00364	4397.401	4420.628	1.97077	1.36E-36	1.97077	4010.816	7908.308
0.32974	0.90453	327.4772	296.5826	1.01097	0.94626	1.01097	251.2026	255.1265
0.04319	1.1327	3703.308	4153.859	-1.08158	0.09165	0.92457	4919.186	4541.504
0.38035	0.88391	751.8376	656.9667	-1.0048	0.96156	0.99522	621.5293	620.804
0.2322	0.83009	617.8954	504.183	1.12302	0.32738	1.12302	566.9956	641.1339
0.9004	1.01109	668.7554	673.0647	1.02943	0.67431	1.02943	672.1215	692.1532
0.50173	0.83166	236.4929	187.7685	1.2712	0.15995	1.2712	190.605	243.0332
0.73828	0.95501	3307.423	3181.715	-1.23485	0.0093	0.80981	3654.112	2959.994
0.69316	0.97177	838.7834	817.8742	-1.02985	0.63526	0.97102	688.066	668.0969
0.95783	1.00395	556.6134	559.8441	-1.08931	0.4375	0.91802	486.1682	444.8245
0.07612	0.90725	1775.357	1609.433	1.34187	3.37E-11	1.34187	1768.838	2373.571
0.32161	1.04403	5155.136	5384.611	-1.00848	0.87069	0.99159	5613.266	5559.813
0.22258	0.85551	22893.65	19628.5	1.37275	0.00004	1.37275	20390.09	28011.55
0.09284	1.11743	1574.213	1765.225	1.01317	0.79855	1.01317	1688.634	1709.495
0.68949	1.03378	3310.572	3420.04	1.45055	0.00042	1.45055	3000.801	4376.573
0.31239	1.06413	1087.832	1156.023	1.28412	0.00008	1.28412	1111.963	1426.279
0.92608	1.03815	77.12531	79.47153	1.02647	0.96218	1.02647	67.40409	70.1978
0.42184	0.91336	1224.911	1125.732	-1.24504	0.00277	0.80319	989.8768	793.4406
0.76163	0.98003	2136.572	2097.894	1.60612	1.73E-17	1.60612	1967.453	3155.501
0.68069	0.96225	625.4544	604.796	1.21212	0.06111	1.21212	594.4177	717.4209
0.82817	0.96961	238.7955	231.0811	1.14946	0.34664	1.14946	255.2827	293.7715
0.98439	1.00261	356.6507	355.9153	1.14722	0.15494	1.14722	491.3702	564.211
0.94943	1.02855	62.9623	64.81486	-1.09491	0.90213	0.91332	51.68655	47.1266
0.74473	0.96134	714.307	681.1947	-1.55937	4.85E-06	0.64128	622.489	400.2938
0.16887	1.22217	226.6572	275.442	1.67815	2.38E-11	1.67815	376.6974	632.007
0.58793	0.94634	1976.651	1870.73	1.05927	0.48281	1.05927	1737.396	1843.356
0.49174	1.06063	444.3875	470.5144	1.05037	0.54228	1.05037	644.0334	675.8571
0.30479	1.0744	841.6039	901.392	-1.0043	0.93719	0.99572	876.0636	872.4932
0.02781	1.32823	23788.68	31240.72	-3.6823	3.29E-15	0.27157	37046.45	9746.234
0.55862	1.03803	1525.145	1584.68	2.42677	0	2.42677	1382.19	3355.645
0.85422	0.98693	622.06	615.0532	-1.09593	0.22747	0.91246	610.0862	557.3344
0.61416	1.05747	461.6257	491.8326	-1.27469	0.0083	0.7845	788.6013	619.8347
0.83421	0.95101	1438.953	1340.047	-2.86376	2.18E-15	0.34919	1791.371	634.6269
0.97759	1.00258	1152.411	1144.726	-1.03738	0.56785	0.96397	1143.167	1104.422
0.56167	1.07141	491.6596	522.2203	1.03808	0.70149	1.03808	481.4641	501.182
0.56524	1.07985	353.9418	378.5371	1.12249	0.44023	1.12249	303.1009	337.9741
0.02151	1.12731	818.7531	922.7505	1.2799	0.00166	1.2799	883.1862	1128.117
0.89681	0.97673	212.6619	207.589	-1.10789	0.51817	0.90262	213.4348	192.5743
0.0271	0.76355	2349.948	1784.822	1.03414	0.75516	1.03414	1910.034	1985.445

0.02022	1.13397	1906.922	2163.403	-1.52224	4.23E-07	0.65693	1848.672	1211.254
0.60744	0.91454	256.2209	231.549	1.45787	0.00623	1.45787	201.1894	293.3132
0.6379	0.96726	9690.174	9381.549	2.54288	4.09E-41	2.54288	9676.695	24624.21
0.69331	0.96901	1265.473	1228.779	-1.03565	0.56078	0.96558	1127.424	1089.999
0.00715	0.84374	3039.636	2568.007	-1.13754	0.032	0.87909	2794.74	2451.963
0.86049	0.94428	109.2563	103.3861	-1.13815	0.76284	0.87862	103.6491	89.41115
0.73267	0.90998	247.9778	236.0906	-2.17394	0.01813	0.45999	207.1632	94.44652
0.97893	1.01864	52.02575	53.29558	-1.06059	0.93232	0.94287	50.49971	47.57343
0.06365	1.0859	8208.419	8909.773	1.05126	0.44919	1.05126	10954.4	11510.8
0.52623	1.0489	587.8428	617.2305	-1.11363	0.10224	0.89796	1803.009	1615.759
0.19636	1.05915	4141.478	4388.967	-1.05569	0.25793	0.94725	4216.081	3994.217
0.90194	1.05825	75.69501	80.11671	1.01613	0.96563	1.01613	94.05952	95.53862
0.71985	0.96269	4027.878	3898.585	-1.47925	1.52E-08	0.67602	3862.511	2602.535
0.51998	1.04558	527.5978	551.2478	-1.032	0.63974	0.96899	566.0632	548.4904
0.42133	1.11658	277.0875	307.3473	1.15462	0.26688	1.15462	351.1499	407.9343
0.84407	0.9512	149.6116	141.9624	-1.10814	0.75305	0.90241	140.3496	124.8721
0.90077	0.99156	896.8054	887.5817	1.04935	0.45435	1.04935	815.7313	856.9475
0.74561	1.06173	163.6047	173.265	1.00401	0.98529	1.00401	184.6166	186.5368
0.31952	1.06866	605.1464	647.5287	1.03259	0.77235	1.03259	647.977	665.4213
0.54312	1.09869	254.3352	278.883	1.03479	0.80523	1.03479	239.2446	247.7678
0.4565	0.94686	816.2112	771.0101	1.07548	0.47797	1.07548	701.0012	757.2976
0.68	1.1282	102.0377	115.1115	-1.15734	0.72414	0.86405	125.6996	104.9509
0.6069	1.1339	197.0937	211.994	1.0461	0.70646	1.0461	315.0081	330.1211
0.33469	0.76636	437.1813	361.6494	-1.4516	0.07497	0.68889	548.462	363.4027
0.63077	0.83319	88.8817	73.92355	-1.38912	0.39368	0.71988	125.029	90.27472
0.07463	1.16651	843.4321	988.1276	-1.88308	4.84E-07	0.53105	720.6705	384.9914
0.10182	0.80136	30027.32	23807.89	2.85426	6.52E-30	2.85426	25043.32	71697.17
5.87E-06	0.75238	4693.276	3545.171	1.437	5.65E-12	1.437	4584.922	6586.908
0.07749	1.23922	244.2407	301.8633	1.08558	0.52118	1.08558	281.7933	305.4059
0.14075	0.89589	5256.305	4702.708	1.19764	0.00257	1.19764	4889.248	5856.24
0.5896	0.96702	1316.656	1275.216	1.28	0.00149	1.28	1345.503	1724.143
0.7292	0.85933	88.76118	78.13765	-2.0771	0.33037	0.48144	71.03471	33.76988
0.65382	0.97388	2108.724	2062.945	-1.17273	0.03058	0.85271	1914.26	1630.778
0.44372	0.90186	1438.54	1310.422	-1.07204	0.42926	0.9328	1009.385	943.9373
0.44472	1.0548	2078.894	2188.783	-1.04701	0.64681	0.9551	1731.669	1654.332
0.24341	0.893	2299.528	2060.865	-1.39012	1.03E-11	0.71936	1638.787	1179.157
0.68989	1.03888	1004.346	1040.201	2.31362	2.10E-44	2.31362	944.2219	2183.978
0.47208	1.05745	1363.885	1445.613	1.49975	0.00007	1.49975	1338.767	2013.006
0.59596	0.90757	263.7974	235.9929	1.24832	0.16637	1.24832	216.1857	269.2986
0.00101	0.81157	805.8403	654.3479	-1.15167	0.07908	0.8683	813.9365	705.3641
4.11E-07	0.56995	921.986	521.4051	-1.46226	0.00002	0.68387	676.6718	461.633
0.57917	0.92673	289.3884	266.9952	1.13717	0.12165	1.13717	437.6711	497.733
0.75502	1.01978	2173.184	2226.729	-1.16359	0.04137	0.85941	2404.538	2059.574
0.09265	0.7776	4954.017	3876.071	2.30069	6.48E-09	2.30069	4084.613	9624.75
2.94E-06	0.66695	1634.936	1089.576	-1.46403	5.09E-13	0.68304	1619.297	1105.833
0.95628	1.00377	1010.716	1011.058	-1.16094	0.00659	0.86137	1016.389	875.1348
7.51E-07	0.71897	3295.183	2363.677	1.13396	0.22347	1.13396	2704.341	3067.728
0.39602	1.04961	2195.31	2299.224	1.0278	0.59385	1.0278	2332.031	2402.151
0.00724	0.77002	787.7482	603.4273	-1.03292	0.65294	0.96813	705.6752	683.9035
0.00106	0.66693	717.6616	473.533	1.13993	0.05296	1.13993	576.6338	657.5303
0.98505	0.99823	448.2977	445.897	1.05936	0.62664	1.05936	420.0643	442.5323
0.44026	0.8939	979.4363	878.2144	-2.34688	6.24E-12	0.4261	747.726	320.2356

0.00056	0.74752	1855.208	1382.693	1.14252	0.20266	1.14252	1679.172	1919.167
0.9353	0.9952	2461.94	2456.724	-1.1077	0.14356	0.90277	2813.682	2531.206
0.06753	0.90211	1015.918	915.8461	-1.03752	0.60514	0.96384	930.2282	895.2676
0.3078	1.12888	437.8107	498.9334	1.32611	0.00102	1.32611	812.8044	1073.598
0.97721	1.03529	29.306	29.32068	1.71157	0.77761	1.71157	17.32054	32.09644
0.43853	1.04939	9873.955	10370.84	1.44378	3.04E-12	1.44378	9265.059	13371.52
0.64986	1.18491	81.17505	96.44075	1.26185	0.5627	1.26185	77.77451	97.98526
0.83826	0.96846	176.3393	170.7606	1.09346	0.66983	1.09346	154.8844	169.3586
0.21732	0.87228	1007.621	873.2591	1.41747	0.00011	1.41747	821.4708	1168.723
0.72056	0.95109	505.4724	486.4996	1.17288	0.11033	1.17288	428.9226	502.7786
0.73668	0.96749	6218.08	6035.882	1.64109	0.00013	1.64109	5216.761	8693.209
0.52836	1.055	510.4927	540.2893	-1.003	0.97614	0.99701	542.7806	542.5054
0.9397	1.00731	493.8923	495.2041	1.40934	0.02356	1.40934	333.1293	472.3137
0.67896	0.96377	394.777	380.7433	-1.03668	0.51758	0.96462	849.0853	819.129
0.83924	0.89131	79.90469	76.41969	-1.62562	0.30286	0.61515	94.35028	57.83019
0.01338	0.82273	6600.378	5445.267	1.07948	0.32372	1.07948	5969.261	6437.51
0.00155	0.80333	1207.353	968.4636	4.1725	1.73E-23	4.1725	1037.299	4423.945
0.08371	1.1044	3664.693	4039.19	-1.28222	4.52E-06	0.77989	4422.277	3445.091
0.03059	1.33613	3772.919	5023.57	-2.07535	0.00001	0.48185	7342.003	3390.599
0.65019	0.97144	900.0033	875.515	-1.10759	0.21629	0.90286	806.9674	727.0648
0.94216	0.98575	169.7098	167.5104	-1.06539	0.82898	0.93862	145.8301	137.319
0.0071	0.88108	4707.581	4145.375	-1.11012	0.06649	0.9008	4959.783	4465.042
0.01042	0.88852	3166.621	2813.102	1.12307	0.00553	1.12307	2779.503	3121.592
0.75907	1.02374	4273.706	4354.097	-1.02271	0.70533	0.97779	4330.903	4248.371
0.17504	1.06713	4941.147	5268.677	1.01579	0.70929	1.01579	5598.966	5685.831
0.00035	0.74511	7078.456	5280.261	1.3073	1.28E-07	1.3073	5738.408	7501.757
0.6164	0.94857	386.263	365.9609	1.06324	0.57118	1.06324	357.8295	381.0273
0.84302	1.05928	15837.18	15473.88	-20.94284	4.34E-36	0.04775	23944.13	1115.656
0.76258	0.9365	314.4647	301.5948	-1.56993	0.06119	0.63697	224.8901	144.9908
3.90E-15	0.59457	2025.774	1208.526	-1.87347	0	0.53377	1805.807	963.8431
0.32325	1.06732	1628.381	1747.199	-1.06744	0.24432	0.93682	1868.404	1748.179
0.41833	1.05866	12324.9	13091.89	-1.19432	0.01045	0.8373	12401.92	10383.5
0.5316	0.95336	675.5211	644.3334	-1.09593	0.24041	0.91246	1305.959	1195.306
0.99241	1.00108	501.1993	505.782	-1.25658	0.07919	0.79581	496.884	392.7844
0.08409	0.80681	2914.94	2339.527	1.04502	0.67904	1.04502	2556.842	2675.638
0.0088	0.8227	884.2911	725.9963	1.24843	0.00172	1.24843	818.9013	1021.093
0.33744	1.07406	1811.157	1944.833	1.74353	2.79E-10	1.74353	1541.39	2694.263
0.47674	1.06217	12366.13	13053.81	1.25235	0.00165	1.25235	11776.47	14734.96
0.25879	1.06456	1424.951	1515.314	-1.1471	0.02452	0.87176	1592.392	1390.541
0.13612	0.92377	7750.696	7167.646	1.12355	0.12641	1.12355	8443.66	9443.299
0.33107	1.21087	203.3234	245.5985	1.35381	0.11701	1.35381	205.0114	278.6105
0.11532	0.89416	3731.376	3327.633	1.09958	0.07542	1.09958	3636.437	3997
0.47995	0.94923	1876.116	1776.281	-1.01012	0.87151	0.98998	1817.073	1797.827
0.65683	1.03008	556.7352	573.3554	-1.02488	0.80619	0.97573	532.0647	517.1692
0.91728	0.9946	5173.528	5133.129	-1.07549	0.0859	0.92981	5065.095	4712.277
0.91095	1.01201	621.7865	625.2434	1.41881	8.49E-08	1.41881	715.0985	1015.563
0.75193	1.02101	2585.306	2643.639	1.01101	0.82558	1.01101	2352.049	2378.086
0.88778	0.97664	184.4851	179.7717	-1.10348	0.65897	0.90623	171.668	155.5351
0.85878	0.93043	96.349	88.32127	-1.17388	0.60446	0.85188	110.2163	94.00296
0.11705	0.80933	1129.617	907.5652	2.21671	6.06E-23	2.21671	813.9843	1813.372
0.11006	1.1189	612.9074	686.9992	1.59656	4.67E-07	1.59656	731.7506	1164.803
0.52179	0.94792	695.5191	661.829	-1.26908	0.01539	0.78797	820.5627	643.6979

1.29E-14	0.65252	19918.63	12978.92	-1.17891	0.00005	0.84824	19525.85	16562.63
0.1915	1.07981	2296.408	2480.877	1.84315	6.76E-19	1.84315	2104.459	3882.448
0.38886	1.07069	669.5471	715.098	1.3904	3.37E-07	1.3904	570.5386	793.3554
0.00608	0.81588	6837.427	5569.756	-1.07478	0.2345	0.93043	6049.897	5630.555
0.15805	1.06218	3194.22	3392.067	1.0652	0.23378	1.0652	3291.331	3500.414
0.15078	0.89362	954.9177	854.5934	1.47484	0.00821	1.47484	780.1039	1149.011
0.82732	1.01485	746.2626	756.2027	1.19109	0.01721	1.19109	667.2789	793.4776
0.07514	0.77441	923.3496	707.8915	-1.23454	0.14631	0.81002	997.2593	812.6572
0.98557	1.0021	2817.456	2818.259	1.19962	0.00259	1.19962	2093.441	2513.629
0.96823	1.0029	955.0737	961.9984	-1.12928	0.17862	0.88552	901.2826	795.4094
0.02082	1.41175	510.5483	712.9293	2.87954	8.41E-45	2.87954	525.6427	1514.736
0.08212	0.84561	1993.983	1685.913	2.90581	1.69E-18	2.90581	1875.183	5498.528
0.00019	0.68823	5897.109	4049.984	-1.19196	0.01182	0.83896	4627.902	3879.99
0.93831	0.99032	275.2997	271.7662	1.107	0.44656	1.107	259.3196	286.517
0.80208	1.01494	14412.6	14651.5	1.19239	0.00008	1.19239	14390.72	17168.74
0.06089	0.83386	762.1536	639.2368	-1.03979	0.76299	0.96173	646.8817	617.6558
0.88022	0.94121	95.01296	87.53386	1.37482	0.32063	1.37482	91.78374	126.1595
0.00557	0.86012	777.2273	668.5402	1.01403	0.88409	1.01403	714.6488	721.9941
0.54753	1.03774	2165.491	2238.391	-1.04166	0.51419	0.96	2102.484	2026.612
0.81913	0.98899	7100.005	7015.195	1.0092	0.86183	1.0092	7533.804	7594.069
0.26276	0.93	5385.545	5006.211	1.03292	0.74677	1.03292	5618.395	5805.043
0.22777	1.09499	582.7916	639.3236	-1.18506	0.03417	0.84384	1421.798	1196.145
0.97509	0.99792	624.8925	623.7955	1.53161	2.97E-11	1.53161	559.6863	857.6179
0.49118	1.07371	668.7947	713.1296	1.1008	0.0996	1.1008	734.8153	809.0623
0.89569	0.98642	1236.568	1221.297	1.384	3.20E-11	1.384	1068.936	1479.279
0.8258	0.91726	99.76208	89.85902	1.20493	0.55517	1.20493	109.5477	131.771
0.75553	1.05098	274.2087	284.7868	2.01468	2.69E-07	2.01468	257.5552	515.3392
0.49247	0.93748	4327.361	4069.781	1.61899	3.94E-14	1.61899	3786.644	6134.328
0.66548	0.9302	284.3799	268.399	1.26901	0.21664	1.26901	267.3102	335.3868
0.2884	1.08398	2213.609	2405.285	1.65538	1.96E-09	1.65538	1941.714	3226.817
0.2674	1.07704	736.1343	792.1289	1.32843	0.01514	1.32843	659.4143	872.0573
0.00862	0.71847	3524.395	2511.539	-1.03522	0.74368	0.96598	2730.917	2650.648
0.6506	0.90768	199.6737	183.0466	1.0311	0.85287	1.0311	277.226	283.7208
0.11118	1.09605	1777.791	1942.877	-1.01722	0.7459	0.98307	2960.531	2917.17
0.67118	1.03407	742.1355	764.431	1.01893	0.76031	1.01893	802.6928	817.3689
0.26536	1.05319	1768.651	1864.307	1.02308	0.74201	1.02308	1856.375	1893.552
0.50471	1.06903	8609.752	9271.881	-1.34399	0.00363	0.74405	9825.734	7284.576
0.05647	0.88965	3367.297	2997.261	1.10564	0.07174	1.10564	2878.112	3185.498
0.97132	0.99556	404.3944	399.4178	-1.02327	0.82939	0.97726	422.6359	414.2852
0.02976	0.75035	500.6315	370.932	1.28111	0.00695	1.28111	432.2743	552.8149
0.00527	1.18352	2161.972	2561.321	-1.07111	0.25027	0.93361	2823.233	2631.374
0.13701	1.34792	291.7653	382.2484	3.59463	7.33E-19	3.59463	251.8628	914.0526
0.35973	0.75435	143.0721	106.1305	1.28241	0.45224	1.28241	99.06422	126.1442
0.87967	0.98683	23161.88	23053.85	-1.37288	0.00008	0.7284	25318.35	18363.82
0.94476	0.99524	1266.859	1256.248	-1.03601	0.48347	0.96524	1318.635	1273.332
0.87179	1.01805	607.2861	622.4034	1.19178	0.0096	1.19178	713.4119	849.2412
0.54241	0.96798	2568.137	2483.888	-1.01762	0.74298	0.98268	2542.963	2497.199
0.58524	0.9597	9404.979	9040.394	-1.13806	0.00338	0.87869	8587.41	7546.457
0.99291	0.99887	491.5734	485.7958	1.09316	0.47782	1.09316	417.3353	453.7352
0.15867	1.1718	342.3431	401.8568	1.29839	0.01677	1.29839	367.061	474.9998
0.10749	0.87251	2261.586	1963.709	4.97875	0	4.97875	2083.937	10381.68
0.62082	1.04673	325.8705	340.8826	1.0764	0.55141	1.0764	305.1386	328.1322

0.40741	0.92091	2333.758	2141.554	1.29824	0.00063	1.29824	2165.592	2820.319
0.29051	0.90554	724.226	652.7202	1.19182	0.07003	1.19182	654.673	777.3342
0.55029	0.9033	275.2664	252.1536	-1.19015	0.36795	0.84023	248.7839	207.115
0.37644	1.0815	2937.98	3185.003	-1.26779	4.34E-06	0.78877	3443.973	2716.322
0.28662	0.83592	395.6001	324.0079	1.46669	0.00014	1.46669	364.1089	534.6896
0.23269	1.1765	239.3602	280.4216	1.10383	0.37582	1.10383	287.0768	316.9479
0.69008	1.03114	1116.952	1156.208	1.28317	0.00064	1.28317	1049.905	1345.001
0.14503	1.07997	4067.318	4374.468	-1.01164	0.81115	0.98849	4070.1	4019.792
0.64474	1.04918	522.2444	546.4054	-1.06034	0.37335	0.94309	743.4584	701.5582
0.09736	1.10397	3046.316	3369.202	1.01291	0.84484	1.01291	3520.136	3564.076
0.10522	1.24684	17294.55	21541.09	-2.25471	8.26E-06	0.44352	26608.8	11275.56
0.35947	0.93566	1413.23	1327.856	-1.3012	0.00009	0.76852	1210.62	931.702
0.78062	1.03958	224.8632	233.5759	1.12824	0.53057	1.12824	208.1034	233.0328
0.54946	1.04441	762.1519	798.3939	-1.07391	0.3557	0.93118	730.2477	678.8162
0.7251	0.94234	265.9723	253.7375	-1.19583	0.32893	0.83624	232.0097	194.973
0.00231	1.20612	739.3408	890.5275	1.00903	0.88912	1.00903	858.2117	865.0088
0.06603	0.88516	6411.157	5665.581	-2.04282	2.29E-38	0.48952	5691.483	2783.913
0.79912	0.90612	122.1902	114.035	-1.01717	0.96721	0.98312	85.74261	84.25795
0.13207	0.92805	14207.03	13158.83	1.01334	0.85795	1.01334	11816.91	11962.11
0.70066	1.04108	1096.023	1138.527	1.0257	0.80944	1.0257	895.6076	922.6173
0.35364	1.08962	659.0866	722.0754	-1.05185	0.44195	0.95071	611.1513	580.9951
0.87219	0.98425	574.5933	566.7993	1.05009	0.56327	1.05009	1330.703	1389.537
0.62198	1.02849	1780.847	1839.501	1.05084	0.48981	1.05084	1728.259	1807.643
0.51368	1.06132	1195.035	1282.605	-1.07462	0.20729	0.93056	2734.485	2550.527
0.00158	0.73069	1894.74	1378.45	-1.22706	0.00044	0.81496	1347.301	1098.988
0.28358	0.85568	452.1094	381.2728	1.35413	0.00456	1.35413	394.3737	535.8359
0.12875	0.3756	82.79068	30.90307	1.93688	0.30614	1.93688	40.20303	77.68491
0.92654	0.99106	2642.112	2626.934	-1.25738	0.00012	0.7953	2942.997	2342.846
0.88773	0.99037	1813.856	1793.339	-1.69014	2.51E-10	0.59167	1841.979	1088.375
0.72445	1.09481	153.0583	165.3733	1.66236	0.0943	1.66236	130.8024	212.3756
0.44011	0.94267	515.0118	484.8937	-1.13882	0.33478	0.8781	548.6389	484.566
0.12288	1.24872	1223.275	1491.037	-2.27561	5.51E-09	0.43944	2753.529	1178.524
0.08199	0.79479	7905.71	6274.827	-1.76865	4.86E-07	0.5654	6004.334	3379.295
0.03402	0.87383	1667.066	1454.276	-1.42151	4.54E-07	0.70348	1695.802	1193.118
0.01008	0.73619	15048.5	11091.9	-1.24625	0.00765	0.80241	13217.34	10589.42
0.98963	0.9981	310.6238	313.194	-1.17615	0.39312	0.85023	280.0841	240.4796
0.00447	0.8505	1442.534	1228.069	1.01904	0.70497	1.01904	1337.212	1362.476
0.70446	1.03186	491.8804	506.5041	1.3735	0.00035	1.3735	440.2447	604.2212
0.93505	0.95589	62.71272	61.01825	1.04032	0.9633	1.04032	34.01502	40.58949
0.60693	1.03203	1022.278	1057.711	-1.05077	0.54302	0.95168	938.3533	889.8167
0.01785	0.83702	1771.277	1472.438	-1.83914	6.30E-21	0.54373	1769.361	962.6742
0.04487	1.09981	1124.274	1236.74	1.02325	0.75877	1.02325	1294.574	1320.168
0.85721	0.96366	135.8255	130.931	-1.125	0.78704	0.88889	114.6404	100.3172
0.73014	1.03573	917.5289	957.7505	-1.08504	0.30736	0.92163	915.4533	841.7824
0.56449	1.03619	2095.281	2175.521	1.03741	0.61494	1.03741	2243.87	2326.962
0.70774	0.90023	110.1494	99.44266	-1.12773	0.77304	0.88674	112.7148	97.93196
0.6472	0.86672	124.8062	107.1185	1.32405	0.41833	1.32405	144.2441	185.5956
0.81488	0.93128	132.6609	126.2269	-1.48943	0.44845	0.6714	104.1853	69.0267
0.00216	0.87945	7565.936	6653.043	-1.17094	0.10688	0.85401	5486.938	4666.618
0.93691	1.00452	897.9357	903.0237	-1.1	0.11509	0.90909	953.3019	866.0886
0.13586	0.87003	17136.77	15065.27	1.03281	0.61491	1.03281	17711.11	18270.88
0.08313	0.86128	4674.787	4028.862	-1.60403	4.04E-10	0.62343	4256.334	2646.796

0.42359	0.87707	2041.802	1776.607	1.13862	0.24464	1.13862	1650.098	1883.755
0.56729	1.03778	1603.041	1661.059	1.09149	0.12849	1.09149	1651.371	1805.043
0.83704	0.98225	600.9874	588.0044	-1.04641	0.52678	0.95565	646.0458	616.8322
0.30956	1.07369	10113.91	10625.78	-1.05638	0.538	0.94663	14168.02	13298.24
0.89544	1.01064	6611.792	6677.568	-1.49531	2.74E-14	0.66876	6350.186	4245.981
0.9984	1.00022	341.931	342.092	1.0788	0.41777	1.0788	351.7435	379.5908
0.14199	0.79138	4279.077	3358.693	-1.32647	0.03095	0.75388	4394.652	3239.563
0.09559	0.86456	9395.793	8127.802	-1.02601	0.79054	0.97465	7510.313	7377.159
0.60999	1.16458	108.0593	127.1387	1.02251	0.95235	1.02251	95.8968	97.61789
0.00079	0.58068	5019.683	2835.997	-1.54079	0.00012	0.64902	3709.353	2412.969
0.72008	0.94963	1031.511	974.9028	1.3067	0.00424	1.3067	919.0775	1207.298
0.00534	0.85981	876.4603	753.5913	1.14735	0.08087	1.14735	783.7336	897.5252
0.05676	1.20704	2211.79	2667.141	-2.01912	5.11E-08	0.49526	3520.274	1709.025
0.96221	1.00713	315.2695	315.0549	-1.05744	0.66968	0.94568	294.9841	279.3616
0.40994	1.11907	843.62	953.0832	-3.54827	7.36E-33	0.28183	872.6922	245.3543
0.45955	1.03032	8037.587	8281.484	-1.05012	0.27152	0.95227	6658.312	6338.805
0.44735	1.06178	900.0627	952.594	-1.02735	0.69215	0.97338	958.8324	935.1617
0.007	0.81482	1858.713	1515.248	1.37192	4.48E-11	1.37192	1577.569	2163.846
0.19003	1.08173	2553.081	2753.731	-1.17852	0.00216	0.84852	2612.649	2217.948
0.89202	1.03974	113.6613	117.0659	1.11392	0.70474	1.11392	110.8283	123.3089
0.30574	0.91606	1043.917	953.1036	1.25586	0.00484	1.25586	947.5631	1193.615
4.55E-09	0.56192	4067.448	2284.261	1.27955	0.00757	1.27955	2860.17	3669.674
0.12436	0.70637	261.0263	179.5446	1.17839	0.2396	1.17839	224.5746	264.506
0.64649	1.15498	32412.27	35786.06	-16.91439	5.08E-33	0.05912	52301.31	3030.29
0.24224	1.13662	300.9812	342.3506	1.44894	0.00796	1.44894	306.0122	440.4232
0.7075	0.97959	774.178	758.1209	-1.07437	0.38264	0.93078	637.311	592.0292
0.776	1.07129	182.0962	199.2628	-1.03085	0.89476	0.97007	178.2827	171.7157
0.47796	0.93018	1124.87	1042.514	-1.07694	0.28721	0.92856	1404.419	1305.485
0.77025	1.01563	13839.17	14049.27	2.69847	0	2.69847	14056.7	37980.77
0.8462	0.98864	3243.745	3227.449	-1.2071	0.00001	0.82843	2934.713	2431.719
0.70768	1.02118	9067.337	9261.827	-1.06061	0.26224	0.94285	9198.682	8677.238
0.6373	0.93139	572.7502	541.14	2.65293	2.74E-33	2.65293	462.6762	1228.906
0.00455	0.71187	767.502	541.0953	-1.78571	1.84E-08	0.56	705.6364	396.5297
0.45849	1.0608	783.2977	829.7701	3.11644	4.19E-16	3.11644	729.7222	2296.071
0.46466	1.10418	284.5764	313.8593	1.05308	0.68109	1.05308	374.1138	391.7156
0.56783	1.22847	71.78477	87.84406	-1.38138	0.56359	0.72391	80.41876	57.61875
0.28085	1.06808	1059.428	1134.636	-1.02546	0.76163	0.97517	1021.565	995.2429
0.87787	0.97969	246.1427	240.4701	-1.02878	0.8537	0.97202	263.0592	254.6968
0.02184	1.18583	3243.415	3784.531	1.29259	0.00002	1.29259	4328.915	5583.75
0.17845	1.07945	1832.388	1984.963	1.09293	0.11174	1.09293	2211.574	2413.147
0.00003	0.7523	761.1575	571.9349	-1.81622	0.00001	0.55059	602.2749	334.2346
0.60705	1.07624	297.382	317.3061	-1.20592	0.16191	0.82924	386.0164	320.9345
0.75574	1.01436	3548.918	3597.153	-1.08205	0.16207	0.92417	4041.365	3726.164
0.29175	0.89976	596.2095	533.2509	1.45766	4.68E-08	1.45766	560.1032	815.871
0.10453	1.08176	4169.143	4519.592	1.03536	0.49886	1.03536	4121.566	4264.035
0.3119	0.868	13272.75	11475.16	-1.27017	0.07878	0.7873	14506.7	11216.69
0.02975	1.11294	1816.371	2022.329	1.04574	0.33066	1.04574	2240.041	2341.671
0.37961	1.03812	3705.585	3845.277	-1.02767	0.56009	0.97308	3899.761	3792.165
0.34791	0.94967	2346.212	2228.251	1.15543	0.10634	1.15543	2021.002	2336.804
0.61599	0.77355	96.61805	79.89175	-1.05238	0.9433	0.95023	68.64397	63.48412
0.00007	0.6937	1959.584	1354.46	-1.32948	0.00079	0.75217	1597.913	1203.201
0.96221	0.99619	685.7766	685.1553	-1.68774	1.29E-06	0.59251	779.9191	459.5927

1	1	18.70907	24.11738	1	1	1	18.57566	31.90047
0.58422	1.04954	387.3876	405.9972	-1.17762	0.07735	0.84917	416.387	353.4854
4.91E-07	0.54301	740.3336	397.9354	-1.23376	0.00784	0.81053	574.6166	465.4061
0.71227	1.04476	365.0483	379.1177	-1.02515	0.81922	0.97547	392.0104	382.3636
0.25957	1.04855	2673.363	2802.942	-1.14111	0.03395	0.87634	2384.172	2075.612
0.00428	0.75862	3955.139	2991.916	1.39772	0.00027	1.39772	3393.793	4764.953
0.39795	0.92747	2064.533	1932.714	-1.30377	0.00324	0.767	1897.395	1443.484
0.43564	1.05126	917.2991	962.0845	1.14288	0.0465	1.14288	935.9676	1067.517
0.00142	0.79633	5786.537	4614.118	1.00492	0.9336	1.00492	4794.771	4817.959
0.48109	0.96497	1049.655	1012.796	1.09988	0.09642	1.09988	970.9538	1068.271
0.55617	1.07063	361.4266	387.7447	1.04584	0.64296	1.04584	477.0015	497.6698
0.0205	1.1413	1388.798	1588.272	1.1815	0.01334	1.1815	1494.977	1764.055
0.10743	1.2401	321.1227	394.3001	1.4182	0.00044	1.4182	302.0615	428.1517
0.00221	0.65994	1384.645	903.7875	1.36116	0.0257	1.36116	992.2767	1369.839
0.84512	1.02713	342.4426	354.6534	-1.08273	0.65957	0.92359	337.8329	306.9081
0.68235	1.03932	791.5288	820.3662	-1.00979	0.88447	0.9903	710.6035	704.2453
0.48309	0.95228	547.8022	521.7806	-1.16018	0.19765	0.86194	469.2119	402.4228
0.91553	1.05584	75.88477	84.67204	-1.04197	0.89884	0.95972	114.0679	108.8006
0.74702	1.04211	275.7882	288.6169	1.04864	0.78316	1.04864	277.0099	287.8143
0.08427	1.24526	390.4933	481.1268	-1.00883	0.94165	0.99125	347.0906	344.4561
0.02064	0.80808	2458.503	1992.173	1.00316	0.97922	1.00316	2190.999	2183.953
0.01636	0.81996	2910.629	2387.916	-1.01043	0.86213	0.98968	2619.941	2595.124
1	1	19.19849	24.94219	1	1	1	17.33167	31.38706
0.07255	0.71519	219.3084	155.8989	-1.08371	0.69828	0.92275	169.1851	155.7776
0.02996	0.81718	1398.236	1150.217	1.00999	0.86654	1.00999	1306.977	1318.052
0.23891	0.90039	856.506	767.2783	1.55445	6.31E-12	1.55445	810.5054	1261.424
0.7722	1.01956	2435.568	2495.043	1.1105	0.02946	1.1105	2267.77	2517.897
0.4214	1.03982	4294.221	4463.293	-1.08843	0.15308	0.91876	4449.809	4088.799
0.87155	1.03862	219.0082	235.7278	-2.03923	0.00177	0.49038	210.4153	102.9123
0.96769	1.02998	56.89764	57.27919	-1.4272	0.59467	0.70067	63.55077	44.59285
0.76449	1.04961	209.933	221.3656	-1.06461	0.77599	0.93931	215.9931	200.214
0.14073	0.86123	637.1381	551.0029	-1.09867	0.3953	0.91019	797.6722	721.6842
0.64892	1.1808	84.15016	98.19592	1.03798	0.96038	1.03798	65.43382	65.32083
9.11E-08	0.60088	3594.771	2146.166	-1.05948	0.40309	0.94386	2735.812	2582.669
0.98527	0.99832	770.8775	771.0536	-1.11938	0.1232	0.89335	1078.593	962.192
0.35714	0.88375	758.9126	663.1838	1.58658	0.00112	1.58658	709.7571	1138.048
0.1773	0.85112	1977.889	1682.96	1.03326	0.72868	1.03326	1722.748	1785.178
0.48608	1.11272	253.0577	279.823	1.33243	0.04873	1.33243	245.8399	327.9741
0.00006	0.80617	1381.167	1113.801	-1.26353	0.0057	0.79143	1116.706	886.1337
0.26977	0.91723	23282.07	21496.37	1.08764	0.21986	1.08764	28809.46	31235.67
7.02E-06	0.76363	3867.774	2956.173	-1.05019	0.34138	0.95221	3362.814	3201.9
0.03673	0.74043	872.4364	634.2265	-2.6791	0.00143	0.37326	283.223	109.9778
0.71015	0.97853	1634.039	1595.746	1.16346	0.0035	1.16346	1515.184	1763.365
0.60253	1.02585	1730.345	1777.542	1.02505	0.68034	1.02505	1841.756	1887.316
0.67189	1.05558	122711.3	129816	-1.31935	0.00445	0.75795	145427.4	110789.3
0.49313	0.95089	7527.015	7190.004	-1.46386	0.0002	0.68312	7338.155	4988.108
0.00986	0.76116	9303.524	7045.12	-1.02745	0.73889	0.97328	8034.496	7842.541
0.006	1.15334	1371.847	1581.906	1.16402	0.05981	1.16402	1420.961	1648.763
0.15786	1.0593	7391.732	7830.734	-1.03385	0.5343	0.96726	8392.755	8110.919
0.64212	0.96213	1306.281	1260.441	-1.36185	0.00012	0.7343	1165.412	854.7349
0.91811	1.00999	525.8909	528.6101	1.16862	0.04857	1.16862	458.0168	535.4311
0.58603	0.93388	728.7841	674.6553	1.27219	0.0001	1.27219	645.9718	821.9674

0.33968	1.05465	11953.13	12651.94	2.2869	4.30E-38	2.2869	11822.49	27067.77
0.79255	0.94094	232.3164	225.5691	-1.29755	0.22549	0.77068	310.3384	237.0557
0.62529	0.95686	1006.95	961.7498	1.27739	0.00031	1.27739	875.6055	1119.861
0.61562	1.04902	399.7487	420.6257	-1.0503	0.67338	0.95211	414.7904	393.1916
0.95958	0.99694	1930.242	1929.27	-1.37759	1.38E-09	0.72591	1972.375	1432.019
0.35276	1.0682	690.5847	736.2335	1.41797	1.53E-06	1.41797	669.8429	948.2913
0.11562	0.59717	321.5007	179.2731	-1.16194	0.51522	0.86063	230.8636	201.1627
0.01808	1.16216	5047.124	5842.459	-1.3432	0.00021	0.74449	6471.433	4778.729
0.19176	0.63769	170.1879	114.317	-2.25195	0.18943	0.44406	115.5288	49.30038
0.41451	1.03776	4196.738	4357.206	1.12952	0.00998	1.12952	4048.807	4574.891
0.67607	1.01912	1643.376	1674.169	-1.03259	0.64781	0.96844	1611.211	1551.427
0.71697	1.10771	103.8133	114.7259	1.18859	0.57245	1.18859	108.4761	128.8614
0.33905	1.06068	2539.68	2696.768	1.36549	3.05E-08	1.36549	2889.115	3943.68
0.7034	0.95519	296.941	283.4945	1.02856	0.8753	1.02856	244.6515	249.6325
1	1	18.50093	24.99168	1.16341	0.88143	1.16341	24.20749	40.83308
0.01083	0.89436	7820.72	6995.477	1.19208	0.00527	1.19208	7624.416	9085.111
0.58849	0.96495	930.1655	895.2966	1.07281	0.21399	1.07281	806.5657	865.5646
0.11681	0.80111	6220.561	5005.938	1.06609	0.51067	1.06609	5512.016	5881.277
0.00324	0.79021	475.3601	375.4897	1.00705	0.94657	1.00705	411.7116	413.6083
0.22831	1.06435	9835.193	10488.31	1.45378	5.67E-18	1.45378	11206.43	16286.43
0.55877	1.04554	678.946	708.0947	1.07656	0.3273	1.07656	597.7547	644.3993
0.11391	1.08568	2145.437	2324.854	1.02754	0.52624	1.02754	4966.755	5103.59
0.12257	1.09784	1126.17	1233.628	-1.0607	0.3623	0.94277	1413.97	1328.482
0.02659	0.91249	3882.012	3542.487	1.1252	0.008	1.1252	3667.432	4125.131
0.08183	1.15299	890.4097	1031.707	-1.09408	0.11536	0.91401	968.4615	884.9345
0.66316	1.09915	189.3687	207.7296	-1.12052	0.50247	0.89244	338.1989	297.3567
0.03327	1.11393	1346.261	1501.166	1.04559	0.42444	1.04559	1548.511	1617.693
0.37432	1.06789	878.6532	935.5487	-1.11551	0.05682	0.89645	856.3679	767.5436
0.4909	0.95658	1650.71	1573.354	-1.07712	0.17505	0.9284	1499.53	1392.502
0.10431	0.84505	4078.229	3446.792	1.13376	0.084	1.13376	3914.169	4454.218
0.53007	0.81477	159.9419	143.2479	-1.78515	0.41221	0.56018	67.69704	38.08001
0.03378	1.11832	12190.78	13638.05	-1.6144	0.00006	0.61943	14930.84	9129.726
0.96009	1.00367	3144.837	3152.097	1.16288	0.00566	1.16288	2939.16	3419.467
0.7964	0.97717	512.4702	502.5988	-1.04122	0.63885	0.96041	489.2918	470.235
0.74715	0.94677	339.0705	329.2219	-1.06499	0.73379	0.93897	310.4688	295.1256
0.38117	0.84351	490.7114	421.4218	-1.56846	0.04447	0.63757	328.7069	213.9181
0.06549	0.88195	1807.622	1594.055	1.03782	0.71935	1.03782	1595.695	1650.861
0.7043	0.97615	951.2371	926.812	1.43979	8.79E-08	1.43979	859.252	1239.072
0.43673	1.04644	7550.571	7920.522	1.77588	9.62E-18	1.77588	6622.621	11775.25
0.54493	1.03252	1229.364	1269.761	-1.09236	0.11759	0.91545	1248.108	1141.281
0.94811	0.9948	986.9044	976.9786	1.0038	0.96668	1.0038	853.0397	859.7697
0.15711	0.83715	2340.974	1949.576	1.77314	1.31E-07	1.77314	2021.051	3619.196
0.47982	1.54323	46.31541	69.60619	2.24567	0.32308	2.24567	30.0384	65.95485
0.06713	1.16075	462.5053	536.0222	-1.56014	0.0001	0.64097	491.4534	316.1508
0.18749	0.92202	38366.44	35462.23	-1.0654	0.2148	0.93861	38594.2	36237.15
0.53104	1.04352	901.342	943.5239	-1.02929	0.68334	0.97155	933.1552	905.279
0.20192	0.9059	1480.825	1336.616	1.11279	0.10388	1.11279	1212.67	1352.75
0.09537	0.77712	247.9041	191.9556	1.07983	0.66992	1.07983	199.3067	215.6425
0.52593	1.04971	1823.065	1914.219	1.06576	0.24914	1.06576	1790.107	1910.691
0.42253	1.05403	1483.636	1565.341	-1.1614	0.03053	0.86103	1395.547	1201.052
0.02772	0.87241	664.503	579.9349	-1.03647	0.69952	0.96481	579.0222	556.9465
0.15012	1.12908	13927.27	15682.25	-1.53313	2.02E-07	0.65226	15893.82	10364.39

0.30353	0.91374	497.9941	453.7446	-1.03813	0.77224	0.96327	467.4912	452.7767
0.00081	0.67086	1009.128	671.8921	1.063	0.48616	1.063	832.4964	887.6558
0.1079	1.15502	764.4367	887.8007	1.45173	0.00378	1.45173	741.8742	1075.936
0.43756	1.06028	982.1851	1040.758	1.05105	0.56977	1.05105	816.567	855.4843
0.5281	1.04121	924.3974	965.0024	-1.14673	0.1113	0.87204	889.2744	772.6404
0.00106	1.20381	881.2184	1059.801	1.10633	0.1272	1.10633	1041.81	1151.547
0.25743	1.12218	622.6429	695.2494	1.124	0.11341	1.124	592.6736	666.8428
0.30549	1.07774	803.1257	862.9686	-1.09517	0.0948	0.9131	952.3546	869.7179
0.02873	0.54171	217.4644	114.4642	-1.60979	0.0739	0.6212	189.7636	116.8957
0.02129	0.83817	867.042	728.3582	-1.08602	0.3708	0.9208	732.0974	676.2694
0.00071	1.24642	1121.068	1401.734	-1.28356	0.00049	0.77908	1490.737	1153.99
0.50374	0.77081	128.9934	104.2008	-1.47916	0.30897	0.67606	120.6953	81.90815
0.33483	0.91106	743.2523	679.2826	-2.53708	5.22E-08	0.39415	771.3695	304.741
0.64283	0.9236	272.1724	255.2243	-1.39392	0.1079	0.7174	333.4456	240.0443
0.65148	0.93921	260.6892	243.7809	1.00908	0.95432	1.00908	224.598	227.033
0.44862	0.92595	1893.622	1745.21	1.38552	0.0007	1.38552	1642.12	2292.346
1	1	18.08548	24.27589	1	1	1	18.06102	31.68079
0.75623	0.90781	115.8732	106.1667	1.10599	0.86363	1.10599	89.19937	93.89334
0.44549	1.09391	462.9972	502.0884	1.29383	0.06524	1.29383	407.6274	533.5755
0.04128	1.12293	1034.894	1162.044	1.00088	0.98547	1.00088	2196.671	2196.294
0.40469	1.08147	698.6899	752.3688	1.18015	0.01254	1.18015	642.4003	758.7381
0.29634	0.93312	5804.296	5408.346	1.21692	0.00002	1.21692	5244.908	6379.774
0.48095	1.03613	3565.106	3684.706	-1.05847	0.2396	0.94476	3536.668	3342.525
0.36994	1.04803	3398.964	3590.955	1.04825	0.31845	1.04825	3645.141	3818.687
0.91192	0.99064	843.9847	835.9673	-1.04531	0.39938	0.95666	2040.353	1955.762
0.06972	1.17225	6602.078	7840.816	2.0331	1.36E-23	2.0331	6246.374	12697.83
0.00041	0.76694	1193.979	914.5419	1.17872	0.01321	1.17872	978.0521	1153.922
0.04571	1.10072	1955.643	2152.476	-1.25189	6.84E-06	0.79879	3324.01	2656.383
0.02116	0.74587	382.3757	283.4074	-1.17399	0.24991	0.85179	357.6737	302.8536
0.68566	0.92769	226.5125	207.8372	1.01203	0.95355	1.01203	209.7578	214.3216
0.62568	0.94678	462.2116	434.5148	-1.01347	0.89102	0.9867	420.7324	414.8524
0.19518	1.07367	1767.009	1900.615	-1.00123	0.97643	0.99877	2753.892	2750.522
0.10642	1.17271	4931.195	5686.577	-1.62448	0.00036	0.61558	8415.813	5162.881
0.44285	0.94181	2352.187	2253.334	1.15464	0.02457	1.15464	2481.823	2862.363
0.04226	0.91586	2349.947	2151.905	1.56538	1.05E-08	1.56538	2011.389	3158.019
0.03423	1.10725	4085.568	4515.665	-1.01634	0.76222	0.98392	4375.144	4291.622
0.08261	1.2502	18997.71	23790.96	-2.82277	1.11E-15	0.35426	28050.8	9634.424
0.47764	1.06394	1005.457	1072.313	1.33171	7.37E-06	1.33171	972.562	1293.478
0.44113	1.06455	1732.923	1850.93	1.30634	2.73E-06	1.30634	1925.639	2513.752
1.15E-10	0.73537	2287.409	1681.59	-1.39128	3.44E-06	0.71876	1835.427	1316.021
0.04762	0.88998	1949.963	1730.986	1.24442	8.91E-07	1.24442	1784.038	2220.109
0.16032	0.74007	3320.072	2493.002	-1.81783	5.06E-08	0.55011	1692.014	925.182
0.70517	0.88197	108.3789	94.86345	1.15388	0.76278	1.15388	77.54636	89.63611
0.47393	0.86092	7912.764	7313.295	-1.34821	3.75E-10	0.74172	6612.562	4907.302
1	1	18.00455	23.54677	1	1	1	17.40772	33.6165
0.01781	0.85562	2079.193	1780.19	1.23412	0.01029	1.23412	1668.776	2060.512
0.20551	0.91181	1247.215	1143.587	1.01981	0.80966	1.01981	1150.178	1168.647
0.04337	1.1023	6621.936	7300.097	1.16079	0.02033	1.16079	7551.116	8736.549
0.94257	0.97402	91.87105	89.88779	-1.16031	0.87674	0.86184	48.69661	51.28903
0.72378	1.04849	561.0279	582.145	-1.07265	0.61355	0.93227	579.9441	542.5449
0.18184	1.08103	1290.014	1396.766	-1.25071	0.00008	0.79955	2483.799	1988.258
0.48603	1.09375	24349.59	26221.63	-1.69617	0.00037	0.58956	33764.23	19304.36

0.61335	0.95607	580.3826	552.7117	1.47097	0.00005	1.47097	540.7261	792.8862
0.06082	0.76314	810.3762	611.167	1.03946	0.52107	1.03946	904.2734	939.7142
0.88016	1.02127	230.1717	234.3333	-1.1089	0.65793	0.90179	244.691	217.0391
0.95588	1.02101	111.5525	112.514	1.08038	0.77395	1.08038	147.2201	158.6127
0.80486	1.02437	313.8188	321.2744	1.02298	0.86746	1.02298	292.08	298.2495
0.13599	0.86308	790.4673	678.5107	1.15879	0.098	1.15879	696.6275	809.8202
0.16434	0.9117	970.7722	884.7367	1.07419	0.25075	1.07419	1040.229	1115.822
0.00815	0.70273	3151.426	2214.792	-1.37568	0.00327	0.72691	2791.136	2012.138
0.00751	1.14698	1489.669	1710.852	1.31636	0.00081	1.31636	1397.657	1845.394
0.09499	1.21512	325.8803	394.9268	-1.00296	0.98303	0.99705	342.7965	343.6613
0.54831	0.8841	242.5154	210.3291	2.07578	1.49E-06	2.07578	179.2759	372.8644
0.78129	1.03278	498.04	510.4544	1.03279	0.75229	1.03279	488.5651	506.4339
0.02615	0.64011	1431.227	885.212	1.72695	0.00037	1.72695	927.4766	1642.3
0.00088	0.51558	6608.909	3270.706	1.08847	0.36607	1.08847	4660.399	5082.983
0.13493	0.77961	677.8388	518.1498	-1.0114	0.89978	0.98873	516.9017	512.0106
0.13745	1.08388	962.7106	1044.253	-1.10705	0.11214	0.9033	1007.892	909.9398
0.62723	0.93262	367.243	346.7834	-1.15395	0.33932	0.86659	466.0883	403.9541
0.26428	0.83876	806.4108	666.4508	-1.37257	0.00527	0.72856	699.3589	512.3635
0.02021	1.14598	897.8189	1029.386	-1.10421	0.11393	0.90562	966.7499	874.4439
0.93328	0.98142	173.8221	172.8563	-1.10574	0.73376	0.90437	160.4488	145.8165
0.7755	1.04188	242.591	252.1456	3.27251	5.26E-14	3.27251	211.0795	687.1745
0.48062	0.96428	1205.717	1163.734	-1.26225	0.00001	0.79224	1159.877	918.7475
0.60477	1.04571	575.9538	603.8409	-1.14237	0.0908	0.87537	1332.453	1160.604
0.16734	0.80045	1096.303	868.3884	1.24873	0.07869	1.24873	966.9183	1220.38
0.20733	1.07212	3054.437	3290.487	-1.17343	0.00844	0.8522	2994.919	2572.813
0.02475	0.78531	5060.661	3960.313	1.14092	0.20699	1.14092	4131.788	4744.566
0.49264	1.047	4014.446	4202.857	-1.33101	8.39E-06	0.75131	3343.698	2511.923
0.00243	1.52268	3278.582	5105.681	2.51599	8.68E-13	2.51599	3043.801	7767.304
0.00483	0.82843	1344.685	1112.642	-1.00127	0.99	0.99873	1062.995	1065.103
0.95886	1.00563	299.4808	300.9554	1.04828	0.77906	1.04828	239.3581	250.3336
0.71576	1.08648	193.9775	207.5752	-1.09713	0.70132	0.91147	196.2506	181.1429
0.22985	0.9296	1095.672	1019.704	1.10877	0.10746	1.10877	954.7658	1057.431
0.53805	1.05792	613.9213	652.462	1.1236	0.22194	1.1236	554.3268	620.7074
0.58382	0.8973	259.5199	227.7594	1.31996	0.2707	1.31996	181.3975	241.2976
0.88437	1.02619	180.9882	185.2088	-1.01806	0.93673	0.98226	162.3396	158.9595
0.05227	0.75272	1139.812	848.5975	3.63933	9.16E-17	3.63933	937.2902	3506.251
0.11974	0.85644	85724.45	73715.92	-1.76474	8.06E-13	0.56666	94653.25	53790.3
0.57699	1.14905	121.6595	140.7778	-1.03164	0.92611	0.96933	137.3762	130.9782
0.0101	1.21782	4257.179	5188.742	-1.04618	0.577	0.95586	4659.408	4436.842
0.91141	1.00774	2591.815	2610.721	-1.18311	0.02056	0.84523	2612.978	2205.823
0.14085	0.8136	1055.309	851.0658	-2.1473	2.66E-08	0.4657	898.6919	420.3339
0.00004	0.73951	2403.037	1778.734	1.08133	0.29273	1.08133	1916.83	2070.379
0.80268	1.03029	345.371	355.4243	1.10326	0.23785	1.10326	439.9849	485.7385
0.34496	1.04258	1691.228	1763.007	-1.04951	0.60994	0.95282	1473.346	1411.69
0.94133	0.92586	27.21853	25.49683	1.63231	0.63299	1.63231	30.07884	48.62938
0.98368	1.00179	5881.523	5901.109	1.15768	0.00251	1.15768	5385.166	6234.471
0.24086	1.07701	2550.687	2734.278	1.04815	0.31488	1.04815	2696.574	2830.473
0.45156	1.07576	650.5613	704.1111	-1.02943	0.78199	0.97141	712.1137	688.4356
0.00001	0.61375	8589.18	5204.659	1.33064	0.00001	1.33064	5924	7887.273
1.25E-10	1.32847	2685.168	3567.534	1.10355	0.09861	1.10355	4828.915	5327.149
0.94081	1.08505	45.36842	45.18568	-1.24737	0.84493	0.80169	29.78348	30.12014
0.89983	0.99333	1327.629	1317.934	1.58076	6.14E-17	1.58076	1212.489	1916.646

0.86342	0.99232	2290.852	2273.505	1.05314	0.52476	1.05314	2137.842	2249.123
0.99316	1.00059	686.644	687.9172	1.10343	0.30718	1.10343	656.9199	722.2018
0.32584	1.05659	1403.28	1479.899	1.10438	0.03393	1.10438	1572.835	1736.5
0.6378	1.08898	217.0833	237.4182	1.05879	0.70343	1.05879	205.3678	217.3468
0.00405	0.58569	396.7109	228.186	-1.38733	0.04577	0.72081	305.5836	218.9203
0.29538	1.14203	463.6635	523.111	1.59808	0.00203	1.59808	525.3099	834.4163
6.51E-06	0.75102	32548.37	24503.19	-1.44061	1.87E-10	0.69415	33610.69	23292.35
0.09225	0.89443	1872.185	1673.8	1.74112	1.10E-33	1.74112	1565.958	2726.502
0.97242	0.99506	269.2343	269.6903	-1.04421	0.76014	0.95766	277.2506	264.761
0.7314	0.91568	121.7724	111.7356	1.13804	0.74115	1.13804	92.80561	106.6469
0.04124	1.10625	8129.937	8995.254	1.05138	0.33007	1.05138	9111.183	9571.188
0.90661	0.99309	2786.804	2769.448	1.10815	0.02937	1.10815	2532.736	2806.956
0.01049	1.12848	3032.131	3423.321	1.05934	0.25744	1.05934	3281.457	3472.796
0.26052	1.10531	519.8612	572.5953	1.06239	0.40388	1.06239	611.1263	649.3956
0.30368	1.14552	7034.573	8101.894	-1.70139	1.73E-06	0.58775	8076.853	4714.856
0.04863	1.21287	301.8922	366.3969	-1.00966	0.93836	0.99044	322.2	318.337
0.65112	0.96409	733.1123	709.2996	-1.75671	0.00002	0.56925	542.1777	310.5161
0.614	1.0287	834.7763	859.2133	-1.0763	0.24958	0.92911	944.762	876.7277
0.07968	0.92682	9763.645	9054.99	1.90525	3.04E-17	1.90525	10975.25	20999.77
0.03717	0.50559	164.7965	83.67238	1.19922	0.73135	1.19922	60.41772	72.22345
0.05381	1.1264	10063.95	11460.77	-1.42396	2.08E-07	0.70227	11702.72	8196.763
0.3749	0.95914	1577.838	1513.934	-1.13828	0.03641	0.87852	1557.835	1364.008
0.68467	0.88938	126.8919	111.7394	-1.07209	0.80643	0.93276	128.789	119.9782
0.36276	0.83521	1142.467	933.5107	1.28636	0.18258	1.28636	880.2404	1156.071
0.00038	0.79789	5181.599	4104.388	-1.23657	0.00013	0.80869	4722.849	3826.406
0.46075	0.86728	288.2273	243.3998	1.31887	0.06267	1.31887	239.338	314.2817
0.65984	1.05496	304.798	323.0046	-1.02623	0.83557	0.97444	285.6596	278.0701
0.65571	1.26666	78.62729	92.43151	2.12503	0.01437	2.12503	82.82592	175.3178
8.05E-11	0.71782	1471.503	1056.815	1.04215	0.6795	1.04215	1101.281	1140.198
0.01808	1.34971	20779.26	27766.59	-2.87709	1.79E-12	0.34757	37215.89	12465.45
0.41767	0.90843	324.385	293.5372	1.75133	1.96E-09	1.75133	307.3936	538.016
0.96953	1.00194	1240.759	1244.344	-1.14167	0.08511	0.87591	1209.599	1054.527
0.00867	0.78092	888.0689	689.782	-1.07525	0.39081	0.93002	701.0944	653.7203
0.87804	1.01404	621.5125	633.208	-1.03194	0.57142	0.96905	1089.539	1055.049
0.97375	1.00197	744.066	745.1426	-1.26303	0.04129	0.79175	716.9473	565.869
0.18851	1.07904	2379.989	2568.081	1.10963	0.02264	1.10963	2425.008	2690.681
0.65247	0.97199	4251.029	4151.075	-1.19029	0.02219	0.84013	4308.111	3594.315
0.96032	0.99665	4785.498	4796.46	-1.0687	0.33225	0.93571	4581.178	4284.797
0.02592	0.82514	9868.778	8191.836	1.97006	1.24E-25	1.97006	10116.94	19932.77
0.11621	1.13392	431.7658	489.8198	1.29458	0.02294	1.29458	446.5256	575.2889
0.66082	1.17135	106.0635	120.541	-1.11336	0.57494	0.89818	211.9727	189.6231
0.71247	0.97008	4601.799	4453.258	-1.15107	0.05169	0.86875	4991.027	4349.508
0.86058	0.98791	608.4833	602.0734	-1.31163	0.00962	0.76241	637.1682	484.4768
0.62543	0.96402	532.5563	512.5607	-1.00376	0.97453	0.99626	440.18	440.9617
0.10364	0.91358	1488.476	1358.948	-1.26094	0.00001	0.79306	1352.706	1073.06
0.97516	0.99614	378.9496	374.3126	1.19273	0.23653	1.19273	278.3175	334.2048
0.02073	1.36683	204.4815	278.7563	1.69225	0.00002	1.69225	237.2734	401.8671
0.00087	0.67569	820.7098	548.5829	1.00354	0.97558	1.00354	616.0759	621.6743
0.67335	0.95913	1264.118	1219.797	-1.09812	0.35041	0.91064	1336.763	1213.135
0.28372	1.24894	115.4366	144.1317	1.07982	0.70898	1.07982	248.4403	272.1377
0.06987	0.63895	217.4837	137.5134	1.11438	0.67503	1.11438	169.4908	191.7242
0.12547	0.80429	3552.403	2870.19	-5.21739	1.51E-35	0.19167	3267.728	624.9166

0.52694	1.03528	1018.88	1053.591	-1.01291	0.87484	0.98725	998.8362	988.7754
0.00946	0.76933	1086.437	832.6628	1.18127	0.00977	1.18127	986.5621	1165.891
0.00246	0.88313	20509.16	18112.39	-1.07767	0.18055	0.92793	20466.21	18993.52
0.49903	1.26492	129.2583	153.8164	1.43602	0.00598	1.43602	292.8297	422.3826
0.01011	0.76165	3797.558	2874.502	-1.22775	0.18296	0.8145	2827.181	2270.605
0.8049	0.87788	65.89192	58.69823	1.10385	0.86829	1.10385	53.28766	58.91544
0.3689	0.902	793.0544	710.6903	-1.09197	0.39205	0.91577	673.3664	619.3584
0.21295	1.14174	368.0775	421.7389	1.22001	0.04779	1.22001	338.8514	413.1964
0.80297	0.95979	473.9456	446.4106	-1.05286	0.76879	0.94979	389.0428	375.5969
0.64299	1.03629	774.2795	799.5073	1.00652	0.9093	1.00652	938.8572	945.5568
0.02311	1.1304	3035.356	3436.902	-1.17881	0.06544	0.84831	3863.877	3273.826
0.20793	1.11454	388.1346	432.192	-1.20745	0.02969	0.82819	462.4668	383.1728
0.00002	1.25716	2722.947	3423.358	-1.18442	0.00831	0.84429	2038.084	1719.114
0.36047	1.10088	952.2661	1046.861	1.41665	1.05E-08	1.41665	900.5903	1276.532
0.49673	0.89665	314.4301	280.0698	1.08993	0.59987	1.08993	262.7723	286.6441
0.19641	1.12021	2919.751	3263.595	1.18809	0.00094	1.18809	3005.097	3569.048
0.40054	0.94047	1894.23	1783.478	-1.16047	0.16641	0.86172	1837.327	1555.046
0.40461	1.07608	3672.807	3924.223	-1.08331	0.24701	0.9231	4067.607	3772.736
0.83364	1.01474	4460.889	4539.58	-1.06983	0.41665	0.93473	5144.508	4815.443
0.03476	0.77043	863.1093	669.9274	-2.5952	9.66E-09	0.38533	593.1514	225.0867
0.27168	1.09795	1405.714	1547.853	-1.29713	0.00143	0.77094	1587.537	1225.052
0.52995	1.05749	532.1282	560.5915	-1.02775	0.76947	0.973	515.8883	500.6856
0.89147	1.00951	616.1603	622.488	-1.19129	0.14918	0.83942	497.6206	415.4587
0.57432	0.91246	346.7173	310.8568	1.09547	0.64478	1.09547	277.076	308.3709
0.5384	1.1136	192.5419	215.6097	1.12321	0.23072	1.12321	435.647	490.486
0.73327	1.03269	672.4047	691.7887	1.21922	0.00434	1.21922	1029.636	1254.058
0.94751	1.07509	24.96674	24.19928	1.00651	0.99628	1.00651	33.72135	39.3225
0.00061	1.33372	1515.495	2014.349	2.35198	5.34E-09	2.35198	1613.201	3878.918
0.13454	0.84583	1547.256	1304.548	1.36482	0.00003	1.36482	1372.472	1877.319
0.09276	0.92603	2466.802	2283.417	-1.02654	0.6787	0.97414	2402.779	2337.926
0.09972	0.87591	806.4274	703.5696	-1.2144	0.1066	0.82345	462.5671	382.2559
0.00064	0.76268	1771.309	1346.737	-1.21271	0.00645	0.8246	1547.224	1276.178
0.16942	0.91085	9886.697	8983.586	1.11693	0.29988	1.11693	9489.254	10528.2
1	1	18.00676	23.86776	1	1	1	18.16018	28.33209
0.0883	1.12633	816.6118	916.9343	1.40019	6.09E-06	1.40019	987.2551	1379.722
0.00451	1.14217	2930.798	3349.73	-1.29584	0.00031	0.7717	3302.774	2548.188
0.84913	1.1071	65.14597	72.47002	-1.34288	0.69437	0.74467	65.79832	47.4138
0.22145	1.06352	11557.46	12289.61	-1.29638	1.43E-06	0.77138	12639.39	9713.289
0.01548	0.75659	2723.282	2078.375	1.03309	0.73399	1.03309	3011.118	3087.039
0.61374	1.08464	202.9886	221.2064	-1.11779	0.6686	0.89462	181.5165	160.1856
0.48083	1.08453	625.9669	681.6619	1.14944	0.11142	1.14944	654.0309	753.9578
0.01753	0.75876	4564.691	3471.231	-1.04816	0.45916	0.95405	3924.141	3745.787
0.27445	0.8076	416.8407	329.6315	1.39888	0.08975	1.39888	303.8848	429.8582
0.94432	0.90882	20.66159	23.14138	1.07116	0.96085	1.07116	23.31441	31.21955
0.54356	1.04247	1254.448	1312.171	-1.12494	0.25034	0.88894	1325.707	1173.334
0.65699	0.96162	667.2444	644.3311	-1.16425	0.1309	0.85893	649.9639	555.8714
0.23833	1.07647	4220.318	4558.16	-1.08247	0.19919	0.92382	4491.922	4130.919
0.39692	1.12064	389.0921	434.8469	-1.11477	0.3239	0.89704	619.4298	552.7372
0.00012	0.62908	7054.523	4409.07	1.03157	0.48669	1.03157	4849.24	4998.633
0.08317	0.82339	1144.979	934.7827	-1.57229	1.51E-12	0.63602	1100.849	700.4481
0.68037	1.05032	9055.006	9439.539	-1.47136	6.36E-07	0.67965	13629.67	9246.887
0.812	1.01758	5268.89	5359.61	1.77717	2.60E-24	1.77717	4945.451	8785.549

0.40974	0.87976	284.2558	248.4826	1.87416	4.85E-06	1.87416	252.2987	472.9695
0.72187	0.90654	266.4675	230.0447	2.68027	1.63E-14	2.68027	243.1106	655.428
0.14456	0.73934	359.5629	258.2189	1.02052	0.87927	1.02052	244.4052	249.4419
0.86448	1.12012	47.39617	54.36542	-1.24877	0.77513	0.80079	44.63398	35.68143
0.88342	1.02876	450.4471	452.9072	1.65237	0.00003	1.65237	335.0894	556.5885
0.45941	1.05705	729.3956	772.7376	1.02532	0.75065	1.02532	886.0773	906.3867
0.99846	0.99935	124.7699	126.2996	-1.59637	0.56871	0.62642	69.62575	44.88642
0.74119	0.98003	697.9742	684.5416	-1.07696	0.28011	0.92854	714.2846	662.6209
0.92911	0.99088	537.7014	529.4867	1.18548	0.01178	1.18548	575.6979	682.5123
0.58549	0.90741	207.8301	188.248	-1.11667	0.55574	0.89552	202.2083	180.9575
0.93052	0.97576	140.6682	135.1854	1.00005	0.99986	1.00005	136.7139	137.9763
0.02361	0.89488	1463.714	1309.985	1.27453	5.38E-07	1.27453	1272.813	1621.929
0.39375	0.95034	4712.268	4479.56	1.38344	6.10E-08	1.38344	4297.064	5943.919
0.0002	0.68919	984.1025	673.8449	1.08819	0.32831	1.08819	726.6596	793.0662
0.51715	0.76259	122.5915	97.58073	1.24976	0.61629	1.24976	75.95602	93.76604
0.34091	1.04253	1935.767	2018.541	-1.00947	0.84397	0.99062	1985.001	1967.983
0.01268	0.81892	4842.995	3959.738	-1.21619	0.01664	0.82224	4139.544	3401.841
0.06135	1.1379	2621.916	2992.875	-1.0823	0.37165	0.92396	2950.792	2712.438
0.66373	0.92837	248.9647	233.7723	-1.23906	0.342	0.80706	202.8584	164.7069
0.52905	1.03934	1275.028	1320.97	1.03228	0.54304	1.03228	1238.161	1277.296
0.62098	0.78609	80.54399	63.15744	-1.10648	0.84642	0.90377	67.94778	61.32039
1	1	17.34278	23.56643	1	1	1	18.72256	31.41758
0.01928	1.43119	639.1169	903.0636	2.83813	1.03E-11	2.83813	433.0339	1232.85
0.00283	1.18074	1171.688	1382.045	-1.14058	0.03918	0.87674	1245.867	1093.509
0.18896	0.90729	5546.911	5040.884	1.29528	0.00178	1.29528	5280.537	6837.306
0.6376	1.04384	347.6365	362.4822	1.0899	0.40557	1.0899	390.6412	426.7607
0.841	1.03496	193.8698	200.8058	1.03944	0.85897	1.03944	183.7429	189.5307
0.27827	0.88004	945.9092	828.4641	1.10577	0.10593	1.10577	1073.278	1188.244
0.56433	1.02747	1942.966	1997.479	-1.04609	0.29316	0.95594	3052.598	2917.701
1.17E-08	0.74146	20378.41	15115.91	1.87843	1.04E-22	1.87843	17478.66	32842.95
0.01552	1.43957	673.1215	985.5851	-1.92473	0.00258	0.51955	602.8616	313.2188
0.5422	0.97014	1845.282	1787.814	-1.10666	0.02493	0.90362	1890.082	1707.561
0.85017	0.9614	488.5395	477.374	-2.04583	0.01308	0.4888	288.0437	145.5294
0.95523	0.99701	2540.974	2542.188	-1.15837	0.03647	0.86328	2401.924	2060.422
0.00021	1.19249	1553.299	1852.494	1.40296	0.00075	1.40296	1536.762	2162.398
0.67627	1.05799	371.0665	394.347	-1.01192	0.94514	0.98822	337.3082	328.066
0.83421	1.01025	1222.936	1235.421	1.78747	3.96E-16	1.78747	1128.364	2016.938
0.1714	0.87474	842.9307	732.9948	1.16711	0.12944	1.16711	718.1625	842.6188
0.74564	1.58222	22.77172	36.18899	1	1	1	17.71943	32.80151
0.1136	1.11391	660.1589	735.4404	1.18813	0.09957	1.18813	652.1547	774.8784
0.79966	0.96347	561.3029	532.6534	1.79731	5.64E-11	1.79731	435.706	781.33
5.93E-07	0.77818	8270.212	6444.764	1.52317	4.93E-20	1.52317	8803.393	13407.21
0.36893	0.85905	1502.928	1279.248	1.37417	0.06746	1.37417	1187.754	1658.795
0.91853	1.01726	244.2784	246.4062	1.08195	0.69771	1.08195	210.5182	225.4607
0.32899	0.893	733.8825	660.1268	1.8681	1.47E-16	1.8681	564.9348	1053.633
0.50078	0.91901	917.502	852.2681	-1.41119	0.01407	0.70862	620.813	442.6409
0.77985	0.89099	113.0766	106.173	-1.07989	0.76321	0.92602	160.1547	148.3272
0.53563	1.04259	1748.298	1816.304	-1.10241	0.09836	0.9071	1996.886	1817.895
0.00764	1.26892	672.9879	849.6995	1.73845	2.31E-14	1.73845	686.2451	1196.11
0.71402	1.02644	594.0082	609.8546	1.42997	0.01366	1.42997	530.5143	754.1523
0.41659	1.04157	4999.374	5220.782	1.00387	0.95029	1.00387	4680.253	4673.161
0.83146	0.97327	1059.811	1023.84	1.4314	0.00016	1.4314	1020.198	1468.432

0.71351	1.04157	2765.725	2902.568	1.25019	0.00336	1.25019	2445.953	3058.872
0.19318	1.15796	781.4685	900.8506	2.00279	2.83E-30	2.00279	699.39	1401.546
0.09997	0.84533	2670.315	2257.008	-1.08965	0.36995	0.91773	2255.86	2074.248
0.02421	1.15016	20440.37	23516.8	-1.14609	0.09671	0.87253	23484.78	20368.21
0.04375	1.2045	466.2295	559.4503	1.46734	0.00005	1.46734	434.2551	635.5188
0.20016	1.10853	1321.325	1474.488	-1.24993	0.00003	0.80004	1532.861	1225.048
0.2678	0.8993	6994.019	6276.72	-1.22316	0.0355	0.81755	6401.416	5217.085
1.11E-09	0.73114	9778.557	7144.878	1.19635	0.03211	1.19635	7873.927	9419.777
0.01529	0.61447	781.6627	465.7296	-1.15534	0.22363	0.86555	560.1111	486.5177
0.36029	0.75827	229.5938	182.882	-1.49506	0.05374	0.66887	234.976	158.247
0.00621	0.81885	2045.134	1672.826	1.09073	0.23943	1.09073	1785.105	1948.649
0.59748	0.97137	2213.424	2155.688	-1.06656	0.26126	0.93759	2184.537	2050.807
0.00003	0.68166	6344.783	4318.392	-1.18156	0.00693	0.84634	5543.64	4686.566
0.07582	1.15885	624.8097	725.8417	1.06875	0.24873	1.06875	1617.592	1724.48
0.82143	1.02451	1073.918	1103.329	-1.15773	0.06766	0.86376	1172.851	1011.372
0.01537	0.89223	5998.221	5350.237	1.95643	1.59E-08	1.95643	5558.934	10901.19
0.78081	0.93863	10910.99	9637.734	-3.18651	2.45E-27	0.31382	10610.46	3327.698
0.0114	1.16147	1475.919	1713.727	1.0313	0.49593	1.0313	1595.011	1645.031
0.72087	1.02742	4750.309	4884.622	1.9933	8.44E-22	1.9933	3974.621	7936.274
0.3728	1.07081	1062.023	1130.584	-1.04747	0.38309	0.95468	1146.994	1094.667
0.587	1.02392	4395.178	4502.533	-1.11472	0.04107	0.89708	4645.232	4160.416
0.00912	1.18312	1019.192	1206.635	1.14771	0.00905	1.14771	1829.548	2097.917
0.48866	0.94313	518.082	487.2605	2.87405	1.14E-42	2.87405	497.6618	1432.715
0.15866	0.88182	4396.111	3862.478	1.09227	0.28719	1.09227	3992.107	4370.189
0.00081	1.49869	5043.684	7644.381	3.06186	1.87E-34	3.06186	4912.782	15086.63
0.09313	0.78304	513.7666	395.6433	1.06938	0.48845	1.06938	502.0676	538.621
0.30214	0.83569	239.9713	199.6778	1.53304	0.04037	1.53304	215.2801	336.3377
0.8503	0.86956	61.72795	59.42081	-1.28333	0.60917	0.77922	75.71124	59.27447
0.29675	0.87688	3866.875	3414.55	-1.00906	0.88014	0.99102	3240.959	3210.502
0.1326	1.08674	2929.963	3197.916	1.11268	0.22519	1.11268	2863.994	3180.611
0.75618	1.04124	295.9686	309.1166	1.01086	0.91364	1.01086	443.2854	449.2302
0.61152	0.97479	2885.38	2812.844	1.07897	0.14095	1.07897	2592.888	2795.298
0.16615	0.90792	1524.384	1388.271	-1.2256	0.01005	0.81593	1164.545	951.6481
0.0043	0.6962	1020.36	703.4376	-1.33963	0.00002	0.74648	889.8414	664.9304
0.16605	1.18452	303.8281	362.0074	-1.04291	0.83089	0.95886	292.3597	275.7013
0.78538	1.02103	672.6521	685.1614	-2.08334	4.42E-06	0.48	703.4536	340.6311
0.28505	0.92207	1673.72	1539.762	-1.84181	1.09E-18	0.54294	1547.927	841.2462
0.00124	0.80239	765.4769	613.5923	-1.45297	4.64E-06	0.68825	657.5481	452.0356
0.90533	0.99164	1165.864	1161.933	1.00313	0.97149	1.00313	1072.946	1070.781
0.0319	0.56652	266.3174	146.5151	1.12766	0.56477	1.12766	190.6847	213.3093
4.72E-10	0.71398	23456.46	16721.82	-1.51055	1.83E-07	0.66201	22292.67	14759.12
0.15146	1.10076	2904.002	3185.169	1.31937	3.25E-10	1.31937	2794.599	3688.814
0.43821	1.10033	247.8787	273.393	-1.13591	0.47107	0.88035	267.9574	237.9315
0.46687	1.03536	2418.34	2503.477	1.03216	0.64498	1.03216	2488.569	2559.397
0.16008	1.07688	3951.327	4254.922	-1.05131	0.44175	0.95119	4906.639	4654.292
0.78811	1.04414	205.8998	214.9945	1.14596	0.44028	1.14596	195.1841	223.6344
0.14753	0.81519	498.9413	400.7095	-1.05979	0.56056	0.94358	386.9122	365.5258
0.87712	1.25095	18.31667	25.45863	-1.0401	0.9771	0.96145	22.35646	31.51514
0.38475	0.94498	638.9442	604.3284	-1.09048	0.32077	0.91703	540.4781	494.8173
0.46347	1.10124	349.6213	384.5164	1.28586	0.01611	1.28586	456.4266	584.5076
0.18532	0.94333	2632.18	2484.234	-1.01764	0.78517	0.98267	2644.419	2596.281
0.70849	0.97101	745.7228	721.3729	-1.05966	0.45051	0.9437	772.1461	727.7264

0.66948	0.968	994.7793	968.0331	1.01798	0.80244	1.01798	1062.401	1080.273
0.37546	1.11644	350.9804	389.154	1.03149	0.72109	1.03149	673.6445	696.8048
0.89158	1.00862	888.1063	895.4855	-1.16764	0.00486	0.85643	1243.437	1064.962
0.37641	0.91803	449.679	411.2769	1.37288	0.00157	1.37288	401.8688	550.2317
0.94226	0.99195	314.353	311.563	-1.02386	0.83193	0.9767	348.7255	340.1072
5.25E-07	0.57931	3301.316	1896.454	-1.10135	0.2575	0.90798	2296.719	2087.965
0.03625	1.16212	1218.053	1416.55	-1.28923	0.00016	0.77566	2059.883	1599.945
0.8392	1.03885	234.7887	240.4002	-1.17368	0.42721	0.85202	191.6295	163.0301
0.76226	1.02229	552.3733	563.8324	1.01313	0.90973	1.01313	690.937	699.5393
1.39E-07	0.65781	1236.995	815.3605	-1.42362	2.30E-06	0.70243	968.9164	679.3698
0.50023	0.96721	3696.449	3576.722	1.10147	0.10941	1.10147	3622.633	3987.71
0.94432	1.00358	1530.245	1538.474	1.02756	0.67743	1.02756	1378.763	1411.857
0.00642	0.77767	10473.38	8130.84	-1.00158	0.97808	0.99843	9151.242	9131.164
0.92234	1.0084	456.4313	461.2742	1.04783	0.56204	1.04783	457.5008	479.335
0.6392	0.95596	3625.2	3470.706	1.29848	0.00387	1.29848	3109.393	4042.901
0.77335	1.06925	137.1673	146.413	-1.25258	0.53362	0.79835	156.6704	124.4812
0.8882	1.00971	1568.296	1577.522	-1.11944	0.12253	0.89331	1575.39	1410.13
1.32E-09	0.77111	12213.17	9416.049	-1.08467	0.15717	0.92194	10872.52	10033.25
0.5832	0.83544	142.8415	123.6035	-1.54273	0.33995	0.6482	115.8879	75.71967
0.52137	0.96449	3652.469	3538.437	1.54035	4.78E-21	1.54035	3782.887	5825.731
0.7205	1.07738	181.5731	195.1726	-1.01929	0.91574	0.98108	236.3378	233.5389
0.34221	1.05413	3224.964	3395.079	-1.14951	0.02851	0.86994	3969.739	3463.666
0.77698	1.01356	1736.064	1760.905	1.34184	0.00062	1.34184	1628.158	2185.414
0.27494	1.13271	825.7909	935.8264	-1.66596	4.69E-10	0.60026	1371.183	825.9073
0.67225	1.03876	521.7091	540.1829	1.33786	0.01095	1.33786	514.6353	684.8706
0.08328	1.16844	952.7489	1113.323	-1.11715	0.06428	0.89513	968.5752	866.3674
0.00473	0.84287	1296.849	1092.582	2.84535	0	2.84535	1099.394	3129.953
0.91133	1.01172	327.5397	331.9931	-1.04279	0.76523	0.95897	357.9921	341.0637
2.68E-08	0.65233	1164.587	756.9534	-1.38837	0.0005	0.72027	982.556	709.6504
0.14109	1.12459	2491.283	2821.374	1.43539	2.17E-13	1.43539	2261.133	3247.128
0.33294	1.05669	1596.187	1682.746	-1.01401	0.80408	0.98619	1686.778	1660.804
0.00001	0.5388	8702.986	4578.407	-2.46591	0	0.40553	5490.111	2224.393
0.28183	0.89724	366.9493	330.0005	-1.12832	0.34005	0.88627	281.7417	249.7993
0.45396	0.73392	105.7895	78.63913	-1.14764	0.75455	0.87135	89.0519	78.42462
0.72475	0.85111	74.95796	64.62074	-1.39367	0.63556	0.71753	69.53178	49.87695
0.02006	0.76069	3191.637	2408.754	-1.03196	0.71565	0.96903	2748.009	2669.004
0.62816	0.92011	703.4135	656.3137	-1.25792	0.08653	0.79496	633.3057	508.6937
0.94239	0.99089	980.3113	984.6693	-1.09351	0.47946	0.91449	983.5001	894.4376
0.07133	0.66765	1427.491	920.0697	-1.73731	0.00003	0.5756	1159.395	667.8443
0.0057	0.83057	790.0803	655.4952	1.34767	0.0003	1.34767	671.696	903.5459
0.05744	0.79097	1538.646	1208.851	1.15375	0.03378	1.15375	1147.222	1325.194
0.91732	1.0067	569.2172	572.8842	-1.10604	0.23807	0.90413	542.8964	490.2575
0.56385	0.94704	2959.54	2808.999	-1.13198	0.05593	0.88341	2637.179	2332.316
1.96E-07	0.76516	7342.826	5613.358	-1.18552	0.00575	0.84351	7756.745	6547.068
0.00379	1.20056	1066.175	1281.31	1.12293	0.28071	1.12293	1150.371	1290.411
0.38374	1.08088	778.7013	837.4197	-1.14344	0.2457	0.87456	789.6746	694.2626
0.48476	1.11366	240.5067	265.8452	-1.26024	0.08312	0.7935	312.9033	248.2882
0.29246	1.08857	761.3302	826.1193	1.17449	0.15754	1.17449	753.3456	891.2988
0.00585	0.77478	1314.288	1016.186	1.41649	2.21E-11	1.41649	1393.969	1973.554
0.04325	0.9153	2372.482	2170.653	1.66042	2.66E-24	1.66042	2103.886	3494.146
0.16922	0.86249	3582.271	3096.832	1.04042	0.61861	1.04042	2988.766	3114.059
0.16444	1.09735	1225.08	1342.229	-1.01286	0.79726	0.9873	2504.615	2467.908

0.21468	1.0667	2896.094	3096.542	-1.11341	0.0186	0.89814	2842.285	2551.073
0.01454	0.78218	596.7437	468.9267	-1.11464	0.11741	0.89715	772.3358	692.794
0.94459	0.99587	1171.738	1166.285	-1.0402	0.4802	0.96136	954.2036	917.6901
0.57465	1.11485	214.4753	236.8228	1.07372	0.67227	1.07372	242.54	260.4773
0.34877	1.08885	914.2269	991.7913	-1.05217	0.44601	0.95042	977.7122	930.9056
0.12955	1.08904	1381.684	1505.147	-5.32586	1.48E-17	0.18776	1603.535	301.0849
0.10037	1.09832	958.6818	1052.253	1.02689	0.6697	1.02689	809.4354	830.9587
0.82098	1.02254	573.2122	582.9413	1.07636	0.28841	1.07636	623.3282	671.5139
0.59218	0.86758	202.7139	185.7115	-1.1757	0.31626	0.85056	249.8714	212.1323
0.96491	0.99151	158.3268	156.7934	-1.07146	0.80254	0.93331	143.1722	134.6177
0.04996	1.1787	856.7846	1012.567	1.66831	0.00017	1.66831	841.7329	1410.097
0.97861	1.00174	645.0028	646.709	-1.02152	0.88581	0.97893	572.8521	556.0073
0.8953	0.98005	277.6938	274.9589	-1.38433	0.00406	0.72237	395.0335	285.2133
0.16464	0.68019	297.6398	191.9828	1.06884	0.71675	1.06884	209.9307	224.2379
0.00942	0.62527	665.1285	405.0566	1.1862	0.08938	1.1862	488.1329	577.1261
0.4119	1.05392	921.5235	969.1887	-1.05468	0.47342	0.94815	1000.852	947.604
0.21335	0.92139	1436.849	1325.903	1.04309	0.60875	1.04309	1453.912	1517.673
0.09714	1.10104	1494.799	1650.002	1.05336	0.46457	1.05336	1864.147	1970.07
0.77002	1.02868	347.9039	358.504	-1.0861	0.54631	0.92072	291.9968	268.1535
0.03263	1.14926	8027.607	9238.969	-1.1099	0.15938	0.90098	9774.096	8789.725
0.54354	1.21774	127.5001	149.381	1.00615	0.97899	1.00615	193.9955	197.748
0.01747	1.11559	4417.493	4932.764	-1.24793	0.00009	0.80133	4615.108	3676.516
0.56719	1.05034	2651.204	2785.369	-1.28744	4.63E-06	0.77673	3253.133	2534.797
0.00053	0.8058	1807.225	1455.126	1.00898	0.89126	1.00898	1592.416	1605.673
0.24669	0.90079	3002.543	2719.207	1.10675	0.17977	1.10675	3482.132	3859.159
0.00002	0.45988	6731.373	3094.646	-2.49423	4.67E-11	0.40093	4545.626	1835.227
0.98874	1.00157	1595.273	1605.895	1.08832	0.36266	1.08832	1445.558	1574.254
0.45168	0.93393	427.5397	400.1586	-1.19538	0.2773	0.83655	334.8577	281.983
0.00428	0.82098	977.058	803.2926	1.65637	6.45E-07	1.65637	813.2957	1346.375
0.92593	0.90565	35.14037	31.49681	-1.10301	0.90371	0.90661	46.68291	42.07654
0.1718	1.1912	373.0407	439.6728	1.07313	0.23327	1.07313	915.7622	982.2201
0.58754	1.21959	97.18536	120.7875	1.14559	0.78463	1.14559	83.55455	93.48299
0.00457	0.74779	602.2952	447.65	-1.28371	0.05128	0.77899	438.8362	343.5995
0.67808	0.85379	118.116	97.8835	1.14197	0.71784	1.14197	94.60675	109.0411
0.00296	0.72471	1727.062	1245.373	1.11347	0.22894	1.11347	1531.761	1711.422
0.00573	0.84953	4692.73	3981.443	-1.25332	0.00038	0.79788	4107.842	3274.5
0.64431	1.04792	729.0248	765.558	1.04485	0.46111	1.04485	1137.39	1186.415
0.96181	1.01148	148.361	151.3266	-1.03152	0.90906	0.96944	126.9589	123.4359
0.99764	1.00141	65.72891	65.83531	-1.01447	0.98621	0.98573	44.33174	42.95181
0.00011	0.52063	418.9256	214.5085	-1.71985	0.00143	0.58145	267.7447	155.3427
0.58801	1.06188	465.9338	491.0842	1.02939	0.73547	1.02939	517.9039	532.8452
0.25493	1.18171	7092.752	8360.961	-2.39153	2.77E-17	0.41814	7811.728	3253.139
0.00024	0.75258	1761.191	1323.693	-1.09805	0.06566	0.91071	1520.906	1384.957
0.81557	0.97469	3809.743	3716.869	1.03523	0.75522	1.03523	3410.956	3527.576
4.43E-09	0.75615	5141.054	3885.101	-1.05741	0.31385	0.9457	4671.752	4416.564
0.80795	1.06028	147.8466	155.1032	1.68288	0.04437	1.68288	121.1629	205.4974
0.91078	0.99265	658.7061	654.4204	1.03299	0.66516	1.03299	705.4967	727.5789
0.06854	1.09238	2577.53	2814.378	1.27204	8.29E-06	1.27204	2608.022	3316.5
0.55581	0.62843	58.02113	36.16409	-1.11799	0.92384	0.89446	29.6642	31.09756
0.51245	1.03502	3338.84	3450.456	1.27804	0.00166	1.27804	2985.512	3803.2
0.66795	1.02983	704.9582	727.397	1.06503	0.36445	1.06503	637.14	678.8879
0.22895	1.22404	223.1097	270.2226	-1.12461	0.34956	0.88919	379.3712	335.8152

0.15383	1.10359	2917.651	3239.997	-1.0153	0.83276	0.98493	3017.484	2986.706
0.82196	0.90966	100.1622	88.31335	1.3784	0.3649	1.3784	93.94885	129.1664
0.54405	0.9512	1348.448	1293.218	-1.12299	0.08268	0.89048	1208.797	1075.217
0.58271	1.04729	6006.069	6286.561	1.33964	2.40E-11	1.33964	6653.276	8909.711
0.80711	1.01894	823.9219	843.0721	-1.10722	0.25912	0.90316	756.0132	680.7128
0.01181	0.71164	778.5864	547.2711	-1.3469	0.00001	0.74244	704.4509	523.101
0.11076	1.10613	744.1877	822.0521	-1.0729	0.35458	0.93205	756.316	703.5029
0.04121	1.15971	749.4657	868.2295	1.68518	3.24E-17	1.68518	760.61	1281.947
0.82195	1.1268	65.27821	71.48875	1.2794	0.7193	1.2794	52.23042	68.62706
0.00012	0.64436	4266.422	2751.954	-1.39531	5.18E-07	0.71668	3767.83	2698.502
0.92074	0.97644	165.9145	159.9861	1.55752	0.03393	1.55752	166.3264	258.3458
0.20985	0.88944	2181.932	1961.594	-1.46886	1.32E-06	0.6808	2402.189	1636.162
0.0017	0.73958	1549.047	1141.865	1.51774	0.00002	1.51774	1237.263	1889.818
0.14803	1.0955	884.5553	970.9368	-1.21317	0.02538	0.82429	920.3612	755.9008
0.43997	1.04841	1893.346	1990.688	-1.07364	0.17959	0.93141	2058.486	1916.003
0.13565	1.09719	1229.276	1344.102	1.02081	0.6632	1.02081	1296.47	1323.53
0.17452	0.90477	2968.834	2675.804	1.12611	0.10784	1.12611	2696.002	3050.845
2.68E-06	0.77817	9605.338	7480.216	-1.51711	4.06E-23	0.65915	7972.394	5255.038
0.68113	0.82875	94.41935	75.8183	1.32148	0.48947	1.32148	78.13837	102.5465
0.07139	0.79077	4280.962	3380.43	1.24672	0.13784	1.24672	4048.15	5041.951
0.07016	1.12317	1846.903	2073.269	-1.02684	0.58542	0.97387	2061.34	2009.313
0.77592	0.98708	4288.279	4236.534	-1.03801	0.38143	0.96338	4124.425	3973.414
0.57514	1.02344	2815.316	2881.407	-1.03836	0.41831	0.96305	2988.262	2876.592
0.92038	0.98867	302.2983	299.7246	-1.05414	0.68531	0.94864	322.3408	306.1576
0.12184	1.23367	968.6612	1195.012	-1.5502	3.97E-06	0.64508	1107.56	710.3026
0.00293	0.77884	1327.687	1032.522	1.17118	0.01396	1.17118	1032.348	1207.77
0.02695	0.69527	8492.311	5865.209	-1.16265	0.1746	0.86011	8496.523	7261.571
0.99085	1.00161	297.9224	300.9653	1.0335	0.84655	1.0335	287.588	295.5743
0.80782	1.01994	701.1132	712.353	-1.08608	0.28869	0.92074	654.2601	601.7144
0.18416	0.8475	2054.147	1739.491	-2.5991	3.97E-21	0.38475	1954.007	747.8654
1	1	19.99075	25.48955	1	1	1	18.0863	31.53631
0.02731	1.12686	2179.976	2453.75	-1.18878	0.00064	0.8412	2816.325	2366.22
0.13841	1.0765	2144.432	2308.386	1.28655	2.16E-08	1.28655	2014.02	2590.876
0.26603	0.89573	2314.848	2075.024	-1.16628	0.01742	0.85742	1868.863	1604.561
0.77858	0.98506	1751.784	1725.717	-1.06518	0.30733	0.93881	1676.179	1568.241
0.95137	0.99563	659.1162	655.2549	1.0036	0.96834	1.0036	642.9828	646.5405
0.19411	1.11123	823.7576	915.6978	-1.0056	0.91537	0.99443	1680.047	1672.069
0.02471	1.3637	4892.611	6594.633	-2.53941	1.79E-09	0.39379	10963.9	4134.778
0.92124	1.03654	92.56494	96.11615	-1.02271	0.95298	0.97779	98.44403	96.19579
0.53588	1.05302	610.9114	641.5292	1.07527	0.38109	1.07527	548.5164	590.491
0.70009	1.03181	672.6527	691.9841	1.1876	0.02381	1.1876	613.2528	727.1018
0.63087	0.93862	429.7135	408.4824	1.02843	0.72787	1.02843	793.983	814.3666
0.4788	0.84294	171.7968	146.8838	-1.52172	0.38808	0.65715	127.6746	83.30365
0.83357	0.98109	97703.38	94747.29	-2.66524	2.11E-17	0.3752	126461.6	46976.72
0.88018	1.01036	807.5665	814.1172	-1.22804	0.00453	0.8143	756.1711	616.3667
0.90742	1.02343	171.1565	174.1	-1.02685	0.93833	0.97386	130.6127	126.2757
0.65724	0.88809	127.9908	114.5448	1.21481	0.67753	1.21481	109.1083	126.5157
0.32127	0.93912	1326.023	1242.982	1.0118	0.81917	1.0118	1338.745	1354.578
0.26519	1.07556	1108.961	1195.856	-1.04663	0.45381	0.95545	1265.461	1207.985
0.81533	1.34283	27.51258	37.67855	1.28282	0.83304	1.28282	27.42457	42.56932
0.91467	0.97573	243.5542	236.8979	-1.3625	0.11669	0.73394	217.5827	159.829
0.63089	1.0447	4275.163	4440.896	-1.43839	9.94E-08	0.69522	3727.073	2583.122

0.96721	1.01099	109.9389	111.0439	1.16833	0.67542	1.16833	99.25452	116.8543
0.90933	0.99214	672.3581	667.4729	2.56734	2.66E-25	2.56734	724.7664	1861.041
0.64117	0.96491	2140.335	2067.835	1.72159	1.27E-12	1.72159	1862.014	3200.129
0.00105	1.20234	3894.093	4669.608	1.31039	4.06E-09	1.31039	3593.669	4705.272
0.06743	1.13763	788.9951	895.1859	1.16374	0.01299	1.16374	901.2892	1050.111
0.92981	1.06029	48.98309	53.27499	-1.24407	0.81571	0.80381	49.66148	44.81644
0.22185	0.89407	462.0309	411.8485	-1.06545	0.4392	0.93857	455.1755	427.2618
0.07032	0.90634	1212.438	1098.729	-1.92729	1.73E-11	0.51886	1449.99	751.8103
0.45375	0.89548	370.9197	334.4506	-1.28665	0.04542	0.77721	312.4009	242.631
0.96735	0.99331	329.0693	323.8415	1.00376	0.97958	1.00376	334.6165	337.4139
0.2274	1.12204	1028.433	1153.058	1.41268	0.00027	1.41268	1015.305	1445.173
0.61957	1.09643	199.8082	217.5422	1.17835	0.38292	1.17835	178.571	210.4312
0.80856	0.94894	136.0708	128.9215	-1.12792	0.73305	0.88658	99.31222	88.26489
0.81286	1.03022	461.327	476.418	1.02381	0.81672	1.02381	886.6897	906.9974
0.26074	0.92883	946.8596	878.4674	1.28485	0.01039	1.28485	877.014	1123.436
0.33001	0.95404	6352.584	6065.817	1.9021	2.95E-31	1.9021	6032.008	11482.57
0.62897	0.95773	386.2238	369.4988	-1.23556	0.03156	0.80935	405.4071	327.9559
0.69883	1.04476	703.6914	741.4047	-1.0534	0.44067	0.94931	648.7592	616.2134
0.99614	1.00051	1518.933	1513.247	1.0051	0.93642	1.0051	1442.008	1451.888
0.00005	0.7996	2660.014	2126.193	1.93874	7.59E-41	1.93874	2249.748	4361.943
0.41453	1.06226	1186.602	1254.755	-1.09686	0.11203	0.9117	1304.773	1189.854
0.92028	0.99553	3417.689	3399.292	1.04297	0.47628	1.04297	3497.928	3630.827
0.00003	1.21543	14773.46	17964.8	-1.64549	8.05E-10	0.60772	17190.73	10437.47
0.72204	0.9321	493.3263	471.7131	-2.21138	1.47E-06	0.45221	352.053	159.5573
0.9947	1.00056	1760.005	1758.828	1.27328	0.00095	1.27328	1600.903	2041.592
0.00153	0.80845	2507.928	2025.744	-1.7233	5.67E-11	0.58028	2213.169	1283.518
0.66977	1.03981	2290.939	2385.632	1.40124	2.53E-07	1.40124	1996.094	2805.297
0.92884	0.97961	207.1921	201.3476	1.01628	0.93636	1.01628	198.1112	201.7307
0.92772	1.00414	2575.02	2588.283	-1.15513	0.01646	0.8657	2454.414	2117.202
0.85073	0.97629	1857.131	1819.742	1.4015	0.00004	1.4015	1667.1	2335.784
0.41457	0.89262	2841.375	2558.046	2.18179	3.79E-16	2.18179	2569.172	5655.153
0.47989	1.03302	5988.912	6189.19	1.14526	0.05046	1.14526	5789.644	6636.398
0.00063	1.27153	6535.278	8379.801	2.36686	1.39E-27	2.36686	6445.812	15291.38
0.09948	1.09427	2429.032	2664.176	1.13279	0.07878	1.13279	2159.314	2454.49
0.00477	0.73516	2434.593	1772.714	-1.17238	0.09482	0.85297	2077.24	1783.084
0.07918	0.83078	2554.472	2115.781	-1.00036	0.99511	0.99964	2320.537	2322.669
0.88989	1.01169	691.5824	700.8573	-1.06239	0.5013	0.94127	1417.493	1331.633
0.83221	1.03394	251.5327	259.9425	-1.12032	0.37883	0.8926	282.2195	252.0597
2.59E-07	0.76814	1318.062	1012.105	1.10352	0.16345	1.10352	1121.709	1235.794
0.48711	0.91871	278.2836	256.208	1.06108	0.66598	1.06108	261.0358	276.412
0.48245	1.42466	69.06815	94.2226	2.52032	0.04293	2.52032	58.78354	149.6826
0.65434	1.05098	1423.687	1493.336	-1.52352	0.00006	0.65637	2346.533	1551.13
0.00017	0.7301	13765.35	10027.13	-1.27749	0.00825	0.78278	11979.42	9336.197
0.89385	1.02998	235.1243	235.5026	1.52434	0.00869	1.52434	216.1579	327.4742
0.5583	1.02549	5076.466	5207.264	-1.167	0.00028	0.8569	5463.045	4681.375
0.84514	1.0471	153.9062	159.5482	-1.09919	0.65166	0.90976	162.0417	147.2788
0.4349	0.9282	4548.679	4263.076	-1.41405	9.09E-16	0.70719	4359.154	3082.648
0.95355	0.9892	196.6151	192.941	-1.00993	0.95114	0.99017	307.2399	307.3035
0.95913	0.99351	571.3181	561.455	1.19416	0.03546	1.19416	563.1332	671.0159
0.97466	1.00289	2582.204	2575.912	-1.28771	0.00066	0.77657	2820.621	2190.072
0.80228	0.97632	585.8919	569.152	1.24501	0.00512	1.24501	492.226	613.4706
0.50166	0.91159	2110.179	1924.154	1.1646	0.11716	1.1646	2019.746	2356.946

0.15371	0.82199	2932.021	2406.426	1.25499	0.04385	1.25499	2723.348	3437.594
0.00035	1.19126	1854.849	2208.166	1.05372	0.39587	1.05372	2151.469	2270.021
0.01605	0.65129	407.0384	260.566	1.88221	3.32E-06	1.88221	288.3502	544.9763
0.00556	0.72793	11535.4	8530.901	1.01739	0.83062	1.01739	5950.67	6025.747
0.64048	0.93827	253.2164	238.2176	-1.1186	0.54138	0.89397	273.2059	242.3895
0.27726	0.91788	7335.897	6786.367	1.4497	5.40E-10	1.4497	6817.745	9888.02
0.02504	0.74689	4789.135	3548.008	1.26372	0.01868	1.26372	3675.771	4681.727
0.63327	1.03203	3119.542	3203.023	-1.07997	0.09147	0.92595	3332.079	3087.725
0.33534	0.94005	3249.612	3060.666	1.19046	0.03996	1.19046	2746.542	3274.382
0.26531	1.05754	2736.822	2897.737	-1.06049	0.34685	0.94296	3303.12	3114.277
0.45591	0.94687	695.3868	660.1794	-1.04919	0.56809	0.95312	728.5126	692.4579
0.3065	1.08655	1222.043	1322.322	1.04278	0.45545	1.04278	1359.463	1419.69
0.17175	0.83451	261.6721	217.8488	1.38906	0.026	1.38906	234.4111	326.2351
0.16313	1.08483	1887.912	2045.96	1.01989	0.76025	1.01989	1756.808	1796.209
0.0619	1.15993	943.516	1092.24	1.85053	2.08E-14	1.85053	804.4047	1496.13
0.26163	0.86132	9065.599	7827.038	1.23848	0.07894	1.23848	7943.542	9943.195
0.02872	0.77264	4148.411	3206.594	1.32874	0.00022	1.32874	3425.177	4561.959
0.00007	1.38604	1258.216	1729.519	-1.13364	0.00877	0.88211	1944.909	1716.348
0.00104	1.24467	2208.243	2755.828	1.50574	1.29E-06	1.50574	2050.236	3085.149
0.27377	0.92921	819.5046	760.508	1.21985	0.00216	1.21985	706.259	860.8419
0.88494	1.05122	135.1335	135.9063	1.10186	0.73507	1.10186	134.7681	150.1783
0.34587	1.05329	8820.1	9320.614	1.00561	0.9456	1.00561	8972.292	8935.992
0.00383	0.83842	13055.98	10895.71	1.02564	0.79078	1.02564	13718.61	14056.95
0.51483	1.02967	1430.118	1472.654	1.17142	0.00362	1.17142	1431.261	1679.576
0.86025	1.03149	236.6774	244.941	1.03674	0.78679	1.03674	275.03	285.1504
0.06079	1.25268	36604.9	45620.34	-1.71325	0.00013	0.58368	46429.59	26458.94
0.18267	1.11163	2322.788	2535.934	-1.01073	0.81905	0.98938	3473.864	3432.764
0.06247	1.13396	3784.301	4240.349	1.08476	0.05894	1.08476	4715.351	5116.138
0.04127	1.14974	1802.081	2081.878	1.08192	0.22959	1.08192	1903.196	2054.486
0.09748	1.08799	6553.238	7129.604	-1.25818	0.02095	0.7948	7461.084	5910.012
0.75524	0.98409	6524.766	6417.434	1.2122	0.03222	1.2122	7624.715	9173.311
0.22591	1.07592	4826.834	5216.218	-1.01462	0.79115	0.98559	5171.425	5097.375
0.93648	0.94768	57.88072	56.10709	-1.29323	0.76908	0.77326	45.15929	34.79388
0.91969	1.01955	151.6015	154.9748	1.09349	0.76553	1.09349	143.9489	157.8662
0.79734	0.87622	62.20599	54.52918	-1.19821	0.83921	0.83458	43.5671	35.8304
0.53489	1.03997	3678.424	3829.903	-1.24431	0.00083	0.80366	3436.284	2762.232
0.40167	0.93016	1991.443	1854.896	1.73915	2.19E-15	1.73915	1774.196	3090.624
0.45046	0.94665	950.9771	896.7889	1.03188	0.63191	1.03188	889.0947	918.7596
0.34562	0.80877	476.8854	368.3007	1.51376	0.00052	1.51376	442.0656	673.3499
0.17587	1.10726	903.1242	996.2402	1.06701	0.23156	1.06701	969.3178	1033.846
0.14125	0.82075	518.4927	427.2311	-1.51857	0.00029	0.65851	720.8408	475.9005
0.00021	0.5761	14968.81	8562.223	1.19427	0.09114	1.19427	11290.87	13642.62
0.90935	0.98883	405.3809	401.7491	-1.18724	0.24553	0.84229	407.217	340.327
0.02223	1.12557	1443.135	1623.483	-1.02046	0.69574	0.97995	2486.463	2438.279
0.16352	0.81009	435.7224	347.9813	1.16172	0.26011	1.16172	371.4981	435.1348
0.63723	1.04586	555.7076	584.2249	1.05434	0.59054	1.05434	562.0877	590.5232
0.9802	1.00287	3570.589	3587.079	-1.02453	0.83715	0.97606	3372.563	3309.621
0.86251	0.92883	149.6875	127.1697	2.05945	0.00538	2.05945	120.1457	247.3461
0.12083	1.08376	985.8951	1069.158	1.02751	0.71368	1.02751	1087.939	1116.717
0.70553	1.06785	194.7241	207.1859	1.04444	0.82719	1.04444	185.0881	193.8285
0.95345	0.97509	70.38287	68.07405	1.22352	0.76424	1.22352	65.9181	76.02361
0.26349	0.78733	2537.958	1990.707	-3.19989	9.90E-11	0.31251	2396.206	714.4774

0.87701	1.01422	405.0273	410.5685	-1.07909	0.44127	0.92671	386.3412	357.8242
0.62088	1.03038	796.3936	819.7933	1.05238	0.58664	1.05238	853.2723	893.8914
0.93578	1.00831	330.6556	333.7642	-1.07362	0.4912	0.93143	352.1145	327.9746
0.81266	1.04228	183.6671	192.3128	-1.05264	0.837	0.95	174.3965	163.9198
0.57011	0.95739	674.2245	647.3567	-1.05159	0.7046	0.95094	656.1791	619.2593
6.43E-06	0.78903	1563.217	1233.675	1.10796	0.09491	1.10796	1361.406	1507.361
0.91924	1.00608	962.6256	970.2757	1.01202	0.81682	1.01202	997.1434	1009.052
0.95213	0.99408	333.1968	331.1064	1.05256	0.73449	1.05256	323.6563	337.5559
0.0752	1.42031	205.3218	285.0575	3.35282	1.41E-28	3.35282	163.5376	548.1705
0.90719	1.01139	1205.395	1218.717	-1.09257	0.1775	0.91528	1729.353	1581.957
0.14009	1.07907	1079.899	1166.14	-1.11629	0.22136	0.89582	1004.44	902.6368
0.01466	1.22866	14228.13	17423.86	-1.6972	0.00002	0.58921	19468.8	11227.29
0.7495	1.04981	221.2923	233.2826	-1.06754	0.79397	0.93673	192.419	177.4084
0.91525	1.02174	218.1764	222.4415	-1.20344	0.23165	0.83095	233.3478	193.9354
0.87626	1.03902	111.3573	115.6407	1.05193	0.88057	1.05193	108.3291	113.9968
0.35898	1.15407	189.805	218.3192	1.04329	0.82156	1.04329	199.9634	208.4278
0.54049	1.05248	817.8158	862.0662	-1.06919	0.24726	0.93529	1537.185	1439.888
0.40379	1.03694	2570.629	2664.427	1.00095	0.98511	1.00095	2616.376	2619.196
0.19064	1.06206	9599.783	10190.88	-1.1649	0.0012	0.85844	9849.947	8440.907
0.80002	1.02496	580.798	592.0217	1.31376	0.0006	1.31376	526.4656	690.6162
0.84484	0.76199	29.13905	23.49244	1.69877	0.73351	1.69877	17.46997	44.34388
0.33453	0.90875	380.7046	345.2174	1.13128	0.27799	1.13128	341.2386	386.8286
0.52992	0.84442	172.2641	149.2106	-1.37589	0.27494	0.7268	125.5897	91.19918
0.67069	1.02708	909.2076	931.8417	1.05192	0.32293	1.05192	996.7672	1048.671
0.73379	0.87739	104.7378	92.76552	-1.27088	0.5799	0.78685	100.2237	78.84329
0.89809	1.02288	451.949	471.9958	-1.46272	0.01731	0.68366	350.9973	238.1138
0.29333	0.89919	955.3336	865.4785	-2.05193	0.00153	0.48735	578.5361	289.072
0.02153	1.14468	5848.342	6747.762	-1.46632	0.00003	0.68198	7997.191	5396.897
0.44838	1.04235	1109.253	1155.959	-1.17427	0.0018	0.85159	1162.706	990.1296
0.06753	0.71186	2432.097	1722.714	-1.61034	2.18E-10	0.62099	1111.56	690.8898
0.30029	1.05921	1099.402	1163.925	-1.19033	0.01865	0.8401	1267.355	1062.16
0.03293	1.14577	1215.827	1393.102	1.62105	8.96E-12	1.62105	1196.672	1941.546
0.24372	1.08637	1208.953	1308.332	1.03154	0.50371	1.03154	1365.184	1408.192
0.00326	0.67418	933.988	620.8394	-1.08615	0.43682	0.92068	704.351	651.619
0.04111	1.10854	1393.158	1544.743	1.01604	0.7956	1.01604	1445.239	1464.855
0.53601	1.07834	383.98	411.9174	1.25112	0.0746	1.25112	311.6772	391.0992
0.17336	1.09993	2091.617	2293.922	1.04083	0.36198	1.04083	2495.075	2597.474
0.00009	0.83914	6003.601	5039.733	1.34015	0.00025	1.34015	5496.402	7381.431
0.68434	1.06723	264.9551	279.4022	1.29465	0.11435	1.29465	208.4624	269.1955
0.06338	0.79251	2725.245	2174.738	1.15365	0.08375	1.15365	2833.597	3256.718
0.55193	0.87097	163.896	143.2729	-1.63409	0.15138	0.61196	161.789	98.36497
0.00027	1.29488	629.2578	814.0648	2.29934	3.85E-14	2.29934	569.622	1308.678
0.00026	0.59412	2595.328	1525.125	-1.30161	0.00306	0.76828	1770.443	1363.165
0.10336	0.70804	205.8149	146.8467	1.21323	0.46504	1.21323	181.0074	214.4287
0.84615	0.93416	114.9114	108.7605	1.11169	0.68062	1.11169	153.7408	169.8889
0.67767	0.96603	547.7884	530.1131	1.00237	0.98184	1.00237	504.6838	507.9633
1	1	17.6838	23.49257	1	1	1	16.81857	30.41639
0.00424	1.13122	13083.22	14801.29	-1.43947	1.84E-09	0.6947	14464.05	10011.82
0.62417	1.07683	272.5245	296.4848	1.95867	0.00715	1.95867	212.4986	402.7676
0.00012	0.77843	782.0336	608.6962	-1.09317	0.37689	0.91477	751.8648	684.8908
0.00018	0.6191	6120.231	3758.593	-4.02385	2.55E-38	0.24852	4766.921	1181.802
0.70849	1.02121	842.5432	861.1417	1.02983	0.67601	1.02983	841.609	868.1818

0.85024	0.96428	225.5566	220.8857	1.1638	0.47415	1.1638	186.942	216.6363
0.00259	1.19603	6982.124	8299.904	-1.26462	0.00029	0.79075	9648.984	7602.653
0.00003	0.72834	17894.88	13023.33	1.0429	0.45348	1.0429	13583.54	14169.86
2.05E-09	0.72721	2575.903	1872.219	-1.35772	2.67E-06	0.73653	2149.761	1582.047
0.00016	0.64067	24363.63	15609.11	-1.42944	4.41E-15	0.69957	23683.47	16565
0.68459	0.95091	647.8002	621.8599	1.11256	0.27535	1.11256	450.8359	500.317
0.85742	1.00988	910.707	919.0416	-1.07912	0.19327	0.92668	924.0525	856.8792
0.43311	0.91794	831.6171	758.7833	1.66988	1.13E-15	1.66988	651.4873	1088.92
0.89716	1.0111	1569.417	1580.204	1.96454	2.14E-25	1.96454	1616.933	3177.551
0.82989	0.98793	1765.002	1748.706	1.06228	0.41094	1.06228	1681.162	1781.041
0.04771	0.85609	3634.516	3091.636	1.41242	0.00076	1.41242	3514.677	4985.996
0.91924	0.98995	353.3022	350.3694	-1.08271	0.52576	0.92361	347.1588	320.3546
0.28451	0.89578	495.0576	440.9955	1.10848	0.41048	1.10848	426.3693	470.6678
0.94607	1.08174	26.02647	28.15419	1.30242	0.80984	1.30242	30.70281	45.00674
0.77433	0.96981	798.5278	780.4086	-1.36684	0.00059	0.73161	729.5992	532.2493
0.88428	0.84156	32.98462	29.74734	-1.14907	0.90156	0.87027	33.30736	39.23685
0.34349	0.93043	1014.857	942.5465	-1.03689	0.5515	0.96442	907.6511	876.0529
0.04562	0.89243	1006.268	897.4072	-1.12952	0.0971	0.88533	966.468	854.7898
0.16651	0.82209	4725.393	3851.391	1.12876	0.33648	1.12876	4274.872	4890.003
0.17944	0.88895	436.4405	387.8873	1.12923	0.31484	1.12923	369.0703	418.8113
0.92333	1.01366	251.2941	253.7472	1.15327	0.34453	1.15327	235.1615	271.2706
0.77234	0.9086	146.0424	137.7344	1.05327	0.86741	1.05327	124.3683	130.9813
0.95013	0.9948	7420.005	7405.875	1.39595	1.26E-06	1.39595	6753.529	9423.926
0.5366	1.07967	418.8582	449.9919	1.10071	0.2295	1.10071	664.2905	730.0481
0.08696	0.73279	342.7658	247.3386	-1.09883	0.43177	0.91006	331.6202	302.1147
0.95016	1.00545	4616.152	4637.935	-1.54506	3.33E-11	0.64723	4612.096	2977.255
0.01089	1.20189	680.0571	819.4915	-1.19851	0.09661	0.83437	855.927	710.4475
0.00426	1.17123	27129.34	31822.34	1.64972	2.55E-10	1.64972	28886.02	47768.09
0.32586	1.11082	299.2888	332.7205	-1.07959	0.61456	0.92627	340.89	313.2772
0.8296	1.04567	178.058	184.6684	1.02503	0.90644	1.02503	188.5725	194.0765
0.18082	1.26504	195.1738	246.2813	1.56241	0.05983	1.56241	170.8833	265.9674
0.98757	1.00161	967.0271	965.1523	-1.04627	0.52347	0.95577	889.6443	851.9398
0.52859	1.06839	518.0557	549.8689	1.06244	0.40434	1.06244	1022.296	1090.086
0.00003	0.80543	2073.007	1669.295	-1.20846	0.01635	0.8275	1803.3	1491.559
0.34393	0.93595	3227.792	3022.415	-1.0598	0.4508	0.94358	2419.394	2276.132
0.73667	1.01795	9102.971	9240.867	2.45795	0	2.45795	6124.794	14959.5
0.51789	1.05319	5359.136	5656.089	-1.62437	8.71E-15	0.61562	5846.746	3600.481
0.21401	1.09562	6504.315	7158.12	-1.44928	3.31E-16	0.69	6307.128	4348.47
0.52777	1.0789	257.9647	278.0109	-1.34311	0.14577	0.74454	214.1434	158.7517
0.64934	1.06082	411.3586	431.6493	1.11687	0.26166	1.11687	463.4085	519.0878
0.58646	1.04627	5959.402	6228.474	1.02136	0.76599	1.02136	6213.956	6346.488
0.14537	0.77761	1934.525	1484.382	-1.24424	0.05195	0.8037	1502.506	1209.239
0.31655	1.05471	2962.659	3135.709	-1.02113	0.69304	0.97931	2986.641	2919.29
0.6475	0.78353	63.23838	49.67622	-1.01508	0.98167	0.98514	57.60288	56.67297
0.00188	1.23253	3394.036	4178.199	1.39941	0.0111	1.39941	3222.539	4565.157
0.01427	1.12384	4199.813	4717.401	-1.44364	6.54E-08	0.6927	5341.469	3679.875
0.8449	0.98554	672.4107	664.2112	-1.08249	0.38686	0.9238	601.7441	555.19
0.68883	0.96657	854.9512	829.1763	-1.49205	1.98E-06	0.67022	769.5544	514.541
0.02794	0.90582	1661.997	1505.28	1.14294	0.08892	1.14294	1394.106	1596.204
0.6124	0.92448	546.4908	514.1846	1.6732	0.00064	1.6732	479.5455	797.3353
0.80652	0.96609	346.6149	338.2678	-1.33165	0.10407	0.75095	352.0154	261.3712
0.55748	1.0989	198.3854	218.593	-1.20585	0.3159	0.82929	224.6442	186.5192

0.33304	1.0498	1633.154	1712.372	-1.099	0.03885	0.90992	1912.036	1739.501
0.17376	1.06141	6581.277	6977.888	1.01252	0.81585	1.01252	6791.93	6852.067
0.29884	0.90678	4379.279	3973.499	1.27824	0.00256	1.27824	4274.767	5502.468
0.78338	1.03088	365.681	378.8247	-1.17479	0.12884	0.85121	372.1574	316.571
0.90434	1.01349	369.4722	375.0598	-1.06294	0.56867	0.94079	664.5335	621.9896
0.89128	0.95912	110.0755	105.0698	-1.11743	0.76041	0.89491	99.21612	89.07637
0.8223	0.96959	1388.434	1362.878	-1.45895	7.44E-07	0.68542	1331.281	909.9759
0.09416	1.08071	1530.111	1653.574	1.53476	1.68E-13	1.53476	1353.738	2075.713
0.00012	0.71946	3303.477	2384.935	-1.2019	0.00562	0.83202	3039.986	2526.896
0.93995	1.0047	2614.757	2615.553	1.18032	0.00013	1.18032	2533.089	2989.142
0.98447	1.00172	2695.245	2700.675	1.53002	1.01E-13	1.53002	2633.867	4030.639
0.01468	0.72538	812.1183	582.062	-1.27876	0.05085	0.78201	654.5014	514.8605
0.43647	1.03488	1904.244	1971.227	-1.10296	0.11225	0.90665	1954.356	1768.449
0.97764	0.99428	188.2912	185.2874	1.25874	0.33947	1.25874	161.4645	200.8163
0.71955	1.02542	6297.925	6426.378	1.0071	0.86611	1.0071	6771.327	6820.294
0.51478	0.89013	324.3563	296.1157	-1.16742	0.12072	0.85659	419.0161	358.4669
0.88017	0.98409	698.5364	692.5832	-1.11722	0.29072	0.89508	685.3062	610.3815
0.02095	0.8463	1034.159	872.2053	-1.04697	0.4279	0.95514	861.8258	822.9207
0.85695	1.02389	630.2617	652.3497	-1.0723	0.51312	0.93258	700.553	653.3658
0.00605	0.87235	2278.219	1985.799	-1.48004	4.17E-12	0.67566	2112.621	1428.266
0.32679	1.06591	2951.608	3140.005	-1.0779	0.08507	0.92773	3232.763	2998.293
0.757	1.03859	235.7827	244.958	1.0311	0.8575	1.0311	228.4989	234.541
1	1	18.72733	23.94033	1	1	1	18.26773	32.85623
0.04276	0.81631	1390.969	1134.162	-1.16541	0.12706	0.85806	1337.289	1145.683
0.08806	1.09781	4823.249	5289.256	-1.07079	0.20076	0.93389	5674.979	5293.623
0.06554	0.82929	1910.154	1582.61	2.00265	5.24E-15	2.00265	1591.147	3200.371
0.2025	1.17906	740.3624	868.464	1.50515	4.30E-07	1.50515	654.4286	986.9288
0.78159	1.12978	68.52309	76.62344	2.09957	0.04046	2.09957	62.72468	131.7316
0.00517	0.8303	5163.577	4286.78	1.39966	0.00013	1.39966	4376.801	6122.23
0.22927	1.07405	2358.13	2535.965	-1.02553	0.72206	0.9751	2397.48	2330.76
0.48099	1.03399	2735.749	2833.937	-1.02137	0.76823	0.97908	2580.672	2510.393
0.33953	0.88829	1193.417	1056.688	1.36345	4.55E-06	1.36345	1370.235	1867.24
0.01405	1.11554	4769.148	5322.218	-1.24753	0.00175	0.80159	6399.306	5115.071
0.85333	1.05164	129.4413	137.2182	1.1633	0.54564	1.1633	129.0873	150.4181
0.84883	0.949	235.4854	235.5913	-4.29911	0.00044	0.23261	163.9718	37.9951
0.25127	0.8707	352.3804	305.2235	1.13011	0.39157	1.13011	282.1933	317.3887
0.79546	1.08089	149.8183	159.2635	-1.12457	0.52125	0.88923	279.4431	245.8454
0.87334	0.99032	403.0534	399.9876	-1.12754	0.10082	0.88689	368.4691	325.3987
0.96028	1.00936	207.8657	207.58	1.11284	0.60187	1.11284	175.016	195.653
0.89874	1.02169	247.9621	251.7251	1.00116	0.99053	1.00116	477.1079	476.3679
0.01345	0.72888	6816.457	4899.571	1.10817	0.3749	1.10817	5862.586	6467.824
0.01095	1.13699	1867.171	2126.283	1.00116	0.97968	1.00116	2004.288	2005.758
0.52142	1.03698	667.1295	691.846	-1.01842	0.85589	0.98191	474.0443	466.9104
0.00716	0.7416	2476.531	1822.262	-1.07765	0.09769	0.92795	2095.2	1944.084
0.96109	0.99212	178.56	176.9045	-1.07227	0.76269	0.9326	178.7641	165.4629
0.3844	0.94964	1833.159	1743.356	1.18596	0.00917	1.18596	1654.471	1963.519
0.00023	0.767	3892.713	2990.217	-1.07588	0.22787	0.92947	3504.948	3256.429
0.88667	0.9878	474.6622	470.1098	1.00646	0.94952	1.00646	391.9357	393.8594
0.96927	0.95684	31.20387	28.67656	1.40528	0.7553	1.40528	25.10559	34.90466
0.60695	1.10735	658.9149	747.3536	-2.87631	1.44E-06	0.34767	433.5323	147.2783
0.8632	1.01703	5560.793	5632.809	1.54457	4.03E-10	1.54457	4431.835	6861.644
0.00038	0.74942	594.9674	444.9322	1.24942	0.03461	1.24942	506.6936	635.8806

0.00162	0.82624	1151.259	951.7576	1.06317	0.58548	1.06317	1030.842	1094.626
0.44477	1.1703	169.7183	197.4986	-1.14064	0.67627	0.8767	186.6741	162.1248
0.98662	0.99902	1291.54	1294.34	-1.06751	0.29977	0.93676	1202.62	1125.81
0.18421	1.10158	569.7127	626.8763	1.39021	0.01123	1.39021	507.931	701.8804
0.01528	1.12546	1147.391	1291.295	1.03681	0.5825	1.03681	1246.811	1291.01
0.94161	0.98139	191.8969	191.7929	-1.03995	0.84146	0.96159	203.605	195.6137
0.9909	0.9986	515.5444	518.4163	-1.17101	0.2089	0.85397	486.2996	412.1761
0.98574	1.0038	179.5724	178.1412	1.28018	0.18942	1.28018	163.5689	209.2042
0.38717	0.90528	2168.97	1975.935	1.16372	0.03679	1.16372	1994.544	2328.692
0.00269	0.73271	1710.792	1243.989	-1.04907	0.44922	0.95322	1378.162	1316.258
0.01237	0.75347	3590.348	2720.499	-1.08424	0.37075	0.92231	1796.831	1655.065
0.17776	0.89859	891.2905	802.9596	1.25217	0.00289	1.25217	823.8995	1029.083
0.44538	1.05349	1583.49	1669.959	1.65243	4.38E-14	1.65243	1334.786	2210.247
0.87022	1.04206	155.8755	165.4746	1.0919	0.82642	1.0919	112.6644	119.6971
0.85759	0.97878	369.8801	364.5031	1.6429	2.92E-06	1.6429	311.9573	513.6102
0.25667	1.10193	1707.963	1893.306	2.26526	0	2.26526	1401.728	3177.992
0.22585	1.08453	1093.317	1182.483	1.17421	0.00345	1.17421	1076.55	1265.177
0.69677	1.03005	2491.796	2540.035	1.0594	0.30875	1.0594	2707.828	2870.366
0.06382	1.11002	6594.358	7329.114	-1.05823	0.46188	0.94497	7869.484	7411.028
0.11746	1.1282	579.2918	652.726	1.83602	5.98E-09	1.83602	452.068	827.158
0.90876	1.01404	797.7416	801.1237	-1.12058	0.21854	0.8924	790.3097	707.2952
0.12587	1.11943	935.6337	1048.55	-1.02982	0.6348	0.97105	1532.651	1486.616
0.31486	1.06869	3876.41	4138.712	-1.27461	0.00375	0.78455	3771.123	2980.454
0.88197	0.97916	435.6791	421.3091	1.24877	0.06277	1.24877	379.989	476.5452
0.00007	0.72353	5404.134	3917.117	-1.04301	0.63395	0.95877	5112.777	4875.818
0.19151	0.91566	827.0912	756.5785	1.16909	0.01499	1.16909	656.0714	766.5246
0.42081	0.94365	1160.515	1093.429	-1.10251	0.05372	0.90702	1177.539	1067.787
0.85926	0.98562	13489.24	13383.63	1.07953	0.15585	1.07953	12377.08	13371.78
0.0957	1.09778	4504.806	4955.161	1.00239	0.96766	1.00239	5445.92	5456.615
0.60883	0.90869	565.884	501.1944	1.15438	0.1313	1.15438	488.2598	562.1713
0.55613	0.88905	200.8365	180.2902	1.14255	0.43025	1.14255	207.4952	236.2653
0.02313	0.84364	1612.984	1359.459	-1.08165	0.28898	0.92451	1449.498	1335.858
0.00008	0.67036	1371.231	916.6196	-1.3218	0.00125	0.75654	1112.106	843.0403
0.64781	1.08017	324.7109	345.222	1.5291	0.00098	1.5291	265.6771	406.9498
0.89197	1.03813	135.634	139.1202	1.85671	0.03646	1.85671	106.7579	197.3956
0.78984	0.97356	866.6434	840.4638	1.55144	5.88E-10	1.55144	754.9111	1173.173
0.03774	0.82148	1066.006	871.558	-1.58768	0.00001	0.62985	922.8877	583.2512
0.03555	1.12872	1496.262	1685.076	1.1733	0.00105	1.1733	1634.374	1918.409
0.11834	0.87649	2029.257	1772.652	-1.03932	0.6833	0.96217	1794.676	1721.735
3.30E-25	0.62085	8991.959	5584.628	-1.06958	0.22685	0.93495	6462.633	6041.614
0.16924	1.09692	3452.052	3787.72	1.50201	4.56E-17	1.50201	3402.24	5112.535
0.00891	0.84861	1925.014	1634.523	1.0045	0.95995	1.0045	1729.196	1736.158
0.6542	1.08646	190.2859	205.0764	-1.1134	0.67454	0.89815	158.1791	141.135
0.82148	1.01807	1305.456	1327.116	1.05703	0.30657	1.05703	1190.092	1257.477
0.43939	1.04489	4926.626	5135.87	-1.02276	0.6024	0.97774	4674.78	4568.16
0.54509	0.80957	170.0058	130.5566	1.13134	0.58409	1.13134	143.3797	162.5738
0.74946	1.03748	1508.865	1577.921	1.58871	8.89E-13	1.58871	1442.481	2289.93
0.53579	1.02657	4711.667	4836.442	1.09147	0.12052	1.09147	4363.092	4757.637
0.00003	0.49987	10659.15	5084.74	-1.15291	0.43226	0.86737	5903.399	5157.637
0.80919	1.0209	1543.03	1589.209	-1.13792	0.19823	0.87879	1508.235	1318.849
0.9118	1.00456	3797.637	3814.658	1.03643	0.4565	1.03643	3601.349	3735.967
0.23893	0.90364	1647.698	1488.022	-1.54081	1.66E-07	0.64901	1589.01	1033.415

0.35772	0.80349	423.0381	354.5515	-2.27303	0.00268	0.43994	212.2572	93.63649
0.08317	1.24987	17118.89	21087.46	-2.2311	8.05E-12	0.44821	30341.45	13395.46
0.01049	1.11949	1696.78	1899.276	-1.50481	5.16E-07	0.66453	2413.865	1591.031
0.13815	1.08	3559.011	3842.227	-1.12024	0.06764	0.89267	4065.8	3603.275
0.81292	1.37375	23.51549	31.47736	1	1	1	23.12706	32.50983
0.02395	0.85876	2123.043	1825.062	1.10417	0.13977	1.10417	1875.226	2070.435
0.55158	0.77444	82.76559	63.44047	1.68066	0.36546	1.68066	61.75056	106.041
0.72251	0.91791	2278.39	2036.668	-3.10052	1.73E-39	0.32253	1747.954	563.4775
0.4045	0.85385	3363.292	2829.037	-1.04308	0.5539	0.9587	2150.456	2065.223
0.88711	1.01249	2890.299	2957.96	1.23878	0.00239	1.23878	2751.772	3411.575
0.19328	0.75803	448.7613	352.1261	-1.66239	2.65E-06	0.60154	462.2554	278.4888
0.92827	0.98148	228.1271	220.481	1.33218	0.05437	1.33218	201.6167	269.0232
0.30132	0.94781	1886.48	1788.553	-1.06776	0.19125	0.93654	1341.026	1256.377
0.11108	1.09356	1011.447	1105.628	1.15303	0.05243	1.15303	1011.29	1168.031
0.14933	0.8387	4379.508	3687.526	1.19217	0.07889	1.19217	4431.287	5245.237
0.47518	1.09203	269.3811	295.0659	-1.0441	0.80114	0.95776	257.2866	245.0571
0.54931	0.88344	6254.022	5338.309	-2.88398	0	0.34674	5966.706	2065.001
0.41329	1.11145	665.1965	746.2851	-1.27703	0.04385	0.78307	587.8142	462.39
0.00273	0.54038	775.332	405.1684	1.60691	0.00205	1.60691	530.9058	865.3176
0.8568	1.01222	769.4335	777.4482	1.25141	0.00203	1.25141	694.9806	868.2828
0.68653	1.36177	43.39714	58.25175	-1.36359	0.78598	0.73336	31.03401	32.44238
0.53255	1.03951	596.0818	619.7549	-1.01388	0.86037	0.98631	520.6719	513.521
0.39311	1.05845	1702.789	1796.187	-1.00426	0.92826	0.99576	1877.101	1867.929
0.00001	0.49996	3435.508	1677.134	-4.61657	3.20E-25	0.21661	1763.248	382.8138
0.87323	1.146	33.55198	39.1222	-1.14267	0.89982	0.87514	37.73676	32.59698
0.69223	0.93547	233.475	216.7398	1.4622	0.04905	1.4622	181.8965	265.6134
0.80473	1.086	97.83197	106.5519	1.27462	0.3612	1.27462	139.7258	179.5218
0.80419	0.89844	88.69349	81.22751	-1.05187	0.92743	0.95068	67.53702	64.44542
0.89604	1.01961	610.4597	628.8605	-1.37305	0.05706	0.72831	568.5618	411.1025
0.03836	0.76197	1884.857	1423.748	1.19025	0.09071	1.19025	1484.06	1773.938
0.56336	1.09082	621.2197	669.2571	1.20466	0.01313	1.20466	538.804	649.6403
0.48293	1.05929	474.1378	503.2475	1.20425	0.0404	1.20425	453.9222	545.5505
0.74009	1.01506	4372.93	4436.675	-1.08098	0.06819	0.92508	4431.412	4098.387
0.78389	0.98221	1004.095	985.2181	1.46741	1.10E-09	1.46741	931.7315	1365.83
0.45539	0.94201	6715.548	6353.692	1.57366	5.76E-20	1.57366	5741.313	9035.892
0.06728	0.90687	6683.523	6072.194	1.43338	2.96E-07	1.43338	7979.011	11391.31
0.54356	1.04386	1479.308	1537.659	-1.14362	0.00688	0.87442	1553.403	1357.908
0.41657	1.04171	5418.167	5651.86	-1.11478	0.01079	0.89704	5889.395	5282.69
0.55057	1.07513	365.7252	395.8583	-1.12189	0.505	0.89135	327.114	288.9428
0.05821	1.09969	2679.866	2942.342	1.1545	0.00723	1.1545	2714.279	3134.958
0.68175	0.96075	430.7416	412.4609	2.75013	6.77E-28	2.75013	381.0803	1046.058
0.87112	1.06618	120.2809	123.8779	1.08912	0.794	1.08912	109.2554	118.0473
0.10502	0.81853	1035.612	843.2889	1.67378	4.91E-13	1.67378	817.676	1366.875
0.02434	0.86745	829.469	719.0106	-1.57754	0.00049	0.6339	474.0644	298.5917
0.87837	1.02169	299.3803	303.705	-1.13068	0.30166	0.88442	302.0295	267.0704
0.90259	1.19008	21.66899	27.13006	1.18457	0.92221	1.18457	21.96968	32.04308
0.84543	0.98723	2932.598	2889.999	1.58757	8.66E-18	1.58757	2775.471	4416.07
0.65515	1.05179	822.6008	861.3185	-1.09854	0.29797	0.9103	751.913	686.5077
0.11652	1.12052	4423.069	4964.612	-1.35352	1.09E-08	0.73881	5023.503	3720.875
0.27588	0.92814	3377.063	3130.474	1.04759	0.40409	1.04759	3077.504	3228.807
0.01087	0.82376	5280.921	4352.569	1.38823	2.20E-07	1.38823	4288.769	5961.705
0.43139	1.07949	366.8652	395.2711	1.28008	0.04568	1.28008	324.0101	412.9478

0.49087	1.08099	428.775	460.3375	1.00161	0.98973	1.00161	386.703	385.919
0.33221	1.05365	1624.934	1716.047	-1.02062	0.66572	0.97979	1723.339	1687.665
2.46E-13	0.71502	1792.789	1281.876	-1.02517	0.60264	0.97545	1573.66	1535.099
0.8966	0.98519	388.5024	380.726	-1.0183	0.85895	0.98203	383.4158	376.9125
0.68536	0.84587	82.55058	69.57738	1.03945	0.93833	1.03945	67.01895	69.1839
0.42554	1.08067	2038.533	2204.625	-1.23722	0.01726	0.80826	3280.13	2685.125
0.01431	1.1197	10036.07	11235.02	1.17064	0.02335	1.17064	11629.54	13595.34
0.18518	1.10295	1379.001	1525.152	-1.0812	0.38587	0.9249	1730.592	1603.506
0.39358	1.07301	4249.471	4578.565	-1.03487	0.76576	0.9663	4313.438	4168.089
0.5786	0.94135	645.0322	611.6459	1.01647	0.86776	1.01647	536.1306	546.885
0.13891	0.83746	6202.499	5169.989	1.20356	0.00102	1.20356	5107.188	6163.903
0.74661	1.0408	527.614	544.0442	1.19986	0.06682	1.19986	436.3603	523.1893
0.01453	1.09966	789.9645	868.7783	1.26289	0.00004	1.26289	751.2136	949.4824
0.97186	0.99075	160.1623	158.5042	-1.06786	0.78829	0.93645	176.0058	166.3325
0.45596	1.06868	495.188	530.2089	-1.05341	0.4729	0.9493	827.5823	787.1014
0.94162	1.03701	80.97486	85.28826	-1.00519	0.98596	0.99484	118.0223	117.9256
0.80366	1.03342	390.7355	399.261	-1.08549	0.32529	0.92124	563.1787	519.6559
0.00013	0.63721	34179.81	21779.6	-1.40672	3.71E-11	0.71087	34559.95	24553.14
0.41338	1.08778	621.8353	672.1116	-1.07539	0.43932	0.92989	466.0396	434.1454
0.00002	0.80567	3745.372	3016.251	-1.05533	0.34427	0.94757	3196.181	3026.977
0.55609	1.03525	698.6183	723.3353	1.76477	0.00014	1.76477	598.3596	1054.918
0.69495	1.06481	242.6249	257.9799	-1.0711	0.76995	0.93362	246.7959	226.8873
0.75864	0.93572	334.5071	300.478	2.01707	0.00003	2.01707	303.0842	620.1763
0.14165	1.25421	48225.88	58921.92	-2.15441	2.62E-06	0.46416	76932.66	34534.24
0.17533	1.17565	425.543	496.6387	-1.02542	0.6462	0.97521	910.298	887.5223
0.39486	0.84628	244.0063	203.4628	1.18377	0.36461	1.18377	202.9305	240.4965
0.00083	0.77378	10456.89	8088.463	1.14674	0.07279	1.14674	9105.876	10445.03
0.97821	1.00328	317.6023	317.2046	-1.03718	0.79471	0.96415	319.4572	309.5624
0.09866	0.89292	1512.845	1345.741	-2.06679	2.19E-22	0.48384	1405.016	681.0776
0.90536	0.99225	2586.005	2578.403	-1.1716	0.01804	0.85353	2569.296	2193.584
0.23206	1.06975	1588.906	1698.653	1.49371	1.96E-12	1.49371	1475.787	2202.8
0.67149	1.03378	2681.559	2780.058	-1.44565	2.63E-10	0.69173	2938.059	2028.971
0.20708	1.11509	903.8171	1014.63	1.1281	0.23334	1.1281	906.5313	1021.883
0.0013	1.18992	4796.313	5720.838	1.62099	1.52E-08	1.62099	4256.494	6918.19
2.41E-07	0.76993	2990.296	2304.737	-1.15016	0.02677	0.86944	2574.575	2238.65
0.72499	1.04714	273.5948	285.131	1.09625	0.20224	1.09625	717.7332	785.7478
0.05755	0.5692	341.1168	185.2397	1.02646	0.90149	1.02646	222.3384	229.6906
0.86969	1.02216	751.045	775.2531	-1.44967	0.01889	0.68981	558.793	385.7199
0.57373	1.03801	980.2488	1018.067	1.2713	0.00289	1.2713	835.9417	1059.829
1	1	19.07658	23.86876	1	1	1	17.93464	30.23
0.04622	1.20068	12024.74	14499.79	-1.3524	0.00679	0.73943	15620.63	11416.65
0.23401	1.07792	2099.566	2248.042	1.02001	0.65072	1.02001	2513.174	2563.712
0.04291	1.24258	3208.186	3972.805	-2.38402	2.62E-09	0.41946	4872.712	2038.068
0.98663	1.01741	33.3503	34.15137	1	1	1	21.11483	33.92817
0.67974	0.88134	208.7309	191.91	-1.2559	0.59843	0.79624	182.443	133.9462
0.63357	0.96401	522.6985	502.9795	-1.20667	0.36889	0.82872	387.0263	324.5448
0.87776	0.9818	288.2853	283.8794	-1.27249	0.10722	0.78586	260.4176	204.9911
0.00582	1.22	2454.746	2995.922	-1.54827	0.00008	0.64588	2771.162	1793.82
0.00735	0.89018	3720.75	3311.478	-1.03233	0.58005	0.96868	3407.842	3295.489
0.63448	0.93676	310.7037	293.1484	-1.05314	0.76915	0.94954	230.1523	219.5587
0.00557	1.17579	7546.354	8850.355	1.69925	2.30E-06	1.69925	6574.078	11325.92
0.55743	1.0712	494.1151	524.9076	1.04567	0.74817	1.04567	529.5806	556.1909

0.67474	0.96489	1164.135	1121.709	1.01634	0.82371	1.01634	882.4401	898.8651
0.17122	0.88557	5737.792	5099.032	1.08603	0.21896	1.08603	5224.973	5687.542
0.37645	0.91963	1611.332	1477.992	1.31318	1.43E-08	1.31318	1427.245	1874.927
0.56905	1.12355	154.5031	173.2966	1.05845	0.78813	1.05845	180.8603	192.669
0.55195	1.06367	539.2014	569.9398	-1.10789	0.17915	0.90262	723.1992	653.6931
0.61041	0.89232	294.6525	270.2448	27.78911	0	27.78911	284.4656	7915.125
0.08323	0.84619	4155.915	3545.341	1.02996	0.52735	1.02996	3306.912	3404.095
0.59534	1.14368	148.8396	167.2057	1.76661	0.00689	1.76661	132.5271	233.0703
0.07893	0.89103	836.9141	747.1003	1.10354	0.24413	1.10354	958.0726	1059.53
6.45E-07	0.70882	2885.826	2040.273	-1.20676	0.11632	0.82866	2512.428	2065.52
0.83932	0.98687	3601.094	3547.054	1.41343	1.20E-16	1.41343	3448.057	4873.684
0.00286	0.57946	5078.447	2867.705	-1.11344	0.26247	0.89812	3224.505	2910.399
0.70204	0.98174	1390.919	1365.128	-1.11226	0.10719	0.89907	1804.444	1620.875
0.64613	0.96343	727.457	703.6635	-1.02328	0.74887	0.97725	733.0332	715.3736
0.24654	1.11325	1777.387	1988.439	1.46511	1.95E-10	1.46511	1495.127	2188.627
0.63891	1.05212	607.0433	634.0775	1.2421	0.02081	1.2421	565.8067	705.319
0.82867	0.98867	920.0731	909.7638	-1.27159	0.00047	0.78642	924.3633	726.0087
0.00116	1.15871	7283.098	8450.718	-1.0606	0.34729	0.94286	10638.52	10005.97
0.10429	0.89905	2411.7	2172.879	-1.00671	0.93228	0.99333	2113.388	2093.941
0.02347	1.11257	10254.16	11415.2	-1.41776	9.26E-17	0.70534	10423.75	7351.417
0.00626	1.24074	2653.656	3291.193	-1.83763	9.87E-24	0.54418	2728.729	1484.085
0.89155	0.97617	223.6182	220.4804	-1.08202	0.73702	0.9242	159.7835	147.4182
0.97831	0.99838	1097.739	1095.422	-1.04601	0.61552	0.95601	913.3506	877.2092
0.55304	0.94328	522.8456	490.6314	1.10019	0.48277	1.10019	490.5844	534.8646
0.02114	0.81274	528.3591	428.5841	3.6348	0	3.6348	530.9463	1930.024
0.00106	0.72425	1083.804	780.9069	-1.07778	0.2242	0.92784	901.6631	837.0608
0.23165	0.9492	7416.595	7042.034	1.70554	2.69E-16	1.70554	6067.973	10355.02
0.31694	1.05909	697.3982	738.2598	1.09152	0.39468	1.09152	627.6116	688.2645
0.14229	1.10492	10157.28	11185.33	-1.24779	0.00386	0.80142	11926.17	9532.241
0.66532	1.03852	500.9499	521.8113	-1.21069	0.05125	0.82598	515.096	424.3686
0.04004	0.80281	1007.213	808.1629	1.20845	0.00015	1.20845	1174.845	1419.738
0.87895	0.9846	515.0386	509.9675	-1.36251	0.01393	0.73394	493.9409	361.951
0.19138	0.88418	357.9494	316.822	-1.03963	0.75014	0.96188	306.1183	294.2139
0.56075	1.02775	3409.531	3507.627	-1.00444	0.94143	0.99558	3363.705	3341.555
0.2531	0.93834	849.8536	797.0726	-1.01668	0.81783	0.9836	833.864	819.0434
0.69968	1.02469	593.8613	608.9218	1.16765	0.0183	1.16765	594.588	694.4634
0.44679	1.07593	2016.854	2181.839	-1.12386	0.00678	0.88979	3742.094	3330.649
0.12606	0.89056	5478.382	4914.604	-1.3261	0.00204	0.75409	4748.013	3570.33
0.98791	0.99904	1586.153	1585.132	1.31761	0.00001	1.31761	1475.79	1944.771
0.43632	1.0865	1000.966	1079.147	1.18579	0.01461	1.18579	1090.31	1294.896
0.00064	0.59266	1642	953.6367	-1.21266	0.02015	0.82463	1177.658	972.9255
0.217	1.05518	9296.372	9819.143	-1.08195	0.15629	0.92426	9383.828	8679.837
5.76E-20	2.02203	186924.9	378560.6	-1.10525	0.16028	0.90477	308208.8	274833.8
0.27446	1.05007	1541.812	1618.662	-1.08237	0.09004	0.9239	1581.125	1460.605
0.73647	0.96691	1365.873	1315.812	1.38978	3.12E-06	1.38978	1278.79	1780.356
0.3504	1.07095	888.8141	951.7314	1.03767	0.54464	1.03767	1273.301	1320.745
0.13178	0.92614	3513.35	3244.697	-1.13115	0.04666	0.88405	4107.806	3638.136
0.09237	1.11036	12432.17	13861.6	-1.11159	0.03292	0.89962	12439.55	11174.58
0.17704	1.13227	3118.745	3552.188	-1.59022	0.00004	0.62884	3803.144	2363.248
0.78047	1.06136	174.025	182.607	1.44942	0.16205	1.44942	130.397	186.8653
0.90492	1.01274	819.0023	834.9789	-1.12859	0.05636	0.88606	682.8926	605.2038
0.95487	0.99698	3461.854	3436.829	-1.03576	0.41488	0.96548	3570.401	3445.267

0.25647	1.12039	512.7422	571.2302	1.01052	0.91016	1.01052	605.1867	612.0031
0.49336	2.19298	19.08447	40.43633	1.43281	0.8242	1.43281	17.95389	37.19667
0.98707	1.00094	2189.646	2184.797	-1.09222	0.07592	0.91556	1898.454	1739.318
0.76189	1.03198	408.1191	419.201	1.42692	0.00007	1.42692	412.604	587.7007
0.44707	0.84673	814.9404	696.4533	-2.38378	9.39E-11	0.4195	885.0789	367.7297
0.8833	0.99196	2132.67	2122.687	-1.12564	0.01524	0.88838	2191.927	1946.33
0.45909	0.94376	7240.193	6826.591	1.12091	0.04548	1.12091	6797.737	7633.397
0.85886	0.97863	493.834	478.2585	1.04136	0.64083	1.04136	744.6692	777.9688
0.55073	1.09849	226.4687	249.6645	-1.1024	0.54237	0.90711	220.6978	200.0152
0.72842	1.01719	1693.969	1720.49	1.03483	0.6115	1.03483	1570.699	1627.995
0.00104	0.65694	1925.249	1255.387	1.08621	0.46494	1.08621	1471.75	1605.132
0.77461	1.02262	2618.427	2697.797	1.22625	0.00033	1.22625	2888.72	3542.724
0.38199	1.04489	1052.736	1099.881	1.00275	0.97365	1.00275	1080.11	1079.278
0.7906	1.14448	76.19055	83.48286	1.00083	0.9982	1.00083	126.0135	126.5224
0.38032	1.10151	288.8853	317.6117	-1.13039	0.39601	0.88465	282.8427	249.5114
0.05154	1.10553	4771.651	5270.954	-1.18665	0.00004	0.84271	5420.573	4567.944
0.7059	1.04144	674.635	708.1779	-1.25254	0.06808	0.79838	689.4667	545.7233
0.59482	0.934	1606.099	1490.54	-1.73855	6.25E-20	0.57519	1582.427	909.4974
0.01082	0.70406	293.0142	205.6018	-1.33565	0.13597	0.7487	247.5183	184.0912
0.15069	0.87283	2809.18	2448.813	1.29046	0.00357	1.29046	2400.012	3102.608
0.21073	1.07555	1064.809	1145.749	-1.19992	0.06445	0.83339	1158.365	961.4478
0.00012	0.57893	5369.658	3074.537	-1.00352	0.96822	0.99649	3895.376	3884.264
0.97254	0.98379	61.46687	60.76037	-1.01831	0.9744	0.98202	55.32339	54.39388
0.96833	0.99669	417.0077	415.3846	-1.18129	0.16351	0.84653	393.8041	332.3867
0.8386	1.03436	201.5459	207.8461	-1.12587	0.61879	0.8882	189.3772	166.6075
0.04526	1.23864	525.5775	646.9053	2.06575	7.42E-08	2.06575	401.6735	825.3451
0.00005	0.76312	1981.567	1512.586	-1.10097	0.30748	0.90829	1714.346	1558.06
0.81809	0.98607	852.1699	841.4774	1.00803	0.90062	1.00803	828.6256	835.7806
0.50883	1.06343	454.4405	481.4684	-1.0406	0.68418	0.96098	464.5829	445.3931
0.04767	1.11977	1843.944	2063.202	-1.45479	1.35E-07	0.68738	2257.777	1545.677
0.53176	1.04059	6727.311	6981.639	1.06961	0.148	1.06961	7174.711	7668.319
0.87239	0.95044	93.26826	88.3024	1.18627	0.7246	1.18627	76.46805	91.37605
0.04289	1.23462	551.2929	676.5872	1.42774	0.00032	1.42774	558.199	794.1399
0.89814	0.98991	1066.165	1052.478	1.03478	0.66898	1.03478	1087.118	1126.974
0.89532	1.01781	378.9769	387.4742	-1.03321	0.7094	0.96786	480.0982	464.0912
0.20564	1.0728	6435.331	6899.184	-1.0872	0.0575	0.9198	7193.432	6617.889
0.3975	1.04779	7320.523	7663.493	-1.20325	0.00021	0.83109	7504.049	6252.317
0.00698	1.20937	2196.768	2663.342	1.39736	1.14E-09	1.39736	2109.106	2945.688
0.79657	0.98024	1344.516	1324.621	-1.0871	0.35424	0.91988	1495.631	1364.78
0.00225	0.85051	2145.121	1823.116	-1.01905	0.74821	0.98131	1978.788	1944.399
0.37472	0.94405	1725.166	1635.12	-1.09401	0.12779	0.91407	1594.536	1455.349
0.81892	1.04104	1676.016	1796.76	-1.51354	0.00006	0.6607	1730.531	1134.644
0.91348	1.01268	631.3337	643.9982	1.01183	0.8586	1.01183	962.1396	971.7659
0.56808	1.06191	1316.747	1389.956	-1.51697	4.22E-12	0.65921	1184.775	781.2489
0.00014	0.66613	1171.819	773.5658	-1.28917	0.00484	0.77569	921.6258	717.0977
0.72143	1.01764	4441.638	4542.413	-1.03073	0.57654	0.97019	4800.88	4624.941
0.48736	1.08371	406.5172	437.7136	1.07175	0.53372	1.07175	438.5302	471.9642
0.92909	1.00943	507.2633	509.068	-1.08878	0.39748	0.91846	507.3096	466.0076
0.90868	1.00704	984.1998	989.2358	1.01891	0.80518	1.01891	887.6971	902.7005
0.00922	0.79141	686.2348	544.7281	-1.03136	0.67888	0.9696	721.479	698.5122
0.33495	1.07228	825.2964	887.515	1.15191	0.02353	1.15191	844.8237	972.2158
0.61127	0.80148	83.21886	65.8578	1.05701	0.93171	1.05701	62.29204	66.54072

0.73312	1.08188	130.0389	141.144	-1.1327	0.74442	0.88285	124.0955	109.228
0.52486	1.13715	255.7104	296.1699	-1.12097	0.33596	0.89208	331.3342	295.4659
0.99071	0.99865	301.1997	299.8677	-1.08124	0.56654	0.92487	250.9399	232.1986
0.29661	0.79741	169.6833	135.2101	-1.02602	0.92605	0.97464	147.9888	142.8283
0.26256	0.94453	1448.645	1368.475	1.17769	0.00146	1.17769	1818.39	2142.307
0.80594	0.98119	573.7848	561.8522	-1.10968	0.4831	0.90116	505.0291	457.405
0.85478	1.11278	49.8457	54.8303	-1.2336	0.82985	0.81063	41.65346	37.00737
0.26417	0.9219	3773	3466.921	-2.06708	2.25E-38	0.48377	3803.44	1839.531
0.3278	1.17744	373.7247	431.0832	-1.20833	0.11849	0.82759	471.8159	388.019
0.82482	1.047	159.6281	168.3088	1.07458	0.5819	1.07458	387.1807	413.2867
0.28259	1.06078	1148.575	1216.76	1.0192	0.71235	1.0192	1295.518	1321.081
0.56525	0.96656	2729.315	2630.292	-1.01084	0.88152	0.98928	2481.436	2462.372
0.36945	1.04111	2018.725	2101.265	1.03977	0.43284	1.03977	2400.976	2498.183
0.38718	0.95139	4256.138	4053.091	1.27609	4.62E-08	1.27609	4000.501	5105.07
0.00477	1.13623	1867.732	2122.484	-1.16582	0.00232	0.85777	1864.762	1598.057
0.58758	1.03542	3123.974	3227.3	-1.07781	0.13747	0.92781	3295.252	3062.273
0.7189	0.96173	471.6346	456.6443	1.12693	0.28723	1.12693	501.3616	568.2611
0.46053	1.07351	893.0197	953.7702	1.06521	0.49353	1.06521	832.2002	889.1224
0.86053	1.01894	471.6664	483.7329	2.15062	1.23E-13	2.15062	450.5266	966.3595
0.92825	0.98394	159.0688	156.6512	-1.08406	0.58147	0.92246	363.9678	334.8993
0.34096	0.9307	1055.515	982.3951	-2.36676	1.68E-27	0.42252	851.8358	359.609
0.14339	0.93215	17415.84	16231.75	1.00162	0.97679	1.00162	17488.65	17531.51
0.02244	0.81592	588.9912	478.8601	-1.8911	5.86E-08	0.52879	500.8756	265.6141
0.3056	1.05748	2149.323	2276.103	-1.00009	0.99899	0.99991	2459.428	2459.704
0.50048	0.89641	12640.49	11403.81	-1.23963	0.07779	0.80669	11325.27	9079.924
0.08389	0.80455	1296.691	1037.149	-2.85425	1.50E-10	0.35035	1068.609	374.7968
0.0731	1.12152	7113.186	8000.212	1.25378	0.00026	1.25378	7748.988	9705.932
0.05505	1.13698	558.9607	635.7593	-1.0457	0.62374	0.9563	622.2671	593.2523
0.53905	1.03021	5018.441	5164.019	-1.04406	0.40345	0.9578	5341.234	5108.206
0.04724	0.83405	843.1862	700.5995	-1.79826	1.46E-06	0.55609	927.5201	517.6707
0.87181	1.01788	400.9852	405.878	1.01634	0.86474	1.01634	576.4828	587.7122
0.40162	1.15314	233.9778	271.9796	-1.09434	0.7297	0.91379	219.1959	200.5388
0.76614	0.98405	6867.955	6768.458	-1.10038	0.10288	0.90878	7066.482	6420.312
0.92263	1.00865	2300.7	2324.808	1.43982	1.59E-15	1.43982	2176.97	3134.781
0.19922	1.27988	9665.01	12007.03	-2.31088	1.25E-10	0.43274	15149.2	6391.254
0.68912	1.02909	3656.625	3774.118	1.31551	3.88E-08	1.31551	3143.27	4135.176
0.02468	1.13866	1845.629	2103.636	-1.2072	0.00079	0.82836	2505.186	2071.395
0.67834	0.90756	147.6638	134.0181	-1.08108	0.6999	0.925	175.201	162.3467
0.33089	1.05086	5725.485	6008.376	1.43315	3.15E-15	1.43315	5865.712	8403.828
0.13613	0.8709	5887.007	5140.622	1.29183	0.00005	1.29183	5498.059	7105.804
0.98603	0.99749	252.6834	253.4202	-1.01116	0.94671	0.98896	236.7795	234.2188
0.55039	1.04537	1071.643	1123.387	-1.32849	0.00039	0.75274	995.6843	751.5402
0.04215	1.10041	2658.174	2923.157	-1.02287	0.6426	0.97764	3159.24	3092.836
0.64396	1.07452	531.6235	560.9578	1.70897	0.00003	1.70897	564.3077	973.6317
0.28537	0.8678	10242.45	8835.071	1.03184	0.77088	1.03184	9179.997	9503.957
2.69E-17	0.68212	3252.521	2218.875	2.02181	0	2.02181	2806.024	5673.526
0.915	1.00763	727.2569	732.4238	1.03967	0.50145	1.03967	892.632	928.5337
0.42899	0.6539	81.90392	52.78596	-1.06076	0.91585	0.94272	66.95267	63.18208
0.67206	0.95438	953.6644	903.3477	1.12429	0.14896	1.12429	931.9539	1051.109
0.39927	1.11591	270.4053	303.2731	-1.00796	0.9613	0.9921	224.3724	222.1137
0.80153	1.18825	55.03292	64.08539	-1.04877	0.95965	0.9535	38.49021	39.09017
0.58405	1.04877	554.4036	583.0736	1.19184	0.07074	1.19184	519.5178	620.627

0.39053	1.1275	257.1218	291.4902	1.11517	0.59381	1.11517	223.8922	246.5689
0.29782	0.87046	267.5336	232.9646	-1.47427	0.0013	0.6783	333.0625	225.9668
0.00601	0.77767	3514.93	2731.721	1.67361	2.57E-10	1.67361	3001.834	5033.243
0.99404	0.99588	75.97454	79.34194	1.01317	0.94285	1.01317	186.6783	189.4739
0.61264	1.04335	6309.635	6612.729	1.89638	6.21E-29	1.89638	5758.867	10925.11
0.03362	1.14071	3302.964	3773.2	-1.24854	0.01154	0.80094	4222.895	3375.492
0.06126	0.8296	11904.72	9894.283	1.08692	0.28629	1.08692	11623.83	12566.66
0.34845	0.93323	2096.249	1956.414	-1.19611	0.00348	0.83604	1861.043	1555.006
0.68998	0.91082	1446.843	1315.659	-2.37403	1.18E-28	0.42123	1142.13	480.7362
0.5425	0.75709	77.01798	58.82806	-1.30576	0.63496	0.76583	89.88982	69.73059
0.66113	1.04277	410.7885	426.9909	-1.06858	0.62135	0.93582	456.48	430.3915
0.01352	1.12257	3307.616	3712.167	1.1223	0.01386	1.1223	3210.478	3605.663
0.04566	0.83807	1938.704	1625.052	-1.28068	0.00021	0.78083	1515.471	1184.854
7.10E-06	0.69353	2053.67	1422.459	1.24951	2.98E-06	1.24951	1544.044	1929.742
0.00003	0.77686	2427.235	1882.862	-1.34974	0.00547	0.74089	1988.592	1468.545
0.09462	1.07407	4504.396	4835.483	-1.07863	0.19853	0.9271	4744.799	4394.032
0.82009	0.94067	278.0282	268.4735	-1.86808	0.24262	0.53531	180.7578	88.42596
0.59618	0.94919	9637.375	9077.143	1.20211	0.03334	1.20211	9822.817	11834.63
0.28016	0.92799	2815.479	2622.414	-1.04299	0.64727	0.95878	2689.795	2567.768
0.66897	0.927	185.9695	171.9094	-1.23557	0.45427	0.80934	128.3666	104.0749
0.04622	0.80761	2376.778	1915.917	1.55857	3.77E-07	1.55857	2267.969	3521.774
0.00198	0.73926	3364.546	2480.97	1.53997	3.26E-06	1.53997	2688.806	4146.63
0.81431	1.04161	223.2082	230.2167	1.17139	0.36314	1.17139	201.4471	235.7495
0.58843	1.03737	7721.916	8141.179	1.30662	0.0035	1.30662	6476.166	8394.354
0.00483	0.73359	814.8262	591.9869	-1.01263	0.89671	0.98753	716.0847	709.9696
0.81493	1.04189	280.2679	289.2933	1.02343	0.84424	1.02343	312.3065	319.0983
0.05003	0.8074	760.8182	609.8029	3.73923	0	3.73923	621.5808	2325.434
0.0767	0.69369	450.9849	303.5043	2.06898	2.81E-12	2.06898	337.6133	700.9561
0.18444	1.10903	916.7817	1012.103	-1.02289	0.68321	0.97762	1026.277	1003.898
0.35539	0.90464	947.5116	862.2508	1.12111	0.10639	1.12111	712.4451	797.9106
0.63154	1.06358	670.2562	706.957	1.82658	5.84E-15	1.82658	578.9481	1055.717
0.49998	1.06254	2513.789	2694.158	-1.03841	0.47339	0.96301	2946.842	2835.816
0.00627	0.67623	685.1722	456.4857	1.01885	0.86714	1.01885	472.8156	483.9146
0.4172	1.04941	2216.024	2319.667	-1.00249	0.9581	0.99752	2532.012	2525.602
0.42235	0.86203	214.0699	183.0984	1.09699	0.67491	1.09699	168.6404	183.8386
0.32769	1.0819	4889.504	5309.313	-1.24611	0.00113	0.8025	4685.829	3752.34
0.23566	0.90068	748.5862	671.8115	1.57306	5.93E-10	1.57306	636.5919	1000.308
0.9485	1.01176	157.1814	158.7668	-1.18751	0.54218	0.8421	123.4795	104.1762
0.7597	0.96269	2373.187	2306.437	-1.42319	7.60E-10	0.70265	2341.083	1649.21
0.0234	0.64244	5942.712	3727.726	-1.1317	0.42717	0.88363	4391.769	3882.967
0.55153	0.96184	7436.44	7154.634	-1.30548	0.00003	0.766	6799.806	5216.868
0.00635	0.77764	1643.281	1276.729	-1.01779	0.83786	0.98253	1945.668	1899.189
0.02761	1.11122	1355.913	1507.2	1.12984	0.03226	1.12984	1679.628	1897.04
0.96422	1.00677	234.7075	235.0605	1.0184	0.90459	1.0184	259.458	265.2836
0.2532	1.05715	2806.897	2965.125	-1.00183	0.97195	0.99818	5519.929	5500.432
0.06513	0.82675	1097.478	902.8038	1.08063	0.26148	1.08063	1020.207	1104.707
0.69505	0.95429	551.8304	530.8643	-1.17603	0.12973	0.85032	515.437	440.0012
0.00013	0.77552	1261.126	976.2076	1.13678	0.05698	1.13678	1176.457	1337.727
0.5095	0.94022	1792.287	1672.579	1.15287	0.05384	1.15287	1640.384	1897.619
0.15056	1.29667	778.7606	1008.45	2.17289	4.03E-12	2.17289	642.7995	1411.054
0.22875	1.10132	909.1182	1002.562	1.96281	5.61E-09	1.96281	790.0254	1551.618
0.25145	0.83888	7193.929	5980.622	1.36508	0.00587	1.36508	6331.078	8675.91

0.80619	0.97827	776.3284	755.6462	1.18378	0.00728	1.18378	738.4207	873.4379
0.80588	1.01522	5422.389	5502.224	1.08013	0.20774	1.08013	5571.448	6028.709
0.51132	1.03215	1284.562	1325.522	1.03375	0.49736	1.03375	1383.016	1429.121
0.70762	1.04335	940.7068	985.0055	-1.60802	0.00004	0.62188	888.4202	548.5536
0.1246	0.78285	5881.475	4514.714	-1.5985	3.18E-21	0.62559	4514.418	2821.643
0.17638	1.06979	1276.422	1366.737	-1.02669	0.6051	0.97401	1219.807	1187.594
0.70343	0.95487	913.337	866.0407	1.7666	5.41E-09	1.7666	783.1879	1389.286
0.46165	1.05611	794.3638	837.6931	1.67264	4.21E-07	1.67264	767.345	1283.916
0.88442	0.96848	325.3842	301.3489	1.17842	0.23926	1.17842	355.8721	422.6369
0.72079	0.95728	647.4892	613.733	1.47083	1.05E-08	1.47083	610.5151	898.7068
0.00014	0.63884	5829.759	3684.297	-1.04647	0.6982	0.9556	4529.53	4353.184
0.0641	0.83083	30286.32	25086.54	-1.20624	0.0011	0.82902	28437.23	23577.73
0.5223	1.05399	685.7239	720.5404	-1.01698	0.80805	0.9833	613.5945	603.0046
0.10801	1.12007	446.0288	499.5821	1.04168	0.7471	1.04168	482.3119	499.1765
0.87646	1.01611	461.0017	470.9719	-1.44087	0.00008	0.69403	509.0806	353.4186
0.97943	1.00228	1346.05	1345.679	-1.13461	0.05495	0.88136	1200.731	1060.057
0.92859	0.98407	167.8687	165.2895	-1.07241	0.6134	0.93248	260.9655	242.997
0.16025	1.09793	1835.57	2011.625	1.0286	0.52441	1.0286	2026.224	2084.112
0.52045	0.95389	1918.435	1833.381	1.55815	1.01E-13	1.55815	1552.966	2417.125
0.48788	0.92217	345.1788	319.7876	1.17268	0.20241	1.17268	297.157	347.4895
0.19346	0.89839	5319.214	4774.562	-1.03008	0.78556	0.9708	4680.833	4551.355
0.89843	0.94849	104.3174	99.42642	1.10854	0.81846	1.10854	111.0418	119.9534
0.15758	1.12898	1010.489	1138.834	2.08082	1.35E-22	2.08082	905.7548	1886.298
0.04067	1.13681	5565.612	6344.232	-1.36432	0.00005	0.73297	6514.536	4745.552
1	1	20.13314	25.24207	1.06584	0.95543	1.06584	24.24897	34.43767
0.00546	0.73484	1289.546	940.6228	-1.00444	0.94916	0.99558	1014.316	1010.817
0.87177	0.99152	1106.374	1095.902	1.29334	7.76E-06	1.29334	1018.014	1317.047
0.51242	0.83949	166.4143	142.6432	-1.45567	0.29379	0.68697	122.5943	84.88403
0.04199	0.73013	600.6785	430.583	1.26249	0.01999	1.26249	355.1419	449.0828
0.72868	0.85456	82.89751	69.65837	2.00083	0.04972	2.00083	71.97249	143.975
0.27299	1.10635	573.522	631.9507	1.14896	0.12242	1.14896	565.9788	648.6284
0.49632	1.11591	359.4306	398.295	-1.09778	0.48108	0.91093	333.7961	303.9775
0.92097	1.00616	1698.313	1716.27	-1.01937	0.78474	0.98099	1806.528	1768.437
0.92502	1.12558	26.32206	29.77123	1.0826	0.92354	1.0826	40.7209	44.08852
0.33563	1.0475	2697.334	2821.705	1.06467	0.20573	1.06467	2953.63	3150.336
0.72994	0.79207	66.05311	52.06453	1.29704	0.70671	1.29704	52.02759	68.07133
0.66776	1.05847	646.4893	692.245	-1.12921	0.31394	0.88557	694.633	610.7573
0.29885	1.11462	371.1594	413.0727	1.86796	2.40E-11	1.86796	380.1235	711.5009
0.01709	0.65856	6266.92	4011.165	1.05275	0.72234	1.05275	5116.764	5375.305
0.68304	0.89707	212.2527	184.798	1.78117	0.00651	1.78117	183.9271	332.8113
0.69448	0.96305	1733.66	1675.868	1.03169	0.66261	1.03169	1409.964	1455.17
0.17133	1.09799	807.8806	887.8092	1.58004	0.00001	1.58004	728.5038	1148.526
0.0027	0.73324	65188.94	47586.82	-2.25605	1.60E-17	0.44325	68222.45	30186.24
0.76339	1.13323	77.59831	88.08511	-1.69346	0.56207	0.59051	61.43328	38.62046
0.64884	0.90381	12818.54	10893.62	-3.20194	0	0.31231	13108.07	4070.221
1	1	17.8718	23.80859	1	1	1	17.47931	31.63758
0.52509	1.03847	4053.733	4251.723	-1.01333	0.80873	0.98684	4866.96	4809.523
0.57905	0.95754	20962.38	20262.98	1.2461	0.00249	1.2461	20723.65	25754.87
0.49775	0.9257	603.563	563.215	-1.48655	7.80E-06	0.6727	639.398	430.8464
0.29993	1.07376	1929.199	2082.525	-1.00136	0.98354	0.99864	2178.973	2176.658
0.50124	1.04799	1110.471	1159.951	-1.06276	0.43423	0.94094	999.6323	943.3514
0.14711	0.8149	3396.828	2822.648	1.55352	0.00002	1.55352	3459.007	5390.657

0.62923	1.05048	5020.87	5303.411	1.30283	0.00035	1.30283	4639.805	6053.966
0.0001	0.76722	10476.45	8039.466	-1.05865	0.43704	0.9446	9283.625	8769.002
0.18386	0.9095	6497.805	5925.459	4.0098	0	4.0098	6613.034	26534.07
0.83491	0.88122	69.69559	60.96179	1.14904	0.86742	1.14904	57.9049	63.24799
0.98846	1.0212	20.25615	22.23325	1.0294	0.97753	1.0294	30.84336	39.40589
0.23426	1.06287	7906.757	8424.168	-1.05146	0.31435	0.95106	7904.373	7502.536
0.67987	1.23004	63.72128	79.28962	-1.17213	0.87265	0.85315	44.27033	36.6574
0.27527	1.05114	3163.991	3328.903	-1.01362	0.90422	0.98656	3994.084	3945.15
0.10048	1.14172	724.6763	829.2817	1.44215	0.00108	1.44215	662.9871	953.2289
0.01304	1.21255	1801.802	2204.101	-1.06983	0.63561	0.93473	1639.584	1525.393
0.03688	0.79786	2987.433	2386.959	1.22169	0.03102	1.22169	2944.25	3574.842
0.61789	1.02671	1995.631	2044.769	1.04281	0.42445	1.04281	2250.306	2343.188
0.06144	1.08737	4823.75	5243.25	1.54238	6.08E-08	1.54238	4650.393	7187.304
0.54882	1.03388	2309.049	2378.686	1.04672	0.31301	1.04672	2657.538	2782.352
1	1	18.50179	22.34174	1	1	1	17.91436	32.44507
0.53567	0.9611	897.53	863.0031	-1.52912	1.35E-07	0.65397	986.9513	646.6416
2.03E-06	0.67201	1366.558	920.926	-2.0081	1.55E-24	0.49798	1354.081	674.9114
0.93222	1.0049	4160.79	4172.934	-1.01559	0.77399	0.98465	4059.867	3991.727
0.15948	1.06973	5284.339	5665.732	1.01763	0.74952	1.01763	5358.231	5437.993
0.74811	1.1642	70.0631	83.61214	-1.04673	0.93936	0.95536	74.42445	73.77986
0.03641	1.11176	2142.865	2385.64	-1.05755	0.27619	0.94558	2702.041	2555.449
0.29385	0.89722	675.8298	602.6505	2.3551	0	2.3551	680.7554	1604.595
0.00011	0.64088	468.3087	299.1025	-1.156	0.48942	0.86505	305.1214	270.7942
0.87445	1.01084	1111.529	1127.026	-1.26033	0.00787	0.79344	1177.126	933.2489
0.92549	1.00504	2046.709	2052.636	-1.14585	0.00728	0.87271	2398.707	2092.525
0.36087	0.85726	405.594	339.6885	-1.0059	0.96967	0.99414	323.28	320.1354
0.82303	0.97946	456.1984	445.3735	-1.0291	0.73366	0.97172	487.0665	473.0509
0.16218	0.90226	901.3916	816.0723	-1.17881	0.064	0.84831	860.1556	727.4497
0.85346	1.01064	1227.052	1242.515	1.09661	0.10317	1.09661	1219.394	1337.182
0.40453	1.15354	3383.844	3971.568	2.53838	1.32E-15	2.53838	2847.779	7264.327
0.87728	0.98124	1319.235	1301.73	-1.47123	7.47E-11	0.67971	1331.21	904.1698
0.0016	0.73418	3083.779	2253.655	-1.01219	0.86109	0.98795	2527.998	2495.843
0.846	0.98268	4336.153	4308.563	-1.20939	0.00147	0.82686	4133.488	3418.383
0.00048	1.3313	4322.172	5711.498	-11.96247	0	0.08359	3645.061	302.3073
0.00867	0.77844	558.9267	433.2912	-1.24801	0.07491	0.80127	435.9893	347.7124
0.01362	1.23574	1164.733	1436.89	1.09161	0.49362	1.09161	1166.181	1270.221
0.18802	0.89276	2545.241	2287.326	-1.19107	0.00664	0.83958	2023.204	1703.227
0.3172	0.93911	830.3254	780.0337	1.85985	5.16E-28	1.85985	693.2477	1289.288
0.03484	0.78376	6063.887	4752.609	1.04319	0.71064	1.04319	5755.888	6004.497
0.00647	0.85828	8827.674	7585.078	1.35588	1.10E-07	1.35588	8040.403	10897.8
0.16059	0.89394	2879.037	2577.442	1.18695	0.00265	1.18695	3320.195	3933.789
0.69804	1.03195	1023.325	1052.712	1.22011	0.00105	1.22011	999.2127	1217.779
0.32348	1.13075	938.8405	1078.151	1.74636	3.02E-07	1.74636	988.6221	1729.314
0.78618	0.95441	1032.254	996.8254	-1.68431	3.93E-07	0.59372	957.999	570.4818
0.07711	0.65721	241.5686	163.0262	-1.4696	0.23061	0.68046	191.2526	128.3388
0.78278	0.9698	1499.982	1456.549	1.27472	0.00106	1.27472	1375.986	1761.865
0.06248	1.09584	7363.117	8059.992	1.01455	0.74099	1.01455	7653.741	7767.834
0.14719	1.16911	337.7286	393.8722	1.05002	0.43566	1.05002	691.618	726.009
0.59616	0.91559	360.0385	332.1989	-1.09446	0.3403	0.91369	430.0906	393.2618
0.7663	0.97425	871.2883	843.3299	1.07049	0.31162	1.07049	776.293	832.068
0.83868	1.02508	701.7564	712.2008	1.59987	1.67E-06	1.59987	592.8654	952.9608
0.83527	1.15465	52.09928	59.42438	1.02721	0.96991	1.02721	52.35306	53.96331

0.00025	1.23932	106407	131381.3	-2.06701	1.19E-10	0.48379	139604.8	67613.38
0.35572	0.91279	4443.947	4090.414	-1.07155	0.34717	0.93322	3410.729	3167.014
0.70955	0.96002	966.742	923.5031	1.11513	0.1905	1.11513	834.176	932.9368
0.5233	1.05183	1048.331	1107.552	1.13404	0.02698	1.13404	1043.724	1183.169
0.03114	0.83211	1987.801	1654.107	1.40209	1.65E-06	1.40209	1757.921	2470.823
0.48033	1.06983	780.7306	839.8899	-1.20363	0.02762	0.83082	807.3417	668.9305
0.02882	1.11144	3033.46	3374.6	-1.0669	0.25002	0.93729	3430.391	3212.521
0.87486	0.99273	2385.744	2366.94	1.03462	0.57387	1.03462	3085.781	3196.807
0.79011	1.02326	385.807	394.8185	1.42065	0.0035	1.42065	357.8088	505.5022
0.07773	1.16087	1711.479	1996.121	2.01308	4.78E-21	2.01308	1459.657	2943.193
0.97281	0.99193	151.3546	148.7007	-1.13037	0.69131	0.88466	144.27	127.7034
0.98661	0.99755	301.9	303.4617	-1.08721	0.54936	0.91979	283.4067	260.0042
0.951	0.91689	23.34847	23.83006	1	1	1	19.80181	37.74711
0.31696	0.78261	228.8311	186.171	1.11231	0.63314	1.11231	211.9779	231.5588
0.03388	0.91677	5286.976	4846.831	1.0382	0.36723	1.0382	4876.081	5062.543
0.0329	0.78076	2169.472	1688.15	1.42675	2.08E-06	1.42675	1600.894	2294.066
0.57444	0.94671	2062.928	1955.655	1.06004	0.33577	1.06004	1854.655	1966.653
0.92694	0.99299	1560.276	1549.975	1.05504	0.43208	1.05504	1412.821	1491.919
0.0749	0.86924	624.8712	543.9778	1.91789	3.35E-26	1.91789	531.1558	1018.576
0.94011	1.02635	142.4383	153.4973	-1.01849	0.95304	0.98184	143.5285	141.7026
0.10509	1.08701	998.436	1085.422	-1.07888	0.17302	0.92689	2252.922	2090.681
0.61393	1.04407	441.0606	460.2262	1.04068	0.68886	1.04068	380.1988	395.5448
0.00567	0.65506	4729.666	3100.177	1.14151	0.24047	1.14151	4517.714	5123.459
0.0466	1.13172	901.0477	1018.901	-1.12905	0.04967	0.8857	1027.917	909.278
0.0995	1.10234	4677.761	5194.943	-1.05186	0.26805	0.9507	6593.916	6261.559
0.99612	0.99621	54.5378	54.63099	-1.00964	0.98994	0.99045	48.03605	48.38293
0.79545	0.98458	3470.253	3431.236	-1.02281	0.62273	0.9777	3276.713	3203.892
0.96197	0.99641	1133.872	1124.822	-1.00107	0.99083	0.99893	1224.75	1227.733
0.13934	1.17643	859.1021	1008.336	1.21583	0.00617	1.21583	738.4961	899.1732
0.19339	0.89376	8507.979	7628.076	1.08138	0.30937	1.08138	7946.854	8612.426
0.98972	0.99924	1875.294	1877.578	-1.00578	0.92174	0.99425	1814.155	1802.083
0.46145	0.93829	16096.29	15247.26	1.50282	5.77E-10	1.50282	19156.35	28650.46
0.18135	1.20852	243.922	292.9594	1.3041	0.04504	1.3041	260.1166	340.2276
0.6411	0.97423	7916.74	7699.713	1.17598	0.00535	1.17598	7778.482	9157.074
0.19008	1.14713	407.022	469.3359	1.31019	0.0023	1.31019	570.9409	750.3213
0.93361	0.98414	295.6303	285.5212	1.15782	0.39596	1.15782	258.4869	299.4894
0.96076	1.00686	301.7776	306.1342	-1.02306	0.93008	0.97746	188.8666	182.1944
0.00148	0.80083	9122.087	7327.142	1.19108	0.00068	1.19108	9100.891	10824.12
0.90954	0.98746	301.4566	297.0603	-1.29192	0.11916	0.77404	294.78	227.6475
0.77261	0.97986	6164.192	6060.688	-1.18055	0.00008	0.84706	5958.975	5046.671
0.41876	1.04912	815.1433	854.7018	-1.08825	0.21205	0.9189	656.0178	603.022
0.37582	1.23604	159.112	200.8933	1.3935	0.20661	1.3935	132.4201	185.4961
0.54211	1.07232	624.9537	676.096	-1.3325	0.00169	0.75047	551.778	414.8536
0.57193	0.96269	3109.166	2997.729	-1.08423	0.05929	0.92231	2569.528	2370.182
0.00015	0.80486	1053.505	848.1164	1.14784	0.01479	1.14784	1171.867	1344.86
0.40041	0.95822	1100.448	1054.913	1.01756	0.82004	1.01756	1094.36	1116.357
0.00008	0.7481	14813.06	11089.31	1.12196	0.12848	1.12196	13160.27	14735.22
0.93747	1.01272	289.2618	296.1741	-1.71365	0.027	0.58355	266.8369	154.6862
0.06299	1.127	1693.845	1906.401	1.09281	0.1647	1.09281	1752.391	1908.644
0.50137	0.94759	4088.712	3878.604	1.3411	0.00002	1.3411	3604.481	4839.948
0.58812	1.22628	72.14557	88.03393	1.0884	0.86501	1.0884	59.15205	64.3301
0.74909	1.07808	278.3957	286.2316	1.61075	0.0275	1.61075	232.9755	374.7086

0.57728	0.87654	163.3401	142.6693	1.50219	0.23396	1.50219	114.4262	176.0657
0.74454	0.95996	290.6919	280.1527	-1.20797	0.03999	0.82784	839.4097	692.4061
0.35148	0.92909	2203.171	2046.169	1.27331	6.27E-07	1.27331	2014.915	2565.68
0.68902	1.02588	3287.453	3354.053	1.06266	0.25902	1.06266	3052.415	3252.566
0.77308	1.01506	4392.232	4450.38	-1.07637	0.20313	0.92905	4344.491	4036.451
0.61247	1.02415	1480.535	1516.292	1.19795	0.05315	1.19795	1402.74	1682.13
0.5271	0.92834	1333.29	1240.541	1.30205	0.00271	1.30205	1478.086	1930.91
0.09041	0.86615	3778.43	3284.388	1.27568	2.21E-06	1.27568	3056.997	3902.147
0.96904	0.99161	247.1022	243.6592	-1.02243	0.90658	0.97806	220.8821	216.7862
0.40842	0.92306	1041.852	964.0772	1.13786	0.25443	1.13786	1082.354	1232.868
0.00001	1.33329	1041.534	1387.188	2.21334	9.33E-14	2.21334	1016.133	2260.412
0.93481	0.96666	79.14787	77.48625	-1.30705	0.64064	0.76508	79.29276	60.72742
0.00037	0.60492	3950.75	2365.029	-1.11035	0.37956	0.90061	3469.084	3109.665
0.00006	1.25083	3961.297	4955.513	-1.65644	7.44E-11	0.6037	5434.057	3246.789
0.85567	0.9766	401.9162	388.4219	-1.01636	0.90636	0.9839	313.8965	310.3209
0.0011	0.78638	1054.218	831.0071	-1.83504	1.00E-14	0.54495	865.9707	472.4704
0.02957	0.77184	1585.474	1212.707	1.45933	0.00089	1.45933	1355.682	2003.026
0.88059	1.01397	602.4182	609.6728	1.04421	0.41619	1.04421	923.8032	964.4495
0.03165	0.80742	3842.444	3136.423	1.26173	0.00422	1.26173	3265.646	4143.327
0.633	1.10336	173.9645	194.0726	1.07293	0.72722	1.07293	203.9392	218.267
0.7551	0.95178	240.6655	227.472	1.36556	0.11819	1.36556	220.9095	302.3326
0.07866	1.15831	1282.273	1493.635	1.95439	2.53E-09	1.95439	1137.356	2229.762
0.91866	1.02968	106.1543	109.3575	1.39179	0.26501	1.39179	98.42146	137.2423
0.47381	0.95913	2764.584	2646.093	1.04658	0.27612	1.04658	2938.072	3074.906
0.32916	0.89154	842.4995	757.7381	1.42922	0.00001	1.42922	580.1692	831.0866
0.64869	1.04109	7022.373	7348.503	1.57716	1.19E-17	1.57716	6070.772	9576.546
0.51083	1.04525	926.415	965.9126	-1.02536	0.77048	0.97527	923.4189	904.024
0.94174	1.10109	19.70362	22.64159	1	1	1	21.09049	31.40769
0.52697	1.03696	3510.063	3633.339	1.01923	0.67494	1.01923	4045.709	4125.836
0.54823	0.93003	7239.671	6808.403	-2.2249	5.78E-14	0.44946	7837.147	3462.4
0.15059	1.10581	672.2241	743.5112	-1.02352	0.6282	0.97702	1607.613	1571.486
1	1	18.073	24.02055	1	1	1	19.05082	31.13832
0.86483	0.9863	834.313	819.6672	1.30433	0.00017	1.30433	849.2153	1109.865
0.8967	0.94206	71.05229	67.07982	-1.33338	0.7136	0.74997	50.89038	38.30003
0.00116	0.6961	712.9418	492.1868	-1.06468	0.44163	0.93925	566.9186	531.6742
0.17365	0.91433	6531.533	5975.39	-1.08163	0.14967	0.92453	5935.858	5482.468
0.73724	1.31012	37.37201	47.50335	1	1	1	21.94849	31.14022
0.72001	0.96181	1812.149	1732.662	-1.75762	6.72E-11	0.56895	1796.246	1021.066
0.00006	0.82713	6927.932	5730.894	-1.1074	0.12087	0.90302	6613.421	5960.859
0.69437	1.04573	356.4045	372.3403	1.10245	0.55422	1.10245	334.1375	364.7105
0.24307	1.09891	1222.795	1338.657	1.09838	0.07101	1.09838	2455.043	2690.768
0.20175	0.8679	2058.794	1786.649	1.69349	1.54E-21	1.69349	1697.422	2878.202
0.83609	1.05888	153.6845	158.484	1.34964	0.25449	1.34964	193.9284	271.8933
0.19601	0.86605	1966.017	1707.016	1.36885	3.24E-08	1.36885	1780.387	2439.221
0.73399	1.03703	1345.572	1398.792	1.48473	1.51E-07	1.48473	1171.281	1742.493
0.69754	1.06657	206.3263	218.7242	1.51479	0.04056	1.51479	166.9207	254.8942
0.75264	0.96364	652.3189	622.9652	-1.00274	0.97603	0.99727	576.0977	576.0728
0.77269	1.54919	17.96735	30.49279	1	1	1	21.12083	31.15327
0.27724	1.13557	259.8028	294.6553	1.07709	0.60812	1.07709	281.3467	302.1102
0.99967	0.99994	409.398	404.2079	1.09077	0.32699	1.09077	674.3565	737.4844
0.72762	1.04106	426.8803	447.9824	-1.44875	0.00033	0.69025	431.8212	297.7652
0.09471	1.08856	3255.562	3550.211	-1.1418	0.03841	0.87581	3235.535	2841.776

0.22223	0.90478	991.2002	894.9424	1.14776	0.02129	1.14776	820.0501	941.7324
0.57622	1.03342	3965.967	4108.384	-1.04305	0.4094	0.95873	3845.698	3687.603
0.44544	0.89592	480.7101	434.421	-1.0968	0.44742	0.91175	330.002	301.4897
0.1297	1.11431	2644.024	2963.558	-1.00851	0.86951	0.99156	2890.743	2864.261
0.35625	1.06353	765.4592	812.3563	-1.0992	0.15435	0.90976	822.8259	747.7485
0.00935	1.12636	2723.987	3067.886	-1.09719	0.04731	0.91142	2909.075	2651.803
0.9028	1.00745	989.143	995.967	-1.12808	0.15834	0.88646	772.2362	686.4232
0.23337	1.10849	925.7162	1019.001	1.17541	0.01042	1.17541	1012.642	1192.727
0.00264	1.18456	737.1486	873.5357	1.01681	0.75318	1.01681	919.9884	935.2719
0.07746	1.09851	1320.292	1451.878	-1.10202	0.04947	0.90743	1357.058	1231.865
0.07437	0.81638	2457.457	2000.847	-1.17241	0.10154	0.85294	2120.967	1814.594
0.74029	1.02144	1374.677	1401.154	-1.08217	0.11569	0.92407	1703.618	1574.555
0.88631	0.96039	125.6092	119.2614	5.10302	1.34E-16	5.10302	110.8324	571.8048
0.49554	1.06635	476.4719	505.9317	1.12174	0.14261	1.12174	482.8768	542.0367
0.94706	1.01216	201.1468	203.4554	-1.00317	0.98539	0.99684	204.3776	203.7282
0.73823	0.95992	303.2788	292.3168	-1.04933	0.69485	0.95299	303.8449	289.5505
0.95102	0.99271	356.988	353.3852	-1.0765	0.64109	0.92893	391.6658	368.2791
0.88433	1.07998	63.13539	66.73443	1.16185	0.77711	1.16185	64.43498	75.02405
0.93036	1.00782	1361.771	1363.156	1.5819	8.36E-11	1.5819	1436.89	2276.962
0.55331	0.96631	40436.7	39003.27	1.54579	1.75E-07	1.54579	36677.16	56830.26
0.84644	0.98781	734.9193	727.0032	-1.10169	0.29196	0.9077	731.0527	661.4934
0.11254	1.1571	504.9377	582.3249	1.07862	0.19677	1.07862	979.0627	1057.069
0.16298	0.85029	5167.479	4377.036	1.33044	0.00742	1.33044	4363.344	5840.731
0.9781	0.98213	61.68362	58.38801	1.82379	0.40345	1.82379	45.81605	85.24641
0.05519	1.113	5736.983	6383.049	1.50502	1.35E-09	1.50502	5740.562	8635.35
0.11777	1.087	2901.226	3161.76	1.04255	0.46692	1.04255	3409.508	3547.773
0.30276	1.08444	5139.454	5591.975	-1.21357	0.00002	0.82401	6058.681	4990.335
0.12686	0.89911	1076.444	966.5819	-1.03967	0.60314	0.96184	944.2422	905.8375
0.44561	0.9073	1650.165	1504.698	-1.78459	2.46E-14	0.56035	1334.612	748.0781
0.36057	1.06875	782.7697	839.1568	1.18897	0.00321	1.18897	753.2737	895.1981
0.0009	0.7778	946.828	734.706	1.31866	0.00021	1.31866	814.1389	1075.502
0.73326	0.96598	506.0269	486.0864	1.08741	0.36996	1.08741	467.8671	509.728
0.97926	1.00167	1002.857	1003.537	-1.0725	0.36131	0.9324	996.8018	931.6687
0.61545	1.04203	1567.547	1633.314	-1.00385	0.9647	0.99616	1325.793	1324.009
0.99546	1.00058	588.91	592.9138	-1.07796	0.53609	0.92768	525.2241	483.4257
0.26248	1.06689	3102.017	3321.218	-1.0121	0.85324	0.98804	3358.328	3307.166
0.12864	1.13678	673.8294	768.8802	1.05128	0.62065	1.05128	686.596	718.7471
0.36699	1.10854	283.7391	314.5635	1.38239	0.00798	1.38239	281.6462	390.3525
0.03608	1.09966	10981.11	12069.78	1.18538	0.00237	1.18538	12109.84	14353.88
0.00061	1.17407	1676.146	1966.366	1.08843	0.22141	1.08843	1833.947	1992.57
0.22007	0.82147	2206.721	1800.094	1.22474	0.06754	1.22474	1833.05	2259.433
0.64561	1.06295	301.2099	319.3707	1.07932	0.60126	1.07932	302.4825	327.1941
0.46717	1.0413	2309.792	2415.232	-1.0719	0.29229	0.93292	2397.168	2238.865
0.24079	0.84508	3964.034	3339.591	1.3176	0.01347	1.3176	2977.287	3963.365
0.59232	0.96875	1550.561	1502.297	1.23216	0.00014	1.23216	1678.795	2070.782
0.45778	0.91632	1572.928	1443.05	2.36478	4.10E-12	2.36478	1510.384	3599.827
0.45595	1.06905	414.3428	443.9391	-1.0219	0.88326	0.97857	354.9811	344.1283
0.26895	1.08511	854.7954	929.63	1.01089	0.84378	1.01089	1396.172	1412.318
0.29518	0.75619	250.249	180.2227	-1.16556	0.40026	0.85796	299.6793	260.0952
0.94526	1.00699	394.2248	395.9439	-1.13541	0.21145	0.88074	419.8599	370.3337
0.63934	1.05275	937.2081	987.017	-1.09164	0.26204	0.91605	1782.859	1617.449
0.00481	1.15503	3766.583	4354.37	-1.12091	0.18158	0.89214	4692.224	4160.389

0.09926	0.87224	1063.791	926.1577	1.09848	0.12045	1.09848	903.7911	993.678
0.9532	1.01533	160.7235	162.1025	1.19176	0.48216	1.19176	146.0518	175.5522
0.50767	1.11322	309.026	343.1855	1.17781	0.1384	1.17781	330.8585	389.7787
0.00812	1.20559	2556.896	3083.267	1.14575	0.0021	1.14575	3078.282	3529.974
4.69E-06	0.6794	764.6573	517.7184	1.0032	0.9654	1.0032	585.3989	586.851
0.96123	1.06537	20.35597	25.72745	1	1	1	18.45702	31.69444
0.65807	0.95	353.2723	337.2272	-1.26333	0.08285	0.79156	313.0396	247.2225
0.93639	1.00444	2481.982	2486.911	-1.1235	0.05798	0.89007	2618.595	2328.309
0.37819	0.94808	2081.636	1977.117	-1.04576	0.58001	0.95624	1850.341	1764.974
1.78E-17	0.64717	1325.249	857.5544	-1.24678	0.00027	0.80207	1000.196	802.8945
0.10652	0.62454	153.057	94.44975	1.31644	0.32275	1.31644	126.6618	166.2836
0.85637	1.02173	341.8823	348.2069	-1.10574	0.41183	0.90437	313.5028	283.6338
0.88008	0.98736	7931.416	7839.496	1.46069	2.86E-17	1.46069	6580.722	9612.85
0.59273	1.09046	198.463	215.4062	-1.09085	0.67215	0.91672	186.9814	170.9125
0.80807	0.98739	1648.472	1630.687	-1.0607	0.34986	0.94277	1812.455	1709.456
0.08154	0.87061	21874.72	19078.45	1.04888	0.50616	1.04888	21565.89	22590.61
0.67367	1.05851	228.8648	242.7882	-1.0161	0.94445	0.98415	155.9524	153.7357
0.00758	1.15279	752.7172	867.5943	1.15434	0.05852	1.15434	874.4394	1006.62
0.00467	0.72566	4875.315	3510.481	1.14072	0.12609	1.14072	3834.109	4395.454
0.3199	1.05528	2497.847	2628.772	-1.0111	0.85685	0.98902	2461.854	2444.979
0.89778	0.99003	2009.639	1979.742	1.07091	0.31353	1.07091	1894.366	2037.604
0.81282	0.97651	394.8182	384.2061	-1.11163	0.39174	0.89958	355.832	320.7305
0.44704	0.91972	15683.11	14541.45	1.33582	1.71E-06	1.33582	16272.47	21768.26
0.01787	0.84815	1301.959	1100.967	-1.2238	0.01204	0.81713	1184.688	969.5319
0.34568	1.11223	4376.681	4926.774	1.47746	2.61E-07	1.47746	4025.849	5956.153
0.4662	1.08578	401.286	434.7396	1.22856	0.0367	1.22856	411.8084	507.2244
0.02148	1.19439	9974.267	11972.47	-1.8417	8.11E-17	0.54298	11447.24	6182.428
0.00002	1.26518	39886.16	50459.54	2.22505	3.36E-23	2.22505	39768.3	89084.97
0.73288	1.01485	2639.917	2678.145	-1.04589	0.35651	0.95613	2593.232	2483.229
0.89135	0.8209	25.12271	22.78407	-1.26536	0.75279	0.79029	54.20092	42.78601
0.24375	1.06262	9808.219	10409.14	1.00348	0.94006	1.00348	9968.91	9995.643
0.26394	0.92728	1054.206	974.4506	-1.17221	0.08168	0.85309	918.661	785.8795
0.99006	1.00205	219.6386	219.1116	1.14166	0.41859	1.14166	220.987	251.7694
0.06684	1.09036	2834.416	3086.644	-1.06269	0.17317	0.94101	2993.323	2814.678
0.27609	0.84345	830.8115	706.9163	-1.99058	6.47E-09	0.50237	683.3873	341.2379
0.17437	0.82431	670.4265	544.9341	1.27328	0.00032	1.27328	554.9553	706.941
0.16788	0.89874	3089.951	2773.734	-1.04752	0.3197	0.95464	2897.489	2766.531
0.90712	1.01681	1035.362	1047.266	1.23565	0.03696	1.23565	965.7138	1198.186
0.67423	1.03765	742.8032	766.9296	1.05585	0.46705	1.05585	628.0586	664.0776
0.52857	0.92471	417.9855	387.4444	-1.02406	0.83396	0.97651	360.0141	351.171
0.16773	1.08885	813.7724	887.5895	1.01801	0.83054	1.01801	843.1268	856.0265
0.73387	0.94703	252.5761	237.5623	1.19032	0.20405	1.19032	251.9966	299.7413
0.03147	1.14032	5558.093	6360.651	-1.30771	7.87E-06	0.76469	6046.311	4595.757
0.93142	0.89648	24.45034	24.65448	1	1	1	24.603	33.98246
0.00238	0.69702	7645.975	5298.353	-1.31369	0.00146	0.76121	6375.658	4842.47
0.46961	1.0607	624.3501	659.8324	1.04059	0.54185	1.04059	701.3748	730.3707
0.95543	1.00378	1824.941	1824.47	1.05677	0.46724	1.05677	1725.998	1833.617
0.57016	1.0933	189.4437	207.4454	1.07974	0.70189	1.07974	182.5356	196.1618
0.85585	1.02163	445.8835	451.6807	1.27531	0.00999	1.27531	400.1561	511.2999
0.01052	1.18706	3263.737	3876.144	1.6797	8.58E-07	1.6797	3975.571	6709.07
0.42854	0.89064	494.2855	433.9627	1.2393	0.03428	1.2393	471.871	586.9214
0.78876	0.97768	862.6879	844.4374	1.02867	0.80339	1.02867	983.2793	1007.561

0.02307	0.8741	3225.5	2819.087	1.1006	0.12936	1.1006	2869.327	3162.71
0.84457	0.99011	2470.322	2452.709	-1.0524	0.41372	0.95021	2261.646	2144.568
0.06018	1.19556	438.9854	522.8685	1.65145	1.34E-07	1.65145	411.4149	677.607
0.54357	1.23161	107.5078	129.468	1.01698	0.93397	1.01698	214.302	217.879
0.44059	1.1105	326.2093	360.6101	1.13632	0.10468	1.13632	482.4175	548.6552
0.07838	0.82063	1085.88	883.4988	1.26795	0.03551	1.26795	932.8827	1189.769
1	1	17.48209	23.3855	1.10601	0.95568	1.10601	20.35533	31.00846
0.00203	0.79285	5727.047	4538.423	-1.09249	0.06639	0.91534	4789.113	4380.496
0.03172	1.21001	2908.195	3505.441	2.10373	3.63E-32	2.10373	2177.12	4581.558
6.04E-12	0.64744	2516.672	1631.505	1.05174	0.54663	1.05174	1934.722	2026.953
0.9256	0.98889	293.7728	290.9938	-1.18271	0.48759	0.84552	270.8545	228.4722
0.06735	0.85612	1548.11	1322.713	1.29621	7.95E-07	1.29621	1280.851	1660.971
0.98082	0.99589	381.2978	386.4697	-1.64324	0.0038	0.60855	308.8296	186.9365
0.43325	1.04015	1625.398	1692.821	1.13707	0.01706	1.13707	1757.392	1997.946
0.33879	1.06508	2267.949	2410.773	1.39953	1.32E-07	1.39953	2217.067	3106.026
0.22943	1.09823	1121.49	1227.987	-1.20035	0.05952	0.83309	1128.72	942.2727
0.02317	0.85852	3109.002	2668.383	1.3392	0.00002	1.3392	2732.621	3656.602
0.05014	1.24248	8081.008	10186.93	2.0587	9.11E-36	2.0587	7536.123	15505.12
0.98172	0.9984	2917.551	2910.479	1.34484	2.65E-08	1.34484	2700.6	3633.523
0.14241	1.12686	563.9965	637.5535	-1.01442	0.8623	0.98578	652.8327	642.2018
0.28979	1.07756	621.0809	669.2761	1.04551	0.39387	1.04551	1259.684	1316.032
0.87152	1.01146	7616.37	7710.822	1.11724	0.00962	1.11724	7962.084	8899.103
0.82533	1.02395	426.6859	434.5671	-1.0642	0.54995	0.93967	380.8955	357.5009
0.7448	1.02507	2045.588	2084.696	-1.04666	0.39254	0.95542	2863.182	2724.296
0.46827	0.95531	852.7249	814.7988	-1.06129	0.48245	0.94225	956.643	904.5476
0.9883	0.99751	283.9603	278.3286	1.28105	0.1233	1.28105	312.605	395.6707
0.00262	0.71437	4564.502	3263.091	1.38633	0.00021	1.38633	3613.993	5011.648
0.55138	0.93526	547.306	515.2632	-1.3225	0.00656	0.75615	443.1783	335.6829
0.50911	0.87097	237.0288	211.2292	-1.36337	0.27805	0.73347	174.216	128.0016
3.37E-07	0.78516	5516.037	4331.919	1.08642	0.12104	1.08642	4699.894	5099.474
0.46302	0.95592	1546.55	1480.369	-1.14149	0.05315	0.87605	1505.708	1315.52
0.6937	0.97642	1321.042	1293.279	-1.12048	0.03475	0.89248	1357.139	1210.866
0.4606	0.9569	2996.969	2866.374	1.25851	0.00286	1.25851	2602.805	3279.594
0.19446	1.12721	1382.04	1549.541	-1.12384	0.01967	0.88981	2329.983	2071.395
0.83682	1.02005	1023.545	1051.934	-1.1607	0.10567	0.86155	922.0385	797.6483
0.72122	1.05428	451.1699	467.4324	1.31389	0.02058	1.31389	406.6776	531.3214
0.00204	0.86284	1716.717	1481.925	-1.25215	0.00453	0.79863	1645.605	1306.638
0.71045	1.13896	85.38844	97.88029	1.41432	0.28321	1.41432	96.6319	136.7563
0.64553	1.02881	1544.672	1586.545	-1.09438	0.16254	0.91376	1801.516	1646.437
0.7696	1.03994	443.9625	468.2811	1.37686	0.00305	1.37686	586.7894	804.6745
0.57125	1.04058	628.49	654.5645	1.22051	0.02498	1.22051	513.3181	625.013
0.21628	0.5577	103.1138	58.63763	-1.26331	0.45027	0.79157	125.8238	100.0788
0.77415	0.98163	3211.674	3142.051	-1.04387	0.48589	0.95797	3272.011	3151.931
0.14777	1.10366	467.1326	515.4663	1.14559	0.07271	1.14559	503.3414	576.7737
0.02586	0.76376	3218.594	2442.92	-1.12945	0.19981	0.88539	2944.326	2639.503
0.65085	0.92015	356.0599	334.92	-1.0597	0.6921	0.94367	305.2531	288.6612
0.08929	0.6394	250.8926	167.9259	-1.51469	0.00847	0.6602	283.4591	187.5356
0.66532	0.80575	110.4149	99.14938	-2.77378	0.06888	0.36052	141.3901	49.46682
0.28082	1.0814	1213.307	1310.146	-1.65276	9.22E-10	0.60505	1521.954	915.525
2.30E-09	1.37402	1219.346	1674.974	-1.09465	0.1983	0.91353	1428.606	1303.137
0.02679	0.725	10998.55	7932.965	1.26604	0.01387	1.26604	8212.117	10471.1
0.8987	1.0158	392.7147	395.7567	-1.07974	0.46897	0.92615	358.3207	331.7293

0.40096	1.05617	1572.346	1657.956	-1.65705	4.08E-09	0.60348	1593.321	967.7085
0.34489	1.08611	1749.16	1902.563	-1.23891	0.00009	0.80716	1922.867	1549.99
0.72695	0.96447	396.3466	383.6689	-1.34549	0.03088	0.74322	321.8471	238.5797
0.09531	0.92651	3415.822	3162.658	2.76939	0	2.76939	3079.671	8528.057
0.6412	0.93632	361.4228	340.1099	-1.15935	0.33589	0.86255	277.9203	238.8633
1.84E-16	0.45016	1886.935	845.7333	-2.95231	1.44E-30	0.33872	1400.364	473.3279
0.40408	1.05698	2531.251	2664.563	-1.08881	0.07526	0.91844	2779.084	2554.22
0.97172	1.00271	1942.327	1948.792	1.13225	0.19457	1.13225	1862.313	2101.206
0.00327	1.28248	573.1155	732.5371	1.61821	0.00003	1.61821	602.1745	971.1622
0.14616	0.86943	1145.599	991.7755	-1.32229	0.00155	0.75627	939.8613	712.6536
0.61555	1.03073	7535.181	7782.539	-1.10118	0.06555	0.90811	7268.181	6594.905
0.00021	0.82704	2119.936	1754.266	-1.03478	0.66186	0.96639	2203.131	2124.873
0.02271	0.72546	1145.31	818.7249	1.45231	0.00158	1.45231	837.14	1225.116
0.21858	0.89631	6696.11	6034.801	-1.24335	0.00068	0.80428	5791.995	4660.366
0.54395	1.03777	241.2726	251.4202	1.31878	2.98E-06	1.31878	235.1491	310.7985
0.28558	0.81683	1445.865	1199.159	-1.56635	0.00287	0.63843	903.4297	579.5739
1	1	19.59771	22.54515	1.06178	0.95879	1.06178	37.36466	39.98836
0.87481	1.01516	1881.11	1915.545	1.72624	2.86E-25	1.72624	1711.074	2954.784
0.6416	1.16258	112.0683	127.8786	2.01961	0.00728	2.01961	108.9776	220.7177
0.00031	0.67875	7365.768	5053.507	-1.00389	0.95728	0.99613	5511.651	5581.836
0.929	0.99202	730.8488	727.8065	-1.13751	0.15364	0.87911	2116.429	1835.37
0.48565	1.07536	732.6285	786.0996	1.04531	0.40251	1.04531	1108.467	1158.604
0.94143	1.02077	150.1285	153.9651	1.20466	0.42291	1.20466	152.8783	183.2836
0.01162	0.80132	970.0954	774.2384	-1.41721	0.00085	0.70561	808.8373	572.999
0.80589	0.98587	3480.25	3428.197	-1.06757	0.20619	0.93671	3320.683	3110.339
0.00024	0.71745	3149.699	2253.833	-1.19474	0.00774	0.837	2340.593	1960.26
0.99132	0.99775	190.9688	190.437	-1.068	0.81343	0.93633	161.9217	149.4453
0.27039	1.09648	1054.009	1164.577	1.00354	0.95458	1.00354	1085.313	1087.457
0.98826	0.99828	280.7878	280.4643	1.12249	0.53895	1.12249	228.742	259.4355
0.23114	0.88402	3082.541	2738.036	1.1448	0.15889	1.1448	2943.587	3368.937
0.31017	0.933	3762.63	3510.719	1.24467	0.00001	1.24467	3332.515	4148.106
0.28617	0.83635	661.518	542.6346	1.26412	0.00555	1.26412	666.6107	844.2998
0.92678	1.00452	2047.62	2057.309	1.21484	0.00122	1.21484	1934.477	2348.881
0.0457	0.79928	1797.809	1426.287	1.29193	0.00474	1.29193	1594.847	2073.091
0.7889	0.9574	483.3794	470.9666	-1.2717	0.04927	0.78635	433.9689	340.6553
0.86881	1.01725	3764.593	3787.4	-1.97168	7.69E-14	0.50718	4192.54	2113.345
0.66795	1.02382	1934.379	1984.344	1.15153	0.0311	1.15153	1993.424	2292.956
0.12844	0.8862	1269.147	1121.911	-1.15875	0.002	0.863	1420.919	1226.402
0.00626	0.80751	1280.228	1029.77	2.5098	0	2.5098	1116.547	2801.383
5.28E-06	0.7406	20228.07	15065.58	-1.15372	0.00103	0.86676	20907.5	18123.59
1	1	18.24179	24.53643	1	1	1	18.43385	30.8349
0.28281	1.11124	1325.802	1472.426	1.22283	0.00321	1.22283	1236.001	1514.215
0.09334	1.13365	10497.64	11915.12	-1.35402	0.00874	0.73854	12146.91	8971.002
0.00211	0.77225	6115.459	4723.445	1.07247	0.24355	1.07247	5104.763	5479.056
0.86867	0.9797	662.5997	654.6895	1.08449	0.17101	1.08449	1259.577	1365.921
4.61E-07	0.685	6043.564	4142.426	1.12294	0.02583	1.12294	4663.268	5238.48
0.93024	0.99631	3170.185	3157.393	-1.06538	0.15573	0.93863	2901.282	2725.2
0.99416	1.00165	179.8491	179.6361	1.12086	0.59696	1.12086	185.2014	207.4769
0.62961	0.96721	1479.349	1427.456	1.08701	0.1824	1.08701	1435.18	1558.143
0.89556	1.15298	33.47558	39.44527	1.16211	0.79971	1.16211	56.10133	65.30715
0.64618	1.03372	1106.037	1138.731	-1.01931	0.76123	0.98105	1059.753	1041.425
0.08498	1.07919	2531.026	2731.175	1.77572	5.28E-14	1.77572	2210.47	3928.106

0.39819	1.0436	3590.919	3749.419	-1.03095	0.5099	0.96998	3737.281	3624.687
0.76166	1.02271	478.2045	488.8669	1.1651	0.05299	1.1651	542.0123	631.5656
0.51905	1.19574	135.9955	159.071	-1.14397	0.64843	0.87415	155.07	137.1214
0.41419	1.05377	3190.997	3352.298	1.00371	0.9453	1.00371	3530.085	3546.591
0.18102	1.10388	759.4467	841.2512	1.38103	7.97E-06	1.38103	765.1394	1054.578
0.0065	0.87433	2935.512	2562.896	1.21333	0.00054	1.21333	3406.515	4146.472
0.95846	1.0115	238.1471	245.6205	-1.23713	0.39041	0.80833	225.1767	179.0562
0.26346	0.94451	1911.585	1807.073	1.80391	2.05E-30	1.80391	1784.871	3219.174
0.06322	0.8515	506.3256	429.9793	2.1281	3.10E-17	2.1281	473.5424	1006.02
0.72279	0.70355	47.86066	35.18238	-1.04292	0.9696	0.95885	33.36183	40.671
0.00766	0.79692	699.0308	558.5719	-1.11325	0.43574	0.89827	644.4663	573.2833
0.05028	0.91102	1920.595	1750.813	-1.24441	0.00119	0.80359	1800.883	1446.824
0.09665	1.14937	477.2	550.0576	1.05184	0.38621	1.05184	1130.151	1188.176
0.86423	0.99117	76243.98	75461.98	1.14469	0.0431	1.14469	85510.65	97988.88
0.02733	0.68339	1515.5	1016.245	1.10881	0.44597	1.10881	1060.772	1190.483
1	1	15.26126	23.96193	1.47291	0.73544	1.47291	27.97279	48.17141
0.42505	0.9483	777.7968	736.0769	1.06279	0.40619	1.06279	738.0525	783.1066
0.38945	0.88287	304.1805	270.3762	-1.15597	0.44437	0.86507	256.2239	220.1315
0.65544	0.97573	6784.957	6629.584	1.10032	0.08712	1.10032	5745.567	6321.08
0.6975	1.05921	432.0566	451.9893	-1.23808	0.04609	0.8077	491.1457	398.1423
0.93394	1.00452	1328.272	1336.008	-1.01692	0.71091	0.98336	1527.996	1502.471
0.53122	0.87765	4638.417	4040.803	-1.74293	4.10E-20	0.57375	3720.14	2128.858
0.68847	0.97637	21809.98	21283.69	1.0205	0.79446	1.0205	23928.04	24341.32
0.98469	0.99728	290.6938	289.4963	-1.08575	0.50457	0.92102	295.1895	271.7441
0.67321	0.9402	521.1347	495.944	1.06194	0.5153	1.06194	463.2677	491.1036
0.74586	0.97941	541.8302	530.5971	1.39623	0.00721	1.39623	465.1896	646.1442
0.47072	0.90245	784.9297	698.5747	1.27739	0.00607	1.27739	634.6169	813.5394
0.41606	0.86909	374.5833	333.8076	-1.18313	0.24547	0.84522	407.5182	340.8019
0.40486	0.89251	9204.177	8255.959	1.35093	0.01941	1.35093	9111.773	12219.56
0.31392	0.94506	1017.401	960.6537	1.26479	1.73E-06	1.26479	1043.713	1319.961
0.97478	0.98728	120.5259	124.0064	-1.42632	0.44768	0.7011	94.50626	65.61179
0.59387	0.90731	532.0302	470.9981	1.53722	2.58E-06	1.53722	512.9218	790.871
0.81399	0.97413	614.1348	593.7163	1.54637	0.00005	1.54637	525.6221	809.5784
0.16227	1.12779	547.0554	618.5509	-1.00158	0.97989	0.99843	1287.299	1283.619
0.71892	1.01659	1242.827	1263.333	-1.15088	0.0187	0.8689	1304.336	1135.042
0.00064	1.19983	5032.372	6033.88	-1.2842	0.00331	0.7787	6388.023	4918.222
0.9373	0.99075	398.5303	396.6866	1.0279	0.86687	1.0279	339.7296	344.4166
0.92538	1.04802	60.51537	64.16559	-1.06899	0.92495	0.93546	69.12144	63.88867
0.24934	1.11489	2538.796	2823.44	1.16102	0.01701	1.16102	2411.289	2802.73
0.25078	1.06102	3054.371	3240.214	-1.04735	0.38436	0.95479	3129.15	2990.186
0.14435	1.10415	1556.138	1728.525	-1.08919	0.3287	0.91811	1770.549	1627.938
0.00764	0.73052	680.1196	492.1559	-1.00011	0.99905	0.99989	523.6391	522.3961
0.13773	1.15194	527.1318	604.2249	1.08488	0.32066	1.08488	646.9536	700.4723
0.98703	1.00178	416.6852	418.8312	1.09339	0.44884	1.09339	411.357	447.2861
0.76269	0.94228	192.9445	182.5591	1.0563	0.7987	1.0563	187.6064	196.5648
0.0402	1.17264	2781.459	3255.449	-1.76603	2.27E-19	0.56624	2639.024	1490.578
0.19932	0.82609	3748.145	3115.941	-1.00015	0.99877	0.99985	3081.446	3086.932
0.24916	0.86082	2180.638	1877.689	1.63678	2.17E-06	1.63678	2001.568	3286.763
0.87681	0.93463	86.83902	81.00322	1.12331	0.77948	1.12331	85.11351	96.28416
0.17926	1.14077	796.9736	908.7868	1.06565	0.18763	1.06565	1259.88	1342.314
0.00413	0.68687	1592.095	1088.56	-1.06641	0.47877	0.93772	1758.411	1649.961
0.00123	1.29958	13920.86	18382.67	1.45487	0.00163	1.45487	13189.42	19210.18

0.74214	0.96479	1632.99	1578.789	-1.1956	0.07518	0.8364	1228.187	1015.442
0.0001	0.8477	3387.615	2872.046	-1.03281	0.44203	0.96823	3178.2	3076.882
0.12895	0.91707	775.6882	711.3386	1.0146	0.8373	1.0146	708.0832	719.2728
0.79895	0.97556	566.4268	555.218	-1.15489	0.12461	0.86588	520.1459	449.7727
0.39126	1.05889	1741.483	1840.99	1.06579	0.15601	1.06579	1663.23	1772.517
0.76902	1.02668	371.9081	381.3749	1.07101	0.53198	1.07101	414.2785	443.7757
0.05805	1.15652	522.1088	605.1659	-1.00028	0.99717	0.99972	506.7576	506.6559
0.96522	0.99154	221.5747	216.3113	1.06757	0.66832	1.06757	225.0273	239.7448
0.82442	0.97084	317.793	310.7473	1.08186	0.57958	1.08186	408.2398	436.5738
0.00162	0.63805	2998.719	1903.516	1.11408	0.34485	1.11408	2918.275	3250.248
0.70046	0.97305	816.2111	791.8314	-1.04786	0.43232	0.95433	803.4999	767.1097
0.20064	1.06167	2961.438	3143.221	1.31713	1.34E-07	1.31713	2728.44	3593.65
0.00003	0.77974	3069.629	2392.07	-2.48226	3.33E-32	0.40286	2603.308	1047.483
0.89363	0.91614	71.9523	61.34128	1.21121	0.80791	1.21121	48.99936	61.93669
0.45667	0.95209	2745.074	2620.587	-1.04404	0.49076	0.95782	2368.412	2268.668
0.10061	0.73279	256.2387	185.248	1.15453	0.45652	1.15453	201.53	231.0506
0.94973	1.00699	505.2354	510.842	1.29061	0.0456	1.29061	493.6387	632.9369
0.29506	1.04979	10426.87	10953.21	1.0508	0.47935	1.0508	11800.65	12391.35
0.57946	0.92356	363.3213	331.1907	1.14705	0.26771	1.14705	325.1339	371.5344
0.87792	1.0492	120.5636	125.7494	1.3667	0.25384	1.3667	123.7779	170.5835
0.17217	1.11775	493.7306	550.8472	1.04489	0.69107	1.04489	483.0748	506.5453
0.02464	0.86843	1897.484	1644.698	1.37844	7.18E-09	1.37844	1754.927	2421.259
0.96793	1.00244	3218.904	3242.089	-1.12215	0.10408	0.89114	3162.417	2823.969
0.28886	0.79672	378.2368	292.2107	-1.07828	0.68597	0.9274	310.6382	291.3248
1	1	16.32234	22.91307	1	1	1	18.49708	30.53584
0.19789	0.92279	1555.545	1435.136	1.0351	0.56008	1.0351	1481.652	1534.68
0.41918	1.06446	2117.72	2246.43	-1.02537	0.66292	0.97526	2298.122	2242.011
0.17155	1.09928	1469.08	1606.742	1.47874	4.34E-09	1.47874	1925.51	2852.093
0.55054	0.94864	11598.74	10997.41	-1.12199	0.12314	0.89128	11464.36	10197.17
0.66937	1.01974	3488.628	3558.648	-1.20217	0.00305	0.83183	3706.656	3066.004
0.83012	1.01342	786.6754	798.4746	-1.09073	0.32494	0.91682	745.1818	685.3266
0.06017	1.10586	812.6134	898.3574	-1.02972	0.58451	0.97114	976.4796	947.9965
0.00019	0.85524	68192.23	58313.63	-1.0967	0.19662	0.91182	69695.09	63364.16
0.1544	1.10028	5020.753	5527.447	1.3159	1.18E-06	1.3159	4808.656	6325.618
0.04989	0.7303	856.7952	614.1981	-1.15351	0.27998	0.86692	703.0009	613.7217
0.94219	0.9922	7559.401	7549.644	1.31567	0.00416	1.31567	6796.265	8945.592
0.51339	1.06474	355.458	379.2844	-1.09778	0.44179	0.91093	377.7318	344.4114
0.73146	1.115	91.80093	102.8874	1.24711	0.19296	1.24711	210.9734	261.8337
0.00328	0.75131	1325.189	991.1351	1.18126	0.03672	1.18126	1107.841	1309.385
0.61342	0.95236	5873.855	5597.711	-1.06725	0.43917	0.93698	5937.197	5549.871
0.5522	1.03988	5655.859	5853.758	1.10942	0.02781	1.10942	4940.042	5475.946
0.3729	1.06505	763.3765	811.2758	1.426	4.89E-07	1.426	797.3989	1138.377
0.50957	0.8948	10557.92	9424.617	1.14115	0.37728	1.14115	9176.585	10545.07
0.0524	0.81887	975.4647	793.728	1.32272	0.02054	1.32272	920.3866	1225.908
0.00674	1.19061	1198.029	1424.74	-1.1575	0.01583	0.86393	1551.88	1338.868
0.38911	1.15636	231.1454	265.9102	1.65161	0.00007	1.65161	208.0897	343.9614
0.20803	0.91977	863.2124	792.5181	1.5675	2.13E-08	1.5675	741.8416	1160.556
0.11682	0.88183	1214.122	1070.772	1.39727	0.00001	1.39727	1246.149	1744.393
0.31163	0.8709	309.9164	269.3743	1.04113	0.7952	1.04113	252.8874	263.0671
0.98902	1.00078	3125.659	3123.762	-1.03778	0.54622	0.96359	2742.641	2645.592
0.47369	1.08147	301.8554	325.8831	1.79541	0.00001	1.79541	245.7539	443.2528
0.80896	1.08505	126.6303	141.9283	-2.01356	0.13785	0.49663	127.5704	63.98048

0.0059	0.75912	7056.375	5336.605	-1.21645	0.03473	0.82206	6150.609	5025.631
0.42564	1.07499	437.8102	469.3107	1.15623	0.15439	1.15623	445.0902	514.5815
0.20838	1.06349	1575.651	1673.974	-1.07125	0.14619	0.93349	1856.888	1732.568
1	1	17.09513	22.71275	1	1	1	17.85815	30.3406
0.27422	0.88769	4021.684	3588.147	1.41729	0.00065	1.41729	3597.078	5112.913
0.22433	0.86963	1183.254	1035.328	-1.11268	0.20484	0.89873	1016.381	916.8529
0.39395	1.0709	3218.685	3473.907	-1.08464	0.11875	0.92197	2864.563	2643.394
0.13072	0.85527	398.5632	339.7125	1.08341	0.52098	1.08341	340.1768	367.3622
0.85394	1.0376	146.86	152.3835	-1.14025	0.53627	0.877	240.0136	210.2367
0.38788	1.07238	458.1812	490.9054	-1.02079	0.84296	0.97963	393.1456	385.5183
0.06118	0.80326	5367.756	4370.923	3.06951	9.31E-34	3.06951	4654.472	14365.79
0.78835	0.97343	300.5707	292.4766	1.00525	0.97247	1.00525	264.1578	266.6534
0.20135	0.8355	2178.084	1838.915	1.24763	0.00019	1.24763	1389.518	1733.11
0.16034	1.07546	1721.123	1852.582	1.14848	0.00962	1.14848	3394.383	3905.883
0.46314	1.05495	2055.583	2172.627	1.04791	0.60991	1.04791	1943.396	2031.799
0.94995	1.00341	4928.479	4940.167	-1.10621	0.08079	0.90399	5542.456	4990.365
8.62E-09	0.60604	2381.308	1444.472	1.00684	0.90198	1.00684	1928.375	1939.203
0.61526	1.03351	3743.522	3856.13	-1.00437	0.93208	0.99565	4064.269	4049.292
0.04927	1.0941	8692.16	9506.972	-1.3525	1.22E-11	0.73937	8999.018	6657.592
0.86909	0.96791	414.8083	407.9014	-1.44225	0.04025	0.69336	273.0775	189.2407
0.63513	1.02102	3681.648	3761.136	1.03258	0.52873	1.03258	3603.228	3714.702
0.21514	1.1214	355.0645	398.6735	1.13099	0.07699	1.13099	650.08	736.0449
0.13518	1.1472	370.0812	424.2985	1.32854	0.12485	1.32854	259.6429	340.0044
0.627	1.03518	779.1636	807.2708	1.48925	2.99E-07	1.48925	809.4282	1205.138
0.5586	0.90956	360.563	322.2896	1.64344	4.97E-06	1.64344	306.8861	503.1316
2.35E-16	2.39533	59028.73	140915.9	1.62202	0.00001	1.62202	78992.19	128001.6
0.40989	1.16978	313.5154	358.4581	1.40085	0.00101	1.40085	297.6881	417.4265
3.40E-09	1.64784	3229.293	5367.353	1.71647	2.32E-13	1.71647	3575.454	6168.693
0.55159	0.94591	888.9234	834.668	-1.10881	0.11311	0.90187	835.61	754.1113
0.44146	1.0777	362.135	389.5035	1.06292	0.48975	1.06292	398.182	423.0351
0.42845	1.05978	933.7075	985.8761	1.00307	0.9628	1.00307	1024.966	1029.105
0.32517	1.07193	1656.102	1759.609	-1.1434	0.07821	0.87459	2227.822	1960.461
0.74378	0.83061	84.07201	66.60914	2.81652	0.00003	2.81652	103.0573	293.9063
0.6534	1.04511	332.349	347.5718	-1.02136	0.88798	0.97909	319.4763	312.7376
0.53335	1.03662	686.3812	711.8135	-1.00963	0.90047	0.99046	624.4973	618.235
0.20333	1.06555	7598.421	8092.123	-1.0589	0.19768	0.94438	7715.768	7284.621
0.28607	1.15434	408.3315	466.7354	1.18574	0.25364	1.18574	358.1159	426.0016
0.28358	0.93011	22790.13	21221.21	1.25004	0.00002	1.25004	21660.2	27060.52
0.67929	0.94273	345.0096	322.5053	-1.05258	0.72713	0.95005	336.6563	320.191
0.00882	0.73892	537.1638	393.6434	1.17516	0.16033	1.17516	407.1213	476.379
0.33988	1.05198	1092.23	1148.971	1.00073	0.98751	1.00073	1542.04	1543.576
0.17266	1.09152	965.7645	1052.787	-1.05717	0.26629	0.94592	1076.373	1018.149
0.2119	0.88414	1455.464	1279.795	-1.12643	0.10746	0.88776	1371.145	1218.31
0.7928	1.02942	1648.422	1682.636	-1.03759	0.42261	0.96377	1974.989	1902.528
0.55092	1.08742	340.7847	366.7563	-1.06669	0.5883	0.93748	371.4539	349.4366
0.69256	0.97054	973.9555	941.6377	-1.01087	0.88079	0.98925	958.325	949.7379
0.65918	1.10497	174.3928	196.1307	1.01196	0.92133	1.01196	339.0981	343.8525
0.7896	1.04163	174.9966	182.2615	-1.12776	0.4778	0.88671	261.6287	231.1736
0.76637	0.97307	794.3601	769.5174	1.29397	0.00131	1.29397	807.728	1043.994
0.21819	1.24803	560.3381	688.683	2.09093	5.54E-22	2.09093	475.5678	995.9565
0.78936	1.02103	665.5121	677.6111	1.33507	0.00009	1.33507	689.9495	919.6011
0.90818	0.99271	2565.177	2553.591	-1.13101	0.05384	0.88417	2608.349	2306.036

0.53626	0.97472	4693.464	4573.868	-1.10081	0.06081	0.90842	4625.249	4191.93
0.51231	0.93657	437.4182	411.3166	1.13616	0.28803	1.13616	372.9081	421.6785
0.38449	0.88596	1649.17	1463.533	-1.68072	6.01E-07	0.59498	1382.896	823.9758
0.00003	0.79797	4094.408	3268.213	-1.28835	0.00005	0.77619	2951.205	2291.608
0.82555	1.02281	1247.274	1277.722	6.77123	0	6.77123	1325.966	8964.984
0.32627	1.09856	631.0032	689.5327	1.15625	0.04367	1.15625	546.889	632.8228
0.77556	1.12659	86.58963	99.96163	1.39874	0.06765	1.39874	181.4552	253.9317
0.93955	1.00569	694.7068	696.9557	1.01393	0.85783	1.01393	664.0222	674.4144
0.57205	1.05049	534.605	559.7994	1.12428	0.24286	1.12428	469.929	526.5703
0.06171	0.77385	2895.563	2221.624	1.02295	0.86275	1.02295	2476.676	2532.741
0.38077	1.0702	534.8758	571.1246	-1.06038	0.43936	0.94306	586.3993	552.4301
0.45818	1.04005	1696.708	1763.296	1.10181	0.22708	1.10181	1401.633	1541.994
0.87167	0.84782	32.41791	27.68261	-1.07597	0.95355	0.9294	27.8728	31.29969
0.83137	0.96574	1382.52	1325.175	-2.58515	0	0.38682	1667.545	644.5354
0.00191	1.1874	3555.959	4222.164	-1.53208	0.00004	0.65271	4368.989	2817.113
0.34619	0.87454	7442.735	6545.762	1.68681	0.00177	1.68681	7035.672	12174.35
0.00497	0.70328	1430.702	1000.016	1.4795	0.01265	1.4795	1105.051	1667.724
0.79095	1.0231	395.59	404.1965	-1.05405	0.49899	0.94872	487.5177	462.4503
0.12581	1.08805	955.0869	1038.423	1.27847	0.01257	1.27847	891.3872	1137.657
0.175	1.08626	10876.1	11829.5	-1.01147	0.87937	0.98866	16327.62	16111.67
0.00749	1.20902	7949.997	9573.672	-1.68988	0.00004	0.59176	11007.2	6384.413
0.92547	1.00515	854.531	859.243	-1.31203	0.00018	0.76218	670.6881	511.5398
0.83332	0.98883	1300.162	1287.375	1.04724	0.49875	1.04724	1405.929	1471.138
0.49724	0.88643	295.1945	265.5375	-1.36296	0.0632	0.7337	246.5204	181.2791
0.88703	1.01633	488.6115	500.4461	1.70114	7.17E-11	1.70114	740.6761	1259.474
0.55741	0.94742	368.252	349.3773	1.19693	0.12507	1.19693	373.7531	446.3118
0.71115	1.03738	901.0092	941.318	-1.05254	0.60798	0.95009	844.7963	799.2599
0.01299	1.13363	4668.855	5296.637	2.07543	7.61E-20	2.07543	4633.545	9644.814
0.83149	1.01279	2033.932	2063.636	-1.08077	0.17152	0.92526	2197.448	2028.935
0.18504	1.08115	1011.803	1093.405	1.22787	0.00007	1.22787	1007.189	1236.771
0.73984	0.96606	1184.717	1153.283	-1.38496	0.00024	0.72204	1179.857	854.1373
0.37171	1.08139	797.2354	856.9446	1.03207	0.70379	1.03207	833.7095	863.2982
0.6217	0.91683	6212.856	5737.316	-1.80353	1.26E-13	0.55447	6081.629	3376.712
0.65372	0.94278	306.8195	289.3738	-1.1029	0.6859	0.9067	250.6678	226.4366
0.68323	1.43086	42.09797	69.92572	-1.30298	0.72517	0.76747	73.39895	60.35826
0.07355	0.75894	758.2467	566.5357	1.35068	0.00527	1.35068	575.255	781.4403
0.43269	0.8796	373.5487	334.3705	-1.42285	0.34073	0.70281	267.6115	188.081
0.28601	1.2431	128.7134	159.5576	1.18992	0.47807	1.18992	146.1544	173.6764
0.20525	1.08352	1935.139	2087.781	1.0281	0.54687	1.0281	1999.917	2056.795
0.19797	1.08571	3111.365	3367.893	1.00522	0.915	1.00522	3539.229	3563.185
0.59923	1.05506	3132.536	3327.251	1.7323	4.78E-21	1.7323	2688.801	4662.521
0.90579	1.007	976.7156	983.0465	1.0898	0.13797	1.0898	933.7767	1016.983
0.81838	1.01883	671.5779	685.8816	-1.22114	0.00751	0.8189	659.0862	539.1138
0.50667	1.09132	540.7754	584.304	1.61417	1.36E-09	1.61417	523.7057	844.1937
0.93785	1.03225	83.46302	86.68007	1.11162	0.67822	1.11162	138.0118	154.3101
0.46723	1.05677	743.0628	783.7136	1.43532	0.00001	1.43532	690.0067	988.4608
0.55298	1.05722	1524.501	1599.181	1.08262	0.34704	1.08262	1749.332	1905.816
0.39535	0.74367	117.6841	86.99787	-1.04377	0.90812	0.95806	111.1006	105.0632
0.93722	1.00338	4290.546	4304.841	1.00974	0.84022	1.00974	4524.066	4566.462
0.70446	0.98051	3339.459	3265.646	1.05408	0.28078	1.05408	3109.457	3270.611
0.33065	0.88312	386.8897	338.6982	1.33216	0.00569	1.33216	332.7308	444.0627
0.07417	1.08561	7078.937	7679.842	-1.20629	0.00618	0.82899	8723.523	7213.425

0.36903	1.04831	3024.401	3179.881	-1.11699	0.03533	0.89526	3231.503	2893.785
0.77318	1.06027	427.295	438.2272	1.45705	0.00386	1.45705	378.8955	556.2498
0.21529	1.12235	364.025	409.3225	-1.10859	0.35646	0.90205	320.1449	288.601
0.49584	0.91775	892.8632	826.115	-1.06853	0.32837	0.93587	681.728	638.5029
0.9032	0.98515	16484.52	16170.8	-1.97967	1.90E-24	0.50514	17073.47	8608.302
0.78698	1.04926	248.4601	259.1025	1.01639	0.91395	1.01639	273.2199	278.7436
0.51938	1.49294	46.88979	69.35972	-1.12442	0.93135	0.88934	32.84198	29.18364
0.78449	1.52542	18.78871	30.57435	1	1	1	21.73859	29.93575
2.10E-09	0.5963	1048.356	625.3788	1.34857	0.03329	1.34857	888.9933	1196.031
0.64125	0.77032	64.79442	50.14553	1.03897	0.96215	1.03897	43.05387	45.06419
0.19028	1.09671	2183.419	2398.092	-1.20134	0.00623	0.8324	1831.756	1535.844
0.17052	0.84998	1503.933	1279.073	1.17205	0.01378	1.17205	1287.755	1512.357
6.73E-08	0.64793	664.4643	431.392	-1.64874	0.00007	0.60652	519.2331	313.1267
0.02851	0.75543	10472.31	7862.295	1.28731	0.04448	1.28731	9870.037	12676.95
0.00145	0.81924	1040.254	852.4855	1.37806	0.00002	1.37806	837.0696	1150.749
0.84208	1.023	1080.334	1099.331	1.15729	0.1694	1.15729	969.7706	1127.527
0.51129	1.08125	7975.611	8505.543	-1.41945	2.48E-07	0.7045	9625.578	6748.402
0.73087	0.93757	247.9183	229.5146	1.33988	0.15465	1.33988	196.8373	261.2704
0.82148	1.01229	809.2389	819.535	-1.00376	0.9527	0.99626	771.3071	768.7547
0.00475	1.12539	11817.34	13295.31	-1.10199	0.17184	0.90745	14630.78	13225.04
0.49588	1.12777	501.9191	576.5537	-2.0513	3.19E-07	0.4875	388.2329	189.1075
0.25386	0.9258	1215.148	1121.548	1.08865	0.14148	1.08865	1133.738	1235.108
0.18275	1.1629	724.4329	836.1096	2.128	1.15E-10	2.128	477.2477	1023.783
0.17215	1.08471	1114.329	1208.363	1.14788	0.07276	1.14788	1259.782	1444.671
0.38789	1.07226	904.2174	966.7463	1.34117	0.00147	1.34117	897.0975	1199.54
0.12096	1.16864	336.3333	393.4758	1.76731	0.00014	1.76731	317.8234	555.7529
0.9694	1.05257	26.32664	29.83804	-1.09824	0.90652	0.91054	61.20907	54.73595
0.09313	1.08894	4411.353	4807.048	-1.07602	0.11361	0.92935	4340.605	4033.68
0.88471	0.98585	342.1033	336.7679	1.007	0.95777	1.007	313.0894	316.3937
0.37246	0.94722	8274.859	7844.895	-1.07874	0.18643	0.927	7507.33	6948.009
5.70E-06	0.75752	2611.604	1978.194	-1.14126	0.01766	0.87622	2180.822	1909.242
0.13601	1.06855	5759.956	6158.06	-1.08176	0.15824	0.92442	6518.653	6012.13
0.55069	0.94762	1399.667	1329.739	1.2235	0.03416	1.2235	1243.061	1522.593
0.06766	1.1856	5784.625	6929.396	1.3482	6.91E-13	1.3482	5519.281	7441.442
0.84071	0.89301	58.47509	52.21098	-1.24768	0.76837	0.80149	52.84156	42.29817
0.62362	0.95634	407.2208	390.0555	-1.60813	0.00415	0.62184	379.6027	238.3235
0.56711	1.04646	1538.083	1602.027	1.01924	0.76535	1.01924	1615.309	1644.427
0.05397	1.16462	718.4721	834.4147	1.40256	0.00084	1.40256	693.9595	970.6014
0.04138	1.18559	3590.386	4278.379	-1.43288	0.00007	0.69789	4940.604	3451.922
0.79292	1.01759	4589.731	4654.628	-1.11854	0.01693	0.89402	4710.891	4207.814
0.27762	1.12683	422.2676	472.8201	1.04794	0.65938	1.04794	370.7236	388.9207
0.5867	0.92781	402.0603	368.1857	1.24218	0.06734	1.24218	359.062	443.9319
0.82471	0.9797	1140.455	1127.74	-1.2017	0.02238	0.83215	1100.565	912.8984
0.05523	1.16767	3681.714	4308.782	-1.72879	1.73E-12	0.57844	4442.691	2560.563
0.10873	1.08082	1967.645	2125.691	1.98931	3.93E-07	1.98931	1748.922	3505.684
0.42194	1.06622	876.3773	931.4361	1.02713	0.76324	1.02713	727.8895	750.1105
0.62761	1.08523	249.424	268.0808	1.11432	0.1589	1.11432	550.6881	614.2003
0.93554	0.98818	278.7947	277.8781	1.58057	0.00023	1.58057	235.5363	371.7747
3.94E-09	0.69478	1352.295	939.676	1.01059	0.86207	1.01059	1016.787	1026.301
1	1	16.83068	23.66924	1.18304	0.92508	1.18304	17.91507	34.22572
0.05992	0.84437	1087.056	911.2535	1.29102	0.00146	1.29102	1050.756	1359.965
0.33193	0.67625	128.2517	84.38922	2.52867	0.00347	2.52867	97.23357	245.6027

0.3161	1.06311	11154.34	11884.02	1.40457	4.45E-13	1.40457	12645.89	17752.59
0.03285	0.80799	1919.277	1549.095	1.34118	0.00218	1.34118	2137.645	2853.993
0.00536	1.16701	2072.612	2418.054	1.26401	0.03948	1.26401	2102.211	2663.967
0.71349	0.96396	631.72	612.3759	-1.49348	0.12226	0.66958	415.2112	278.0168
0.90067	0.9716	162.6807	157.3009	1.24928	0.32342	1.24928	146.8824	182.6144
0.45287	1.06672	788.0475	841.1776	1.028	0.75278	1.028	1093.861	1124.488
0.71914	0.9805	1666.463	1630.687	-1.01951	0.7775	0.98086	1529.978	1506.998
0.51066	0.96552	2020.656	1946.416	-1.09769	0.11206	0.91101	2049.656	1862.238
0.95649	1.0067	506.7176	507.4155	-1.22389	0.13534	0.81707	414.5942	339.3733
0.98747	1.00143	686.0735	684.2876	1.24814	0.03437	1.24814	628.8409	781.5607
0.96877	1.00287	672.4588	675.8091	-1.174	0.15352	0.85179	747.0494	633.2527
0.09169	0.62661	352.5078	211.53	1.2429	0.28607	1.2429	233.3752	291.411
0.96273	0.99257	241.335	241.4284	-1.25978	0.2171	0.79379	282.7772	226.0261
0.20394	0.85633	481.1085	410.1048	1.04805	0.62562	1.04805	397.4943	416.6341
0.56209	0.95474	4822.677	4614.396	-1.49922	7.43E-21	0.66701	4602.806	3069.934
0.10549	1.08418	5232.325	5682.03	-1.00043	0.99411	0.99957	5377.5	5386.181
0.95296	1.00975	584.0797	600.1489	-1.60855	0.00003	0.62168	580.7595	362.8575
0.878	1.03724	182.6874	188.4902	1.08122	0.69221	1.08122	177.0389	191.3929
0.00946	0.78277	1004.363	784.4295	1.01241	0.80739	1.01241	1136.723	1150.992
0.86205	0.98453	2333.706	2284.075	1.11782	0.40862	1.11782	1942.861	2173.594
0.81003	1.04655	185.3618	194.4926	1.22452	0.5075	1.22452	148.3217	177.9104
0.04144	1.35989	1798.25	2448.398	-2.57213	0.00003	0.38878	4387.217	1556.787
0.35517	1.05271	2499.748	2635.092	-1.12683	0.02251	0.88745	2971.054	2634
0.83963	1.01467	885.1809	901.6586	-1.07002	0.40662	0.93456	923.6892	862.3971
0.42084	0.95595	741.8068	708.9781	-1.0822	0.42926	0.92404	715.0017	657.8351
0.72604	1.03423	383.75	395.7929	1.16467	0.17139	1.16467	384.6754	446.3302
0.9014	1.01165	906.8739	924.0858	-1.29025	0.00002	0.77504	831.7839	644.7116
1	1	18.33051	23.24627	2.87873	0.39187	2.87873	17.69205	50.89376
0.30817	1.29576	118.165	152.201	-1.03686	0.91552	0.96445	106.8206	102.3848
0.95109	0.99327	722.4192	723.7254	1.80668	2.93E-16	1.80668	542.061	978.5697
0.69697	0.90868	250.3751	240.821	-1.27676	0.08548	0.78323	386.9255	305.0841
0.24381	0.84201	407.5573	338.6254	-1.04995	0.72352	0.95243	322.2835	307.5616
0.3072	1.07328	7845.047	8389.012	-1.17449	0.00086	0.85144	8643.195	7376.327
0.8876	1.03591	187.9663	189.191	-1.08658	0.73998	0.92032	179.528	164.4916
0.18462	0.84864	782.5869	658.7307	1.43866	1.52E-07	1.43866	660.3472	949.0252
0.39531	0.868	266.7293	229.8673	1.83158	7.90E-06	1.83158	238.8761	439.6383
0.29179	0.67884	104.6679	71.56975	-1.33531	0.66217	0.74889	69.23294	53.30484
0.84728	1.08503	100.588	114.2352	1.60169	0.27583	1.60169	58.97317	94.63451
0.24062	1.08025	1001.159	1084.709	-1.38826	0.0007	0.72033	1040.784	746.7422
0.00127	1.24362	4821.865	6005.587	-1.68339	0.00001	0.59404	7154.458	4214.514
0.84432	1.02937	323.8364	330.9084	-1.02726	0.81661	0.97346	363.1204	354.3148
1.57E-07	0.56624	22391.19	12583.32	-1.2353	0.01285	0.80952	17458.56	14139.96
0.97083	1.02504	47.70277	48.42464	-1.0428	0.96058	0.95895	50.96404	51.23399
3.97E-15	1.81284	10623.26	19237.63	1.04785	0.64155	1.04785	16644.03	17358.71
0.40745	0.78679	152.8169	117.9378	1.00457	0.98382	1.00457	165.6036	167.2285
0.78184	0.80867	48.48891	40.15701	2.26672	0.2823	2.26672	30.86066	68.67345
0.99165	0.99005	34.15658	34.72446	1.36072	0.70596	1.36072	43.01773	57.84038
0.00012	0.82602	6691.333	5531.3	1.35816	7.25E-09	1.35816	6157.493	8365.933
0.72597	1.05448	318.7995	331.8177	1.00272	0.97254	1.00272	534.1786	536.1016
0.96812	1.00703	219.1794	222.4829	-1.04315	0.86693	0.95863	150.6328	145.2613
0.05367	1.16079	4796.803	5560.799	-1.32463	0.0043	0.75493	6270.301	4711.398
0.59307	1.07147	277.0917	298.3582	-1.08366	0.48431	0.9228	312.934	288.9081

0.63443	0.96015	698.64	673.7824	1.11007	0.28871	1.11007	600.4955	669.3695
0.20118	0.81111	3987.199	3245.011	1.17794	0.00025	1.17794	3217.687	3789.846
0.82142	1.20456	41.39331	49.81471	1.33876	0.77122	1.33876	43.10425	52.71386
0.03774	0.77907	830.3805	640.8068	-1.17735	0.21203	0.84937	681.8223	582.1929
0.08002	0.77655	369.4941	284.0068	-1.02947	0.82509	0.97137	314.1218	304.2899
0.70607	1.17295	90.58722	104.9947	1.51015	0.27794	1.51015	72.86928	110.1822
0.94213	0.99343	1776.047	1748.398	1.11213	0.17078	1.11213	1830.606	2044.591
0.05746	0.75074	3188.229	2374.706	1.39349	0.00181	1.39349	2542.314	3567.46
0.31732	0.8826	631.0851	551.1497	1.01311	0.87134	1.01311	648.6625	658.4188
0.99244	0.99925	4933.366	4948.321	1.13307	0.00773	1.13307	4030.6	4566.62
3.57E-10	0.70309	27593.12	19357.43	3.17721	6.50E-28	3.17721	28288.39	90761.35
0.83045	1.011	949.2844	960.0928	-1.0482	0.51506	0.95402	892.2622	849.4083
0.49008	0.93422	32464.11	30407.71	1.25274	0.00018	1.25274	26945.97	33768.53
6.77E-06	0.58927	833.6818	486.5903	-1.58861	5.71E-09	0.62948	595.4591	374.8522
0.34389	0.9605	3100.191	2977.408	1.08994	0.19448	1.08994	2794.939	3040.525
0.58018	0.96917	2884.348	2798.832	1.0041	0.95078	1.0041	2900.526	2910.378
0.83251	0.97431	533.1826	515.7921	-1.15219	0.16182	0.86791	521.7606	454.3922
0.19783	0.74991	239.9166	176.679	-1.13479	0.6212	0.88122	203.3718	183.0272
4.34E-06	1.30127	822.7479	1069.865	1.93976	1.20E-30	1.93976	803.8612	1559.825
0.82802	0.96564	247.211	236.8274	1.0081	0.95076	1.0081	243.1805	245.1552
0.87701	0.98996	11366.8	11268.04	1.29576	0.00009	1.29576	10606.85	13742.77
0.56253	1.02787	3334.961	3424.447	-1.19337	0.00017	0.83797	3593.943	3010.508
0.0001	0.72905	5093.949	3708.238	-1.67918	1.77E-11	0.59553	4059.329	2417.037
0.72827	1.03514	485.3607	503.6505	1.05662	0.70501	1.05662	461.9059	484.9914
0.54725	1.1518	139.6143	159.7224	-1.04262	0.86804	0.95913	138.2638	132.6153
0.99648	1.00022	2285.178	2285.583	1.06047	0.43624	1.06047	2225.19	2357.678
0.15795	0.84821	334.9437	283.5862	-1.00637	0.95786	0.99367	312.5484	310.4521
0.12062	0.89278	1195.523	1066.649	1.02537	0.62712	1.02537	1122.373	1150.685
0.31557	0.88234	7306.181	6502.686	1.5167	0.00002	1.5167	7507.922	11380.53
0.19295	0.8301	7451.163	6209.592	-1.18741	0.04046	0.84217	6354.026	5353.922
0.22303	0.91456	958.4843	879.6412	1.02365	0.81758	1.02365	911.0361	928.5945
0.83424	1.00932	2163.511	2182.641	-1.11663	0.08015	0.89555	2535.762	2270.031
0.19314	1.08558	2778.622	3012.323	-1.27629	1.29E-06	0.78352	3163.328	2478.126
0.98411	0.99731	1080.207	1082.533	-1.01518	0.85365	0.98505	892.4218	876.6401
0.30052	0.83991	3785.295	3191.285	2.10095	2.54E-06	2.10095	3684.696	7897.408
0.00296	0.68836	2751.235	1885.517	1.10782	0.42052	1.10782	2367.655	2638.429
0.05808	0.91346	2038.373	1861.544	-1.38463	0.00002	0.72221	1772.812	1276.547
0.0018	0.79005	5935.807	4676.928	1.27468	0.02991	1.27468	5857.905	7426.682
0.72826	0.89356	36689.08	30413.84	-12.46072	0	0.08025	37524.54	3041.715
0.00109	0.74497	6737.726	5028.437	-1.65666	2.74E-18	0.60363	6647.717	4005.035
0.68629	0.97739	11389.71	11116.83	1.028	0.59403	1.028	10453.38	10748.29
0.58143	1.06187	329.335	349.0728	-1.14155	0.36229	0.876	327.9126	286.9053
0.06015	1.16518	1114.588	1295.073	1.37026	0.0002	1.37026	1158.94	1587.323
0.52767	1.0865	374.985	403.1949	2.11046	2.03E-10	2.11046	323.7182	679.6395
0.66313	0.95397	3126.442	2971.951	-2.41629	0	0.41386	3161.146	1309.156
0.96712	0.99525	756.3584	757.4155	-1.3024	0.04508	0.76781	548.0812	423.8245
0.60441	1.0716	258.0891	277.4224	1.02815	0.79883	1.02815	316.8478	325.6487
0.58683	1.08878	311.1506	340.213	1.05537	0.74648	1.05537	294.4555	307.7558
0.14769	1.06781	1907.948	2037.625	-1.07037	0.27949	0.93425	2303.544	2147.906
0.00079	2.05814	2302.474	5058.757	2.35605	1.17E-08	2.35605	1975.448	4730.596
0.93466	1.00518	1381.436	1392.471	-1.00352	0.95901	0.99649	1484.645	1477.219
3.64E-10	0.71146	1890.608	1346.088	1.01223	0.84471	1.01223	1722.53	1745.584

0.21344	0.89979	658.3467	594.3207	1.13823	0.12187	1.13823	590.1965	673.087
0.68469	1.0533	347.2787	362.9036	-1.05138	0.66664	0.95114	309.9234	294.7929
0.51671	0.94289	744.4608	705.6653	-1.08484	0.43946	0.9218	868.9279	796.7844
0.42028	1.04418	6993.025	7302.154	1.44169	2.41E-07	1.44169	7082.017	10200.44
0.52248	0.59038	54.87503	33.79385	-1.13138	0.91011	0.88388	36.37734	40.29099
5.80E-15	1.58253	1627.83	2572.014	2.27004	5.16E-11	2.27004	1416.299	3249.812
0.07599	1.40138	192.8048	265.971	2.21704	0.00073	2.21704	137.752	301.4551
0.95812	1.02209	73.17165	74.18512	2.83211	0.00289	2.83211	72.91409	205.2262
0.31747	1.05057	1339.07	1405.524	-1.01966	0.69866	0.98072	1474.955	1445.916
1	1	18.06031	24.21392	1	1	1	18.79275	32.21477
7.49E-10	0.61395	5791.101	3562.56	1.17823	0.03443	1.17823	5776.615	6770.679
0.84117	1.06877	168.538	187.9746	-1.01593	0.96329	0.98432	157.5203	150.35
0.16531	1.08012	5557.711	5995.676	-1.17752	0.00143	0.84924	5844.971	4960.252
7.89E-10	0.716	5611.175	4021.036	1.15609	0.03573	1.15609	4739.331	5487.519
0.8802	0.99011	964.7754	957.2582	1.01863	0.82124	1.01863	995.4368	1011.337
0.96469	1.01187	113.58	114.3294	1.06303	0.88323	1.06303	92.98032	98.87146
0.4774	0.95336	18993	18185.96	-1.02714	0.63279	0.97358	21688.93	21116.85
0.82648	0.92379	98.17245	90.80079	1.15669	0.75191	1.15669	83.95326	95.70033
0.85204	1.03154	245.3519	255.34	-1.12155	0.53983	0.89163	340.2166	302.5114
0.01392	0.73461	6675.965	4884.266	-1.31824	0.01938	0.75859	5981.744	4496.781
0.32554	0.94095	4402.622	4152.427	-1.13525	0.00249	0.88086	4278.234	3768.527
0.66008	0.91592	296.3132	265.6085	1.79699	0.00001	1.79699	225.204	405.7268
0.21333	1.06313	1045.107	1111.479	1.01634	0.82985	1.01634	1082.122	1098.032
0.00505	0.76443	1824.906	1385.997	-1.65507	2.27E-12	0.6042	1609.786	972.0525
0.78567	1.02624	413.1534	422.7354	-1.2126	0.09534	0.82468	373.9058	307.6913
0.12794	1.07517	1133.752	1219.061	-1.11936	0.04596	0.89336	1273.918	1137.156
0.00144	1.3866	28908.85	40806.11	1.42386	0.0002	1.42386	31005.98	44252.62
0.01321	0.69969	6070.918	4197.859	-1.00619	0.9622	0.99384	4570.667	4560.275
0.59879	0.95752	9313.418	8888.578	-1.27747	1.31E-08	0.7828	8242.044	6451.864
0.78397	1.03061	842.0208	865.3218	1.74381	2.93E-08	1.74381	672.9613	1169.891
0.80022	1.0183	740.2183	754.6285	1.46714	0.00258	1.46714	655.5394	957.9226
0.60499	1.03791	1662.917	1738.145	-1.10884	0.03607	0.90185	1767.781	1593.935
0.92652	1.01018	569.8929	577.1625	1.05012	0.53286	1.05012	818.3359	857.8215
0.18594	1.08733	977.5811	1060.519	1.12271	0.04476	1.12271	1006.018	1130.626
0.83321	1.18589	46.14288	53.60518	1.07423	0.93799	1.07423	50.88738	50.85782
0.83103	1.08332	82.91537	89.82961	1.31986	0.5075	1.31986	70.19449	92.67385
0.84097	0.96105	350.9634	338.4973	-1.02305	0.88208	0.97747	295.2528	288.6389
0.04582	0.83409	598.5774	497.2465	20.29604	0	20.29604	641.0165	13051.52
0.06755	0.83772	2858.373	2381.256	1.01146	0.87233	1.01146	2413.578	2444.689
0.5871	0.94247	360.124	339.991	1.03632	0.74511	1.03632	492.2988	507.4843
0.05404	1.13979	1224.982	1397.063	1.52314	0.00002	1.52314	1124.009	1711.884
0.26747	1.06539	918.8019	979.3997	-1.01026	0.87809	0.98984	838.7675	829.4562
9.75E-15	0.60485	3662.834	2217.979	1.18312	0.00222	1.18312	3231.216	3824.24
0.5275	1.05406	2918.082	3037.601	-1.04131	0.47928	0.96033	6124.08	5852.649
0.31263	0.93685	2086.538	1957.847	1.7417	8.18E-32	1.7417	1799.159	3133.311
0.96178	0.99708	1747.049	1740.753	1.20295	0.00044	1.20295	1590.792	1914.297
0.56285	1.0551	521.3543	547.6716	1.18337	0.03567	1.18337	501.2946	592.4808
0.13791	1.12288	12345.31	14013.26	-1.88517	5.98E-19	0.53046	18444.37	9726.82
0.80639	0.96001	501.4614	485.9457	-1.11744	0.49952	0.8949	482.904	431.3873
0.59204	1.04629	678.3859	707.1451	1.12491	0.06603	1.12491	695.5729	782.8416
0.07907	1.12736	875.8265	989.7935	1.44441	5.41E-10	1.44441	958.4841	1383.549
0.70832	1.08021	239.6903	250.8566	1.06782	0.83981	1.06782	134.9139	144.0068

0.3841	0.90513	717.7629	653.2813	-1.06617	0.44587	0.93794	896.9032	838.1715
0.02709	0.83604	1184.719	992.2063	1.09499	0.27781	1.09499	1086.834	1188.778
0.76845	1.35748	29.07792	39.60102	1.97796	0.41122	1.97796	36.60757	75.86938
0.61659	1.0883	164.1245	178.6659	-1.44877	0.13494	0.69024	158.0667	109.2405
0.65151	1.01949	4320.009	4404.993	-1.06968	0.30606	0.93486	4878.986	4542.21
0.88441	0.97811	819.3375	811.7373	-1.34112	0.00043	0.74565	686.4228	512.7501
0.82598	0.95406	329.2568	304.2516	1.25014	0.02286	1.25014	351.2555	439.3837
0.804	1.01853	544.926	555.975	-1.07314	0.46601	0.93184	563.2689	523.2102
0.7744	1.02441	813.6598	832.5667	-1.05207	0.47143	0.95051	608.8721	578.4634
0.85502	0.93325	81.63654	76.11298	-1.15311	0.81144	0.86722	64.24584	56.12037
0.0729	0.91709	73609.31	67433.47	1.00504	0.9369	1.00504	84529.9	84897.3
0.07131	1.08116	2796.895	3023.667	1.03465	0.44205	1.03465	2496.979	2584.052
0.43607	1.10411	271.8048	299.6006	1.04744	0.7529	1.04744	286.0444	301.1796
0.75864	1.07622	122.895	132.8279	-1.06891	0.66388	0.93553	229.5709	214.6849
0.66182	0.79339	74.89032	58.30923	1.01936	0.97685	1.01936	54.59049	56.52174
0.83796	1.03136	246.0165	252.4861	-1.06373	0.7217	0.94009	213.6861	200.5336
0.06083	0.80454	4373.815	3518.918	-1.51402	1.13E-20	0.66049	3944.486	2605.411
0.97856	0.99496	195.2269	194.5265	-1.06797	0.73877	0.93635	207.9171	193.5765
0.76374	0.95522	491.1295	460.6516	-1.49437	0.02502	0.66918	409.8359	276.9261
0.2002	1.08263	1967.661	2130.411	1.49429	6.91E-12	1.49429	2164.779	3232.06
0.1091	1.13193	5031.193	5694.465	1.01707	0.74332	1.01707	4936.153	5016.839
1.91E-07	0.62809	3083.051	1923.082	-1.30549	0.00053	0.76599	2371.698	1821.624
0.95573	1.07401	19.74018	24.1437	1.28072	0.83667	1.28072	23.63285	37.66052
0.972	1.00481	453.5341	449.2769	1.51069	1.24E-07	1.51069	438.1367	662.3115
0.42622	0.93251	1414.323	1313.384	1.21071	0.01924	1.21071	1270.78	1540.282
0.08238	0.78686	437.2853	340.0244	1.24798	0.01376	1.24798	371.2945	462.9935
0.02587	0.86341	890.8157	769.6872	-1.17187	0.05028	0.85334	953.2408	812.0429
0.71472	1.07226	321.4252	338.9936	1.43585	0.00127	1.43585	299.1299	430.4499
0.64182	0.9155	218.1241	202.0529	-1.16935	0.40004	0.85518	201.137	172.0024
0.43427	0.93002	51248.77	47809.22	3.91704	0	3.91704	54432.23	213332.3
0.90636	1.08977	52.84684	55.89701	1.31326	0.5545	1.31326	80.98454	108.8162
0.79402	0.93102	155.2322	144.7301	1.02491	0.88124	1.02491	222.0313	226.9117
0.6714	1.02555	1214.276	1243.625	1.13493	0.00844	1.13493	1139.065	1292.804
0.029	0.7909	5491.253	4357.914	1.42219	0.00014	1.42219	4683.916	6680.975
0.35974	0.87726	279.3797	246.6023	-1.22513	0.27776	0.81624	203.8978	166.4298
0.67194	1.3293	40.65452	53.78511	2.03558	0.3669	2.03558	32.02313	66.02477
0.78934	0.84424	51.73362	43.20807	1.01944	0.98233	1.01944	41.4045	43.0742
0.01182	0.69185	892.6146	608.8134	1.46148	0.00072	1.46148	670.9334	987.6845
0.0552	1.11971	941.2643	1052.251	1.05634	0.30751	1.05634	966.3892	1020.776
0.56407	0.96537	771.3453	745.1339	-1.0472	0.67893	0.95493	791.9954	752.2605
0.76922	0.94939	273.7712	263.4322	2.74729	1.95E-14	2.74729	227.4141	621.5906
0.71377	0.97835	851.7467	832.3701	1.26605	0.00003	1.26605	851.8666	1078.865
0.16992	1.08768	2191.718	2382.456	-1.33042	3.05E-06	0.75164	2061.056	1550.266
1.26E-06	0.55978	2097.17	1162.099	1.50622	1.96E-08	1.50622	1425.218	2153.378
0.01586	1.15826	1093.485	1267.146	1.7194	2.66E-09	1.7194	975.7507	1677.357
7.40E-13	1.44804	16663.45	24087.54	-1.05994	0.20059	0.94345	14836.58	13997.49
0.08145	0.67009	227.1852	155.1216	1.14365	0.70294	1.14365	157.4041	176.0213
0.6956	0.96583	503.0216	484.8824	1.4004	1.57E-06	1.4004	492.8174	689.9509
0.86082	1.02467	2671.717	2701.166	-1.87813	4.88E-22	0.53244	3227.262	1717.688
0.13274	0.8337	17362.21	14679.93	1.54147	4.22E-07	1.54147	18223.95	28182.8
0.28734	0.90033	646.5342	585.537	1.00604	0.96371	1.00604	429.925	436.1079
0.00777	1.1759	2443.613	2873.27	-1.01901	0.71323	0.98134	3095.639	3035.517

0.92589	1.00491	5054.671	5077.179	-1.1724	0.04351	0.85295	4993.854	4241.117
0.10206	1.08265	1064.523	1152.802	1.01874	0.75136	1.01874	1224.168	1248.596
0.32627	1.20257	189.4907	230.452	-1.42448	0.07234	0.70201	246.9564	172.2473
0.37034	0.91425	844.203	768.1962	2.34862	3.73E-35	2.34862	787.9307	1852.138
0.2529	1.09959	951.3331	1050.005	1.4136	0.00127	1.4136	682.4683	959.9917
0.17894	1.08141	1263.969	1364.935	-1.00208	0.97407	0.99793	1364.964	1366.497
0.61948	1.03457	4006.963	4131.344	1.08612	0.07264	1.08612	3804.209	4131.546
0.83556	1.02547	359.0523	368.1839	-1.18418	0.0114	0.84446	636.2771	537.3016
0.35893	0.85037	3934.501	3267.312	-3.41673	0	0.29268	3388.646	991.8793
0.17815	1.09916	890.7178	976.1752	1.54797	0.00928	1.54797	575.6474	906.4522
0.79338	0.82473	42.13062	34.51348	1.18014	0.84551	1.18014	37.56098	45.27548
0.00004	0.8155	3054.932	2493.202	-1.06438	0.30605	0.93951	2600.313	2445.848
0.08594	0.79959	1977.726	1567.608	1.01798	0.8914	1.01798	1743.748	1779.59
0.30349	0.89173	631.7871	567.6603	-1.05343	0.50961	0.94928	504.9451	479.0869
0.0522	1.14882	1174.006	1354.063	1.02915	0.6503	1.02915	1918.153	1983.263
0.43945	0.95026	6624.66	6293.53	1.20942	0.0218	1.20942	6298.853	7638.784
0.7841	1.05173	246.8545	263.7187	1.13625	0.23466	1.13625	360.506	409.1616
0.27919	1.092	1702.234	1846.01	2.50956	2.15E-13	2.50956	1635.604	4146.997
0.00107	0.76124	1145.882	870.6439	1.27973	0.00882	1.27973	691.1126	882.1559
0.7271	1.03228	682.1521	700.5771	1.10976	0.10522	1.10976	672.6888	746.868
0.1152	0.863	2740.659	2369.968	-1.25184	0.00341	0.79883	2608.137	2084.35
0.36248	0.82254	353.1586	280.1335	1.52077	0.01556	1.52077	298.3279	459.1284
0.05775	1.1717	480.1015	561.6619	1.35115	0.00187	1.35115	456.7847	615.4495
0.85561	0.86286	53.50474	48.90569	-1.16435	0.86304	0.85885	42.31859	38.93317
0.07714	0.81682	2198.597	1795.83	1.21275	0.03671	1.21275	1764.612	2145.761
0.85829	1.20082	33.93429	39.10657	-1.00951	0.99476	0.99058	24.24269	31.38383
1.81E-09	0.52427	11253.34	5880.749	-1.8071	3.04E-28	0.55337	8570.212	4739.027
0.15858	0.78301	682.4504	523.1354	2.40206	1.44E-20	2.40206	603.6335	1452.982
0.79334	1.02423	387.4884	396.1108	1.01135	0.91629	1.01135	408.6492	412.0641
0.22587	1.08614	3444.246	3752.742	-1.20215	0.00864	0.83184	4155.61	3448.602
0.71916	1.06203	166.5075	176.8073	1.0979	0.75181	1.0979	149.7766	164.3642
0.08237	0.72116	317.746	224.9282	-1.14447	0.36804	0.87377	282.1926	247.2896
0.1298	1.13539	913.2257	1035.195	1.04232	0.44069	1.04232	1647.366	1714.804
0.63809	0.9126	498.4815	463.7137	-1.64204	0.00007	0.609	471.4694	285.7489
0.0615	0.82023	970.1541	792.7773	1.64947	1.07E-18	1.64947	836.7315	1379.734
0.01309	0.78803	4233.246	3342.833	1.12128	0.2018	1.12128	3876.198	4336.702
0.49175	1.07471	578.4837	617.6404	1.37747	0.00002	1.37747	518.3151	713.1835
0.00855	1.17011	1953.118	2281.031	-1.2081	0.00385	0.82775	1887.443	1564.069
1.11E-06	0.68664	2558.867	1750.418	-1.27088	0.00208	0.78686	2099.225	1652.129
0.13713	1.2074	6147.239	7261.017	-3.11484	4.76E-39	0.32104	11288.43	3574.492
0.80453	0.96298	250.9069	240.2468	1.15325	0.3043	1.15325	227.9851	263.184
0.91996	1.01535	709.3766	730.3483	-1.84778	0.00058	0.54119	762.161	415.0192
0.3671	0.81941	454.2731	360.4352	-1.03282	0.84525	0.96823	354.8241	344.652
0.82871	0.90997	196.946	179.2157	1.07872	0.70262	1.07872	175.5263	189.0221
0.88697	1.01203	827.9658	842.7462	-1.08119	0.40612	0.92491	790.3148	728.3976
0.88568	1.01005	820.0919	830.4959	-1.00734	0.94519	0.99271	862.6165	852.7914
0.43571	0.88512	7492.361	6722.684	1.845	6.75E-16	1.845	6264.183	11566.84
0.66769	0.96545	574.6481	556.2034	1.06207	0.41545	1.06207	499.8209	530.9378
0.28512	0.82732	328.6823	276.0277	-1.32293	0.17148	0.7559	231.1035	173.4467
0.05689	1.09154	2196.407	2399.154	1.05382	0.27501	1.05382	2543.785	2681.951
0.57241	0.96482	970.3356	935.271	-1.65598	1.23E-13	0.60387	972.0314	586.3611
0.27266	1.10747	11522.12	12766.03	1.61101	7.72E-20	1.61101	11131.75	17941.03

0.10695	1.2276	333.9104	406.4009	1.1073	0.31832	1.1073	385.0306	426.1137
0.04778	0.89349	1069.354	955.7484	-1.21329	0.04668	0.8242	919.0709	753.9153
0.78277	1.02021	1621.258	1643.491	-1.00459	0.93939	0.99543	1844.084	1833.166
0.53188	1.05425	10370.87	11054.63	-1.09668	0.02308	0.91184	12866.89	11732.13
0.26965	0.90371	2171.081	1974.099	1.47081	1.84E-07	1.47081	2158.363	3189.122
0.50777	1.05528	542.0834	570.5961	-1.09041	0.30096	0.91709	580.3352	533.1464
0.55118	0.93238	1432.822	1358.594	-1.25005	0.00194	0.79997	1351.315	1081.595
0.3505	1.12037	584.9498	649.4825	1.02544	0.76843	1.02544	660.52	679.1057
0.9787	0.97463	41.48837	40.91706	1.04036	0.96027	1.04036	51.18763	52.88665
0.19812	1.07436	826.2625	887.9981	-1.05902	0.63557	0.94427	889.7283	835.359
0.10427	0.65492	221.4786	140.8657	1.10862	0.65601	1.10862	142.8641	157.99
0.81574	0.98323	561.4273	551.4193	1.14809	0.19728	1.14809	499.0976	570.518
0.78855	1.01656	2947.977	2979.844	1.00563	0.9044	1.00563	4189.93	4217.638
0.69643	1.07344	239.4379	257.7941	-1.0992	0.51612	0.90975	273.2352	248.3565
0.00021	0.65649	2450.48	1597.713	-1.13902	0.21255	0.87795	2068.563	1837.364
0.0262	0.72702	2544.502	1822.778	-1.21528	0.05824	0.82286	1919.175	1588.766
0.92107	0.86809	25.24582	23.52708	1.18438	0.92293	1.18438	19.03014	33.86245
0.90482	1.01506	697.7759	702.8464	1.23841	0.01692	1.23841	905.0066	1124.19
6.28E-10	0.72003	1873.877	1349.509	1.12748	0.14771	1.12748	1497.775	1687.744
0.82758	1.02241	390.9513	401.1243	1.35341	0.00183	1.35341	344.0133	464.9829
0.00452	1.16828	3627.7	4238.445	-1.49521	8.88E-09	0.6688	4518.496	3006.709
0.57215	1.09662	901.5045	1005.353	-1.59106	0.00013	0.62851	568.8292	359.7859
0.72051	1.03425	1018.966	1046.604	-1.01188	0.88062	0.98826	1023.739	1013.577
0.00012	1.18421	2843.889	3367.693	-1.392	8.17E-06	0.71839	3914.425	2799.643
0.04684	0.91424	1917.447	1752.937	1.73811	6.16E-17	1.73811	1644.537	2864.634
4.38E-10	1.33108	2614.822	3483.072	-1.94851	7.01E-33	0.51321	3863.943	1985.344
0.03636	0.7947	2241.104	1773.537	1.18346	0.01012	1.18346	1863.584	2206.997
0.26599	0.91284	2586.45	2368.887	1.57221	1.11E-07	1.57221	2506.259	3936.874
0.87836	0.9891	5037.642	4931.817	-1.12146	0.01266	0.89169	4430.125	3951.545
0.29996	1.10744	543.733	604.713	-1.03493	0.64662	0.96625	1017.947	983.7653
0.71281	0.89656	110.6168	99.19798	-1.00465	0.98789	0.99537	124.5001	124.3234
0.69374	1.03527	1464.071	1497.454	-1.43791	1.58E-10	0.69545	1454.69	1011.471
0.07697	0.83889	4456.847	3789.612	1.15462	0.00063	1.15462	5463.85	6309.603
0.21617	1.0861	5369.328	5838.929	1.49487	1.24E-21	1.49487	4685.556	7004.074
0.62643	0.96745	841.8031	816.5022	1.00868	0.90513	1.00868	782.9938	788.6995
0.79494	1.02029	7184.897	7238.536	-1.33214	1.06E-11	0.75067	8573.032	6436.491
0.99888	0.99991	608.3057	608.1907	-1.007	0.94349	0.99305	614.9877	608.2545
0.71828	0.98336	3144.484	3090.831	-1.09853	0.05626	0.91031	3385.477	3080.818
0.85703	0.97573	564.6729	544.4174	1.36292	0.00105	1.36292	697.1304	953.9589
1.04E-07	0.74682	2564.507	1909.242	-1.82262	3.46E-13	0.54866	2040.615	1121.351
0.26366	1.07271	634.52	680.2568	1.01533	0.85066	1.01533	691.3687	700.4428
0.50031	0.94115	860.1946	807.1563	-1.00892	0.92141	0.99116	737.978	729.0439
0.51189	1.10183	284.3003	312.6548	1.70486	8.03E-08	1.70486	364.3643	619.5477
0.9559	0.99047	172.8807	170.987	1.17043	0.49986	1.17043	163.2354	189.6086
0.28826	0.93992	2985.645	2798.909	-1.09042	0.06174	0.91708	2843.875	2607.026
0.98587	1.00744	67.68042	68.50191	-1.16072	0.8453	0.86154	64.72002	53.39669
0.57629	1.0352	1986.67	2062.036	1.04002	0.61353	1.04002	2197.896	2283.14
0.47697	1.13627	237.2505	269.616	1.25294	0.1363	1.25294	251.5182	313.4769
0.01357	1.1708	705.5536	827.4454	-1.0806	0.3416	0.92542	738.4662	684.8921
0.4576	1.04581	3222.281	3390.552	-1.07721	0.23843	0.92833	3109.606	2871.602
0.00319	0.6507	2005.038	1301.853	1.06085	0.45991	1.06085	1821.296	1934.559
0.11349	0.86629	941.3264	813.0591	1.04237	0.51288	1.04237	971.52	1013.057

0.58764	1.32281	58.33932	76.13385	1.28822	0.66801	1.28822	71.91786	90.24193
0.01885	0.7266	677.5209	485.7309	1.06169	0.53062	1.06169	536.0488	570.8026
0.58879	0.60113	43.49728	25.91512	1.25119	0.90424	1.25119	17.08467	31.68673
0.06822	1.12271	920.1334	1031.391	-1.13304	0.04783	0.88258	804.4933	709.983
0.2752	0.81055	250.8513	200.1499	-1.00256	0.99003	0.99744	209.3671	209.1184
0.35821	0.94213	572.1904	538.9633	-1.25624	0.09555	0.79603	528.6263	418.7271
0.93106	1.00982	2152.851	2160.529	1.3925	0.01425	1.3925	1768.143	2486.998
0.9385	0.99239	45525.45	45466.7	-1.30363	0.00005	0.76709	46796.95	35825.61
0.74661	0.96039	468.7023	454.6292	-1.11339	0.41224	0.89816	376.6779	339.6687
0.65178	1.02788	1036.108	1063.785	1.41463	1.42E-06	1.41463	864.2947	1224.899
0.58867	0.76141	76.78641	59.30675	-1.54877	0.51594	0.64567	71.49248	47.20845
0.75291	0.96322	1478.724	1477.845	-1.17517	0.01599	0.85094	1553.589	1318.37
0.62236	1.42048	33.08393	46.90065	1.26858	0.79531	1.26858	35.49881	44.85022
0.38987	1.0597	653.0364	693.2677	-1.04421	0.59795	0.95766	711.9917	680.359
0.01003	1.38762	389.3223	535.4072	1.23154	0.08085	1.23154	293.5497	361.1349
0.51733	1.24309	103.9133	126.2959	1.06483	0.84946	1.06483	108.792	115.841
1	1	17.84824	22.86572	1	1	1	20.18312	30.20469
0.01738	1.19326	952.5607	1134.058	1.25869	0.00524	1.25869	927.1427	1172.958
0.57306	0.90635	4927.696	4410.855	-2.22607	5.87E-40	0.44922	4290.875	1925.72
0.15114	1.12087	947.4735	1057.422	1.06957	0.22036	1.06957	1114.414	1192.51
0.70521	1.03007	3384.068	3515.393	-1.15461	0.02192	0.86609	3253.179	2815.617
0.16069	1.08405	2218.153	2397.496	1.10513	0.05309	1.10513	2404.215	2659.02
0.57405	1.07201	362.4808	389.614	1.29575	0.02454	1.29575	327.9011	423.5315
0.72829	0.95865	345.6859	329.5111	1.66547	3.88E-06	1.66547	247.2919	411.5187
0.87393	0.96377	202.2022	199.0446	-1.6675	0.02008	0.5997	206.4739	123.708
0.00545	0.79978	787.6246	627.9031	1.51535	0.00035	1.51535	548.6231	837.3186
0.09076	0.82822	2981.188	2476.265	1.13118	0.2148	1.13118	2530.359	2869.025
0.72266	1.09046	116.5765	126.7193	1.0879	0.76853	1.0879	110.3762	120.3412
0.00595	1.13742	14554	16585.02	-1.48239	1.29E-12	0.67458	20935.66	14100.89
0.69447	0.92359	171.1337	158.838	1.09743	0.69312	1.09743	139.2851	153.2551
0.47094	0.95145	776.7335	740.8173	1.33469	6.54E-06	1.33469	711.15	950.0444
0.00084	0.61088	5097.869	3051.753	1.23185	0.05638	1.23185	3061.386	3822.758
0.00002	0.76886	37603.49	28901.18	-1.33308	1.64E-06	0.75014	40616.8	30597.03
0.63499	0.86762	153.8715	137.1692	-1.80653	0.11287	0.55355	119.4527	66.08522
0.00437	1.215	648.9809	788.8209	-2.69642	1.47E-11	0.37086	638.8963	238.7211
0.66224	1.08093	214.1476	233.9254	-1.09017	0.73045	0.91729	194.9388	176.0331
0.90148	1.0128	431.6471	435.0494	-1.10012	0.30219	0.909	469.1973	425.9746
0.32018	1.10561	716.8572	797.394	1.12765	0.25957	1.12765	642.9638	721.5648
6.56E-17	2.4586	274.7971	677.7004	1.1365	0.37602	1.1365	349.9143	394.4963
0.23387	1.05664	1298.143	1371.52	1.01495	0.79041	1.01495	1347.822	1369.95
0.77758	1.02456	481.5385	492.881	-1.03799	0.68888	0.9634	495.9226	477.0417
0.00087	0.82614	5157.683	4251.339	-1.19297	0.0093	0.83825	5181.661	4362.25
0.93277	0.99425	621.4581	618.7679	1.07994	0.44028	1.07994	522.1031	565.5084
0.00852	1.14622	1114.277	1277.796	1.01935	0.75774	1.01935	1112.375	1132.493
0.11601	1.1073	1574.62	1744.836	1.02674	0.67528	1.02674	2061.225	2114.652
0.81596	1.05987	528.0118	581.4522	-2.95404	6.13E-07	0.33852	323.1207	109.1881
0.59387	0.92946	7541.638	7129.269	1.12027	0.30211	1.12027	7870.532	8738.379
0.011	0.8666	5097.35	4397.68	-1.15177	0.1341	0.86823	4602.234	3981.275
0.07387	0.80132	8166.853	6608.48	1.93417	6.96E-30	1.93417	6753.607	13084.63
0.38038	1.06498	2320.956	2497.897	-1.17966	0.00037	0.8477	2722.173	2306.483
0.7943	1.01628	1051.9	1066.034	1.08789	0.1408	1.08789	964.2444	1049.833
0.95934	1.00423	2207.72	2213.356	-1.11769	0.01372	0.8947	1929.261	1725.781

0.00106	0.76885	24362.21	18775.09	1.0839	0.30506	1.0839	22738.09	24586.5
0.76965	1.1161	75.3338	84.38066	-1.19215	0.73727	0.83882	71.21381	59.69989
0.10918	0.85762	70660.94	60768.05	-1.09592	0.33221	0.91248	70903.86	64550.2
0.64264	0.92184	292.3851	267.3638	2.23966	7.74E-06	2.23966	238.5915	538.1115
0.35214	0.86134	3779.976	3256.198	-1.43201	1.25E-13	0.69832	2551.017	1781.52
0.62943	1.04568	348.3351	363.9852	-1.0137	0.90954	0.98649	376.8348	372.3436
0.28366	0.88106	7253.328	6408.019	1.23125	0.03919	1.23125	6955.791	8567.219
0.9047	0.98147	281.434	274.7981	-1.0986	0.7724	0.91025	157.0222	145.0875
0.37279	0.90393	481.0723	437.8231	1.02958	0.89097	1.02958	365.5746	375.2068
0.70985	1.05189	473.8962	491.2049	1.79438	0.00005	1.79438	441.8998	787.0794
0.87685	1.01328	448.198	454.6409	1.39708	0.00047	1.39708	406.0458	568.6788
0.00436	1.14902	1486.877	1709.933	1.11354	0.06778	1.11354	1668.641	1859.933
0.00019	1.3316	965.3034	1282.178	1.20992	0.28547	1.20992	894.0095	1076.615
0.00107	1.18376	791.0061	936.3471	-1.01063	0.87481	0.98949	739.019	730.7543
0.72814	0.93278	207.8289	194.8984	1.0055	0.97956	1.0055	203.9186	203.2953
0.00037	0.77756	1008.266	781.2426	-1.62895	3.83E-06	0.61389	727.106	448.1657
0.37088	1.08456	1210.474	1323.546	-1.12257	0.22541	0.89081	1414.78	1259.613
0.9081	1.01219	1183.615	1196.971	1.12264	0.49427	1.12264	1132.469	1271.34
0.46959	1.04369	2533.117	2630.076	1.03341	0.49048	1.03341	2529.232	2617.143
0.01661	0.7782	64832.66	50429.43	1.10996	0.29203	1.10996	58840.16	65432.05
0.24407	0.8827	419.6724	368.9162	3.07849	7.39E-33	3.07849	323.7634	994.6863
0.73369	1.03104	1383.909	1429.342	-1.44538	4.83E-08	0.69186	1709.328	1180.269
0.06359	0.68049	2319.218	1595.389	-1.04417	0.79268	0.9577	860.9429	829.153
0.02233	0.88941	2623.623	2333.386	5.49126	0	5.49126	2389.621	13124.91
0.93768	0.99547	773.9745	771.1066	1.3038	0.00015	1.3038	665.2584	866.2074
0.0079	1.17366	978.6966	1150.732	1.43381	3.15E-08	1.43381	1171.655	1679.481
1	1	18.18312	23.73466	1.09244	0.93627	1.09244	27.98994	38.59132
0.39026	0.88543	304.2247	271.5025	-1.0592	0.78935	0.94411	214.4078	204.2204
0.30526	0.85611	978.9403	845.2387	-2.30695	7.55E-14	0.43347	659.7443	287.0032
0.16531	1.06272	4863.979	5174.307	-1.10788	0.04592	0.90262	5261.421	4743.739
0.00327	1.12824	8478.514	9565.78	-1.37519	0.00004	0.72717	10141.37	7352.213
0.12429	0.86717	380.5046	329.7787	1.31888	0.01853	1.31888	296.9713	390.6954
0.01123	0.87182	5737.008	5005.024	1.36092	1.84E-10	1.36092	5433.211	7404.396
0.00003	0.57237	577.0303	326.2737	-1.09639	0.46222	0.91208	393.0666	357.2757
0.9247	0.97112	128.3236	122.0529	-1.27894	0.43063	0.78189	126.9879	99.74889
0.53385	1.05857	1178.289	1251.815	-1.10811	0.11065	0.90243	1196.686	1077.548
0.00184	0.71001	854.1687	601.7595	-1.19609	0.00995	0.83606	677.1125	566.021
0.19789	1.08566	1455.845	1587.13	1.14129	0.00972	1.14129	1839.818	2101.651
0.55262	0.8545	144.2486	122.233	1.28456	0.42204	1.28456	109.4551	139.4281
0.17542	0.79249	1116.91	888.9032	3.51995	4.85E-23	3.51995	524.9645	1865.937
0.03239	1.13586	2931.372	3319.83	-1.10406	0.15168	0.90575	2568.052	2324.983
0.89805	1.02956	150.7783	154.6859	1.01534	0.95642	1.01534	144.2073	146.437
0.30849	1.14474	370.8579	420.5418	1.47535	0.00001	1.47535	322.7725	476.2174
0.01321	0.8021	1379.717	1101.436	-1.12714	0.16618	0.8872	1220.17	1086.266
0.44277	1.06758	4524.776	4815.68	1.00065	0.99095	1.00065	5109.464	5124.733
0.00737	0.79101	824.3072	650.1231	1.38989	1.95E-09	1.38989	903.3113	1255.547
0.78925	1.02928	397.5073	407.0869	1.24506	0.0304	1.24506	431.7582	535.8958
0.00104	0.76352	6087.754	4644.815	-1.15038	0.07658	0.86928	5233.314	4555.558
0.54832	1.04601	5008.139	5196.855	-1.08714	0.05983	0.91985	5164.291	4756.592
0.00066	0.81094	17781.16	14429.43	1.21717	0.00115	1.21717	19391.32	23494.59
0.41196	0.89046	471.8483	414.8261	-2.03437	0.00009	0.49155	354.1471	172.9003
2.06E-11	0.62901	2575.645	1620.572	-1.04399	0.36569	0.95787	2621.631	2513.239

0.01619	1.14747	1733.783	1988.209	1.15614	0.008	1.15614	1819.139	2103.299
0.5705	0.96444	2362.451	2280.416	1.09094	0.26836	1.09094	2495.074	2712.691
0.19561	1.08874	1501.183	1633.45	-1.01348	0.80896	0.9867	1236.486	1221.467
0.14731	0.89927	4943.516	4438.258	1.31065	0.00036	1.31065	4921.06	6478.854
0.46791	0.8971	228.9371	205.6465	-1.74914	0.04436	0.57171	173.6891	99.92282
0.75383	1.02511	585.127	601.1509	-1.50963	2.45E-06	0.66241	487.2591	322.7639
0.01314	1.28149	774.7517	993.8082	-3.14229	1.62E-32	0.31824	909.3859	288.9537
4.34E-31	0.58519	3789.752	2217.589	-1.64841	1.39E-09	0.60664	2995.979	1812.055
0.55823	0.89414	341.8743	314.954	-1.05454	0.75595	0.94828	271.9327	255.7108
0.22317	1.10366	598.0372	661.5591	1.1501	0.14464	1.1501	456.3921	524.725
0.25418	1.17031	210.9216	246.3344	1.5831	0.00954	1.5831	196.7605	309.6848
0.87112	0.98419	1303.438	1279.897	1.60174	1.42E-07	1.60174	1158.748	1866.318
0.89231	0.96255	160.4346	153.9463	1.24972	0.27698	1.24972	179.5038	224.8543
0.19007	1.08264	5557.345	6030.741	-1.3211	2.28E-11	0.75694	5214.019	3946.811
0.73948	1.03488	4062.156	4249.712	-1.09213	0.25531	0.91564	4390.417	4005.365
0.20602	1.10422	785.1615	864.5972	1.2423	0.00009	1.2423	808.1997	1004.24
0.12631	1.06626	2605.572	2778.207	-2.3247	3.29E-29	0.43016	2397.472	1029.449
0.04459	0.82517	548.5313	454.3917	-1.33713	0.22223	0.74787	419.7505	308.9907
0.86797	0.90125	58.10053	51.11441	-1.33458	0.66659	0.7493	58.02686	43.8885
0.65815	1.06005	565.1091	592.2335	1.15447	0.14022	1.15447	533.1729	613.3586
0.00028	0.73423	5192.067	3839.301	-1.34417	0.00001	0.74395	4887.325	3639.391
0.4655	1.07141	704.6738	750.5751	1.102	0.1723	1.102	661.7944	728.5149
0.15634	0.93385	1705.526	1594.109	-1.14786	0.02782	0.87119	1540.365	1342.798
5.41E-06	0.75309	3420.121	2572.504	-1.05356	0.3264	0.94916	2709.704	2570.775
0.00685	1.15498	1098.385	1267.117	-1.0075	0.90492	0.99256	1264.591	1253.452
0.05232	0.82239	1402.809	1155.953	1.22394	0.00057	1.22394	1145.791	1403.47
0.45868	1.2849	88.67923	112.6348	1.50105	0.37092	1.50105	92.65723	132.2318
0.0006	0.78726	8605.063	6772.855	1.1355	0.171	1.1355	7536.325	8546.232
0.00013	0.7811	5957.612	4642.008	-1.14764	0.03017	0.87135	5080.291	4422.754
0.94666	1.03368	65.11649	67.98535	1.09869	0.83046	1.09869	69.91298	76.70168
1.43E-07	0.79675	3156.092	2514.334	-1.1105	0.01977	0.9005	2822.876	2540.031
0.61167	0.95637	977.8783	932.2888	1.00016	0.99857	1.00016	845.7722	848.082
0.55743	1.12815	191.8943	216.019	-1.02991	0.78988	0.97096	523.8908	510.2268
0.9713	0.99807	2307.704	2310.252	-1.11729	0.03463	0.89503	2033.665	1817.971
0.46924	1.04008	909.4868	946.4294	-1.07368	0.34028	0.93137	860.5955	799.7226
0.91997	0.9911	460.1231	455.4945	1.14281	0.27162	1.14281	391.243	444.8529
0.19993	1.0645	2696.263	2875.211	1.09345	0.19245	1.09345	2900.711	3168.771
0.11925	1.14308	1412.847	1622.9	1.16403	0.13952	1.16403	1547.995	1801.729
0.08028	1.12831	755.6835	851.6904	-1.21226	0.00135	0.82491	908.8395	750.1428
0.77879	1.01655	4003.738	4087.925	-1.01225	0.77082	0.98789	4010.435	3962.314
0.35511	0.92111	1193.054	1104.31	-1.1221	0.31483	0.89118	1106.39	976.8296
0.99503	0.99731	90.54425	87.86015	-1.02458	0.95797	0.97601	98.97647	96.58774
6.63E-09	0.48554	9871.48	4678.964	1.06338	0.52894	1.06338	5792.771	6170.838
0.46748	1.04883	1419.181	1483.011	-1.03043	0.66552	0.97047	1485.769	1443.924
0.44025	1.07365	692.8768	747.9551	-1.20406	0.00159	0.83052	901.7471	749.199
0.58467	1.05871	318.1563	336.403	1.20463	0.1886	1.20463	285.2728	342.0493
1	1	17.89027	22.65636	1	1	1	17.74228	29.58051
0.52879	0.96725	1208.42	1169.034	1.05702	0.34737	1.05702	987.0056	1042.928
0.99739	1.00019	976.3094	976.6384	1.27994	0.00327	1.27994	867.2354	1106.923
0.86455	1.02662	428.8778	433.1816	1.05065	0.70307	1.05065	392.3912	413.8522
0.76104	1.03884	1211.317	1255.076	-1.22061	0.02861	0.81926	1167.543	952.6401
0.58354	0.97038	1726.032	1676.149	1.87297	2.44E-14	1.87297	1637.299	3059.709

0.00066	0.75691	3100.911	2342.855	-1.16011	0.0146	0.86199	2501.722	2154.824
0.05229	0.59816	386.1406	221.7453	1.94227	0.00002	1.94227	257.6754	501.2482
0.98379	1.00319	1253.66	1268.563	-1.41921	3.00E-07	0.70462	1168.237	822.2848
0.80279	0.98885	3155.663	3122.266	-1.09739	0.05034	0.91125	2511.511	2288.728
0.40772	1.05941	1388.135	1473.922	-1.16099	0.03838	0.86133	1444.53	1241.299
0.2252	1.05376	4942.254	5207.908	1.31144	8.82E-09	1.31144	4799.33	6295.613
0.63323	0.96587	1073.139	1040.732	-1.09179	0.28617	0.91592	922.4378	841.877
0.74519	1.02997	703.5694	720.7017	-1.13658	0.05565	0.87983	660.1194	580.9632
0.44655	1.04753	5401.676	5670.924	1.6778	1.25E-27	1.6778	5690.41	9547.488
0.99556	1.00056	360.5809	361.7164	1.10785	0.35201	1.10785	314.9304	348.6016
0.37083	1.04425	2472.602	2579.583	-1.03716	0.40152	0.96418	2733.372	2635.028
0.48297	0.91654	1544.095	1404.783	-1.01338	0.9006	0.9868	1284.495	1274.275
0.67637	0.95366	503.6939	484.2118	-1.11035	0.23424	0.90062	671.0476	603.9178
0.68529	1.05602	210.458	222.4127	2.30534	4.22E-08	2.30534	190.725	437.3413
0.88922	0.79657	23.30896	20.90628	1	1	1	18.17169	30.50543
0.22607	1.06139	1197.561	1270.835	1.23094	0.00006	1.23094	1270.093	1562.471
0.01164	0.62366	1210.813	737.9271	1.69662	1.14E-07	1.69662	800.9188	1370.031
0.43868	1.08561	483.189	521.1802	1.01889	0.80531	1.01889	474.7398	483.7286
0.09263	1.15032	545.1003	625.0415	1.02607	0.7628	1.02607	531.3519	546.1737
0.10326	1.11296	10349.32	11532.11	-1.17041	0.02758	0.8544	10142.77	8648.295
0.69647	0.96727	806.3826	777.4229	1.31593	0.00018	1.31593	766.9124	1010.592
0.1195	0.77031	595.8168	450.2026	-1.01662	0.89107	0.98365	553.2528	548.1448
0.3087	0.88917	280.45	249.0998	-1.0518	0.82532	0.95075	225.4188	216.7161
0.41727	0.94186	1073.776	1011.151	1.17011	0.00525	1.17011	1159.078	1356.073
0.71182	1.02249	1468.215	1498.084	-1.019	0.79513	0.98136	1427.158	1407.223
0.53455	1.08022	1774.451	1934.651	-1.39438	2.20E-09	0.71716	1986.53	1422.597
1.96E-16	0.65264	3017.608	1969.605	-1.10846	0.31695	0.90215	2329.688	2093.885
0.39444	0.88083	788.8213	685.4427	-1.09694	0.43685	0.91163	700.8806	642.5587
0.32927	1.08454	4813.455	5238.654	1.08891	0.32289	1.08891	4302.216	4794.743
0.93765	1.00578	7955.966	8019.24	-1.43571	4.56E-09	0.69652	7538.518	5254.912
0.81721	1.02088	2968.031	3042.781	1.34131	0.00003	1.34131	2708.48	3633.963
0.00549	1.13068	2502.65	2829.206	1.08055	0.2838	1.08055	2317.85	2506.787
0.42222	0.83156	129.9347	107.9666	5.49529	3.44E-14	5.49529	116.3961	639.2865
0.08291	0.78868	8776.751	6955.783	1.23633	0.03967	1.23633	8496.966	10513.34
0.93995	1.00571	456.8696	459.647	-1.14491	0.16509	0.87343	505.0308	440.0013
0.01661	1.10786	2562.526	2839.365	1.01	0.85232	1.01	3062.283	3092.138
0.80123	1.02245	1480.863	1523.241	-1.02233	0.74878	0.97816	1177.375	1154.802
0.86722	0.94856	132.1209	122.6486	-1.1513	0.69922	0.86858	138.2105	120.7849
3.91E-15	1.40146	2333.287	3269.925	2.64785	6.65E-17	2.64785	2190.536	5865.337
0.66583	1.04459	3371.424	3541.41	3.22459	3.98E-36	3.22459	2861.452	9265.456
0.00001	0.73629	3522.35	2598.429	1.0121	0.86442	1.0121	2739.945	2765.999
0.50855	1.09619	356.4098	394.4764	-1.31754	0.02787	0.75899	368.4346	279.7147
0.26828	0.82455	363.7998	296.3074	-1.02591	0.89818	0.97475	296.5602	292.0111
0.26962	1.05193	1605.641	1688.598	1.09962	0.15571	1.09962	1674.595	1846.968
0.32365	0.95648	6073.866	5811.627	1.00678	0.90379	1.00678	5547.479	5587.743
0.73384	1.0343	423.2453	437.2192	1.19237	0.01686	1.19237	582.8006	694.1771
0.17332	0.91916	2792.069	2580.187	1.02189	0.81001	1.02189	2548.565	2573.986
0.50784	1.04222	6552.622	6803.221	1.02246	0.67227	1.02246	6534.105	6686.184
0.9434	0.99332	571.6793	570.7615	-1.27373	0.02076	0.7851	602.434	474.1264
0.0162	0.62821	1381.724	837.4916	1.62745	0.00153	1.62745	962.5667	1599.016
0.56797	0.96621	1309.974	1264.028	1.23666	0.01828	1.23666	1259.002	1551.464
0.74007	1.01621	1993.854	2025.508	1.02396	0.61701	1.02396	1864.459	1909.906

0.21972	0.79659	182.8406	145.4274	-1.31082	0.3346	0.76288	165.6008	126.0994
0.72757	0.96975	1189.028	1160.569	-1.41612	0.00019	0.70615	910.0687	644.4802
0.82652	1.32031	26.87521	37.84407	-1.06014	0.96566	0.94327	23.78708	31.1859
0.85816	0.95698	137.4099	131.108	1.47013	0.03629	1.47013	231.5291	344.2036
0.00147	0.81256	824.7844	671.2157	-2.14602	3.11E-20	0.46598	842.5774	393.124
0.31379	0.84242	276.4806	235.9726	-1.02732	0.87364	0.97341	241.8581	234.2144
0.63266	0.97169	1010.896	980.3506	1.10616	0.10078	1.10616	1043.763	1152.721
0.43598	0.90633	375.2852	341.5802	-1.05241	0.67644	0.9502	288.6583	274.5263
0.70729	0.91551	172.5452	156.2917	1.0945	0.68952	1.0945	171.9911	187.9735
0.30772	1.05679	1504.251	1590.033	-1.05665	0.30474	0.94639	1608.889	1520.58
0.54058	0.88728	175.1171	154.8979	1.14159	0.6799	1.14159	141.8265	161.0956
0.90771	0.98875	15891.63	15815.44	1.12954	0.17228	1.12954	15139.07	17099.64
0.96123	1.00444	1243.483	1250.195	-1.38023	0.00004	0.72452	1085.219	785.299
0.25196	0.91418	708.8352	649.4901	-1.0819	0.27465	0.9243	647.7408	598.4347
0.73888	1.05582	7528.133	7932.283	-1.1589	0.22508	0.86289	5582.9	4837.64
0.97201	0.99626	642.045	634.9913	1.03786	0.65878	1.03786	538.0828	558.5905
0.77953	0.97087	71145.09	69424.91	1.27777	0.00039	1.27777	70477.59	90140.16
0.3796	1.04592	978.8607	1023.319	-1.06296	0.39862	0.94076	1021.428	961.7714
1.21E-07	1.29607	1593.641	2064.94	1.38185	1.89E-06	1.38185	1643.402	2265.63
0.14803	0.79449	307.4334	241.4088	1.14166	0.48895	1.14166	266.743	301.386
0.93263	0.99019	857.7692	856.2002	-1.49367	0.03138	0.66949	596.8218	401.102
0.67414	1.02938	764.7252	787.554	2.74235	7.07E-13	2.74235	680.0243	1868.996
4.78E-09	0.55235	4988.321	2785.772	-1.4593	3.49E-07	0.68526	5492.392	3780.042
0.01052	1.15224	1832.794	2115.826	1.08816	0.13621	1.08816	2465.076	2689.648
0.75831	1.13841	74.27582	84.4693	-1.16964	0.7638	0.85497	84.01492	71.97935
0.2599	0.82318	359.7264	290.652	1.33218	0.0073	1.33218	303.113	404.3649
0.7431	1.01963	2535.526	2588.521	1.71939	6.94E-17	1.71939	2662.865	4564.38
0.67984	0.92887	174.8788	162.8098	1.08872	0.68071	1.08872	159.9782	174.6343
0.34195	1.10587	8356.555	9254.104	-1.54229	4.23E-07	0.64839	8780.963	5666.977
0.28437	0.8217	170.8846	140.5721	-1.16739	0.56527	0.85661	155.8622	133.1881
0.7463	1.02251	3990.104	4075.051	1.05675	0.30338	1.05675	3780.591	3995.469
0.59019	0.91472	442.0233	395.9434	-1.08494	0.51958	0.92171	322.5065	297.9169
0.2932	1.07009	803.3796	858.9033	1.46768	0.00097	1.46768	711.9679	1042.081
0.46942	1.04196	1493.625	1561.7	-1.04138	0.492	0.96026	1433.927	1375.139
0.57081	0.89381	151.3368	135.3274	-1.01856	0.943	0.98178	158.0853	154.0689
0.03639	0.82834	6156.213	5073.424	1.12252	0.07225	1.12252	5522.158	6217.757
0.69433	1.02485	1254.527	1289.76	1.13642	0.05227	1.13642	1312.591	1490.919
0.21024	1.18203	2672.172	3172.745	1.70285	1.73E-09	1.70285	2720.736	4649.151
0.85478	0.91205	60.99534	55.54153	-1.54469	0.70444	0.64738	39.08091	28.86882
0.19401	1.1229	762.821	854.9841	1.56593	0.00074	1.56593	676.07	1055.328
4.71E-07	1.28974	5230.327	6753.852	-1.81363	2.56E-10	0.55138	8615.35	4708.945
0.61804	0.70121	64.15852	43.19537	1.21072	0.78493	1.21072	50.43826	62.22846
0.53872	1.16973	120.3941	141.8026	1.34844	0.44003	1.34844	95.82491	127.1666
0.64918	1.04181	1011.652	1061.129	-1.05797	0.5196	0.9452	838.5934	789.7662
0.48059	1.06287	792.3818	846.4379	1.08501	0.41118	1.08501	751.3666	812.0692
0.87791	0.98921	1400.882	1385.634	-1.07105	0.45156	0.93366	1218.154	1133.616
0.02357	0.71776	2573.733	1869.548	1.29442	0.01988	1.29442	2687.997	3498.008
0.41447	1.13178	221.0734	249.7491	1.07668	0.56956	1.07668	249.2853	268.5816
0.02171	1.12379	1575.305	1770.466	-1.03791	0.55574	0.96348	1487.677	1433.297
0.16735	1.09705	1861.6	2035.808	1.09661	0.17335	1.09661	2667.795	2877.556
0.67608	0.90589	154.397	139.1053	1.4418	0.00604	1.4418	309.9333	448.4804
0.07288	1.1548	472.8621	545.4083	1.27685	0.00156	1.27685	439.1082	560.3745

0.79011	1.36998	24.23012	32.22636	1.19105	0.88399	1.19105	26.19944	36.14296
0.39862	1.07673	749.9883	805.6876	1.08422	0.13505	1.08422	1473.698	1599.169
0.20681	1.09426	691.4746	755.0159	1.01471	0.81636	1.01471	772.3063	783.2607
0.0047	0.68874	6771.174	4625.829	1.225	0.06365	1.225	4924.401	6072.534
0.39222	0.95571	884.0927	844.6261	-1.08066	0.28181	0.92536	919.6089	849.0963
0.16465	1.27453	215.9676	271.8901	1.53124	0.00352	1.53124	211.8625	323.5068
0.79819	1.15676	58.56482	65.90796	1.14142	0.74564	1.14142	81.1862	93.36481
0.38198	0.87919	289.9537	253.551	-1.23325	0.20889	0.81087	258.3201	209.4959
0.35598	0.88571	4417.863	3846.299	-1.59444	3.95E-25	0.62718	4200.89	2634.331
0.00642	0.51926	4392.869	2128.557	1.28626	0.19609	1.28626	2535.908	3389.51
0.88923	0.99312	5088.745	5034.459	1.18669	0.00007	1.18669	5500.008	6527.333
0.08963	0.80058	1277.836	1017.348	-1.27246	0.0506	0.78588	1117.069	881.5693
0.7188	0.92103	300.1985	288.952	-1.07373	0.58708	0.93134	396.9993	367.3433
0.03151	1.12511	978.1576	1099.253	1.1094	0.07208	1.1094	1098.532	1218.12
0.0534	0.81167	4819.071	3902.881	1.08985	0.34539	1.08985	3911.16	4282.452
0.67257	1.06345	511.7155	536.4081	1.72436	5.02E-10	1.72436	448.7879	775.7299
0.08435	0.72848	1012.444	726.3374	-1.34029	0.02715	0.74611	999.105	747.843
1	1	19.89042	23.51283	1	1	1	17.25777	32.59355
0.83121	0.93356	108.1528	101.0705	1.0508	0.86613	1.0508	100.7356	105.8733
0.32806	1.0546	1404.519	1482.908	-1.14582	0.05858	0.87274	1535.445	1335.795
0.84524	1.02229	2500.231	2529.067	1.4393	2.32E-07	1.4393	2375.762	3435.877
0.06786	1.15663	1818.486	2107.377	-1.61213	7.37E-19	0.6203	1750.478	1084.921
0.26851	1.1228	391.5676	441.804	1.4949	0.0052	1.4949	353.8174	524.819
0.66711	0.95568	449.2908	426.987	1.02535	0.8588	1.02535	373.7511	386.5866
0.7828	0.97192	1003.246	970.7828	1.07861	0.23334	1.07861	873.0031	942.1582
1	1	19.40625	22.30424	1	1	1	16.313	31.00521
0.51571	1.03452	1434.479	1483.231	-1.07989	0.07085	0.92602	2449.992	2268.598
0.60092	1.0662	567.2076	598.9984	1.75884	9.95E-14	1.75884	548.9208	963.9253
0.15303	1.07765	1004.301	1082.719	-1.04312	0.38517	0.95866	1171.721	1123.35
0.10172	1.07421	3023.436	3249.957	1.08841	0.05264	1.08841	3152.651	3430.294
0.00216	0.8327	24989.7	20795.68	1.30912	0.00006	1.30912	21883.61	28694.8
0.03076	0.79349	544.7095	434.9667	1.02943	0.76583	1.02943	448.876	461.0913
0.39596	0.91161	2033.524	1851.143	1.82182	4.02E-08	1.82182	1715.493	3171.516
0.00006	0.81996	2154.558	1767.264	-1.15994	0.00875	0.86211	1853.238	1598.37
0.76537	1.146	73.05431	83.40784	1.17592	0.74219	1.17592	76.42249	89.31769
0.03982	0.71099	5008.394	3508.703	-1.03501	0.7913	0.96618	4045.005	3878.373
0.99165	1.00192	229.3544	226.7636	-1.03485	0.82635	0.96633	219.569	212.405
0.99446	1.00652	33.27488	54.87718	1	1	1	19.00803	32.15546
0.77693	0.93718	140.047	131.8843	1.00244	0.99531	1.00244	114.6913	113.2739
0.37614	1.07504	4925.677	5260.662	1.02666	0.66588	1.02666	5315.812	5476.356
5.07E-16	0.60099	26143.03	15709.61	-1.45583	2.56E-11	0.68689	18834.09	12927.88
0.7918	0.97402	2689.834	2653.628	1.53692	3.37E-14	1.53692	2370.108	3645.439
0.00022	0.68733	1926.483	1320.06	1.70391	1.32E-08	1.70391	1613.686	2754.833
0.10273	0.71289	346.1275	240.9532	1.41332	0.00331	1.41332	243.9724	344.9539
0.55841	1.06198	281.6385	299.1958	1.09155	0.37163	1.09155	322.7484	352.24
0.8546	1.09776	72.473	76.94404	1.16533	0.75869	1.16533	64.965	76.14253
0.72686	1.01675	1994.581	2029.445	1.49532	1.80E-18	1.49532	1891.374	2827.876
0.21868	1.08735	1128.753	1224.474	-1.06045	0.24532	0.94299	1267.609	1195.836
0.17275	0.91016	2134.05	1955.148	1.13763	0.09763	1.13763	1841.414	2087.589
0.4389	1.07811	889.057	963.0678	1.00901	0.94378	1.00901	779.8948	781.5762
2.61E-08	0.62208	2648.45	1642.529	1.05104	0.35655	1.05104	1871.161	1969.308
0.77114	1.01936	575.8751	587.3157	1.05173	0.55497	1.05173	516.0917	542.2162

0.79683	0.95846	281.4392	273.7078	-1.52709	0.03754	0.65484	250.5919	163.0535
0.46192	1.06697	763.8947	810.8936	-1.00335	0.96521	0.99666	725.1874	723.8658
0.53562	1.02435	719.6285	738.0891	-1.04292	0.41361	0.95885	816.1885	781.3315
0.84306	0.97958	1152.967	1125.443	1.08451	0.41178	1.08451	923.1054	1006.386
0.52411	1.05925	1221.114	1288.865	1.00249	0.96525	1.00249	1279.296	1283.244
0.87511	1.00985	1731.572	1742.55	-1.05298	0.32849	0.94969	1972.071	1874.349
0.34323	1.06866	881.6724	940.998	-1.02182	0.79407	0.97865	760.4791	746.0413
0.77584	0.96754	378.7487	368.6671	-1.1608	0.27729	0.86147	250.4022	215.6515
0.01802	0.89622	1420.951	1273.473	1.225	0.00058	1.225	1200.023	1468.116
2.82E-07	0.70564	4282.721	3029.298	1.10641	0.29723	1.10641	3842.512	4243.16
0.35843	0.93002	6566.075	6087.239	1.40171	5.14E-07	1.40171	6291.156	8807.52
0.43241	0.85728	1263.371	1103.828	-1.8228	0.00012	0.54861	683.6943	379.1613
0.40035	1.04486	2635.448	2747.809	-1.05837	0.3522	0.94485	2941.474	2775.203
0.96432	0.99788	2098.229	2093.901	1.14293	0.02293	1.14293	1930.012	2205.959
0.99667	1.0003	471.7597	471.8434	1.05927	0.46469	1.05927	480.1061	508.7394
0.84276	1.01004	1894.445	1916.11	-1.09087	0.17425	0.9167	2143.076	1959.308
0.68828	0.96102	544.0449	525.664	1.32822	0.00411	1.32822	545.3167	722.4183
0.29513	1.17889	230.4283	272.9471	1.2325	0.02505	1.2325	441.2563	542.6402
0.76358	0.98367	995.7545	980.4951	-1.09803	0.34839	0.91072	1076.743	978.9857
0.94311	0.98592	261.1467	262.6207	1.29573	0.31485	1.29573	256.2203	327.7511
0.96629	0.97754	70.6666	71.61833	1.64987	0.29396	1.64987	56.81944	93.1429
0.60159	1.06503	639.5141	674.7779	1.12307	0.1161	1.12307	599.6124	674.1415
0.01687	0.8378	8842.92	7420.842	1.31897	0.00007	1.31897	7753.505	10236.43
0.95125	1.00694	477.9299	477.4712	1.18637	0.09306	1.18637	428.0869	509.3973
0.15617	0.88503	5057.524	4516.57	1.22904	0.00109	1.22904	5244.055	6418.526
0.10006	0.67692	283.0067	186.8556	1.03237	0.89851	1.03237	192.7439	199.9811
0.64788	0.87794	196.9339	181.5633	-1.39431	0.4877	0.7172	173.3824	118.4986
0.85814	0.98524	1649.89	1618.838	1.12447	0.21829	1.12447	2574.65	2877.871
0.02566	0.85017	2673.067	2273.441	1.11984	0.05837	1.11984	2182.655	2441.358
0.09703	0.869	3627.374	3146.183	1.52964	8.87E-07	1.52964	3107.395	4770.909
0.89528	0.99083	18599.23	18418.7	-1.01252	0.78703	0.98763	19177.63	18951.73
0.83406	0.96139	337.3665	328.4931	-1.0181	0.90157	0.98222	304.6155	300.5925
0.65992	0.97683	6995.6	6833.521	1.17177	0.00109	1.17177	6473.211	7581.077
0.63877	0.78766	98.37373	75.31763	1.03182	0.92331	1.03182	146.2003	151.3675
0.69578	0.97364	8801.963	8638.035	-1.08679	0.25787	0.92014	8542.807	7801.193
0.1155	1.13243	1714.203	1936.685	1.18059	0.0031	1.18059	1818.634	2150.864
0.93189	1.01892	234.3978	233.0512	1.06421	0.74996	1.06421	195.0268	207.925
0.92053	0.98572	356.6039	350.0902	1.0713	0.65928	1.0713	323.2928	349.5517
0.50601	0.82328	106.1205	87.21709	-1.27497	0.70167	0.78433	90.5913	70.6326
0.00068	0.85187	4153.436	3536.164	1.10826	0.0409	1.10826	3907.273	4327.807
0.34039	1.05091	6940.073	7291.029	1.16793	0.11072	1.16793	6921.756	8090.394
0.00097	0.68487	5517.983	3792.602	1.24191	0.00795	1.24191	5906.009	7330.463
0.258	0.82461	328.7608	276.5968	-1.10423	0.55845	0.90561	376.3629	337.0576
0.8207	0.97547	1947.502	1919.489	-1.41578	5.66E-06	0.70632	1802.44	1269.675
0.06119	1.15572	7205.258	8238.771	-2.15509	1.30E-18	0.46402	14371.54	6580.232
0.20542	1.07852	4002.106	4310.849	-1.32751	0.00895	0.75329	4322.061	3239.979
0.56985	1.03612	2180.108	2262.094	1.55441	1.61E-08	1.55441	1909.059	2970.431
0.68153	0.97777	3030.875	2969.348	-1.01091	0.85386	0.98921	2910.689	2876.251
0.00864	1.17149	2353.832	2761.763	1.05968	0.45748	1.05968	2872.117	3040.178
0.92733	1.00583	2212.749	2216.205	1.07702	0.20475	1.07702	2234.001	2413.047
0.45546	0.95583	893.3803	855.0725	-1.17811	0.07859	0.84882	967.0064	817.8272
0.00162	1.22356	3156.614	3876.747	1.63391	8.15E-11	1.63391	2770.482	4542.026

5.04E-06	0.7928	3681.102	2919.908	2.80269	0	2.80269	3343.438	9383.9
0.06078	1.14166	2514.891	2857.647	-1.04309	0.33584	0.95869	3033.542	2909.272
0.4134	1.10013	722.4056	788.6054	2.0266	2.65E-06	2.0266	716.8025	1452.675
0.43165	0.93442	1148.386	1073.933	1.03868	0.64258	1.03868	1084.974	1127.187
0.65865	1.02274	1804.783	1846.701	3.42952	0	3.42952	1760.132	6029.415
0.2679	1.14074	700.6779	803.6508	-1.85682	6.06E-22	0.53856	1238.442	666.1204
0.17309	1.09177	2697.011	2939.349	-1.02124	0.70669	0.97921	3019.198	2964.003
0.30269	0.91014	51862.79	47328.73	-1.54454	6.70E-06	0.64744	65881.29	42151.81
0.00185	0.57916	11275.1	6388.083	-1.4978	0.00202	0.66765	8987.119	5945.867
0.27976	1.05801	2750.006	2906.136	-1.13443	0.01067	0.8815	3047.967	2684.354
0.63997	0.95332	903.752	855.2789	1.0619	0.41571	1.0619	874.9871	930.5506
0.77836	1.03742	352.3095	362.1155	1.03707	0.75902	1.03707	331.5132	344.6249
0.69941	1.02455	747.6658	764.8784	-1.02206	0.73946	0.97842	789.7368	772.2627
0.00514	0.77073	1247.872	955.4139	1.29753	0.00003	1.29753	1002.488	1302.816
0.56388	1.10633	197.6868	217.186	-1.08304	0.71542	0.92332	191.9823	178.4586
0.24017	0.91971	2511.515	2326.991	-1.08962	0.30023	0.91775	2427.492	2228.147
0.97212	1.01576	62.96413	64.21047	-1.36998	0.76602	0.72994	42.38191	30.37371
0.3802	0.91541	7683.449	7040.411	1.04158	0.66475	1.04158	7306.945	7589.89
0.77807	1.1156	129.282	135.8926	1.9709	0.00031	1.9709	126.2517	248.6748
0.34371	1.08026	434.068	469.1704	-1.36949	0.00344	0.7302	413.6206	301.5602
0.98701	1.00074	3171.022	3175.543	-1.04292	0.49529	0.95885	3217.88	3079.757
0.03263	0.89164	1427.137	1273.066	1.32913	1.66E-08	1.32913	1299.882	1727.671
0.46578	1.10399	299.5067	328.1126	1.50132	0.00014	1.50132	281.0397	422.1998
0.46002	1.04515	4059.369	4239.878	1.19738	0.00016	1.19738	3894.688	4661.966
0.08949	1.21915	423.5143	512.8868	1.92572	5.10E-17	1.92572	497.1047	958.5007
0.30451	0.88996	702.035	629.3928	-1.39053	0.03877	0.71915	531.6193	385.4409
0.52997	1.12949	355.1098	410.657	-1.08902	0.50833	0.91825	623.6176	567.9481
0.60143	1.03769	470.4195	488.1785	-1.15978	0.14225	0.86223	512.7477	441.1328
0.33406	1.05006	1731.513	1821.038	-1.03156	0.60645	0.9694	1767.995	1715.003
0.81946	1.0547	10469.63	11020.86	-2.98215	1.54E-12	0.33533	12038.54	4007.76
0.97668	0.96755	34.80772	35.34461	1.15804	0.73911	1.15804	71.33653	82.62178
0.49071	1.15503	155.7571	178.4363	1.77796	0.01146	1.77796	142.9973	257.2107
0.17904	0.88356	4345.902	3845.59	1.25398	6.10E-06	1.25398	3743.427	4700.587
0.38376	1.14251	270.8919	306.1733	1.10508	0.4968	1.10508	249.5432	275.7376
0.00003	0.81584	1984.168	1618.555	1.1103	0.04468	1.1103	1785.258	1982.707
0.42033	0.82868	2006.235	1681.701	-2.42206	1.91E-43	0.41287	1631.628	673.7202
0.08984	0.88568	15499.37	13714.64	1.05136	0.50216	1.05136	16922.6	17762.47
0.72758	0.97355	1203.959	1168.963	-1.10683	0.13966	0.90348	1151.021	1041.204
0.69077	0.96172	499.2784	482.5419	1.47669	0.00014	1.47669	436.8503	642.6111
0.05912	1.20496	3611.198	4325.646	1.92305	0.00008	1.92305	3352.477	6593.996
0.18265	1.06765	1176.749	1256.016	-1.27691	0.00004	0.78314	1160.544	908.1337
0.04241	0.84721	959.2531	809.8925	-1.16397	0.03573	0.85913	786.7426	676.9585
0.98483	0.99845	1879.724	1868.585	1.63317	5.98E-07	1.63317	2241.714	3683.384
0.40463	0.93627	865.174	813.8134	-1.04529	0.47182	0.95668	704.4596	673.9252
0.91315	0.98111	199.2574	195.1053	-2.05111	0.20519	0.48754	144.7665	67.98559
0.48817	1.05918	3519.793	3697.051	-1.13524	0.00327	0.88087	6282.042	5536.049
0.92741	1.00575	2751.643	2761.266	-1.00719	0.89004	0.99286	2610.026	2590.241
0.24536	0.87655	380.3265	333.1574	-1.08632	0.39173	0.92054	444.4567	408.866
0.29139	0.87164	1587.306	1397.542	-1.2523	0.01016	0.79853	1073.229	857.2821
0.05063	0.82697	1722.906	1418.938	1.5196	1.23E-08	1.5196	1336.699	2034.656
0.67586	1.07919	499.2955	551.5232	-3.08733	7.03E-14	0.3239	632.9921	205.0663
0.69226	0.9726	1195.55	1165.023	-1.5737	3.85E-07	0.63545	1162.592	737.0433

5.45E-12	0.7055	3098.061	2185.724	1.00699	0.9041	1.00699	2592.686	2614.014
0.12314	0.82259	1053.221	859.2231	1.24716	0.00341	1.24716	849.6893	1062.412
0.97538	1.00155	2081.251	2082.255	1.46425	3.19E-06	1.46425	2031.185	2961.573
0.30747	0.88279	1121.347	982.2011	1.2198	0.02083	1.2198	943.5275	1155.294
0.12975	1.09464	3502.542	3832.58	-1.26046	0.00094	0.79336	3055.643	2419.057
0.22356	0.92467	845.0961	781.3931	-1.04038	0.53363	0.96119	1150.303	1106.386
0.41533	1.0825	6043.032	6521.267	1.08039	0.31283	1.08039	6177.378	6693.541
0.29789	1.13798	970.4545	1109.264	1.5502	0.00003	1.5502	1060.704	1656.712
0.10113	1.28863	161.9806	208.7462	1.3814	0.04173	1.3814	177.6429	245.3351
1	1	17.21833	23.86953	1	1	1	17.75973	33.23893
0.5669	0.95904	487.8989	467.5767	-1.12501	0.17757	0.88888	486.9427	432.3109
0.60507	1.03891	723.9565	751.5245	1.00752	0.90989	1.00752	1153.186	1161.501
0.21739	0.88041	457.4089	401.6381	-1.15566	0.11815	0.86531	444.2535	384.3417
0.12362	0.8896	1420.032	1259.162	1.30236	0.00024	1.30236	1413.228	1843.608
0.87584	1.03038	191.3212	197.0101	1.10014	0.65019	1.10014	157.3419	172.8778
0.00048	0.8149	1591.123	1297.807	1.00191	0.98068	1.00191	1344.058	1345.725
0.00048	0.8143	9809.302	7960.816	-1.36356	0.00745	0.73338	8655.989	6348.102
0.91463	0.98812	2104.806	2086.061	1.26829	0.02249	1.26829	1905.628	2419.779
0.85934	0.88588	47.11212	41.79213	-1.22303	0.85451	0.81764	34.37902	32.40248
0.45742	1.06365	2178.777	2339.459	-1.39244	1.12E-10	0.71816	3336.057	2396.828
0.88725	1.04101	148.0537	152.7485	1.10484	0.71216	1.10484	148.023	161.6049
0.502	0.95234	1184.692	1134.717	-1.04463	0.61818	0.95728	1065.232	1018.162
0.46583	1.09137	1933.518	2110.187	1.0095	0.82149	1.0095	4415.65	4457.436
0.78525	1.04371	692.6715	714.4939	1.87248	1.51E-09	1.87248	750.7272	1410.971
0.00859	0.78181	4775.71	3701.002	-1.33444	3.27E-07	0.74938	4040.647	3028.834
0.43772	1.08707	692.668	758.7204	1.34878	0.00018	1.34878	671.9224	904.4799
0.64493	0.9612	1259.291	1214.613	-1.10223	0.25614	0.90725	1188.416	1075.234
0.05124	1.11916	1128.715	1266.459	1.13102	0.11921	1.13102	1128.26	1270.882
0.40448	0.82785	349.4694	297.5655	-1.43193	0.12068	0.69836	226.1926	159.9215
0.12375	1.11275	1735.375	1926.875	-1.05481	0.29663	0.94804	1793.885	1702.552
0.41682	1.04117	1152.775	1199.512	-1.12897	0.015	0.88576	1165.339	1032.207
0.15832	0.84627	332.0396	280.1956	-1.02613	0.84037	0.97454	280.8659	274.1236
0.38441	1.03703	4029.563	4177.774	1.02284	0.67613	1.02284	4523.057	4620.692
0.5874	0.92319	492.4025	448.8617	-1.03003	0.85362	0.97085	462.9835	454.8084
0.22142	1.18281	945.9088	1118.83	-1.37489	3.65E-06	0.72733	2145.821	1552.818
0.16205	1.10472	489.6027	540.5474	-1.02409	0.80799	0.97647	481.3634	469.0132
0.68067	0.9308	189.1612	176.7475	1.06342	0.77221	1.06342	164.5271	174.728
0.98888	1.00224	334.0997	330.8603	-1.01474	0.91533	0.98547	354.3485	349.8388
0.85376	1.01133	1169.905	1186.599	-1.06025	0.3638	0.94317	1132.704	1069.091
0.72575	1.02083	5592.31	5694.562	1.14071	0.01608	1.14071	5685.615	6481.621
0.40848	0.87906	284.9337	248.1544	3.37135	1.36E-30	3.37135	267.2213	903.4907
0.64787	1.02383	2926.666	3004.07	-1.07991	0.10367	0.926	2920.82	2704.495
0.00001	0.80237	8356.653	6726.819	1.37224	0.01823	1.37224	7655.033	10489.39
0.94777	0.98898	161.3102	159.4863	1.04994	0.7807	1.04994	185.9211	194.9558
0.0182	1.18895	512.064	609.31	2.26697	9.77E-21	2.26697	446.2825	1013.962
0.59595	1.07086	385.6845	410.2985	1.09747	0.39479	1.09747	363.3364	398.6802
0.42699	0.85594	184.6811	158.8024	-1.21868	0.474	0.82056	160.047	131.5062
0.00002	0.81611	10524.22	8590.407	1.63759	2.34E-14	1.63759	8565.475	14041.15
0.54265	1.0394	830.241	864.5273	-1.08009	0.41378	0.92585	928.2186	855.7782
0.68067	0.93823	261.2127	243.0952	-1.26942	0.18215	0.78776	234.6279	185.5259
0.02015	1.34201	3811.825	5111.066	-1.68316	0.00084	0.59412	8899.439	5181.491
0.00499	0.75675	3669.728	2757.314	1.07321	0.08844	1.07321	3024.498	3245.835

0.84853	0.97701	733.7425	723.0701	1.17443	0.33114	1.17443	661.9802	770.125
0.72568	1.03926	651.4157	682.3469	1.0339	0.6781	1.0339	660.6941	681.6755
0.46346	1.05205	1256.717	1319.132	-1.04354	0.47571	0.95828	1100.676	1055.987
0.39328	0.91401	1923.294	1772.99	-1.79321	2.14E-07	0.55766	1791.956	991.1245
0.00019	0.52917	758.0549	392.1084	-1.21022	0.11008	0.82629	494.8903	408.1663
0.45485	1.12443	385.9183	426.1032	1.45251	0.00223	1.45251	329.8875	477.9097
0.59489	1.15956	215.9391	234.9192	-1.00833	0.96433	0.99174	255.166	256.0136
0.33992	0.92129	2031.314	1857.141	1.07042	0.29105	1.07042	1565.961	1680.836
0.09376	0.79403	437.9235	343.5987	-1.04269	0.78669	0.95906	343.3375	326.2364
0.75667	1.30231	31.24187	40.17233	-1.3698	0.74549	0.73003	46.65015	33.53107
0.63473	1.05536	455.861	483.571	-1.02455	0.76895	0.97604	658.22	641.5255
0.91474	1.009	1419.232	1436.065	-1.21285	0.00333	0.8245	1720.973	1415.186
0.94389	1.00862	8508.163	8683.712	1.36872	0.00113	1.36872	7489.791	10287.87
0.95029	0.98383	117.0253	115.2182	1.14417	0.73762	1.14417	116.1792	127.9422
0.59818	0.89255	575.6951	524.9501	-2.42526	2.40E-06	0.41233	344.4619	143.0685
0.80572	1.01729	909.1444	923.4196	1.67719	4.07E-17	1.67719	805.2188	1349.831
0.18884	1.13466	1360.011	1549.229	-1.98387	3.76E-30	0.50407	1439.877	725.8322
0.87285	0.98605	1640.538	1623.032	-1.35342	2.53E-08	0.73887	1403.808	1037.311
0.78016	1.07701	115.498	125.117	1.05949	0.86314	1.05949	99.42693	105.1035
0.89144	0.96483	125.071	121.1565	-1.05197	0.90878	0.95059	112.9173	103.4519
0.02716	1.12871	1743.815	1961.599	1.25069	0.00052	1.25069	1655.864	2075.178
0.54165	0.91771	990.0704	908.6009	-1.22126	0.01361	0.81883	931.0804	760.7695
0.07601	1.07877	2717.76	2931.18	1.07848	0.07603	1.07848	3164.841	3413.327
0.0035	0.7385	16980.83	12533.49	-1.25984	0.00505	0.79375	14497.02	11529.96
0.06076	1.2149	578.2374	706.7447	-1.7052	0.00266	0.58644	1021.475	584.7518
0.0596	0.6653	6565.326	4240.495	1.21302	0.26168	1.21302	4827.679	5991.349
0.49847	1.03638	2725.485	2828.617	-1.13974	0.03615	0.87739	2830.292	2474.678
0.17213	1.1226	1963.512	2189.972	1.02527	0.60475	1.02527	2230.117	2285.034
0.91602	0.94446	56.75541	54.1552	-1.14161	0.73813	0.87596	98.21846	85.95624
0.95955	0.99237	311.8979	311.5627	-1.19186	0.28872	0.83903	332.7694	276.0346
0.29277	1.07596	3892.367	4160.527	-1.15013	0.06521	0.86947	3405.302	2954.819
0.00679	1.28187	19771.07	25354.69	-1.42062	0.0001	0.70392	21571.66	15140.46
0.26152	0.90728	26675.79	24285.95	1.36665	4.69E-07	1.36665	27696.97	37869.23
0.00022	0.59342	9282.163	5448.634	-1.42429	0.00044	0.70211	7349.173	5142.471
0.9546	0.98176	155.2817	146.0167	2.18531	5.97E-06	2.18531	146.3218	320.6039
0.29332	0.89603	3853.461	3467.81	1.1215	0.16801	1.1215	3535.708	3963.074
0.00002	0.60305	5208.463	3137.081	1.10681	0.21972	1.10681	4204	4644.648
0.29468	0.90129	889.4613	797.5029	-1.17995	0.14135	0.84749	758.7978	646.3953
0.73039	1.06658	243.659	255.1195	2.67953	1.33E-07	2.67953	202.558	551.2781
2.52E-13	0.552	1907.92	1048.969	-1.52291	2.18E-07	0.65664	1352.836	884.7415
0.83474	1.15782	55.52452	62.11528	1.25459	0.44301	1.25459	98.64778	123.795
0.38205	1.11443	938.4865	1039.43	1.96339	0.00148	1.96339	686.253	1401.13
8.78E-06	0.66191	1125.71	742.2987	-1.6405	2.60E-08	0.60957	896.0648	547.4693
0.09493	0.84761	1909.228	1618.978	2.6611	2.70E-43	2.6611	1869.654	4983.313
0.77114	0.95733	3862.695	3821.662	-1.30363	0.00118	0.76709	3450.938	2630.328
0.45659	0.94534	18581.88	17697.71	-1.07501	0.07487	0.93022	20245.55	18832.48
0.79492	0.95575	329.3311	311.0057	1.08024	0.58791	1.08024	333.7488	362.4706
0.90666	1.00769	701.8521	708.3375	-1.17086	0.07996	0.85407	1334.213	1143.297
0.94376	1.00339	3551.189	3559.662	-1.00184	0.9664	0.99816	3604.582	3597.971
0.34618	0.83722	1449.905	1207.379	-1.81229	2.87E-06	0.55179	948.5017	525.129
0.71404	1.05759	702.4127	752.9813	-1.42752	0.00018	0.70052	628.8198	439.2474
0.44256	0.94792	721.4285	685.0571	1.33054	0.00439	1.33054	544.6212	727.878

0.88263	0.92732	71.53014	66.10828	-1.17656	0.77118	0.84993	67.44937	57.04721
0.00351	1.34056	2958.025	3947.02	3.42507	3.44E-11	3.42507	2651.395	9525.188
0.12941	1.10143	957.73	1053.86	1.17218	0.03095	1.17218	893.7402	1045.907
0.18379	1.07427	943.7894	1014.508	-1.02693	0.75359	0.97377	997.3634	968.2233
0.74257	1.01467	5784.203	5872.516	-1.0664	0.31783	0.93774	6186.615	5778.712
0.95803	1.00427	1398.676	1400.308	-1.05538	0.37678	0.94752	1357.047	1288.279
0.83512	0.90814	134.0868	131.1086	-2.3194	0.34486	0.43115	72.57619	31.73951
0.02775	0.67457	526.4266	347.0917	-1.12014	0.55503	0.89275	363.385	323.239
0.08306	1.23248	424.769	528.802	2.72476	2.02E-15	2.72476	350.2329	950.9798
0.64215	0.9187	470.8836	439.1011	-1.72611	0.07457	0.57934	322.6378	190.8382
0.90417	1.0604	66.75254	71.31951	-1.12831	0.81443	0.88628	88.85034	80.59438
0.0001	0.62126	2780.679	1714.231	-2.40987	0	0.41496	2319.86	962.0753
2.11E-06	0.65206	6757.255	4387.109	-1.39482	0.00005	0.71694	5774.322	4120.067
0.5146	0.95246	1020.911	971.0924	-1.11789	0.12593	0.89454	1535.594	1368.907
0.11422	0.85363	1849.483	1566.207	-1.16527	0.10425	0.85817	1709.083	1470.904
0.12658	0.87121	721.9728	626.0315	1.7699	3.89E-09	1.7699	563.9076	1002.833
0.27128	0.82501	430.7882	347.3543	1.32332	0.03344	1.32332	356.1011	474.4409
0.80276	0.98514	1138.78	1120.297	1.25039	0.00049	1.25039	963.6593	1203.297
0.58148	0.90021	297.2688	262.7617	1.51981	0.0024	1.51981	303.4096	464.9191
0.1222	1.13888	609.5508	696.1415	1.951	6.39E-10	1.951	570.2113	1111.095
0.84144	1.01163	1233.269	1247.037	-1.07456	0.27656	0.93061	937.8502	871.8944
0.12953	1.14485	715.988	815.6228	1.42335	0.01423	1.42335	599.2497	863.4294
1	1	18.11156	23.32669	1	1	1	17.96387	31.4035
0.39391	0.86825	608.0927	518.1613	1.05995	0.72775	1.05995	445.9306	477.1212
0.16848	0.89169	7916.818	7069.073	1.33182	8.59E-07	1.33182	6590.868	8782.645
0.95117	1.0222	86.43907	87.60851	1.11733	0.80316	1.11733	86.68036	96.39537
0.86748	0.98183	3583.459	3505.911	1.23327	0.03284	1.23327	3257.159	4042.835
0.73387	1.02285	1271.831	1295.621	1.05256	0.40823	1.05256	1366.002	1438.362
0.92702	1.00587	2711.319	2729.384	-1.19747	0.00603	0.8351	2692.676	2251.147
0.49995	1.03328	1334.481	1379.644	1.01685	0.74827	1.01685	1443.156	1467.809
0.0049	0.80792	4133.303	3352.585	1.10772	0.05605	1.10772	3548.074	3931.237
0.08479	1.10496	735.2054	812.5988	1.30349	0.00048	1.30349	616.8073	802.9202
0.00003	0.69374	2868.295	1989.011	-1.10624	0.34318	0.90396	2912.101	2624.788
0.81456	1.04588	168.6285	177.3508	-1.03418	0.87165	0.96695	164.1745	158.7947
0.20739	0.907	13790.06	12531.4	1.09639	0.114	1.09639	12446.05	13632.55
0.4173	1.04058	6037.296	6282.343	-1.04171	0.45533	0.95996	5310.595	5109.434
0.00161	0.75265	6098.957	4590.95	-1.15799	0.08098	0.86356	5055.032	4369.396
0.03617	1.10334	3170.944	3498.8	-1.11501	0.06466	0.89686	3526.963	3152.867
0.65884	0.96373	28577.74	27483.36	1.64792	0.00001	1.64792	29264.65	49022.08
0.77691	1.0177	3042.763	3087.185	1.15722	0.00064	1.15722	3385.028	3917.149
0.57734	1.08041	638.9877	698.1588	-1.30667	0.07035	0.7653	940.1383	712.1007
0.93525	0.97556	154.1463	157.6907	-1.09021	0.73024	0.91725	164.7198	152.3563
0.00226	1.25189	37945.41	47319.36	-1.44839	0.00192	0.69042	48207.53	32903.63
0.19433	1.06083	3079.959	3269.116	1.27707	8.00E-06	1.27707	2861.588	3654.603
0.36523	1.08003	2715.708	2930.389	1.04166	0.52747	1.04166	2305.225	2413.237
1.43E-12	0.61802	4850.715	2992.702	-1.15108	0.15065	0.86875	3827.112	3320.111
0.30372	1.07744	5201.511	5608.373	-1.06676	0.20448	0.93742	5449.565	5115.004
0.20811	1.12362	540.5041	604.4873	1.26468	0.00072	1.26468	510.1699	645.2973
0.00005	0.82521	1664.77	1374.061	-1.09201	0.32148	0.91574	1600.118	1465.538
0.49189	0.80793	443.846	380.6996	-3.47298	1.66E-06	0.28794	379.4922	107.9241
0.60256	0.97381	2359.189	2298.234	-1.63317	9.24E-18	0.61231	2587.896	1588.099
0.83747	0.85694	57.94959	48.31473	1.1503	0.89107	1.1503	38.03229	47.05796

0.4601	1.0589	678.963	716.5375	1.11504	0.09077	1.11504	635.0463	708.447
0.12783	0.93532	12277.82	11480.27	1.1023	0.14784	1.1023	11110.29	12254.98
0.32006	0.84664	726.5667	604.2733	1.14503	0.17321	1.14503	709.9443	815.8373
0.97918	0.98195	47.52043	46.69633	1	1	1	30.76921	32.41956
0.9262	0.99124	994.5779	983.7164	1.15336	0.00528	1.15336	947.0341	1092.272
0.01916	1.22494	1396.499	1695.877	-1.65826	4.91E-06	0.60304	2321.321	1383.433
0.35203	1.1421	882.7492	1028.735	1.28472	0.11559	1.28472	849.2184	1091.95
0.59335	0.85186	149.5662	124.5802	8.72754	0	8.72754	129.8517	1135.363
0.48343	1.05361	745.4536	782.8573	1.08111	0.21838	1.08111	646.8915	699.6333
0.7259	0.92129	327.0201	310.53	-1.4291	0.03526	0.69974	256.1996	178.9814
0.54544	1.04042	776.3289	806.1752	1.10678	0.09185	1.10678	685.6102	758.6398
0.02327	0.78309	18262.67	14435.97	-1.16807	0.03363	0.85612	16976.27	14544.79
0.09304	1.15417	2240.278	2603.795	-1.11288	0.19549	0.89857	2971.959	2664.272
0.00015	0.66319	717.4301	472.1563	1.31605	0.00003	1.31605	572.9352	754.3945
0.25225	1.05281	2021.187	2129.223	1.03859	0.39716	1.03859	2187.195	2272.2
0.75906	0.95558	897.6937	849.8269	1.52557	5.71E-06	1.52557	817.0235	1253.098
0.03188	0.81258	5672.106	4596.948	1.25846	0.04344	1.25846	5552.821	7010.406
0.00002	0.79145	2038.472	1610.794	1.22544	0.16075	1.22544	1766.645	2143.452
0.72195	0.91469	240.6148	230.0157	-1.64582	0.12181	0.6076	174.9853	108.4682
0.46751	1.05155	560.1491	589.5111	1.17092	0.08449	1.17092	538.9067	632.689
0.01533	1.11762	1621.447	1812.563	-1.13761	0.08468	0.87903	1589.362	1400.785
0.89677	0.98128	510.2271	505.7258	1.13943	0.38291	1.13943	331.5095	373.9615
0.74019	0.94166	1268.398	1204.023	-2.38995	6.66E-21	0.41842	1145.058	477.941
0.9805	0.99608	193.84	193.6367	-1.12634	0.5169	0.88784	203.8831	181.4855
0.63946	0.96387	876.5663	842.3787	1.11518	0.08085	1.11518	813.6082	907.6327
0.32458	0.94752	1542.806	1461.332	1.14532	0.00921	1.14532	1277.379	1462.387
0.73213	1.04475	276.5303	287.656	-1.00988	0.9507	0.99021	247.8198	246.3002
0.78636	0.97152	537.8956	519.8842	-1.01815	0.8421	0.98217	520.252	511.491
0.87492	1.06061	74.49319	79.17738	1.00501	0.99086	1.00501	70.9909	71.22446
0.31709	1.06805	2585.335	2777.956	-1.04882	0.466	0.95345	2430.457	2326.461
0.02569	0.72332	1114.28	794.5324	-1.4118	0.00529	0.70832	787.0112	560.3325
0.67802	0.96084	4073.313	3892.685	1.07327	0.38902	1.07327	4151.104	4464.017
0.60827	0.96019	2346.446	2269.05	-1.26021	0.00428	0.79352	2497.291	1981.195
0.34848	0.94623	5879.638	5563.85	-1.05785	0.18848	0.94532	5442.221	5144.242
0.015	1.2534	27153.69	34022.67	-2.06219	6.31E-12	0.48492	37252.66	17694.18
0.18094	1.24259	344.0398	419.2078	1.45087	0.00002	1.45087	328.1277	476.1155
0.18283	1.12936	417.7377	472.2065	1.073	0.27246	1.073	952.5449	1021.34
6.25E-18	0.68439	2646.326	1811.118	-1.21152	0.00003	0.82541	2202.845	1817.974
0.01219	0.84674	1320.2	1120.219	1.05909	0.2962	1.05909	1482.766	1570.818
0.8963	0.98647	9673.019	9516.621	1.05621	0.68615	1.05621	9337.682	9899.947
0.76295	1.01701	3740.417	3815.415	-1.07199	0.24227	0.93284	3733.362	3483.907
0.54879	1.05384	2073.979	2190.02	1.42398	3.38E-08	1.42398	1910.107	2724.261
0.09763	1.12146	1105.121	1233.543	1.02677	0.72443	1.02677	1129.716	1163.772
0.30157	1.04875	2220.177	2330.464	-1.04664	0.37833	0.95544	2502.585	2389.856
0.29817	1.19658	257.6166	303.6907	1.21679	0.13766	1.21679	254.9162	310.6965
0.69304	0.94521	223.7423	211.8606	-1.16577	0.40426	0.8578	228.6729	196.6533
0.04551	1.12131	5392.536	6047.719	-1.05793	0.27058	0.94524	6325.316	5958.953
0.51955	1.15213	183.9111	216.3442	1.61466	0.05391	1.61466	164.326	268.4389
0.21239	0.75064	164.0579	122.4576	1.01137	0.97643	1.01137	120.726	121.2913
0.13707	0.93774	3271.929	3067.79	-1.19053	0.04073	0.83996	2899.926	2433.575
0.70897	0.93232	180.6249	168.0507	-1.17739	0.52668	0.84934	151.8847	128.8949
6.39E-06	0.74304	968.9296	720.6639	-1.3503	0.00928	0.74058	842.8019	627.1614

9.84E-06	0.61373	23875.16	14669.84	-1.95372	2.61E-16	0.51184	22302.75	11364.5
0.09788	0.87106	8511.172	7437.996	1.2955	8.95E-06	1.2955	7467.252	9686.246
0.86964	1.03312	217.5748	224.8819	-1.01079	0.95657	0.98932	198.1969	196.2528
0.31714	1.11662	4095.29	4602.942	3.75699	0	3.75699	3872.018	14582.17
0.21707	1.07839	1470.308	1579.36	-1.04485	0.47788	0.95708	1557.908	1495.925
0.85408	1.01738	712.2869	728.7109	1.19109	0.04118	1.19109	647.4795	772.8044
0.00006	0.68889	526.175	361.468	-1.02604	0.78358	0.97462	465.3803	452.6968
0.66566	1.04633	1284.837	1336.176	-1.23265	0.11451	0.81126	1297.172	1045.218
0.97622	1.00434	500.4023	508.6326	-1.16632	0.28501	0.8574	515.4744	438.0536
0.01206	0.71984	451.7976	321.8227	1.57098	1.19E-06	1.57098	345.966	544.2925
0.69477	0.95075	347.6609	333.0511	-1.01692	0.91715	0.98336	268.4261	265.1665
0.55623	0.95445	1869.92	1777.254	1.05705	0.24422	1.05705	1768.78	1870.34
0.97042	0.99375	285.4839	279.238	1.10989	0.33527	1.10989	367.251	406.6231
0.31213	0.90665	797.4281	717.8986	1.00901	0.90797	1.00901	725.1671	733.2358
0.29823	1.05213	5576.841	5874.407	-1.15651	0.01137	0.86467	6315.865	5446.498
0.89917	0.98973	1635.189	1649.191	-1.0939	0.06934	0.91416	1503.983	1374.274
0.94649	1.00673	1196.996	1205.203	3.22979	6.85E-35	3.22979	1111.251	3614.023
0.00884	0.76921	5927.175	4516.855	1.08876	0.36651	1.08876	6235.214	6843.709
0.00119	0.66546	462.5897	305.5631	-1.43123	0.00865	0.6987	356.862	250.2719
0.89674	0.99254	4253.221	4217.26	-1.18611	0.07666	0.84309	4910.938	4104.938
0.30254	1.27548	140.8952	177.4472	1.84687	0.00015	1.84687	144.8372	267.6945
2.99E-06	0.72012	3794.59	2731.958	-1.00956	0.89109	0.99053	3501.473	3456.963
0.91689	1.00686	1560.482	1566.808	4.44397	2.76E-34	4.44397	1394.995	6282.932
0.01772	0.80707	2018.561	1626.482	-1.48952	1.10E-06	0.67136	1869.012	1250.22
0.6047	0.971	2072.942	2006.262	-1.12362	0.02958	0.88998	2020.492	1796.976
0.16967	0.8413	659.7972	560.2802	-1.52507	0.00024	0.65571	608.0716	396.8823
0.00002	0.73029	18520.9	13531.49	-2.12945	1.30E-23	0.46961	17579.85	8211.176
0.61738	0.88403	148.665	130.9352	1.02703	0.91676	1.02703	135.5084	138.7618
0.87105	1.0105	1458.323	1477.906	-1.2586	0.01474	0.79453	1488.426	1179.234
0.13914	1.19807	489.6567	581.5287	1.2202	0.04711	1.2202	638.2914	782.3672
0.0441	1.11886	12927.45	14489.5	-1.21461	0.0226	0.82331	16105.06	13318.24
0.23862	1.09872	691.5281	757.0308	-1.06157	0.45001	0.942	773.5737	730.2014
0.00038	0.78608	2385.353	1871.573	-1.05344	0.26311	0.94927	1858.901	1764.819
0.90905	1.03738	105.3383	109.8876	1.14706	0.66601	1.14706	117.8656	135.4085
0.30868	1.48848	93.34999	142.3566	-2.40903	0.07728	0.41511	134.1561	56.23939
0.16238	1.09668	978.3051	1076.246	-1.00798	0.924	0.99208	1103.13	1092.14
0.06218	1.15785	7105.529	8244.012	-1.61482	0.00007	0.61927	10612.79	6448.861
0.79	1.01589	1067.954	1086.896	-1.18508	0.05875	0.84383	1049.808	887.9319
0.08116	1.10474	722.0669	797.1984	1.2689	0.0007	1.2689	708.6386	900.3713
0.08685	1.10139	8308.479	9151.424	-1.03398	0.5582	0.96713	8049.745	7803.089
0.05815	1.17255	1224	1434.275	1.61502	2.02E-09	1.61502	1172.084	1893.157
0.5776	1.03743	820.8618	852.9593	1.11937	0.16556	1.11937	757.8705	846.299
0.95941	0.98977	223.5374	224.059	-1.44559	0.23763	0.69176	134.9756	93.87885
0.93936	1.09694	20.56627	24.21005	1.287	0.82531	1.287	28.42126	44.49038
0.76594	1.02055	7113.531	7248.215	1.26916	1.39E-06	1.26916	7136.645	9061.836
0.04387	1.13163	13667.1	15537.68	-1.41377	0.00003	0.70733	15116.04	10651.88
0.10449	1.21752	893.1492	1087.715	1.74294	1.41E-24	1.74294	845.5187	1474.058
0.56825	1.06616	453.9609	480.8287	-1.00521	0.96675	0.99482	429.6761	428.5149
0.11578	1.09536	929.731	1019.631	-1.00321	0.95485	0.9968	1054.457	1050.494
0.00003	0.77838	9031.012	7036.037	1.02962	0.60819	1.02962	8356.705	8602.917
0.06499	1.10865	2695.032	2993.899	-1.15049	0.10362	0.86919	3196.946	2755.27
0.03806	0.74366	823.3353	604.9569	1.6373	3.31E-12	1.6373	685.4535	1124.575

0.11324	1.07816	3671.901	3964.122	1.08697	0.05355	1.08697	3656.373	3974.4
0.7844	1.01951	715.168	728.0866	1.52091	1.13E-11	1.52091	688.1129	1045.919
0.78592	1.26158	29.26418	37.24068	1.70888	0.48704	1.70888	37.48939	64.1525
0.48324	0.89258	683.4367	600.032	-1.56384	2.16E-07	0.63945	618.0415	395.6708
0.49949	0.91107	306.1341	277.0004	-1.13593	0.45446	0.88033	264.1732	231.2228
0.78606	0.97768	608.5422	593.5047	1.04524	0.40543	1.04524	992.4849	1037.782
0.85466	1.13018	39.66312	44.66526	5.26795	3.45E-10	5.26795	53.57817	282.8574
0.81419	1.31001	31.60863	43.12009	1.28518	0.80541	1.28518	34.91652	51.22852
0.04483	1.12127	2073.382	2331.469	1.25074	0.0005	1.25074	2262.94	2829.649
0.01982	1.19264	1299.493	1547.359	1.4402	1.70E-07	1.4402	1576.597	2278.66
0.37638	0.9601	2575.131	2475.56	-1.06158	0.39852	0.94199	2457.643	2297.64
0.84787	0.95172	310.5324	287.2894	1.36128	0.10914	1.36128	270.1025	371.3293
0.92341	0.99056	992.6187	981.0144	1.81931	3.06E-24	1.81931	855.6896	1555.737
0.57321	1.12181	273.128	296.9234	1.94944	0.00004	1.94944	216.2697	418.8317
0.02175	0.78125	1755.776	1373.323	1.0059	0.96518	1.0059	1504.469	1527.071
1	1	20.97867	26.45432	1	1	1	17.27155	30.48135
0.13664	0.87282	780.9126	677.9921	1.18677	0.03738	1.18677	683.9035	813.881
0.30587	0.8645	769.5089	671.2418	-1.66279	0.00774	0.6014	677.6062	407.5107
0.81118	1.0153	775.593	786.1445	-1.01347	0.85562	0.9867	855.7218	842.9562
0.52415	1.03275	7058.448	7338.074	-1.05183	0.34561	0.95072	8259.626	7836.44
0.68426	0.78828	80.43537	67.67226	1.15823	0.83458	1.15823	45.3346	51.97174
0.02477	0.88421	1081.03	955.9772	2.00235	1.18E-29	2.00235	892.5017	1786.445
0.31934	0.87591	1690.768	1506.341	-1.26522	0.00558	0.79038	1244.198	986.6252
0.11625	0.84116	11331.36	9540.395	1.20085	0.12519	1.20085	9333.228	10839.81
0.2985	1.06776	704.6481	752.9614	2.17495	1.30E-31	2.17495	699.18	1519.481
0.92744	1.00854	654.3688	657.5257	1.48279	1.54E-06	1.48279	802.1956	1189.551
0.32361	1.0697	544.8678	582.5659	-1.06064	0.54859	0.94283	575.3568	541.6398
0.02892	0.68899	1078.696	730.7682	-1.0925	0.54985	0.91533	748.3635	690.9688
0.31093	1.04916	1510.776	1586.186	-1.11473	0.10743	0.89708	1488.502	1339.513
0.68032	0.94233	289.4545	271.9256	-1.15226	0.46618	0.86786	300.622	257.3698
0.55942	0.8161	117.1044	93.82837	3.4443	0.00051	3.4443	69.02808	234.7165
0.70802	1.03264	1176.919	1216.845	-1.10106	0.16941	0.90821	1903.411	1730.901
0.6108	1.0293	3417.101	3508.645	1.10357	0.02665	1.10357	3521.223	3884.445
0.00012	0.70067	15525.33	10959.42	-1.05704	0.61273	0.94604	7929.881	7509.747
0.17527	1.14358	756.1265	863.2187	1.96307	2.32E-18	1.96307	832.7667	1636.667
0.06026	1.11919	4448.722	4991.272	-1.02025	0.77393	0.98015	5090.257	4984.982
0.68951	1.12044	101.3521	113.7516	-1.16401	0.60998	0.8591	124.6915	106.9435
0.664	0.84203	109.59	95.36958	-1.6477	0.4266	0.60691	63.68492	38.76617
0.65905	0.9732	742.0944	721.7233	1.06735	0.32487	1.06735	674.7058	719.8552
0.87029	0.98325	302.5966	297.6345	-1.04077	0.82536	0.96083	237.2636	226.4096
0.61441	1.02636	8049.733	8272.913	-1.12086	0.09527	0.89217	9111.674	8102.252
0.01325	1.15212	1331.55	1537.894	1.07045	0.27647	1.07045	1543.735	1650.444
0.43671	1.04417	6063.277	6341.098	-1.13471	0.01545	0.88128	7179.506	6333.149
0.06187	1.11713	1473.574	1654.391	-1.05606	0.28274	0.94692	3835.47	3624.223
0.91231	0.91887	42.5304	39.27509	1.13564	0.88471	1.13564	50.59983	63.16774
0.83438	0.94678	134.6113	127.1897	1.35381	0.25966	1.35381	122.49	167.0308
0.79524	1.01414	3559.78	3607.213	1.07988	0.27579	1.07988	3332.979	3592.228
0.99468	0.99941	873.1714	876.723	1.47819	0.00031	1.47819	617.9256	918.412
0.79498	0.94101	180.3419	172.8069	-1.70993	0.28299	0.58482	140.2823	79.90399
0.76491	1.04908	189.4497	198.1551	-1.07043	0.75712	0.9342	176.7083	164.9662
0.50131	1.05155	892.0741	937.6134	-1.11721	0.04051	0.89508	1857.686	1659.348
0.00098	0.65232	726.1017	467.9713	1.12688	0.19511	1.12688	503.5281	568.9292

0.563	0.93316	845.339	783.552	1.25036	0.00726	1.25036	741.6617	930.0079
0.61137	0.95315	576.2813	546.6392	1.18148	0.02219	1.18148	477.6129	564.3192
0.00908	0.83328	726.8538	606.4573	1.06945	0.31244	1.06945	595.04	636.391
0.90948	1.00593	1120.902	1128.501	-1.16988	0.00925	0.85479	1222.941	1044.016
0.39823	1.08716	331.2914	360.0628	-1.04245	0.72455	0.95928	318.4264	305.7842
0.9143	1.02665	170.5006	178.6694	1.07294	0.58283	1.07294	263.2021	282.1906
0.00455	0.83493	1166.625	971.8153	1.23371	0.00015	1.23371	984.0099	1213.243
0.43957	0.94229	31399	29768.79	-1.05498	0.47994	0.94789	27666.21	26202.66
0.53807	0.89812	503.0499	441.8511	-1.05176	0.6804	0.95078	493.6619	472.1296
0.31144	1.06554	6410.464	6860.857	-1.24109	0.00003	0.80575	6387.413	5143.799
0.34576	0.86526	228.0327	196.5804	6.09262	2.37E-34	6.09262	181.4909	1102.663
0.66256	1.07547	245.8405	261.7958	-1.10459	0.33496	0.90532	421.2521	381.7194
0.63404	1.04583	8856.721	9242.42	-1.3763	0.00024	0.72659	10144.62	7315.306
0.02186	0.85422	827.9232	706.0227	1.08224	0.1871	1.08224	791.3612	856.668
0.1197	1.07981	2432.171	2620.813	-1.19022	0.00027	0.84018	2873.016	2412.062
0.99313	1.00429	61.28833	61.19422	-1.1003	0.78217	0.90884	110.2363	100.505
0.00054	0.73538	3503.095	2586.262	-1.04106	0.51525	0.96056	2862.87	2758.327
0.72825	1.09757	195.7631	208.2796	-1.30765	0.38078	0.76473	133.9927	102.8933
0.6869	0.91779	464.4787	434.9053	-1.98535	2.67E-06	0.50369	444.3807	223.4497
0.24247	1.08586	749.9369	815.8486	-1.02975	0.62687	0.97111	717.4109	696.6962
0.153	0.86618	848.6074	739.8796	-1.09571	0.30086	0.91265	751.0169	683.4027
0.03983	0.84868	3975.024	3380.5	1.1511	0.03716	1.1511	3675.624	4229.416
0.30753	1.08527	415.0864	450.945	1.08927	0.53633	1.08927	438.1901	472.1653
0.31604	0.83843	446.808	365.801	1.47197	0.0039	1.47197	391.8108	580.4186
0.30911	0.94414	718.0355	677.7643	-1.20737	0.16833	0.82825	663.7158	554.3519
0.0014	0.74307	8841.438	6573.755	1.04038	0.49633	1.04038	7657.164	7963.193
0.77134	1.02444	559.7814	571.7026	1.1179	0.12898	1.1179	597.9857	667.7771
0.00632	1.11874	3213.628	3595.221	1.1294	0.03018	1.1294	3435.433	3875.423
0.50698	0.90098	504.1279	459.6485	-1.17609	0.15189	0.85028	656.1871	554.2434
0.20257	0.93612	1110.789	1040.345	-1.05577	0.32725	0.94718	1098.448	1039.683
0.09782	0.7987	697.6585	550.2463	1.10855	0.19923	1.10855	559.1519	618.9212
0.65919	1.024	1312.888	1342.229	-1.02702	0.63615	0.97369	1346.085	1311.439
0.46564	1.05391	1185.502	1242.46	-1.02473	0.70613	0.97587	1144.643	1118.996
0.42037	1.12645	448.1552	497.0861	1.49603	0.00008	1.49603	372.9728	559.6853
0.00243	0.79666	4964.74	3945.345	1.21572	0.03104	1.21572	4390.813	5325.514
0.52253	1.06226	814.067	860.586	1.12224	0.16483	1.12224	702.5738	786.4792
0.80924	1.07616	154.4153	172.8624	1.11285	0.75571	1.11285	126.4929	140.985
0.00086	0.78573	1900.171	1492.537	-1.15201	0.1203	0.86805	1799.96	1553.917
0.18778	0.90671	21232.55	19288.3	-1.04581	0.47523	0.95619	20166.96	19274.38
0.75651	1.02971	651.4619	667.3588	1.23076	0.00656	1.23076	635.9479	784.1373
0.56232	1.04937	3096.22	3238.593	1.18684	0.00511	1.18684	3377.505	4014.591
4.41E-07	0.8096	4025.843	3259.313	1.08517	0.24711	1.08517	3513.631	3820.621
0.21538	1.15993	825.1655	959.2611	2.04509	0.00073	2.04509	742.0746	1552.057
0.09648	1.13085	910.9533	1032.611	1.00965	0.90385	1.00965	919.2443	925.1264
0.51242	1.10011	575.2105	641.7475	1.06264	0.68091	1.06264	557.654	584.7791
0.00849	0.71033	9689.992	6895.669	1.09398	0.42037	1.09398	9967.665	10754.4
0.95283	0.98701	158.8416	158.101	-1.1833	0.55581	0.8451	141.8028	119.8823
0.09633	0.8695	3217.976	2781.453	-1.09252	0.32253	0.91532	2817.543	2592.787
0.05114	1.10195	3515.751	3875.167	-1.1262	0.09552	0.88794	4088.188	3617.537
0.00405	0.78704	4147.064	3259.213	1.09917	0.21419	1.09917	3625.233	3987.15
0.91822	0.99203	496.6004	493.4434	-1.00189	0.9831	0.99811	542.2755	542.5179
0.81899	0.93589	123.066	114.8406	-2.2251	0.09795	0.44942	116.5995	51.7998

0.23565	1.06765	3540.299	3770.396	1.05492	0.27603	1.05492	3606.786	3809.647
0.89594	0.98473	273.3669	268.918	-1.02822	0.86316	0.97255	259.6246	251.172
0.79751	0.96528	278.9008	270.8203	-1.16909	0.43932	0.85536	199.9265	170.2618
0.97178	1.00581	203.4547	203.8607	3.05148	3.94E-23	3.05148	161.3289	492.2807
0.12217	1.09495	1810.759	1973.216	1.18516	0.00054	1.18516	3089.094	3658.129
3.34E-09	0.60396	15997.04	9710.848	1.10144	0.1284	1.10144	14091.23	15504.23
0.25545	1.21569	204.6752	247.8625	1.21845	0.20079	1.21845	220.4585	269.3865
0.76575	0.91752	171.3799	151.2484	-1.04818	0.8058	0.95404	235.9742	226.1768
0.00056	0.72559	1766.832	1270.953	1.03578	0.62292	1.03578	1382.815	1434.678
0.36577	0.78132	396.9862	295.8195	1.34787	0.15096	1.34787	353.2936	487.9742
0.12556	1.12602	2470.161	2759.226	1.10101	0.12054	1.10101	2623.142	2904.61
5.10E-08	0.7809	9829.813	7676.965	-1.29469	1.75E-06	0.77238	8481.193	6550.888
0.26324	1.08401	1694.48	1842.427	-1.01027	0.85677	0.98984	1589.958	1570.061
0.899	0.99296	1818.34	1804.975	1.07956	0.12062	1.07956	1670.368	1803.366
0.51747	1.03478	1217.433	1258.614	1.19527	0.04473	1.19527	1227.331	1459.276
0.679	0.95324	4184.522	3916.476	-2.0499	0	0.48783	5031.714	2454.913
0.3885	1.06518	2688.414	2858.509	-1.07764	0.18724	0.92795	3271.855	3033.077
0.65206	1.07179	219.865	236.2919	-1.12528	0.5523	0.88867	211.4202	186.9563
0.83322	0.98532	1326.126	1314.886	-1.01064	0.88199	0.98947	1233.97	1216.951
0.00012	1.18513	1525.086	1807.51	-1.00287	0.95526	0.99713	1757.024	1750.731
0.7456	0.97586	10371.15	10160.56	1.36964	1.80E-10	1.36964	11598.42	15886.81
0.19827	1.068	1036.483	1107.688	1.0052	0.93232	1.0052	1211.42	1215.984
0.93356	0.99034	486.7507	478.2956	1.28698	0.00242	1.28698	460.7867	593.8624
0.12118	0.85879	501.1519	428.6658	2.26185	2.79E-21	2.26185	433.0133	977.7012
0.88376	1.08048	72.10667	75.66675	-1.17018	0.75762	0.85457	92.20969	81.27158
0.00192	0.79147	3017.435	2384.504	1.23779	1.18E-06	1.23779	2624.967	3250.1
0.08085	0.86316	721.678	620.512	-1.03794	0.72641	0.96345	653.4829	631.4595
0.13336	1.08902	1296.394	1413.994	-1.18007	0.00153	0.8474	1382.562	1172.315
0.02773	1.13101	962.6681	1087.347	-1.01348	0.78193	0.9867	1340.881	1323.198
0.96001	1.0035	957.1989	957.5712	1.03935	0.52466	1.03935	960.9197	999.6705
0.41629	0.86896	276.0909	243.1162	-2.09717	0.26588	0.47683	171.6564	81.8514
0.10721	1.1471	6121.807	7052.961	-1.36365	0.00238	0.73333	7674.167	5590.176
0.0634	1.08072	3416.246	3692.404	-1.14792	0.01048	0.87114	3816.899	3320.351
0.24337	0.92025	631.4302	580.2242	1.06362	0.70786	1.06362	359.8751	389.5979
0.57593	0.90996	762.8525	683.0452	-1.20266	0.13113	0.83149	675.596	565.3174
0.91388	1.02424	128.661	131.8852	1.15143	0.62612	1.15143	116.3896	134.0826
2.76E-11	0.45583	2360.745	1062.475	-1.17904	0.03008	0.84815	1446.136	1228.277
0.02523	1.24939	413.4507	514.8301	1.6646	2.35E-12	1.6646	559.8315	931.6189
0.82224	1.01393	2128.636	2170.827	-1.14323	0.07387	0.87472	3100.608	2702.656
0.24593	1.06158	3815.963	4045.7	1.06612	0.12044	1.06612	4475.479	4771
0.32123	0.81581	1810.886	1447.975	2.22102	0.00005	2.22102	1390.597	3250.337
0.30234	1.09452	627.9119	690.3701	-1.29028	0.0105	0.77503	498.5132	387.2763
0.06048	0.85534	480.632	411.4061	1.32375	0.02426	1.32375	474.1115	622.8893
0.38878	1.09314	485.8839	534.1639	2.56623	0	2.56623	846.0792	2172.136
0.76538	0.97139	5182.23	5113.841	-1.1233	0.18685	0.89024	4966.267	4430.397
0.80106	0.97339	4234.763	4134.243	1.1376	0.13527	1.1376	3639.126	4132.985
0.09124	0.87501	7141.65	6278.93	-1.2166	0.00016	0.82196	6485.743	5334.273
0.96348	0.98855	115.4143	113.8813	1.08384	0.84562	1.08384	92.48493	100.9085
0.29206	1.07813	1306.324	1414.465	1.08724	0.25454	1.08724	1208.344	1313.041
0.36367	0.92848	414.6981	384.9376	-1.18402	0.07285	0.84458	411.683	347.5668
0.65701	1.03181	18747.97	19399.18	1.18336	0.001	1.18336	20111.46	23810.07
0.41959	1.06949	762.8093	815.5103	-1.03814	0.6373	0.96326	1110.273	1073.018

0.85462	0.96648	1899.113	1867.137	-3.82099	5.64E-21	0.26171	1566.257	406.7869
0.95939	1.00384	1317.596	1326.444	-1.02291	0.6859	0.9776	1219.695	1191.922
0.40008	1.07326	23328.47	25318.44	1.06172	0.14757	1.06172	24292.76	25792.14
0.04275	0.86036	3685.927	3172.053	1.1644	0.09713	1.1644	3355.991	3890.609
0.81889	0.96761	276.6204	269.5307	-1.1728	0.30314	0.85266	260.7228	222.1088
8.10E-08	0.69939	1197.86	836.7539	1.02072	0.76041	1.02072	960.1179	978.7073
0.80562	0.94863	203.2099	196.1927	-1.05809	0.82524	0.9451	155.5175	147.2401
0.02672	0.85691	977.9431	839.9202	1.37515	4.70E-07	1.37515	939.0176	1293.058
0.04288	0.73284	307.7383	223.5471	1.90034	5.98E-10	1.90034	259.395	493.5349
0.35054	0.9034	5282.599	4812.386	-1.261	0.00038	0.79302	5074	4044.661
0.01654	0.88331	2923.05	2584.816	-1.28312	1.30E-08	0.77935	2620.754	2042.213
0.75025	0.9272	199.3949	190.0081	-1.29355	0.20302	0.77307	195.0965	151.1722
0.65388	0.92586	649.9002	611.5096	-1.70833	1.25E-06	0.58537	528.6581	308.4628
0.13835	1.0641	7367.602	7839.069	-1.245	0.00041	0.80322	6706.437	5359.255
0.92896	1.0038	518.1173	521.3806	-1.3412	0.00001	0.7456	511.1722	380.4076
0.78405	0.84411	77.74574	72.21386	-1.09062	0.89829	0.91691	69.63356	62.68275
0.00139	0.60939	1428.717	859.8843	1.14349	0.05706	1.14349	911.7071	1044.567
0.04355	1.18484	475.875	562.2324	1.25195	0.0021	1.25195	514.8452	644.9896
0.00327	0.58474	500.9508	286.0776	-1.42635	0.00857	0.70109	328.8786	230.5439
0.05153	0.7932	13676.63	10891.18	-1.11956	0.3077	0.89321	12679.23	11281.47
0.56605	1.08425	4922.586	5272.385	-1.56794	6.97E-17	0.63778	7370.946	4700.356
0.08856	1.35143	446.1877	592.9688	2.11288	3.06E-09	2.11288	411.7765	876.1602
0.47037	0.96452	1983.116	1914.642	-1.05937	0.44353	0.94396	2179.747	2054.518
0.82587	1.03165	367.3345	380.3672	-1.05798	0.61205	0.94519	351.4494	332.6018
0.79548	0.98828	1622.344	1603.511	1.21426	0.00288	1.21426	1649.977	2004.907
0.18527	1.0778	5843.305	6280.208	1.00327	0.93623	1.00327	6720.526	6742.849
0.00002	0.62902	1584.902	986.9794	-1.02749	0.74722	0.97324	1205.689	1178.811
0.88787	0.92869	67.4787	62.81881	-1.0715	0.89343	0.93327	64.25786	59.98564
0.90584	0.98584	1643.098	1619.83	-1.08286	0.2769	0.92348	1893.791	1740.82
0.41477	1.08089	577.3096	620.7999	1.02688	0.78842	1.02688	497.6334	511.9953
0.30337	1.07559	889.8754	954.6841	-1.02466	0.64679	0.97593	1016.663	991.8469
0.0458	1.1088	1418.927	1575.402	-1.00351	0.9523	0.9965	1412.623	1406.899
0.97922	0.99753	745.0495	740.6616	1.2794	0.00137	1.2794	929.887	1190.781
0.64341	1.03109	3124.925	3224.16	-1.06594	0.14856	0.93814	3042.862	2854.593
0.16199	1.08152	6432.172	6948.83	1.0487	0.26141	1.0487	6935.813	7274.242
0.6353	0.96647	1835.926	1787.766	-1.01788	0.74483	0.98244	1693.06	1662.918
0.06664	0.79284	775.3488	608.4251	1.24683	0.00061	1.24683	637.4097	795.1532
0.48009	0.95927	4032.31	3870.412	1.40446	4.15E-16	1.40446	3689.068	5181.129
3.51E-07	0.73397	1580.943	1160.11	-1.03454	0.76426	0.96662	1340.979	1295.614
0.84405	1.01162	1336.255	1356.009	-1.13358	0.03329	0.88216	1237.413	1089.964
0.20331	1.25432	672.2736	862.1197	-3.26329	6.83E-16	0.30644	517.4588	157.8394
0.30935	1.12075	302.6245	338.2177	1.39586	0.06717	1.39586	296.2394	406.9465
0.60584	1.05992	510.1568	536.5369	1.30843	0.00359	1.30843	482.7101	633.3991
0.7587	0.96941	706.9246	681.7173	-1.05949	0.34917	0.94385	862.9301	814.2334
0.52027	1.0575	1012.327	1069.169	-1.11996	0.0576	0.89289	1193.458	1067.201
0.99065	1.00192	291.9557	288.2946	-1.07183	0.75697	0.93298	232.3184	219.2003
0.97891	0.99457	514.1841	528.5402	-5.59707	5.65E-24	0.17866	480.2569	86.07962
0.0994	0.89259	2874.396	2559.093	1.6529	4.36E-11	1.6529	2671.358	4425.937
0.8349	1.06833	104.9899	110.8716	-1.03476	0.94055	0.96641	95.92978	92.29803
5.96E-07	0.71906	1854.189	1332.284	-1.02482	0.73921	0.97578	1552.159	1516.849
0.09707	0.90679	1706.114	1548.58	1.48681	0.00011	1.48681	1751.621	2602.644
0.07062	0.8714	2146.049	1872.542	1.00877	0.89717	1.00877	1957.783	1977.642

0.0001	0.78299	30300.01	23702.63	-1.07219	0.28866	0.93267	28203.89	26310.99
0.5747	0.94587	451.3914	428.109	1.02396	0.82124	1.02396	406.6157	415.468
0.05499	0.70675	1052.025	727.4482	1.73068	5.93E-06	1.73068	723.0675	1265.38
0.47104	0.8324	12685.66	9972.393	-3.63545	0	0.27507	10649.13	2924.126
0.60544	0.92118	343.8356	321.4208	-1.56108	0.05352	0.64058	354.4049	220.676
0.00364	0.67354	15072.38	10121.63	-1.61139	1.64E-09	0.62058	11256.61	6988.431
0.35335	1.04356	1255.167	1309.646	-1.13668	0.06195	0.87976	1351.429	1187.651
0.00007	0.67064	1482.746	991.6976	-1.27323	2.43E-06	0.7854	1156.422	908.202
0.60985	0.90894	623.9514	577.9611	-3.56466	9.96E-13	0.28053	525.4326	149.161
0.15832	1.08636	13901.5	15165.7	-1.27691	6.02E-06	0.78314	15194.33	11855.95
0.339	1.14005	1994.372	2300.305	-1.61056	0.00038	0.6209	2751.71	1690.069
0.27869	1.11075	364.492	405.155	1.08346	0.45352	1.08346	481.4069	519.2121
0.50008	1.05159	599.8545	632.3638	-1.05009	0.48288	0.9523	552.6255	526.358
0.9419	0.98603	24502.73	23495.15	-3.29324	4.65E-18	0.30365	28494.73	8416.01
0.00638	1.13948	3166.063	3609.372	-1.14316	0.08274	0.87477	4016.295	3512.916
0.01295	1.12321	3735.018	4193.823	-2.05323	1.59E-33	0.48704	3303.798	1606.258
0.10285	1.12417	5559.984	6260.21	1.18181	0.00075	1.18181	5069.262	5990.78
0.0019	0.77839	2035.643	1590.006	1.55483	8.00E-12	1.55483	1884.971	2928.76
0.76266	0.94277	343.1162	315.7378	1.84396	1.86E-09	1.84396	253.4447	467.0361
0.79305	1.0603	170.4855	180.5973	-1.03359	0.89157	0.96751	187.3764	183.4887
0.31199	1.15089	920.1719	1059.017	-1.08424	0.21906	0.92231	2266.89	2074.767
0.41465	1.05714	770.4534	816.2556	1.04856	0.53061	1.04856	796.7069	833.5781
0.92306	1.00733	756.0997	759.03	1.13203	0.03688	1.13203	753.1991	852.4169
0.06285	1.11768	1776.538	1992.822	1.36557	1.17E-09	1.36557	2758.303	3766.662
0.00383	1.15786	1104.943	1280.189	-1.14346	0.0429	0.87454	1071.207	935.6587
0.53634	0.95607	1355.743	1297.512	1.59749	4.41E-23	1.59749	1258.105	2009.766
0.07793	0.73188	1722.61	1247.497	1.11051	0.44193	1.11051	1266.636	1426.583
0.78269	0.95963	507.2909	479.442	1.15704	0.10329	1.15704	521.0394	604.1674
0.34718	0.90935	1238.126	1121.341	1.0612	0.52646	1.0612	1053.465	1123.76
0.01401	0.84018	544.7832	457.6003	-1.11126	0.46798	0.89988	436.7222	389.661
0.80359	0.97119	710.4496	685.2046	-1.04938	0.5702	0.95294	833.9014	796.0121
0.92619	1.00907	438.5899	440.827	1.2201	0.02802	1.2201	405.4318	494.3557
1	1	17.70794	24.15968	1	1	1	17.527	30.78782
0.01178	1.29911	9410.58	12198.28	-2.1511	1.59E-08	0.46488	13692.55	6299.991
0.05591	0.68451	11262.14	7417.351	-1.03006	0.87211	0.97082	8144.145	8006.801
0.58179	1.03702	1140.361	1187.54	-1.13753	0.06303	0.8791	1064.856	934.4176
0.98076	1.0016	2757.677	2778.074	-1.03035	0.70265	0.97054	2969.701	2880.893
0.15463	1.09848	4537.985	5000.087	-1.32701	0.00053	0.75357	5453.864	4095.055
0.87225	1.01302	2320.662	2360.17	-1.18678	0.00892	0.84261	2796.483	2367.826
0.50363	1.18796	140.2804	163.8617	1.27752	0.21325	1.27752	165.0385	211.2138
0.50015	1.0986	274.4791	299.3638	-1.08495	0.52652	0.9217	295.9683	273.1772
0.4399	1.17838	161.5431	190.0861	-1.04274	0.92232	0.95901	139.2091	124.5626
0.68689	1.05337	408.8263	435.7789	-1.02578	0.82143	0.97487	628.9213	609.1845
0.88648	1.01194	689.5706	700.5532	1.00595	0.93744	1.00595	617.6227	620.4835
0.84208	0.97835	308.724	301.3411	-1.03941	0.78341	0.96209	326.3365	315.5695
0.00034	1.17788	1301.683	1533.47	1.1627	0.00413	1.1627	1393.449	1618.23
0.00589	1.19431	1994.565	2384.81	-1.2893	0.01687	0.77562	2466.974	1913.707
0.79414	1.03164	318.1184	326.6309	1.08695	0.57377	1.08695	308.0697	334.9376
0.00238	1.1585	6622.829	7656.373	-1.22156	0.00017	0.81862	9480.278	7742.188
0.79262	1.04157	221.8005	230.8607	1.01134	0.94383	1.01134	256.1621	259.213
0.73768	0.78978	51.07729	40.20631	1.99155	0.49539	1.99155	25.16965	49.0627
0.42319	1.08188	1148.617	1234.975	-1.07339	0.29715	0.93163	2387.838	2215.252

0.72765	0.96709	811.2308	781.733	1.452	2.87E-07	1.452	708.0729	1030.281
0.79029	1.0274	1309.37	1349.121	1.72443	5.47E-06	1.72443	1238.776	2161.141
0.89704	0.98981	702.4487	692.8378	-1.02047	0.74855	0.97994	714.7115	700.693
0.93259	0.99415	528.8247	525.454	-1.1605	0.21584	0.86169	437.8676	377.6625
0.0202	0.77542	479.0207	369.3651	-1.08158	0.40453	0.92457	434.9826	401.7328
0.73421	0.97252	840.883	814.712	-1.19596	0.00312	0.83615	814.5324	681.0261
0.00197	0.82755	2781.676	2307.321	1.02977	0.53072	1.02977	3719.642	3827.812
0.9479	0.97616	96.11639	93.26018	1.02083	0.95766	1.02083	107.1229	111.481
0.75265	0.95308	246.991	234.4681	1.05088	0.73032	1.05088	258.1066	271.4194
0.65982	1.05996	319.5692	336.3888	-1.05033	0.64203	0.95208	346.3114	329.6356
3.88E-09	0.76107	1672.706	1273.17	-1.08958	0.10802	0.91778	1366.234	1253.111
0.00078	0.65442	1907.076	1236.229	-1.20509	0.12366	0.82981	1522.299	1262.775
0.02426	0.71828	694.5046	491.0492	-1.42953	0.00019	0.69953	529.6535	371.2076
0.1872	1.0703	3576.838	3834.31	1.01956	0.69856	1.01956	3915.107	3991.871
0.44897	1.0513	2240.869	2366.44	-1.05457	0.50086	0.94826	2412.787	2277.02
0.57855	1.03365	3434.088	3564.204	-1.04718	0.46527	0.95495	3641.733	3478.365
0.75327	1.06673	169.1491	181.989	-1.14055	0.49494	0.87677	191.4584	167.4985
0.0002	1.39187	18340.41	25555.19	1.28424	0.00033	1.28424	17992.26	23045.71
0.62609	1.08267	241.4743	261.1454	1.02489	0.83614	1.02489	412.5648	420.668
0.85201	0.97789	1378.92	1347.35	1.45473	0.00015	1.45473	1184.959	1731.511
0.0574	1.10594	1686.655	1861.756	1.1769	0.01297	1.1769	1638.462	1926.342
0.09654	1.15683	965.8368	1117.506	-1.0258	0.83637	0.97485	1038.687	1003.682
0.85117	0.97976	650.1482	633.07	-1.04699	0.60734	0.95512	688.6683	659.7095
0.61271	1.12367	141.9237	158.8971	-1.09678	0.78478	0.91176	129.1539	117.2559
0.01452	0.82297	459.4428	378.35	-1.16444	0.28397	0.85878	375.734	321.1613
8.38E-09	0.74396	11282.64	8395.501	-1.12209	0.03135	0.89119	9868.264	8792.213
0.0529	0.85374	2907.059	2490.688	-1.17796	0.07396	0.84893	2789.519	2361.176
0.66115	0.93467	686.4574	649.6604	-3.53987	3.34E-14	0.2825	580.3747	162.2335
7.99E-10	0.69149	784.2824	542.4521	-1.04266	0.78873	0.95908	483.7929	466.0397
0.46122	0.61576	74.50057	44.72327	1.2715	0.82167	1.2715	39.00851	54.65854
0.03565	0.79483	353.7363	281.7905	1.9029	0.00005	1.9029	271.9156	513.244
1	1	19.12516	24.61212	1	1	1	18.46706	34.68896
0.59011	1.1642	121.7442	140.7765	1.45074	0.12225	1.45074	127.1821	185.4298
0.56965	0.96813	1379.405	1336.058	1.59397	2.12E-12	1.59397	1267.959	2017.408
0.81024	1.0267	343.9821	352.6559	1.22878	0.01797	1.22878	384.191	471.8765
0.94502	1.00731	636.2163	645.4094	-1.23825	0.1646	0.80759	465.6831	379.9433
0.37296	1.0828	1515.999	1639.663	1.40542	1.89E-06	1.40542	1340.663	1881.234
0.37568	1.07712	400.8341	431.3447	1.044	0.67642	1.044	426.5599	446.4999
0.85385	1.0493	125.3079	132.6092	1.06927	0.82989	1.06927	136.7149	146.6061
0.46275	0.89778	478.5087	424.0079	-1.80313	0.00178	0.55459	436.7684	245.7891
0.26276	0.94432	2208.873	2086.135	1.02535	0.60948	1.02535	2005.22	2055.089
0.05768	1.44078	295.7858	419.1054	2.08478	0.00007	2.08478	260.5951	550.6141
0.82367	1.34151	20.17883	27.32418	1	1	1	18.14391	30.73817
0.26414	0.65102	133.5136	84.6932	-1.66414	0.14021	0.60091	134.779	80.42554
0.11739	1.08497	1469.78	1591.74	1.0422	0.638	1.0422	1069.828	1106.748
0.99449	1.00062	2147.216	2157.078	1.31589	0.02679	1.31589	1817.201	2391.705
0.51588	1.03699	3708.268	3854.376	1.09355	0.04046	1.09355	3783.098	4137.462
0.20085	1.26868	962.5372	1239.317	-3.30291	8.64E-09	0.30276	904.0282	273.7066
0.00171	0.74317	2550.21	1892.934	-1.16722	0.03619	0.85674	2460.454	2098.812
7.26E-11	0.62429	2343.095	1467.808	1.41826	6.73E-12	1.41826	2035.616	2883.891
0.00066	0.67914	2388.643	1604.117	1.24385	0.01282	1.24385	1872.793	2337.51
0.54271	1.06247	446.91	472.5847	1.09241	0.38187	1.09241	461.007	505.1946

0.17894	1.07004	2967.239	3167.549	-1.02874	0.53704	0.97206	3078.811	2996.706
0.46589	1.0578	595.402	628.0576	-1.08257	0.37691	0.92373	655.4986	603.6697
0.17474	0.75655	488.5773	379.2235	1.85116	0.00052	1.85116	411.6321	754.6246
0.12027	1.07462	2257.021	2424.799	1.11454	0.05782	1.11454	2325.521	2586.718
0.28624	0.93993	7388.155	6941.396	1.26498	0.00006	1.26498	7370.997	9319.226
0.26448	1.09432	485.525	530.7958	-1.12379	0.29432	0.88985	627.8845	561.322
0.59397	1.10335	194.952	213.1929	4.97642	0	4.97642	225.7226	1121.665
0.55915	1.0418	2771.899	2879.962	1.05878	0.35893	1.05878	2465.512	2617.327
0.00753	0.77449	3567.51	2758.456	-1.09364	0.19577	0.91438	2884.393	2640.937
0.3513	0.91945	4068.492	3735.69	1.26876	0.01561	1.26876	3579.989	4543.428
0.25731	0.8863	355.1655	313.8979	1.08691	0.48994	1.08691	304.3806	331.0668
0.67315	1.02308	3085.454	3147.769	-1.03553	0.48288	0.96569	4850.666	4680.445
0.00126	0.69153	1128.158	774.3996	1.13503	0.11642	1.13503	922.2703	1049.389
0.80805	1.02433	753.2025	777.1907	-1.1139	0.2605	0.89775	782.5674	700.0075
0.12792	1.08737	4399.011	4773.384	1.13175	0.00462	1.13175	4393.893	4972.807
0.85133	0.83535	46.28104	39.67817	1.23972	0.89776	1.23972	23.05047	31.09726
0.6793	0.9669	2689.108	2664.326	1.28676	0.26427	1.28676	825.3861	1102.904
0.02765	0.72858	430.6081	310.1809	-1.16656	0.28225	0.85722	368.7299	318.2741
0.54105	0.9626	1207.599	1160.019	1.17009	0.0243	1.17009	1041.024	1218.836
0.00388	0.69754	466.5305	322.6571	-1.02907	0.76639	0.97175	347.9419	338.0687
0.78088	0.88517	103.5474	96.39865	-1.28769	0.70397	0.77658	81.15456	62.66891
0.00015	0.74127	4674.972	3463.525	-1.15578	0.02858	0.86521	4266.257	3689.399
0.35332	1.06555	571.9419	609.8034	1.2007	0.01554	1.2007	525.7625	630.9784
0.10133	0.87492	434.1061	380.0474	-1.55199	0.00604	0.64433	344.9933	222.7479
0.27558	0.91609	1922.98	1760.781	-1.23514	0.00631	0.80963	1746.144	1419.021
1.19E-07	0.72853	905.358	659.7114	1.42026	0.00027	1.42026	700.7116	992.1604
0.55246	1.03002	1532.863	1576.832	-1.05029	0.41542	0.95212	1499.659	1423.805
0.89334	0.98997	966.1577	960.5487	-1.21575	0.00163	0.82254	806.7358	663.8939
0.82073	0.97559	537.033	526.8825	-1.04736	0.58202	0.95479	460.3204	439.6319
0.28361	1.06153	1022.413	1085.862	-1.14162	0.24279	0.87595	1030.416	908.9388
0.55071	0.94593	1469.595	1382.261	-2.67346	5.08E-21	0.37405	1855.389	689.5366
0.22069	0.91185	8995.691	8259.179	-1.10416	0.03125	0.90567	9802.391	8875.529
0.92787	1.01667	223.4218	224.6578	1.00154	0.99264	1.00154	211.1554	211.956
0.00023	1.27274	638.1393	811.324	-1.02192	0.7617	0.97855	600.745	587.4359
0.06378	0.90301	2649.377	2396.461	-1.23827	0.0006	0.80758	4136.671	3344.858
0.99934	1.0002	182.8296	181.9015	-1.04681	0.83244	0.95528	199.351	191.0404
0.47497	0.96503	2866.248	2761.459	-1.03702	0.43308	0.9643	2890.277	2785.461
0.14739	0.93265	1422.12	1326.298	1.18433	0.00081	1.18433	1214.216	1437.816
0.27044	1.05512	2074.33	2188.432	-1.04489	0.49587	0.95704	1635.194	1563.529
0.38502	0.91806	4704.605	4335.458	-1.22906	0.00278	0.81363	4484.053	3634.339
0.18403	1.09184	1196.528	1303.588	1.07383	0.26398	1.07383	1225.727	1316.64
0.03697	0.77994	565.8977	445.1926	1.0246	0.8384	1.0246	373.36	384.1367
0.41403	1.05009	1045.392	1098.225	1.68211	6.06E-10	1.68211	897.8982	1507.553
0.10817	0.86488	972.1489	836.3921	-1.06138	0.32455	0.94217	900.685	849.1282
0.00525	0.86297	9269.34	8006.595	-1.08569	0.14614	0.92108	9166.164	8462.361
0.20222	1.12224	426.8842	478.1388	1.23874	0.01307	1.23874	441.5245	547.6704
0.00064	0.84697	2799.63	2369.686	1.09953	0.09691	1.09953	2473.636	2713.562
0.61059	1.04913	1891.941	1982.928	1.00261	0.96125	1.00261	2135.197	2136.674
0.4764	0.79665	105.0282	83.26723	2.98462	1.97E-08	2.98462	95.21072	283.8544
0.42765	0.83287	866.3679	730.662	-2.63923	3.73E-14	0.3789	558.8615	212.082
0.97062	0.99295	213.6705	214.7379	3.86048	0	3.86048	224.9004	868.324
0.92497	0.9958	4123.294	4106.25	1.22117	2.09E-06	1.22117	4297.057	5246.785

0.67529	0.96837	1207.359	1168.651	1.3591	0.00074	1.3591	1099.995	1495.977
0.58181	0.95475	1048.06	1002.726	1.00717	0.90027	1.00717	940.9022	947.2023
0.59424	1.05257	397.3828	417.4362	-1.24345	0.11148	0.80421	390.9078	313.3382
0.38135	0.79272	409.6349	311.1863	1.93861	0.00011	1.93861	275.5115	538.457
0.32732	1.07194	12456.58	13412.21	-1.13433	0.00245	0.88158	12436.19	10962.52
0.55953	1.04501	1080.175	1127.168	1.34697	1.43E-07	1.34697	947.9207	1277.802
0.0274	0.81111	7198.773	5864.813	1.40908	0.00002	1.40908	6103.924	8641.682
0.03858	0.56791	437.7437	237.198	1.16661	0.35715	1.16661	273.1253	318.6393
0.29474	0.92772	662.3713	614.618	-1.09747	0.44428	0.91118	596.2407	539.3869
0.63617	1.09327	167.537	184.0728	-1.19296	0.62052	0.83825	160.714	132.1357
0.62438	0.93654	391.7761	363.182	1.2649	0.03508	1.2649	375.0388	474.8959
0.10737	1.2217	547.3257	662.6554	1.84555	3.46E-13	1.84555	488.4648	899.7203
0.00062	0.77785	864.3981	671.345	1.38251	4.25E-07	1.38251	824.1528	1139.083
0.08525	0.79025	1176.676	920.2825	-1.08791	0.5395	0.91919	908.1207	840.6403
0.50507	1.04721	3100.985	3267.132	-1.0371	0.58472	0.96423	3055.488	2931.48
0.12109	0.89498	886.3783	794.8024	1.1006	0.42252	1.1006	724.2322	802.327
0.2654	0.92611	2023.756	1873.179	1.78554	2.20E-12	1.78554	1839.489	3290.643
0.87208	0.96429	130.9398	126.4434	-1.39469	0.34084	0.71701	128.814	93.32214
0.34942	0.92722	2697.969	2503.285	1.2791	0.00002	1.2791	2347.544	3003.515
0.75442	0.93208	187.7501	178.0103	-1.2588	0.4061	0.79441	145.575	116.2872
0.71128	1.03039	1134.625	1175.13	-1.12879	0.16566	0.8859	1251.054	1104.626
0.0367	0.65639	631.494	402.3037	1.01753	0.91767	1.01753	460.2138	471.596
0.52556	0.94132	341.7974	321.897	-1.08821	0.52329	0.91894	337.6584	311.6456
0.67985	0.95495	6466.573	6173.056	-1.08085	0.49121	0.9252	7151.101	6630.079
0.40104	1.04856	1419.3	1488.125	1.09355	0.13433	1.09355	1344.094	1468.239
0.02262	1.15039	2093.034	2412.375	-1.26141	0.00763	0.79276	2790.75	2195.658
0.81336	0.93645	158.642	152.5941	-1.42624	0.22299	0.70114	159.8442	113.1772
0.18104	1.19164	964.35	1124.191	1.28297	0.00006	1.28297	1122.338	1439
0.93889	0.98138	133.4632	130.8767	-1.20474	0.68498	0.83006	101.7782	84.95403
0.73687	0.94078	278.9746	268.3397	-1.2134	0.42153	0.82413	215.6129	176.9108
0.00153	0.64333	9096.375	5862.709	3.01497	0	3.01497	3301.685	9952.007
0.95427	1.00316	3575.837	3590.6	1.60653	6.84E-12	1.60653	3115.915	5016.924
0.1234	1.11044	1470.225	1635.975	1.1179	0.01008	1.1179	2430.511	2717.652
2.18E-06	0.71581	6256.719	4477.554	1.2103	0.02565	1.2103	4650.572	5641.106
0.98973	0.99826	283.9415	285.0978	-3.00478	0.00197	0.3328	260.1143	84.88829
1	1	18.96996	24.60885	1	1	1	16.67442	30.9793
0.03594	0.69893	813.1731	557.1395	1.21628	0.0059	1.21628	596.1471	724.4146
0.70388	0.9671	4373.439	4249.99	1.24248	0.00008	1.24248	5542.065	6887.24
0.83687	1.12189	55.29742	61.98316	1.14289	0.7874	1.14289	68.41917	78.42074
0.72919	0.95727	968.4015	926.0131	1.0914	0.14296	1.0914	797.6906	870.1608
1.44E-12	0.56474	3605.706	2035.54	-1.40889	6.41E-08	0.70978	2650.573	1877.856
0.49229	1.08356	279.6205	302.4758	1.00855	0.95445	1.00855	258.476	261.3688
0.94283	0.99241	492.4451	491.6455	-1.20872	0.107	0.82732	472.8106	389.5339
0.06614	0.77695	1130.51	886.4982	-1.05112	0.53656	0.95137	1006.151	957.5873
0.66201	0.97068	1036.529	1008.978	-1.13676	0.15655	0.87969	974.0292	853.6069
0.84471	0.98612	5298.159	5246.123	1.27037	0.00182	1.27037	5389.789	6875.224
0.00212	0.63936	494.4123	311.8085	-1.05656	0.61163	0.94647	357.9117	338.9195
0.03938	1.18166	2417.7	2828.795	-1.00504	0.90712	0.99499	3484.571	3466.112
3.35E-39	0.52217	2699.183	1409.057	-1.05627	0.29989	0.94673	1966.184	1859.853
1	1	18.58821	24.60358	1	1	1	18.96988	30.86097
0.00204	0.58815	1995.235	1134.328	-1.08224	0.48068	0.92401	1630.471	1502.066
0.00034	0.68996	1696.037	1169.035	1.34179	7.60E-06	1.34179	1384.761	1860.342

0.94434	1.00868	511.6111	520.7067	-1.26126	0.06691	0.79286	414.1903	326.6699
0.68838	0.94114	279.1784	260.7316	1.47409	0.0144	1.47409	303.9437	445.7789
0.82137	1.01717	758.288	770.6636	1.15205	0.18598	1.15205	998.0181	1146.126
0.80627	0.98671	5042.928	4974.058	-1.04033	0.47287	0.96123	5439.356	5226.221
0.02685	0.86774	2813.233	2452.616	2.0273	2.20E-21	2.0273	2530.89	5136.381
0.26225	0.93997	1331.787	1248.959	-1.13254	0.00602	0.88297	1725.834	1524.012
0.11045	0.76569	248.5328	188.9869	-1.30071	0.40412	0.76881	192.941	145.8528
0.54344	0.90722	200.4522	181.6923	-1.17488	0.64172	0.85115	168.2042	141.1623
0.20659	0.91072	1311.257	1199.252	1.03692	0.527	1.03692	991.6289	1029.035
0.82583	0.97874	494.1271	485.9681	-1.07382	0.48026	0.93126	442.0272	411.3109
0.75926	0.93801	376.8261	356.8874	-1.13209	0.5258	0.88332	359.6497	316.3768
0.26243	1.14985	1440.65	1656.527	-1.03481	0.62447	0.96636	3623.561	3499.907
0.47999	1.04757	2919.865	3041.773	-1.00447	0.95641	0.99555	2352.657	2327.283
0.07489	0.82167	495.1492	404.1209	1.14374	0.08026	1.14374	462.0966	528.4006
0.02177	0.73295	1810.772	1310.957	1.09141	0.33789	1.09141	1504.238	1651.488
0.19393	0.92837	12357.83	11464.04	1.89037	6.80E-30	1.89037	11979.73	22648.46
0.00002	0.62848	7063.006	4418.057	-1.10905	0.21036	0.90168	5607.086	5051.035
0.63669	0.97038	2562.373	2498.579	-1.06707	0.31365	0.93714	2514.168	2354.639
0.81257	0.98171	838.1485	826.3795	-1.09613	0.1492	0.9123	689.2476	628.5745
0.46298	0.86998	327.9004	274.2494	1.01287	0.91692	1.01287	340.4445	346.0061
0.78236	0.9278	29024.77	24532.72	-15.44772	0	0.06473	29287.22	1889.223
0.95916	0.99478	389.0444	385.576	-1.01891	0.86979	0.98144	329.1484	322.5748
1.91E-09	1.30088	2437.223	3170.367	1.25835	1.19E-07	1.25835	4902.095	6168.613
0.33717	0.94456	2282.399	2145.092	-1.069	0.2431	0.93545	2138.108	1992.563
0.6385	0.93429	466.0939	437.575	-1.37684	0.0578	0.7263	332.1499	243.5651
0.01133	0.66365	5441.18	3544.684	1.08916	0.55396	1.08916	5137.315	5654.137
0.92648	1.0409	77.79296	79.66604	2.34389	0.04305	2.34389	62.29697	145.6639
0.57227	0.82033	130.7254	104.1578	1.19326	0.65215	1.19326	91.85099	109.0088
0.01552	0.72729	1504.448	1082	1.63555	0.00001	1.63555	1097.398	1813.093
0.45486	1.05264	902.6892	947.3408	1.08683	0.32418	1.08683	924.0147	1007.195
0.7097	1.03413	738.933	766.0021	1.04084	0.45846	1.04084	1021.774	1063.584
0.00014	1.25585	1904.696	2397.914	1.2481	4.64E-07	1.2481	2583.912	3226.121
0.8797	1.02924	269.347	280.0933	-1.5377	0.02758	0.65032	219.65	142.8463
0.18122	1.34848	148.6664	197.9878	1.75778	0.0241	1.75778	107.5841	189.8653
0.87951	1.00926	4210.722	4235.347	-1.0864	0.04241	0.92047	4549.14	4187.366
0.3809	1.07754	532.9148	575.9233	-1.1215	0.1248	0.89166	544.9624	485.6902
0.04363	0.78867	1218.421	954.5712	1.0424	0.70563	1.0424	936.6104	983.3013
0.48805	0.90557	481.9944	430.1243	1.64936	0.00001	1.64936	441.8794	733.5167
0.83582	1.05336	373.2464	423.2635	-8.0399	3.94E-14	0.12438	374.5617	47.16157
0.61288	1.02479	4701.037	4825.147	-1.11493	0.05759	0.89692	4685.683	4209.347
0.9673	0.99549	410.2341	407.7368	-1.01006	0.95348	0.99004	351.8803	353.3434
0.5989	1.03267	662.3064	683.6023	-1.23771	0.02839	0.80794	573.0839	462.6351
0.81417	1.03638	313.7123	329.9482	-1.26917	0.04258	0.78792	534.2863	422.1725
3.32E-12	0.66042	2749.469	1813.75	-1.57527	4.36E-19	0.63481	2062.616	1309.733
0.62238	1.03195	1049.94	1081.904	-1.0388	0.54334	0.96265	1052.972	1015.002
0.41098	1.06967	1036.378	1104.518	-1.18914	0.01124	0.84095	1308.773	1103.247
0.07802	1.15632	3675.163	4273.893	-1.3279	0.00409	0.75307	4456.409	3348.706
0.87417	1.20499	23.14537	28.50417	-1.18999	0.88597	0.84035	27.2721	30.51834
0.4881	0.88144	327.9537	281.2468	1.15319	0.47243	1.15319	291.7247	331.6093
0.80976	1.06774	133.9099	142.8862	-1.06312	0.81169	0.94062	169.4979	157.7893
0.43968	1.05844	4301.059	4531.487	-1.32018	0.00446	0.75747	4518.995	3403.944
0.53608	1.03728	13914.63	14439.33	1.08036	0.12369	1.08036	14237.67	15391.07

0.77104	1.0361	340.814	350.9033	-1.0711	0.58079	0.93362	315.4269	295.1181
0.5325	0.9496	1588.827	1496.242	1.33911	0.00861	1.33911	2030.108	2717.742
0.06593	1.08812	3188.761	3467.118	-1.08885	0.17665	0.9184	3284.663	3024.063
0.80144	0.97307	1170.791	1152.948	-1.0512	0.64311	0.9513	1294.139	1227.7
0.83151	0.92471	119.0139	114.1389	1.06191	0.90409	1.06191	116.2259	115.3922
0.03969	1.20566	1469.258	1782.044	-10.04875	1.10E-22	0.09951	1783.167	177.4516
0.67846	0.95242	10438.96	9609.802	-1.52527	1.38E-20	0.65562	10750.3	7050.055
0.00916	0.8887	2572.436	2286.917	1.22158	0.00002	1.22158	2400.954	2932.281
0.00326	0.85967	1220.608	1049.449	-1.02611	0.80444	0.97455	1184.688	1144.977
7.82E-08	1.42006	590.9788	837.9976	1.86776	1.64E-30	1.86776	671.0229	1253.274
0.09969	1.11081	553.1252	614.6859	1.12584	0.27701	1.12584	544.6827	610.0379
0.44027	0.94024	6862.368	6415.688	-1.25465	8.66E-07	0.79703	6911.235	5505.427
0.61798	0.90424	173.5702	156.0371	1.12038	0.5552	1.12038	173.5628	194.2367
0.01733	1.12659	2544.065	2862.294	1.14783	0.00103	1.14783	2685.76	3082.603
0.1728	0.90882	1536.466	1395.617	1.32154	1.18E-06	1.32154	1371.323	1813.405
0.85179	0.92206	80.83417	73.69479	1.04403	0.92559	1.04403	76.93663	80.14481
				1.31175	0.01815	1.31175	231450.3	303604.3
0.19803	1.08562	2873.163	3106.351	-1.14288	0.00961	0.87498	4984.361	4349.84
0.57643	1.04719	710.6732	741.178	1.01841	0.7694	1.01841	700.7876	713.5665
0.07433	0.89004	7576.774	6728.147	-1.07725	0.11173	0.92829	7244.787	6726.802
0.29903	0.89605	26690.98	23896.21	1.14453	0.22279	1.14453	28319.7	32384.69
0.41854	0.94526	2025.573	1925.088	-1.11527	0.09891	0.89664	2118.233	1894.325
0.89493	1.03062	157.071	160.3729	1.02766	0.87433	1.02766	293.1526	305.3767
0.16088	0.91009	947.8839	861.9185	1.19449	0.01737	1.19449	878.1954	1051.451
0.20178	1.11611	734.5192	822.2512	1.44463	9.33E-06	1.44463	1125.386	1632.488
0.02602	1.10884	4062.888	4502.877	-1.51363	4.84E-13	0.66066	4233.796	2800.47
4.62E-28	0.59615	2622.158	1562.844	-1.08326	0.3223	0.92314	2216.459	2046.261
0.83197	0.91948	109.7159	104.9067	1.4253	0.51135	1.4253	81.16167	111.3673
0.73437	0.93776	193.6118	182.3307	-1.12515	0.67723	0.88877	134.0685	118.5725
0.02155	0.83032	3402.649	2822.81	1.03905	0.51124	1.03905	3414.042	3545.511
0.64447	1.04504	548.5313	571.3205	1.04313	0.47162	1.04313	922.9098	963.0824
0.00003	0.54143	1331.151	711.5309	-1.22912	0.01144	0.81359	926.5313	755.8551
0.57621	0.93814	378.3004	354.7555	-1.3065	0.04812	0.7654	347.9784	265.867
0.59738	0.91836	371.3909	334.9202	1.79249	6.82E-11	1.79249	327.6701	586.7227
0.72562	0.83304	74.13688	60.85459	2.72321	0.01346	2.72321	68.82394	183.2574
0.00107	0.82373	4463.119	3673.597	1.25295	0.0023	1.25295	3673.341	4611.626
0.94596	1.01068	262.6729	267.3083	-1.00844	0.9658	0.99163	221.0225	218.6015
0.85369	1.05655	122.1011	127.1158	-1.00248	0.9943	0.99752	119.1115	120.5555
0.9927	0.99939	2428.725	2428.871	1.16686	0.08771	1.16686	2338.59	2726.172
0.26371	1.07243	1218.46	1310.996	-1.05034	0.43941	0.95207	1251.905	1189.894
0.00008	1.26968	4530.159	5763.539	2.83096	8.95E-25	2.83096	4535.475	13008.91
0.04854	0.82457	4008.551	3324.034	-1.05999	0.51964	0.9434	4023.96	3770.962
0.43318	0.79593	135.7188	106.7331	1.42609	0.13119	1.42609	115.2698	164.5248
0.36815	0.86738	316.295	278.3223	1.07011	0.76801	1.07011	226.0898	238.054
0.293	1.1237	396.0104	442.1915	1.02579	0.81112	1.02579	370.2273	380.4777
1.40E-06	1.34136	2689.405	3594.896	-1.21906	0.00223	0.82031	4863.404	3970.159
0.05112	1.29533	18559.86	23776.31	-2.66007	2.57E-10	0.37593	31792.41	11463.79
0.97158	0.99784	2316.754	2302.867	-1.0253	0.56057	0.97533	2389.071	2330.396
0.98072	1.00173	1861.664	1875.36	1.67635	0.00002	1.67635	1586.778	2658.373
0.89249	1.01688	531.3806	535.004	-1.66489	0.00004	0.60064	497.0378	300.0255
0.64018	0.94797	4419.846	4181.431	-1.42397	2.59E-12	0.70226	3966.824	2783.394
0.31654	1.04853	2888.885	3032.71	1.0045	0.91353	1.0045	3361.232	3376.269

0.00029	0.80256	1879.219	1506.573	-1.21155	0.00063	0.82539	1573.018	1297.913
0.84782	1.01464	1144.273	1156.521	-1.07532	0.29525	0.92996	1043.67	971.6222
0.47279	1.07387	2553.928	2721.819	1.01734	0.76364	1.01734	2811.423	2865.659
0.01783	0.67488	1097.805	747.7175	-1.1764	0.4983	0.85005	450.689	387.0353
0.0041	0.81246	1248.651	1011.908	-1.30131	3.46E-06	0.76846	932.8808	716.9118
0.16077	1.11004	437.7255	486.066	-1.01829	0.83864	0.98204	506.3819	496.4709
0.69534	1.02763	3087.869	3174.067	1.09187	0.04183	1.09187	2672.404	2917.985
0.41827	1.1467	247.6748	280.1223	1.02597	0.86439	1.02597	243.0234	249.3621
0.38504	0.94993	714.8563	679.3886	-1.00691	0.95292	0.99314	553.9511	553.7914
0.98541	1.00175	363.3787	363.2565	-1.01637	0.88575	0.9839	394.6364	389.4846
0.82565	1.01421	1160.8	1172.906	-1.08651	0.27999	0.92038	1109.727	1016.801
0.25804	1.14346	275.5629	314.2634	1.32489	0.01023	1.32489	295.584	392.1282
0.60938	0.9185	387.6769	349.6097	2.40689	7.50E-19	2.40689	343.5338	824.7091
0.41288	1.05175	5428.949	5714.855	1.32367	1.86E-08	1.32367	6172.264	8168.765
0.01847	0.7513	6266.022	4723.565	1.0603	0.5882	1.0603	6220.42	6582.333
3.11E-10	1.48779	4712.233	7040.671	1.9673	9.83E-11	1.9673	4740.145	9392.637
0.76937	0.98124	911.608	892.7276	-1.00807	0.89472	0.992	902.3089	894.5693
0.68861	1.03627	634.618	655.2853	-1.01711	0.82418	0.98318	547.5388	537.9304
0.00006	0.6677	878.6661	582.9121	-1.20468	0.02617	0.8301	708.945	587.0563
0.9511	0.99692	2078.565	2072.52	1.017	0.80137	1.017	1659.826	1687.376
0.82493	1.16966	40.31295	47.1582	1.38966	0.69577	1.38966	48.25138	62.71091
0.67972	0.97084	11043.73	10716.68	-2.19829	1.99E-28	0.4549	10027.99	4548.29
0.04126	0.90802	10486	9534.471	-3.8518	1.79E-32	0.25962	8844.41	2261.59
0.46176	0.9193	5833.431	5392.228	1.58825	8.77E-15	1.58825	4741.41	7532.856
1.86E-06	0.81067	6663.961	5404.997	1.22638	3.98E-06	1.22638	6299.077	7727.249
0.11326	1.12859	1981.231	2239.622	1.71705	7.13E-18	1.71705	2018.241	3463.979
0.01597	0.71742	26425.16	18863.43	-1.0104	0.93029	0.98971	24143.07	23926.62
0.64824	0.96134	1528.71	1465.056	1.20993	0.0002	1.20993	1391.034	1681.752
0.08112	0.77065	446.9172	339.881	1.1306	0.3835	1.1306	357.7587	407.9846
0.00041	0.77502	8376.139	6507.257	1.12133	0.01081	1.12133	6968.192	7815.123
0.35633	0.93609	5156.423	4807.617	1.03322	0.64359	1.03322	4925.361	5087.665
0.00559	0.72987	8033.863	5849.068	-1.30178	0.00165	0.76818	6797.15	5202.838
0.11257	1.09384	1596.649	1740.595	1.10737	0.08012	1.10737	1820.328	2020.28
0.75991	0.95241	326.7617	306.3851	1.30477	0.0759	1.30477	259.6382	336.8016
2.59E-06	0.63857	5119.296	3279.338	-1.88089	2.11E-19	0.53166	3814.132	2032.226
0.08781	1.09228	5241.554	5700.549	-1.10913	0.05851	0.90161	6330.301	5703.69
0.43408	1.15884	613.1796	699.22	2.1258	1.01E-13	2.1258	516.6163	1105.438
0.00397	1.29057	9019.832	11626.51	-2.34467	9.71E-17	0.4265	13353.82	5578.654
0.40523	1.1498	176.9338	203.9868	-1.78798	0.05221	0.55929	159.6436	89.34037
0.74352	0.98467	1303.528	1283.823	1.43667	1.08E-08	1.43667	1138.246	1634.802
0.92757	1.0428	77.99482	83.54744	-1.17634	0.74105	0.85009	92.07782	76.84732
1.13E-09	0.56434	1384.286	774.0867	-1.15624	0.16015	0.86487	979.0786	850.3532
1	1	19.16239	23.12502	1	1	1	18.08055	29.72998
0.00106	1.14286	4450.729	5086.487	-1.14681	0.02142	0.87198	5211.372	4536.52
0.29907	0.89559	19835.11	17797.11	-2.29657	1.03E-20	0.43543	18299.54	7919.14
0.92836	0.88094	25.8507	27.04415	-1.0567	0.96616	0.94635	26.44162	30.02877
0.0659	0.82916	3141.585	2604.931	1.31039	0.00019	1.31039	2880.378	3769.213
0.68437	0.97349	1883.167	1825.646	-1.01573	0.73769	0.98451	1793.443	1764.947
0.14931	1.12006	3334.142	3750.449	-1.17386	0.05565	0.85189	4089.512	3486.261
0.38502	0.89998	570.9937	508.91	1.18153	0.12984	1.18153	474.0211	562.5995
0.24623	1.13206	426.605	483.6834	-1.10526	0.25175	0.90476	584.7257	529.4385
0.46952	1.10714	363.6106	406.2213	-1.81022	0.01717	0.55242	332.4733	179.6466

0.90482	1.0063	1963.934	1973.363	1.53379	2.65E-06	1.53379	1772.346	2720.391
0.38515	1.05652	769.5789	813.4888	1.49876	0.00015	1.49876	682.874	1020.312
0.68445	0.95064	279.0894	264.9252	1.20985	0.19826	1.20985	239.3975	290.6505
0.17751	0.93051	919.3236	855.6488	-1.27276	0.00168	0.78569	729.7578	574.1626
0.17718	0.91058	794.8355	725.4047	1.92501	2.64E-19	1.92501	723.5813	1393.659
0.0065	0.81447	5270.796	4281.653	3.10831	1.60E-29	3.10831	4246.093	13210.37
0.03817	0.70703	487.5814	337.0438	1.04841	0.65214	1.04841	354.4204	371.5635
0.80996	0.97254	1322.435	1277.51	1.41535	2.16E-07	1.41535	1120.66	1587.737
0.42374	1.06401	645.2239	684.5772	1.05267	0.48386	1.05267	639.3229	673.5383
0.39247	0.93191	1326.246	1233.736	1.68604	8.51E-19	1.68604	1088.443	1837.568
0.1681	0.86037	1093.633	936.2394	1.24679	0.00365	1.24679	1054.942	1318.434
0.56869	1.04684	1077.959	1135.805	1.01418	0.87538	1.01418	1112.042	1124.041
0.57291	1.06498	655.4251	703.7142	1.16664	0.04474	1.16664	524.6392	612.4949
0.81453	1.01937	3689.61	3773.128	-1.46121	2.89E-10	0.68436	4332.239	2961.009
0.55215	1.05495	752.0092	794.5979	1.0001	0.99903	1.0001	1664.504	1646.248
0.41708	1.09692	638.7079	706.4157	1.0069	0.94703	1.0069	1107.176	1111.552
0.0603	1.14035	961.7147	1100.485	1.16959	0.03843	1.16959	991.5045	1157.959
0.70095	0.88743	2998.974	2401.626	-9.25035	3.35E-26	0.1081	3184.285	344.2339
0.00434	0.59414	2985.727	1772.296	-1.90036	3.98E-08	0.52622	3047.317	1571.222
0.94806	1.01541	245.2182	249.9301	-1.20745	0.22655	0.82819	245.3303	203.1815
1.10E-12	0.68197	3365.661	2299.132	-1.34539	1.48E-10	0.74328	3836.151	2849.045
0.13321	1.12878	524.7742	593.3934	1.06749	0.55313	1.06749	602.4867	639.8017
0.86293	1.02394	222.333	228.0297	-1.05291	0.81235	0.94975	194.1205	182.9316
0.46154	0.94609	2131.255	2010.211	-1.12513	0.09545	0.88878	1604.192	1423.145
0.76426	0.97285	603.9348	584.7507	1.64611	4.85E-11	1.64611	556.9246	917.9497
0.02473	0.79041	4480.106	3534.029	1.30561	0.00558	1.30561	3863.273	5063.073
0.00682	0.76382	1406.852	1068.11	-1.12633	0.27609	0.88784	1199.526	1071.211
0.23792	1.1279	3904.153	4443.393	1.39325	6.79E-09	1.39325	3479.954	4849.378
0.01319	1.19114	1347.345	1603.084	1.25089	4.79E-06	1.25089	1638.703	2050.178
0.12148	1.10736	2007.43	2223.417	-1.1748	0.00973	0.85121	2129.544	1819.933
0.95655	0.99731	1019.563	1016.65	-1.08541	0.24025	0.92131	974.2116	896.1131
0.94318	1.00414	7817.193	7872.666	-1.52496	2.40E-21	0.65576	7053.575	4625.952
0.29226	0.73645	398.7393	273.682	2.12372	7.48E-06	2.12372	418.571	904.8187
0.96978	0.9888	131.4125	132.5934	2.72094	0.00001	2.72094	129.8332	359.626
0.4594	1.03605	2781.548	2879.686	-1.21713	6.25E-06	0.82161	3337.461	2743.007
0.81311	0.84911	49.48865	41.33267	1.02877	0.97002	1.02877	55.46857	56.35043
0.00006	0.77271	3463.296	2680.06	1.56766	6.20E-06	1.56766	2602.264	4083.472
0.61324	0.82623	122.6122	105.1449	-1.34712	0.30922	0.74232	179.0164	134.6561
0.00153	0.70338	874.2312	609.7372	-1.04799	0.57908	0.9542	740.4162	708.1727
0.34063	0.90782	465.3807	424.5383	-1.06961	0.6489	0.93492	328.2757	309.1487
0.01481	1.17929	1737.157	2044.513	1.11231	0.07227	1.11231	1932.941	2157.635
0.54672	0.95875	1492.585	1431.001	1.56765	4.30E-11	1.56765	1307.188	2047.491
0.61653	0.9324	415.2936	389.2311	-1.29398	0.03221	0.77281	367.4072	284.583
0.5917	1.0633	3979.569	4231.477	-1.17226	0.00305	0.85305	3882.109	3309.6
0.12069	1.11506	593.348	662.7015	1.14553	0.06874	1.14553	711.4519	813.5728
0.0629	1.1322	2457.77	2797.384	-1.18675	0.01628	0.84264	3925.988	3322.084
0.27451	0.9289	4618.314	4312.297	1.65524	1.56E-15	1.65524	4620.168	7659.411
1	1	18.37162	23.69896	1	1	1	18.01394	30.49303
0.71554	0.71038	38.54679	27.25078	1.17442	0.90588	1.17442	22.1254	35.52625
0.00002	0.80165	2194.011	1759.391	1.41428	0.00373	1.41428	1730.093	2434.267
0.01153	1.14645	1359.764	1556.076	1.01029	0.84038	1.01029	1546.951	1563.46
1	1	18.02332	23.86116	1	1	1	18.71008	31.29617

0.7074	0.97182	5876.529	5759.362	-1.01574	0.82437	0.9845	5391.136	5272.982
0.11328	0.89391	2126.477	1905.098	-1.14176	0.00858	0.87584	2857.386	2504.984
0.28077	1.06874	608.478	650.4145	1.45282	9.87E-07	1.45282	953.0437	1387.086
0.89128	1.01814	815.4542	823.9557	1.80472	0.00029	1.80472	681.8833	1257.174
0.38318	0.79524	247.7067	188.2552	-1.01516	0.92878	0.98507	265.0912	262.8836
0.11768	0.74775	890.7493	670.5568	-1.86343	5.47E-06	0.53665	513.5996	277.2193
0.01479	1.21953	1667.5	2049.02	1.30434	0.00044	1.30434	1866.634	2444.293
0.60493	1.07518	2173.187	2338.474	1.12465	0.43903	1.12465	1768.495	2031.868
0.74707	0.97568	1638.554	1607.692	-1.15012	0.15824	0.86948	1761.09	1516.584
0.16755	0.86335	1423.282	1225.784	1.18328	0.0949	1.18328	1257.241	1488.953
0.05901	1.10716	2292.979	2534.006	1.00713	0.88265	1.00713	2446.912	2461.308
0.00379	0.67512	692.2932	461.1592	-1.07622	0.41887	0.92918	558.3447	520.1101
0.31834	1.10185	4175.842	4634.099	-1.36242	0.00912	0.73399	4933.353	3588.416
0.65052	1.04539	586.1367	609.3573	1.09051	0.24148	1.09051	558.6075	609.4907
0.30163	0.89273	89474.55	79691.19	-1.78383	4.15E-11	0.56059	108095.8	60572.29
0.06567	0.84993	6620.252	5642.771	-1.07325	0.22284	0.93175	5092.947	4735.141
0.00218	0.75216	1785.792	1343.936	1.01808	0.78427	1.01808	1247.536	1267.681
0.49948	1.03812	2622.627	2719.007	-1.01115	0.80785	0.98897	2961.048	2930.504
0.52554	1.03795	1169.433	1211.347	-1.13174	0.01426	0.88359	1302.712	1150.637
0.86523	1.03975	188.2507	193.7233	1.17857	0.54473	1.17857	176.4429	208.7417
0.60849	1.08584	4872.286	5472.986	1.25769	0.00284	1.25769	4498.327	5648.083
0.82601	1.01329	1147.07	1158.84	1.03906	0.4859	1.03906	1452.901	1510.366
0.63737	1.05171	1020.939	1066.179	1.23172	0.07671	1.23172	907.8674	1126.009
0.01292	0.69299	624.6725	426.4791	1.84275	2.84E-12	1.84275	409.0227	752.3586
0.94301	0.99578	2675.78	2649.986	-1.02199	0.66582	0.97848	2568.764	2518.163
0.21293	0.92741	972.8547	901.5869	1.18387	0.00359	1.18387	768.2761	909.428
0.01336	1.13794	900.096	1024.744	-1.02216	0.67691	0.97832	1105.34	1081.867
0.37918	0.87718	424.4127	367.3442	-1.17549	0.22491	0.85071	345.5461	295.1749
0.01034	0.71988	7099.02	5094.439	1.35935	0.00112	1.35935	5737.005	7845.313
0.82315	0.98711	755.4689	746.2189	1.01856	0.8226	1.01856	773.6799	786.1125
0.31671	0.95921	3463.21	3322.041	3.54032	0	3.54032	3162.831	11200.4
0.3795	1.05862	727.3251	769.0135	1.18075	0.05567	1.18075	776.7979	915.2393
0.97406	1.00226	846.0075	850.3373	-1.35742	0.00134	0.73669	696.3334	514.6295
0.00506	0.62864	685.0961	421.7212	1.13953	0.47978	1.13953	436.3674	503.2806
0.89984	0.98006	288.1635	279.6776	1.15862	0.3576	1.15862	243.6578	283.8029
0.00914	0.68581	594.8781	401.2492	1.04779	0.62195	1.04779	449.3267	469.846
0.15393	1.0941	3187.134	3498.009	-1.21819	0.01765	0.82089	3823.778	3136.315
0.97422	1.00241	1885.237	1887.102	2.5122	2.49E-35	2.5122	1751.236	4400.487
0.23601	0.84507	323.6335	271.1433	-1.07208	0.63195	0.93277	264.4543	247.2939
0.20696	1.06865	1226.583	1309.061	1.02578	0.62632	1.02578	1760.683	1806.409
1	1	18.44699	23.73984	1	1	1	20.26761	32.04658
0.04815	1.08612	2448.998	2660.052	1.09615	0.03027	1.09615	2861.265	3136.673
0.79773	1.01896	826.7683	843.8485	1.02557	0.63097	1.02557	1860.146	1904.959
0.68839	0.85589	90.3433	76.83654	-1.00447	0.99007	0.99555	124.4863	122.3631
0.31949	1.04877	2089.894	2194.357	-1.01805	0.733	0.98227	2278.524	2237.844
0.06304	1.08449	2278.88	2470.395	-1.28412	0.00001	0.77875	2564.394	1991.751
0.99764	1.00022	8241.786	8320.602	-1.14837	0.05326	0.8708	7950.226	6864.862
0.00758	1.15716	732.6388	848.1256	1.15814	0.02989	1.15814	868.6206	1005.295
0.17521	1.0939	947.0322	1039.214	-1.08524	0.16388	0.92145	2041.249	1884.648
0.40186	1.0654	2247.681	2380.848	1.06545	0.22631	1.06545	2403.821	2563.628
0.37807	1.04855	5413.531	5686.04	-1.03679	0.51936	0.96451	5748.581	5538.853
0.95781	1.0043	918.5766	926.8827	-1.2249	0.04316	0.81639	794.7709	651.3699

0.88873	1.00963	986.3118	998.6843	-1.08908	0.25584	0.91821	862.2079	790.6075
0.81037	1.06881	143.4116	150.1465	2.97275	2.05E-10	2.97275	139.5194	412.2135
0.50896	1.05631	963.1862	1015.145	1.01062	0.84074	1.01062	1373.738	1386.932
0.03799	0.71018	7247.456	5125.86	-1.00923	0.949	0.99086	6207.927	6184.496
0.90763	1.10563	32.03592	35.56206	1.15545	0.90475	1.15545	26.80817	37.59825
0.56206	0.79968	117.67	91.62728	1.46755	0.14182	1.46755	127.8773	185.9887
0.83453	0.98509	1082.75	1061.465	1.02508	0.74546	1.02508	994.4387	1015.611
0.22563	0.85719	472.0976	400.7553	1.19946	0.05241	1.19946	399.6961	478.6727
0.16949	0.88675	2316.579	2057.881	1.36517	0.00051	1.36517	1874.931	2550.929
1	1	18.34085	22.7072	1	1	1	18.16762	31.31447
0.15613	1.14694	1060.574	1227.219	-1.24663	0.00036	0.80216	1085.776	869.8616
0.43894	0.89595	1384.791	1242.292	-1.51046	0.00002	0.66205	1087.07	715.6672
0.014	0.646	24051.75	15116.92	1.30145	0.02972	1.30145	16792.51	22049.91
0.95912	1.00461	6856.552	6966.218	-1.12531	0.00742	0.88864	6654.384	5915.246
1	1	21.07206	23.53209	1	1	1	17.23563	31.34705
0.10713	1.26458	55388.2	69579.6	-2.13927	4.64E-06	0.46745	81980.63	37446.38
0.28067	0.92695	802.6172	742.5771	-1.05547	0.44751	0.94745	847.8314	803.8754
0.92346	0.95311	62.43694	60.17851	-1.03216	0.94328	0.96884	84.1983	81.68884
0.30678	0.91711	885.629	815.7634	-1.08437	0.50106	0.92219	592.2413	550.205
0.94182	1.00504	1716.641	1728.415	-1.04898	0.36768	0.95331	1633.768	1557.64
0.00106	1.30836	3385.586	4457.449	1.78094	3.08E-34	1.78094	3080.198	5486.153
0.82709	0.94589	8299.508	7865.794	1.4497	0.08048	1.4497	6333.583	9670.972
0.0261	0.8897	44034.27	39085.63	-1.37028	0.00035	0.72978	45703.57	33244.15
0.31735	0.91163	597.5314	547.2822	1.05438	0.52807	1.05438	540.3948	568.7747
0.11303	1.08983	7371.827	8022.925	-1.57749	1.85E-15	0.63392	9220.584	5828.658
0.46798	1.04926	2100.786	2195.687	-1.04234	0.32926	0.95938	2561.828	2457.979
0.87498	0.98974	8628.3	8564.804	1.4629	1.77E-06	1.4629	8097.306	11865.05
0.1629	0.84393	499.0343	424.9641	1.31627	0.00606	1.31627	455.2532	597.1466
0.46058	1.18833	137.4173	161.8371	-1.1405	0.6091	0.87681	143.624	126.1154
0.88029	0.9756	241.6642	237.7485	-1.04355	0.72852	0.95827	297.1241	285.0928
0.54169	0.90211	6680.688	5901.532	-2.65133	7.93E-36	0.37717	7183.529	2694.233
0.44327	1.08451	602.9388	649.4275	1.43252	5.17E-06	1.43252	493.101	707.2595
0.43028	1.10156	1609.907	1773.413	1.00998	0.84796	1.00998	4139.621	4195.369
0.37479	1.06425	2262.992	2408.994	1.19214	0.00977	1.19214	2305.121	2757.793
0.00847	0.74297	9892.477	7343.98	-1.01069	0.9223	0.98942	8312.705	8225.379
0.44802	1.04213	813.7493	848.3085	-1.12939	0.03646	0.88544	860.0501	761.7401
0.80459	1.03808	573.7274	604.426	-1.13867	0.14231	0.87822	452.0049	397.2825
0.50831	1.07461	2794.117	3039.275	1.80107	1.49E-06	1.80107	3069.143	5532.928
0.01778	1.1453	4922.887	5654.196	-1.22317	0.00255	0.81755	5937.592	4831.613
0.00005	0.7708	4116.066	3177.881	-1.71953	3.97E-31	0.58156	3712.044	2158.695
0.1573	1.34328	745.9219	1000.923	2.7675	3.21E-07	2.7675	645.1082	1873.641
0.00374	1.14116	5671.262	6463.667	-1.81808	4.31E-11	0.55003	6485.439	3528.063
0.40928	1.0785	526.5781	568.2015	-1.04648	0.55228	0.95559	1401.29	1342.677
0.80753	1.02143	796.627	809.9404	-1.01909	0.80451	0.98127	742.5164	729.916
0.00532	1.14717	1161.035	1331.69	1.33571	0.00067	1.33571	1157.702	1541.036
0.19657	1.11692	1611.137	1808.619	-1.00251	0.97931	0.99749	1758.078	1758.559
0.38346	0.88623	2935.549	2606.469	-1.53218	0.00013	0.65267	2243.414	1463.093
0.23363	1.17716	494.6667	575.7004	1.39564	0.00173	1.39564	451.4271	632.7726
0.24237	0.93452	1247.487	1165.486	1.12665	0.14227	1.12665	1110.492	1250.93
0.00443	1.13959	3838.67	4374.668	-1.05118	0.35284	0.95131	4534.106	4304.92
0.47609	1.15225	165.2134	189.7768	1.26904	0.36572	1.26904	129.0756	162.9045
0.0006	0.86943	9960.582	8659.877	1.11121	0.03409	1.11121	9263.464	10292.73

0.44387	0.95322	765.9626	729.5257	1.01987	0.77	1.01987	704.4428	719.033
0.06521	1.18399	417.7631	493.1121	-1.0879	0.5188	0.9192	375.9377	347.3502
0.42392	1.08152	338.3312	365.8735	1.07183	0.58366	1.07183	360.2023	383.9804
0.92458	1.0047	1697.693	1707.603	-1.0927	0.14096	0.91516	1795.45	1645.015
0.44204	0.95914	1021.275	980.2932	1.04647	0.5467	1.04647	1098.615	1153.785
0.01035	1.18648	1516.995	1797.981	1.05959	0.34051	1.05959	2203.129	2319.701
0.00919	0.84198	934.7946	788.0933	1.16862	0.05231	1.16862	820.5648	956.7406
0.63024	0.82657	96.71564	80.09721	1.11812	0.84747	1.11812	64.24384	72.02167
0.00002	0.68914	1242.772	855.2354	1.34863	0.00123	1.34863	926.5875	1246.118
0.52338	1.0959	1180.023	1313.953	-1.36552	0.00006	0.73232	1076.387	789.2827
0.9113	1.00877	419.9598	423.3308	1.15925	0.0833	1.15925	412.4763	478.3054
0.11034	1.09543	928.4024	1016.459	1.35551	1.89E-08	1.35551	853.4349	1156.677
0.93999	1.07589	39.47723	43.53741	1.09709	0.93837	1.09709	38.69595	38.87516
0.93553	0.99599	1525.024	1519.14	-1.1823	0.01104	0.84581	1282.965	1084.134
0.12708	1.13893	5945.137	6798.818	1.00487	0.94754	1.00487	6056.091	6111.832
0.22103	1.0662	4278.088	4567.535	-1.12419	0.04085	0.88953	5061.709	4526.946
0.67135	0.95109	409.8395	387.0438	-1.22738	0.15058	0.81474	389.5894	319.8142
0.81538	1.01445	1415.607	1430.317	-1.03684	0.54136	0.96447	1527.068	1469.634
0.82623	1.00919	2976.383	3004.091	-1.07737	0.17421	0.92819	3127.456	2899.935
0.64365	0.96114	876.741	845.3101	-1.29057	0.00126	0.77485	701.1834	542.836
0.92007	0.9918	1803.601	1788.596	1.0925	0.05248	1.0925	1623.036	1772.794
0.86718	1.01276	3765.916	3805.586	1.11113	0.01929	1.11113	3555.709	3950.894
0.26152	1.07182	3968.299	4261.088	-1.40941	1.18E-14	0.70951	3700.834	2625.322
0.55874	0.951	1057.238	1010.084	-1.04118	0.62511	0.96045	989.0982	947.6436
0.00014	0.54997	410.0513	222.5859	-1.35501	0.12733	0.738	283.9912	207.7726
0.99524	1.00117	262.5896	266.2979	-1.19071	0.52704	0.83983	187.3539	160.7085
0.3328	0.95199	978.0626	930.772	1.07909	0.35159	1.07909	945.6102	1017.34
0.97871	0.99499	536.8718	521.7001	1.44736	0.07214	1.44736	460.0634	685.9204
0.58587	1.06334	917.4695	971.9417	1.52999	3.61E-09	1.52999	795.7903	1219.89
0.75971	0.98044	3779.432	3696.958	-1.08596	0.09948	0.92085	3493.97	3225.683
0.21794	0.93995	4287.555	4038.005	-1.16637	0.01047	0.85736	4405.959	3772.222
0.0002	0.55686	5628.291	3062.518	1.04184	0.76231	1.04184	4312.206	4521.724
0.73214	1.04058	542.9075	560.0631	-1.29096	0.0015	0.77462	582.7031	450.9126
0.55005	0.91313	2944.94	2726.741	-1.31615	0.00232	0.75979	2425.979	1840.677
0.81581	0.98984	2068.366	2048.058	-1.0596	0.26713	0.94376	1980.761	1869.182
0.3866	0.87651	8109.491	6936.671	-1.37138	3.57E-06	0.72919	6019.24	4378.225
0.66026	0.94189	660.837	615.3377	1.33621	0.00031	1.33621	675.3932	904.4916
0.095	1.09598	1578.22	1733.985	-1.04334	0.42575	0.95846	1563.314	1497.877
0.13713	1.11501	7379.433	8209.634	-1.15204	0.00252	0.86803	8399.451	7286.198
0.00454	1.22859	6432.23	7861.322	-2.57128	1.04E-15	0.38891	9705.218	3696.419
0.13186	1.06425	2962.677	3153.154	-1.01215	0.81206	0.988	2850.184	2813.375
0.54884	1.06395	288.5281	307.0196	1.1725	0.19966	1.1725	329.7466	386.0017
0.471	0.93703	824.3624	776.233	1.59066	9.91E-15	1.59066	1443.693	2293.841
0.0125	0.82969	2253.767	1861.45	-1.01075	0.93049	0.98936	2240.272	2220.935
0.44987	1.05924	576.6668	609.5938	1.36645	0.0006	1.36645	479.4232	653.4723
1	1	19.0939	22.88225	-1.18133	0.87932	0.84651	33.50989	33.91428
0.01555	0.89046	1714.209	1527.221	1.01371	0.86342	1.01371	1627.558	1645.337
0.48109	1.05256	876.0297	919.9718	-1.18419	0.04936	0.84446	889.1675	753.2259
0.95548	1.0102	237.057	243.0399	9.84364	0	9.84364	261.287	2572.939
0.1147	0.89206	2428.995	2185.295	-1.05206	0.45812	0.95052	2902.918	2758.998
0.9694	1.01123	152.959	156.3834	1.26074	0.17183	1.26074	239.008	303.9481
0.38113	1.05121	1041.87	1093.554	-1.0132	0.81932	0.98697	1120.824	1107.347

0.36221	0.77464	238.2322	173.5526	-1.04416	0.77877	0.95771	260.4977	248.9079
0.80467	1.01854	537.4277	547.332	-1.11305	0.50076	0.89843	467.6791	416.0042
0.96805	1.00844	197.2974	197.2939	-1.18612	0.39034	0.84308	204.0049	172.0589
0.00235	1.33918	643.1964	864.0486	-1.14427	0.29637	0.87392	1488.65	1295.15
0.74554	0.85691	83.71055	70.03035	1.32477	0.45942	1.32477	80.79288	107.419
0.93813	0.9929	347.9905	345.8586	1.02901	0.75262	1.02901	380.9829	391.8748
0.74321	0.98586	2481.562	2447.608	-1.10626	0.05518	0.90394	2166.112	1954.25
0.27089	1.11053	1109.872	1234.1	1.3468	0.00015	1.3468	916.0584	1231.449
0.2599	1.05284	1344.129	1415.336	-1.02666	0.60241	0.97403	1342.441	1307.628
0.50062	0.85602	185.6667	156.7224	1.08481	0.78352	1.08481	145.1339	158.3406
0.94513	1.00357	1317.397	1322.986	-1.04236	0.42519	0.95936	1326.894	1273.41
0.11763	1.10381	835.7925	921.1292	1.06076	0.35894	1.06076	937.0142	992.4158
0.87708	1.05203	97.38301	103.2997	1.00952	0.97845	1.00952	123.1854	122.0694
0.00004	1.37694	651.449	895.1158	1.29459	0.00016	1.29459	596.5196	771.8571
0.85834	1.01079	1037.503	1046.254	1.04089	0.50246	1.04089	986.1705	1025.389
0.15177	1.1085	4964.853	5513.677	-1.62668	9.37E-08	0.61475	5865.926	3568.231
0.92145	1.00877	431.5234	434.8511	1.00144	0.98025	1.00144	734.5309	735.5598
0.08015	0.80831	17934.9	14585.74	1.01658	0.83362	1.01658	16857.98	17151.6
0.03474	0.88322	1269.755	1120.64	1.76578	5.59E-15	1.76578	1112.206	1961.091
0.25136	1.08385	3352.145	3652.548	1.04553	0.31743	1.04553	3643.694	3809.991
0.64771	0.90173	218.2935	193.4179	1.23906	0.22367	1.23906	189.7322	235.885
0.33809	0.94131	7242.326	6847.917	1.08432	0.15222	1.08432	9077.155	9818.514
0.49399	1.06848	710.554	755.7276	1.93556	1.81E-14	1.93556	643.1523	1249.529
0.00156	0.81627	2498.6	2038.731	-1.05246	0.44378	0.95015	2159.196	2047.317
0.2351	0.90444	775.1473	704.2113	-1.03183	0.63058	0.96916	590.6998	572.4561
0.79327	0.97406	1067.918	1035.495	1.16745	0.09016	1.16745	967.8914	1132.932
0.5392	0.89796	498.6344	453.0939	-1.3311	0.01281	0.75126	346.1693	260.1374
0.31778	0.93537	5704.585	5349.898	1.34015	1.99E-10	1.34015	4789.388	6417.928
0.2222	1.076	1158.427	1249.886	1.11196	0.04664	1.11196	1175.436	1307.051
0.40304	1.06289	644.0163	683.066	-1.20659	0.01651	0.82878	778.6644	644.1384
0.6237	0.94697	7501.687	7067.827	-1.63226	1.22E-15	0.61265	7087.991	4346.688
0.62578	0.97873	3806.785	3727.273	-1.02468	0.72992	0.97591	4459.7	4428.286
0.53974	1.02936	1249.827	1286.122	-1.09301	0.18185	0.91491	1367.727	1250.22
0.30648	1.08175	475.6706	513.941	-1.00868	0.92179	0.9914	405.7374	402.4326
0.73355	0.95391	3244.103	2999.767	2.09229	2.11E-08	2.09229	2759.556	5934.189
0.84868	0.96855	339.601	332.9888	-1.36123	0.03939	0.73463	276.4814	203.5254
0.73769	0.96664	602.6223	586.1881	-1.2402	0.09239	0.80632	525.8522	426.9406
0.59834	1.02731	1730.62	1779.662	1.002	0.96189	1.002	2955.564	2961.588
0.50711	0.89521	276.1987	247.0233	1.00191	0.98979	1.00191	272.8304	274.4433
7.69E-15	1.51162	1033.077	1561.431	2.22769	3.84E-16	2.22769	1283.005	2890.907
0.00808	1.14531	1032.291	1183.094	1.06625	0.24885	1.06625	1240.877	1323.014
0.68117	1.0389	860.3989	893.196	-1.07812	0.25818	0.92754	723.6444	671.6624
0.86658	0.98374	5841.012	5728.718	-1.48488	2.62E-14	0.67346	5655.236	3807.454
0.98572	1.0018	937.8506	935.5454	1.26517	0.00009	1.26517	908.4137	1148.479
0.13859	0.88068	1458.333	1283.184	1.36736	0.00055	1.36736	1429.695	1955.47
0.92023	0.90111	31.42828	29.04	1	1	1	28.0489	33.82122
0.01541	1.19635	1559.67	1867.063	1.53035	4.48E-10	1.53035	1443.089	2206.362
0.96136	1.00684	241.1369	241.9815	1.63473	0.00225	1.63473	203.3996	334.325
0.71234	1.57908	27.61181	41.15745	1.67364	0.50052	1.67364	34.94653	58.48526
0.00233	0.59686	1216.692	709.5755	-1.25377	0.07777	0.79759	1021.508	816.6399
0.17429	0.85934	1404.125	1201.554	1.24984	0.03458	1.24984	1257.182	1582.261
0.85759	0.98816	531.7379	525.2811	-1.21405	0.07103	0.82369	467.776	386.3273

0.9453	1.01104	894.828	917.7502	-2.79258	1.87E-18	0.35809	642.5234	230.7052
0.99388	0.99942	2578.038	2574.45	-1.14734	0.06502	0.87158	2781.055	2426.215
0.44738	1.07546	34193.63	36803.65	-1.06651	0.27542	0.93764	36917.32	34649.52
0.79867	0.97126	5563.45	5480.71	-1.23526	0.00406	0.80955	5807.788	4687.263
0.30437	1.09577	419.8105	458.8189	1.19521	0.01471	1.19521	500.5084	597.8746
0.62394	1.03062	763.5084	787.9291	1.13241	0.15764	1.13241	657.6581	742.5482
0.99024	0.99876	3921.203	3930.022	-1.1379	0.03268	0.87881	3681.915	3230.562
0.68802	1.03876	1784.419	1874.237	1.02957	0.73879	1.02957	1596.063	1655.008
0.56381	1.03707	2814.465	2897.646	-1.05942	0.3133	0.94391	2834.517	2686.226
0.61445	1.02975	716.9937	738.6335	-1.08879	0.31287	0.91845	731.0274	669.5825
0.8876	0.99105	1485.49	1472.196	1.14523	0.07366	1.14523	1591.342	1819.764
1	1	19.24329	23.29307	1	1	1	17.86304	28.09712
0.67654	0.97424	2414.633	2342.42	-1.03224	0.58676	0.96876	2452.378	2381.585
0.10237	1.14673	1250.921	1431.983	-2.34762	1.46E-25	0.42596	1333.099	568.3861
0.288	0.87608	5392.854	4674.868	-1.15164	0.00181	0.86833	5808.24	5042.568
0.45698	0.93048	3664.104	3428.748	-1.16452	0.14373	0.85872	3471.123	2989.26
0.30357	0.79311	276.3246	214.1073	1.21257	0.2462	1.21257	212.9191	258.7991
0.08264	1.14208	1791.635	2027.153	-1.09949	0.05225	0.90951	2740.438	2490.606
0.45168	1.08394	764.6802	823.5125	1.0274	0.70772	1.0274	697.97	717.9037
0.05632	1.13207	2274.663	2572.422	-1.4198	0.00007	0.70432	3109.371	2174.863
0.82296	0.96752	311.7207	300.2998	1.2374	0.15484	1.2374	255.3052	315.749
0.00263	0.72018	1066.51	763.5148	-1.17869	0.03459	0.8484	860.1039	731.3769
0.58554	0.95807	1154.475	1113.022	-1.11311	0.15657	0.89838	1080.646	969.5753
0.14453	1.08307	8776.723	9497.567	-1.02755	0.50082	0.97319	9564.129	9307.32
0.88635	1.01902	480.8273	484.0703	1.00999	0.92039	1.00999	447.1646	450.7813
0.78193	1.03113	2072.749	2158.359	1.95875	2.18E-23	1.95875	1771.022	3475.222
0.00217	0.61947	399.7247	244.67	-1.51365	0.00239	0.66066	327.2216	216.235
0.32702	0.75205	274.5574	196.2657	1.00188	0.99302	1.00188	203.8604	205.9795
0.53579	1.0392	8614.45	8998.506	-1.10985	0.17445	0.90102	9602.718	8659.389
0.69822	1.06207	330.2977	355.9565	1.03378	0.77751	1.03378	1014.017	1043.443
0.20709	1.06292	2237.684	2376.134	-1.02771	0.59216	0.97303	2456.08	2388.392
0.50429	1.08598	465.7769	511.1944	-1.83539	0.0024	0.54484	665.6671	362.6851
0.525	1.04037	11198.23	11688.04	-1.06887	0.32096	0.93557	12180.61	11358.51
0.20335	0.929	8549.461	7923.47	-1.02257	0.63449	0.97793	8049.298	7872.456
0.56969	1.07921	280.5302	302.2766	1.09046	0.61373	1.09046	261.8063	284.5599
0.69869	1.05511	3062.225	3204.305	-1.30249	0.01602	0.76776	5820.837	4587.67
0.64503	1.05535	508.626	531.8942	1.14948	0.04631	1.14948	775.1852	891.4891
0.00642	0.65441	14446.3	9402.574	-1.04168	0.63682	0.95999	11081.77	10666.63
0.80366	0.95612	194.1684	184.9005	1.51283	0.07615	1.51283	180.7078	268.6864
0.24902	0.8731	5749.265	5062.274	1.06879	0.5226	1.06879	7281.645	7744.554
8.05E-06	0.72727	1865.453	1354.565	1.30507	4.98E-09	1.30507	1465.346	1912.387
0.91028	1.0881	41.1014	44.63615	-1.04281	0.97263	0.95895	25.85542	31.81091
0.19962	1.15989	383.1064	444.603	1.02719	0.75682	1.02719	519.4133	532.5991
0.79705	1.01811	3350.125	3433.902	-1.11707	0.03069	0.8952	3171.328	2836.169
0.00665	1.15366	2878.849	3318.332	-1.31165	0.0004	0.7624	4002.623	3041.201
0.14713	0.93365	1816.642	1695.727	1.16774	0.01752	1.16774	1784.49	2084.487
0.27899	1.10385	573.2412	629.897	1.34907	4.17E-07	1.34907	774.5651	1045.209
0.01269	0.85384	975.0707	833.8843	1.03227	0.68167	1.03227	957.5936	989.1168
0.79272	0.97777	692.1954	679.6131	1.00306	0.97002	1.00306	666.1508	667.5975
0.6516	1.02545	2196.074	2249.538	1.04349	0.42925	1.04349	1986.865	2075.475
0.11899	1.11402	1417.038	1569.82	1.05003	0.30887	1.05003	3601.248	3779.807
0.68763	0.96415	22595.08	21790.57	1.40257	6.36E-07	1.40257	22780.16	31975.46

0.00204	0.86518	1608.414	1391.574	1.15465	0.01688	1.15465	1419.449	1638.251
0.66104	0.96675	578.7025	558.1044	-1.02446	0.8137	0.97612	537.8528	524.2407
0.99405	0.99939	724.2871	726.1196	-1.31979	0.00006	0.7577	622.866	471.9756
0.12955	1.15519	4950.103	5487.972	-1.40451	1.09E-12	0.71199	6092.865	4345.139
0.78186	0.81437	43.50391	35.66043	1.13684	0.84773	1.13684	47.47016	54.41715
0.71426	1.0267	1330.527	1358	-1.04306	0.4097	0.95872	1221.583	1170.766
0.01994	0.87026	1206.506	1049.718	1.26066	0.0075	1.26066	1406.342	1771.453
1.45E-07	0.60242	1237.536	742.4592	1.21486	0.1443	1.21486	834.0391	1008.171
0.19108	1.09546	5413.899	5893.667	1.09932	0.03438	1.09932	5509.502	6062.733
0.38185	1.11911	398.2892	450.7135	1.05937	0.4709	1.05937	605.9681	640.7941
0.17023	1.07495	8577.482	9253.352	-1.00339	0.96142	0.99662	8812.063	8787.24
0.47707	1.11421	388.1593	427.6733	1.08993	0.42581	1.08993	450.3485	492.7971
0.02737	1.10331	3320.824	3661.542	1.03785	0.49825	1.03785	3691.105	3824.871
0.57064	1.0367	2272.652	2355.544	1.63414	1.24E-12	1.63414	2260.039	3689.252
0.13932	1.36184	204.3069	270.6567	1.88105	0.00016	1.88105	226.1299	428.3757
0.09249	1.08722	3233.593	3520.145	1.02507	0.63238	1.02507	3428.275	3515.236
0.12492	0.58067	150.643	85.8143	1.34695	0.41525	1.34695	91.77129	123.3627
0.8768	1.01043	677.7505	685.2061	1.2202	0.08377	1.2202	697.0328	846.3593
0.85151	1.01918	3099.602	3135.316	1.01268	0.87277	1.01268	3273.653	3318.29
0.91349	0.94913	71.23895	68.69951	1.02199	0.96542	1.02199	63.58775	65.07265
0.48952	0.95803	7446.765	7135.481	1.17408	0.00034	1.17408	6810.764	7997.125
0.58312	0.96062	936.6428	898.6256	-2.35002	2.14E-17	0.42553	820.9132	350.3088
0.00011	0.70921	52411.05	37397.01	-1.83909	5.10E-22	0.54375	61052.52	33025.52
0.70155	1.01692	2667.822	2714.2	-1.04477	0.33074	0.95715	2859.172	2736.362
0.93793	0.99389	737.184	730.0537	-1.05485	0.46903	0.948	600.9728	569.2663
0.22692	0.90653	629.0764	568.4036	1.07703	0.34371	1.07703	565.5975	609.7327
0.91581	1.00706	4595.594	4643.58	-1.02923	0.6215	0.9716	4581.768	4448.403
0.59696	1.09094	209.7041	229.3757	-1.17416	0.61548	0.85167	125.6225	106.2194
0.17173	0.84941	409.2581	349.712	1.18196	0.29917	1.18196	338.3445	397.0845
0.20974	1.10019	969.7076	1073.343	1.22057	0.0001	1.22057	1085.672	1324.651
1	1	18.55079	23.74072	1	1	1	17.99619	32.94724
0.75579	0.96889	920.0642	886.0027	1.10047	0.14229	1.10047	928.532	1023.519
0.82336	1.02712	335.9531	343.2888	-1.02932	0.81669	0.97151	303.8167	295.4379
0.01479	1.11292	1471.767	1637.862	1.08966	0.21011	1.08966	1719.025	1873.493
0.43386	1.07331	966.6259	1032.169	1.07147	0.474	1.07147	1046.369	1130.57
0.80066	1.03131	322.412	330.7147	1.10779	0.40097	1.10779	285.7919	316.4502
0.00571	0.85079	2070.395	1761.991	2.80589	0	2.80589	1716.293	4815.38
0.0738	0.85895	7269.735	6240.117	-1.22135	0.00002	0.81876	6865.74	5626.933
0.03231	1.25711	702.2864	890.1708	1.31418	0.00546	1.31418	550.5141	720.7736
0.15321	1.06115	4816.106	5111.659	-1.05586	0.32255	0.9471	4645.781	4405.339
0.83975	0.97874	642.9364	628.7617	1.01965	0.84204	1.01965	638.479	653.644
0.00372	0.63029	1778.725	1099.924	-1.78725	0.00003	0.55952	1279.555	717.2134
0.00066	0.68356	7092.462	4879.399	1.38361	5.44E-08	1.38361	5250.376	7281.566
0.69352	1.04571	573.3842	594.7833	1.02393	0.74156	1.02393	578.7058	592.1162
0.29176	1.17381	201.7725	237.6646	-1.02217	0.93872	0.97831	162.086	156.6517
0.29913	1.05765	1261.963	1334.751	1.26482	7.56E-06	1.26482	1247.432	1578.182
0.66781	0.94917	402.7848	385.296	1.60376	0.00605	1.60376	351.3768	555.5222
0.02657	0.85895	1035.232	887.6329	-1.1508	0.10635	0.86896	805.1406	701.3445
0.48053	0.93376	635.0753	596.3594	-1.1108	0.26164	0.90026	558.0126	500.9478
0.24518	1.06266	3277.022	3482.443	1.49844	9.00E-07	1.49844	2874.626	4309.032
0.54482	1.05115	5695.299	5991.853	1.24614	0.00023	1.24614	5803.507	7226.959
0.88633	0.97774	211.6619	206.2393	1.01192	0.92196	1.01192	400.938	403.609

0.00213	0.81131	2057.582	1668.885	-1.09275	0.17179	0.91512	1805.284	1652.484
0.06986	1.09088	2735.962	2991.332	1.02776	0.61987	1.02776	4596.527	4736.127
0.45567	0.91959	845.3872	771.7785	1.9765	4.45E-27	1.9765	784.6174	1551.268
4.60E-06	0.75382	5034.405	3790.813	-1.18928	0.0004	0.84085	4317.048	3630.032
0.8753	0.98881	459.6475	454.5441	-1.18398	0.11075	0.84461	423.4507	357.0994
0.76346	1.03001	1210.94	1244.193	1.03937	0.43787	1.03937	1285.248	1335.604
0.79432	1.04846	365.9754	374.3921	1.13118	0.31621	1.13118	296.3773	335.6206
0.04219	1.11314	1082.894	1206.023	1.10177	0.15949	1.10177	1094.681	1203.467
0.01685	1.14024	1317.938	1503.32	1.16719	0.01359	1.16719	1469.677	1711.783
0.84274	0.9681	326.5646	311.2966	1.01963	0.89763	1.01963	286.9958	294.1007
0.96422	1.00553	561.6569	559.968	1.1065	0.30074	1.1065	603.3556	669.891
0.92514	1.07213	57.74096	64.24896	-1.24732	0.81546	0.80172	49.74632	39.30991
0.98194	0.99631	458.8554	448.2792	1.23346	0.10968	1.23346	444.6415	552.8109
0.36524	0.87467	3501.995	3063.642	-1.6187	0.00009	0.61778	3064.505	1893.191
0.08895	1.11255	9024.297	10011.85	-1.1404	0.03659	0.87688	8094.015	7048.563
0.32966	1.12108	288.6349	324.7497	-1.15159	0.299	0.86836	319.7579	278.21
0.44511	0.9588	8567.668	8218.617	-1.38798	5.92E-11	0.72047	8660.216	6238.402
0.94797	1.0189	107.8588	109.3229	1.30531	0.4066	1.30531	89.78939	117.0063
0.32235	0.82756	524.1212	442.4912	-1.33724	0.11561	0.74781	370.4793	280.4394
0.03104	1.19034	1794.916	2109.169	2.66856	0.00006	2.66856	1896.605	5581.938
0.22916	1.09701	779.9288	859.1617	1.06843	0.4012	1.06843	871.1402	928.2103
0.86073	0.97973	2793.056	2736.445	1.09156	0.06326	1.09156	4069.597	4445.227
0.5178	0.93742	1362.949	1275.192	1.41232	3.67E-09	1.41232	1219.995	1725.173
0.12736	1.11308	500.4179	556.4799	1.032	0.7224	1.032	503.6682	518.7891
0.88036	0.98655	916.1024	897.7105	-1.11901	0.08414	0.89365	859.7773	768.6249
0.04956	1.11062	3107.791	3458.879	-1.04498	0.44379	0.95696	3457.49	3311.828
0.72867	1.08975	161.5385	175.1733	-1.00388	0.9784	0.99614	262.0369	260.644
0.54404	1.0324	1996.666	2057.421	-1.29689	0.00002	0.77108	1937.506	1494.072
1	1	18.39314	24.28782	1	1	1	18.71682	33.76738
0.00203	0.65389	797.1713	514.2396	-1.23873	0.04767	0.80728	642.4506	521.0642
0.00047	0.65738	589.1097	390.653	-1.31373	0.04424	0.76119	537.3119	405.1304
0.50178	1.04234	1075.718	1124.394	-1.05005	0.42098	0.95234	1159.439	1103.095
0.7528	0.94611	226.9483	213.7016	-1.17897	0.34711	0.8482	239.6895	203.1063
0.50205	0.84231	169.359	145.325	-1.19169	0.49582	0.83915	142.8601	120.1862
0.32415	0.80296	335.1625	260.6617	1.09342	0.5017	1.09342	241.4159	263.7312
0.7811	1.06491	186.4268	197.1288	-1.03142	0.88738	0.96954	197.6964	193.4579
0.02245	1.14682	9111.318	10469.36	-1.43663	8.82E-08	0.69608	10542.27	7290.872
0.74034	1.01709	7681.198	7819.389	1.05238	0.30107	1.05238	6978.157	7342.52
0.57765	1.02993	1338.175	1376.58	-1.05519	0.38736	0.94769	1498.31	1421.47
0.00756	1.14004	2899.03	3301.59	2.59338	1.78E-40	2.59338	2970.705	7699.871
0.70303	0.97713	1406.172	1377.268	-1.15317	0.07353	0.86718	1502.02	1293.281
1.41E-20	0.58607	2275.366	1333.325	-1.08222	0.23223	0.92403	1788.88	1651.761
1	1	18.55922	22.92232	1	1	1	17.69465	32.41957
0.58756	1.0369	3454.863	3573.061	-1.07926	0.20425	0.92656	3796.406	3535.418
0.33474	1.05139	1831.265	1928.401	1.00515	0.93901	1.00515	1985.073	1985.472
0.15834	0.86907	341.1166	296.8167	1.05973	0.72438	1.05973	281.6578	299.5272
0.94528	1.01918	156.8494	159.3779	1.15726	0.6431	1.15726	136.6832	157.4928
0.7712	0.93825	205.5266	189.3319	1.67122	0.026	1.67122	144.6461	239.6628
0.36302	0.92038	424.2258	390.2958	1.06812	0.51636	1.06812	332.491	355.0297
0.48401	1.06367	1463.331	1546.581	-1.23276	0.01354	0.81119	1529.948	1244.962
0.53686	1.091	239.6473	261.5019	1.02312	0.88472	1.02312	248.9395	254.3498
0.00329	1.14412	4946.165	5661.355	-1.12125	0.07983	0.89186	5815.284	5174.8

0.11515	1.11427	1031.758	1148.36	1.118	0.0617	1.118	905.5199	1012.696
0.00546	0.85819	10184.76	8751.035	1.05519	0.44561	1.05519	8300.51	8751.398
0.30959	0.85805	1536.475	1364.092	-1.66501	4.12E-10	0.6006	1422.391	854.5974
0.41811	1.04481	2334.667	2434.147	-1.05347	0.26323	0.94924	2531.454	2401.693
0.06354	0.75293	628.0314	464.776	1.24461	0.03577	1.24461	560.2276	700.7936
0.00269	0.72599	1778.415	1290.843	-1.28904	0.00019	0.77577	1345.389	1042.245
0.51196	1.0354	1202.103	1244.949	1.26993	0.00269	1.26993	1373.479	1748.76
0.31466	0.94945	1202.849	1140.966	-1.0862	0.10283	0.92064	1057.536	973.7274
0.91505	1.00906	1178.6	1193.479	-1.27943	0.00051	0.7816	1256.265	978.4699
0.18266	1.10012	770.0679	844.6342	1.04131	0.64486	1.04131	851.4109	883.1235
0.37573	0.57379	77.51344	43.02338	1.0068	0.99065	1.0068	66.33239	68.06151
0.0031	0.85317	4185.587	3565.736	1.09743	0.37475	1.09743	3575.779	3911.508
0.01307	0.80509	3152.049	2529.207	-1.24992	0.06935	0.80005	2654.899	2106.904
0.33097	0.87593	390.8898	345.9422	-1.09864	0.50561	0.91021	325.4728	297.6696
0.61591	1.05242	416.3346	436.2643	-1.09209	0.3931	0.91568	411.0775	376.9936
0.06957	1.14951	796.9959	912.6669	1.04505	0.55233	1.04505	914.9174	957.7264
0.75409	1.10386	140.0057	149.5388	1.07498	0.63967	1.07498	235.4428	253.8507
0.51995	1.12332	213.8144	237.7757	1.10177	0.55763	1.10177	212.8247	234.8939
0.36089	0.89396	427.4112	378.9905	2.04748	2.23E-15	2.04748	318.7665	653.5985
0.249	0.8885	2519.029	2247.541	-1.27335	0.00044	0.78533	1663.457	1307.285
0.55432	1.07909	424.6748	452.8467	1.28708	0.01751	1.28708	316.872	408.2186
0.75124	0.9665	828.9878	809.5378	-1.12668	0.04819	0.88756	851.8544	755.6135
0.98895	1.00144	633.1816	629.8352	1.09866	0.2649	1.09866	600.8939	661.6713
0.26627	0.87331	2526.183	2198.243	1.00914	0.94022	1.00914	2487.87	2485.634
0.0105	1.34361	2782.611	3722.896	-2.0445	5.28E-06	0.48912	4772.442	2236.719
0.0518	1.26013	2445.155	3114.871	10.58463	0	10.58463	2493.812	26369.91
0.74584	1.02332	4891.921	5015.946	-1.07372	0.28428	0.93134	3836.281	3585.288
0.95095	1.00792	376.6884	380.1811	1.10971	0.3024	1.10971	369.2033	410.142
0.3215	1.05259	1145.784	1204.87	1.32245	0.00009	1.32245	1194.869	1581.849
0.12093	1.18275	481.8706	565.9446	1.19973	0.0896	1.19973	518.4559	619.6028
0.3982	0.82738	185.0414	151.2898	1.24171	0.35218	1.24171	145.8861	181.0406
0.76341	0.7947	47.47231	37.73893	1.10977	0.90265	1.10977	52.61244	56.98718
0.10544	1.09837	3037.581	3333.506	-1.53728	8.38E-11	0.6505	3561.282	2309.077
0.18414	1.06203	17574.08	18649.22	1.28229	9.32E-06	1.28229	17759.76	22816.4
0.00036	0.75201	2405.874	1806.265	1.41618	2.81E-09	1.41618	1773.01	2508.366
0.8087	0.97655	521.8742	507.0061	1.01073	0.88909	1.01073	569.3759	576.0035
0.01872	0.85752	1790.683	1536.251	1.20267	0.05402	1.20267	1547.131	1856.612
0.58129	1.04798	404.519	424.3544	1.16752	0.101	1.16752	402.446	470.3087
0.88572	1.03554	3944.501	3901.895	-3.61357	0	0.27673	5499.22	1517.188
0.33668	1.13702	237.8621	271.3876	1.74403	0.00928	1.74403	165.7695	285.4644
0.53964	1.03739	2866.7	2989.812	-1.19749	0.01988	0.83508	3885.909	3248.042
0.97052	0.99281	254.0536	256.0792	-1.09739	0.66465	0.91125	191.4742	174.5665
0.83813	0.98678	2911.417	2873.927	1.19019	0.02505	1.19019	2756.99	3285.646
0.00133	0.86817	4540.082	3941.137	1.22383	8.80E-07	1.22383	4179.424	5114.919
0.13673	0.88488	2342.794	2076.634	1.17881	0.00013	1.17881	2102.668	2478.624
0.41781	1.0418	3738.922	3904.195	-1.09429	0.16042	0.91384	3941.272	3596.728
0.61367	1.04684	841.488	881.1343	1.07816	0.15791	1.07816	1196.896	1290.861
0.98531	0.99447	151.3315	155.0394	-1.5136	0.47681	0.66067	88.04478	57.72975
0.59952	0.84056	2370.422	1814.434	-8.01393	3.08E-22	0.12478	1954.475	243.8846
0.89962	1.00747	2841.015	2850.2	-1.05383	0.37351	0.94892	3913.204	3735.795
0.23177	0.87927	635.6805	562.7164	-1.23025	0.09908	0.81285	589.0119	482.6505
0.10746	1.09095	1604.485	1753.812	1.02697	0.72428	1.02697	1850.271	1897.683

0.76139	0.98045	895.2639	875.8307	1.09199	0.13458	1.09199	860.3091	939.8596
0.85917	0.97322	405.0289	400.0601	-1.52913	0.00043	0.65397	367.9833	240.4115
0.01741	0.84058	913.6398	766.592	1.36325	7.70E-06	1.36325	801.6271	1094.384
0.9985	1.00026	1185.377	1184.266	-1.09077	0.40656	0.91678	976.5536	890.0161
0.67848	1.02695	1381.156	1420.61	1.40098	4.58E-07	1.40098	1358.584	1900.155
0.96024	0.99677	638.8601	637.1865	-1.06602	0.41916	0.93807	631.7399	591.9316
0.22077	1.34971	185.2182	242.867	1.41184	0.07561	1.41184	202.8352	285.4022
0.59141	1.09232	216.0723	234.2893	1.15312	0.45407	1.15312	211.876	242.3523
0.01231	0.82664	50939.82	42255.32	1.08129	0.36233	1.08129	55912.07	60459.17
0.72492	1.03411	897.6306	921.3605	1.01978	0.78479	1.01978	957.0879	976.7289
0.86403	0.95432	117.046	111.8824	-1.04521	0.90228	0.95674	109.2835	103.8835
0.12758	0.90769	115911.3	105169.8	-1.50699	1.07E-07	0.66358	133744.9	88772.69
0.28508	1.07158	1181.805	1262.922	1.07151	0.17103	1.07151	1146.161	1227.946
0.0207	0.7741	562.1895	431.8872	-1.39361	0.03553	0.71756	540.4967	392.9504
0.22159	0.93211	863.5075	804.9547	1.11372	0.18513	1.11372	738.8248	825.0867
0.87629	0.97516	1126.151	1107.556	-2.57802	4.86E-37	0.38789	1105.826	428.6654
0.18898	0.85199	12813.08	11037.53	1.08572	0.09076	1.08572	13004.94	14105.38
0.98229	0.99599	200.1357	199.3633	-1.11383	0.61704	0.89781	169.1794	151.8913
0.8438	1.01976	697.9282	707.8033	-1.08845	0.31275	0.91873	605.5615	555.3223
0.05909	1.22554	1858.291	2196.866	-1.26303	0.00444	0.79175	3170.828	2502.616
9.87E-09	0.72885	12265.15	8935.303	1.18586	0.00004	1.18586	9998.975	11859.12
0.71796	1.05905	187.1496	198.2812	1.06682	0.7451	1.06682	237.3335	250.2127
0.23877	0.92061	2656.714	2437.181	1.05543	0.43523	1.05543	2780.474	2936.935
0.76812	1.07224	280.4675	282.2868	-1.5167	0.0457	0.65932	348.1827	232.0775
0.5958	1.1794	114.9717	138.5828	-1.10932	0.71814	0.90146	144.4388	130.2068
0.00494	0.77849	496.9801	387.2797	-1.0176	0.91102	0.9827	429.1065	416.129
0.14028	0.89776	1202.438	1080.955	-1.01882	0.87893	0.98153	1168.341	1144.275
0.039	1.1272	3940.466	4433.459	-1.91097	3.02E-14	0.52329	4685.044	2428.345
0.87517	0.98022	5161.876	5142.103	1.33179	0.00128	1.33179	5138.33	6850.439
0.00014	0.8087	1346.5	1088.302	1.35438	0.00006	1.35438	1020.459	1379.893
0.3014	0.84907	393.6113	341.4399	-1.3026	0.03167	0.76769	382.4999	293.5407
0.45868	1.2688	89.48624	112.9086	-1.00155	0.99791	0.99845	69.88387	68.2493
0.6871	1.0539	280.2244	295.7169	1.23815	0.16579	1.23815	285.2952	356.1096
0.54837	1.03764	1155.538	1194.91	-1.0322	0.56199	0.9688	1071.091	1038.308
0.57394	0.90111	244.6829	223.4764	-1.08952	0.63169	0.91784	223.3176	204.1564
0.67102	1.04311	392.9923	408.5993	-1.06922	0.60296	0.93526	395.4445	368.037
0.77936	1.02976	487.464	498.8586	1.80134	6.45E-19	1.80134	446.2034	803.747
0.00547	0.80383	857.3217	690.6578	-1.09553	0.56167	0.9128	695.4392	626.807
0.50814	1.05841	462.6309	488.5507	-1.33757	0.00466	0.74762	493.813	369.9906
6.08E-11	0.64644	4038.385	2598.196	-1.42263	1.26E-06	0.70292	3222.637	2267.874
0.24389	0.76599	155.3408	119.2075	-1.14935	0.57358	0.87006	137.6586	119.6877
0.32693	0.67342	99.8222	67.79974	1.14535	0.84016	1.14535	67.45703	73.04721
4.52E-06	0.78972	1589.146	1255.648	-1.11969	0.07858	0.89311	1303.693	1165.113
0.00096	0.66282	954.9753	625.7141	-1.08231	0.34059	0.92395	735.0358	680.8939
0.93452	1.00635	609.0798	614.6584	-1.30553	0.0012	0.76597	649.9044	498.6431
0.37211	0.93828	1008.284	943.2944	-1.08936	0.13148	0.91797	902.7552	828.4759
0.10367	0.9208	1979.871	1825.566	1.76686	6.36E-37	1.76686	2041.722	3607.838
0.00036	0.72983	1812.632	1319.112	-1.14773	0.01967	0.87129	1441.656	1256.858
0.00535	0.88379	2399.808	2120.814	-1.61577	0.00015	0.6189	2527.848	1564.481
0.46359	1.11785	301.2803	340.4932	-1.79698	9.60E-06	0.55649	336.9316	187.5051
0.01056	0.64518	3483.733	2190.616	-1.15679	0.27499	0.86446	2484.098	2162.276
5.75E-06	0.6302	2398.879	1507.057	1.00582	0.90773	1.00582	1678.103	1687.877

0.6503	0.96524	698.2533	675.7051	1.28478	0.00035	1.28478	633.2865	814.3901
0.61627	1.05709	503.9783	528.9691	-1.08002	0.45796	0.92591	471.289	436.4044
0.51389	0.96997	2995.566	2908.26	1.3366	2.20E-09	1.3366	3385.965	4521.312
0.84818	0.98003	301.2283	294.9359	-1.18948	0.32759	0.8407	261.7076	220.4368
0.29934	0.93956	1803.329	1699.414	-1.22744	0.00153	0.81471	1722.975	1402.259
0.02116	0.69031	663.7909	449.4587	1.64267	1.48E-09	1.64267	474.2922	777.7506
0.72214	0.97641	979.8186	958.1439	-1.07551	0.33924	0.92979	772.6483	719.7865
0.73933	0.85528	70.65279	60.30807	-1.12197	0.82781	0.89129	81.60352	72.5794
1	1	18.19172	24.01694	1	1	1	18.70056	31.64428
0.38831	1.06171	957.747	1017.758	-1.07991	0.08689	0.92601	1664.931	1541.768
0.54441	1.04184	598.5606	624.1462	1.08428	0.39736	1.08428	566.9563	613.2079
0.02584	1.13489	1376.453	1563.905	1.04761	0.49416	1.04761	1543.596	1610.177
0.12728	1.10837	3318.123	3670.362	-1.06868	0.30322	0.93573	3384.336	3176.955
0.97244	0.99621	506.6112	508.132	-1.04654	0.70593	0.95553	382.8024	367.3522
0.05131	0.84483	1749.555	1473.505	1.11453	0.38322	1.11453	1635.58	1822.905
0.80466	1.02147	1049.137	1078.77	-1.06167	0.41485	0.94191	1060.661	996.3708
0.67014	1.04059	934.2945	978.6678	1.05666	0.62644	1.05666	1094.011	1155.305
0.11064	0.8706	9578.496	8340.246	1.12541	0.00805	1.12541	8557.381	9630.42
0.2434	1.09853	700.4839	770.5875	-1.25144	0.00035	0.79908	1094.064	872.9968
0.42159	0.92441	749.5747	696.6615	-1.11383	0.14421	0.8978	675.8079	605.958
0.17977	0.77072	7948.48	6048.32	1.39209	0.02475	1.39209	5749.591	8145.108
0.57979	1.0681	570.8749	615.4296	-1.19032	0.14469	0.84011	507.0597	428.2518
0.5963	1.17503	107.6855	125.3794	1.10972	0.74249	1.10972	137.258	153.7932
0.66272	0.68405	41.49356	28.6286	1.01446	0.98869	1.01446	37.37133	38.7989
0.01318	0.79566	6512.476	5139.981	-1.2175	0.00006	0.82136	5951.834	4885.817
0.95706	1.0027	2242.402	2252.138	-1.08501	0.08895	0.92165	2567.106	2366.1
0.70254	1.02639	600.7125	617.3613	1.04613	0.62914	1.04613	598.1961	623.7034
0.8522	1.06677	115.8521	124.733	-1.2516	0.40205	0.79898	166.4076	131.8527
0.96766	1.00304	910.332	911.7706	1.41621	0.00072	1.41621	809.507	1144.568
0.80432	0.80408	59.90592	56.71929	-1.4014	0.7576	0.71357	46.84447	31.74617
4.45E-07	0.78825	3500.219	2757.293	-1.11874	0.27942	0.89386	2757.337	2449.485
0.04443	1.28127	9743.605	12415.27	-2.03683	0.00008	0.49096	14715.55	6916.085
0.04845	0.83815	7602.976	6373.613	-1.14035	0.14401	0.87693	6730.363	5901.518
0.31056	1.07668	857.8613	922.0839	1.00975	0.87104	1.00975	874.1363	881.9745
0.85328	0.97859	1126.773	1098.137	1.14388	0.19734	1.14388	1014.586	1168.071
0.4797	1.06802	758.8389	815.9518	1.10139	0.36368	1.10139	693.2437	759.984
0.01548	0.8876	1459.433	1295.431	-1.04226	0.69083	0.95945	1396.199	1338.823
0.97819	1.00321	455.2007	460.4558	-1.42558	0.00027	0.70147	454.341	318.9391
0.08332	1.10792	3675.748	4079.556	2.24495	0	2.24495	3291.035	7390.123
0.14242	0.7798	1430.512	1107.071	1.23427	0.08508	1.23427	1241.744	1545.755
0.43718	1.05244	1228.639	1295.519	1.02321	0.6626	1.02321	2584.02	2647.563
0.27575	1.10657	447.8257	493.77	1.27414	0.03372	1.27414	428.9114	543.7
0.11405	0.91978	9401.47	8603.334	1.58643	0.00164	1.58643	9438	15184.35
0.06531	1.11541	648.3588	722.8336	-1.03547	0.69397	0.96575	764.369	736.1014
0.00478	0.72041	2003.888	1434.422	1.16397	0.20215	1.16397	1619.977	1901.004
0.08672	1.1228	692.8706	777.5853	1.04339	0.50608	1.04339	1500.898	1557.672
0.03145	0.68175	4873.594	3254.762	1.19581	0.09049	1.19581	3703.082	4465.859
0.0009	0.81066	1004.13	814.6463	1.06298	0.54555	1.06298	843.5678	893.4581
0.50593	0.88201	210.5803	184.1461	1.33291	0.08562	1.33291	172.3432	229.6565
0.03713	1.1841	449.3077	532.6627	1.7085	0.00002	1.7085	381.5433	647.5479
1	1	17.57521	24.50898	1	1	1	17.19333	32.95078
0.06928	0.87215	5269.797	4597.839	1.36147	0.00045	1.36147	4855.126	6623.054

0.18983	1.05658	3860.14	4080.041	1.04228	0.32871	1.04228	3749.724	3908.532
0.81125	0.9514	280.7864	265.5203	1.07907	0.71561	1.07907	258.6409	282.3024
0.02841	1.12645	977.5512	1101.131	2.15777	2.14E-28	2.15777	890.5769	1922.948
0.50668	1.08768	338.5435	371.0147	-1.32082	0.04125	0.7571	311.0668	235.0294
0.8061	0.95665	311.0163	301.9958	-1.03218	0.83599	0.96882	268.5787	259.4357
0.57317	1.23132	107.4453	127.1858	1.79226	0.01946	1.79226	91.43588	163.7755
0.99875	1.00008	4217.843	4227.318	-1.06584	0.32131	0.93822	4673.384	4378.494
0.91056	1.0691	48.90083	51.92226	-1.26092	0.76183	0.79307	55.27259	42.99406
0.71541	1.0388	351.3344	363.7736	-1.08837	0.43036	0.91881	387.1675	355.033
0.42039	0.94304	2541.449	2398.556	1.01904	0.68113	1.01904	2464.634	2511.293
0.95537	1.00612	445.314	445.2902	1.05782	0.47286	1.05782	633.0919	670.0227
0.29307	1.05306	4061.667	4266.434	-1.00193	0.96557	0.99807	4070.388	4058.128
0.92802	0.99315	1326.891	1325.021	1.03488	0.56038	1.03488	1295.954	1339.354
0.43458	0.91537	3530.505	3252.447	1.4305	0.00022	1.4305	3181.646	4576.896
0.34246	0.77591	141.2296	109.7209	-1.32439	0.41971	0.75506	102.6277	77.39214
0.00094	0.57563	3718.94	2117.919	1.01031	0.92744	1.01031	2684.783	2724.339
0.29947	1.06642	1659.353	1763.021	1.00404	0.93641	1.00404	1628.308	1636.823
0.7914	1.05573	165.1518	173.5803	2.58015	0.00213	2.58015	78.86119	203.4332
0.46973	0.89267	372.8495	327.3688	2.43478	7.12E-14	2.43478	367.8249	901.836
0.84128	1.03006	305.1582	310.8237	-1.03165	0.76352	0.96932	339.7598	329.3882
0.94661	1.0175	208.2687	214.801	-1.13874	0.65036	0.87816	157.0029	139.7082
0.09131	0.75371	2237.688	1663.115	1.06947	0.65072	1.06947	1696.898	1827.556
0.76726	0.97851	3004.773	2948.624	-1.01983	0.70908	0.98055	3123.021	3067.68
0.00825	0.85929	5179.222	4457.794	1.01656	0.71505	1.01656	4571.361	4650.645
0.43756	0.92059	305.8276	281.8992	1.40254	0.01033	1.40254	250.722	350.6525
0.85574	0.98341	2821.513	2796.705	1.28066	3.07E-08	1.28066	3022.14	3869.82
0.00008	0.65064	5985.716	3907.154	-1.70911	8.40E-18	0.5851	4014.663	2355.045
0.15691	0.78643	924.9564	714.2394	-1.33444	0.06164	0.74938	825.8048	623.0914
0.05064	0.72598	426.5489	303.6184	1.3637	0.02306	1.3637	291.8763	396.9418
0.61329	1.05687	370.4982	390.009	-1.13209	0.38246	0.88332	348.0473	305.4202
0.097	0.77824	1533.377	1190.593	-1.52958	1.73E-11	0.65377	1136.212	743.1113
0.33563	0.9171	2967.153	2709.747	-1.47455	9.91E-07	0.67817	2741.493	1860.595
0.47256	1.05602	674.3145	710.3509	1.09882	0.26643	1.09882	688.5199	755.2426
0.8121	1.03364	324.3749	338.5414	-1.61221	0.00036	0.62027	420.3007	260.6502
0.91817	1.00915	2551.054	2596.167	2.93612	0	2.93612	2192.552	6433.447
0.04296	0.81256	1292.589	1042.954	-1.02783	0.75277	0.97292	1137.352	1108.79
0.85059	1.04415	128.8352	134.2968	-1.15893	0.6063	0.86287	136.9724	118.2682
0.22537	0.84811	3464.828	2945.594	1.31275	0.01359	1.31275	2809.429	3709.198
0.80682	1.03653	243.1143	251.0015	1.03153	0.85047	1.03153	215.1684	221.9394
0.00916	0.75057	3559.273	2660.304	-1.09281	0.43205	0.91508	2823.132	2585.147
0.15886	1.07576	5452.584	5884.19	1.08508	0.10255	1.08508	5382.426	5830.908
0.61694	0.95047	3143.593	2982.764	2.32044	6.20E-33	2.32044	2909.528	6765.966
0.85886	1.01892	500.821	507.1697	1.30178	0.0039	1.30178	538.1261	702.7501
0.06249	0.83372	2503.428	2089.044	1.46047	3.16E-07	1.46047	2145.104	3136.95
4.50E-09	0.77868	3873.817	3017.491	-2.38929	0	0.41853	2229.229	931.7577
0.01889	1.17	802.2565	937.6083	1.20085	0.00966	1.20085	850.7077	1020.227
0.54667	0.94943	2194.668	2082.059	1.20944	0.00254	1.20944	2049.293	2476.377
0.80617	0.97886	404.6105	396.7039	-1.07541	0.50506	0.92988	353.1036	328.0576
0.97856	0.99356	180.571	180.178	-1.42913	0.2373	0.69972	175.3395	124.8497
0.62263	0.9635	1073.028	1032.566	1.12881	0.15074	1.12881	1028.803	1158.942
0.22288	0.86366	856.1646	733.0105	-1.62323	0.00001	0.61606	777.2136	481.0642
0.10058	0.86786	1311.359	1140.838	1.29317	0.01174	1.29317	700.0288	909.1132

1	1	18.54193	22.86361	1	1	1	16.52555	27.46575
0.38116	1.24475	188.8578	229.2983	1.24193	0.11642	1.24193	250.9565	310.8128
0.59448	0.9486	506.2131	477.9326	-1.03961	0.65682	0.9619	467.2575	449.8755
0.60754	1.03986	573.8984	598.1186	-1.01811	0.75805	0.98221	1292.677	1268.525
0.01263	1.34087	367.1271	488.3716	2.17804	3.18E-08	2.17804	408.669	900.3935
0.95417	0.97979	128.2456	132.1887	-1.16103	0.38746	0.86131	360.5944	311.2404
0.72297	1.01961	615.4363	630.001	-1.15012	0.00227	0.86947	671.291	583.1773
0.42344	1.04111	5899.874	6136.798	1.286	0.00048	1.286	6218.782	7962.818
0.27095	0.87463	4750.843	4201.75	1.13367	0.14526	1.13367	5191.364	5866.191
3.29E-06	0.68104	6416.781	4372.084	1.38663	1.70E-10	1.38663	5215.584	7230.906
0.71805	1.02876	606.6074	625.7637	-1.11778	0.36427	0.89463	631.3925	560.6527
0.54806	1.03581	792.5472	820.4027	1.65006	4.05E-16	1.65006	777.3679	1281.834
0.5234	0.82016	120.7374	99.23677	1.53908	0.22159	1.53908	96.80811	149.9291
0.86193	1.0291	269.3641	281.2049	-1.66987	0.00118	0.59885	395.4256	234.8002
0.14655	0.88614	1842.193	1627.737	1.26309	0.00272	1.26309	1505.74	1909.126
0.70455	1.10214	163.261	175.4721	-1.01724	0.87292	0.98305	326.1868	320.7661
0.94009	0.99502	9530.943	9493.104	-1.04832	0.42534	0.9539	9965.521	9509.976
4.08E-07	0.56331	1941.213	1086.39	-1.29961	1.36E-06	0.76946	1428.27	1099.748
0.79017	1.03265	722.7883	751.0842	2.06219	0.00041	2.06219	632.3629	1315.881
0.55437	0.95505	2934.027	2814.131	-1.21774	0.00084	0.8212	2859.196	2344.728
0.87552	0.8977	59.64275	54.96739	1.21399	0.69524	1.21399	78.74216	96.53067
0.54853	1.03898	1484.869	1539.658	-1.30279	3.04E-06	0.76758	1521.997	1168.346
0.49475	0.92009	531.8243	484.7831	-1.04797	0.64745	0.95422	532.9036	510.6005
0.48566	1.1767	197.2342	225.2537	2.31979	3.75E-06	2.31979	161.2886	377.3167
0.03039	0.84433	1281.518	1087.907	-1.07764	0.33672	0.92796	1099.939	1017.527
0.52713	0.89148	196.1396	175.8667	-1.29259	0.51923	0.77364	138.5303	111.5336
0.0381	0.75162	672.6253	498.7396	1.24505	0.0101	1.24505	521.8384	651.1566
0.94665	0.99152	232.6644	230.6454	2.44932	1.07E-17	2.44932	215.3071	527.5661
0.86478	0.96341	1182.517	1149.521	-4.73162	1.81E-09	0.21134	773.1485	163.4005
0.12562	1.18746	851.342	1012.953	3.99707	2.34E-38	3.99707	651.5539	2611.199
0.602	0.95071	639.9636	605.2064	1.21181	0.04328	1.21181	546.6112	660.1563
0.924	1.02988	164.5193	161.5242	1.70515	0.01936	1.70515	126.6532	214.6917
0.54924	1.05161	728.8528	762.9512	1.00157	0.98097	1.00157	654.2334	654.9367
0.29312	0.9469	1416.543	1342.504	-1.13067	0.00998	0.88443	1301.827	1151.39
0.37333	0.92328	570.2811	528.2484	1.30777	0.00101	1.30777	526.1072	688.7201
0.41953	0.86103	2738.209	2353.273	-2.14796	3.78E-22	0.46556	1972.544	918.6489
0.96167	1.00517	433.3726	433.1839	1.13234	0.19062	1.13234	377.7196	428.0505
0.93758	1.07484	38.21117	40.71349	-1.23809	0.84394	0.8077	39.20531	30.79943
0.811	0.96669	340.1683	325.0775	1.23215	0.06562	1.23215	313.5342	385.5195
0.02197	0.73865	2301.866	1726.516	-1.33294	0.01765	0.75022	1251.117	938.9641
0.92839	1.02204	137.9239	142.0517	1.15197	0.5338	1.15197	137.2351	157.9656
0.75109	1.02106	1843.479	1888.758	-1.07809	0.09114	0.92756	1748.579	1622.035
0.00324	1.18563	3328.265	3948.372	1.49372	3.45E-12	1.49372	3486.111	5207.047
0.93081	0.9885	295.2505	293.6397	-1.20223	0.37854	0.83179	289.1981	237.5696
0.6813	0.96286	858.935	821.9908	-1.0471	0.51287	0.95502	870.2296	832.4049
0.29948	0.89054	4839.733	4365.184	1.1819	0.03158	1.1819	6264.984	7402.581
0.80963	1.08214	107.7759	116.8063	1.14502	0.45206	1.14502	251.6352	285.8023
0.44445	1.08358	2616.907	2800.943	4.04317	7.12E-40	4.04317	3022.041	12248.33
3.88E-14	1.65765	1555.209	2583.741	3.95145	3.78E-44	3.95145	1336.581	5297.021
0.70827	0.96548	1421.455	1377.781	-1.05395	0.59938	0.94881	1585.215	1499.783
0.92643	1.01478	299.2468	307.7927	-4.58994	9.86E-09	0.21787	234.8807	51.12958
0.4652	0.88337	378.8759	345.1022	-1.12459	0.23491	0.88921	633.6205	565.5865

0.35303	0.9473	2795.309	2646.403	-1.09897	0.04484	0.90995	2344.602	2132.862
0.01129	0.60826	712.708	420.7172	1.09388	0.5303	1.09388	483.2051	531.8635
0.61451	0.96695	1519.743	1470.699	1.47419	9.35E-16	1.47419	1102.558	1625.283
0.05816	0.85338	4627.447	3941.415	1.0843	0.36638	1.0843	3858.453	4190.304
0.30469	1.05911	12002.59	12735.84	-1.07832	0.22301	0.92736	11523.06	10683.58
0.54579	1.05684	562.8284	597.5386	-1.01322	0.84975	0.98696	631.2047	623.1371
0.15729	1.11374	1297.859	1450.315	-1.13845	0.01939	0.87839	1171.755	1029.975
0.59805	1.02868	1254.807	1292.182	1.07864	0.23238	1.07864	1131.236	1219.05
0.00007	0.79052	2944.59	2327.433	-1.05644	0.46251	0.94658	2481.87	2344.67
0.56531	1.08694	353.571	390.2026	-2.68065	5.45E-07	0.37304	490.6481	180.1393
0.76658	0.91955	135.7456	126.7831	-1.16974	0.70249	0.85489	90.58372	77.89944
0.96602	1.00416	494.1344	493.9702	1.01717	0.85437	1.01717	488.5674	498.0651
0.37604	0.8991	3005.741	2718.171	1.0202	0.76645	1.0202	2559.096	2609.878
0.66845	1.05706	408.6584	437.2076	-1.10966	0.21143	0.90118	669.4877	601.9388
0.09551	1.21796	408.2846	493.492	1.36311	0.00247	1.36311	633.21	860.005
0.33858	1.05161	1097.203	1154.446	1.11683	0.03499	1.11683	1151.849	1285.842
0.93136	1.01398	224.5272	226.6375	-1.04514	0.7895	0.95681	212.188	203.386
0.00275	1.14476	5852.55	6702.922	-1.23736	0.00976	0.80817	7193.775	5807.49
0.61131	1.02743	859.3184	882.6892	1.00573	0.92539	1.00573	848.1118	853.5015
0.6911	1.02049	2871.885	2930.795	-1.24536	0.00027	0.80298	2600.858	2099.569
0.66952	0.73859	65.66115	51.78188	-1.07838	0.95797	0.92732	24.8025	30.47136
0.73483	1.07427	174.6075	185.9362	1.15419	0.56697	1.15419	169.5811	194.8731
0.99316	0.99929	891.0772	895.6218	-1.12345	0.10724	0.89012	895.6156	796.0231
0.57626	0.97561	7326.956	7141.66	1.62915	7.31E-09	1.62915	7023.363	11483.96
0.43996	1.1636	138.9922	161.6666	1.30141	0.30736	1.30141	141.0448	181.6924
0.97518	1.03464	40.69446	37.82718	3.43879	0.24557	3.43879	23.29334	83.13787
0.00653	0.87544	1373.661	1202.821	1.04926	0.44985	1.04926	1251.713	1311.676
0.11432	1.14346	700.0064	799.7067	-1.02495	0.62924	0.97565	1546.943	1507.661
0.50908	1.03803	965.5379	1001.617	-1.13858	0.0745	0.87829	793.1759	695.5383
0.79816	1.01764	865.1758	882.8604	-1.10327	0.19592	0.9064	908.0854	821.3337
1	1	17.60026	23.78479	1	1	1	19.39088	31.4924
0.43474	0.93206	1161.041	1078.96	-1.00854	0.89444	0.99153	1033.556	1024.065
0.00094	0.73733	3325.844	2409.289	-3.82438	0	0.26148	1847.006	482.8679
0.50069	1.04464	649.0228	677.2909	-1.00413	0.9535	0.99589	747.447	745.2267
0.87081	0.98883	897.4496	884.7266	1.02841	0.58278	1.02841	1001.984	1030.371
0.83414	1.02878	442.2328	449.2865	1.54422	2.91E-07	1.54422	441.6135	683.1908
0.45058	0.93204	877.171	821.0202	-1.1946	0.07882	0.8371	615.5981	517.4536
0.1048	0.76069	3202.482	2413.288	-1.06872	0.57421	0.9357	2446.209	2315.21
0.57018	0.95967	1641.271	1567.707	-1.08025	0.30299	0.92571	1352.459	1255.74
0.15757	1.22288	245.4432	298.2448	-1.06092	0.69744	0.94258	306.5342	287.5483
0.86474	1.0121	6065.965	6148.263	1.0137	0.78507	1.0137	6189.966	6287.423
0.00941	0.62803	1366.585	836.5524	-1.24614	0.15831	0.80248	1070.798	863.8834
0.82231	0.96282	231.7333	223.0443	-1.14831	0.06101	0.87085	595.9299	519.2026
0.74094	0.95501	440.6629	426.247	-1.44619	0.00932	0.69147	343.1956	238.2216
0.90244	0.98905	1004.551	989.5668	1.10234	0.22846	1.10234	858.2849	948.2233
1	1	17.64412	23.50867	1	1	1	18.38614	30.3785
0.35259	0.84873	334.4922	278.435	-1.21691	0.15424	0.82176	298.0221	244.3422
0.16756	1.06846	2405.374	2573.687	1.01925	0.67614	1.01925	2546.05	2594.971
1	1	20.03452	23.9378	1	1	1	18.07978	32.85773
0.60622	1.04242	513.4273	536.5266	-1.22594	0.04026	0.8157	523.9908	427.8362
0.59204	1.07941	491.3244	538.5764	-1.6729	0.00006	0.59776	522.6586	313.2298
0.23545	1.07557	5133.372	5507.437	-1.07616	0.09702	0.92923	5922.771	5499.917

0.6836	0.91161	406.8647	384.1223	-1.84755	0.04861	0.54126	298.2295	161.8742
0.95465	1.01305	218.3548	216.3024	1.13347	0.55728	1.13347	167.8366	191.2636
0.70727	0.97125	7675.316	7504.396	-1.16366	0.07734	0.85935	7567.216	6478.021
0.94126	0.99255	404.9093	403.3711	1.0026	0.9823	1.0026	322.2785	322.7399
0.43372	1.03503	3673.284	3802.452	-1.2506	0.00141	0.79962	3753.903	3012.835
0.60781	0.83322	142.4602	113.4437	1.36043	0.17458	1.36043	133.3466	180.7635
0.05732	1.30275	5322.285	6828.053	-2.28519	5.44E-10	0.4376	9961.523	4221.163
0.87203	1.05161	129.4373	132.9314	-1.06798	0.81959	0.93635	150.3503	139.4894
0.09454	1.13106	956.3777	1077.552	1.07354	0.17404	1.07354	1064.469	1142.427
0.93337	1.01021	482.9924	492.5138	-1.12145	0.4466	0.8917	391.105	345.1301
0.83161	1.14723	84.47446	84.64944	3.12773	0.00717	3.12773	55.267	172.3308
0.02054	0.84345	1317.365	1114.676	1.0538	0.49685	1.0538	1176.184	1237.779
0.85786	0.97724	479.1061	472.6872	-1.01202	0.93743	0.98812	501.7454	493.5606
0.00038	0.74133	4085.645	3022.103	1.38351	0.00002	1.38351	3066.998	4241.552
0.89497	0.95586	80.0549	76.48764	3.39298	0.00051	3.39298	68.42444	233.407
0.52277	0.93801	12535.11	11722.51	-1.04816	0.63929	0.95406	13164.4	12475.22
0.17662	0.92235	2821.963	2605.196	1.00135	0.98272	1.00135	2683.531	2689.142
0.23673	1.10266	1595.116	1749.631	-1.18561	0.00794	0.84345	1740.314	1470.001
0.8054	1.02347	2824.338	2900.015	1.23659	0.00037	1.23659	2651.124	3282.067
0.61925	1.04439	464.2869	486.323	1.17265	0.2459	1.17265	432.9066	504.4737
0.98028	0.99816	1154.921	1156.403	-1.01381	0.82119	0.98638	1668.759	1642.402
1	1	17.92527	23.69293	1.77601	0.71061	1.77601	16.4282	44.63477
0.18359	1.26979	304.9258	379.8731	1.90079	0.00002	1.90079	247.8643	475.5549
0.50681	0.85021	201.4186	176.2559	-1.29352	0.29821	0.77308	153.5526	119.0094
0.45513	1.04292	1745.875	1814.969	-1.08828	0.06786	0.91888	3549.676	3264.248
0.8423	1.05656	305.0664	322.3212	-1.06015	0.36522	0.94327	1051.973	990.4132
0.07535	1.08155	9176.045	9920.389	-1.11942	0.05104	0.89332	10136.31	9027.593
0.68537	1.02334	776.2125	794.1812	-1.03124	0.67515	0.9697	696.8588	676.4053
0.08835	1.31726	358.5359	477.0586	1.08065	0.38313	1.08065	408.8457	441.4225
0.00003	1.26113	2509.21	3165.168	1.35438	0.00004	1.35438	2457.891	3333.587
9.93E-10	0.65147	1434.086	937.7304	-1.46577	1.16E-08	0.68224	1153.513	788.2932
0.10261	1.10301	779.6252	859.1376	-1.06686	0.36966	0.93733	821.3144	768.6061
0.03556	0.81569	744.1798	610.3655	1.04126	0.58187	1.04126	626.7185	653.0466
0.7808	0.85433	71.49251	62.00782	-1.28074	0.64084	0.7808	77.96759	61.6443
0.52624	1.08205	258.1188	279.1311	1.0014	0.99397	1.0014	241.9081	242.1505
0.01579	0.73634	5826.051	4233.38	1.12556	0.32314	1.12556	4842.01	5455.779
0.33022	0.86361	1534.615	1315.886	1.84919	0.00008	1.84919	1241.92	2357.859
0.88529	0.84797	36.37088	35.23452	-1.22501	0.7631	0.81632	59.56377	47.97661
0.49906	1.05227	2354.365	2498.156	-1.2767	0.0059	0.78327	2493.693	1951.533
3.66E-10	0.70633	2604.271	1834.468	-1.4663	0.00221	0.68199	2083.817	1394.469
1	1	17.93848	24.02645	1	1	1	17.73726	29.37595
0.95619	0.92547	24.99694	24.07916	2.8311	0.3355	2.8311	33.19976	83.74788
0.35276	1.08285	1969.807	2130.185	1.40847	2.97E-13	1.40847	1947.904	2743.927
0.14492	0.84522	337.1823	285.5832	-1.10335	0.49124	0.90633	419.5075	376.5096
0.7761	1.0153	1613.115	1641.922	-1.04656	0.54714	0.95551	1628.764	1554.79
0.55219	1.05321	412.1711	434.1533	1.15564	0.54054	1.15564	267.6473	311.2142
0.46975	1.13347	256.1066	285.3912	1.8269	0.00715	1.8269	207.546	391.3145
0.1368	0.8478	1123.193	948.4109	1.18401	0.02377	1.18401	1034.47	1226.236
0.08709	1.20267	413.6229	499.4285	1.20674	0.00984	1.20674	597.752	720.7202
0.07785	0.80766	1570.816	1263.746	1.17715	0.01842	1.17715	1251.576	1476.977
0.86813	0.9433	85.85555	80.68474	-1.20754	0.74773	0.82813	80.65562	67.58281
0.53907	0.86855	182.9599	159.175	-1.39491	0.24265	0.71689	133.57	95.76739

0.87236	0.96056	184.0015	172.6431	2.75329	8.99E-10	2.75329	161.0801	446.5905
0.68711	1.0267	610.9	627.0048	1.04558	0.61623	1.04558	613.6403	640.4416
0.7682	1.01658	1479.208	1504.16	-1.0146	0.81435	0.98561	1175.698	1160.015
0.15877	1.07998	5843.793	6304.345	1.0215	0.61157	1.0215	6570.321	6713.698
0.62738	1.02365	1362.735	1394.273	1.01724	0.72673	1.01724	1497.567	1523.571
0.64942	1.03913	1244.65	1284.431	1.21217	0.00018	1.21217	1136.321	1378.133
0.75605	0.93826	2396.123	2109.093	-5.42355	6.87E-44	0.18438	3807.442	698.4392
0.71374	1.2112	50.57639	61.00393	1.33273	0.61032	1.33273	56.87945	75.85689
0.07844	1.121	825.3582	923.3971	1.13884	0.03585	1.13884	920.0057	1049.138
0.98952	1.00272	157.9872	157.5513	-1.12001	0.67766	0.89285	158.6047	140.137
0.78978	0.94282	267.5695	252.2333	-1.31006	0.24423	0.76333	204.6995	154.8257
0.01696	0.7128	562.6986	395.1074	1.02865	0.86433	1.02865	510.0947	531.9919
0.02581	0.6346	1210.467	746.0155	-1.04127	0.77906	0.96036	747.2701	723.846
1	1	17.47272	24.56448	1	1	1	18.63834	32.05204
0.77599	1.0457	372.926	395.5536	-1.11027	0.35986	0.90068	388.1919	350.5759
0.9844	0.99892	4794.67	4809.888	-1.04564	0.53808	0.95635	4652.409	4438.659
0.49771	1.04734	3698.532	3866.977	-1.36346	0.00005	0.73343	4283.845	3146.451
0.5666	0.95053	487.5242	461.9664	1.12721	0.26115	1.12721	437.6982	495.3311
0.18388	1.11462	560.6796	625.7	1.10041	0.36086	1.10041	760.2368	833.5563
0.79614	1.03006	711.2425	727.3983	1.21234	0.00124	1.21234	668.5913	810.5913
0.0151	0.86954	4595.141	3995.688	-1.69008	2.00E-31	0.59169	4079.319	2414.036
0.10205	0.91226	3259.556	2972.482	1.10244	0.22648	1.10244	2431.649	2694.471
0.94888	1.00683	541.2042	547.5086	-1.13365	0.04962	0.88211	795.2169	700.9977
0.20952	1.06623	12691.29	13541.43	2.54053	3.76E-36	2.54053	12836.61	32639.01
0.95604	1.00373	1646.66	1653.559	-1.00399	0.94549	0.99603	1427.056	1419.715
0.01973	1.11765	1805.516	2019.839	1.05058	0.4751	1.05058	2215.521	2328.065
0.03846	1.12326	2063.768	2322.11	-1.10931	0.2463	0.90146	2294.9	2084.185
0.04162	0.78068	715.6718	553.0553	1.16713	0.01584	1.16713	569.2692	664.3937
0.02872	1.24768	3529.918	4412.779	1.7287	5.00E-31	1.7287	3182.136	5503.304
0.04537	0.68092	238.6069	160.8658	-1.20217	0.38077	0.83183	209.9231	174.5626
0.87942	1.01627	715.4576	731.3198	-1.0276	0.69673	0.97314	1415.524	1371.366
0.3224	1.07056	698.0543	745.8324	-1.04587	0.52674	0.95614	743.7577	711.9306
0.56556	1.07474	3070.905	3332.318	1.96715	2.81E-16	1.96715	2667.422	5271.04
0.7836	0.96076	465.1433	442.6771	1.01865	0.8901	1.01865	471.5718	483.689
0.00049	1.21682	8081.599	9818.558	1.38326	6.10E-06	1.38326	8431.414	11644.8
0.4842	0.93344	3400.527	3214.869	-1.18936	0.03999	0.84079	3099.689	2605.829
0.36518	1.15132	202.8543	233.3828	-1.03576	0.83387	0.96547	236.256	227.662
0.6069	1.03408	4179.569	4299.099	-1.01746	0.76522	0.98284	4482.701	4402.747
0.0252	1.14095	668.4855	762.4395	1.02417	0.70717	1.02417	685.2903	701.5942
0.80685	1.05303	223.1982	229.3129	1.03241	0.68441	1.03241	510.1711	526.4
0.17441	0.84869	310.997	264.8107	1.16186	0.47995	1.16186	225.5559	265.7137
0.03021	0.85784	7169.64	6165.708	1.82608	3.30E-29	1.82608	6484.974	11853.48
0.45821	1.03291	2736.65	2828.525	-1.01159	0.82286	0.98855	2799.318	2767.243
0.39269	1.05674	1081.227	1142.311	1.52926	1.32E-07	1.52926	973.2763	1487.742
0.00556	0.64498	352.2769	224.5681	-1.60692	0.00891	0.62231	268.5004	166.4207
0.05506	1.08657	2388.021	2594.43	-1.00246	0.96412	0.99755	2446.858	2443.719
1.17E-08	0.36489	1412.024	500.6875	-1.56715	0.00018	0.6381	929.2443	595.4795
1	1	18.61425	25.152	1	1	1	18.34599	30.03551
0.90874	1.02218	176.9559	180.7094	1.04765	0.75222	1.04765	217.2881	227.6587
0.95533	1.0088	270.8363	270.3761	1.04873	0.69482	1.04873	284.1204	298.2904
0.48045	1.10967	439.5523	481.9391	1.11092	0.40547	1.11092	414.1265	463.6664
0.1749	0.82963	9464.777	7795.333	-1.23454	0.06032	0.81002	8048.932	6547.587

0.38387	0.95419	1493.798	1425.077	1.46009	0.00001	1.46009	1365.834	1994.665
0.03326	1.14015	2339.142	2673.524	-1.02744	0.5699	0.9733	2762.53	2687.938
0.76304	0.94157	222.8106	212.4322	-1.41974	0.2475	0.70435	149.9146	105.6134
0.99081	1.0105	41.91941	42.1965	1.44864	0.77282	1.44864	27.30859	37.30029
0.01075	0.67669	7146.173	4723.624	-1.20196	0.15489	0.83198	5526.425	4576.754
0.97545	1.00232	770.6711	769.7886	-1.00893	0.92145	0.99115	784.7792	780.2911
0.11023	1.18182	822.0305	966.1255	1.25191	0.00196	1.25191	750.2671	941.0172
0.40592	0.79186	153.765	123.8658	-1.69093	0.24843	0.59139	100.3288	58.95074
0.22241	0.91827	3343.611	3070.574	-1.27016	3.75E-07	0.7873	3188.871	2509.302
0.5815	1.04212	937.5026	976.3552	1.02214	0.7191	1.02214	1230.354	1260.464
0.84648	1.02398	278.0017	283.7347	1.08287	0.60678	1.08287	261.122	281.2721
0.85422	0.94715	102.3131	97.05151	1.02034	0.9694	1.02034	81.17818	80.70042
0.09262	1.19741	416.7947	496.0211	1.38886	0.01651	1.38886	383.6864	527.735
0.00081	0.71174	9055.402	6405.993	1.68708	1.95E-10	1.68708	7998.16	13488.17
0.85654	0.98959	2875.35	2839.611	-1.00058	0.98958	0.99942	2862.373	2861.394
0.39291	1.0414	2609.704	2720.536	1.06929	0.23988	1.06929	2511.528	2696.934
0.00521	0.69612	577.1724	397.302	-1.08564	0.40606	0.92112	457.3493	421.8118
0.13194	1.08748	1906.895	2072.917	1.22637	3.72E-06	1.22637	1916.281	2350.467
0.04087	1.12062	1524.179	1705.887	-1.13632	0.00523	0.88004	1542.015	1356.949
0.60075	1.04196	1390.584	1441.081	1.08558	0.16116	1.08558	1262.906	1368.702
0.54862	1.03132	1071.53	1105.081	1.00687	0.92062	1.00687	788.0344	792.3745
0.27632	0.77805	313.7728	237.8407	1.25052	0.26765	1.25052	287.1904	364.5032
0.00235	0.78967	4978.526	3924.17	1.46593	7.04E-09	1.46593	4580.515	6719.194
0.7682	0.96971	514.2925	495.7075	-1.07016	0.56396	0.93444	453.4062	424.737
0.00002	0.71467	2055.099	1456.637	-1.01646	0.80917	0.9838	1549.319	1519.528
0.47601	0.95148	1327.528	1263.813	-1.18404	0.02985	0.84457	1175.969	990.3074
0.01796	0.84599	1984.652	1677.858	-1.05325	0.62329	0.94944	1239.898	1179.762
0.79906	1.13619	69.49809	77.7527	2.18148	0.01127	2.18148	76.76162	167.6408
0.77506	1.01903	1633.183	1657.813	-1.0222	0.64497	0.97828	1536.004	1502.75
0.04015	1.1199	4853.452	5426.669	-1.28546	0.00022	0.77793	5609.611	4351.379
0.47774	1.04618	2641.78	2751.136	1.03256	0.567	1.03256	2766.45	2866.614
0.86133	1.08552	74.71245	81.52966	1.00884	0.98724	1.00884	71.38425	72.46008
0.08583	1.10881	3135.082	3467.548	1.37554	0.00461	1.37554	2665.962	3665.359
0.04524	0.77957	1755.813	1372.928	1.31515	0.00014	1.31515	1567.611	2064.222
0.01709	0.56256	322.0087	174.6811	1.01666	0.92115	1.01666	270.8366	277.6095
0.627	0.96194	11676.11	11197.06	1.15244	0.02603	1.15244	10351.57	11939.68
0.52964	1.45539	48.98475	69.30532	2.20241	0.14653	2.20241	47.79789	106.2807
0.86894	0.93714	91.90753	85.28329	1.26817	0.62364	1.26817	66.58438	84.33646
0.79145	0.98386	1853.162	1819.348	-1.09569	0.12337	0.91267	1915.451	1751.072
0.83733	0.99092	7657.173	7584.037	2.35952	1.11E-28	2.35952	9449.123	22335.71
0.83466	1.01309	2624.627	2671.312	1.04607	0.34241	1.04607	4041.75	4225.917
0.79707	1.01747	1003.76	1021.849	1.01611	0.83293	1.01611	1634.904	1653.857
0.71101	1.03636	1081.082	1110.6	1.01841	0.82064	1.01841	1135.904	1161.013
0.07788	1.08077	1608.839	1738.738	-1.46341	2.07E-10	0.68334	1895.112	1296.714
0.74275	0.94802	193.6462	183.4628	-1.11643	0.53192	0.89571	189.8234	169.9195
0.79863	1.01206	2558.069	2591.474	1.00738	0.8921	1.00738	2717.742	2732.515
0.60383	1.07176	206.9609	221.9498	1.23155	0.27545	1.23155	183.8354	225.4785
0.81688	0.97028	607.1365	582.5499	1.30771	0.00156	1.30771	543.2687	708.8856
0.03719	1.10379	1477.391	1629.544	-1.0156	0.7313	0.98464	1617.268	1592.433
0.90759	1.00997	455.325	460.3749	-1.21381	0.08864	0.82386	468.5441	387.6716
0.95627	1.01149	212.1036	218.1942	-1.28158	0.29598	0.78028	206.1274	162.4005
0.00001	0.58445	879.3158	508.2481	-1.51498	1.17E-06	0.66007	667.6313	441.4623

0.05652	0.82978	823.4688	679.7618	1.09338	0.16933	1.09338	752.5316	822.1906
0.09697	1.14949	1623.496	1862.99	1.28729	0.00279	1.28729	1553.218	2009.592
0.62127	0.94638	1851.949	1737.445	-1.21973	0.00113	0.81985	1946.828	1596.206
0.88254	0.96806	136.779	132.5174	-1.37603	0.33262	0.72673	124.4654	90.82222
0.57209	1.0868	197.7893	215.3214	6.05576	0	6.05576	208.7705	1267.052
0.71266	1.01621	3927.41	3993.425	-1.12654	0.02982	0.88768	4010.722	3551.901
0.91125	0.87158	32.01434	28.34861	1.02857	0.9728	1.02857	45.92756	47.38712
0.00094	1.21944	5057.886	6127.995	1.48949	0.00001	1.48949	5928.799	8877.848
0.02012	0.79278	2103.335	1659.365	1.09068	0.31333	1.09068	1742.888	1903.833
0.9547	0.99615	660.9052	659.3143	1.10774	0.34913	1.10774	604.299	666.6646
0.86941	1.0195	304.9183	310.926	-1.09404	0.52077	0.91405	276.3102	252.6243
0.90533	0.9855	2740.813	2747.115	-1.51265	6.52E-18	0.66109	2086.19	1379.295
0.8403	1.01295	920.2683	929.9586	-1.00584	0.9335	0.9942	883.9661	880.2296
0.36243	1.0662	4072.915	4368.085	1.03876	0.49842	1.03876	4030.615	4179.993
0.56344	0.95476	1769.022	1686.24	1.60154	6.49E-17	1.60154	1588.792	2546.709
0.08905	1.08917	2010.426	2190.87	1.21838	0.02379	1.21838	1945.879	2361.191
0.00139	0.69587	1749.609	1205.424	-1.00491	0.95986	0.99511	1523.444	1520.412
0.44498	1.04286	1649.62	1722.749	1.1819	0.00531	1.1819	1706.612	2017.507
0.71811	1.49733	29.64756	45.71812	1.37825	0.77945	1.37825	36.11855	59.49391
0.89443	0.98955	687.1968	682.2958	1.05228	0.46677	1.05228	677.0804	711.6436
0.9269	0.90564	38.93024	39.0107	7.60943	3.28E-10	7.60943	40.85174	314.9622
0.02169	0.79245	4340.065	3473.201	1.0375	0.62407	1.0375	4140.946	4298.93
0.63291	1.03614	503.7989	521.9042	1.1503	0.169	1.1503	563.1559	644.9117
0.00311	0.70288	1099.49	766.321	-1.3179	2.19E-06	0.75879	875.6492	664.5317
0.07113	0.82548	1620.282	1337.144	-1.0517	0.45533	0.95084	1412.951	1345.667
0.8076	0.89411	104.0234	88.11685	1.2575	0.45866	1.2575	107.8595	134.6284
0.65464	1.25244	84.68351	115.1911	-2.46774	0.26624	0.40523	78.08315	30.85659
0.39275	1.07293	780.2162	833.6714	-1.00198	0.98024	0.99802	756.3634	756.1304
0.46834	1.05308	1789.2	1871.469	-1.00667	0.89249	0.99337	1964.354	1952.545
0.14443	0.88695	813.3684	724.0513	-1.25391	0.04779	0.79751	581.9069	466.5585
0.54985	1.04076	690.5475	718.3178	1.08356	0.45726	1.08356	460.3064	498.7452
0.38499	0.90969	4185.246	3777.731	-1.06472	0.2761	0.93921	3430.469	3223.799
0.0675	0.7942	2497.609	1988.332	-1.12921	0.02053	0.88558	1938.812	1719.251
0.47009	0.90775	313.3745	283.0797	1.04589	0.70412	1.04589	311.1589	325.8793
0.26293	0.89185	14005.26	12537	-1.31826	0.00226	0.75857	12732.29	9612.089
0.0522	1.10186	3580.471	3937.353	1.04975	0.25816	1.04975	4426.293	4646.912
0.09716	0.74926	3551.691	2679.82	-1.61014	1.55E-09	0.62107	1755.416	1090.191
0	3.13433	107827.7	337339.1	3.17298	8.48E-18	3.17298	112964	365399.2
0.00021	1.33162	2476.771	3309.875	-2.2861	3.73E-11	0.43743	2680.983	1164.966
0.61956	1.07589	313.6141	335.0201	-1.1313	0.31724	0.88394	346.6249	307.2189
0.4513	1.04447	1271.409	1324.364	-1.07169	0.18662	0.93311	1554.417	1449.438
0.52705	1.05998	396.8581	420.2571	-1.20762	0.1607	0.82808	378.3608	312.7658
0.22945	0.82898	2936.143	2444.372	1.6453	0.00018	1.6453	2769.901	4562.412
1.78E-16	0.69258	12871.19	8914.517	1.01066	0.86794	1.01066	11800.41	11954.45
0.01174	1.11087	5132.334	5702.042	-1.19134	0.00166	0.83939	5837.638	4896.665
0.21492	1.07407	780.2426	838.241	1.19107	0.0873	1.19107	736.6238	873.8903
0.04487	0.80859	2372.032	1889.579	1.1841	0.07424	1.1841	1989.477	2371.044
0.06744	0.69254	29463.22	20257.54	1.22085	0.00002	1.22085	11171.7	13619.59
0.66759	0.89706	754.7347	690.4492	-3.9017	1.44E-07	0.2563	690.7176	177.0299
0.79186	1.0113	3346.604	3384.906	1.01503	0.77092	1.01503	2461.947	2496.928
0.0429	0.71687	1800.821	1310.102	-1.20281	0.00122	0.83139	939.4481	781.2848
0.02015	1.15812	4110.88	4751.006	1.13194	0.02626	1.13194	4639.947	5262.63

0.64874	1.02356	2484.981	2538.557	1.01697	0.70813	1.01697	2838.913	2885.903
3.89E-18	0.67231	1867.422	1255.485	1.17029	0.03092	1.17029	1584.906	1857.786
0.01187	0.7487	3299.288	2455.076	-1.06691	0.43716	0.93728	2564.408	2410.333
0.01664	0.74851	4390.832	3298.234	1.40873	5.58E-06	1.40873	3726.117	5261.17
0.77694	1.02086	2980.926	3039.38	1.25161	0.0003	1.25161	3040.625	3809.701
0.02261	0.66428	381.6648	248.5877	-1.61296	0.04633	0.61998	298.9916	188.9116
0.35219	1.07524	1896.329	2036.022	1.02642	0.59801	1.02642	1773.272	1821.558
0.96275	1.02177	92.57298	96.5898	1.05283	0.86263	1.05283	110.9751	116.44
0.22205	1.10481	1326.843	1483.106	-1.05152	0.6074	0.951	2490.07	2432.942
0.01019	0.7559	1316.994	991.4432	1.48414	1.54E-14	1.48414	1013.888	1504.552
0.39339	1.11674	4125.408	4601.432	-1.57546	0.00009	0.63473	5984.232	3739.349
0.73005	1.09165	141.4355	155.8308	1.12397	0.34789	1.12397	341.966	385.9701
0.00007	0.74323	1649.23	1222.352	1.02208	0.66716	1.02208	1280.71	1308.504
0.4603	1.14651	153.2706	175.45	1.6523	0.04492	1.6523	134.0145	221.6644
0.00102	0.76322	2099.675	1597.992	-1.27759	0.00325	0.78272	1752.695	1370.613
0.78301	1.0869	135.3075	145.6415	-1.04959	0.69078	0.95276	368.3473	352.1747
0.09808	1.13223	2757.438	3084.397	-1.14445	0.00417	0.87378	4670.487	4076.224
0.04931	1.14149	593.0221	676.8425	2.09714	6.07E-21	2.09714	957.4091	2011.672
0.88343	1.01312	897.0051	909.3434	-1.43949	1.55E-06	0.69469	1317.293	916.4795
0.98982	1.00242	275.1208	269.0045	1.35248	0.02245	1.35248	277.6307	376.9586
0.75413	1.04248	335.8211	350.8777	-1.02462	0.90206	0.97597	326.4434	310.7498
0.12185	1.08843	3736.646	4076.771	2.00853	1.86E-18	2.00853	3367.693	6766.423
0.88835	0.93808	81.21419	76.16985	1.4788	0.19042	1.4788	116.354	170.2123
0.0018	1.23035	3581.575	4400.488	-1.80931	7.20E-06	0.5527	5548.565	2997.197
0.00323	0.68027	419.8789	283.1724	1.15552	0.17007	1.15552	331.2315	382.2181
0.00119	0.77066	632.3653	488.371	-1.11069	0.41707	0.90034	551.7012	493.9232
0.93079	0.98999	525.8093	525.2459	-1.45277	0.0002	0.68834	637.0527	439.915
0.01293	1.13379	1097.614	1243.714	1.0562	0.38584	1.0562	1160.78	1223.45
0.91549	0.97433	174.5465	172.5411	-1.21587	0.42514	0.82245	160.8846	131.7582
0.0172	1.15652	567.1409	655.9874	1.06323	0.41968	1.06323	627.5803	666.4946
0.03972	0.76565	2364.269	1805.192	-1.0337	0.73949	0.9674	2073.206	2003.541
0.91534	1.16097	18.74831	22.49144	1.37229	0.84597	1.37229	18.64473	37.90675
0.32436	0.8988	932.6466	831.9559	1.49351	8.17E-11	1.49351	802.3464	1199.183
0.63884	1.02419	1662.086	1702.332	1.91641	3.40E-25	1.91641	1407.564	2698.417
0.90292	1.00681	3209.088	3231.072	-1.35427	8.94E-10	0.7384	3142.312	2313.724
0.09048	1.0884	3708.032	4027.039	1.13438	0.00822	1.13438	3704.228	4207.213
0.18397	1.06959	6952.87	7451.14	-1.01529	0.82876	0.98494	8272.216	8116.007
0.89131	0.98206	1169.58	1157.343	-1.37624	4.30E-07	0.72662	1096.851	796.7678
0.15024	1.09307	3920.444	4301.753	-1.05245	0.46611	0.95017	4455.924	4232.802
0.05526	0.90446	1139.189	1030.372	3.54531	0	3.54531	1349.372	4780.699
0.90177	0.98541	413.8412	405.4016	-1.10844	0.33669	0.90217	398.2762	360.0264
0.9578	0.9931	427.2206	425.9601	-1.13601	0.41362	0.88028	366.7756	319.1805
0.62398	1.06073	1892.677	2007.625	-1.67417	5.98E-08	0.59731	2282.231	1361.775
0.11534	0.82711	605.5483	496.0366	2.55233	2.51E-15	2.55233	553.4428	1423.384
0.13651	0.89065	478.1822	425.7454	1.25978	0.0466	1.25978	410.8472	514.9058
0.87611	0.85311	43.91307	42.19677	-1.53097	0.73182	0.65318	36.64503	30.56525
0.7541	0.97023	434.4379	422.4149	1.033	0.77659	1.033	395.683	408.4943
8.85E-08	0.69808	1101.422	767.173	-1.09779	0.17788	0.91092	875.1448	798.1647
0.98981	1.00194	266.9048	265.6622	-1.03008	0.80993	0.9708	416.76	402.1591
0.32523	1.13206	416.133	466.235	1.36299	0.01099	1.36299	366.5696	497.1314
0.26139	1.10479	2105.421	2343.365	-2.23332	4.58E-09	0.44776	2295.802	1027.976
0.58441	1.05018	386.0183	405.9673	-1.04721	0.70499	0.95492	393.3716	373.9547

0.88518	1.01212	2726.585	2795.136	-1.03363	0.70081	0.96746	2927.865	2839.873
0.08871	0.88807	579.3463	514.1726	1.06151	0.47671	1.06151	527.7244	559.7629
0.234	0.8168	410.7424	328.9579	1.0627	0.62911	1.0627	299.8294	318.6152
0.11247	0.82195	3510.76	2877.453	1.82443	2.07E-11	1.82443	2673.342	4898.814
0.44424	1.11792	817.9621	914.4164	-1.02987	0.6718	0.971	2583.605	2491.919
0.99496	0.99346	38.43822	37.32615	-1.03259	0.97616	0.96844	36.10938	42.20021
0.61219	0.86999	110.2923	95.91327	-1.30744	0.69733	0.76486	67.89008	51.61772
0.83347	1.0216	959.5335	985.9625	-1.28195	0.005	0.78006	930.3569	723.5073
0.0739	1.12826	2762.68	3128.915	-1.35989	4.53E-06	0.73536	4615.64	3403.688
0.12218	1.07007	1811.311	1938.573	-1.0094	0.83807	0.99068	2074.245	2054.638
0.58762	1.03629	1007.366	1043.672	1.08665	0.16494	1.08665	811.1156	881.7523
0.80842	0.97396	8971.908	8850.189	1.78904	1.10E-16	1.78904	8761.73	15694.67
0.00005	0.79449	2639.758	2098.638	1.04529	0.33241	1.04529	2207.434	2307.141
0.00972	0.72745	2899.625	2101.203	1.21685	0.02602	1.21685	2233.818	2725.018
0.00599	1.29008	1091.279	1415.86	2.99278	5.28E-16	2.99278	1634.918	4969.878
0.18558	1.07696	3338.487	3582.035	1.10429	0.03184	1.10429	3673.841	4055.106
0.0001	0.62892	5442.491	3422.908	-5.45639	2.08E-20	0.18327	2320.078	425.2037
0.42137	1.05233	1448.594	1519.654	-1.02835	0.54734	0.97244	1629.56	1585.072
0.09309	1.17551	432.2181	507.3786	-1.08237	0.40952	0.9239	428.311	395.9665
0.03972	1.10535	1229.3	1358.156	1.00363	0.9454	1.00363	1480.998	1485.391
0.00314	1.31321	467.3092	611.143	1.58659	1.17E-11	1.58659	582.3001	923.0619
0.74444	0.9652	483.2723	463.2351	1.05139	0.5889	1.05139	417.6939	439.4989
0.54267	1.06403	539.9891	571.0698	-1.05409	0.50397	0.94868	503.0187	476.9064
0.40999	0.9507	1962.177	1864.344	-1.55961	6.29E-12	0.64119	1970.434	1265.683
0.0069	1.22586	2206.511	2695.714	-2.21373	3.09E-10	0.45173	3577.418	1592.56
0.75662	0.95124	357.2955	334.5682	1.48121	0.00002	1.48121	326.969	484.6566
0.81516	0.9842	549.2717	540.9751	-1.13436	0.12972	0.88156	555.5676	489.0584
0.11671	0.907	961.7196	870.4406	-1.06488	0.36258	0.93907	900.9417	845.5095
0.60199	1.04004	473.0152	491.9645	1.05981	0.38445	1.05981	1252.248	1332.447
0.7025	1.02014	1791.034	1822.646	1.29535	0.00002	1.29535	1604.778	2086.809
0.33946	0.88441	3658.255	3251.624	-1.45914	5.20E-09	0.68533	3247.459	2226.549
0.56869	1.06435	352.4857	374.6901	-1.07998	0.58208	0.92595	344.0095	316.7617
0.04726	1.34195	1050.043	1418.918	1.59136	7.54E-08	1.59136	929.5337	1485.983
0.84519	0.985	1179.039	1160.087	-1.00062	0.99094	0.99938	1019.964	1019.21
0.92464	1.00821	1682.745	1712.613	-1.02165	0.7579	0.97881	1647.945	1609.651
0.72983	0.97559	994.6661	969.3843	1.30327	0.00002	1.30327	819.9042	1067.474
0.95323	0.93273	30.50167	27.91911	1.1658	0.83113	1.1658	57.69651	70.32445
0.73792	1.04377	401.1218	418.8038	1.13041	0.32933	1.13041	487.3091	554.9185
0.31823	0.83237	544.4682	460.0735	-1.3744	0.00754	0.72759	378.5949	275.1652
0.53146	0.89893	274.6708	248.9258	-1.18652	0.43861	0.8428	245.644	203.8636
1	1	19.4115	25.18615	1.45859	0.8142	1.45859	18.58254	40.94313
0.61974	1.02507	2941.748	3022.628	-1.08341	0.06424	0.92301	3498.431	3228.245
1.93E-08	0.78014	2028.403	1582.197	-1.07131	0.12931	0.93343	1675.233	1563.811
0.32974	1.06546	3383.402	3592.497	-1.03174	0.51759	0.96924	3771.451	3657.32
0.89699	0.99099	8383.421	8342.982	1.21551	0.00002	1.21551	8506.129	10338.6
0.76836	0.95704	2927.186	2798.844	-1.59141	1.63E-23	0.62838	2976.681	1869.536
0.21024	1.08111	3866.654	4166.066	1.03452	0.46324	1.03452	4759.976	4923.737
0.22607	0.84612	922.0947	774.2238	1.41079	6.19E-08	1.41079	793.8397	1121.514
0.21057	1.11344	858.9627	954.2893	-1.04724	0.47237	0.9549	768.4318	733.2865
0.76357	1.01604	2275.631	2313.248	1.12067	0.01938	1.12067	2367.556	2652.189
0.45561	1.03602	1761.928	1824.144	-1.102	0.05037	0.90744	1876.163	1700.659
0.15015	0.78531	431.5085	332.1725	-1.13164	0.3298	0.88367	360.8517	317.8059

0.78528	1.04896	195.9278	205.5912	1.40884	0.00002	1.40884	419.1486	590.0826
0.30475	0.86876	681.3236	584.6645	1.08952	0.36714	1.08952	737.8559	806.7726
0.73731	1.45296	23.13353	33.043	-1.01843	0.99008	0.9819	25.62062	31.21082
0.14285	1.06653	3007.453	3208.918	2.1089	5.08E-17	2.1089	3002.038	6353.7
0.44856	0.85027	304.472	265.9592	-1.15447	0.42508	0.8662	240.5774	207.2422
0.91462	1.01016	4884.505	4976.916	-3.34093	0	0.29932	4263.26	1275.464
0.40997	0.90348	677.2389	605.7404	1.68359	9.65E-09	1.68359	595.626	1006.712
0.60163	0.95859	1261.268	1218.358	-1.04043	0.47328	0.96114	1147.551	1102.027
0.23107	0.76206	14167.45	10582.06	-2.2794	9.63E-10	0.43871	8634.573	3696.38
0.9526	1.0049	1459.718	1467.178	1.17911	0.0025	1.17911	1406.644	1657.198
1	1	17.73209	24.51196	1	1	1	17.64563	29.05346
0.8299	1.04095	597.1552	634.75	-2.35585	1.02E-09	0.42447	676.0269	284.1385
0.2086	1.17478	611.6135	726.751	1.10576	0.46306	1.10576	592.9597	650.0852
2.74E-30	0.446	3948.643	1762.433	-1.72894	1.64E-11	0.57839	3121.867	1811.759
0.64453	1.0439	518.233	543.449	1.03477	0.67403	1.03477	506.2684	524.2382
0.44073	0.92555	1499.78	1390.187	1.25078	0.00722	1.25078	1300.417	1630.333
0.79543	1.08352	136.8843	143.8559	1.1501	0.5475	1.1501	181.637	206.1036
5.73E-06	0.62277	524.1924	325.0297	1.29426	0.07103	1.29426	360.9089	469.8106
0.90888	0.98465	337.0807	330.2023	-1.11824	0.28837	0.89426	354.8209	317.4431
0.18044	0.86112	589.6699	503.6729	1.09927	0.43648	1.09927	520.2787	576.1181
0.66548	0.87166	124.7431	109.7885	-1.23059	0.58932	0.81262	114.4917	93.04387
0.50442	0.9227	7629.606	7108.669	1.32718	0.00033	1.32718	6719.999	8947.389
0.74492	0.93363	179.6523	166.0948	1.45883	0.09899	1.45883	169.1363	246.6016
0.47898	0.86448	157.6465	136.2638	1.11166	0.68187	1.11166	115.2736	128.2449
3.92E-08	1.48261	1947.139	2911.742	1.44657	7.40E-14	1.44657	3004.397	4343.191
0.37698	1.03713	7328.975	7602.508	-1.08993	0.15915	0.91749	7801.733	7161.836
0.08526	1.16661	571.2197	665.4458	-1.05353	0.48029	0.94919	755.8342	716.2053
0.69148	1.04435	382.0652	401.0865	1.33544	0.00343	1.33544	332.1211	443.1045
0.16108	1.08491	8167.983	8857.824	1.15143	0.00065	1.15143	9179.514	10569.47
0.00742	0.77121	6350.97	4935.376	1.16192	0.02692	1.16192	5423.4	6304.403
1.62E-06	1.4388	779.7061	1123.344	1.75772	0.00002	1.75772	696.1575	1225.287
0.97277	1.00249	567.6317	568.286	1.15886	0.0429	1.15886	559.2874	647.6492
0.99719	0.99954	645.3032	637.9685	1.05546	0.62371	1.05546	608.3235	644.7483
0.00031	0.78197	2607.17	2047.853	1.22152	0.00015	1.22152	3111.501	3793.495
0.07063	0.9165	3356.852	3076.654	-1.05716	0.40725	0.94593	3146.697	2973.892
1.20E-26	0.58456	1809.863	1057.839	-1.62036	4.36E-13	0.61715	1505.223	928.5349
0.9529	0.9933	914.3705	913.0637	-1.45464	0.00018	0.68746	1059.856	723.5949
0.45495	1.10558	1131.122	1259.633	1.39056	0.00007	1.39056	1067.022	1488.612
0.094	0.77128	1342.776	1013.287	1.29052	0.0318	1.29052	1072.808	1398.621
0.35718	0.88224	447.1169	398.2582	-1.6343	0.13044	0.61188	235.0936	145.5963
0.53143	0.90013	188.2106	168.9903	-1.06994	0.74964	0.93463	169.6792	158.8095
0.0195	1.14606	2756.088	3156.406	-1.00039	0.9945	0.99961	2806.835	2803.469
0.40046	0.92905	1660.24	1531.849	-1.12485	0.08181	0.889	1750.094	1553.094
0.85759	1.00866	3398.044	3419.573	-1.00132	0.98023	0.99869	3460.338	3466.96
0.08627	1.15262	729.7932	838.1279	1.06983	0.22681	1.06983	847.0436	906.5077
0.58792	1.03461	1249.274	1296.493	-1.05889	0.42784	0.94438	1291.573	1218.67
0.50538	0.84603	355.4866	290.7415	1.80086	0.00926	1.80086	257.4898	463.1825
0.93911	1.00528	2070.296	2079.4	-1.93409	6.82E-20	0.51704	1990.641	1027.659
0.76667	1.0188	1565.683	1602.615	-1.03107	0.62451	0.96987	2230.349	2162.182
0.55714	0.96703	1313.791	1274.15	-1.1592	0.03501	0.86266	1238.787	1065.647
0.00115	0.5459	5160.072	2716.286	-1.11339	0.38665	0.89816	3316.832	2993.892
0.00019	1.2407	4195.653	5219.655	-1.59277	0.00226	0.62784	5941.759	3651.724

0.87927	1.079	59.19287	63.94036	-1.00265	0.99552	0.99736	91.12547	90.06418
0.83594	0.91214	105.969	95.79374	-1.19046	0.59853	0.84001	107.9245	90.79669
0.82222	0.9218	97.0688	89.64705	1.06078	0.9309	1.06078	55.69581	60.50481
0.61428	0.89611	265.4887	231.1003	1.56594	0.00469	1.56594	219.8601	345.7194
0.51977	0.85858	241.9333	201.7841	1.2051	0.24113	1.2051	206.7997	249.7089
0.82992	0.96392	594.5049	580.3262	-1.63148	0.00001	0.61294	494.5974	302.3401
0.52045	1.06568	1057.496	1120.674	1.22039	0.00055	1.22039	1112.716	1359.642
0.56214	1.06676	306.7341	328.0868	1.18151	0.2357	1.18151	274.571	323.8973
0.02968	0.79459	1333.267	1057.643	1.00132	0.99175	1.00132	1394.176	1398.376
0.18335	1.10959	730.5552	813.9043	1.14834	0.09176	1.14834	768.741	880.6222
0.13602	0.82329	291.1643	240.6123	5.4237	0	5.4237	239.0736	1303.321
0.51064	0.89827	209.368	188.1721	2.89201	9.79E-12	2.89201	188.0281	539.6324
0.00106	0.61666	581.4247	353.1811	-1.23008	0.12024	0.81295	382.4219	312.5261
0.30836	0.90958	550.147	502.4382	-1.13339	0.27885	0.8823	531.6472	466.2318
0.80708	1.01657	2490.743	2543.019	-1.03139	0.65799	0.96957	2541.086	2455.519
0.09415	0.92464	4976.7	4604.689	1.59619	9.30E-20	1.59619	4587.127	7330.802
0.345	0.81113	166.9955	134.5585	1.60254	0.01894	1.60254	145.6366	234.3694
0.92402	0.98886	3751.209	3705.161	-1.22965	0.03774	0.81324	4525.369	3652.961
0.60901	1.04388	1147.51	1194.34	1.31425	0.0001	1.31425	1076.608	1415.853
0.80405	0.95342	2159.122	2028.38	-2.73583	1.08E-13	0.36552	2415.488	878.6658
0.70517	1.02493	1300.952	1334.786	-1.23999	0.0009	0.80646	1017.804	821.5479
0.73959	1.03284	1019.287	1043.589	1.48422	7.59E-10	1.48422	979.8593	1456.491
0.99449	0.9987	182.7868	183.213	1.43505	0.23344	1.43505	162.9473	227.662
0.69753	0.95046	5304.991	5062.635	-1.1326	0.06752	0.88292	5377.257	4755.782
0.00106	0.68482	2846.29	1935.082	-1.68288	7.51E-06	0.59422	2151.117	1278.262
0.01999	0.81248	4223.886	3442.707	1.24922	1.47E-06	1.24922	3557.837	4444.354
0.54329	1.04631	1763.244	1854.756	-1.13811	0.03587	0.87865	1652.439	1452.1
0.76066	0.9625	4591.356	4413.161	-1.5742	2.19E-20	0.63524	4951.199	3143.903
0.3493	1.10319	1218.699	1342.164	-3.41669	1.89E-15	0.29268	1080.853	316.6513
0.95378	0.99651	6560.439	6529.875	1.0453	0.48665	1.0453	6156.865	6434.704
0.65552	0.97414	2377.02	2327.116	-1.22979	0.00456	0.81315	2419.298	1974.595
0.92674	0.9861	1049.438	1042.369	-1.62567	0.00079	0.61513	1204.643	741.0118
0.08166	0.8593	2542.167	2191.564	4.83733	0	4.83733	2227.89	10824.93
0.84364	1.02746	241.1503	248.3377	2.4434	3.86E-14	2.4434	247.7637	603.9699
1	1	18.28328	23.94161	5.16652	0.0174	5.16652	21.52061	111.0648
0.86684	1.03789	206.4391	215.4904	-1.10474	0.72649	0.90519	162.83	145.191
0.71693	0.78878	51.32939	41.03414	1.2883	0.78204	1.2883	47.51357	58.49198
0.72369	1.06321	8138.269	8445.846	-2.72102	4.19E-32	0.36751	10326.1	3772.183
0.00008	0.66893	1419.292	943.4365	-1.48373	1.43E-06	0.67398	1050.716	709.7727
0.67396	0.96628	1478.422	1426.891	-1.71613	2.37E-17	0.58271	1518.54	883.7258
0.86566	0.88662	56.41663	49.53493	1.0779	0.92468	1.0779	43.54233	47.38612
0.53854	0.93601	554.4182	515.2481	-1.0378	0.66901	0.96357	466.817	449.9824
0.79213	1.0831	113.3674	122.9934	1.3026	0.48292	1.3026	157.1165	184.8973
0.02016	1.33891	3472.723	4591.13	-2.39315	9.66E-09	0.41786	6011.919	2427.571
5.39E-06	0.65264	1142.005	743.0377	-1.07666	0.47533	0.92879	897.2456	829.689
0.10267	1.09672	5138.921	5650.938	1.03107	0.65833	1.03107	5522.494	5691.083
0.76889	0.9664	2955.598	2922.531	1.17543	0.02084	1.17543	3122.764	3653.986
0.72602	0.88414	107.8326	96.83038	-1.29781	0.33073	0.77053	170.5034	132.4222
0.96332	0.98195	76.80411	75.03297	1.30276	0.68491	1.30276	71.9684	90.22134
0.20105	1.0659	3049.191	3243.625	1.06498	0.25819	1.06498	3414.142	3648.704
0.0219	1.17502	961.098	1134.971	1.00795	0.89646	1.00795	2340.717	2367.257
0.92455	1.007	2053.54	2064.246	1.17807	0.02774	1.17807	1773.588	2086.916

0.13651	0.88333	562.9923	498.1554	1.84798	0.00003	1.84798	467.9124	860.4317
0.40185	1.05314	965.6329	1014.66	-1.10117	0.12999	0.90812	994.1412	903.5109
0.5271	0.92797	786.9249	724.3701	1.12711	0.11721	1.12711	699.9328	790.5393
0.87005	0.98901	686.317	678.1421	1.03163	0.51128	1.03163	1454.009	1500.426
0.58273	1.05573	737.9929	774.4238	1.63818	1.26E-14	1.63818	746.2911	1223.581
0.34432	1.22373	182.5184	219.6155	1.6293	0.00803	1.6293	148.3765	241.7687
0.87516	0.98844	867.916	861.0584	-1.11309	0.10634	0.8984	976.3838	876.0844
0.1208	1.06947	4625.542	4951.751	-1.03922	0.45206	0.96226	4487.027	4307.871
0.13337	0.80388	483.1892	393.1567	-1.65199	0.00017	0.60533	396.6871	239.4108
0.18631	0.91196	3890.37	3543.569	1.46354	5.78E-17	1.46354	3265.681	4780.098
0.38878	0.95052	869.7231	827.6184	-1.09511	0.19696	0.91315	797.5145	729.3346
0.97393	0.98707	113.1034	106.8399	2.26456	0.00013	2.26456	116.0048	262.2334
0.18632	0.73552	12273.87	8670.186	-3.2589	4.05E-22	0.30685	9242.406	2732.658
0.82493	0.96627	242.9543	234.0162	1.11975	0.5417	1.11975	195.6634	218.961
0.49606	1.12744	367.8212	427.3652	-1.62618	0.00004	0.61494	443.3096	271.9513
0.78023	0.95305	203.7261	194.9333	-1.32838	0.32013	0.7528	198.1451	148.1249
0.19921	1.05733	4151.621	4389.159	-1.16105	0.00295	0.86129	4380.573	3767.336
0.81917	1.01666	683.9166	693.7269	1.18886	0.04084	1.18886	682.8115	809.5634
0.53198	0.88435	186.9695	165.5865	1.0516	0.76744	1.0516	220.2068	232.5175
0.85421	0.98595	657.9812	647.1862	-1.05068	0.53373	0.95177	628.8794	597.4856
0.00701	1.14907	1530.648	1760.187	-1.04974	0.393	0.95262	2727.591	2602.939
0.15087	1.07418	3992.108	4298.52	-1.01016	0.81028	0.98995	3912.25	3873.836
0.19661	0.8452	345.2416	293.85	1.04026	0.79888	1.04026	444.8867	454.7892
0.11083	0.69605	158.8047	110.4478	-1.20101	0.59164	0.83263	132.2035	108.6312
0.95668	1.0071	823.1952	839.3319	-1.32848	0.00297	0.75274	544.5028	410.826
0.97688	0.99007	120.693	121.7072	-1.00555	0.99262	0.99448	83.24004	78.37709
0.00824	0.6379	11727.82	7348.887	1.18974	0.22309	1.18974	9784.002	11673.1
0.00009	0.79787	1913.393	1526.473	1.33127	0.00003	1.33127	1543.262	2054.188
0.35746	0.92583	434.2444	402.5392	-1.10321	0.38056	0.90644	403.6205	365.1765
0.29341	1.0631	1336.891	1424.873	-1.03337	0.63966	0.96771	1483.108	1433.311
0.32791	0.9272	984.1277	911.2827	-1.17669	0.05629	0.84984	817.8418	696.8098
0.50961	1.04753	783.6337	823.0244	1.15	0.05681	1.15	833.3784	957.4096
0.77499	1.03609	453.9554	466.053	1.09516	0.47087	1.09516	422.8035	465.4917
0.17735	0.80153	707.6044	556.7437	1.51237	0.00053	1.51237	578.1893	881.2454
0.46194	0.87423	4432.832	3816.503	-2.75089	0	0.36352	5606.98	2036.259
0.79301	0.95055	190.7991	180.0092	-1.05795	0.77892	0.94522	172.226	162.7905
0.74413	1.01892	3041.897	3107.516	1.09971	0.10577	1.09971	3116.874	3426.644
0.97504	0.99821	4140.287	4123.476	1.21478	2.35E-06	1.21478	4149.832	5041.116
0.00156	0.78776	18713.09	14803.21	1.07132	0.13043	1.07132	21429.52	22951.5
1	1	19.16866	23.60266	1	1	1	18.48507	33.00957
0.05881	1.10957	2866.596	3160.334	-1.05077	0.37493	0.95168	4542.042	4315.879
0.33725	0.86511	5388.385	4729.732	1.09555	0.39034	1.09555	4756.666	5221.341
0.45832	1.083	378.2312	410.9062	1.00101	0.99337	1.00101	391.9139	394.1936
0.00686	0.77202	1043.246	803.7028	-1.04518	0.43064	0.95677	888.5312	850.3452
0.43215	0.85099	459.4774	380.6448	-1.27485	0.20528	0.78441	401.667	319.6299
0.01355	1.26918	6900.348	8673.979	-2.09612	3.60E-11	0.47707	10651.57	4963.349
0.48614	0.95403	1898.551	1818.75	-1.38281	0.00004	0.72317	2025.089	1460.657
0.12248	0.89116	1281.816	1143.582	-1.12708	0.20489	0.88725	920.839	813.1151
0.0008	1.30263	926.218	1207.245	1.54627	0.00011	1.54627	749.098	1157.34
0.6736	0.96592	1244.091	1199.208	1.30669	0.00095	1.30669	1003.761	1314.959
0.77515	1.02214	2026.487	2060.474	-1.06383	0.2598	0.94	2179.691	2050.654
0.9904	1.00104	1181.43	1190.375	-1.02715	0.67538	0.97356	1135.924	1105.833

0.73205	0.96842	1860.293	1816.474	-1.13981	0.14247	0.87734	1814.741	1587.515
0.73526	0.96581	369.9314	356.1919	1.42682	0.00068	1.42682	364.0536	517.9125
1.38E-17	0.59104	1493.388	882.868	-1.26821	0.03771	0.78851	1124.659	878.6522
0.48559	0.96005	4640.087	4460.25	-1.17075	0.02693	0.85415	3860.793	3295.675
0.77108	1.07279	130.3991	140.8826	1.22863	0.39109	1.22863	138.3207	169.1609
0.6237	1.02855	1189.535	1220.518	-1.02491	0.68477	0.9757	1148.244	1118.688
0.03136	1.31771	25900.44	33437.04	-2.53432	1.66E-16	0.39458	40782	15802.24
0.05843	0.91563	19520.81	17861.69	1.43199	8.54E-11	1.43199	19184.75	27509.54
0.30335	0.91974	1547.901	1424.296	1.71837	1.40E-22	1.71837	1350.152	2321.953
0.91475	1.01423	451.6509	463.5081	-1.16859	0.22496	0.85573	559.3306	475.3177
0.01734	0.70399	2312.877	1609.119	1.23522	0.09269	1.23522	1956.437	2435.12
0.00459	1.24527	188955.8	235596.5	-1.61563	4.34E-09	0.61895	233161.2	144900.1
0.85721	0.97014	911.9703	891.1405	-1.68454	1.07E-07	0.59363	1181.321	697.3712
0.08717	1.11595	2507.56	2790.875	1.1475	0.00345	1.1475	3012.523	3458.69
0.01468	0.81823	2352.102	1921.171	1.49436	9.80E-06	1.49436	2137.309	3211.798
0.98412	1.00293	213.5407	214.5437	-1.29524	0.15027	0.77206	219.3619	169.634
0.5163	0.96188	761.0498	731.6969	-1.0086	0.91585	0.99147	733.4931	725.7494
0.01165	0.80318	2699.414	2169.562	-1.05531	0.31266	0.94759	2277.925	2157.651
0.26501	0.9095	433.1202	394.3858	-1.05754	0.71501	0.94559	408.7016	387.3474
0.86664	1.09979	77.6922	79.01332	1.163	0.54801	1.163	131.7947	153.1708
0.00001	0.50606	1104.604	548.7826	-1.23278	0.01056	0.81117	955.8826	777.1008
0.14053	1.37612	174.2636	234.9529	-1.22955	0.44404	0.8133	153.2469	124.8328
0.23281	1.06024	1825.616	1935.69	-1.11685	0.04148	0.89538	1855.66	1662.518
0.1651	1.20369	198.5201	239.0923	1.21318	0.28807	1.21318	216.547	264.7946
0.45219	0.96575	3144.314	3035.016	-1.0279	0.63322	0.97285	3171.18	3086.129
0.30979	1.05616	2437.151	2573.371	1.17651	0.03654	1.17651	2353.269	2766.412
0.05317	0.79212	1002.418	789.0231	1.05609	0.50861	1.05609	974.0648	1033.72
0.41305	0.90658	346.6559	315.7697	1.07792	0.61057	1.07792	264.9631	285.8106
2.17E-14	0.70243	2225.345	1563.087	-1.41718	2.40E-08	0.70563	1768.372	1246.481
0.31053	0.87789	585.0846	507.9593	1.00531	0.9714	1.00531	512.8575	519.9121
0.97739	1.00248	1152.387	1149.019	-1.1425	0.27878	0.87527	1142.785	1007.158
0.03735	0.74415	3041.131	2272.458	1.3694	0.0001	1.3694	2565.376	3524.8
0.00167	0.66454	3356.443	2222.013	1.45989	1.03E-14	1.45989	2686.437	3923.104
0.82281	1.0148	1446.719	1469.815	1.3942	1.67E-08	1.3942	1313.294	1833.18
0.47859	1.07069	787.6136	838.0193	-1.09041	0.19139	0.91709	795.3452	728.89
0.84544	1.0389	171.3577	177.4977	1.15925	0.53809	1.15925	124.5628	144.3016
0.03509	0.69866	757.049	528.9183	-1.69767	8.04E-07	0.58904	687.2811	406.0173
0.54374	0.9409	1999.236	1880.961	2.08112	2.04E-15	2.08112	1912.714	3973.446
0.00336	0.79109	8924.524	7037.715	1.17611	0.02647	1.17611	7483.942	8835.218
0.74445	1.04128	317.6174	328.7966	1.51702	0.03956	1.51702	293.4515	436.7974
0.61456	1.03437	914.0194	945.0129	-1.04595	0.51482	0.95606	695.6168	665.6242
0.71906	0.91661	166.7194	155.1559	1.13488	0.65133	1.13488	138.0892	156.3536
0.00142	1.25426	5273.672	6571.353	-1.83774	5.31E-09	0.54415	8699.594	4691.533
0.09346	0.8227	1667.259	1372.164	-1.0153	0.85032	0.98493	1465.419	1443.552
0.05944	1.16157	2056.78	2384.921	1.35172	2.89E-10	1.35172	2059.321	2782.339
0.55891	1.07597	214.6357	230.9695	1.00977	0.94609	1.00977	349.6415	350.0815
0.01723	0.74372	3575.628	2659.913	-1.09889	0.14508	0.91001	2762.258	2515.246
0.02412	0.77146	3224.876	2485.495	-1.05445	0.57536	0.94836	2923.189	2767.96
0.03187	0.71823	893.4296	632.5925	1.21243	0.0015	1.21243	781.3603	948.058
0.65214	0.95896	938.0343	903.7638	-1.08819	0.45856	0.91895	971.1085	889.3557
0.5752	1.11485	173.503	193.0005	1.08195	0.77629	1.08195	172.2539	185.3608
0.76609	0.98511	1374.116	1355.186	-1.10964	0.03228	0.90119	1373.901	1238.396

0.77976	0.94386	213.3601	198.8303	1.25167	0.2623	1.25167	201.5383	254.9157
0.57929	1.0733	353.5272	376.9403	-1.04298	0.77408	0.95879	394.0157	377.6425
0.00052	0.70688	574.6086	404.0971	-1.2864	0.02691	0.77736	443.4419	344.1583
0.45268	0.79643	141.4269	110.6489	-1.15466	0.66077	0.86605	117.3069	102.1974
0.38045	0.86479	684.5669	600.4149	1.21384	0.17242	1.21384	518.6119	634.114
0.00023	0.7599	6436.009	4929.384	1.0264	0.63777	1.0264	5596.349	5738.542
0.29134	0.86063	438.3286	372.0721	1.00025	0.99822	1.00025	414.1146	415.7233
0.09689	0.85509	467.2082	400.7374	-1.46609	0.02497	0.68209	293.817	201.6042
3.59E-06	0.78769	1811.481	1426.77	1.10108	0.06113	1.10108	1548.568	1704.145
0.2503	1.17155	301.9378	357.2296	1.26419	0.00427	1.26419	536.4049	677.1964
0.03992	0.7765	2191.844	1694.498	-1.15229	0.21752	0.86784	2096.58	1802.242
0.00089	1.15415	8631.427	9961.234	-1.19664	0.00067	0.83567	8929.95	7463.003
0.43096	1.04991	1238.77	1300.5	1.50627	8.01E-13	1.50627	1104.486	1663.233
0.19157	1.12944	1774.68	1995.05	-1.64116	4.85E-07	0.60932	2067.489	1246.201
0.5759	0.94535	1146.852	1085.567	1.27337	0.02051	1.27337	1312.938	1666.179
0.00019	0.65836	8277.849	5422.57	-1.24872	0.11392	0.80082	6377.738	5045.428
0.76451	1.01467	1736.943	1764.802	-1.08583	0.16338	0.92096	1621.044	1489.266
0.87067	0.85672	46.03297	38.87354	1.13218	0.82966	1.13218	60.27457	67.32299
0.59764	0.92423	356.3706	329.4261	-1.11719	0.46139	0.8951	281.0174	250.5526
0.00539	0.68279	1241.462	846.1655	-1.11934	0.03962	0.89338	920.9291	822.8017
0.73971	1.04516	4509.937	4729.498	-1.6348	6.84E-10	0.6117	4196.243	2581.612
0.77017	1.03394	1764.86	1837.054	-1.42595	5.84E-06	0.70129	1395.588	976.8069
0.2811	0.78685	207.7826	161.2461	3.14196	7.14E-21	3.14196	151.1689	474.8904
0.99633	1.00039	640.3897	642.7125	-1.13794	0.15211	0.87878	607.5432	532.5566
0.21066	0.92831	3971.855	3683.86	1.09959	0.02053	1.09959	3920.169	4310.459
0.93019	0.99066	428.0169	422.9733	-1.06733	0.42641	0.93691	487.9521	456.9441
0.24926	0.92578	3290.774	3055.906	1.48154	2.53E-09	1.48154	3318.897	4940.723
0.00003	0.7531	2345.079	1768.507	1.62092	7.14E-26	1.62092	2013.906	3264.268
0.29343	1.0593	1654.523	1751.531	1.1674	0.20133	1.1674	1519.927	1756.445
0.73637	0.96154	459.316	437.9001	-1.48456	0.00011	0.6736	459.254	309.7528
0.45953	0.77443	140.4061	112.2333	-1.29312	0.58169	0.77332	103.4032	81.71519
0.40107	1.08865	464.6102	503.0764	1.10301	0.21985	1.10301	473.394	521.7825
0.59432	0.84006	114.6709	97.67358	1.25865	0.47229	1.25865	105.91	134.0911
0.98787	0.99848	1037.137	1025.25	-1.0925	0.28528	0.91533	952.4962	874.8915
0.02149	0.58969	599.2545	345.1005	-1.08093	0.7184	0.92513	441.463	416.3986
0.12393	1.09894	3420.567	3762.979	1.11552	0.09653	1.11552	3698.649	4123.879
0.75011	0.98165	1890.729	1862.071	-1.04292	0.47527	0.95885	1977.042	1894.425
0.3897	1.03741	3055.668	3171.185	-1.06285	0.17173	0.94087	3420.116	3218.071
0.39056	1.09798	921.4036	1021.344	-1.15055	0.02253	0.86915	1913.57	1659.755
0.85854	1.0169	2388.092	2423.743	2.39256	0	2.39256	2304.269	5513.43
0.0587	0.7898	5292.26	4171.609	1.29573	0.01497	1.29573	4147.48	5417.732
0.35949	1.06314	558.5123	593.9479	1.12452	0.26682	1.12452	508.3668	574.4486
0.38968	0.91376	332.2059	302.9622	1.08823	0.52939	1.08823	351.3687	380.2898
0.76352	0.94566	185.2105	175.1146	1.22521	0.20886	1.22521	334.392	402.7722
0.30056	0.88568	987.5602	869.1522	1.34446	3.04E-06	1.34446	909.2972	1222.34
0.9301	1.00476	14426.88	14492.55	1.5228	1.99E-09	1.5228	14367.22	21893.63
0.69141	0.9503	601.8588	565.6244	1.7947	3.89E-13	1.7947	473.111	850.6715
0.46062	0.95346	1127.344	1073.964	1.39065	1.80E-09	1.39065	1019.276	1416.974
0.38294	0.89845	349.4902	315.7228	1.02417	0.89004	1.02417	306.8048	315.1923
0.01784	0.69226	791.5104	539.4547	-1.00316	0.97368	0.99685	698.3358	698.8038
0.61327	0.96757	1207.112	1164.037	1.11492	0.22509	1.11492	1013.463	1134.677
0.81605	0.98527	1024.461	1010.802	-1.08212	0.28748	0.92411	987.4065	909.9467

1.29E-22	0.64052	5694.604	3646.955	-1.75277	4.96E-10	0.57052	5191.032	2963.229
0.59177	0.91739	295.7206	267.9354	1.37646	0.00739	1.37646	256.5917	353.6526
0.16682	0.85941	8141.264	6990.773	1.43137	0.00211	1.43137	7426.203	10678.23
0.83855	1.0144	2119.345	2156.509	-1.13426	0.06285	0.88164	2868.191	2551.313
0.61011	0.90275	203.2345	181.8859	1.02865	0.89185	1.02865	209.8129	217.7507
0.84248	1.02155	893.6959	919.7085	-1.08494	0.19992	0.92171	779.4433	717.9274
0.70855	1.0208	4953.266	5074.78	1.01119	0.8414	1.01119	4965.035	5017.409
0.1399	0.86675	4285.167	3717.75	1.53488	6.31E-07	1.53488	3921.819	6025.864
0.40815	1.16742	217.6599	258.2312	-2.0075	0.01212	0.49813	226.5438	114.6435
0.23232	1.05473	2479.166	2612.99	1.06447	0.22462	1.06447	2545.688	2712.249
0.35539	1.0622	4134.722	4389.446	-1.01668	0.7027	0.9836	4446.521	4371.135
0.00576	0.80846	1311.619	1056.409	1.23613	0.00011	1.23613	1906.623	2358.504
0.13596	1.07069	3153.187	3380.839	-1.16515	0.01507	0.85826	3518.899	3027.855
1.72E-10	0.74172	54494.57	40412.32	-2.19016	0	0.45659	51783.36	23639.28
0.86186	0.92557	102.2001	101.47	-1.0722	0.76726	0.93266	154.0687	143.6617
0.57444	1.03847	1006.646	1049.159	1.01072	0.89322	1.01072	987.2662	993.9644
0.81508	1.07571	89.82564	96.40858	-1.10663	0.82906	0.90364	111.7221	102.4013
0.01188	1.17699	2408.459	2839.539	1.94645	2.36E-23	1.94645	2346.69	4575.118
0.03721	0.70818	8261.349	5769.387	-1.14612	0.14125	0.87251	6391.778	5559.945
0.36599	1.14083	273.3138	313.7053	1.58825	0.08416	1.58825	246.8568	385.2091
0.00032	0.61747	18166.71	11017.05	-1.51838	0.0003	0.6586	13834.83	9140.124
0.00063	0.62317	668.5195	410.851	-1.11914	0.14602	0.89354	532.346	475.9375
0.89566	1.01239	575.2613	581.9093	-1.06513	0.48305	0.93885	655.0913	613.148
0.64537	1.0284	2969.725	3064.083	-1.07897	0.17748	0.92681	3191.725	2967.708
0.43894	0.91261	1346.794	1242.742	-1.13075	0.02425	0.88437	1072.19	948.4165
0.1708	1.09214	1779.923	1934.579	1.02151	0.70012	1.02151	1919.004	1965.041
0.00124	1.20779	5337.58	6446.627	-1.83593	3.91E-11	0.54468	6176.461	3329.07
0.91113	0.98865	543.6824	540.477	1.07638	0.16865	1.07638	1009.788	1087.136
0.28171	1.10559	704.3325	782.5468	-1.39867	0.00003	0.71497	690.2212	492.8868
0.21347	0.89903	1605.166	1450.575	1.113	0.09196	1.113	2041.279	2274.366
0.00124	0.69436	3647.622	2522.767	1.21523	0.02659	1.21523	2938.434	3584.576
0.71805	1.06477	192.1779	203.8327	1.26739	0.20691	1.26739	195.359	247.6843
0.54475	1.04787	447.8044	468.7775	-1.08674	0.51094	0.92018	456.2773	416.8074
0.99095	1.00104	382.6252	382.6262	-1.38958	0.07112	0.71964	400.6371	289.7992
0.10417	1.10963	1042.39	1158.544	-1.04198	0.70366	0.95971	1162.485	1110.304
0.70917	1.02319	937.3871	958.7207	-1.15807	0.034	0.86351	893.1085	770.0971
0.06366	1.17017	2677.277	3145.983	1.8309	1.78E-25	1.8309	2350.471	4296.211
0.09963	1.10128	2126.298	2336.333	1.0031	0.94848	1.0031	2516.382	2526.154
0.34612	1.04483	2289.423	2393.833	-1.02559	0.65375	0.97505	2543.573	2477.211
0.75874	0.95033	10850.81	10199.85	-2.06992	1.17E-35	0.48311	11728	5666.616
0.20757	0.80906	334.6617	265.7293	1.04951	0.61468	1.04951	497.7824	521.2796
0.07897	1.19373	2624.753	3159.837	-1.41613	0.00024	0.70615	3531.422	2484.408
0.11974	1.14221	932.6283	1063.236	1.20595	0.00258	1.20595	819.2778	987.3789
0.15636	0.80929	2866.458	2304.452	1.34817	0.0166	1.34817	2362.908	3220.067
0.07624	0.82954	475.0133	391.9984	-1.25189	0.11638	0.79879	376.8425	302.1538
5.36E-07	0.62753	4058.202	2533.463	2.30292	1.08E-16	2.30292	3029.391	7043.907
0.00057	1.28551	1770.523	2269.13	1.99817	9.65E-10	1.99817	1608.9	3236.147
0.16343	1.05868	75945.06	80407.27	-1.44196	1.12E-14	0.6935	82103.92	56948.98
2.02E-06	0.53522	2080.863	1089.199	-1.02674	0.81995	0.97396	1356.169	1331.735
0.62845	1.04264	1498.356	1574.596	-1.25961	0.00005	0.79389	1505.224	1193.281
0.5766	0.96232	2650.153	2548.613	2.26592	3.39E-18	2.26592	2115.171	4816.74
0.53888	0.90619	278.8156	255.3872	-1.01793	0.92148	0.98239	221.1142	218.3445

0.45647	0.83716	487.5461	423.5916	-2.0176	1.26E-07	0.49564	447.8525	222.7447
1.08E-06	1.22371	19611.4	24050.89	2.90668	5.94E-30	2.90668	21022.4	61478.2
0.32102	1.08114	869.5692	935.973	1.0027	0.96649	1.0027	1103.925	1108.232
0.29444	0.81704	199.0062	161.7353	1.0869	0.67516	1.0869	175.4724	190.9877
0.6345	0.89881	127.8526	114.8936	1.24875	0.38131	1.24875	127.0754	158.6497
0.07714	0.78302	1005.91	782.8421	1.02941	0.7775	1.02941	1058.778	1091.362
0.00977	1.18908	563.3086	670.0024	-1.74025	3.08E-08	0.57463	733.8596	420.0729
0.31608	1.07446	1112.437	1191.36	-1.04726	0.51727	0.95488	1081.998	1035.267
0.14738	1.12744	15142	17085.8	-1.90488	4.78E-13	0.52497	20302.07	10515.8
0.18374	1.10177	1207.589	1334.73	-1.06499	0.356	0.93897	1748.295	1636.942
0.07325	1.26252	14816.62	18649.05	-2.72506	8.21E-16	0.36696	21868.66	7821.308
0.45099	0.94211	940.9275	884.1024	1.63438	4.75E-12	1.63438	857.3796	1403.787
0.48124	1.04613	860.9485	902.6538	-1.22593	0.00947	0.81571	802.0618	653.0448
0.00256	1.10842	1213.569	1345.619	1.13077	0.00083	1.13077	1308.499	1478.936
0.40965	0.9164	513.9687	468.0483	1.06218	0.55215	1.06218	467.0212	497.2894
0.23517	1.07903	3057.329	3288.175	1.07239	0.14882	1.07239	3473.054	3728.877
0.29868	1.09211	416.5292	454.4533	-1.14791	0.14101	0.87115	476.5542	415.3781
0.96831	0.99813	1986.426	1982.226	1.35286	1.74E-06	1.35286	1676.963	2266.455
0.55758	0.95553	3395.125	3261.008	1.23964	0.00035	1.23964	3021.353	3742.142
0.1756	1.11168	4204.359	4692.217	1.37751	5.71E-10	1.37751	3679.414	5071.066
0.45035	1.04457	1282.245	1341.197	-1.12728	0.01965	0.88709	1610.474	1428.277
0.80822	1.05074	706.7359	758.9591	-3.19746	5.55E-10	0.31275	463.9448	146.9832
0.05062	0.80741	12695.47	10343.23	3.14245	0	3.14245	10931.53	34354.05
0.00726	0.71433	5375.512	3834.637	1.07913	0.3706	1.07913	3715.94	3996.229
0.97553	0.99606	434.4608	430.2871	-1.0851	0.50602	0.92158	392.4168	360.7786
0.51479	1.03863	3090.635	3214.803	1.11824	0.12307	1.11824	3144.46	3519.099
0.48869	0.92364	274.8992	253.7542	1.10259	0.6076	1.10259	233.665	260.5322
0.10099	1.13759	1551.371	1773.209	1.04828	0.49483	1.04828	1698.717	1777.682
0.02421	0.83804	961.0337	802.053	1.07545	0.27007	1.07545	874.2184	940.8832
0.08516	0.83954	4953.785	4169.146	-1.34569	0.00133	0.74311	4269.32	3159.97
0.20813	1.06957	1987.781	2126.249	-1.39424	0.00724	0.71724	2122.525	1522.353
0.94985	0.96528	74.32908	69.00912	1.07603	0.90441	1.07603	59.9088	64.61452
0.03582	0.7246	300.9934	216.4164	1.42756	0.04462	1.42756	249.3877	351.7466
0.35523	1.17601	187.3958	218.9071	1.19183	0.37032	1.19183	159.1541	189.3805
0.0538	0.89723	1580.96	1416.351	1.05443	0.49238	1.05443	1366.615	1442.641
0.56218	1.09318	307.3886	331.4042	1.99047	3.78E-07	1.99047	253.9597	508.3785
0.54949	0.90832	354.7708	327.8325	-1.63517	0.06744	0.61156	234.0983	145.6383
0.76395	1.01522	2055.568	2082.881	1.12655	0.04243	1.12655	2496.359	2811.553
0.90694	1.00927	586.6257	591.0242	1.1798	0.01082	1.1798	1210.016	1430.769
0.50628	1.08156	569.3614	621.4662	1.17539	0.27048	1.17539	472.0243	559.6047
0.11657	1.07187	2533.727	2717.155	-1.13413	0.00502	0.88173	2713.435	2391.511
0.03494	0.76047	4965.009	3774.106	1.12669	0.28843	1.12669	3943.281	4456.792
0.66966	0.95713	583.6561	555.1766	1.94047	6.48E-19	1.94047	571.7159	1108.581
0.00399	0.75624	5285.42	3980.598	1.15834	0.02856	1.15834	5218.804	6054.06
0.43679	1.05745	5218.285	5519.422	1.01416	0.81891	1.01416	4642.339	4718.716
0.0064	0.67303	783.8362	519.6823	1.73126	0.00034	1.73126	595.6539	1047.804
0.08542	0.71151	1705.334	1215.532	-2.6399	0.00037	0.3788	521.1921	197.4289
0.00122	0.63959	5465.385	3474.023	-1.13392	0.24002	0.88189	4309.339	3801.876
0.56143	1.10568	185.4526	205.0489	1.48393	0.16322	1.48393	123.7052	186.0376
0.22341	0.93337	1356.041	1266.977	1.04062	0.46751	1.04062	1341.696	1395.105
0.32254	1.05634	844.4764	891.3471	-1.00824	0.89972	0.99182	845.0546	837.1503
0.96325	1.0072	302.4401	301.4241	1.1847	0.14037	1.1847	279.4612	330.876

0.54368	0.89493	268.9937	244.752	-1.0753	0.71058	0.92997	266.3112	244.5519
0.00036	0.80217	4263.033	3402.194	-1.81255	6.67E-11	0.55171	2245.738	1238.797
0.49641	0.93592	649.4519	605.4763	1.08728	0.20574	1.08728	1049.571	1142.964
0.60891	0.94328	487.5458	463.6725	-1.31294	0.03629	0.76165	362.0279	274.8241
0.94383	1.00644	341.4002	343.5031	1.14961	0.39993	1.14961	297.8314	338.0873
8.35E-08	0.67538	1988.671	1339.406	-4.19138	1.01E-41	0.23859	1646.957	393.0334
0.14529	1.17951	379.9778	451.2815	1.38857	0.00935	1.38857	391.0683	539.7451
0.81821	0.98727	2396.913	2366.878	-1.22515	0.00003	0.81623	1837.139	1500.378
0.04865	1.13396	1379.848	1570.368	1.13051	0.03645	1.13051	1508.613	1703.594
0.82936	0.87247	67.73557	61.80477	-1.50885	0.17333	0.66276	142.7351	94.61812
0.7584	0.98276	811.0349	796.5331	-1.04371	0.60141	0.95812	763.6177	730.0654
0.71701	0.98183	1267.42	1245.567	-1.01189	0.87547	0.98825	1260.064	1240.272
0.6714	0.92286	282.0212	267.6473	1.0871	0.48093	1.0871	334.0512	362.1323
0.19158	1.05852	4067.553	4307.304	1.04807	0.47912	1.04807	4397.72	4606.635
0.04674	1.10187	1140.262	1256.704	1.06108	0.36255	1.06108	1521.024	1610.671
0.37329	0.84456	387.3448	320.965	1.17474	0.41694	1.17474	341.5566	407.7796
9.13E-10	0.73079	2257.25	1646.14	-1.0014	0.97799	0.99861	2183.344	2181.496
0.71782	0.96266	363.7601	351.3734	2.74068	3.74E-13	2.74068	266.1238	735.6735
0.00579	1.12716	6886.454	7763.152	-1.03	0.73435	0.97088	8217.731	7926.883
0.51003	1.06129	940.4297	1004.905	-1.08921	0.17521	0.9181	967.7581	887.6892
0.14401	0.58619	179.3943	104.2685	1.1381	0.69255	1.1381	128.9554	146.8328
0.69674	1.03367	479.7426	495.6083	1.07272	0.37889	1.07272	502.5206	539.5902
0.60927	1.03136	1346.487	1391.258	1.29258	4.06E-06	1.29258	1180.193	1524.592
0.21194	0.86291	2932.391	2523.499	1.34533	0.00289	1.34533	2632.942	3568.774
0.0068	0.76541	1509.172	1152.779	2.53969	1.13E-36	2.53969	1334.436	3390.579
1	1	18.28575	24.79058	1.24762	0.89836	1.24762	18.98365	33.7346
0.28892	0.95327	7529.657	7175.677	1.48153	3.62E-06	1.48153	6374.581	9468.744
0.63361	0.96049	5435.352	5236.946	-1.11224	0.04561	0.89909	5447.316	4896.19
5.29E-07	0.81099	4380.148	3552.284	1.23545	0.00016	1.23545	3725.309	4608.581
0.48851	0.91409	3367.653	3080.239	1.599	5.05E-06	1.599	2985.557	4776.318
0.00031	0.56082	2615.565	1425.358	-2.17185	6.09E-08	0.46044	1869.259	865.5781
0.28409	0.89057	628.1777	555.8301	1.87957	1.45E-11	1.87957	659.4565	1237.354
0.0002	0.7668	1689.567	1292.598	1.40865	1.88E-10	1.40865	1421.886	2003.897
0.05605	0.73814	4627.177	3376.055	4.08691	7.01E-25	4.08691	4034.25	16646.96
0.36739	1.07043	940.9542	1002.717	1.1177	0.05036	1.1177	1078.646	1205.86
0.00562	1.20022	3948.945	4781.688	1.00538	0.93029	1.00538	5681.869	5698.341
0.64456	0.89832	245.493	212.5768	-1.08743	0.54928	0.9196	316.0023	291.7896
0.00413	0.85787	2072.096	1779.329	-1.14977	0.0253	0.86974	1901.604	1655.189
0.61755	1.26198	68.74873	85.07462	1.17491	0.80713	1.17491	70.86096	87.11677
0.07202	0.89534	2291.435	2056.335	-1.15857	0.00304	0.86314	2905.315	2506.013
0.07667	0.83157	6807.5	5679.035	1.54487	0.00007	1.54487	6969.805	10747.03
0.95441	1.0076	215.8148	217.631	-1.00558	0.97866	0.99445	173.1332	172.1981
0.06347	1.12453	838.7147	941.2335	1.20253	0.00954	1.20253	935.5383	1127.45
0.00016	0.67425	2919.279	1945.618	-1.67807	4.95E-08	0.59592	2593.218	1535.288
0.37035	1.07259	477.6503	511.4752	1.04833	0.58547	1.04833	488.2791	511.2286
0.17757	1.05836	26100.24	27629.02	-1.79493	4.99E-09	0.55713	27324.47	15204.93
0.70861	1.09354	130.6794	142.2013	1.01009	0.96899	1.01009	133.4953	134.8165
0.83019	1.01824	618.1586	627.2122	-1.08292	0.31848	0.92343	627.6323	580.3809
0.0376	1.11824	762.7273	852.7496	1.08029	0.09312	1.08029	1354.129	1462.97
0.71396	0.95262	437.8965	421.5295	-1.80157	0.00061	0.55507	354.9211	195.3234

0.63491	0.95697	359.4869	343.8717	-1.15817	0.32026	0.86343	292.6984	253.6511
0.14294	0.73065	366.8193	259.5104	1.312	0.04645	1.312	265.3136	349.2988
0.56783	0.94746	479.0657	455.0172	-1.07354	0.487	0.93149	509.0963	472.5776
0.54429	0.90297	1248.302	1135.203	1.07023	0.23066	1.07023	979.7089	1048.433
0.33528	1.10793	522.0526	575.1948	1.12294	0.22618	1.12294	535.1495	603.0128
0.87533	0.9639	174.6997	165.6908	1.07367	0.84951	1.07367	120.2595	127.9641
0.89486	0.98441	1468.274	1470.928	-1.16622	0.06474	0.85747	1439.661	1234.183
0.04915	1.09515	2584.063	2828.503	-1.29241	0.00002	0.77375	2590.156	2004.281
0.17009	0.87152	1689	1480.566	1.19383	0.00063	1.19383	2265.08	2706.124
0.6011	1.09884	210.5694	229.4381	1.38821	0.00707	1.38821	306.4692	425.3221
0.4272	0.92194	308.1586	283.8619	1.56613	8.02E-06	1.56613	283.4044	443.5124
0.14051	1.0809	2108.065	2272.779	-1.17431	0.00013	0.85156	3970.672	3380.627
0.03367	0.59516	502.4977	286.6962	1.19168	0.17754	1.19168	321.564	384.0436
0.02971	0.65501	241.7325	156.7086	1.26359	0.35745	1.26359	158.6751	201.787
0.64369	1.04563	1380.277	1441.011	1.04457	0.52684	1.04457	1323.76	1385.694
0.37369	0.9023	700.2123	627.397	1.13543	0.07343	1.13543	781.9077	889.4367
0.01065	0.71376	434.7945	307.2543	-1.12174	0.51539	0.89147	452.4153	406.8049
0.01811	0.73501	948.9778	690.8352	2.672	1.41E-41	2.672	806.2929	2159.763
0.03974	0.73095	1694.543	1226.181	1.23561	0.06254	1.23561	1304.135	1624.158
0.06274	1.1357	815.0645	923.1267	1.3369	8.37E-08	1.3369	870.7003	1164.247
0.48939	0.87819	224.2325	194.7206	1.08929	0.61893	1.08929	193.8834	210.7852
0.00238	0.86975	1480.292	1287.689	1.08816	0.08328	1.08816	1404.358	1528.633
0.35511	0.92677	706.7922	657.0646	-1.54045	0.00002	0.64916	615.8789	400.9419
0.14875	1.38825	207.7595	279.6508	2.68158	2.27E-16	2.68158	188.6483	506.5886
0.40552	1.1027	242.589	267.5523	1.1151	0.60274	1.1151	269.454	297.4032
0.92298	1.00728	2470.199	2501.99	-1.06203	0.19966	0.94159	2273.415	2140.924
0.57791	0.93969	405.6914	383.3536	-1.27621	0.09693	0.78357	352.0685	275.5364
0.63226	1.02847	1635.448	1685.736	-1.0148	0.80667	0.98542	1832.784	1801.133
0.26245	1.07859	8336.822	9031.504	-1.13615	0.05689	0.88016	9075.895	7994.832
0.35673	1.04942	1288.425	1352.053	-1.25915	0.01157	0.79419	1158.818	917.5441
0.08127	0.73534	1227.639	898.6523	1.13923	0.27396	1.13923	1038.272	1189.689
0.82622	1.03555	406.1555	414.6762	1.03211	0.77027	1.03211	455.8882	472.3848
0.32475	1.17667	275.7273	328.1161	1.11841	0.09537	1.11841	562.0131	628.4153
0.04394	1.09603	3672.63	4030.487	1.41266	9.33E-11	1.41266	4217.254	5957.572
0.87646	1.00995	3410.991	3447.362	1.15465	0.14152	1.15465	3059.082	3531.247
0.18742	1.147	446.9587	514.91	1.59899	0.00009	1.59899	492.8435	783.5868
0.00003	0.83668	3067.788	2567.014	1.02909	0.57055	1.02909	3696.271	3800.666
0.17708	1.24014	296.444	362.061	1.45811	0.00695	1.45811	324.4601	477.2289
0.96715	1.00347	399.1032	400.3473	-1.06371	0.63716	0.94011	360.5184	340.6105
0.33034	1.08612	1789.38	1951.741	-1.15052	0.03869	0.86917	2105.408	1830.325
0.51577	1.14101	140.1956	159.4478	1.05522	0.88731	1.05522	112.6436	118.206
0.6541	1.0546	364.1655	386.5558	1.08457	0.60981	1.08457	345.3905	371.3638
0.52078	1.03954	1342.834	1391.794	-1.03095	0.61669	0.96998	1350.253	1312.27
0.12499	0.88995	2618.685	2316.525	1.39974	0.00117	1.39974	2267.6	3138.003
0.14899	0.78379	486.2628	372.6163	1.08595	0.65734	1.08595	395.9849	432.9821
0.35002	0.93066	2598.701	2392.459	1.07227	0.12667	1.07227	2756.319	2955.324
1.19E-08	0.63171	1494.904	941.5313	1.64371	7.67E-15	1.64371	866.4082	1422.455
0.93487	1.00703	2375.753	2384.341	-1.20172	0.01414	0.83214	2492.526	2071.294
0.08244	0.67408	349.5679	227.9188	2.0039	0.00023	2.0039	241.5138	482.4911
0.90395	0.90727	54.49348	48.51079	-1.1426	0.71825	0.8752	127.8831	111.4996
0.84649	1.01423	2674.919	2737.585	-1.0345	0.66751	0.96665	2647.905	2561.025
0.00549	0.86715	967.1428	838.6344	1.6554	8.23E-13	1.6554	845.9463	1400.062

0.81208	1.17898	52.23231	63.96504	1.25496	0.71323	1.25496	69.05848	86.53339
0.15468	0.74431	199.3549	147.1457	1.61929	0.05838	1.61929	135.3936	218.217
0.10025	0.88647	538.6419	477.7965	-1.22675	0.083	0.81516	449.1227	367.8505
0.49963	0.90871	764.0169	700.5849	1.83473	2.19E-08	1.83473	665.0817	1218.869
0.95553	1.0035	12796.71	12843.94	1.1313	0.03554	1.1313	12780.79	14467.62
0.53338	1.08123	23730.5	26161.42	-1.02647	0.74852	0.97421	25071.3	24435.62
0.56491	0.94474	450.7418	427.3228	2.8084	1.55E-25	2.8084	368.8316	1033.384
0.98715	0.99564	133.9908	131.8976	1.07961	0.73273	1.07961	192.9535	206.7559
3.66E-11	0.62861	4586.922	2881.281	1.24968	0.01994	1.24968	3798.485	4762.863
0.63117	0.97513	1621.56	1582.259	1.50978	4.21E-13	1.50978	1547.776	2337.978
0.92789	1.1466	18.27534	22.29001	1	1	1	18.33537	31.51907
0.64485	1.10977	161.0818	176.9424	-1.12641	0.65522	0.88778	151.0287	133.1762
0.13331	1.12144	2560.727	2898.107	-1.0192	0.80363	0.98117	5558.303	5452.33
0.00163	0.59792	1349.549	792.2513	-1.12698	0.17553	0.88733	910.7965	811.0438
0.00359	1.23443	2342.225	2897.205	-1.07395	0.23721	0.93114	2462.055	2294.641
0.08074	1.16005	660.2977	762.8828	1.02442	0.72168	1.02442	821.2116	841.9528
0.00206	0.83258	9593.619	8006.64	-1.09124	0.20039	0.91639	8142.435	7431.653
0.74852	1.05927	377.8492	397.1704	-1.03902	0.74443	0.96245	427.7869	413.5294
0.4407	0.92788	6065.714	5656.031	1.06264	0.34454	1.06264	5502.963	5849.2
0.01122	0.69423	517.1925	354.0963	1.0415	0.78186	1.0415	355.7405	374.058
7.02E-21	0.66806	7928.678	5296.902	1.1936	0.00011	1.1936	6460.914	7715.609
0.43739	1.06212	633.9708	671.4182	-1.01379	0.82281	0.9864	712.9584	703.3286
0.16852	0.78325	1362.535	1060.908	1.29782	0.00756	1.29782	1276.463	1655.787
0.52231	0.9567	2667.425	2546.785	1.26433	0.00087	1.26433	2514.222	3189.972
0.34566	0.85395	683.8183	573.0504	1.0168	0.84199	1.0168	716.9018	730.9154
0.35403	1.15486	351.5566	399.4958	1.17861	0.17817	1.17861	292.8895	345.7253
0.96106	1.06124	28.22762	30.04747	1.15569	0.90826	1.15569	31.77072	36.90784
0.01384	1.13909	5126.084	5844.057	-1.08159	0.17075	0.92457	6097.574	5629.852
0.68237	1.0181	3912.272	3980.053	1.11579	0.04124	1.11579	3578.423	3994.158
0.86096	1.04801	122.36	128.1633	-1.27179	0.17038	0.7863	261.321	205.4247
0.65507	1.18599	95.48951	110.182	-1.28341	0.69654	0.77917	75.55723	58.5421
0.48047	1.08266	370.8251	399.3583	1.23072	0.1297	1.23072	493.3351	600.6401
0.90457	0.95795	114.6601	110.3541	-1.08401	0.78878	0.9225	125.2549	115.3402
0.58275	1.02856	1110.432	1142.834	1.22925	0.0088	1.22925	1073.131	1316.874
0.0068	0.77097	1960.091	1505.661	-1.16933	0.00581	0.85519	1779.574	1523.538
0.13199	0.91652	877.2672	804.2325	1.00236	0.97565	1.00236	737.7501	738.2306
5.38E-10	0.55931	588.3772	328.035	-1.02941	0.77867	0.97143	401.035	388.8107
6.60E-08	0.60349	800.1269	484.4262	-1.3507	0.13289	0.74036	638.1938	462.7989
0.96388	0.99482	424.5462	420.8735	-1.12508	0.32172	0.88883	620.3511	549.0812
0.70453	1.02972	765.2061	789.5332	1.42462	0.01099	1.42462	730.3606	1036.965
0.00001	0.67097	10914.44	7338.144	-1.22732	0.0018	0.81479	10890.87	8852.956
0.33147	1.13682	274.4941	310.2958	1.51184	0.0363	1.51184	236.8276	353.4559
0.79827	1.126	63.16359	70.82264	1.19378	0.74283	1.19378	62.91798	75.0688
0.75835	0.98574	2345.368	2313.363	-1.1308	0.0428	0.88433	2290.219	2020.031
0.42328	0.88013	1038.96	924.7316	-1.40332	1.36E-06	0.71259	829.0512	590.1648
0.45033	1.13444	422.0894	468.6169	1.52478	0.00018	1.52478	348.4191	533.4927
0.00003	0.438	401.6309	172.0495	-2.74079	4.80E-07	0.36486	385.6694	142.5696
0.0146	0.68939	1292.516	877.4716	1.01725	0.9015	1.01725	1047.532	1071.313
0.8122	0.93104	160.8068	148.6793	-1.28507	0.7095	0.77817	80.37795	66.71072
0.15451	0.89452	2213.267	1974.518	1.73741	8.86E-09	1.73741	1946.348	3402.439
0.88171	1.04516	123.7444	131.3037	1.17813	0.43056	1.17813	152.3308	179.0159
0.22429	1.13599	475.7119	537.2807	-1.34751	0.00061	0.74211	584.8135	434.0349

5.14E-06	1.30613	1242.854	1623.511	1.65286	3.17E-09	1.65286	1197.436	1982.434
0.03428	0.83027	924.8638	765.2823	1.09732	0.13254	1.09732	778.4326	853.6628
0.81788	1.01207	6358.291	6449.146	1.02021	0.78077	1.02021	6472.226	6607.323
0.66447	0.93206	228.5295	213.6043	-1.03447	0.84646	0.96668	188.9479	182.8457
0.34327	0.87392	566.5366	502.2358	-1.15668	0.12467	0.86454	736.7233	639.1424
0.56407	0.83914	181.9578	160.543	-2.03607	0.08319	0.49114	143.2022	69.08368
0.00678	0.80752	1482.346	1195.128	1.2259	0.00003	1.2259	1140.761	1398.146
0.01371	0.62182	4586.805	2784.378	-2.74165	5.90E-06	0.36474	4096.005	1407.244
0.24307	0.93862	2879.41	2700.088	1.12026	0.02303	1.12026	2712.511	3033.556
0.19644	1.10886	7463.753	8294.236	-1.49056	0.0001	0.67089	8292.079	5593.28
0.16679	1.08668	1865.786	2036.363	1.07459	0.30037	1.07459	2065.593	2217.727
0.00258	1.18783	2333.937	2770.716	1.2187	0.00063	1.2187	2156.539	2627.57
0.19903	1.06656	953.4631	1016.735	1.03383	0.57476	1.03383	1059.936	1095.289
0.20751	1.06757	1135.328	1213.238	-1.2168	0.03234	0.82183	1139.966	934.8974
0.84331	1.01542	863.4356	879.9243	-1.23697	0.0019	0.80843	911.9471	736.1984
0.67744	0.9376	289.4192	268.3906	-1.04222	0.80634	0.95949	229.3379	220.8657
0.98006	1.00162	2104.842	2105.494	1.10176	0.08206	1.10176	1905.217	2100.437
0.5844	1.0902	229.8069	251.3684	1.21067	0.24829	1.21067	176.5143	213.5814
0.00082	0.54638	12062.99	6474.974	-1.27009	0.03151	0.78735	9488.854	7461.027
0.60927	0.95976	864.8728	828.6713	1.34877	0.00288	1.34877	808.3471	1087.458
0.37011	1.04723	977.049	1023.585	-1.24282	0.0051	0.80462	1160.112	930.2482
0.93373	1.01825	190.5049	190.8875	1.80217	0.00044	1.80217	161.6178	291.2592
0.6279	1.05646	648.2011	690.0812	1.13457	0.38464	1.13457	620.4578	698.0567
0.00132	1.33026	1218.532	1627.526	1.29887	2.41E-07	1.29887	1084.628	1408.927
0.93847	1.0088	5716.749	5859.819	1.3677	3.54E-08	1.3677	5326.713	7284.703
0.94592	1.004	2582.018	2598.98	-1.14851	0.03973	0.87069	2518.213	2187.855
0.86589	0.98702	1473.934	1442.061	-1.08551	0.2171	0.92122	2514.291	2310.605
0.01027	1.16638	10680.74	12436.2	1.80533	0.00009	1.80533	10255.86	18958.93
0.7545	1.05156	284.5271	295.7109	1.08681	0.18517	1.08681	609.6798	662.6354
0.47259	1.07129	378.2938	406.3897	1.00277	0.97646	1.00277	401.2283	402.495
0.14744	0.83652	918.8832	758.7264	1.26737	0.00749	1.26737	725.5286	923.2921
0.01858	0.67198	596.5559	392.1069	-1.13517	0.26602	0.88093	519.5924	460.1045
0.00025	0.75091	1179.365	887.7827	-1.01619	0.89962	0.98407	997.8782	973.7657
0.90695	0.98776	404.7677	401.2231	-1.22057	0.02038	0.81929	589.3932	481.9813
0.81746	1.02835	342.3646	350.153	1.12626	0.40203	1.12626	322.5324	364.3189
0.74056	1.13399	81.19312	93.242	1.41231	0.51146	1.41231	61.70946	86.43911
0.13384	0.7617	330.7723	247.0669	-1.30039	0.18136	0.769	267.8965	207.6073
0.00799	0.85636	3678.575	3153.879	1.07576	0.0766	1.07576	3336.73	3589.584
0.76498	1.046	426.2477	438.7954	2.10621	1.29E-08	2.10621	295.836	628.1726
2.24E-09	0.43305	2959.901	1261.127	-1.94057	3.36E-09	0.51531	2164.68	1112.372
0.56772	1.03882	2956.125	3061.74	-1.09499	0.02812	0.91325	3300.887	3014.573
0.21169	1.12565	651.594	735.8875	1.12659	0.05888	1.12659	1023.828	1152.166
0.53911	1.10488	281.2372	310.8025	1.13732	0.28941	1.13732	296.206	337.2307
0.67124	0.96081	7320.655	7045.358	1.65204	4.78E-08	1.65204	7067.538	11797.25
0.07076	0.90179	7072.978	6378.369	-1.48028	1.18E-10	0.67555	6661.546	4500.2
0.73925	0.9634	1230.207	1190.305	-1.1811	0.01151	0.84667	1107.453	937.9697
0.00048	0.76208	635.65	483.9747	1.59041	0.00165	1.59041	454.7891	719.9338
0.58915	0.96038	3497.155	3360.177	1.57367	9.00E-22	1.57367	2867.181	4511.743
0.99327	0.9968	92.94949	94.14802	-1.67187	0.39524	0.59813	69.46445	41.4492
4.19E-09	0.74572	2744.262	2047.24	1.07586	0.20258	1.07586	2376.744	2556.552
0.3857	0.94427	2519.31	2386.115	1.01635	0.78572	1.01635	2541.51	2583.282
0.86012	1.01622	598.1168	610.532	1.22415	0.11935	1.22415	619.3711	753.204

0.52477	1.03237	1153.57	1190.831	-1.05402	0.44142	0.94875	944.1608	894.098
0.05363	0.85559	1226.706	1046.478	1.07746	0.30103	1.07746	1015.26	1096.424
0.66432	0.93698	213.1389	199.7847	1.02176	0.91072	1.02176	203.4651	206.8921
0.12869	1.11509	3572.905	3995.549	-1.04458	0.49764	0.95733	2975.309	2858.703
0.12561	0.89166	1372.535	1222.62	1.03561	0.71913	1.03561	1195.862	1238.688
0.27231	1.06524	722.9011	769.6093	-1.05826	0.36669	0.94494	806.2017	761.2827
0.38285	1.08752	956.3827	1038.658	-1.09712	0.13792	0.91148	861.0472	785.2558
0.87793	0.95432	101.4145	96.38144	1.15254	0.75364	1.15254	88.56935	101.152
0.04373	0.78866	600.2076	477.5556	1.14093	0.22887	1.14093	607.4979	689.5405
0.2997	0.77105	1150.924	872.3965	-6.046	3.06E-31	0.1654	818.0169	134.5192
0.25277	0.82673	719.375	602.2241	-1.42547	0.00718	0.70152	775.0031	538.4088
0.52216	1.04698	911.9587	958.0958	1.01983	0.75957	1.01983	904.2098	921.6408
0.24643	0.8222	1903.553	1552.939	-1.30685	0.04631	0.7652	1075.863	832.2275
0.00072	0.69982	8233.175	5766.176	1.16323	0.04109	1.16323	7032.269	8194.947
0.13014	0.86228	791.5325	678.8007	-1.15994	0.0574	0.86211	681.9791	587.0186
0.86	0.98776	894.8501	880.8923	-1.10248	0.11963	0.90704	877.9485	795.646
0.83066	1.01603	591.923	600.8409	1.06418	0.41443	1.06418	1016.535	1084.953
0.9217	0.98392	751.37	749.7479	-1.46125	0.00187	0.68435	569.7282	391.6426
0.69097	1.13604	93.66954	106.8053	1.37729	0.30465	1.37729	86.29044	118.6291
0.98925	0.99675	123.8865	123.4373	1.00562	0.98916	1.00562	116.1838	113.5907
0.68343	0.95676	356.5886	342.1839	-1.09773	0.60695	0.91097	296.7256	266.8261
0.09598	0.86789	556.068	481.1021	-1.06968	0.39443	0.93486	522.5004	488.6397
0.118	0.92663	148219.4	137405.2	-1.1022	0.02545	0.90727	161415.3	146465.2
0.14423	1.21291	210.2769	255.4796	1.23834	0.30031	1.23834	233.2026	283.4865
0.07043	1.12037	1633.8	1835.76	1.08573	0.31583	1.08573	1944.681	2095.052
0.10896	0.92514	2290.938	2120.525	-1.00684	0.89141	0.99321	1909.563	1895.087
0.20075	0.62699	135.1201	82.65594	1.31821	0.3074	1.31821	112.1872	148.4988
0.49401	0.7889	106.4971	83.75688	-2.02098	0.2569	0.49481	86.45183	43.71113
0.89459	1.00968	779.9539	785.0675	1.01643	0.77173	1.01643	888.6571	902.856
0.77621	1.0166	804.8588	817.7819	-1.1155	0.19047	0.89646	719.9345	643.8262
0.91452	0.98726	1114.733	1107.207	-1.21542	0.00372	0.82276	1047.649	861.4393
0.84183	1.02562	7818.53	7751.438	-1.87855	1.60E-16	0.53233	10096.2	5332.245
0.8892	1.02193	245.2543	252.6286	-1.07322	0.69891	0.93177	214.8472	200.9471
0.48777	0.85993	279.6735	244.6422	-1.24733	0.29981	0.80171	214.7148	172.0409
0.06583	0.82844	2054.689	1705.45	1.16765	0.05928	1.16765	2156.318	2509.195
0.85313	0.98993	1667.115	1653.849	1.02142	0.65002	1.02142	2170.5	2218.546
0.10868	1.09774	6282.737	6916.608	-1.0617	0.43413	0.94188	6819.089	6410.815
0.1452	1.10488	7272.089	8067.368	-1.3427	9.16E-06	0.74477	7128.602	5307.961
0.84737	0.9895	1059.363	1049.163	-1.14369	0.0198	0.87437	1108.011	967.9028
0.86659	0.98416	3352.856	3299.507	-1.10968	0.29274	0.90116	3233.697	2908.77
0.77652	0.97463	644.5353	625.2502	1.06351	0.48519	1.06351	624.4244	662.4764
0.19163	1.07028	13421.37	14373.03	1.32944	4.36E-06	1.32944	14229.11	18925.74
0.60647	0.93685	880.1434	817.949	1.89281	1.80E-20	1.89281	716.8618	1358.841
0.44875	1.075	489.1632	528.3245	-1.19088	0.14083	0.83972	493.3239	411.7199
0.8167	0.9884	987.6663	976.3912	1.15653	0.08545	1.15653	940.2985	1083.547
0.14231	1.12526	625.9713	702.4961	1.07732	0.50592	1.07732	596.9613	639.7614
0.48272	0.96193	1630.311	1568.364	1.58627	3.63E-12	1.58627	1418.752	2250.681
0.00687	0.62543	263.9471	164.3583	-1.05893	0.77802	0.94435	203.6614	191.6372
0.11718	1.21382	2256.914	2708.547	-2.25313	4.05E-07	0.44383	3544.438	1513.908
0.00336	0.70056	7596.346	5353.76	-1.39769	0.00008	0.71547	8021.899	5686.025
0.92857	0.9729	117.3842	115.2758	-1.0947	0.82705	0.91349	111.3652	101.4443
0.54063	1.03406	960.7538	992.4764	1.01146	0.82886	1.01146	1090.416	1103.295

0.92861	1.01142	364.6077	367.5723	-1.0251	0.83534	0.97551	383.7931	372.859
0.28135	1.07948	2157.436	2330.307	-1.22912	0.00461	0.81359	2428.443	1960.63
0.4383	1.07546	1354.858	1477.156	-1.10629	0.0499	0.90392	3351.108	3022.936
4.81E-07	0.65791	2412.917	1594.439	-1.0656	0.28321	0.93844	3027.813	2834.616
0.39269	0.95265	1775.946	1693.37	-1.05297	0.39999	0.9497	1561.561	1485.712
0.21186	1.074	895.2843	962.7301	-1.06763	0.3441	0.93665	957.6732	896.7523
0.61088	0.93106	592.8961	544.2621	-1.04428	0.59694	0.9576	589.3915	563.6388
0.90615	0.99332	770.7273	765.1686	-1.00461	0.94062	0.99541	788.3933	784.6992
0.19816	0.86247	7515.277	6468.248	1.75752	1.26E-15	1.75752	6790.308	11947.76
0.36172	0.92243	353.9815	326.5868	1.153	0.29958	1.153	354.563	411.8575
0.88322	0.98829	1275.125	1265.676	-2.0191	3.71E-13	0.49527	1300.627	644.7603
0.00003	0.70021	1296.718	903.7572	1.19457	0.06839	1.19457	892.7395	1071.64
0.73685	0.87826	88.66235	78.78314	1.30114	0.54532	1.30114	82.64624	105.6864
0.21602	1.09087	1585.484	1720.414	1.08576	0.09101	1.08576	1728.797	1878.162
0.34466	1.09633	3140.15	3455.096	-1.73518	1.62E-15	0.57631	3978.196	2279.243
0.62064	1.02379	7346.4	7514.757	-1.20279	0.00044	0.8314	6800.468	5668.389
0.1053	0.80473	866.1499	701.9688	-1.04638	0.63453	0.95568	751.9448	716.1928
0.0937	1.23404	723.4247	888.9293	1.83493	5.88E-08	1.83493	641.5772	1187.802
0.7033	1.09746	130.6444	143.366	1.02328	0.93448	1.02328	167.9353	168.9708
0.00126	0.60433	6073.287	3625.674	1.20783	0.18481	1.20783	4361.83	5337.02
1.08E-17	0.59499	2339.648	1394.228	-1.22034	0.00464	0.81945	1803.066	1473.238
0.73378	0.75846	39.39049	29.70345	-1.06625	0.95122	0.93787	27.34747	32.07169
0.5531	1.05711	668.5974	705.0111	1.13162	0.05698	1.13162	929.8815	1053.511
0.54878	1.03826	3172.584	3281.25	-1.02152	0.70809	0.97894	3383.167	3320.71
0.80689	0.9417	128.6757	121.1471	-1.12364	0.7623	0.88997	117.7664	105.168
0.33869	1.06731	3264.809	3463.326	-1.19754	0.00162	0.83504	3813.255	3175.825
0.05672	1.1095	2593.495	2876.521	-1.04501	0.50294	0.95693	2530.542	2418.266
0.69339	0.94421	610.2778	568.1907	-1.46385	0.0012	0.68313	708.4564	486.5447
0.97752	1.00443	414.4761	411.6605	1.14536	0.22111	1.14536	454.2664	521.5823
1	1	18.37214	23.33845	1	1	1	16.85968	30.76598
0.00826	0.74818	480.0441	357.017	-1.30159	0.04377	0.76829	384.4086	296.663
0.03185	0.58907	323.2018	186.4283	1.13145	0.53686	1.13145	250.674	287.4614
2.43E-06	0.70956	817.8977	581.173	-1.50804	4.50E-06	0.66311	668.6705	442.3427
0.53115	1.05461	858.3886	900.7592	1.31705	4.90E-06	1.31705	863.3479	1138.374
0.14363	0.84242	747.5281	634.9567	-1.04686	0.74906	0.95524	630.4041	597.0231
0.43559	0.94328	4913.486	4640.563	-1.04193	0.57811	0.95975	4915.75	4714.374
1	1	17.55385	22.57644	1	1	1	17.35745	31.94444
0.70851	0.93148	395.9915	378.2507	-1.35483	0.03827	0.7381	377.6737	276.6812
0.17683	0.85213	1823.749	1550.319	1.69001	0.00057	1.69001	1643.014	2837.348
0.20341	0.85206	5338.228	4552.093	1.44528	0.00089	1.44528	4528.697	6581.42
0.96063	1.00691	603.8943	615.8695	-1.45211	7.97E-09	0.68865	799.5098	550.368
0.16262	1.10818	1436.637	1582.855	-1.15279	0.02685	0.86746	1485.147	1285.003
0.9684	0.99739	1125.032	1125.003	-1.23732	0.00028	0.8082	1089.179	881.0051
0.8234	1.06761	120.5641	130.478	-1.52482	0.26571	0.65582	110.4708	72.76142
3.33E-16	0.58936	2423.338	1426.594	-1.07819	0.42773	0.92748	1720.778	1590.844
0.14359	1.56407	232.4501	341.3486	1.25253	0.32118	1.25253	189.3744	239.7271
0.58376	1.10869	261.6287	283.7043	1.02473	0.89531	1.02473	265.4233	275.8796
0.41101	0.93095	2243.584	2092.546	1.32511	1.37E-07	1.32511	2146.651	2845.98
0.10234	0.8361	7089.067	5995.752	-1.3222	0.00292	0.75631	4865.631	3681.217
1	1	17.50314	23.99265	1	1	1	17.04741	32.80228
0.58947	1.03887	901.7074	934.238	1.05274	0.44082	1.05274	897.5064	946.4271
0.5472	1.12571	217.5746	242.1388	1.00778	0.95245	1.00778	417.5376	423.5048

0.40421	1.05087	601.4933	632.1664	-1.05959	0.51575	0.94376	505.7253	476.455
0.08031	1.09101	2447.931	2667.551	-1.16365	0.00229	0.85936	2766.98	2377.366
0.1571	1.14613	523.7796	597.7604	1.15031	0.07325	1.15031	551.1729	634.5399
0.51867	0.93305	3252.417	3074.163	1.16409	0.07217	1.16409	4138.807	4826.34
0.07237	1.13237	2698.211	3070.534	-1.05815	0.45138	0.94505	2937.74	2762.886
0.41015	0.84013	262.9711	225.3583	-1.23457	0.31209	0.81	201.4579	163.9674
0.9419	0.99341	2188.944	2172.727	1.23227	0.00007	1.23227	1946.22	2400.525
0.60999	1.03338	1478.963	1535.441	-1.05486	0.3641	0.948	1530.287	1450.903
0.01865	1.1239	6266.743	7032.699	1.19251	0.00012	1.19251	6190.239	7384.974
0.00062	0.78897	4015.557	3161.955	1.27406	0.00465	1.27406	3403.074	4328.985
0.45893	1.04819	956.5983	1000.081	1.04407	0.44519	1.04407	923.9374	964.2512
0.79122	0.96932	340.1555	331.3024	-1.13715	0.41982	0.87939	254.2452	224.3511
0.03373	1.19424	3821.364	4594.769	-1.52868	3.13E-07	0.65416	5598.117	3628.997
0.02236	1.18461	667.4804	790.0465	-1.31325	0.00003	0.76147	969.6492	737.35
0.44195	1.04557	1437.433	1499.654	1.28231	1.23E-07	1.28231	1525.344	1955.953
0.00105	1.39445	13631.13	18908.09	-2.85125	2.88E-12	0.35072	23524.88	7930.292
0.63501	0.94369	289.9356	273.5643	-1.02518	0.8412	0.97544	304.2447	297.0724
0.00608	1.13442	9489.92	10774.12	-1.4145	2.06E-06	0.70696	10103.87	7088.359
0.24018	1.09281	1410.02	1550.015	-1.11009	0.15144	0.90083	2561.683	2324.833
0.53167	1.20468	115.5219	138.8815	-1.11851	0.85457	0.89405	101.603	82.57672
0.2806	1.0694	1577.173	1680.631	-1.17617	0.0066	0.85021	1547.11	1318.217
0.23502	1.15069	424.4059	484.0204	1.09353	0.39022	1.09353	479.1165	521.7567
0.00038	1.31385	1520.87	2000.442	-1.0026	0.97168	0.99741	2163.574	2153.697
0.17624	0.84184	751.4951	625.4019	-1.02476	0.73869	0.97584	630.6052	616.0601
0.0738	0.56587	271.7942	148.0345	1.29365	0.20651	1.29365	154.4591	200.3259
0.96454	1.05481	30.22319	31.34715	1.10813	0.91621	1.10813	30.06056	40.44392
0.4321	0.82458	210.726	171.4964	1.04918	0.8307	1.04918	163.6482	171.7304
0.27661	1.13501	617.7039	707.5144	1.19134	0.10344	1.19134	542.0393	642.6855
0.01819	0.66431	464.1475	302.334	1.33967	0.00336	1.33967	351.0557	471.0659
0.54479	1.03299	1760.019	1825.07	-1.0773	0.11889	0.92825	2076.803	1926.546
0.0138	0.83445	1202.084	1001.742	1.43973	8.36E-09	1.43973	1014.573	1459.366
0.2317	0.8126	406.4053	321.7955	-1.06	0.70685	0.9434	418.6094	388.7814
0.62057	0.95986	2168.206	2081.645	-1.02158	0.67953	0.97888	1969.871	1927.534
0.17766	1.10781	546.5981	604.6682	-1.08578	0.44075	0.92099	538.078	495.8011
1.15E-09	2.18636	13812.59	31022.66	2.27578	5.41E-14	2.27578	13816.16	31902.55
0.48286	1.06474	476.5457	508.0598	2.15549	2.13E-15	2.15549	558.1423	1200.84
0.70317	0.96671	365.3947	353.2416	-1.0886	0.39507	0.91861	417.6855	383.1619
0.00318	0.73616	1043.32	764.0968	1.23308	0.00583	1.23308	1083.76	1338.505
0.58126	0.94184	2512.141	2382.549	1.54733	3.07E-09	1.54733	2799.402	4327.278
0.20018	1.08804	762.322	831.0295	-1.03852	0.56944	0.96291	816.0405	784.8013
0.08049	0.82954	3661.463	3075.207	1.07053	0.56073	1.07053	3586.499	3850.822
0.25492	1.07883	1977.235	2111.355	1.03619	0.45529	1.03619	2777.899	2880.44
0.87084	1.01069	10831.13	11022.93	1.06736	0.35998	1.06736	10244.62	10875.93
0.95137	1.08391	21.1739	26.4593	1	1	1	20.66045	32.49823
0.39873	0.92546	7415.863	6874.914	1.29007	0.00194	1.29007	7022.979	9081.249
0.04199	1.21976	7649.539	9198.486	-2.08738	4.85E-19	0.47907	13670.6	6452.896
0.13637	1.08989	1752.245	1914.14	1.07094	0.25983	1.07094	1942.231	2078.432
0	4.04351	35874.62	144478.3	3.59993	2.68E-21	3.59993	50767.39	186461.9
0.3994	0.96177	1611.93	1549.589	-1.06944	0.25776	0.93506	1425.123	1329.39
0.28742	1.06285	757.2031	804.385	1.00494	0.94149	1.00494	846.448	851.8458
0.1185	1.08423	8011.472	8669.264	-1.08705	0.05754	0.91992	8758.121	8050.039
0.68966	1.2112	55.03256	66.22035	1.17983	0.81026	1.17983	46.77851	55.45373

2.29E-07	1.31681	2228.075	2926.258	-1.02305	0.83539	0.97747	2441.233	2401.352
0.77148	1.02143	1699.547	1748.04	1.40263	3.56E-12	1.40263	2040.468	2861.335
0.23612	1.09213	977.8627	1063.85	-1.01842	0.73129	0.98191	1095.011	1075.105
0.27664	1.04861	1819.428	1907.863	1.03599	0.55282	1.03599	1852.843	1918.35
0.87503	0.98512	496.4337	487.0109	1.21969	0.08329	1.21969	413.5517	501.9507
0.87898	1.02269	235.0747	239.3066	-1.09913	0.63519	0.90981	196.0582	178.3199
0.34971	1.07247	3502.124	3733.751	-1.11628	0.0154	0.89583	3320.906	2974.515
0.94628	1.0049	7257.129	7299.932	1.73319	1.07E-26	1.73319	5635.009	9766.221
0.94797	0.99504	896.6545	888.5917	-1.04987	0.46072	0.9525	949.2289	905.1606
0.69534	0.93122	317.9657	301.9598	-1.52497	0.02459	0.65575	325.8836	211.4244
0.67437	0.86237	109.1761	94.19196	-1.3129	0.43875	0.76167	124.3545	94.89748
0.7968	1.02214	1652.025	1695.963	-1.13067	0.04879	0.88443	1442.214	1276.109
0.65473	1.06335	385.6927	405.9559	1.15139	0.16981	1.15139	327.4946	377.4446
0.72876	0.98006	1949.508	1903.677	-1.16925	0.00572	0.85525	1923.672	1641.215
0.66216	0.96823	4531.209	4383.38	1.28854	1.46E-09	1.28854	4068.637	5242.576
0.0594	0.84309	4655.607	3894.655	1.15032	0.11938	1.15032	4108.164	4761.889
0.92093	1.14302	19.16277	23.51962	1	1	1	22.78435	33.24667
0.14765	1.07964	1029.396	1110.356	1.02092	0.68109	1.02092	1062.3	1084.53
0.78874	0.96582	334.3384	320.5815	-1.01428	0.91299	0.98593	341.4348	338.1845
0.02065	1.38422	225.3577	311.3777	1.26656	0.18075	1.26656	211.3065	266.3842
0.56665	0.89908	278.8737	246.6976	1.07403	0.77777	1.07403	220.2114	242.2872
0.7127	0.91925	193.0457	180.5372	-1.04412	0.82823	0.95775	266.916	251.391
4.98E-11	0.74338	73680.53	54751.3	-1.01866	0.77134	0.98168	61616.52	60057.53
0.42129	0.89025	654.878	574.8976	1.62528	4.91E-08	1.62528	560.5842	914.4243
0.12432	0.81379	11769.14	9631.114	1.52556	7.56E-09	1.52556	12175.39	18565.41
0.38695	1.10514	237.1182	262.0444	-1.06125	0.73626	0.94228	240.1693	226.51
0.07732	0.73386	789.8908	567.1146	1.11825	0.30841	1.11825	610.7772	686.8001
0.58158	0.93044	408.4359	384.3251	-1.30091	0.06747	0.76869	304.4012	234.59
0.12823	0.74387	562.8961	405.0552	1.62304	0.00003	1.62304	537.7995	879.0394
0.0672	0.89738	8149.433	7319.35	1.45462	9.08E-19	1.45462	7568.533	11008.77
1	1	18.23718	23.97993	1	1	1	16.98487	29.21286
0.12623	1.13954	1547.434	1747.766	1.01901	0.68609	1.01901	2605.333	2652.664
0.55355	1.03151	1731.706	1789.361	-1.05951	0.38063	0.94383	1935.398	1824.656
0.19808	1.10538	754.9951	832.5757	1.2757	0.01491	1.2757	737.2163	937.6445
0.63226	1.02152	12797.87	13073.95	-1.09566	0.15932	0.91269	12032.49	11007.63
0.49979	1.0702	1226.825	1318.161	-1.20923	0.04215	0.82697	1490.63	1224.022
0.12434	1.13392	1392.582	1574.354	-1.14313	0.00379	0.87479	2652.531	2319.761
0.83448	1.02251	736.3673	746.8185	-1.04629	0.68201	0.95576	756.5067	726.7442
0.72468	1.02509	5017.462	5178.798	-1.28834	0.00013	0.77619	5017.27	3903.668
0.82125	0.98583	1583.805	1566.935	-1.0866	0.23895	0.9203	1662.371	1524.575
0.8673	1.01303	558.4463	566.9012	1.13149	0.16885	1.13149	577.069	654.7806
0.21732	1.06183	1193.451	1267.672	1.02364	0.69455	1.02364	1085.973	1110.249
0.49827	0.95962	1481.845	1422.471	1.27527	0.00004	1.27527	1285.668	1639.544
0.70765	1.13911	100.0847	111.9717	-1.29417	0.50681	0.7727	98.2692	75.82113
0.00999	0.75604	1511.478	1133.766	-1.04565	0.56276	0.95635	1285.033	1232.131
0.98719	0.99549	150.4047	153.5888	1.07862	0.78676	1.07862	192.3625	200.5763
0.49092	1.04547	9094.163	9493.764	-1.25724	7.91E-07	0.79539	7888.503	6270.836
0.07288	0.88743	4806.286	4282.836	-1.16813	0.0551	0.85607	4495.229	3834.482
0.60389	1.02433	6363.098	6518.173	-1.12823	0.06038	0.88635	6596.452	5841.414
0.8299	1.01673	1792.601	1825.394	-2.09119	5.74E-26	0.4782	1651.671	789.6202
0.95965	0.98009	72.62744	71.52245	-1.59264	0.53574	0.62789	68.14699	43.30074
0.47759	0.93902	1132.636	1059.102	1.16694	0.09031	1.16694	1136.246	1328.445

0.41816	1.04241	1990.822	2070.563	-1.00182	0.96688	0.99818	1967.361	1963.804
0.44572	0.75237	113.457	86.88927	1.29928	0.40979	1.29928	116.6279	149.329
1	1	18.26193	22.67332	1	1	1	17.59153	30.78891
0.35496	1.04963	1113.978	1170.218	1.06484	0.20846	1.06484	1089.381	1159.942
0.39894	0.81825	218.5351	180.1133	-1.10376	0.66435	0.906	158.8917	143.9516
0.89015	1.02227	490.3007	505.0533	-1.04989	0.54679	0.95248	1000.07	950.4627
1.64E-07	0.79649	3144.355	2504.669	-1.77179	1.09E-26	0.5644	2690.929	1518.281
0.18297	0.82043	461.2648	371.4235	1.2246	0.06458	1.2246	446.5451	544.4248
0.35169	0.89997	821.7577	733.7248	1.11267	0.22995	1.11267	668.3405	746.0621
0.19527	0.90273	572.8622	518.2378	-1.04699	0.72362	0.95512	504.3339	478.0294
0.62005	1.05515	719.0031	765.3165	-1.00996	0.91966	0.99014	741.5035	731.4971
0.68368	0.89784	6510.31	5532.58	-6.05263	0	0.16522	5901.013	976.9861
0.72917	1.0351	776.5658	797.9685	1.00783	0.93029	1.00783	795.6451	804.806
0.65603	1.02396	14480.89	14821.65	1.17713	0.00681	1.17713	14469.7	17050.19
0.15746	0.94201	29552.21	27850.29	-1.63474	1.29E-11	0.61172	29549.11	18059.14
0.71289	0.91888	532.0231	501.5492	-1.21207	0.04049	0.82503	458.5996	377.9746
0.30271	0.94197	22936.34	21567.1	1.12362	0.11237	1.12362	21911.93	24646.38
0.28561	0.88697	418.45	373.3481	-1.04545	0.57086	0.95652	578.7517	553.5064
0.25861	0.78228	179.1074	139.0909	-1.14083	0.77054	0.87656	108.6793	98.57622
0.14777	1.11594	477.9005	532.8056	1.15611	0.07659	1.15611	534.3701	618.69
0.11476	1.13062	10139.32	11504.38	-1.32593	0.0002	0.75419	10445.45	7875.433
0.0426	0.82519	725.3803	601.3117	-1.44227	0.00003	0.69335	807.3521	558.1945
0.78129	1.04976	277.7811	297.8331	1.11266	0.48901	1.11266	367.0483	403.1496
1.94E-18	2.44283	8538.379	20692.59	2.00952	2.93E-06	2.00952	9512.81	19468.19
0.63007	0.97886	6957.251	6804.84	1.1192	0.06433	1.1192	6397.968	7135.885
0.21777	1.09317	999.689	1096.307	1.24311	0.00162	1.24311	1030.632	1279.875
0.02359	1.1522	2768.617	3195.423	1.2294	0.00309	1.2294	2778.918	3403.727
0.00054	0.66922	1795.051	1193.852	1.04004	0.56038	1.04004	1316.574	1371.912
0.42963	0.86472	521.0337	459.2658	-1.21013	0.01493	0.82636	638.6986	528.4268
0.91341	1.01823	185.7653	189.3302	-1.31642	0.26647	0.75964	156.0553	118.811
0.41761	0.88102	929.9031	824.4506	-3.38133	7.37E-20	0.29574	838.8385	246.2599
0.73685	1.04402	437.101	458.1324	-1.03759	0.71965	0.96377	435.2987	418.5197
0.07646	1.22684	1002.889	1225.716	-1.12332	0.168	0.89022	1321.085	1167.284
0.13077	1.18399	1885.193	2217.451	-1.02024	0.73745	0.98016	3370.798	3308.826
0.34914	1.09761	1145.117	1251.272	1.22699	0.00798	1.22699	1172.001	1444.873
0.00234	0.7713	1546.207	1190.686	1.22821	0.00086	1.22821	1286.625	1582.609
0.34734	0.81074	252.1183	210.5553	-1.61216	0.14851	0.62029	165.9955	103.4033
0.1302	0.83294	1042.611	865.2016	1.4514	0.00001	1.4514	795.8651	1160.336
0.00465	1.12799	8302.52	9364.113	-1.19932	0.00034	0.8338	9576.38	7968.101
0.00021	0.68045	992.0764	669.979	1.08588	0.30097	1.08588	800.2332	871.0304
0.05728	1.1172	2700.187	3021.251	1.58736	3.29E-08	1.58736	2219.866	3517.149
0.87101	1.01919	511.201	524.9179	1.11575	0.51325	1.11575	474.6406	521.4347
0.37651	0.86027	255.6671	217.6834	1.28476	0.13363	1.28476	198.1163	255.2937
0.91513	1.01504	232.9973	236.5017	1.11423	0.45678	1.11423	221.9438	247.5065
0.01864	0.80851	970.4299	781.8447	2.03589	1.39E-42	2.03589	902.8586	1838.216
0.44993	0.95898	2024.931	1947.476	-1.11154	0.11465	0.89965	1880.53	1686.18
0.20227	0.86149	789.7529	685.5335	-1.06498	0.4127	0.93899	648.8265	608.3589
0.00027	0.82418	4813.283	3961.413	-1.0281	0.51843	0.97267	4359.822	4241.272
0.33602	1.0894	2506.06	2678.1	-1.29077	7.26E-07	0.77473	3601.947	2794.421
0.00082	0.69334	4612.69	3188.472	-1.09476	0.30795	0.91344	3723.828	3408.495
0.72195	1.09889	137.988	153.352	1.57811	0.1346	1.57811	119.647	185.2711
0.74322	1.02346	2106.542	2165.166	-1.07186	0.20906	0.93296	2142.893	2000.715

0.01349	1.16161	787.2955	913.1709	1.33785	0.00007	1.33785	906.2654	1212.693
0.00002	1.51055	2243.003	3418.695	2.59069	0	2.59069	1950.756	5053.736
0.29735	1.111	310.8451	345.7922	1.24641	0.12435	1.24641	329.8277	408.2295
0.12144	1.0717	4996.631	5351.025	1.00412	0.94131	1.00412	5692.824	5717.722
0.55685	1.0348	950.0925	982.051	1.07474	0.22686	1.07474	879.6029	945.7711
0.59165	1.02664	3700.068	3793.19	1.03278	0.50566	1.03278	4026.929	4157.154
0.00027	1.23662	1911.642	2362.666	-2.74397	2.22E-14	0.36444	2107.973	763.3167
0.03271	1.14064	904.0366	1031.059	1.65418	8.39E-09	1.65418	852.3671	1407.983
0.06981	1.09073	1130.63	1233.604	-1.36037	6.96E-07	0.73509	1260.622	925.8992
0.57246	1.06777	2954.215	3154.408	-1.03871	0.43013	0.96273	7569.027	7280.402
0.00585	0.72118	3940.159	2825.333	1.58745	0.00082	1.58745	3720.527	5950.185
0.23854	0.8977	18477.19	16555.75	1.09206	0.28519	1.09206	17820.68	19439.87
0.76744	1.01264	4296.513	4353.148	-1.06155	0.26844	0.94202	4127.716	3890.006
0.03862	0.75155	1092.786	805.2951	1.03366	0.74125	1.03366	1032.706	1069.551
0.24005	1.12042	364.3752	407.1277	1.06788	0.43569	1.06788	393.6389	420.3243
0.59767	1.09459	224.4067	243.1515	1.14037	0.45291	1.14037	187.2556	213.2925
1.08E-06	0.68154	906.7321	616.2365	1.06	0.30051	1.06	781.7023	828.6568
0.24817	0.78758	666.8463	510.1999	1.13275	0.2183	1.13275	612.4992	696.7981
0.02575	0.77701	3280.814	2558.406	1.38684	2.54E-12	1.38684	2776.453	3850.161
0.64613	1.03035	3485.233	3570.529	1.07873	0.24883	1.07873	3569.832	3873.688
0.70142	1.01686	1669.034	1697.116	1.14043	0.09346	1.14043	1594.177	1806.552
0.25949	1.17768	255.9022	299.0501	-1.03126	0.81147	0.96969	306.595	296.5527
0.00091	0.66949	959.3701	636.7534	1.09614	0.30805	1.09614	678.5841	746.4499
0.00014	0.64588	2764.215	1781.303	-1.2233	0.02982	0.81746	2012.88	1650.235
0.85882	1.04368	197.5425	201.125	-1.08543	0.67202	0.92129	183.01	168.7328
1	1	17.74903	22.28872	1	1	1	18.29732	30.06148
0.95783	0.98706	138.6007	138.0085	-1.03734	0.92386	0.96401	119.4844	112.5151
0.00186	0.7717	2591.867	2014.965	1.04348	0.45258	1.04348	2625.755	2738.945
0.91552	0.99311	1701.809	1687.726	-1.13822	0.02026	0.87856	1773.897	1554.613
9.51E-09	0.43109	598.0623	255.1263	1.11778	0.34836	1.11778	364.2537	408.2601
0.77911	1.02577	1773.219	1834.108	1.31864	3.69E-10	1.31864	1585.609	2090.783
0.97324	0.99759	660.1286	657.3535	-1.01541	0.82127	0.98482	645.4548	635.3595
0.29705	1.04534	9943.303	10399.13	-1.1331	0.00767	0.88253	9557.857	8431.182
0.52911	0.96984	2449.588	2379.707	-1.13267	0.04423	0.88287	2406.769	2125.452
0.93478	0.98907	247.9989	245.989	-1.08878	0.72273	0.91846	180.7795	167.6691
0.09052	0.91976	3785.089	3477.41	1.18511	0.00192	1.18511	3705.211	4386.454
0.38208	1.10314	330.3295	362.9874	1.25795	0.00619	1.25795	493.0737	619.3792
0.58867	0.9004	533.6683	491.3767	-1.14714	0.37093	0.87174	308.6762	270.7974
0.03165	0.84039	616.6188	519.7145	-1.07005	0.31486	0.93454	592.0713	553.3654
0.64269	0.91169	2522.008	2309.28	-2.2209	2.11E-30	0.45027	2206.778	993.5031
0.51629	1.1207	219.5813	246.7057	-1.05749	0.73298	0.94564	206.4272	195.0559
0.29262	1.04674	2673.44	2799.172	-1.09115	0.14625	0.91647	3246.843	2967.102
0.07331	0.79567	324.1437	259.0295	1.28996	0.10074	1.28996	281.9224	361.1456
0.74344	0.96236	2637.895	2538.597	-1.59639	2.55E-06	0.62641	1984.465	1242.851
0.77619	1.02943	1498.771	1551.487	-1.19722	0.00135	0.83527	1306.307	1091.017
0.27587	1.08352	1465.375	1576.906	1.07202	0.27802	1.07202	1586.142	1706.127
0.34326	1.13905	291.5728	330.5165	1.76569	0.0004	1.76569	273.4283	479.1727
0.01273	1.26095	2717.483	3436.773	-1.62207	0.0017	0.6165	4255.554	2585.225
0.79327	1.0308	254.5493	262.6078	-1.53506	0.00953	0.65144	237.4388	154.5954
0.21022	0.94944	4362.302	4142.029	1.0966	0.09209	1.0966	4010.682	4398.375
0.84009	0.96367	175.7064	169.3286	-1.09956	0.6986	0.90945	177.2748	161.1815
0.0024	0.76223	4689.101	3555.54	1.0375	0.64215	1.0375	3663.71	3815.479

0.0119	0.88866	1619.359	1439.038	-1.09859	0.09064	0.91026	1480.623	1348.441
0.3491	1.12046	561.5279	634.243	-1.49782	0.00055	0.66764	662.1787	439.5889
0.82202	0.86662	58.24105	49.3196	1.40324	0.59665	1.40324	50.97932	71.43835
0.03127	0.77654	2878.856	2216.406	2.22306	6.37E-23	2.22306	2220.888	4963.316
0.70112	1.02352	2859.215	2941.208	-1.13317	0.0521	0.88248	2817.588	2492.253
0.41854	1.07237	1315.026	1414.938	-1.14195	0.02888	0.87569	1398.921	1224.575
0.69789	0.92271	209.2779	195.8283	1.06895	0.68661	1.06895	234.1858	250.1732
0.96524	1.04914	32.63698	35.60001	1.24411	0.83017	1.24411	35.1795	45.26978
1.75E-06	1.22072	26967.55	32915.14	2.44936	6.17E-16	2.44936	28112.3	69433.23
0.51486	0.95673	2384.297	2282.25	1.60148	2.69E-20	1.60148	2014.084	3227.278
0.65536	1.03718	601.4898	625.7438	-1.05086	0.61316	0.9516	519.287	492.6928
0.80014	1.01315	1371.042	1387.439	1.02255	0.74221	1.02255	1360.771	1387.529
0.11082	1.18502	411.2407	488.2093	1.08069	0.54647	1.08069	857.7944	917.7136
0.33806	1.07989	738.0384	799.4316	-1.36498	0.00025	0.73261	915.6371	668.5214
0.00705	0.8304	27040.57	22472.46	1.08186	0.12649	1.08186	21865.32	23657.57
0.0671	0.82043	2461.429	2023.319	-1.39848	0.00009	0.71506	1591.71	1138.616
0.34768	0.87535	5518.919	4824.624	-1.74001	8.57E-22	0.57471	4688.76	2695.793
0.46248	0.9627	3161.2	3034.61	-1.12545	0.0588	0.88854	3013.934	2686.467
0.57448	1.10745	249.0205	279.1113	-1.03936	0.769	0.96213	377.9645	364.3619
0.59948	1.102	170.6631	187.2867	1.13806	0.65236	1.13806	151.5205	169.1255
0.00259	0.75532	1767.875	1327.126	1.23337	0.01087	1.23337	1581.919	1955.437
0.1656	0.89703	10888.57	9754.521	-1.19178	0.0016	0.83908	10128.17	8495.762
0.1825	1.06229	3782.6	4021.192	1.17646	0.00912	1.17646	3992.566	4687.195
0.39688	1.09434	1345.453	1475.635	-1.4597	0.00005	0.68507	1782.247	1208.928
0.00012	0.66014	5026.565	3295.674	-1.78438	3.01E-07	0.56042	4600.351	2550.449
0.15508	1.15559	26860.91	31024.23	-1.54052	0.00046	0.64913	35249.11	22585.48
0.00211	0.87828	2478.312	2176.461	-1.31086	0.00024	0.76286	2525.025	1927.411
0.45565	0.91422	4732.444	4343.593	1.10108	0.2197	1.10108	3923.505	4336.099
0.20329	0.87325	4248.707	3723.155	1.31762	0.00176	1.31762	3665.23	4856.417
0.02682	0.76994	917.7343	709.4865	-1.13142	0.14862	0.88384	722.3394	636.8558
0.6207	1.04314	400.753	417.6023	1.00436	0.96926	1.00436	396.9978	398.9606
0.00225	0.82988	2553.417	2125.646	-1.19602	0.00076	0.83611	2503.135	2093.041
0.44183	1.0365	1949.742	2022.802	1.01125	0.80632	1.01125	2004.052	2026.174
0.17727	0.84414	5251.389	4457.238	1.05685	0.60875	1.05685	4986.86	5296.653
0.7108	1.01558	5773.017	5864.917	-1.02506	0.61761	0.97555	5801.673	5657.143
0.53792	1.10578	287.0025	321.3603	-2.01509	0.08538	0.49626	211.4348	106.0747
0.14195	0.8471	1294.392	1097.717	1.32671	0.00082	1.32671	981.3336	1306.026
0.88609	1.02374	218.111	221.8345	-1.0841	0.76161	0.92242	172.8546	161.4565
0.34666	1.06008	603.6532	640.3026	1.00803	0.91617	1.00803	649.2952	655.4334
0.3252	0.75834	726.9124	523.7012	1.5353	0.0436	1.5353	568.9843	898.0702
0.57269	1.04608	507.747	532.2797	1.09673	0.38373	1.09673	475.1797	519.3128
0.47547	0.9283	4416.301	4135.025	1.32184	1.07E-08	1.32184	3835.573	5070.204
0.23364	1.15664	921.5053	1061.834	1.41943	0.00162	1.41943	833.9955	1188.734
2.58E-19	0.66429	2161.698	1435.653	1.13305	0.03303	1.13305	1446.839	1638.986
0.99919	0.99992	1211.747	1208.539	-1.11183	0.03289	0.89942	1112.526	1000.581
0.99225	0.99887	11580.74	11656.05	-1.01731	0.83934	0.98299	11159.79	10944.08
0.11369	1.12686	772.8611	873.015	1.62269	6.68E-06	1.62269	641.6694	1038.821
0.67342	1.0226	1511.546	1544.304	-1.30133	0.00011	0.76845	1379.111	1060.419
0.96527	1.00429	2897.816	2901.634	1.25318	0.0008	1.25318	2767.408	3468.006
0.50238	0.90131	5286.971	4804.329	1.33323	0.00392	1.33323	4706.547	6251.96
0.82797	0.91034	92.748	86.39432	-1.5712	0.38152	0.63646	97.55696	62.13382
0.88571	0.97511	228.912	222.8518	-1.33533	0.19287	0.74888	189.6125	141.5536

0.6488	1.13562	126.7847	141.996	1.1712	0.56794	1.1712	132.2172	154.5547
0.96644	1.00295	938.2324	940.0094	1.40272	2.98E-08	1.40272	1097.173	1539.872
0.04842	1.10929	4253.342	4710.687	1.06114	0.15813	1.06114	4828.842	5123.143
0.68724	0.97848	846.9373	828.7756	1.27097	0.0107	1.27097	837.4529	1062.936
0.54544	1.03793	1890.265	1956.453	1.03454	0.67484	1.03454	1974.751	2045.17
0.91221	1.01128	740.7852	754.8015	-1.04742	0.67244	0.95473	723.7705	687.1747
0.73068	1.04783	307.2277	322.02	-1.0003	0.99731	0.9997	584.8134	583.1193
0.34454	0.87904	1136.443	1004.68	-1.19625	0.00514	0.83594	783.2781	654.7735
0.07096	0.87263	1780.59	1548.207	1.47206	0.00009	1.47206	1499.229	2214.656
0.71572	0.97319	528.1124	514.4865	1.05786	0.5782	1.05786	430.0986	453.7808
0.26174	1.10434	470.6797	518.1359	1.80231	1.38E-12	1.80231	453.5143	818.7583
0.43503	1.06784	901.4135	963.8673	-1.05811	0.27066	0.94508	1934.402	1830.94
0.92129	1.01809	229.3577	232.8411	-1.1082	0.39006	0.90236	422.2935	380.4982
1	1	17.88288	21.81909	1	1	1	19.61737	31.63699
0.25712	0.82231	272.581	221.5566	1.02407	0.87371	1.02407	214.1439	219.3851
0.87667	0.98982	1118.361	1106.444	-1.07884	0.41815	0.92692	911.7947	847.8324
0.65278	1.03749	903.159	933.4752	-1.05514	0.46293	0.94775	845.8726	802.8455
0.87613	0.97898	296.709	292.4649	-1.28733	0.0489	0.7768	329.2482	255.7722
0.13599	0.82094	356.6904	290.5839	1.05769	0.70328	1.05769	303.6201	320.8068
0.00775	1.19775	2194.043	2627.255	-1.35506	0.00019	0.73797	2370.525	1750.055
0.6396	1.17301	91.39296	106.8967	1.18873	0.61112	1.18873	111.8999	134.3336
0.73277	0.93519	168.7271	158.3602	1.08493	0.76723	1.08493	137.7183	148.2564
0.92957	1.01102	891.1694	908.3993	-1.15189	0.08179	0.86814	689.75	597.6547
0.42057	0.91121	1569.625	1421.375	1.51411	0.00367	1.51411	1463.388	2225.955
0.00019	0.72792	1917.639	1390.903	-1.03946	0.70326	0.96204	1562.184	1502.451
0.1714	1.2114	406.8737	485.4756	-2.10366	2.48E-07	0.47536	348.2364	165.3469
0.03702	1.16321	500.8591	583.3748	1.12944	0.21876	1.12944	514.3497	578.7504
0.69193	1.02348	1684.168	1728.328	-1.0697	0.41177	0.93484	1696.703	1585.929
0.71853	1.0302	1371.415	1404.009	-1.03079	0.68521	0.97013	1308.909	1276.462
0.84034	0.98727	2070.113	2055.513	-1.17819	0.05284	0.84876	2189.957	1864.62
0.38853	0.95702	2466.679	2362.219	1.2296	0.00009	1.2296	2372.19	2916.66
0.62859	1.03826	1727.169	1809.464	-1.00749	0.90453	0.99256	1514.813	1500.331
0.08781	1.08415	1507.209	1634.042	1.61222	2.83E-08	1.61222	1453.374	2345.94
0.20354	0.89595	583.2927	524.2252	-2.90104	7.71E-25	0.3447	559.6705	192.991
0.30635	1.16848	246.1448	285.1064	1.15331	0.39859	1.15331	232.0858	266.0083
0.73779	0.98058	2195.231	2147.267	-1.08557	0.05686	0.92118	2199.804	2026.475
0.06626	0.80408	2244.498	1788.728	-1.05724	0.52408	0.94586	1846.094	1752.403
0.68222	0.96127	1236.448	1183.084	1.89181	8.91E-14	1.89181	1241.261	2362.872
0.26897	1.11065	411.4564	455.4088	1.18199	0.1669	1.18199	434.9993	510.4352
0.00623	1.13593	3011.754	3423.563	1.00597	0.90948	1.00597	3472.844	3490.336
0.63671	0.97667	4161.628	4072.392	1.07452	0.30777	1.07452	4054.924	4344.656
0.01626	0.79849	1045.438	834.1943	1.01672	0.7902	1.01672	899.0046	913.0747
0.70173	1.03031	771.657	795.5358	-1.08997	0.29319	0.91746	1145.854	1051.901
0.00029	0.79129	1602.945	1265.292	-1.08799	0.12981	0.91912	1421.02	1307.037
0.7122	1.07027	211.9651	229.4594	-1.02155	0.94062	0.97891	185.608	177.9453
0.98107	1.00199	486.3377	486.8583	1.20269	0.04784	1.20269	342.7379	412.3314
0.84368	1.14318	68.27272	70.04013	1.6543	0.13415	1.6543	83.74841	137.6538
0.20388	0.91709	14586.05	13406.32	1.15857	0.09053	1.15857	14590.21	16902.02
0.07218	0.81699	1706.026	1394.484	-1.05624	0.3723	0.94675	1508.268	1428.105
0.16686	0.86484	630.1047	541.082	-1.02586	0.76818	0.97479	571.3463	558.1625
0.75583	0.94919	218.9706	206.5773	1.34178	0.11237	1.34178	190.0207	254.4715
0.81312	0.98223	12823.28	12609.47	1.19415	0.00377	1.19415	13427.57	16050.8

0.06178	1.11061	2604.532	2888.621	-1.11063	0.04848	0.90039	3120.98	2805.574
0.94055	1.00974	463.3781	472.3322	-1.01554	0.90989	0.9847	482.8319	470.8827
0.01848	0.87956	1200.598	1055.234	1.38014	1.72E-08	1.38014	1175.018	1620.42
0.38633	1.06541	1211.654	1294.333	1.20893	0.01005	1.20893	1265.13	1524.71
0.65823	1.03628	403.9253	418.4558	1.02977	0.77783	1.02977	416.9186	428.1824
0.91956	1.03015	116.3972	121.3375	-1.45741	0.48467	0.68615	105.5567	69.56619
0.89231	0.97267	162.9442	159.22	1.11574	0.69642	1.11574	141.933	157.7159
0.71738	1.04597	728.8076	768.8531	-1.51695	0.00151	0.65922	559.2858	365.4815
0.40191	1.05118	11133.08	11711.87	1.05725	0.29629	1.05725	11184.51	11812.27
0.27896	1.08203	643.2771	694.6721	1.07544	0.31733	1.07544	669.3807	720.4601
0.02539	1.13196	2208.275	2501.363	1.06994	0.14174	1.06994	2508.367	2682.451
0.57361	0.97257	1917.34	1864.038	1.25728	0.0001	1.25728	1836.686	2309.372
0.89429	1.01502	941.8268	961.9445	-1.47734	7.66E-06	0.67689	795.8832	540.0408
0.62608	0.92918	39097.91	36506.18	-1.54248	0.00617	0.64831	36561.07	23381.23
0.81132	1.02091	17690.84	18137.2	1.08694	0.17754	1.08694	17471.59	18983.46
0.87506	1.00793	2130.981	2143.584	1.00448	0.91895	1.00448	3218.763	3234.498
0.00478	0.75481	1939.49	1466.528	1.15197	0.08513	1.15197	1584.6	1830.169
0.93321	0.99521	1324.729	1319.731	-1.16185	0.00674	0.8607	1498.421	1291.507
0.5432	1.02953	5832.955	6004.313	-1.19584	0.0008	0.83623	6073.881	5074.458
0.47968	0.9667	2091.361	2019.921	-1.09273	0.10973	0.91514	2186.648	1997.116
3.66E-14	0.63904	1053.555	672.5233	-1.06024	0.43726	0.94319	865.9674	815.4927
0.94719	1.01212	557.8204	574.5284	-1.11309	0.50775	0.8984	536.8055	475.8719
1	1	19.06846	24.19598	1	1	1	18.45179	30.45012
0.47213	0.94885	561.2712	533.0535	-1.13908	0.23785	0.8779	478.7787	420.7045
8.14E-07	0.78621	7842.952	6175.211	1.18399	0.00053	1.18399	7123.514	8434.549
0.60169	1.05716	373.2271	395.3543	-1.03828	0.74436	0.96313	358.5366	345.3121
1.50E-10	0.58824	6645.107	3892.229	-1.31737	0.00012	0.75909	6574.771	4971.502
0.94507	1.00395	1153.299	1157.06	1.1017	0.18707	1.1017	1011.858	1112.755
0.51471	0.91744	256.9916	236.4498	-1.18567	0.41446	0.84341	238.8197	199.7959
0.035	0.89993	3089.621	2779.521	1.217	0.00037	1.217	3103.3	3776.43
0.70737	0.924	208.2258	195.7966	-1.09393	0.74101	0.91414	179.579	163.1762
0.09961	1.09511	1044.553	1143.82	-1.58267	4.91E-09	0.63184	919.4303	579.8646
0.86692	1.02688	270.0317	279.2104	-1.02612	0.86458	0.97455	296.7086	287.3852
0.0837	1.09049	4404.237	4801.89	-1.17528	0.00452	0.85086	4597.974	3912.606
0.4068	1.07117	939.5718	1000.719	1.08737	0.14152	1.08737	1074.88	1168.068
0.871	0.98939	1004.41	991.5608	-1.06815	0.38349	0.9362	919.3485	858.3771
0.00027	0.74991	1816.133	1360.771	-1.00928	0.93294	0.9908	1581.436	1566.509
1	1	18.48232	23.51373	1	1	1	17.40411	28.87225
0.71396	1.02675	674.8718	694.385	-1.13789	0.30567	0.87882	661.698	576.764
0.80418	0.97756	553.9793	543.5165	-1.13235	0.34637	0.88312	566.3522	499.1155
0.84961	1.02984	769.7336	806.8986	-1.14746	0.09248	0.87149	658.4472	574.8829
0.76137	0.9852	2685.432	2641.435	-1.07776	0.09227	0.92785	2757.16	2557.636
0.43848	1.11467	310.8137	343.4177	1.47881	9.10E-06	1.47881	400.8525	591.9361
0.82252	0.9763	4091.681	3981.071	-1.55286	7.52E-17	0.64397	4582.6	2945.701
0.25257	1.17571	255.8784	298.8671	1.08021	0.37641	1.08021	522.9865	565.6978
0.3649	0.81685	194.7371	160.8059	1.77248	0.00016	1.77248	199.704	353.1231
0.32177	1.15261	398.9085	467.9589	-1.18369	0.261	0.84481	690.5313	576.3664
0.08203	0.82457	1227.203	1013.083	1.02119	0.74236	1.02119	1130.731	1155.937
0.49264	0.93349	5769.046	5387.717	1.3309	0.00295	1.3309	5146.471	6841.271
0.00731	0.65255	525.2538	336.8998	1.13725	0.49502	1.13725	399.0195	461.4335
0.17076	1.33671	225.8553	292.2071	1.64967	2.68E-10	1.64967	368.446	607.8195
0.49252	1.03526	2771.71	2863.818	1.04521	0.42399	1.04521	2985.675	3125.08

0.27049	1.04747	3573.427	3743.606	-1.06582	0.40154	0.93824	4001.351	3754.054
0.27775	0.92076	5033.269	4639.417	1.40365	1.24E-15	1.40365	4298.058	6033.144
0.53445	0.9663	1010.714	976.8499	-1.02713	0.57428	0.97358	2334.612	2274.162
0.93549	0.99534	1605.317	1601.261	-1.27366	0.00046	0.78514	1578.059	1237.333
0.03142	1.13512	1044.294	1182.564	1.0737	0.26236	1.0737	1043.892	1119.44
0.50435	1.08434	1708.331	1859.857	1.39928	6.82E-07	1.39928	1596.323	2236.083
0.76913	1.11017	123.223	131.1055	2.2614	0.00033	2.2614	101.2934	229.7331
0.39911	1.05662	1821.004	1925.47	-1.33721	0.00011	0.74783	1573.99	1178.325
0.0025	0.80738	2508.161	2009.459	2.36028	8.66E-43	2.36028	2427.386	5736.461
0.66067	0.96304	1239.883	1195.935	-1.30396	0.00045	0.7669	930.1865	714.6301
0.86877	1.01494	520.4551	526.2728	1.33097	0.06813	1.33097	478.1458	630.502
0.74737	1.02105	1512.047	1540.82	1.0603	0.30121	1.0603	1539.84	1633.106
0.07055	0.73862	522.5866	377.5547	-1.04531	0.66477	0.95665	375.1351	358.4289
0.75993	1.0373	432.6506	452.8339	-1.16323	0.34871	0.85968	433.8812	372.7422
0.63013	1.0554	558.3059	593.9802	1.1175	0.24153	1.1175	652.1017	726.3469
0.35215	0.93141	2120.158	1988.643	-1.20252	0.00956	0.83159	1858.01	1539.963
0.42523	1.0385	2153.029	2233.154	1.00438	0.92346	1.00438	2209.581	2219.116
0.2234	0.94484	2101.72	1983.577	-1.13539	0.0779	0.88075	2247.66	1970.888
0.3199	1.12847	381.1411	427.3878	1.04891	0.35924	1.04891	993.4455	1042.131
0.28031	1.16256	305.5981	356.2883	1.24409	0.08946	1.24409	257.2546	320.2871
0.54195	0.90558	318.342	287.5577	1.03563	0.79066	1.03563	358.363	372.9329
0.46792	1.19361	119.7301	143.4009	1.23672	0.55405	1.23672	95.67601	119.598
0.01058	1.24708	1415.286	1766.748	1.958	3.15E-28	1.958	1439.876	2825.917
0.56214	1.18232	130.3648	151.0902	1.29233	0.43965	1.29233	98.73062	128.0084
0.71745	1.03192	432.2302	446.6107	-1.00448	0.97252	0.99554	390.5776	387.596
0.00387	0.76542	9496.461	7275.726	1.10165	0.15489	1.10165	8249.254	9078.693
0.02739	1.11216	1115.935	1241.554	-1.14542	0.02278	0.87304	1269.07	1106.65
0.40672	0.84412	256.73	222.4735	-1.16103	0.34258	0.8613	222.3773	191.5378
0.95169	1.00586	635.9801	643.2647	-1.0684	0.49321	0.93598	469.47	438.4329
0.71571	1.02216	2663.615	2709.284	1.02211	0.67604	1.02211	2596.963	2660.974
0.81169	1.02529	502.5053	512.0202	-1.00938	0.90069	0.9907	497.813	493.1775
1	1	18.73048	23.76506	1	1	1	18.25082	29.98922
0.18161	1.09589	1510.064	1659.58	1.04303	0.56016	1.04303	1790.291	1862.74
0.59194	1.14382	284.2404	325.1202	-1.00629	0.89481	0.99375	3029.46	3006.569
0.36679	1.06994	971.4509	1036.816	-1.01268	0.83988	0.98748	858.6707	848.7067
0.948	1.00298	1979.899	1985.194	-1.20653	0.00007	0.82883	1920.928	1592.824
0.5724	1.10238	182.3932	201.799	-1.18878	0.33195	0.8412	209.8951	176.204
0.13153	1.16029	959.2361	1106.804	-1.09442	0.22086	0.91372	1078.094	982.9264
0.35031	1.0737	557.5195	599.4502	1.44916	0.00049	1.44916	473.483	683.1483
0.56641	1.0542	548.3214	575.4901	-1.02429	0.81217	0.97629	533.3333	522.713
0.43713	0.92018	322.3845	296.7582	-1.08774	0.54643	0.91934	266.1542	244.4769
0.35769	1.28544	142.8086	178.5316	1.53785	0.02413	1.53785	199.7238	310.3721
0.63785	1.09046	473.7934	524.7605	-2.18542	0.00003	0.45758	318.9757	146.3669
0.02746	0.69953	4462.547	3064.039	1.54084	0.00009	1.54084	3002.821	4694.634
0.18176	0.88573	1270.126	1123.407	2.3921	0	2.3921	1012.364	2422.916
0.17951	0.94211	13344.44	12568.17	1.13666	0.00845	1.13666	12621.79	14354.86
0.00027	0.84594	4963.457	4206.156	-1.03459	0.64832	0.96657	5223.946	5046.431
0.0179	1.11204	7617.218	8475.246	-1.11385	0.09062	0.89778	8537.844	7639.089
0.1041	1.11124	704.2239	781.2067	1.23834	0.01244	1.23834	684.4744	845.2055
0.28791	1.09538	490.6834	535.7977	-1.01596	0.88562	0.98429	461.6046	452.4333
0.26634	1.07951	1269.621	1368.574	1.30165	0.00017	1.30165	1206.307	1568.36
0.00014	1.4318	4722.273	6809.634	1.35985	0.00018	1.35985	5118.964	6966.531

1	1	18.7818	26.02156	1	1	1	21.89033	30.0939
0.7149	0.92845	366.8224	327.8249	1.30929	0.03826	1.30929	378.4679	499.4966
0.95024	0.9878	197.4404	197.2749	-1.20467	0.41632	0.83011	178.1244	148.6482
0.5877	0.94666	1258.269	1192.311	-1.49491	3.23E-10	0.66894	1231.383	822.9039
0.00002	0.78511	6946.886	5451.936	-1.14109	0.01695	0.87635	6376.732	5593.984
0.86212	0.92029	63.507	58.0456	-1.05198	0.9394	0.95059	49.34316	47.08552
1	1	18.13497	24.28858	2.24397	0.55113	2.24397	17.20814	53.20925
0.37876	1.05991	2352.552	2482.899	-1.36271	0.00036	0.73383	2415.187	1776.469
0.00329	0.65255	1255.236	809.2266	-1.04252	0.62623	0.95922	925.4447	890.2394
0.87632	1.00847	1021.874	1031.51	1.05727	0.32154	1.05727	1141.467	1205.509
0.00525	1.18968	1067.581	1268.728	2.25249	4.81E-15	2.25249	1146.127	2592.419
0.79399	1.02227	394.5348	402.8475	-1.02414	0.85306	0.97643	404.3979	394.6622
0.96868	0.99635	485.298	481.6133	1.0826	0.40765	1.0826	457.8049	496.5543
0.01747	0.80125	4672.033	3784.56	-4.72249	0	0.21175	4122.418	871.7983
0.17991	1.07707	2247.328	2421.855	-1.2107	0.00505	0.82597	2985.558	2465.377
0.99171	1.00179	188.3944	189.4259	-1.08688	0.70324	0.92006	197.7051	181.7901
0.17854	0.92528	1950.234	1797.824	2.33315	1.60E-25	2.33315	1501.813	3514.286
0.7539	1.05254	336.2863	351.7078	1.25978	0.00926	1.25978	699.5457	883.0683
0.19132	1.08994	5139.127	5623.558	-1.19756	0.023	0.83503	6086.739	5092.103
0.29972	1.05535	3718.512	3916.492	1.1423	0.0096	1.1423	3908.046	4452.498
0.69561	0.9413	257.871	241.3378	1.70572	0.00344	1.70572	209.3492	352.4778
0.02427	0.76515	1423.972	1089.144	1.16751	0.05327	1.16751	1387.772	1622.053
0.8144	1.08879	95.71497	103.8784	-1.29307	0.53402	0.77336	97.87811	75.73625
0.02794	1.19549	532.5554	638.3165	1.4747	0.00017	1.4747	493.8357	725.2827
0.77098	1.0166	2749.117	2775.593	-1.16447	0.03542	0.85876	3764.427	3217.801
0.53629	1.1014	305.5648	331.257	-1.06308	0.69985	0.94066	395.4556	376.344
0.45456	1.14503	325.3129	365.5716	1.29957	0.01098	1.29957	319.2407	414.7023
0.56483	0.93487	884.8705	833.122	-1.28865	0.00067	0.77601	678.5018	526.0366
0.25942	0.816	2177.597	1800.663	-1.46889	0.00058	0.68078	994.4753	679.0212
0.63368	0.88096	270.5877	228.3891	-1.32585	0.23023	0.75423	248.7321	188.9217
0.25329	0.85997	677.2993	575.7228	-1.20664	0.05337	0.82875	623.092	518.2447
0.5655	0.85938	223.2849	202.566	-1.30636	0.19851	0.76549	255.3206	193.2654
0.65191	0.94565	502.0474	480.0361	1.50737	0.00008	1.50737	645.0804	969.8277
0.07502	0.7214	3717.266	2768.167	-1.43961	0.00028	0.69463	1547.777	1070.547
0.32412	1.11802	6523.334	7409.2	3.70634	0	3.70634	6292.273	23379.93
0.32633	1.15408	252.5217	290.0018	1.25272	0.15856	1.25272	227.8256	286.6074
0.94187	0.99294	948.9667	947.0873	-1.00276	0.96567	0.99725	904.1481	900.4972
0.15677	1.07101	3944.778	4216.481	-1.10322	0.04552	0.90643	4340.468	3943.032
0.25312	0.86871	488.6346	420.2535	1.2927	0.03537	1.2927	416.676	542.5016
0.68126	0.9652	989.3665	961.2402	-1.05458	0.58861	0.94824	995.6864	938.3727
0.45971	0.95505	4932.751	4716.999	-1.37605	0.00001	0.72672	6538.376	4782.8
0.95533	0.96227	51.17995	49.74586	-1.13121	0.86419	0.88401	57.19627	50.46287
0.69909	1.04339	792.6103	821.4697	1.19437	0.00653	1.19437	753.5955	901.1251
0.91474	1.00845	584.4402	587.8104	1.00042	0.99601	1.00042	585.2765	584.3368
0.99526	1.00032	1351.514	1349.473	-1.08158	0.13732	0.92457	1353.445	1252.411
0.8018	0.98624	1775.355	1754.843	-1.11963	0.03436	0.89315	1814.25	1620.608
7.94E-07	1.82184	314.1902	567.7486	3.66815	1.40E-45	3.66815	322.7502	1182.875
0.77014	1.02345	605.1298	621.1623	-1.42067	0.01736	0.70389	518.6002	360.5878
0.00373	0.74379	8217.764	6150.29	1.17798	0.05974	1.17798	7577.503	8944.303
0.0366	1.10668	6244.7	6917.643	-1.15122	0.00447	0.86864	7097.98	6155.152
0.00158	1.29792	1942.183	2529.785	-2.18316	6.59E-13	0.45805	1940.368	884.706
0.01112	0.72238	1141.421	819.056	1.07831	0.38555	1.07831	1053.488	1139.766

0.59227	0.93614	9888.673	9268.708	1.22547	0.02993	1.22547	8890.045	10951.54
0.29337	1.08405	2129.582	2299.898	1.12884	0.00587	1.12884	2136.851	2412.305
0.29949	0.93394	1727.965	1615.965	-1.01943	0.82722	0.98094	1671.186	1632.224
0.69286	1.02151	224.5642	230.1781	2.49736	5.23E-41	2.49736	217.8858	544.4666
0.5438	0.93813	514.7388	479.7817	1.31284	0.01143	1.31284	427.8733	559.2941
0.63881	1.06893	306.9188	331.259	1.07591	0.69468	1.07591	243.1805	264.1585
0.13279	0.626	346.7374	205.6353	1.01231	0.96462	1.01231	256.0181	266.2015
0.55649	0.96117	1507.608	1450.311	-1.59136	0.00001	0.62839	1259.873	788.4413
0.98286	1.00336	233.7042	233.0843	-1.01524	0.93569	0.98499	207.9219	204.8714
0.16624	1.11469	688.3628	764.834	1.07325	0.39056	1.07325	682.074	733.9209
0.09176	0.79912	502.0356	396.2963	1.17124	0.35395	1.17124	357.326	423.2166
0.3888	0.94936	656.5561	623.3347	-1.22474	0.11045	0.8165	586.9736	478.9427
0.97484	0.97365	49.11971	45.34239	1.05008	0.94137	1.05008	64.5364	69.79277
0.52054	1.02658	8833.094	9068.281	1.06773	0.37009	1.06773	8509.124	9027.145
0.13382	1.38414	250.9921	333.6256	2.48074	1.30E-17	2.48074	220.6114	547.1217
0.50801	0.8153	163.0633	129.036	-1.1852	0.64411	0.84374	130.3809	112.577
0.33425	1.04122	770.9343	803.2953	1.2174	0.01081	1.2174	785.493	952.9326
0.90076	0.97335	472.1655	469.9453	-1.89107	0.00057	0.5288	422.5925	227.4935
0.37366	1.07456	481.0396	516.0512	-1.04313	0.63839	0.95865	496.6863	475.2792
0.85752	1.03437	221.7864	230.0003	1.039	0.68931	1.039	591.4806	612.5503
0.90528	0.93014	66.0685	61.95789	1.03651	0.95621	1.03651	55.51961	56.8115
0.27741	1.06781	1156.707	1236.816	-1.07762	0.22745	0.92797	1282.55	1188.863
0.02591	0.85739	4278.64	3658.595	-1.00843	0.88532	0.99164	3926.565	3885.418
0.95645	1.00549	3957.006	3946.763	1.37301	2.76E-07	1.37301	3970.431	5450.663
0.33887	1.06113	8092.055	8565.384	-1.10378	0.03694	0.90598	8885.079	8044.691
0.97142	1.00331	1669.249	1676.196	1.40716	5.94E-07	1.40716	1506.36	2121.657
0.33599	1.06047	3001.298	3171.161	1.00766	0.86838	1.00766	3322.196	3346.467
0.21731	1.05761	3367.516	3564.58	-1.06715	0.26475	0.93708	3588.49	3356.86
0.72257	1.03179	1180.009	1215.983	1.0025	0.98067	1.0025	1808.798	1814.469
0.64155	0.95275	785.5037	752.9882	1.17733	0.07437	1.17733	649.2839	761.9058
0.04162	0.76093	955.5803	717.1361	-1.05738	0.43064	0.94573	795.4191	753.437
0.78086	1.01278	1838.679	1861.993	1.17866	0.01685	1.17866	1806.486	2125.494
0.48134	1.06731	408.6304	435.5277	-1.01145	0.841	0.98868	994.6621	984.0721
0.0299	0.84155	484.1736	407.343	1.26795	0.00526	1.26795	510.9601	646.9998
0.7445	0.95783	2441.992	2299.938	-1.89694	2.05E-16	0.52716	2809.975	1477.702
0.00545	0.53078	12400.75	6213.069	-1.20666	0.37282	0.82873	8699.338	7156.787
0.57461	1.03845	752.6412	779.8959	-1.06181	0.42835	0.94179	803.1579	755.0701
0.02753	0.75707	2839.298	2168.388	-1.33696	0.00127	0.74797	1374.518	1033.532
0.99188	0.98616	22.03912	24.59294	1	1	1	18.92325	29.81913
0.8673	0.9148	65.57811	58.98054	-1.05026	0.93151	0.95214	61.36629	58.90247
0.47491	1.06596	683.8344	725.217	1.03503	0.64575	1.03503	802.8325	832.6058
0.96751	1.00927	189.541	195.4204	1.87058	0.00091	1.87058	158.2451	294.884
1.55E-08	0.70903	1048.012	742.6139	-1.37396	0.0004	0.72782	806.7571	588.8716
0.02182	1.14515	7507.578	8602.861	-1.28096	0.00019	0.78067	9109.328	7102.315
0.74004	0.98485	2080.986	2050.879	1.326	0.00011	1.326	2118.588	2800.524
0.56962	1.05348	525.0175	555.54	-1.00697	0.95487	0.99308	536.3235	528.832
0.23564	0.87801	1864.094	1636.186	1.34215	0.00054	1.34215	1518.807	2048.989
0.23089	0.898	8449.099	7569.961	1.16358	0.07995	1.16358	7921.972	9274.184
0.00154	0.80649	1292.093	1041.127	1.02669	0.78595	1.02669	1167.62	1201.219
0.76065	1.02026	5640.443	5753.771	-1.03668	0.51509	0.96461	4972.866	4809.842
0.00165	0.83501	3446.201	2865.575	-1.09811	0.18744	0.91065	3736.305	3399.837
0.49602	0.77417	81.05999	62.80412	1.22009	0.7425	1.22009	67.99926	86.69235

0.83812	1.06033	114.6445	121.4719	1.24504	0.53198	1.24504	107.3316	134.0366
0.00002	0.77427	938.5296	725.9705	-1.06549	0.44846	0.93854	1780.487	1656.832
0.18149	1.08623	1566.219	1705.99	-1.0034	0.95886	0.99661	1544.556	1537.367
0.957	1.01236	125.3259	127.1387	1.40796	0.26313	1.40796	106.3528	150.0295
0.3585	1.04424	1108.482	1157.651	1.04005	0.47209	1.04005	1110.723	1154.468
0.90787	1.00725	1089.298	1098.786	-1.10011	0.36328	0.909	1104.427	998.9901
0.15774	1.16153	756.6461	886.3673	-1.32734	0.00013	0.75339	708.2579	533.1552
0.06466	0.92132	21579.9	19890.96	1.06902	0.23919	1.06902	21655.5	23153.5
0.92289	1.0201	204.5116	205.9268	1.10178	0.51665	1.10178	223.9316	246.6747
0.52007	1.04297	5275.973	5496.544	1.00351	0.94761	1.00351	6448.179	6470.82
0.54882	1.03831	2674.125	2793.668	-1.17203	0.0092	0.85322	2782.75	2368.856
0.00159	0.80242	1513.667	1213.977	1.40749	6.90E-06	1.40749	1151.215	1627.386
0.86214	1.01631	564.952	572.7233	1.11876	0.17553	1.11876	678.1556	756.774
0.01849	0.84209	8462.906	7128.735	1.52105	2.94E-06	1.52105	8272.215	12658.55
0.00095	0.826	8251.893	6825.016	1.45675	2.10E-15	1.45675	6616.393	9639.109
0.21274	1.09841	1328.314	1452.698	1.04346	0.50597	1.04346	1600.64	1673.925
0.36605	1.07434	787.9596	842.7856	-1.03247	0.64829	0.96855	782.3456	758.5065
0.46296	1.33722	72.88719	96.82126	-1.09299	0.92398	0.91492	45.94936	41.55122
0.9142	1.1276	35.48879	41.80273	1.10098	0.94549	1.10098	23.92418	35.55009
0.93958	1.11341	23.0633	27.71321	1.23293	0.82181	1.23293	41.09615	50.34605
0.20048	0.9053	432.1101	391.1079	1.04071	0.77758	1.04071	373.9313	386.6354
0.71997	0.94962	333.7859	313.285	-1.01518	0.92245	0.98505	303.6912	297.36
0.17164	1.06294	1640.339	1743.11	-1.03645	0.6175	0.96484	1639.426	1577.603
0.03087	0.83698	5751.027	4805.208	1.06194	0.42929	1.06194	5213.609	5501.293
0.09059	1.29255	291.1537	372.6394	-1.13685	0.22287	0.87962	337.2503	296.7247
0.55595	0.91787	227.0682	208.9242	-1.01459	0.93937	0.98562	228.8958	223.7224
0.06644	1.1256	1360.187	1525.531	1.31453	0.0028	1.31453	1901.786	2487.366
0.04413	0.77098	280.6419	216.5139	1.58669	9.46E-06	1.58669	257.4963	408.5234
0.00213	0.78631	2273.11	1786.987	-1.11687	0.23043	0.89536	2010.527	1794.356
0.63619	0.94628	406.2761	387.1587	1.16627	0.30377	1.16627	307.0963	360.2239
0.00005	0.7865	2713.563	2133.673	1.00515	0.96559	1.00515	2349.978	2362.088
1	1	17.02547	24.0092	1	1	1	18.06996	31.8735
0.74443	0.95157	419.0324	403.6194	-1.17062	0.11749	0.85425	368.3281	314.793
0.96763	1.00415	347.1617	349.0447	-1.08673	0.47416	0.92019	338.7565	311.1664
0.06036	0.89827	1069.199	960.3584	-1.16414	0.01012	0.859	916.9868	788.0458
0.00015	0.73194	886.5697	647.1576	1.1378	0.18517	1.1378	637.4162	722.4782
0.53094	0.95381	5190.623	4935.152	-1.01053	0.85287	0.98958	5249.615	5200.762
0.31105	0.92943	1225.174	1142.25	-1.12014	0.19681	0.89275	1234.202	1096.755
0.96005	1.00643	866.3071	879.4153	-1.18909	0.02681	0.84098	1366.76	1151.476
0.79722	0.97334	1178.336	1142.214	-1.04874	0.49708	0.95352	1031.848	986.0958
0.92161	1.01258	278.0057	282.6563	1.35071	0.02642	1.35071	255.3122	345.7161
0.02598	1.25646	17548.88	21819.83	-3.24334	1.05E-16	0.30832	26494.93	7938.643
0.99881	1.00074	85.24176	81.569	1.03997	0.88521	1.03997	141.7791	146.4417
0.43493	1.0733	909.2445	971.1516	1.08463	0.36957	1.08463	844.1787	919.3712
0.91527	1.0106	536.2581	539.2517	1.04655	0.67386	1.04655	575.0382	604.3181
0.98642	1.00258	407.8836	403.4224	-1.06258	0.63248	0.9411	421.4239	398.5085
0.00099	0.65373	1623.537	1050.35	-1.0994	0.2729	0.90959	1223.143	1114.007
0.26661	1.11059	400.2622	443.1332	1.23771	0.00404	1.23771	442.022	547.1797
0.09652	0.81358	460.608	371.4013	1.38099	0.00348	1.38099	361.3688	500.8177
0.27556	1.20765	245.7689	292.2145	1.82459	0.00026	1.82459	194.0132	351.7625
0.00035	1.20232	5128.045	6163.369	1.95141	6.29E-07	1.95141	4851.042	9708.13
0.23008	0.90269	2296.021	2071.064	-1.07861	0.60005	0.92712	2252.373	2066.086

0.80209	0.94406	144.9818	136.3097	1.67484	0.00735	1.67484	151.6319	254.8089
0.08776	1.09299	3772.733	4130.67	1.12878	0.04603	1.12878	4203.193	4738.851
0.80321	0.95673	554.9014	519.5441	1.7308	9.85E-15	1.7308	423.6556	733.3893
0.61202	0.95727	792.0508	761.3384	1.11093	0.13799	1.11093	707.3663	784.6672
0.90611	1.01353	781.6653	795.6062	-1.09	0.12269	0.91743	1075.735	987.3043
0.00009	0.61584	2283.11	1392.582	1.63457	2.51E-07	1.63457	1600.268	2641.688
0.45193	1.11562	410.8472	452.6379	1.64704	7.55E-07	1.64704	372.9106	616.0133
0.01883	0.67545	2475.859	1629.919	-1.23435	0.24225	0.81014	1846.304	1483.207
0.63282	1.12756	205.3304	221.8149	1.8358	0.00015	1.8358	218.0692	403.5615
1.21E-06	1.39083	1173.171	1633.759	1.03949	0.565	1.03949	1266.514	1319.99
0.74852	1.03515	1701.352	1732.249	-1.10882	0.36142	0.90186	2088.918	1809.976
0.12471	1.20098	2040.193	2450.221	-1.07105	0.21269	0.93366	5101.96	4759.843
0.21826	0.80155	8933.557	7194.51	1.66797	0.00036	1.66797	8986.181	15044.68
0.25629	0.76244	165.2212	125.2764	1.37993	0.27913	1.37993	114.4284	158.0064
0.28592	0.89846	382.3215	343.3821	-1.14589	0.33067	0.87269	445.7218	392.7054
0.00011	0.58629	1641.154	956.9844	-1.56049	6.76E-19	0.64082	1334.249	855.0046
0.19274	1.24853	216.3297	267.114	1.44001	0.05881	1.44001	180.07	257.559
0.62238	1.03714	2404.414	2476.105	1.0277	0.6759	1.0277	2604.179	2688.359
0.78729	0.97967	1390.596	1356.688	-1.04641	0.46788	0.95565	1239.644	1186.703
0.39217	0.85961	401.9832	338.1614	1.61408	1.44E-08	1.61408	349.0538	563.5239
0.00041	0.83331	1163.98	969.8627	-1.00878	0.94309	0.9913	884.7544	881.7499
0.31018	1.05157	2159.304	2267.433	1.00307	0.95583	1.00307	2152.93	2160.864
0.95885	1.01727	103.3019	104.5506	-1.04834	0.89154	0.95389	106.9905	102.1008
1.64E-08	0.63676	2669.839	1692.74	-1.33223	1.01E-06	0.75062	2024.535	1519.305
0.84933	1.06993	127.5595	129.8687	-1.21731	0.39386	0.82149	205.3976	170.1608
1.14E-06	1.35299	1032.648	1398.696	1.37313	0.00696	1.37313	848.9018	1163.403
0.50541	0.86429	936.1298	817.1568	-3.73204	1.03E-37	0.26795	720.5159	192.8831
0.09638	0.91543	988.3464	905.2242	-1.12561	0.10592	0.8884	910.8322	810.8792
0.86928	0.97047	325.4691	311.127	1.14037	0.48662	1.14037	306.2118	354.4671
0.50916	0.83982	155.8313	132.3268	-1.47655	0.29391	0.67726	129.4976	88.01044
0.08005	1.09437	1316.57	1441.77	1.13476	0.04368	1.13476	1242.361	1407.281
0.74629	1.02729	1411.302	1453.864	1.79074	2.21E-15	1.79074	1163.166	2079.952
0.0774	0.91786	2752.951	2526.444	1.42307	5.50E-07	1.42307	2775.569	3956.822
0.87165	0.98888	628.0773	620.1853	-1.00626	0.95197	0.99378	596.044	591.1523
0.89098	0.96589	131.7256	128.057	1.14417	0.64558	1.14417	118.0505	135.9954
0.08853	0.9188	2452.038	2255.139	1.5678	5.36E-19	1.5678	2449.509	3839.786
0.03883	0.88459	3087.744	2738.497	-1.03026	0.58806	0.97063	2987.396	2897.51
0.00293	0.84154	1077.688	906.943	1.1596	0.13723	1.1596	1374.874	1594.317
0.59454	1.07988	219.5068	236.4806	1.18658	0.29888	1.18658	202.2211	240.5788
0.98105	1.01304	88.38403	85.57899	-1.02411	0.9535	0.97645	93.34502	91.07855
0.89087	1.01117	435.3044	440.4122	-1.16217	0.09418	0.86046	490.6251	421.5969
0.88619	0.9312	72.26888	67.07024	-1.02523	0.95362	0.97539	89.00652	86.10882
0.59172	0.95494	475.5302	455.2398	1.00208	0.9796	1.00208	447.1758	447.9734
0.94825	1.00483	1374.956	1391.481	1.02779	0.75414	1.02779	1301.004	1335.782
0.2557	1.0809	2595.587	2792.371	-1.0299	0.56571	0.97097	2866.193	2789.43
0.96456	0.97194	58.36295	56.69405	1.12039	0.76694	1.12039	95.3983	106.6845
0.68692	1.04309	638.5735	662.3382	1.23292	0.0337	1.23292	799.1931	983.0919
0.13237	0.93114	2904.126	2707.235	-1.0989	0.22608	0.91	3042.934	2745.523
0.2413	0.93645	1017.949	953.1212	1.30033	0.00644	1.30033	910.2047	1179.648
0.04022	1.13566	12744.1	14420.61	-1.28541	0.00007	0.77796	13076.82	10139.26
0.76091	1.03048	631.9204	654.183	1.00952	0.90594	1.00952	876.6296	882.9885
0.03349	1.16912	963.2023	1122.658	1.41111	3.57E-11	1.41111	1083.417	1529.567

0.12751	1.06583	7953.273	8475.771	-1.08592	0.26799	0.92087	8566.619	7885.731
0.27234	0.89648	3360.177	3032.757	1.01701	0.81251	1.01701	3033.281	3087.327
0.57738	0.88303	3196.865	2814.903	-1.65972	3.91E-15	0.60251	2604.469	1565.562
0.72351	1.01633	8435.477	8563.514	-1.03872	0.51196	0.96272	8303.562	7992.892
0.52221	0.87955	250.5046	223.8548	-1.13072	0.63915	0.88439	204.0291	184.609
0.4398	1.09374	757.1666	822.6376	1.53389	0.00026	1.53389	705.9	1080.79
0.93695	1.00489	1382.335	1387.676	1.1363	0.04918	1.1363	1418.774	1608.833
0.45402	1.06545	923.911	982.2228	1.2299	0.00019	1.2299	847.7953	1042.23
0.7009	1.46676	29.91692	43.60577	1.05108	0.96226	1.05108	33.21519	34.22407
0.11552	1.06976	2016.241	2156.785	-1.1306	0.0452	0.88449	2174.565	1926.13
0.00737	1.13395	1570.494	1780.641	1.70039	5.31E-09	1.70039	1490.479	2538.052
0.91017	0.99026	2659.604	2679.339	-1.118	0.21779	0.89446	2512.615	2233.227
0.00047	0.80464	1436.155	1154.342	-1.12896	0.02674	0.88577	1355.825	1200.191
0.08143	0.81196	999.0988	803.9744	-1.01808	0.79863	0.98224	832.2723	818.8106
1	1	19.45931	23.49977	1	1	1	17.66409	29.08762
0.76007	0.94582	201.73	191.8705	1.04366	0.81459	1.04366	190.7401	198.525
0.38943	1.15992	3767.807	4378.767	-2.29325	2.10E-06	0.43606	3692.685	1592.146
0.34227	1.04862	3418.557	3587.972	1.08921	0.1063	1.08921	3689.412	4023.343
0.92738	0.99043	451.3594	446.0077	-1.13326	0.17048	0.88241	439.2672	387.3869
0.93369	1.00617	704.4701	706.9471	-1.20863	0.01879	0.82739	745.5962	618.1482
0.5953	0.94667	672.0785	632.4161	1.57257	3.21E-10	1.57257	551.7505	866.6786
0.0754	0.82087	1151.979	941.6594	-1.02693	0.81755	0.97377	1218.533	1187.44
0.00206	1.26596	3969.284	5072.107	2.59376	4.20E-45	2.59376	3192.204	8269.91
0.00581	0.82611	1666.354	1378.633	-1.02947	0.73686	0.97137	1553.583	1502.186
0.0576	0.85437	4060.896	3469.777	1.62531	1.74E-14	1.62531	3548.596	5776.101
0.47352	1.04589	4880.063	5070.955	-1.02523	0.62279	0.97539	4754.029	4642.517
0.24379	0.88108	10958.08	9592.547	-1.19941	0.10176	0.83375	10161.36	8452.084
0.04684	0.8667	1317.491	1136.949	-1.16874	0.03435	0.85563	1216.797	1042.18
0.75266	0.9435	247.9152	233.8565	1.15157	0.25607	1.15157	244.4998	281.6078
0.8622	0.98682	770.923	760.5192	-1.16797	0.03357	0.85619	1089.844	930.994
0.33687	1.07946	807.412	867.5759	1.0668	0.25739	1.0668	911.747	972.5145
0.82957	1.05873	119.3821	126.0431	-1.16113	0.66315	0.86123	143.1316	124.1371
0.26679	1.10301	1434.829	1581.46	1.44798	1.43E-07	1.44798	1322.478	1914.489
0.00014	0.74416	1464.427	1089.684	1.16838	0.0947	1.16838	1106.315	1290.005
0.91753	1.00631	3091.51	3119.702	-1.26352	0.00032	0.79144	3231.104	2548.256
0.44558	0.88851	600.934	542.2116	-1.98332	0.00038	0.5042	567.5796	286.8646
0.63379	1.07576	463.8102	490.9101	1.22816	0.04069	1.22816	471.8113	581.6976
0.87042	1.01737	2304.892	2353.395	-1.08818	0.10761	0.91896	2476.964	2273.691
0.83797	0.97013	316.8986	310.3276	-1.31981	0.11793	0.75769	305.2371	233.7687
0.00393	1.22635	37918.13	46392.45	-1.15058	0.07364	0.86913	45923.91	39943.59
0.00003	0.56441	2090.967	1161.31	-1.84543	2.89E-11	0.54188	1530.589	829.3922
0.73438	1.06183	510.2233	536.0054	-1.16818	0.36488	0.85603	469.7275	399.0615
0.98988	1.0015	1891.676	1885.471	1.08214	0.33303	1.08214	1798.599	1950.931
0.00299	0.75311	458.8052	346.0302	1.18517	0.0951	1.18517	326.7459	387.5248
0.37137	0.88912	865.5625	776.5612	1.35285	0.00108	1.35285	1128.09	1523.349
0.29424	0.92597	1137.67	1053.119	-1.03889	0.51897	0.96257	857.5079	825.908
0.00002	0.46075	1105.076	494.59	-1.31587	0.05228	0.75995	715.517	547.4354
0.01377	0.70954	750.6402	525.3272	1.32926	0.00262	1.32926	597.825	797.5842
0.19335	1.09946	778.8811	858.1681	1.21528	0.08049	1.21528	693.5137	839.196
0.81888	0.95401	233.2446	227.9684	-1.73255	0.00049	0.57718	351.3068	202.8893
0.14493	1.16884	428.9118	499.2993	-1.07267	0.72142	0.93225	302.1168	277.9883
0.25598	1.05825	1821.731	1930.481	-1.07894	0.17465	0.92684	1832.021	1697.495

0.8271	0.98306	2478.596	2455.517	-1.10814	0.05361	0.90241	2387.66	2154.408
0.68019	1.07463	212.8947	227.3431	-1.00787	0.93665	0.9922	524.9213	522.3166
0.54853	0.9642	4189.32	4062.052	-1.17408	0.00657	0.85173	3827.637	3252.285
0.01204	0.87074	5141.062	4488.6	1.10366	0.32238	1.10366	4898.344	5373.307
0.63625	0.96995	1122.526	1086.985	1.57992	4.83E-14	1.57992	1205.92	1907.159
0.02333	0.83457	4608.447	3838.126	1.07663	0.31687	1.07663	3844.875	4142.268
0.8672	1.01894	333.1786	340.8206	-1.0129	0.9108	0.98727	299.3023	295.6606
0.34585	0.9208	501.5215	460.4611	-1.12497	0.33436	0.88891	379.3156	337.2543
0.19556	1.08576	769.6895	835.2087	-1.0723	0.11932	0.93258	1857.004	1731.513
0.82479	1.01847	799.8884	815.4021	-1.03177	0.57529	0.96921	1129.45	1093.707
0.43377	0.91431	1367.698	1247.841	3.07461	4.37E-32	3.07461	1348.334	4183.37
8.76E-21	0.59675	3970.431	2369.273	1.2314	0.04889	1.2314	3043.719	3748.858
0.11291	0.8974	42411.59	38368.98	-1.01544	0.76301	0.9848	44599.96	43916.17
0.01369	1.1215	8900.41	9985.098	-1.26592	0.00002	0.78994	9409.913	7431.6
1	1	17.9024	24.7822	1	1	1	17.8197	29.88398
2.83E-42	2.17222	3716.331	8042.574	1.15619	0.08658	1.15619	5703.911	6539.633
0.49209	1.08117	507.4854	552.6751	-1.0944	0.46463	0.91375	533.3857	484.2001
0.97778	1.00823	97.65947	98.15645	-1.00682	0.98627	0.99323	106.3935	106.6617
0.57798	1.09863	223.8362	248.355	1.22594	0.21281	1.22594	234.171	285.8735
0.02276	0.83289	1159.528	964.8378	1.18891	0.00111	1.18891	1715.775	2038.069
0.13172	1.11974	452.0372	506.5765	1.07418	0.42549	1.07418	465.7991	499.6061
0.70961	0.97851	4032.938	3929.69	-1.00373	0.92963	0.99629	3794.406	3781.505
0.137	0.92437	3544.632	3281.355	1.07194	0.15402	1.07194	3244.036	3476.339
0.07025	0.91227	1494.592	1363.646	-1.12454	0.08817	0.88925	1361.859	1210.861
0.10519	0.87252	476.6812	415.8657	-1.38554	0.03073	0.72174	312.2112	224.4258
0.00307	0.70331	1863.219	1300.869	-1.26523	0.01672	0.79037	1456.09	1155.12
0.31494	1.14123	354.5556	400.603	1.04088	0.67568	1.04088	502.8057	524.8235
0.19609	0.85571	1048.512	890.8274	1.69031	1.53E-09	1.69031	835.3188	1418.684
0.62993	1.02054	5701.909	5822.306	1.00677	0.88453	1.00677	5599.965	5628.928
0.45024	0.9073	912.343	839.5551	-1.19596	0.00194	0.83615	972.3524	812.7697
0.01199	1.16422	1826.869	2132.635	1.84561	2.15E-19	1.84561	1742.232	3218.195
0.82046	0.9847	1176.063	1162.107	-1.04002	0.62805	0.96152	1005.601	969.2511
0.19983	0.78005	8668.779	6637.456	-1.71941	3.39E-08	0.58159	5864.946	3369.819
0.2978	1.07839	541.3464	582.8585	1.03211	0.68767	1.03211	625.8803	644.817
0.04147	0.77842	1148.057	891.0459	1.01707	0.81796	1.01707	1061.339	1081.709
0.0727	1.18492	633.5595	747.1028	1.56329	2.94E-11	1.56329	567.3516	886.6592
0.12165	1.08188	4432.998	4800.593	1.09024	0.2817	1.09024	4939.62	5383.968
1	1	18.50904	23.15172	1	1	1	20.07763	31.60078
0.69614	1.04545	621.5621	644.4667	1.24778	0.0879	1.24778	709.3964	893.7644
0.99786	0.99978	1511.041	1512.688	-1.25938	0.00034	0.79404	1382.464	1098.356
0.4055	0.95206	1284.999	1221.91	-1.00735	0.90202	0.9927	1215.939	1204.813
0.48661	1.09811	275.0593	303.8484	1.06424	0.63493	1.06424	340.2653	363.8893
0.41453	0.92609	2206.072	2051.466	1.38054	0.01668	1.38054	1866.018	2615.041
0.09206	1.10374	2143.848	2377.01	-1.09821	0.11666	0.91057	2142.365	1945.937
0.12465	1.08562	865.3041	938.869	1.16578	0.01242	1.16578	887.045	1035.111
0.08699	1.10024	1079.761	1186.938	-1.04442	0.48946	0.95747	1118.728	1072.313
0.43332	1.05193	8299.284	8778.165	-1.04882	0.44405	0.95345	8982.08	8548.582
0.13879	1.09999	4548.33	5007.218	1.01828	0.75772	1.01828	5054.182	5159.779
0.73716	1.24695	41.38299	52.05411	-1.09953	0.93759	0.90948	35.06598	30.56117
0.11109	0.8139	2166.089	1809.224	-1.04319	0.41357	0.9586	2738.133	2624.41
0.03439	1.12327	769.0443	864.2708	1.18129	0.00351	1.18129	874.132	1033.076
0.89619	1.01862	424.1232	435.6598	-1.22606	0.11048	0.81562	399.4615	326.607

0.26418	1.07409	1470.262	1572.821	1.00018	0.99739	1.00018	2495.905	2494.106
0.71513	1.08631	187.5026	199.2976	-1.33333	0.36061	0.75	150.74	113.6162
0.67033	0.93711	1002.925	926.4285	1.24671	0.00077	1.24671	923.0582	1152.723
0.3931	1.07048	2287.838	2456.275	1.88971	1.30E-23	1.88971	2100.981	3968.705
0.96542	1.00492	313.1746	313.8506	2.09113	4.32E-17	2.09113	300.7048	629.2875
0.99909	1.00008	3066.575	3079.275	-2.51994	1.42E-18	0.39683	2998.216	1182.17
0.03596	1.13755	3403.316	3869.253	1.10187	0.02701	1.10187	3981.301	4384.486
0.06366	0.68638	439.4141	291.911	1.36086	0.0207	1.36086	291.4617	394.6893
0.12685	1.11102	533.6228	593.2667	1.05009	0.48927	1.05009	654.2647	686.5493
0.96578	1.00389	489.0294	489.1528	-1.13935	0.13478	0.87769	473.1409	415.1957
0.33253	0.90255	1502.207	1353.644	1.32898	1.74E-06	1.32898	1267.575	1688.149
0.01117	1.14467	1438.244	1649.722	1.10099	0.13845	1.10099	1535.162	1687.834
0.07522	1.11781	4585.013	5137.856	1.11582	0.13174	1.11582	5303.967	5904.348
0.75141	1.02879	648.5245	668.1666	1.0304	0.73059	1.0304	985.041	1010.421
0.93789	1.01336	254.4994	255.5158	1.01331	0.92595	1.01331	262.7368	266.9326
0.23717	1.09884	2147.352	2364.803	-1.08894	0.32542	0.91833	2308.565	2114.343
0.13533	1.07434	1441.954	1548.243	-1.03653	0.57741	0.96476	1629.727	1568.493
0.69584	0.96206	529.1062	506.478	1.68279	0.00009	1.68279	479.282	802.6832
0.43629	1.05298	2498.067	2624.078	1.01101	0.82482	1.01101	2435.06	2461.722
0.77794	0.97191	3093.397	3021.304	1.61156	3.12E-06	1.61156	2771.252	4487.817
0.61352	1.07901	213.7226	231.1874	1.15305	0.50295	1.15305	218.1555	248.8561
0.59356	1.05994	962.7116	1019.882	-1.1184	0.07859	0.89413	1249.186	1114.555
0.57382	0.88462	170.2811	150.2028	-1.03909	0.73704	0.96238	324.6303	312.6703
0.87775	1.02367	658.2577	664.8725	1.98282	1.12E-13	1.98282	583.7321	1162.845
0.63786	0.87377	128.1826	113.3216	1.16299	0.67477	1.16299	124.131	141.354
0.00012	0.59223	2156.161	1256.952	-1.32387	0.00134	0.75536	1497.892	1134.129
0.25339	1.13032	479.7429	546.0731	-1.47167	0.00369	0.6795	596.127	405.6849
0.82041	1.02357	946.4061	957.1265	1.02681	0.57296	1.02681	1324.042	1359.547
0.78126	1.03302	2621.743	2708.313	-1.20918	0.00043	0.82701	4818.833	3990.087
0.99311	1.00078	5621.556	5617.144	1.49036	1.02E-06	1.49036	5050.229	7546.187
0.62282	0.93221	281.2849	263.0355	1.01024	0.95466	1.01024	229.4524	230.9033
0.02061	0.81178	2044.672	1653.437	-1.01475	0.78606	0.98547	1726.182	1699.858
0.49418	0.93371	1062.595	989.5975	-1.00005	0.99959	0.99995	1139.567	1143.138
7.63E-07	0.72626	1723.976	1250.875	-1.29759	1.18E-06	0.77066	1510.693	1163.709
0.10703	0.88601	3702.734	3273.133	-1.77862	4.84E-16	0.56223	3318.214	1865.724
0.09185	1.1056	1326.771	1466.792	-1.0383	0.53035	0.96311	2610.506	2519.91
0.79755	0.90446	77.54787	70.33725	-1.25095	0.67581	0.79939	72.0612	57.65048
0.11595	0.79822	2420.105	1919.194	1.09595	0.52195	1.09595	2051.333	2257.707
0.25903	0.80328	1209.856	967.2382	-2.20768	6.79E-26	0.45296	1000.661	453.7401
0.47592	0.92781	3011.282	2769.271	1.13589	0.23367	1.13589	2854.566	3281.615
0.80356	1.06003	14714.65	15300.13	-3.761	5.01E-27	0.26589	18454.06	4898.129
1	1	18.87372	22.99928	1	1	1	18.76978	33.3522
0.19628	0.80652	348.5647	276.2442	1.99733	5.33E-10	1.99733	287.4156	572.2721
0.19789	1.22627	283.0161	341.8733	2.00625	2.37E-07	2.00625	214.6169	429.7771
0.15181	0.93287	2321.602	2166.042	1.16593	0.00097	1.16593	2006.967	2339.69
0.90468	1.00762	1939.694	1954.827	1.11174	0.01607	1.11174	1882.113	2092.34
0.82172	0.98547	808.7816	798.2097	-1.01318	0.87337	0.98699	657.0833	647.4363
0.9748	0.99092	133.725	130.8522	1.0147	0.96623	1.0147	138.1798	144.3146
0.61228	1.22849	104.2578	130.9884	2.60998	0.3593	2.60998	29.0443	73.84418
0.31484	0.87709	2135.313	1879.573	1.75231	9.61E-11	1.75231	1830.586	3226.424
0.5806	1.0351	783.937	812.735	1.01586	0.86304	1.01586	724.5295	733.5926
0.01907	0.72173	5699.862	4090.441	-1.20446	0.02461	0.83025	4335.47	3602.323

0.00384	0.73495	686.1388	500.7346	1.14851	0.18293	1.14851	526.1138	602.0322
0.05741	0.89516	776.1206	695.0543	1.13129	0.1189	1.13129	731.6486	825.7816
0.61033	0.97244	4181.368	4084.807	1.2237	0.01201	1.2237	4111.887	5023.76
0.72628	0.97157	3128.44	3049.988	1.44805	8.19E-09	1.44805	2900.711	4204.696
0.85655	1.21965	26.76321	32.31605	-1.3072	0.72959	0.765	55.22246	42.37389
0.08106	0.85282	607.5225	515.8709	1.82787	1.97E-13	1.82787	464.5665	847.7799
0.33132	1.09345	364.4638	399.2732	1.23114	0.10961	1.23114	364.6563	446.2106
0.00156	0.74612	1291.177	963.5785	1.23446	0.00376	1.23446	1227.64	1518.354
0.98946	1.00122	590.353	588.1555	1.31946	0.00011	1.31946	647.9218	856.1943
0.52364	1.03391	2694.854	2780.18	-1.20882	0.00286	0.82725	2918.862	2413.932
0.42129	1.0491	3993.097	4169.415	1.04734	0.27006	1.04734	3999.248	4189.72
0.97238	1.00596	178.7887	180.2721	1.29877	0.1384	1.29877	170.248	221.2461
0.71559	0.93198	201.0315	186.1554	1.30201	0.17897	1.30201	198.1598	257.7157
0.89358	0.98897	1859.428	1844.788	2.12556	4.80E-13	2.12556	2094.685	4441.45
0.07122	0.83273	747.5115	618.0619	-1.02256	0.82495	0.97794	681.6	669.4641
0.53502	1.03169	1127.273	1163.724	1.55229	1.99E-13	1.55229	1094.744	1698.027
4.09E-12	0.70599	2370.611	1672.136	1.34834	3.57E-08	1.34834	1883.953	2537.783
0.41494	0.87386	875.7721	775.9629	-1.55894	0.00115	0.64146	499.2044	322.5469
0.06961	1.25534	294.6103	372.2356	1.7212	0.00266	1.7212	283.2037	480.1873
0.00639	1.13029	5170.477	5855.042	1.10746	0.01965	1.10746	7446.757	8243.102
0.8578	0.98963	2814.83	2795.635	1.02589	0.64148	1.02589	2815.987	2888.1
0.90405	1.02489	7307.704	7416.127	-3.04849	4.21E-30	0.32803	8421.469	2748.954
0.02185	1.17598	746.9514	881.0432	1.19883	0.00716	1.19883	688.0758	824.0981
0.30128	1.07996	707.5995	761.9899	1.06006	0.40484	1.06006	785.8828	831.9606
0.92684	0.98833	354.1365	352.8884	-1.00172	0.98897	0.99828	346.1718	345.3677
0.13199	0.80264	13446.71	10765.22	1.31445	0.03595	1.31445	12004.44	15826.25
0.17893	1.06402	3074.664	3270.514	1.07751	0.09466	1.07751	3618.855	3898.924
0.0319	0.83441	1074.833	892.3554	1.43627	9.06E-10	1.43627	819.3084	1177.592
0.86858	0.96877	301.3341	290.9326	-1.1024	0.41146	0.90711	561.2722	505.1159
0.06835	1.11142	879.0532	976.4361	1.20969	0.01993	1.20969	992.2474	1197.25
0.07984	1.10763	4283.146	4731.642	1.21904	0.00003	1.21904	4352.186	5307.248
0.68786	1.57202	23.46651	35.45387	-1.51122	0.7328	0.66172	40.5743	32.31704
0.98031	0.99833	2242.902	2228.621	-1.09295	0.10521	0.91496	2401.009	2200.046
0.7338	1.03287	34446.25	35524.45	-1.26286	0.04405	0.79185	35588.76	27976.11
0.05666	1.12373	1052.871	1180.915	-1.03663	0.4888	0.96467	1179.341	1137.688
0.24077	0.83863	542.1951	460.1278	-1.47007	0.00165	0.68024	444.6325	303.6137
0.9364	0.99031	298.928	297.214	1.00755	0.97319	1.00755	244.3897	243.3135
0.90308	0.90901	43.58558	38.72069	3.189	0.023	3.189	39.28052	124.9468
0.26856	0.89175	4535.754	4046.866	1.00962	0.90874	1.00962	3551.031	3593.503
0.00053	0.77627	536.5812	416.3978	-1.36016	0.0043	0.73521	408.3971	300.6599
0.00325	1.21059	780.0931	943.3159	1.26337	0.00219	1.26337	772.2331	973.6987
0.11318	0.92242	2228.792	2055.95	1.36892	4.07E-13	1.36892	2078.315	2845.063
0.00001	0.74504	2400.206	1782.298	-1.02243	0.69689	0.97807	2169.604	2119.262
0.08703	1.09972	2299.714	2514.906	1.11654	0.07681	1.11654	2924.514	3265.652
0.6579	0.94365	1808.398	1706.429	1.57442	0.00007	1.57442	1577.379	2509.386
0.92772	1.0071	425.3666	428.4821	1.01617	0.9022	1.01617	383.1298	387.157
0.37274	0.95903	1315.049	1261.416	-1.10021	0.15569	0.90891	1200.19	1093.648
0.18464	0.81698	1138.116	924.401	-1.06417	0.34254	0.9397	1078.681	1013.872
0.39378	0.90831	3921.337	3580.142	-1.28968	8.03E-09	0.77538	3187.097	2472.333
0.00334	1.23327	16576.37	20592.66	2.87733	5.64E-26	2.87733	18230.32	53109.05
0.29252	1.08829	725.0535	785.9486	1.02506	0.73467	1.02506	758.1868	778.6176
0.1091	1.19286	715.1561	851.3384	1.2665	0.00006	1.2665	1189.239	1508.199

0.71727	0.8731	90.14281	79.12677	-1.78245	0.20287	0.56103	97.57606	54.78117
0.47584	1.0526	1627.719	1706.936	-1.01005	0.8537	0.99005	1730.317	1715.893
0.6376	1.04485	803.4271	837.6628	1.08693	0.12901	1.08693	991.9307	1078.462
0.83695	1.02402	277.9593	285.0441	-1.02734	0.86949	0.97339	252.5498	244.7387
0.00037	0.74646	2002.171	1490.002	1.11243	0.09795	1.11243	1709.216	1897.62
0.27238	1.04065	4541.533	4717.316	-1.094	0.0057	0.91408	4774.317	4366.758
0.3432	1.04669	3116.886	3266.884	-1.07338	0.13538	0.93164	3263.374	3040.089
0.28985	0.90633	3423.107	3127.693	1.18029	0.00515	1.18029	3526.584	4156.05
0.12001	0.69798	168.2631	116.8353	-1.53397	0.22925	0.6519	128.3652	83.76727
0.04095	0.77401	967.1306	738.9253	-1.04177	0.52542	0.95991	693.4071	665.5853
0.68333	0.98354	4431.913	4358.941	1.00858	0.86441	1.00858	4086.617	4118.505
4.50E-06	0.7286	1674.136	1220.304	-1.35592	0.00175	0.73751	1207.566	885.1946
0.80042	1.01278	2092.107	2120.184	1.09327	0.09441	1.09327	3371.566	3680.823
0.43978	1.07298	928.3174	990.8399	1.1115	0.22065	1.1115	1011.2	1129.359
0.96815	1.03141	62.88909	61.55472	-1.05009	0.9405	0.9523	62.91174	58.49799
0.6465	1.02287	6732.789	6879.197	1.52318	1.86E-07	1.52318	6065.956	9301.768
0.35727	1.08775	767.0337	834.8224	-1.00725	0.92126	0.9928	1283.099	1272.491
0.00652	0.81212	1573.363	1274.497	1.10659	0.18894	1.10659	1412.896	1561.274
0.24345	0.88387	3720.675	3293.934	1.47866	0.00021	1.47866	3215.01	4781.538
0.21849	1.10802	1240.869	1369.306	-1.01439	0.82176	0.98581	1353.15	1337.995
0.83759	0.98675	811.7746	799.4787	-1.10783	0.19059	0.90267	819.3956	737.7957
2.23E-11	0.70109	3695.502	2592.418	-1.38514	1.03E-12	0.72195	3147.384	2271.564
0.91468	1.0447	115.6839	125.1922	1.00943	0.96257	1.00943	273.7517	282.6891
0.42223	0.94724	542.1351	513.5485	-1.08336	0.32662	0.92306	559.3873	516.7259
0.09358	0.90029	1070.868	962.7517	1.23799	0.02223	1.23799	1006.018	1244.493
0.96695	1.00509	276.4792	278.3499	-1.23214	0.2314	0.8116	251.2932	203.0486
0.42509	1.04918	2442.515	2555.061	1.03121	0.46818	1.03121	2845.323	2933.931
0.40645	0.90995	2038.666	1860.752	-1.20762	0.00017	0.82808	1882.412	1559.565
0.97741	0.99851	1706.167	1702.248	-1.03088	0.6132	0.97004	1681.607	1632.615
0.4187	1.27312	98.93916	126.5947	-1.00149	0.99609	0.99851	112.2681	112.1048
0.10874	0.92082	2713.644	2499.999	1.11387	0.14777	1.11387	2362.924	2624.763
0.9606	0.99572	481.1805	477.994	1.02661	0.75198	1.02661	491.8143	505.3652
0.79502	1.03051	436.7963	446.9431	1.21375	0.05946	1.21375	486.0427	592.1619
0.15213	0.93246	1436.606	1339.719	1.55344	1.09E-16	1.55344	1510.27	2343.947
0.01944	1.25188	3630.853	4514.453	-2.30365	5.99E-09	0.43409	5608.44	2336.593
0.03828	0.86156	522.8086	450.6729	-1.23071	0.05096	0.81254	550.2118	445.285
1.16E-06	0.69241	2123.751	1473.358	-1.06803	0.40674	0.9363	2462.259	2296.075
0.21848	1.14363	1007.224	1164.255	-1.12178	0.04237	0.89144	2842.881	2524.837
0.00186	0.69312	865.9031	594.0067	-1.18057	0.09304	0.84705	765.0132	650.5139
0.26132	1.09824	382.1818	420.0639	-1.0019	0.98699	0.9981	431.151	430.9152
0.0013	1.1739	1779.208	2090.133	1.74726	4.41E-06	1.74726	1703.229	2982.515
0.74867	0.95965	1355.604	1307.693	-1.60066	0.00055	0.62474	1469.57	918.1
0.70124	0.98441	5820.899	5730.64	-1.20392	0.00132	0.83062	5823.604	4839.123
0.85165	0.98429	939.4564	921.538	1.11601	0.1208	1.11601	676.0291	753.44
0.1526	1.09592	642.8706	704.2029	-1.44537	0.00006	0.69187	636.8687	439.613
0.68829	0.95202	1825.574	1738.635	-1.03039	0.71167	0.9705	1440.598	1399.499
0.30386	0.94352	801.8789	756.8254	1.17132	0.05572	1.17132	692.4239	808.9407
0.36938	0.93443	2980.082	2787.257	1.38356	1.36E-06	1.38356	3832.292	5296.193
0.62438	1.7161	29.62239	46.20974	1.09002	0.93212	1.09002	30.95086	37.18187
0.00004	0.62016	2267.244	1410.543	-1.00069	0.99016	0.99931	1545.476	1546.667
0.42019	0.94514	1515.457	1430.693	2.64747	6.09E-34	2.64747	1469.485	3916.558
0.73388	0.97259	1116.267	1091.569	-1.06431	0.27253	0.93958	963.9453	905.3309

0.94394	0.97695	104.5924	103.335	1.39499	0.15764	1.39499	157.1433	221.6307
0.55954	1.09993	316.4467	355.0015	1.25486	0.32598	1.25486	276.2943	338.7356
0.1733	1.0862	878.747	953.4053	-1.01893	0.77553	0.98143	1012.271	995.1265
0.98868	1.00066	2426.757	2429.518	-1.0357	0.58788	0.96553	2663.588	2558.602
0.61067	0.94696	845.9207	798.3954	1.99061	1.39E-26	1.99061	755.2721	1505.226
0.36605	1.11132	2692.471	2992.206	-1.19918	0.006	0.8339	5030.122	4181.335
0.90831	1.00881	440.8326	444.6735	1.02671	0.78954	1.02671	457.3728	470.3195
0.08698	0.89516	6502.221	5825.359	1.06586	0.49849	1.06586	6073.409	6481.363
0.88364	1.06733	64.15876	68.46533	-1.04532	0.93326	0.95664	72.71155	69.32604
0.06145	0.7772	3404.649	2655.991	1.48247	0.00003	1.48247	2845.376	4233.347
0.89165	1.02157	254.2268	257.551	1.06684	0.73274	1.06684	223.0034	240.0269
0.0305	0.7181	3577.5	2534.552	1.00013	0.99914	1.00013	2770.95	2790.487
1.51E-14	0.71489	8862.578	6338.604	-1.33952	2.13E-07	0.74654	8590.356	6413.728
0.00735	0.59607	1018.415	591.0343	1.08943	0.41285	1.08943	757.9475	830.0024
0.49982	1.04779	1152.486	1202.458	-1.01884	0.70523	0.98151	1239.251	1216.644
0.25512	1.11365	419.9932	466.322	1.87306	5.56E-06	1.87306	381.5499	709.0566
0.48086	1.11491	249.9226	278.5405	-1.26771	0.22404	0.78882	214.6559	168.7575
0.42648	1.14215	160.1625	182.6679	100	0	100	401.8782	126287.3
0.87489	1.00978	5411.011	5492.272	-1.10127	0.19779	0.90804	5457.083	4960.548
0.40336	0.95572	1930.045	1843.859	-1.04818	0.55154	0.95403	1515.591	1443.493
0.3379	1.045	3387.226	3541.244	-1.10386	0.11383	0.90591	3174.046	2889.036
0.80295	0.97197	707.7135	693.9599	-1.27467	0.00057	0.78452	784.5873	614.936
0.08211	0.83408	1311.883	1099.365	-1.56384	3.61E-14	0.63945	1730.297	1105.284
0.26667	1.10067	1003.611	1112.576	1.23202	0.00039	1.23202	1031.849	1269.801
0.84729	1.01487	443.5516	450.4053	1.12581	0.23244	1.12581	428.5542	481.3568
0.3073	1.06164	4087.506	4344.454	1.00662	0.91921	1.00662	4474.588	4502.87
0.67621	0.90368	129.1945	116.6118	1.13697	0.78181	1.13697	80.24297	91.13424
0.87108	1.01775	366.1193	374.1946	-1.07022	0.54545	0.93438	347.2755	324.0671
0.94875	0.98561	169.3164	165.4867	-1.05514	0.78255	0.94774	179.5711	170.5053
0.45813	1.05327	1111.008	1165.467	-1.05333	0.437	0.94937	1157.555	1100.571
0.00103	0.72051	519.2294	372.4443	-1.05332	0.63131	0.94938	381.1603	361.4177
0.85077	1.03143	251.1703	259.5323	1.09661	0.6804	1.09661	215.7371	234.3423
0.71899	0.97827	916.1138	896.8621	2.12138	1.73E-27	2.12138	714.5402	1517.005
0.90416	0.98984	591.7042	583.6879	-1.00427	0.95992	0.99575	548.309	545.0033
0.00024	0.73419	3449.274	2527.163	1.27245	0.00046	1.27245	2643.717	3369.726
0.97812	1.00283	1701.288	1715.826	1.39802	0.00111	1.39802	1616.169	2265.134
0.91664	0.99393	4242.863	4213.347	1.3192	4.19E-10	1.3192	4072.616	5373.796
0.00018	0.84475	3590.649	3033.375	1.19663	0.02887	1.19663	3072.942	3669.51
0.01878	0.79371	1109.859	876.6374	1.32156	6.42E-08	1.32156	894.7766	1182.543
0.2681	0.92027	14346.75	13146.5	1.22744	0.01262	1.22744	14784.06	18206.97
0.00335	0.81639	719.0878	587.2697	1.1856	0.00011	1.1856	1781.904	2112.85
0.53934	1.10904	266.668	290.9948	2.85326	8.58E-10	2.85326	250.3438	710.9641
0.05697	1.09565	1506.45	1651.971	-1.14401	0.02109	0.87412	1857.065	1619.911
0.67696	0.96337	3174.826	3058.528	1.24404	0.00019	1.24404	2879.629	3586.916
0.96263	1.00506	581.5472	588.735	-1.01542	0.87184	0.98481	522.9049	515.0452
1	1	18.44455	22.8991	1	1	1	18.54672	32.6657
0.03468	0.69051	555.1404	390.4208	-2.01647	3.75E-08	0.49592	587.5931	292.7983
0.81311	0.97925	568.2995	558.6616	-1.08648	0.3541	0.92041	511.7499	471.3303
0.19935	0.86443	402.2672	347.8016	-1.22424	0.04818	0.81683	407.3873	333.1396
0.00133	1.18793	16147.99	19181.96	-1.42898	1.15E-15	0.6998	18317.02	12817.17
0.91507	1.03228	133.7128	138.5139	1.12637	0.43126	1.12637	239.781	269.4671
0.16309	0.81911	983.4169	795.7997	-1.04569	0.78156	0.9563	824.0896	796.1687

0.21665	0.83451	1539.674	1295.195	1.4333	0.00063	1.4333	1625.751	2325.634
0.92116	1.01001	1044.569	1047.207	-1.20018	0.00306	0.83321	1764.433	1467.022
0.1569	0.86346	455.783	391.6306	1.19628	0.03785	1.19628	418.257	500.2271
0.16116	1.30233	6877.959	8740.271	-2.39504	1.72E-10	0.41753	11106.21	4503.324
0.4417	1.03358	1883.418	1946.683	-1.041	0.63939	0.96062	1848.363	1771.336
0.13084	0.86543	1902.446	1646.721	1.30453	0.00263	1.30453	1957.485	2559.242
0.9643	1.00331	1587.166	1583.979	-1.06333	0.31733	0.94044	2792.906	2615.036
0.01326	1.16872	14885.54	17379.39	-1.68701	5.28E-08	0.59277	21737.66	12723.28
0.77337	1.03725	626.8597	656.9833	-1.74828	1.47E-06	0.57199	530.0426	304.0965
0.2029	0.89892	588.61	527.4614	1.20166	0.13917	1.20166	484.9009	586.9827
0.82309	0.96507	312.5573	306.5554	1.21679	0.02441	1.21679	407.8432	496.0019
0.96759	0.99279	196.832	195.8361	1.26327	0.48449	1.26327	167.2874	201.7784
0.84658	0.91978	95.26547	90.7458	1.34157	0.34243	1.34157	95.45181	127.6861
0.99086	1.00288	172.4981	169.4513	1.12581	0.63058	1.12581	118.3847	133.3073
0.25425	1.06311	1154.973	1229.354	1.02752	0.59909	1.02752	1310.047	1345.224
0.10587	1.12503	1045.643	1178.589	-1.21054	0.00427	0.82608	1384.231	1147.503
0.73878	1.0367	362.4478	375.1934	1.04152	0.71256	1.04152	330.1	343.9305
0.21961	1.0896	2237.159	2450.174	-1.28676	0.00026	0.77715	2385.878	1843.643
9.13E-15	0.68093	5293.875	3606.215	-1.31481	3.01E-07	0.76056	4475.709	3404.235
0.38191	1.07416	746.4081	798.2525	1.71632	1.58E-15	1.71632	656.8159	1128.821
0.00017	0.73557	816.3201	598.5974	1.96343	2.18E-21	1.96343	688.5198	1350.805
0.73499	0.95621	368.3229	354.9616	-1.19225	0.21824	0.83875	282.8156	237.5368
0.61077	1.15256	134.3631	155.8654	-1.28894	0.53938	0.77583	147.4889	111.3608
0.90411	0.98675	6506.887	6397.647	1.19511	0.01452	1.19511	5667.339	6800.448
0.68694	1.08013	2043.578	2197.816	-1.89674	1.42E-21	0.52722	3209.344	1686.662
0.21816	1.10976	673.6093	749.7936	1.98283	4.83E-06	1.98283	576.6541	1143.495
0.68973	0.93309	328.111	312.9682	-1.61205	0.01398	0.62033	288.6789	177.4166
0.50944	0.9332	3040.686	2823.625	-3.24424	5.00E-09	0.30824	2473.057	760.4952
0.38137	0.89595	10391.44	9382.305	1.78007	6.04E-12	1.78007	9429.541	16839.98
0.74595	0.93961	591.7579	542.5062	1.4625	0.00729	1.4625	463.1276	684.1122
1.39E-07	0.69874	1484.003	1034.403	1.00165	0.97296	1.00165	1316.002	1318.125
0.53889	0.93136	406.4869	381.1758	-1.20941	0.17612	0.82685	325.837	270.556
0.25588	0.82695	1099.026	893.1915	1.50329	0.00011	1.50329	832.9397	1259.935
0.30822	0.92082	513.1154	471.4535	-1.36038	0.00073	0.73509	476.9983	350.4685
0.31334	0.9067	1910.072	1736.761	1.54362	2.73E-15	1.54362	1691.013	2611.781
0.11212	1.0771	5969.818	6423.854	1.03536	0.58456	1.03536	6275.466	6486.297
0.02469	0.75937	552.4712	415.6031	-1.21794	0.02442	0.82106	472.4793	387.7981
0.6173	0.946	4013.05	3796.637	1.3421	0.00196	1.3421	3686.209	4960.356
0.02661	0.79662	9532.18	7621.961	1.18159	0.07637	1.18159	10295.3	12082.67
0.19906	0.91049	4633.448	4225.933	-1.13857	0.02606	0.8783	3946.883	3465.405
0.00691	0.79723	6211.557	4948.531	1.2671	0.01802	1.2671	5818.683	7309.509
0.27043	1.05138	1458.156	1533.495	1.04523	0.42619	1.04523	1745.8	1823.637
4.41E-08	0.71277	3550.187	2528.555	-1.02989	0.65611	0.97098	3116.272	3020.92
0.70534	0.97077	2724.801	2637.766	1.49568	7.62E-12	1.49568	2237.087	3357.375
0.91746	0.96929	24345.41	22669.36	-5.9396	0	0.16836	24616.42	4152.277
0.95089	1.03024	73.32013	77.22986	-1.37424	0.60232	0.72768	80.56411	57.18422
1	1	17.36657	23.44446	1	1	1	16.77516	30.20866
0.81588	1.03135	529.1218	550.5665	-1.33771	0.07668	0.74754	484.9866	356.1617
0.00429	1.32867	942.6804	1264.783	-1.3058	4.42E-07	0.76581	2007.295	1535.086
0.0165	0.81501	1041.17	845.4529	-1.16415	0.04792	0.85899	921.2542	792.6036
0.20944	0.87283	665.5001	584.6767	-1.04851	0.71398	0.95373	537.8382	509.1295
0.71022	1.04634	314.0419	326.8892	1.49346	0.00054	1.49346	292.1865	435.2116

0.97126	0.99651	418.6011	415.7096	1.7962	3.52E-09	1.7962	383.5346	691.189
0.66741	0.965	927.3006	894.2159	-1.03127	0.61908	0.96967	924.4744	896.6551
0.7424	0.98171	2024.77	1991.736	1.01255	0.78125	1.01255	2799.75	2834.682
0.07254	0.80103	8762.005	7004.475	1.48278	0.00009	1.48278	7044.342	10484.74
0.564	0.97361	3235.399	3150.868	1.45089	1.35E-13	1.45089	3156.648	4578.919
0.92953	1.03138	96.29958	98.01416	1.23268	0.51029	1.23268	87.97629	108.4901
0.93741	1.00615	482.4453	486.2248	1.00732	0.9567	1.00732	396.2858	398.0817
0.45699	0.90986	271.2015	247.079	-1.15729	0.37175	0.86409	238.058	205.1809
0.6505	1.03549	939.4428	967.8159	-1.10425	0.15085	0.90559	907.2896	823.0111
0.04169	1.31465	222.163	292.4575	1.51475	0.01807	1.51475	212.0163	318.1783
0.62685	1.07227	287.2575	310.5239	1.01963	0.91443	1.01963	228.1454	231.5052
0.74197	0.84977	69.17081	59.51872	1.44843	0.46121	1.44843	51.1654	74.16286
0.61906	1.03714	1383.082	1428.179	1.01	0.86731	1.01	2542.286	2569.167
0.12135	1.09258	5555.851	6083.655	-1.30454	9.27E-10	0.76655	5607.004	4296.981
0.882	0.98549	1013.604	1000.938	-1.68801	1.72E-06	0.59241	945.2597	556.3734
0.94743	1.0111	203.8592	205.0304	1.03523	0.85915	1.03523	231.9306	239.2584
0.68061	0.96295	1604.905	1541.705	1.12923	0.08013	1.12923	1512.796	1706.928
0.43718	1.06284	1613.095	1707.354	1.15946	0.00596	1.15946	1525.455	1771.933
0.64971	1.0513	1357.183	1432.289	-2.07886	7.50E-36	0.48103	1402.037	674.1854
0.95832	1.00359	11204.72	11274.88	-15.71742	0	0.06362	10158.87	644.527
0.06168	0.84644	754.3476	641.3174	1.09683	0.3387	1.09683	643.4147	703.0476
0.8686	1.02037	471.2003	484.9715	-1.38334	0.23037	0.72289	289.7071	219.5566
0.69631	0.88748	236.6712	193.4677	1.04575	0.74879	1.04575	357.9448	376.6847
0.39744	0.90306	341.812	307.1663	1.20475	0.10783	1.20475	310.0628	372.7672
0.48981	1.08193	243.9052	263.7364	-1.06353	0.75421	0.94027	264.6401	248.1948
0.00009	0.78284	1523.581	1190.997	1.12896	0.0262	1.12896	1298.565	1465.576
0.88603	0.99426	95003.02	94456.33	1.05267	0.36084	1.05267	108439.8	114143
0.00527	1.28289	10951.8	14142.61	1.4548	7.80E-13	1.4548	10553.28	15351.59
0.71214	0.98029	1199.995	1177.401	-1.23396	0.01005	0.8104	1248.542	1016.53
0.03058	0.81753	5186.754	4244.123	1.11808	0.11909	1.11808	4488.98	5013.795
0.10843	0.87891	625.2565	551.2319	-1.01892	0.83316	0.98143	456.1593	447.1788
0.82112	0.97157	576.5985	566.0577	-1.35162	0.01676	0.73985	536.006	393.4115
0.37226	1.04586	1133.493	1186.094	-1.05274	0.40786	0.9499	1066.143	1011.136
0.00159	0.70516	1451.571	1017.514	1.01332	0.80151	1.01332	1193.024	1208.672
0.25512	0.65483	137.114	87.31799	1.02888	0.93465	1.02888	104.1452	107.2468
0.48246	0.9575	4050.946	3885.057	-1.08435	0.15836	0.92221	3567.495	3287.117
0.1932	1.0588	3671.25	3889.261	-1.15941	0.00955	0.86251	3952.271	3402.845
0.00361	0.83799	157012.8	131692.5	2.01906	1.18E-18	2.01906	177359.8	360543.6
0.89846	0.98104	290.0003	283.3318	-1.07438	0.68336	0.93077	272.965	255.7821
0.06487	0.86251	1721.689	1483.948	-1.69156	3.13E-08	0.59117	1803.208	1060.074
0.32045	0.87414	1147.167	1002.782	1.07733	0.4595	1.07733	1034.163	1107.718
0.99789	1.00074	171.6321	172.5043	-1.80318	0.14798	0.55458	112.0176	61.83721
0.88214	0.95872	16394.67	14783.36	-17.29769	0	0.05781	10588.15	612.8544
0.04269	0.81019	1318.494	1061.117	1.27472	0.00002	1.27472	1045.973	1333.906
0.97846	1.00612	255.3223	265.9286	-1.48596	0.09329	0.67297	235.4204	158.2461
0.0061	0.72959	960.9083	697.2138	1.07715	0.47411	1.07715	1065.613	1147.568
0.00187	0.65082	846.1918	541.7607	1.18591	0.13905	1.18591	594.3381	708.7012
0.20136	0.8215	1429.516	1181.858	-1.38918	0.00089	0.71985	834.9332	603.0447
0.20965	1.05691	2114.104	2235.37	-1.17731	0.00018	0.8494	2409.466	2046.619
0.03131	0.83143	1301.575	1078.47	1.05208	0.43805	1.05208	1145.166	1205.804
0.76882	0.97918	2533.059	2481.823	3.47885	0	3.47885	2420.623	8435.299
0.80419	0.80686	51.3324	41.76857	1.42844	0.50615	1.42844	60.22065	86.64007

0.45423	0.91606	461.4716	419.1563	3.72606	9.35E-35	3.72606	574.7816	2140.367
0.0179	0.79788	4308.766	3444.445	1.19096	0.05815	1.19096	3389.338	4057.274
0.94316	0.992	1000.05	997.2465	-2.30849	1.36E-28	0.43318	863.1177	374.0615
0.12246	0.77836	10846.72	8489.014	1.1069	0.50605	1.1069	11551.8	12716.39
0.23041	1.09334	2783.507	3029.788	1.05374	0.27947	1.05374	3037.828	3203.726
0.20388	1.07061	771.8801	826.1777	1.08601	0.16008	1.08601	867.1663	941.1063
0.56994	0.85466	332.861	303.5992	-1.86458	9.14E-06	0.53631	378.0087	203.0947
0.00335	1.24238	893.5476	1114.55	-1.05704	0.41091	0.94604	1071.019	1012.167
0.06778	0.79784	3094.941	2455.009	1.23734	0.02537	1.23734	2499.97	3108.886
				1.32131	0.01536	1.32131	231517.9	305907.4
0.35106	0.95885	1425.62	1366.917	2.5457	7.14E-25	2.5457	1282.954	3271.948
0.39679	0.86914	272.4882	234.1754	1.89039	2.00E-07	1.89039	223.9174	424.114
0.70757	0.96819	9670.701	9436.576	1.65119	4.21E-09	1.65119	10331.22	17186.31
0.39404	1.05071	1125.168	1183.9	-1.1315	0.14848	0.88378	1187.501	1044.624
0.00324	0.76722	572.4786	437.5964	-1.09249	0.25931	0.91534	749.7848	687.6024
0.00121	0.75857	6794.186	5160.059	1.08969	0.18693	1.08969	5491.542	5987.931
0.0619	0.73661	5356.826	3901.757	1.06405	0.6651	1.06405	4354.353	4628.177
0.38484	1.05456	6073.86	6427.729	-1.12037	0.01429	0.89256	6324.505	5647.089
0.01031	1.13125	2971.248	3360.597	-1.43454	1.24E-06	0.69709	3400.244	2366.055
0.45695	1.14192	203.5386	230.1549	1.43309	0.00927	1.43309	214.5971	307.967
0.11018	1.10972	758.5624	843.5198	1.00624	0.93703	1.00624	824.6696	828.3001
0.72352	0.94302	409.0007	393.7546	1.35644	0.09925	1.35644	521.3489	696.9841
0.25199	1.06317	2652.283	2822.829	-2.97365	1.49E-38	0.33629	2863.843	962.18
0.35068	1.08186	520.4592	561.3037	1.2488	0.02041	1.2488	522.8696	650.8142
0.61244	1.05286	405.0138	425.0941	-1.82815	0.00147	0.547	333.1539	180.6722
0.00355	1.21227	1234.43	1495.323	1.5016	2.61E-08	1.5016	1882.889	2835.294
5.94E-11	0.66167	1115.07	736.9604	-1.22298	0.00376	0.81768	866.0573	707.3339
0.55127	1.05449	810.1013	859.0103	-1.13338	0.10737	0.88232	904.8489	800.3936
0.51716	0.95346	1482.067	1417.859	-1.11631	0.1348	0.8958	1437.261	1286.279
0.35384	0.921	913.5023	845.2041	1.02394	0.82829	1.02394	1420.875	1452.667
0.88784	1.03826	133.6382	140.6263	-1.36338	0.47024	0.73347	108.7005	80.0864
0.00798	0.85723	19515.54	16701.77	-1.80563	5.28E-33	0.55382	19971.34	11063.04
1	1	18.02922	22.74691	1	1	1	18.30682	33.15809
0.14005	1.13087	699.064	787.1153	1.12288	0.07144	1.12288	799.0021	897.7184
0.68713	1.03725	9534.487	10067.85	-1.22581	0.02957	0.81578	10198.13	8220.418
0.41569	0.96299	17090.48	16459.33	1.54505	4.14E-08	1.54505	16261.33	25167.64
0.01456	0.8523	5252.148	4467.307	-1.00212	0.96701	0.99788	5269.599	5255.108
0.00018	0.81016	2744.653	2222.728	-1.4115	4.50E-06	0.70847	2541.773	1795.573
1	1	19.1604	23.37016	1	1	1	19.1987	33.05536
0.00599	0.68803	1253.409	853.8062	-1.08105	0.50002	0.92502	1044.596	968.1337
0.05655	1.161	14987.28	17289.97	-1.22369	0.00058	0.8172	13668.62	11200.56
0.0658	0.84286	4977.29	4190.486	1.00686	0.89221	1.00686	4651.056	4678.744
0.0078	1.27449	2148.165	2744.445	-1.3523	0.03165	0.73948	3346.055	2425.724
0.01854	0.84951	8064.021	6832.333	-1.03155	0.56897	0.96941	7968.904	7735.776
0.0264	1.15218	3323.124	3825.466	1.4557	1.01E-18	1.4557	3181.979	4631.971
0.01238	0.78331	1819.28	1426.768	1.27933	1.48E-07	1.27933	1522.247	1947.974
0.00473	0.77177	2336.51	1795.936	1.04526	0.6477	1.04526	2220.063	2316.446
0.06401	0.83556	2002.769	1676.363	1.18165	0.04381	1.18165	2048.21	2414.081
0.94723	1.01246	165.8253	167.5948	-1.10584	0.729	0.90429	141.2313	126.5953
0.00067	0.75998	7114.286	5413.95	-1.49375	1.25E-08	0.66946	6108.34	4083.376
0.22083	0.8599	6657.791	5738.329	-1.53082	0.00029	0.65324	6813.956	4343.113
0.20075	1.07227	3582.662	3853.438	-1.10594	0.05648	0.9042	3637.548	3298.091

0.65952	1.05062	403.0726	420.7411	-1.10598	0.22708	0.90417	445.983	403.1364
0.01522	0.66373	873.9338	567.5214	1.24658	0.07909	1.24658	611.4413	768.3882
0.61978	0.94455	2490.942	2352.49	2.6106	0	2.6106	2267.066	5915.307
0.70329	0.9325	291.621	275.4359	-1.50987	0.12685	0.66231	189.0721	124.0201
0.00304	1.20607	1210.823	1462.452	1.28709	0.03203	1.28709	1121.45	1438.953
0.92288	1.00772	441.9716	445.9028	1.01519	0.89062	1.01519	485.8273	490.9062
6.80E-06	0.74723	989.0046	739.5293	-1.6065	6.26E-10	0.62247	912.2822	566.782
0.65367	1.03022	2765.058	2834.583	1.08421	0.06036	1.08421	2932.079	3178.685
0.78893	1.02017	755.2742	772.6041	-1.00737	0.9007	0.99268	1744.689	1736.136
0.33036	0.95523	1314.729	1256.026	-1.16342	0.05419	0.85954	1181.913	1010.806
0.66089	1.07231	287.9664	310.9782	-1.0792	0.38225	0.92661	442.0438	409.5815
0.4538	0.90696	2587.364	2314.112	-1.77799	5.52E-23	0.56243	2321.66	1306.328
0.75885	1.04224	418.8866	430.7544	1.56209	2.86E-09	1.56209	577.1823	902.887
0.20972	1.09818	1652.295	1804.99	1.23045	0.01317	1.23045	1812.491	2239.001
0.01611	1.16271	528.395	614.2127	1.16592	0.07512	1.16592	642.9119	747.6222
0.93806	1.00864	379.1799	381.0331	-1.08134	0.58982	0.92477	352.0184	325.9334
0.02421	0.87847	4835.182	4248.631	-1.33834	2.53E-09	0.74719	4710.209	3518.135
0.14249	0.74695	3505.011	2638.911	-2.82234	2.07E-29	0.35432	1391.43	492.6849
6.03E-06	0.81185	2234.796	1814.368	-1.08382	0.13987	0.92266	1977.055	1824.959
0.00614	0.68667	4786.267	3250.773	1.04727	0.62384	1.04727	3654.467	3825.158
0.04872	0.71898	322.372	228.8742	1.11258	0.38675	1.11258	271.5448	302.4684
0.06358	0.74116	360.3024	263.2629	1.11249	0.41415	1.11249	351.1444	392.5175
0.11776	0.80502	450.3098	366.626	-1.38107	0.00879	0.72408	548.059	399.8922
0.72885	1.02382	771.0834	788.9962	1.83656	1.25E-23	1.83656	1079.849	1982.458
0.66607	1.03042	952.4667	981.7874	-1.18112	0.00309	0.84665	1288.291	1090.666
0.4998	1.03188	8239.213	8509.065	1.55588	2.42E-14	1.55588	8084.367	12586.81
0.1819	0.87761	1012.22	884.121	1.18413	0.09769	1.18413	838.267	998.4763
0.3978	1.06469	1872.599	1992.996	1.04769	0.29707	1.04769	1730.363	1812.706
0.0002	0.8426	4866.197	4097.977	1.06886	0.20343	1.06886	3938.548	4217.66
0.90327	1.08457	53.75291	56.87047	-1.08592	0.9343	0.92088	32.62637	36.19543
0.00213	1.4294	428.4934	607.5824	1.77546	2.24E-07	1.77546	390.0041	696.0288
0.61688	1.05551	279.7582	294.9614	1.16685	0.29023	1.16685	273.6133	319.2634
0.06714	1.22968	908.6821	1115.059	2.06772	1.77E-10	2.06772	832.8114	1744.152
0.92045	0.99386	4318.894	4306.204	-1.06668	0.28313	0.93749	4542.401	4243.448
0.31852	0.9158	792.2672	721.508	-1.0597	0.47213	0.94367	740.4561	700.1903
0.92694	0.9931	766.9179	760.4854	1.0088	0.9037	1.0088	612.5692	618.447
0.2669	1.04966	6876.687	7213.402	3.50348	6.24E-28	3.50348	6276.208	22157.45
0.65136	0.96803	12109.21	11775.33	1.16187	0.00544	1.16187	14287.92	16565.13
0.544	0.95054	1250.338	1191.169	-1.24803	0.00798	0.80126	1072.772	855.8215
0.41614	1.05407	3338.711	3528.479	1.03426	0.46777	1.03426	5636.537	5833.933
0.08802	1.15836	2200.748	2553.575	-1.48971	0.00017	0.67127	3035.053	2009.611
0.75499	0.92909	144.3863	135.0606	-1.02854	0.86016	0.97225	210.2793	204.3513
0.54719	1.04018	1605.56	1677.212	-1.15794	0.00246	0.8636	1780.089	1537.3
0.00002	0.81688	75386.2	61601.87	1.26982	0.00013	1.26982	77160.7	98127.17
0.00347	0.74077	3162.238	2360.281	-1.18388	0.07056	0.84468	3610.828	3019.372
0.20023	1.19871	192.0508	230.1625	-1.08483	0.70046	0.9218	184.2354	169.195
0.65895	1.14389	136.4788	151.5804	1.38702	0.03787	1.38702	244.8745	341.9622
0.47808	1.06773	1509.761	1612.78	-1.30901	8.34E-06	0.76393	1663.709	1272.599
0.24189	1.08951	5510.646	5998.893	-1.16701	0.0152	0.85689	5699.496	4883.619
0.60824	1.04273	1431.248	1497.36	1.05246	0.48146	1.05246	1231.836	1296.294
0.29133	1.05498	1925.01	2025.879	1.05628	0.32647	1.05628	2039.341	2152.281
0.00299	0.79358	4796.936	3795.037	1.21408	0.07326	1.21408	3829.799	4671.867

0.04779	1.27238	945.8638	1219.701	-2.00032	3.46E-07	0.49992	942.7085	466.4969
2.06E-10	0.61588	11345.12	6970.398	1.3076	0.00302	1.3076	9782.19	12919.44
0.19117	1.11051	611.739	677.3069	1.12549	0.06983	1.12549	682.4804	768.6625
0.70626	1.02492	742.7559	762.6394	1.20457	0.06687	1.20457	680.9584	817.1716
0.73231	1.0357	377.8468	392.0117	2.22976	2.98E-17	2.22976	435.1653	968.1704
0.05133	0.91446	3181.322	2910.46	-1.51509	5.32E-14	0.66003	2632.018	1732.937
0.44516	0.9609	1549.464	1486.692	-1.02765	0.56078	0.97309	1614.573	1571.622
0.67185	0.93651	271.8855	252.5266	1.19425	0.23695	1.19425	209.0839	250.0333
0.00028	0.57375	7025.952	3915.791	1.11465	0.36206	1.11465	4751.484	5320.401
0.25056	1.08405	787.7502	851.501	-1.02993	0.6797	0.97094	798.2041	773.9297
0.05368	0.65555	395.9739	250.1848	1.36702	0.08088	1.36702	267.0079	369.0589
0.7447	1.03428	327.983	339.9132	-1.19941	0.24924	0.83375	499.1586	408.6025
0.28086	1.06372	3400.752	3616.912	1.0151	0.77937	1.0151	3575.499	3634.554
0.08964	0.83464	4456.851	3726.046	1.05938	0.53439	1.05938	4005.574	4234.228
0.02035	0.8859	1158.027	1025.617	-1.00899	0.88514	0.99109	1024.911	1015.968
0.9866	1.01055	62.01186	62.73536	-1.09294	0.87341	0.91496	97.35384	85.94152
0.34857	0.93588	5550.594	5238.618	-1.07699	0.20713	0.92851	5051.556	4670.217
0.76507	0.96656	319.3913	309.4275	-1.08012	0.65089	0.92582	275.4902	253.2564
0.60927	1.08179	354.7515	379.9316	1.09322	0.47178	1.09322	407.3234	445.6033
0.98375	1.01004	65.14727	65.64047	1.0924	0.87984	1.0924	52.20367	57.20412
0.3683	0.90745	667.1158	609.5314	-1.45081	0.00001	0.68927	745.832	512.7629
0.69416	1.08358	231.2304	246.3402	1.47041	0.00676	1.47041	242.9182	358.6752
0.67929	1.03153	1183.303	1218.375	-1.1194	0.12429	0.89334	959.9276	859.136
0.22038	1.05724	4255.562	4494.736	-1.20909	0.00052	0.82707	4607.116	3794.323
0.94687	1.05641	46.57384	50.75714	1.23703	0.66136	1.23703	63.1572	78.05261
0.99979	1.00003	288.3992	289.6986	-1.24921	0.29334	0.80051	230.0987	186.1653
0.92652	0.98584	6966.66	6808.37	1.5606	0.00037	1.5606	6300.551	9900.738
0.12712	0.80207	522.4303	413.0104	2.22437	1.59E-18	2.22437	429.7204	958.857
0.7738	0.90857	136.8009	129.1067	1.01438	0.9739	1.01438	141.9645	136.4004
0.71257	1.05901	250.4146	264.0114	1.13839	0.31107	1.13839	258.4598	294.1673
0.05098	0.74341	4724.354	3482.772	2.24608	1.82E-15	2.24608	3925.682	8836.85
0.00307	0.78552	4171.033	3252.209	-1.02862	0.66604	0.97218	4136.201	4015.853
0.56519	1.052	2483.475	2611.121	1.09366	0.14647	1.09366	2298.954	2522.796
0.661	1.11505	114.3501	127.6981	1.49858	0.05962	1.49858	147.0004	220.4693
0.68287	0.97729	1467.545	1436.841	-1.03163	0.57305	0.96934	1438.928	1393.198
0.14261	1.08141	2726.085	2946.292	-1.04511	0.44584	0.95684	2502.916	2388.324
0.93246	0.98811	591.7639	592.5968	-2.67597	2.43E-15	0.3737	752.9132	279.6596
0.61832	1.02394	2774.391	2844.235	-1.05692	0.39065	0.94614	3118.625	2949.496
0.00079	1.42753	322.5458	458.6804	1.70365	0.00199	1.70365	301.641	508.209
0.68135	0.9507	5381.694	5158.31	1.55821	2.22E-10	1.55821	4763.374	7420.936
0.58976	1.07383	466.7961	507.54	-1.80772	7.92E-07	0.55318	492.2747	271.3476
0.81001	1.04098	338.7475	350.4409	1.14199	0.3637	1.14199	257.1537	292.558
0.02704	0.83259	10210.92	8523.439	-1.06377	0.35081	0.94005	9228.469	8679.766
0.36785	1.0541	1277.944	1346.71	1.1734	0.03409	1.1734	1226.504	1436.529
0.20163	0.67552	146.5426	97.83022	1.22193	0.54745	1.22193	118.3196	142.0247
0.01993	0.90179	6363.47	5740.771	1.03054	0.54519	1.03054	6022.553	6206.68
0.32532	1.05612	754.641	796.6408	1.04218	0.48405	1.04218	898.6923	937.1143
0.74041	0.95645	610.3118	576.9402	-1.00919	0.91468	0.99089	642.0566	637.3326
0.34482	1.04289	2655.973	2769.277	-1.21587	0.00119	0.82246	2495.496	2044.505
0.84009	0.80216	38.32977	32.88026	-1.37991	0.56803	0.72468	75.65693	54.77135
0.57013	0.94312	837.2752	783.9448	1.44347	0.00018	1.44347	784.8127	1137.421
9.10E-15	0.40099	16537.21	6586.574	-2.00427	0.00009	0.49893	17894.15	8605.917

0.57915	0.95325	654.4996	621.9155	1.03525	0.70552	1.03525	688.7933	715.2482
0.94285	0.9945	1901.834	1903.039	-1.05165	0.47107	0.95089	1917.415	1824.279
0.52978	0.93959	2901.102	2740.905	1.04827	0.65273	1.04827	2530.014	2660.263
0.63664	1.03177	2527.497	2618.375	-1.13916	0.04195	0.87784	2127.271	1861.922
0.9366	0.99294	468.9561	466.5034	-1.56115	7.73E-06	0.64055	487.5441	312.2338
0.46439	0.95508	1466.642	1397.896	1.21837	0.00044	1.21837	1301.052	1586.279
0.02483	0.75895	571.1668	429.1354	1.02879	0.77853	1.02879	465.9032	480.8554
0.77618	0.93112	1557.235	1420.829	-1.98832	2.02E-30	0.50294	1456.497	732.4591
0.00017	0.84086	1958.757	1646.928	1.10823	0.03307	1.10823	1708.75	1892.987
0.46108	1.04959	865.0133	910.0629	-1.06719	0.36639	0.93704	871.3624	814.8779
0.70642	1.03657	880.2908	908.4083	1.09274	0.09914	1.09274	868.0941	948.6641
0.00185	0.80919	1098.767	885.9875	-1.18977	0.00244	0.8405	945.5543	795.0187
0.19029	1.08762	982.2086	1070.12	1.00883	0.90924	1.00883	928.4477	934.4591
0.91021	1.01215	356.6476	361.0512	-1.21671	0.12552	0.82189	313.0728	257.2397
0.1342	0.57197	162.3637	89.91958	-1.32509	0.53435	0.75467	110.9888	83.77864
0.34147	0.92351	1972.273	1805.758	1.2161	0.01097	1.2161	2258.645	2754.374
0.17977	1.11401	627.6472	696.8306	1.02659	0.66452	1.02659	743.5772	763.3655
0.40037	0.89095	331.1138	292.5417	1.13802	0.36124	1.13802	262.9597	298.2102
0.2696	1.05043	2131.919	2239.776	1.05646	0.33322	1.05646	2061.25	2175.288
0.84646	1.02039	1638.831	1675.08	-1.20982	0.00723	0.82657	2835.826	2350.077
0.08794	1.09447	971.6	1063.837	-1.02487	0.68791	0.97574	1008.114	982.4476
0.35051	1.05611	3188.99	3363.708	1.01479	0.80134	1.01479	3675.246	3732.813
0.40843	1.16707	188.1337	217.8561	1.34483	0.00216	1.34483	336.7631	453.3383
0.28018	0.87778	8656.512	7616.046	1.2797	0.00001	1.2797	10545.89	13421.62
0.21327	0.68787	122.5229	84.38072	-1.22155	0.60341	0.81863	142.5695	114.5579
0.27539	0.80585	573.2269	447.6907	1.36247	0.03244	1.36247	439.2107	604.6049
0.74603	1.05448	1922.538	2037.376	1.15834	0.13985	1.15834	1728.923	2005.55
0.018	0.7934	4356.67	3455.917	3.12499	0	3.12499	3898.839	12213.01
0.14197	1.1304	535.4292	607.3406	1.5432	1.49E-12	1.5432	1113.608	1721.382
0.85265	0.9774	344.6993	336.9475	1.04673	0.76894	1.04673	302.9161	316.6616
0.91974	0.9793	10319.74	9981.467	-2.30258	6.56E-14	0.4343	11641.56	5030.453
0.69658	0.92837	18866.26	17713.93	1.62744	0.00397	1.62744	16359.22	27285.3
0.89413	1.01279	499.596	504.8416	1.0326	0.75618	1.0326	441.8052	454.8712
0.41335	0.87824	323.3425	280.0252	1.19615	0.13695	1.19615	302.1357	362.2828
0.17579	0.88411	18060.37	16002.67	1.47262	0.00015	1.47262	18426.1	27238.27
0.09351	1.08931	1642.978	1786.956	-1.01824	0.74846	0.98209	3388.004	3349.115
0.19561	1.16771	287.5388	334.5734	1.23128	0.26287	1.23128	259.5926	318.0576
0.04619	1.10147	5198.471	5738.578	1.10191	0.03056	1.10191	5447.013	6003.513
0.30159	0.92508	5115.642	4734.647	1.39835	0.00009	1.39835	4719.674	6603.737
0.80102	0.98701	35791.43	35347.7	-1.25994	0.00004	0.79369	37906.2	30065.05
0.89043	1.01131	2583.822	2612.206	1.01368	0.78915	1.01368	2414.352	2447.327
0.78255	1.01408	1165.438	1180.938	-1.0221	0.78516	0.97838	1194.103	1164.597
0.65875	1.16293	98.28139	112.8509	1.12907	0.73394	1.12907	107.052	120.6546
0.42722	0.73558	141.7832	110.9983	-1.47963	0.56708	0.67584	87.65364	58.14604
0.97666	1.00361	1807.085	1832.86	2.4904	0	2.4904	1473.028	3672.748
0.31721	1.0854	725.4747	790.5026	-1.01904	0.78863	0.98132	780.3603	764.7398
0.99173	0.99554	96.72186	97.88806	1.1052	0.73377	1.1052	108.9138	120.6726
0.06549	0.82937	610.2606	502.9911	-1.01834	0.85043	0.98199	544.1722	532.6606
0.00003	0.8092	1398.925	1132.516	-1.12294	0.07683	0.89052	1121.05	999.4963
0.12609	1.12912	619.7376	699.7289	1.09887	0.21734	1.09887	821.8163	900.8341
0.00185	0.77452	1812.716	1404.662	1.18993	0.02301	1.18993	1419.948	1685.371
0.60746	1.104	249.9045	269.1653	-1.00226	0.98455	0.99774	358.7654	358.9702

0.74306	1.0276	3460.394	3573.603	-1.14313	0.01142	0.87479	3663.687	3198.921
0.25925	1.09093	2206.298	2404.015	1.01704	0.80807	1.01704	1996.04	2036.209
0.56876	0.94494	343.2027	324.2092	1.24207	0.28832	1.24207	289.7986	356.0331
0.99345	1.00425	60.4407	61.02902	1.04921	0.94718	1.04921	54.66858	57.10532
0.34771	1.09532	478.766	523.3555	-1.27406	0.00046	0.78489	807.6946	634.6087
0.06014	0.87802	1287.988	1127.381	-1.20212	0.00095	0.83187	1344.996	1119.6
0.00046	0.78001	5354.147	4173.03	1.09352	0.09671	1.09352	5091.728	5562.148
0.17517	1.12462	3294.253	3708.522	-1.68212	3.62E-15	0.59449	3143.527	1868.8
0.70155	1.08017	230.9081	245.4246	1.09607	0.57982	1.09607	206.7459	226.5924
0.29934	0.91511	804.9251	738.3402	1.48812	8.62E-06	1.48812	704.8073	1046.897
0.8912	1.00804	962.4913	969.5595	-1.07544	0.24885	0.92985	797.438	741.0144
0.81954	1.01161	1601.813	1622.417	-1.17071	0.00715	0.85418	1766.016	1506.032
0.1097	0.87475	9448.514	8251.742	-1.49957	1.66E-07	0.66686	8405.682	5589.785
0.05354	0.85701	5325.711	4544.529	1.30291	0.00255	1.30291	4749.044	6211.857
0.08335	1.12617	2083.814	2351.919	3.47571	0	3.47571	2075.134	7214.467
0.72975	1.05739	225.2248	236.4977	2.19253	5.71E-13	2.19253	205.6685	451.0119
0.84589	1.01663	3036.04	3090.001	1.02702	0.80541	1.02702	2939.917	3020.917
0.7806	0.9775	19857.9	19444.79	1.11515	0.12282	1.11515	19315.5	21530.89
0.3219	0.79081	2365.258	1742.07	-2.50748	4.03E-16	0.39881	2181.319	868.506
0.96784	1.00512	487.0219	492.0433	-1.24293	0.02802	0.80455	426.2898	343.3459
0.70498	1.03165	1107.195	1149.362	-1.05861	0.515	0.94464	1194.629	1122.745
8.80E-13	0.59767	2241.531	1334.868	-1.09811	0.04965	0.91066	1557.734	1418.935
0.00286	1.19711	1092.626	1309.985	-1.17465	0.12032	0.85131	1509.643	1271.994
0.16801	1.06584	1816.729	1936.272	-1.05401	0.24073	0.94876	2601.004	2468.492
0.30166	0.88756	1793.203	1586.478	1.08901	0.39317	1.08901	1576.811	1719.21
0.41556	1.05876	2755.111	2927.745	-1.36775	4.52E-09	0.73113	3709.767	2714.992
1.99E-06	0.80167	3810.105	3053.878	1.44784	7.04E-07	1.44784	3491.927	5055.6
4.63E-09	0.69669	3446.775	2417.194	-1.36541	0.01856	0.73238	2023.99	1472.214
0.6881	0.9514	437.9132	420.8828	-1.21712	0.08472	0.82161	386.2961	318.1203
0.6966	0.80523	67.16861	54.15823	1.29319	0.67882	1.29319	54.19273	70.5084
0.80358	0.9716	347.9898	337.7875	1.26029	0.0405	1.26029	419.9291	526.4492
0.1426	0.87888	7328.013	6485.525	1.13684	0.06035	1.13684	6583.987	7491.876
0.38593	0.91403	907.8657	826.5969	-1.05333	0.52694	0.94937	725.402	690.3966
0.12113	1.11531	1512.721	1690.354	-1.05996	0.32611	0.94343	1494.062	1411.66
8.66E-10	0.63412	1557.221	984.5128	1.01549	0.7884	1.01549	1255.013	1272.562
0.53955	0.90994	6442.692	5811.457	-1.23333	0.03187	0.81081	5607.477	4545.061
0.03076	1.15373	1130.345	1305.838	-1.08014	0.37587	0.9258	963.476	894.1345
0.26845	0.82772	397.4526	321.4124	1.3344	0.00432	1.3344	326.9743	435.7506
0.27542	0.9437	1255.662	1185.151	-1.16177	0.00838	0.86075	2077.338	1791.728
0.01902	0.86605	1320.185	1142.777	1.15187	0.00264	1.15187	1227.961	1414.47
0.15414	0.78495	418.2629	323.0465	1.10654	0.29487	1.10654	359.3373	397.9366
0.00051	0.56611	817.7809	454.0174	-1.10626	0.33743	0.90395	794.4329	721.4621
0.60169	0.90578	9602.322	8388.417	-1.79839	1.19E-16	0.55605	9676.774	5369.222
0.34528	0.58993	72.03888	42.00584	1.37203	0.71666	1.37203	38.3485	53.03758
0.38651	1.08876	440.7291	477.6984	1.40851	0.00004	1.40851	491.4366	690.9534
0.17308	1.10844	4471.639	4942.775	1.75368	2.78E-15	1.75368	4034.787	7097.143
0.08645	0.86788	720.9977	627.9226	-1.53181	0.00017	0.65282	724.4504	474.7158
0.33931	1.0668	5421.04	5819.345	-1.08434	0.14352	0.92222	5542.11	5117.977
0.68859	1.18219	88.86592	103.9993	1.14687	0.47494	1.14687	234.7243	266.9753
0.53381	0.95993	8992.014	8592.485	-1.12728	0.14008	0.88709	8668.557	7687.219
0.10229	1.11948	2208.408	2464.519	1.13265	0.01835	1.13265	2565.954	2908.834
0.35046	1.06811	1228.627	1317.899	1.04409	0.59199	1.04409	1394.256	1451.101

0.33984	1.06557	1938.212	2063.492	1.14438	0.0059	1.14438	2100.654	2404.636
0.12511	1.1474	3668.522	4221.687	1.80518	9.77E-38	1.80518	3270.536	5906.069
0.18581	0.78196	6307.182	5035.769	-1.30262	1.40E-08	0.76768	3558.622	2733.717
0.96879	0.98763	125.3861	123.4501	-1.40877	0.12094	0.70984	210.3247	149.1232
0.96802	0.99353	336.9005	337.6121	1.22309	0.07498	1.22309	342.4338	420.0687
0.26255	1.08281	3623.71	3938.796	-1.08561	0.23066	0.92114	3814.027	3513.508
0.49211	1.16178	162.7791	186.7665	1.64828	0.01871	1.64828	162.1672	264.9457
0.00261	1.2217	4729.269	5777.655	-1.28345	0.03558	0.77915	7308.66	5641.966
0.00065	0.79873	3446.018	2748.677	1.02329	0.71513	1.02329	2900.872	2968.034
0.99634	0.99978	1148.368	1148.027	-1.0716	0.41221	0.93318	977.2867	914.4681
0.69782	1.04167	473.3971	491.1357	2.69527	0	2.69527	522.2739	1408.389
0.77396	1.03504	345.2376	356.2015	1.07345	0.5367	1.07345	353.3428	380.4143
0.40128	0.9494	13785.52	13155.08	3.18664	1.09E-21	3.18664	15368.05	49339.13
0.00421	0.78378	4317.607	3381.253	-1.11954	0.00799	0.89323	3842.459	3431.937
0.98998	1.00107	395.0595	395.5525	-1.16392	0.26464	0.85916	374.8311	320.0331
0.27921	1.06406	737.5372	785.2711	1.17263	0.00612	1.17263	827.0341	969.3414
0.03039	0.79269	553.5773	435.8913	-1.00708	0.94398	0.99297	455.8055	451.947
0.63382	1.02518	3374.86	3449.024	-1.02555	0.57291	0.97509	3362.029	3275.527
0.01447	0.71972	2305.607	1622.224	-1.30833	0.02804	0.76433	2004.081	1529.639
0.22772	0.80851	295.8771	236.1895	1.06264	0.69387	1.06264	274.3497	293.3545
0.18169	0.87058	400.8839	350.2737	1.04819	0.69204	1.04819	361.5566	378.0727
0.68458	1.0226	1210.795	1237.732	1.0339	0.56997	1.0339	1061.294	1096.919
0.17024	1.16877	2394.132	2775.341	-1.93451	2.51E-08	0.51693	3144.815	1594.075
0.5856	0.91545	226.6984	208.7336	-1.01416	0.93748	0.98604	201.1293	198.2767
0.00004	0.63988	17144.23	10877.1	1.18363	0.06816	1.18363	13696.29	16228.35
0.08499	1.07639	3902.498	4199.457	1.0089	0.85048	1.0089	4472.558	4509.666
0.19508	0.93397	886.3337	827.658	-1.09836	0.31358	0.91045	870.4034	789.9446
0.00401	0.63076	760.6021	470.3549	1.02963	0.77822	1.02963	531.4199	548.3785
0.68606	1.03157	2454.948	2531.738	1.08227	0.09378	1.08227	2471.321	2674.896
2.41E-08	0.67049	3404.025	2283.118	-1.2295	0.01998	0.81334	2887.105	2353.422
0.17308	0.9389	7091.788	6654.938	-1.41198	6.40E-12	0.70822	6242.578	4418.206
0.70914	1.06138	313.5329	338.5331	-2.17867	0.00126	0.45899	319.3022	149.1457
0.6589	0.93942	316.1975	298.8587	-1.27381	0.01544	0.78505	623.4204	490.842
0.03269	0.82188	3408.973	2816.504	1.17761	0.00037	1.17761	3090.93	3638.359
0.84303	0.93393	115.574	107.134	1.63008	0.242	1.63008	68.39935	111.35
0.87136	0.94328	99.14853	94.48102	1.25652	0.52278	1.25652	102.0329	126.3638
0.37869	1.05473	1268.356	1336.808	-1.11396	0.03977	0.8977	1055.767	947.8652
0.94099	0.99217	308.8519	306.6691	1.01465	0.90206	1.01465	280.6329	284.8359
0.43601	0.93361	1076.829	999.8848	1.24263	0.00326	1.24263	1037.487	1292.811
0.80279	1.01387	1874.13	1897.057	-1.03063	0.64747	0.97028	1917.545	1864.141
0.60573	0.84062	93.78994	78.58116	1.04427	0.90697	1.04427	96.26468	100.468
0.27714	1.10849	2205.655	2443.719	2.32247	0	2.32247	2550.376	5923.75
0.01202	0.70679	310.7921	220.3619	1.28618	0.27814	1.28618	242.9944	304.7112
0.09582	0.83381	443.7683	367.9617	1.35195	0.00256	1.35195	364.3387	493.6349
0.99451	1.00301	88.73582	91.7294	-1.0208	0.92685	0.97962	169.0697	164.7686
0.09465	0.92934	2203.594	2047.788	1.0747	0.37514	1.0747	1774.324	1904.165
0.02525	1.16329	1441.793	1685.084	1.21915	0.01953	1.21915	1443.776	1749.625
0.24801	0.85992	407.0043	353.0903	1.53032	0.00854	1.53032	240.4949	364.7127
0.04329	0.8653	32085.52	27825.88	1.27676	5.17E-08	1.27676	32740.41	41793.98
0.79936	1.01871	1091.257	1108.054	-1.12487	0.0337	0.88899	1160.028	1032.037
0.07253	1.08739	4233.643	4608.211	-1.01096	0.83818	0.98916	4738.785	4680.988
0.00004	0.63295	6882.522	4330.18	-1.1737	0.01518	0.85201	5597.008	4772.86

0.58728	1.06036	452.0812	480.7014	-1.11528	0.38803	0.89664	420.4835	375.3466
0.29879	0.81406	304.0079	243.9471	-1.25714	0.32485	0.79546	219.3725	176.9432
0.8814	0.99296	3053.461	3027.877	-1.11234	0.03402	0.89901	3096.921	2780.588
0.05078	1.08998	1510.596	1646.335	-1.01513	0.83064	0.9851	1649.952	1624.593
1	1	18.43219	24.49979	1	1	1	17.73523	31.40726
0.7609	1.33658	29.48838	39.44212	1.13827	0.9229	1.13827	28.21264	34.8996
3.21E-16	0.59442	1583.506	941.3653	1.14895	0.02608	1.14895	1389.98	1593.305
0.96858	1.03172	43.64114	46.59885	-1.00157	0.99918	0.99844	25.93822	30.0872
0.00053	0.71672	4731.695	3390.98	-3.12356	9.88E-29	0.32015	4339.167	1378.849
0.04429	0.77289	639.6653	488.705	-1.06916	0.47858	0.93531	538.707	504.8294
5.68E-16	0.67093	1672.387	1122.31	-1.26995	0.0029	0.78743	1446.992	1135.291
0.13294	0.74053	766.9695	552.6657	-1.16381	0.36676	0.85924	760.9681	660.356
0.0022	1.13381	9255.027	10493.63	-1.28902	0.00258	0.77579	10781.59	8327.752
0.09371	0.76428	994.3914	747.9553	1.09465	0.42463	1.09465	797.631	878.9694
0.00411	0.87751	1816.928	1594.468	1.19925	0.0341	1.19925	1746.364	2091.16
0.97454	0.9956	259.3568	257.2062	-1.08852	0.31969	0.91868	550.7756	505.8027
1.33E-09	0.74416	39849.25	29640.55	-1.17188	0.05015	0.85333	36802.09	31371.73
0.64943	1.04022	597.573	619.18	-1.06328	0.49609	0.94048	552.4973	518.3641
0.00292	0.63196	1917.269	1186.37	2.78482	4.27E-12	2.78482	1484.985	4248.855
0.9927	1.00048	1585.96	1589.719	-1.01615	0.79359	0.98411	1530.81	1502.749
0.40537	1.0719	616.0721	657.9702	1.02056	0.76914	1.02056	690.7346	704.362
0.157	0.87778	513.6727	452.2796	-1.73306	5.93E-07	0.57701	635.8569	368.5532
0.56681	0.89551	188.7535	168.3695	1.46137	0.10247	1.46137	137.5699	200.893
0.02775	1.13152	766.4435	867.6789	-1.28788	0.00003	0.77647	1211.173	940.2721
0.00134	0.79872	882.0068	703.3218	-1.12866	0.11959	0.886	865.3012	768.1509
0.78608	0.97036	546.7733	533.8757	-1.18896	0.08807	0.84107	483.0231	405.1409
0.98221	0.98618	63.15417	65.33789	7.37337	9.25E-16	7.37337	47.11757	348.7554
0.94211	1.00654	376.208	378.1605	1.12409	0.24786	1.12409	366.6614	411.8776
2.04E-19	0.45876	2290.997	1043.429	-1.09226	0.21302	0.91553	1416.74	1293.552
0.09736	0.77665	1276.361	1016.354	-1.30881	0.20548	0.76405	528.4362	405.7044
0.67163	1.0951	179.2528	193.4827	1.1607	0.47961	1.1607	154.1291	178.5227
0.93434	1.01733	218.7454	227.1385	-1.08501	0.56673	0.92165	359.1083	328.9833
0.8199	1.01637	1244.675	1263.719	1.4138	9.11E-12	1.4138	1144.802	1618.352
0.73893	1.04853	342.8804	356.587	1.06209	0.60385	1.06209	302.6858	321.1149
0.53011	1.06403	2381.502	2548.86	-1.32987	0.00075	0.75195	2987.99	2235.809
0.9917	1.0006	685.9274	686.3033	1.46572	1.01E-06	1.46572	611.0284	897.314
0.00144	0.65164	7925.167	5150.486	1.00469	0.96897	1.00469	6134.707	6200.578
0.90707	1.01955	258.1177	260.5112	1.28341	0.16788	1.28341	258.2097	332.0056
0.58083	0.90283	2488.332	2290.719	-1.55478	1.77E-12	0.64318	2008.393	1291.652
1	1	17.85328	24.48754	1.12911	0.93107	1.12911	21.37167	34.86354
0.05624	0.82442	4446.981	3700.304	1.31243	0.00424	1.31243	5285.369	6868.002
0.22364	1.07144	924.6417	989.4786	-1.01828	0.72929	0.98204	985.3756	967.9029
0.01497	1.17304	918.8311	1078.41	-1.10669	0.03368	0.9036	1342.312	1212.981
0.10083	0.84793	1460.319	1239.756	1.4356	0.0062	1.4356	1327.782	1910.366
0.64696	0.91046	575.9723	510.0154	1.70295	0.00016	1.70295	480.7674	826.285
0.00003	0.80168	7295.765	5838.824	1.17754	0.00066	1.17754	6211.185	7320.001
0.77674	0.97078	1134.029	1107.391	-1.12979	0.0416	0.88512	1057.792	935.8053
0.49282	1.06046	411.8879	437.3778	-1.25129	0.07296	0.79918	404.5118	324.6022
0.09208	0.85111	714.9459	604.9955	1.11675	0.16268	1.11675	595.2961	666.0167
0.59645	0.92268	3371.236	3134.069	-18.50524	0	0.05404	2399.933	129.7593
0.08677	0.78025	381.096	294.178	1.26744	0.24661	1.26744	250.5727	317.3144
0.80218	1.02638	374.475	382.938	1.13421	0.13818	1.13421	610.1195	693.2035

0.0888	0.83221	1623.007	1339.102	1.37562	0.00202	1.37562	1546.604	2141.564
0.36395	1.03882	5636.778	5853.851	1.0806	0.17245	1.0806	5473.456	5889.197
0.00538	1.14669	2244.318	2573.524	-1.49893	3.96E-09	0.66714	1838.805	1225.713
0.77807	1.05172	259.583	277.2909	-1.336	0.2343	0.7485	222.8801	169.5414
0.49744	0.88979	10272.69	8851.512	-3.22109	0	0.31045	11126.14	3440.749
0.29011	1.3649	141.0642	184.8821	1.58516	0.01819	1.58516	150.8772	240.1533
0.21469	0.9144	3255.761	2976.517	1.31486	2.63E-08	1.31486	2922.596	3845.596
0.10926	0.83956	4564.512	3883.044	2.09664	1.35E-34	2.09664	3834.752	8028.958
0.79978	0.98414	2628.078	2593.019	-1.01907	0.83179	0.98129	2386.167	2303.339
0.68612	1.20298	94.08557	105.2893	-1.03807	0.88563	0.96333	132.9428	128.2787
0.04785	0.80148	448.2977	357.2723	-1.13664	0.32308	0.87978	332.0788	293.0031
0.6302	1.12286	148.5652	169.0959	-1.24026	0.36483	0.80628	180.0907	144.7422
0.97692	0.98395	84.91803	77.69514	1.64087	0.25496	1.64087	68.7077	114.2572
0.59718	0.94805	2168.429	2050.624	1.0784	0.39092	1.0784	1974.54	2137.843
0.5026	1.07166	783.3268	835.7971	1.74217	2.87E-13	1.74217	771.877	1347.198
0.12293	0.89575	816.1349	732.3815	1.11217	0.15363	1.11217	720.8254	800.5416
0.34839	0.90661	891.6183	802.9139	1.07532	0.38694	1.07532	799.479	862.1287
0.83342	1.0101	3223.354	3262.084	-1.05498	0.27491	0.94789	3238.705	3075.875
0.85616	0.99084	3779.416	3746.364	-1.07507	0.12488	0.93017	3677.845	3421.149
0.95713	1.0046	1134.785	1135.289	1.08642	0.14716	1.08642	1157.558	1255.896
0.69807	0.91834	141.9175	130.1903	-1.01158	0.96818	0.98856	118.0907	116.3653
0.73941	1.07174	216.6178	231.4742	1.35174	0.03025	1.35174	237.3874	321.7554
0.66804	1.02495	3445.271	3539.79	-1.04474	0.418	0.95718	3787.563	3627.947
0.00002	0.56556	1709.41	950.4093	-1.1079	0.14495	0.90261	1173.143	1060.601
6.40E-07	0.74752	925.3665	691.5861	1.04776	0.55702	1.04776	755.1039	789.4525
0.87324	1.01715	312.6502	318.1517	-1.02089	0.88078	0.97954	293.9277	287.0539
6.26E-10	0.73962	1776.686	1314.356	1.00422	0.9412	1.00422	1174.75	1180.246
0.63611	1.03663	2247.514	2281.311	-1.10605	0.04629	0.90412	2646.188	2396.271
0.21301	0.8656	3615.321	3142.715	1.06623	0.53684	1.06623	3139.577	3356.122
0.58099	0.96457	4104.83	3979.553	1.04345	0.33272	1.04345	4888.147	5101.218
0.35165	0.90676	1276.853	1160.173	1.40328	0.00001	1.40328	1351.928	1894.309
0.24445	1.12285	301.1325	337.9876	1.11068	0.32564	1.11068	398.9893	441.776
0.12349	1.06815	2925.165	3123.603	-1.00121	0.98315	0.99879	3294.905	3298.831
0.10612	0.75232	699.0776	514.3387	1.35507	0.014	1.35507	531.1867	725.0559
0.01513	0.73302	1143.726	831.6135	1.02565	0.67704	1.02565	944.1442	968.895
0.64504	1.02977	1928.15	1992.123	-1.17528	0.00029	0.85086	1840.344	1565.943
0.70332	0.96177	362.6244	349.7714	1.11271	0.39844	1.11271	326.6657	363.3666
0.9403	1.01209	900.6912	917.9876	-1.4238	0.00004	0.70234	1175.447	827.9572
0.27828	0.77962	269.702	203.2826	1.12741	0.54952	1.12741	197.1838	220.6043
0.63189	1.09917	1725.025	1871.347	-2.24499	1.45E-08	0.44544	1816.099	808.9562
0.71757	0.93571	601.9384	557.0234	-1.13895	0.12102	0.878	1257.729	1108.868
0.62582	1.06596	347.1805	373.049	1.52075	0.00349	1.52075	279.3027	421.4465
0.05689	0.90942	1285.328	1169.156	-1.08213	0.12915	0.92411	1245.448	1151.169
0.95968	0.9938	7949.256	7994.155	1.66632	1.71E-10	1.66632	6549.598	10957.29
0.22956	1.15714	416.7756	477.8403	1.05066	0.6593	1.05066	414.3123	435.4155
0.00054	0.66474	1808.436	1187.879	1.25039	0.00027	1.25039	1392.863	1745.276
0.56167	1.05722	374.6063	395.864	1.08717	0.78124	1.08717	272.5929	296.3542
0.94396	0.99132	3496.169	3343.865	-1.24114	0.00132	0.80571	4484.226	3609.708
0.65635	1.06716	253.4951	268.9883	-1.07735	0.49106	0.92821	422.0612	390.5801
0.00002	0.78256	7060.454	5523.431	-1.02365	0.68213	0.97689	6845.187	6695.4
1.46E-06	1.25706	2151.439	2701.173	1.49229	0.01971	1.49229	1939.92	2926.892
0.85163	0.96275	170.8344	164.074	-1.34046	0.30816	0.74601	178.1398	130.8254

0.2952	0.9268	4490.977	4159.244	1.21017	0.00126	1.21017	4012.738	4865.513
0.71203	1.08869	133.761	146.1792	1.12277	0.70351	1.12277	101.5454	113.7856
0.01918	1.42674	466.0759	657.0791	3.38234	0	3.38234	397.956	1345.805
0.09008	0.75848	3617.697	2728.645	1.31901	0.06107	1.31901	2945.32	3942.977
0.55119	1.08231	308.5535	333.0971	1.10087	0.36446	1.10087	408.121	450.7231
0.00481	0.71761	1460.323	1039.332	1.09631	0.27972	1.09631	1074.83	1184.344
0.00885	0.75029	828.6462	624.9285	-1.21055	0.02746	0.82607	666.7253	549.361
0.03735	0.86944	2101.712	1833.05	-1.15173	0.11932	0.86826	1757.713	1525.813
0.15138	0.83947	672.7088	559.0787	1.13967	0.12539	1.13967	544.465	621.8838
1.70E-07	0.57096	4042.986	2313.726	-1.71952	1.74E-11	0.58156	3781.404	2181.718
0.08653	0.61173	185.5565	116.1601	-1.3569	0.20758	0.73698	197.3177	144.4656
0.85524	0.99007	886.3856	877.0862	-1.05724	0.49925	0.94586	824.751	777.9879
0.35574	0.88463	633.0185	566.0228	1.13335	0.2308	1.13335	485.1232	547.6279
0.62974	1.06805	251.2226	269.3395	1.02083	0.91737	1.02083	220.0908	224.1785
0.89694	0.9866	1199.298	1187.728	-1.33249	3.58E-08	0.75047	1168.517	877.1234
0.8964	0.99083	1059.805	1054.101	-1.04412	0.53373	0.95775	1218.541	1165.984
0.28468	1.15293	351.7604	401.0454	4.11875	0	4.11875	250.9331	1032.704
1	1	17.02769	25.42853	1	1	1	17.01019	32.30022
0.00006	0.66976	6381.726	4260.027	1.32885	0.00016	1.32885	5126.704	6807.836
0.69367	0.97962	977.7344	957.5964	-1.05731	0.39418	0.94579	864.2642	818.2648
0.96516	0.9978	2648.118	2640.813	2.36042	6.42E-13	2.36042	2728.824	6412.042
5.10E-06	0.59292	4248.125	2505.859	1.24396	0.00001	1.24396	3189.87	3970.85
0.96467	1.00271	1217.338	1219.197	1.07544	0.19907	1.07544	1260.947	1355.272
0.90962	0.99262	2012.151	1996.624	1.01521	0.83	1.01521	2025.525	2058.887
0.00317	0.82737	8660.262	7154.839	1.16618	0.00033	1.16618	7142.691	8329.44
7.15E-06	0.66522	4648.193	3094.353	-1.01258	0.8795	0.98757	4089.147	4032.19
0.98996	0.98874	39.15538	39.44081	1.21616	0.66359	1.21616	69.68349	85.32552
0.84808	1.03914	183.3865	189.5935	1.09038	0.53014	1.09038	239.6486	261.5184
0.42107	1.04188	1139.892	1188.557	1.10674	0.06374	1.10674	1210.403	1339.585
0.20433	0.9283	4792.984	4458.881	-1.06064	0.34509	0.94283	4426.351	4184.667
0.98219	0.99839	714.0113	711.137	-1.1098	0.13505	0.90106	672.6552	606.0578
0.98999	1.00092	1382.273	1376.813	1.72659	2.14E-15	1.72659	1293.396	2235.402
0.92873	0.93737	42.19646	39.65336	1.11995	0.84999	1.11995	50.42443	56.2271
0.48638	1.07645	425.4042	455.9626	1.07234	0.41144	1.07234	454.3423	487.7241
0.65678	1.06562	327.164	345.1453	1.23236	0.08766	1.23236	317.2814	389.5827
0.98337	0.98397	41.21349	39.85126	1.36925	0.74172	1.36925	36.32642	54.3807
0.62132	0.89796	643.2897	590.1612	-1.43922	0.02338	0.69482	419.4374	291.721
1	1	18.49915	23.17137	1	1	1	18.20369	32.06622
0.74391	1.02609	873.8314	894.169	1.0348	0.69165	1.0348	915.2843	950.028
0.44188	0.93135	1068.165	1005.584	-1.27413	0.00734	0.78485	1139.226	895.6376
0.55349	1.03124	4189.518	4295.976	-1.03982	0.34621	0.96171	3621.209	3482.309
5.80E-07	0.67417	1980.637	1332.588	-1.10959	0.08069	0.90124	1781.602	1606.125
0.78673	0.96189	247.6169	238.8556	-1.15124	0.58284	0.86863	189.7242	164.6478
0.97762	0.9974	514.3378	514.0333	-1.09631	0.48761	0.91215	533.352	481.9968
0.16683	0.83582	643.7443	531.809	1.21242	0.0114	1.21242	611.3087	742.225
0.68867	0.9654	1046.869	1000.417	1.15129	0.16872	1.15129	1017.233	1178.754
0.32393	1.10119	971.5927	1079.468	1.96158	6.32E-21	1.96158	934.1777	1831.127
0.44312	1.07984	613.6692	659.2736	1.00997	0.90077	1.00997	693.7289	702.1273
0.88413	1.00828	4671.019	4721.464	-1.11526	0.06181	0.89665	5453.757	4885.611
0.0001	0.76959	1313.622	1011.796	-1.38227	3.71E-06	0.72345	883.0269	639.4448
0.73815	1.4878	24.62811	35.04579	-1.15189	0.89275	0.86814	29.15086	33.66708
0.78294	0.95467	222.4921	210.9853	15.58327	0	15.58327	198.1851	3122.022

0.3852	1.07924	459.4537	497.0485	1.17734	0.0511	1.17734	548.5671	646.1946
0.00105	1.32308	12963.96	17082.29	1.08745	0.45196	1.08745	17095.61	18366.89
0.02997	1.27704	2112.739	2716.816	2.30878	3.89E-30	2.30878	1933.787	4472.703
0.02617	0.85604	1390.913	1190.002	-1.06959	0.45923	0.93494	1323.095	1234.954
0.11898	1.15494	3537.323	4096.718	1.64204	3.82E-15	1.64204	3860.671	6349.031
0.98994	1.00196	217.843	217.2759	-1.13222	0.29712	0.88322	357.3533	316.3747
0.85043	0.96313	170.0865	164.8221	-1.02889	0.91032	0.97192	162.9403	159.829
0.31895	1.06815	825.7096	880.7255	1.01995	0.75649	1.01995	705.8673	720.2672
0.89837	0.83801	28.68061	26.80663	1	1	1	20.45119	31.08113
0.00003	0.82663	2154.287	1781.071	1.08912	0.15714	1.08912	1926.586	2097.536
0.43711	1.06613	1352.237	1434.488	1.30276	0.00124	1.30276	1601.865	2082.498
0.00004	0.51285	3380.59	1694.266	1.50111	0.00017	1.50111	2042.755	3095.296
0.7135	1.16076	86.188	99.55389	1.00172	0.9971	1.00172	86.90147	88.41266
0.51665	0.95563	4234.717	4077.153	1.02076	0.74967	1.02076	4922.975	5019.845
0.45201	1.06994	370.0239	396.3003	1.08564	0.33616	1.08564	398.2091	432.3073
0.01628	1.26235	4685.649	5952.125	1.60806	2.21E-20	1.60806	4030.419	6482.6
0.01595	0.87303	3414.014	2980.183	-1.48017	6.50E-13	0.6756	3365.126	2274.998
0.35579	1.06071	1577.821	1674.563	1.23349	0.00008	1.23349	1429.185	1763.911
0.34847	1.13196	386.6002	432.8377	1.67293	5.82E-08	1.67293	336.0654	561.5714
0.79792	0.97526	1149.305	1118.127	1.59654	2.23E-07	1.59654	1051.474	1688.418
0.002	1.26363	25774.33	32557.45	-1.53832	2.68E-06	0.65006	30460.8	19696.11
0.05103	1.17951	14169.74	16812.26	-1.07411	0.46878	0.931	16804.46	15736.46
0.97339	1.00164	1870.926	1872.043	-1.03314	0.51059	0.96793	1937.57	1875.338
0.44936	0.95058	4013.109	3829.645	1.55226	2.47E-14	1.55226	3591.76	5571.581
0.14466	1.10844	2064.377	2279.622	-1.20436	0.02674	0.83031	2702.268	2238.795
0.20636	1.18125	4940.257	5698.354	-1.56929	4.18E-13	0.63723	8803.993	5577.14
0.00259	0.7599	2621.3	1997.002	1.16532	0.00167	1.16532	2191.532	2553.065
0.8908	0.93155	75.39575	68.49435	1.98278	0.16972	1.98278	52.73884	104.4841
0.60504	1.03944	6970.793	7261.248	-1.12551	0.03247	0.88848	8135.106	7221.438
0.106	0.81316	602.7503	494.8175	1.24982	0.08109	1.24982	491.1132	609.7261
0.96099	1.00221	1490.912	1494.523	1.03027	0.6616	1.03027	1467.767	1509.928
0.11349	0.78856	2171.259	1701.099	1.13528	0.39678	1.13528	1721.133	1979.122
0.36627	1.10611	690.6416	759.8087	1.81529	3.07E-23	1.81529	648.4122	1176.753
0.92489	1.03498	82.45633	84.7952	-1.00047	0.99925	0.99953	75.19809	76.0643
0.33614	0.82178	279.3959	224.1335	1.26218	0.11148	1.26218	222.197	280.6429
0.27383	1.07539	5438.73	5882.872	-1.03007	0.57797	0.97081	5778.939	5607.268
0.96227	1.00516	379.5537	383.3587	1.03743	0.77465	1.03743	334.6885	346.2507
0.05235	1.10767	6743.762	7462.7	1.07758	0.5115	1.07758	6874.67	7408.001
0.98362	1.00184	1749.163	1764.951	-1.03523	0.70724	0.96597	1723.072	1652.537
0.01862	0.77479	1795.643	1385.345	-1.71453	2.82E-09	0.58325	1479.012	864.0616
0.74466	1.06175	200.7074	211.1231	1.29775	0.19966	1.29775	181.4218	237.2575
0.0372	1.16454	2087.298	2428.591	-1.14049	0.00288	0.87681	2323.443	2037.217
0.63241	0.94982	366.0181	346.3323	-1.10182	0.40664	0.90759	359.6306	327.1498
0.96564	0.95646	44.29671	38.70699	1	1	1	19.90291	30.98018
0.00667	1.25815	23676.36	29802.29	-1.92527	1.22E-15	0.51941	28914.22	14951.53
0.04993	0.77176	6250.809	4823.645	1.01306	0.91727	1.01306	5281.488	5369.906
0.40043	1.06492	1346.171	1430.042	3.1178	1.77E-07	3.1178	1502.536	5140.912
0.99344	0.99944	562.3713	561.733	1.03152	0.79266	1.03152	624.1779	645.837
0.22472	1.0955	4493.7	4897.259	-1.05517	0.22279	0.94772	4368.288	4143.076
0.94825	0.9803	149.2929	141.8652	-1.18448	0.46402	0.84426	163.9704	138.8289
0.85986	0.98993	830.0873	820.9968	-1.12164	0.05719	0.89155	897.1869	800.1644
0.25698	0.86554	482.5768	421.6187	-1.86326	0.00001	0.53669	405.3873	218.6085

0.55329	1.03014	1090.956	1123.678	1.121	0.09189	1.121	1166.031	1305.709
0.31754	0.75303	344.0399	275.3535	-2.23309	0.01304	0.44781	256.7743	119.0769
0.99285	1.00124	238.0327	238.4638	-1.08119	0.65279	0.92491	230.0173	212.1829
0.25831	1.0884	6113.577	6625.791	1.04083	0.32286	1.04083	6658.061	6930.112
0.88173	1.01456	4913.417	4990.711	1.32541	0.00037	1.32541	4803.231	6365.144
0.80927	0.9656	248.7205	241.3947	1.00982	0.96265	1.00982	249.8998	256.9363
0.55	0.65105	67.63584	43.40623	-1.18002	0.81408	0.84744	49.26873	41.79432
0.03479	1.10484	5730.007	6331.725	1.01277	0.8326	1.01277	7127.16	7220.92
0.32691	1.06185	4584.058	4881.572	-1.03181	0.54447	0.96917	4794.602	4647.661
0.73699	1.11262	124.4242	134.8669	-1.46139	0.20894	0.68428	212.206	150.7814
0.2355	1.11797	415.527	463.6129	1.05932	0.59808	1.05932	341.7999	361.9833
0.06646	0.71358	553.6481	385.0051	1.1744	0.21602	1.1744	406.1824	480.2662
0.8937	0.89869	50.85145	43.66661	1.00196	0.99799	1.00196	48.77562	49.10897
0.09458	0.8476	7015.59	5980.136	-1.10391	0.09691	0.90587	5654.594	5124.832
0.88134	1.01603	632.7859	638.6686	1.25174	0.00489	1.25174	600.0678	752.5223
0.88036	0.9936	2033.427	2020.373	1.46865	2.04E-06	1.46865	1801.755	2633.625
0.08627	1.10479	2362.104	2614.952	-1.22597	0.00298	0.81568	2847.52	2308.383
0.01314	0.72893	567.1642	408.4228	1.0884	0.37262	1.0884	475.8344	516.8196
0.57834	1.06132	2459.827	2652.275	-1.06264	0.55936	0.94105	2604.763	2445.715
0.01749	0.69257	624.0129	425.2144	-1.38629	0.00916	0.72135	458.9793	332.6978
0.97054	0.99506	400.8377	403.5424	-3.59227	1.97E-08	0.27838	518.9874	142.8117
0.49352	1.06114	2027.599	2160	1.35283	0.00119	1.35283	1999.076	2704.784
0.82347	1.34681	26.62094	35.30879	1	1	1	27.67881	30.82275
0.81185	0.97091	286.7545	277.8966	1.02138	0.86038	1.02138	279.6014	285.5191
0.87225	1.02	935.6454	965.6661	-1.10197	0.03659	0.90746	2087.205	1893.738
0.67823	1.01997	1895.235	1930.261	1.02251	0.661	1.02251	1832.177	1875.123
0.78184	1.29456	25.44714	33.06585	1.42244	0.59085	1.42244	64.22009	95.7792
0.01341	0.83186	11164.74	9311.01	1.22931	0.00943	1.22931	10746.98	13233.99
0.11418	1.07337	2465.365	2648.735	-1.04482	0.51688	0.9571	2588.569	2477.769
0.92976	1.00369	2763.528	2774.001	-1.09835	0.10232	0.91045	2643.827	2401.678
0.26713	0.88595	14690.06	13036.05	1.21381	0.05063	1.21381	14578.96	17712.29
0.90329	0.98348	410.943	399.0605	1.47518	0.00134	1.47518	378.0332	558.9789
0.09818	1.09381	2508.886	2735.221	1.03322	0.51661	1.03322	2421.504	2499.07
0.77568	1.03722	335.0036	344.7737	-1.07539	0.64702	0.92989	272.1625	251.7529
0.47806	1.03642	3898.081	4052.651	-1.06694	0.34271	0.93726	3844.328	3593.886
0.05497	1.187	2779.31	3310.954	1.78063	9.77E-26	1.78063	2628.849	4685.111
0.02112	1.11339	2542.147	2830.316	-1.26753	0.00602	0.78894	3070.363	2430.41
0.02786	0.88421	2597.457	2300.059	1.10368	0.11873	1.10368	2225.653	2452.927
0.02461	1.10818	5285.96	5859.779	1.29745	0.01749	1.29745	4952.877	6337.285
0.31426	0.93141	2422.962	2254.85	-2.16572	2.19E-30	0.46174	2363.174	1091.593
3.35E-13	0.72511	2305.428	1671.742	1.28116	3.69E-06	1.28116	1813.191	2322.488
0.24413	0.77831	273.2448	207.7332	1.35039	0.138	1.35039	242.205	330.83
0.00024	1.21139	8194.99	9895.621	-2.94175	1.60E-18	0.33993	7256.805	2440.696
0.7706	1.02252	862.1596	880.0396	1.01711	0.77392	1.01711	987.3722	1005.12
0.06313	0.77875	966.1382	740.9344	-1.09692	0.31861	0.91165	787.3843	720.3402
0.19317	1.10982	587.9704	654.549	-1.01262	0.87407	0.98754	603.5898	596.95
0.82424	0.92851	145.3915	140.9952	-1.26748	0.18977	0.78897	203.2538	160.3413
0.00007	0.77694	3708.387	2873.832	-1.05944	0.31192	0.9439	3400.897	3212.144
0.08381	1.13533	1332.754	1523.752	-1.01252	0.83252	0.98764	1942.411	1913.91
0.01761	0.58791	285.4064	163.1468	1.05772	0.71802	1.05772	209.1389	221.2244
0.80439	1.02444	689.2695	701.7192	-1.03305	0.68877	0.96801	702.0114	680.8532
0.02413	1.13185	1523.552	1727.001	1.51709	6.64E-09	1.51709	1444.912	2193.855

0.00295	0.76863	619.1483	474.29	-1.233	0.00758	0.81103	561.9779	456.1061
0.00172	1.22788	10147.68	12431.08	-2.10032	2.86E-12	0.47612	13814.04	6438.293
0.07653	1.11714	2664.954	2974.214	-1.14044	0.0305	0.87685	2873.112	2516.722
0.57945	1.09899	183.8347	202.0679	1.76705	0.05169	1.76705	152.4503	260.0964
0.87156	0.99214	1136.179	1129.729	-1.20145	0.00009	0.83232	1308.404	1088.446
0.40974	0.85682	1576.988	1363.854	-1.77662	3.85E-07	0.56287	894.2136	505.2322
0.96774	0.99221	10489.69	10326.78	-2.96771	1.90E-39	0.33696	12276.22	4115.882
0.64868	0.77046	79.33464	58.79016	1.24209	0.67869	1.24209	61.13269	75.29802
0.87533	0.99004	3741.084	3688.92	-1.01821	0.68646	0.98211	3795.085	3730.663
0.97644	1.0022	1265.494	1274.848	-1.05999	0.22075	0.94341	1296.196	1222.965
0.55459	0.85842	208.0393	184.5794	1.12892	0.74485	1.12892	174.5309	184.1317
0.01588	0.86679	2109.326	1826.997	1.1395	0.01056	1.1395	2029.927	2314.122
0.01082	0.73849	363.8287	269.3661	1.32665	0.09044	1.32665	288.9996	381.3454
0.22538	1.1382	6899.952	7841.757	-1.7392	3.78E-16	0.57498	7757.533	4437.881
0.05094	0.87388	1726.898	1513.038	-1.29487	0.00427	0.77228	1576.232	1210.98
0.5807	0.86768	150.0023	130.1432	-1.05341	0.84636	0.9493	123.8722	117.831
0.02831	1.09503	4399.432	4817.84	-1.22563	0.00163	0.81591	4739.799	3855.252
0.96527	1.0021	2195.474	2202.566	-1.04874	0.34832	0.95353	2106.345	2007.755
0.55969	1.0439	3618.318	3796.051	-1.19062	0.02244	0.8399	3655.921	3086.87
0.74955	1.0201	650.7705	664.4338	-1.06129	0.36394	0.94225	674.6651	635.8687
0.42088	1.08897	419.926	455.3012	1.13847	0.09455	1.13847	501.0656	570.8206
0.00251	1.30211	1577.563	2068.075	1.41701	0.00006	1.41701	2216.07	3164.508
0.67612	1.03493	1399.582	1444.495	1.36912	0.00053	1.36912	1297.02	1777.088
0.95942	1.00483	647.9625	654.3804	-1.26984	0.10948	0.7875	587.8582	457.3683
0.1334	1.09561	3321.859	3637.675	-1.18217	0.02126	0.8459	3596.663	3040.65
1	1	19.15332	23.91655	1	1	1	18.56846	31.41561
9.88E-07	0.54551	4246.67	2310.404	-1.04606	0.30901	0.95597	3237.705	3093.894
0.76391	0.87536	78.73595	68.90128	-1.08197	0.90886	0.92424	73.0213	69.12521
0.29471	1.07128	549.1156	588.2681	1.12166	0.12103	1.12166	564.4921	632.8537
0.49319	0.93302	1040.914	968.47	-1.03435	0.70095	0.96679	1325.327	1280.723
0.05757	0.85447	7547.459	6436.206	1.02221	0.81167	1.02221	6480.941	6617.739
0.04162	1.199	831.3358	991.3225	1.33279	0.00011	1.33279	937.0543	1251.061
0.05719	0.70582	468.7961	321.6889	1.04255	0.75543	1.04255	410.6916	430.881
0.78746	0.95303	219.4434	207.2999	1.28289	0.14752	1.28289	171.9412	220.7458
0.7354	1.04539	314.5308	329.0992	-1.06797	0.60614	0.93635	278.8396	260.8864
0.92935	1.00791	7578.677	7679.271	-1.33047	0.00014	0.75161	6823.566	5107.24
0.00002	0.77676	1359.626	1055.814	1.36314	0.00094	1.36314	1108.413	1518.485
0.48039	1.08556	352.061	384.5001	1.27201	0.04601	1.27201	275.5396	350.9309
0.08954	0.77784	3940.172	3024.861	-7.149	5.57E-31	0.13988	3037.089	418.252
0.8167	0.96347	253.3339	245.9344	1.11712	0.60445	1.11712	200.7592	223.7032
0.41809	0.8995	985.189	899.1362	-1.17289	0.02906	0.85259	882.9866	753.9406
0.02136	1.16831	693.9194	812.5066	1.12343	0.03477	1.12343	810.237	910.1606
0.04271	0.71467	1312.061	917.5273	1.35672	0.01686	1.35672	946.2793	1302.256
0.71568	0.97422	1362.549	1333.703	1.01187	0.8978	1.01187	1177.342	1185.962
0.00214	0.81999	844.6414	691.9622	-1.15563	0.00613	0.86533	1491.812	1291.014
0.51351	1.08954	432.5898	477.7224	1.04109	0.69648	1.04109	724.9337	757.9504
0.00067	1.23253	1568.09	1931.455	1.63495	2.09E-25	1.63495	1485.342	2428.684
0.3904	0.96349	5184.703	4996.712	-1.0245	0.58957	0.97609	5062.668	4940.023
0.0249	0.88889	969.728	861.9474	3.95812	0	3.95812	856.4495	3389.234
0.00366	0.65664	276.4912	181.0448	1.41083	0.00542	1.41083	299.1939	421.7006
0.00732	0.64782	3976.357	2548.121	-1.0072	0.95444	0.99285	3030.238	3036.881
0.88101	1.11483	35.25472	39.42183	1.72498	0.60548	1.72498	31.63578	56.28471

0.3851	0.90147	595.4732	531.6332	1.05332	0.61685	1.05332	528.2231	554.8435
0.1681	0.68676	186.5699	125.7741	5.27445	8.03E-17	5.27445	163.4396	877.9591
0.34262	1.06947	587.8323	628.4481	-1.04352	0.37252	0.95829	1351.97	1295.801
0.0932	1.21104	1047.699	1271.281	1.15135	0.0052	1.15135	970.7316	1117.654
0.74478	0.97908	1795.477	1758.653	-1.04471	0.51621	0.9572	1650.353	1580.736
0.23463	1.06544	4567.451	4868.199	1.96026	1.38E-42	1.96026	4340.35	8509.742
0.00032	1.31677	1343.455	1757.448	1.46167	3.07E-14	1.46167	1441.604	2107.511
0.8604	1.01523	761.2911	769.1768	-1.01715	0.77515	0.98314	858.1101	844.1418
0.42711	1.04356	2037.674	2130.96	-1.04159	0.38478	0.96007	2012.424	1933.342
0.14849	0.8209	2660.332	2201.213	1.26966	0.00002	1.26966	2111.017	2676.718
0.07441	1.1107	966.5112	1072.312	1.07278	0.27331	1.07278	993.173	1063.576
0.1691	1.07847	1963.548	2113.624	-1.03399	0.55878	0.96713	2292.963	2223.385
0.99264	1.00058	3954.785	3968.726	1.02377	0.7291	1.02377	3618.858	3704.192
0.9346	1.00945	391.3832	397.7046	-1.59733	0.00638	0.62605	342.8891	216.2959
0.84471	1.03918	417.0217	437.9927	-2.8396	0.00626	0.35216	238.9899	88.66562
0.91063	0.98222	776.3347	768.2891	-1.78445	2.55E-13	0.5604	775.0828	434.8859
0.43797	1.06789	1078.186	1163.69	1.03493	0.63542	1.03493	1210.219	1249.897
0.99303	1.00138	321.9496	328.0317	1.05982	0.52859	1.05982	381.8148	404.7929
0.94806	0.93342	27.2379	25.41051	1.04775	0.9685	1.04775	25.09935	35.38853
0.00042	0.67193	1004.413	669.4979	-1.04153	0.64086	0.96013	761.8012	733.4344
0.06781	0.90128	2126.995	1916.158	1.22077	0.00925	1.22077	2018.667	2464.546
0.85759	1.01663	2808.996	2874.257	-1.2614	1.87E-06	0.79277	3096.208	2451.706
0.0047	1.1386	3717.148	4236.053	1.09726	0.05523	1.09726	3958.469	4336.683
0.82146	0.98329	476.1075	468.6011	-1.04662	0.76018	0.95546	401.9009	380.1915
0.76562	0.93713	218.3039	201.1624	1.79167	0.00107	1.79167	169.6743	305.6176
0.00606	1.15359	16798.97	19410.73	-2.93972	0	0.34017	16019.52	5447.615
0.3348	0.89339	460.8817	408.3568	1.78029	4.52E-09	1.78029	376.9644	669.2148
0.54581	1.05154	2244.239	2360.709	1.3859	0.00465	1.3859	1986.478	2768.163
0.26203	1.15618	796.4385	910.121	1.18039	0.06078	1.18039	885.3314	1049.088
0.01773	0.73849	795.4359	579.9999	-1.15867	0.09167	0.86306	599.9624	518.7864
4.78E-13	0.57568	5517.338	3176.904	-1.15207	0.00071	0.868	3938.826	3419.138
0.24644	1.0917	825.0835	897.2503	1.19777	0.00166	1.19777	899.2545	1076.457
0.22846	1.0709	1645.642	1767.736	-1.01807	0.75102	0.98225	1546.513	1521.337
0.12771	1.07223	2179.404	2335.945	-1.61588	2.28E-16	0.61886	2360.112	1462.959
0.73178	0.97703	790.1796	771.2706	1.35578	0.0033	1.35578	747.0563	1009.113
0.40301	1.05298	1176.696	1238.985	1.14524	0.0269	1.14524	1017.391	1164.708
0.83991	0.98406	2792.769	2751.762	1.08082	0.06369	1.08082	2566.698	2774.093
0.74673	0.84488	75.83972	63.62283	-1.08534	0.78197	0.92137	142.4627	129.8262
0.58422	0.94067	389.8611	364.8097	-1.00626	0.95775	0.99378	357.1444	353.8485
0.34145	1.10758	748.8709	827.4502	-1.06697	0.2462	0.93723	1268.17	1189.944
0.00295	0.5361	3035.048	1573.33	-1.16043	0.3043	0.86175	2076.135	1805.663
0.29762	0.94108	1552.042	1464.418	-1.10468	0.09669	0.90524	1497.342	1353.244
0.12041	0.88036	456.6657	402.424	-1.77297	0.00363	0.56402	373.7118	214.2224
0.94115	1.01041	13353.25	13594.25	-1.47612	8.91E-10	0.67745	13453.19	9105.379
0.48362	1.04819	4232.59	4407.19	1.00698	0.89875	1.00698	4716.262	4751.997
0.62478	0.97421	1384.608	1351.539	-1.15651	0.0104	0.86467	1402.044	1212.378
0.00023	0.78673	10007.54	7887.505	1.06833	0.19084	1.06833	9372.561	10013.98
0.05445	0.86604	538.6719	466.838	-1.08043	0.33522	0.92556	478.956	443.1566
0.00132	1.14654	2087.75	2393.704	1.3616	0.00017	1.3616	2121.82	2881.52
0.50272	0.87253	1251.89	1086.111	-3.39436	1.46E-20	0.29461	913.4574	270.1149
0.21206	0.92476	3085.292	2849.177	1.18703	0.01949	1.18703	2883.465	3428.562
0.16695	0.88737	750.1823	663.469	-1.08772	0.30469	0.91935	705.692	650.0901

0.0429	1.1053	981.2034	1084.836	1.09881	0.06651	1.09881	1067.883	1173.682
0.74005	0.97615	578.3876	564.1082	1.23545	0.00518	1.23545	490.8911	606.064
0.22919	0.76487	2018.414	1498.173	1.50635	0.03214	1.50635	1433.888	2249.389
0.95719	1.00868	273.4174	278.4062	1.04144	0.82832	1.04144	240.7571	248.1613
0.95144	0.97967	118.7011	114.1738	1.45582	0.20652	1.45582	111.9867	164.8916
0.4352	1.08904	396.3701	429.404	1.06855	0.49993	1.06855	365.0123	390.1766
0.29593	0.94103	1127.571	1061.408	1.3625	0.00109	1.3625	1114.323	1518.987
0.20751	1.13535	449.3773	507.5704	-1.16312	0.09355	0.85976	550.0399	472.9515
0.32951	0.8862	904.5024	804.4256	-2.80274	2.62E-10	0.35679	713.2974	256.6774
0.44455	1.23311	155.2016	186.664	1.69064	0.03669	1.69064	169.3042	291.8003
0.62511	1.12775	162.8017	186.0873	-1.04132	0.788	0.96032	231.1079	222.1489
0.84545	1.08704	91.88301	96.90714	-1.03289	0.90809	0.96815	161.3283	157.8384
0.02383	0.87072	946.5464	823.2179	1.03784	0.74968	1.03784	765.3341	789.4214
0.00002	0.65761	3241.156	2127.229	2.02613	1.43E-08	2.02613	3056.929	6223.883
0.17859	1.12558	1653.382	1862.869	1.06747	0.14731	1.06747	1683.188	1796.769
0.74562	0.98102	902.6013	884.4747	-1.03757	0.60675	0.96379	829.928	798.9504
0.09149	0.81754	3272.394	2679.787	1.15462	0.06801	1.15462	2716.989	3137.049
0.8426	1.02965	209.2671	214.9145	1.09017	0.71396	1.09017	208.0921	223.1564
0.00005	0.51653	10959.23	5506.662	-1.01311	0.92181	0.98706	7485.305	7468.922
0.26249	1.10323	794.0438	879.208	-1.61272	0.01198	0.62007	669.9478	415.4154
0.00021	0.62619	3251.263	2017.394	1.21537	0.03124	1.21537	2402.726	2923.47
0.3923	0.94645	1129.578	1072.331	-1.17109	0.02844	0.85391	1156.279	984.3944
0.94449	1.00835	1428.971	1464.578	1.02101	0.78627	1.02101	1500.476	1529.485
0.75519	1.52503	24.36205	37.50877	1	1	1	16.84084	32.2933
0.96604	1.00795	241.2678	239.312	1.06225	0.38439	1.06225	606.239	643.6733
0.73878	0.96783	2074.17	2010.754	-1.06254	0.45988	0.94114	1917.574	1806.355
0.69845	0.96539	577.6297	555.2022	1.17847	0.03163	1.17847	480.1144	565.9374
0.94916	1.00639	691.5264	692.0009	1.21819	0.00812	1.21819	684.8283	835.8893
0.9541	0.99265	715.4862	702.3497	-1.09131	0.36199	0.91633	659.8064	606.8005
0.67278	1.21265	56.43848	68.35419	-1.04173	0.9434	0.95994	67.4239	65.8914
0.70963	0.96962	438.254	425.6028	1.03763	0.74864	1.03763	487.4254	508.2349
0.81318	1.02482	514.0796	523.8419	1.00987	0.92637	1.00987	541.9378	549.5733
0.01813	0.55096	566.3226	299.273	1.22561	0.21533	1.22561	461.0421	573.4498
0.12676	1.07414	2967.574	3182.997	-1.11415	0.07834	0.89755	3416.272	3070.962
0.20746	1.17246	210.5878	246.8965	1.02498	0.87131	1.02498	271.4818	278.3194
0.26952	0.88715	3128.365	2809.315	1.19889	0.0432	1.19889	4016.168	4836.081
5.15E-12	0.62826	3201.65	2015.58	-1.65519	1.08E-12	0.60416	3309.946	1984.667
0.3695	0.95052	40368.95	38324.25	-1.37909	2.57E-10	0.72511	42889.48	31103.63
0.58175	1.06474	351.8715	375.7734	-1.18966	0.02787	0.84058	570.8491	479.8518
0.47319	0.93599	3872.42	3640.119	1.51649	7.93E-12	1.51649	3391.329	5141.164
0.71325	1.03103	2624.329	2702.405	1.143	0.07416	1.143	2558.087	2932.597
0.97972	1.02667	34.02541	34.34032	-1.09947	0.92894	0.90953	30.53044	35.79307
0.73694	0.89983	136.2437	124.9327	-1.85829	0.41978	0.53813	78.37886	44.86086
0.82005	0.96874	467.0709	458.1279	-1.41487	0.00427	0.70678	459.6939	326.4009
0.00576	0.8528	1170.198	998.2752	1.12074	0.21141	1.12074	1155.172	1291.673
0.05798	0.73406	1908.73	1370.392	-1.256	0.05011	0.79618	1696.846	1351.877
0.93955	1.00693	537.6831	543.7343	1.12441	0.21943	1.12441	470.845	530.0601
0.0492	1.0988	2155.635	2365.633	1.10843	0.04344	1.10843	4395.203	4883.872
0.00011	0.74883	16445.99	12333.47	-1.58432	5.87E-18	0.63118	17256.75	10880.02
0.05449	1.19862	1249.712	1492.293	2.09514	0.00002	2.09514	1442.348	3158.336
0.77837	0.97743	3271.727	3213.954	-1.04138	0.35848	0.96027	3278.7	3149.141
0.00004	0.58581	332.083	194.6861	-1.68176	0.08456	0.59461	203.235	121.2299

0.82031	1.03823	207.7883	214.5064	-1.15305	0.5254	0.86727	199.4466	174.3056
0.71884	1.01772	1365.049	1388.988	-1.0076	0.91452	0.99246	982.4467	976.5888
0.88788	0.8984	54.72456	48.3711	-1.36186	0.69133	0.73429	50.68401	36.9521
0.43075	1.05031	945.9392	993.3137	-1.05609	0.44954	0.94689	1240.306	1169.854
0.61604	0.93938	423.111	399.2926	-1.16056	0.35486	0.86165	384.3911	331.4858
0.76103	0.96849	294.5298	284.9741	-1.06829	0.73562	0.93607	259.5672	246.3976
0.54905	1.03766	985.7205	1020.506	-1.0328	0.598	0.96824	1078.014	1045.077
0.57213	1.09659	272.3604	294.6462	1.10588	0.62036	1.10588	214.0436	239.3291
0.59035	0.96426	1687.545	1638.118	-1.206	0.0192	0.82919	1791.913	1478.262
0.06929	0.86146	1339.602	1147.812	1.04167	0.54233	1.04167	1147.595	1195.971
0.61053	1.04998	2622.491	2763.316	1.29924	0.00092	1.29924	2510.278	3272.121
0.06226	1.11067	1535.774	1705.498	-1.06068	0.29318	0.94279	1418.999	1337.465
0.00297	0.68565	5525.269	3798.29	1.5956	2.48E-15	1.5956	5324.465	8506.803
0.07073	1.09619	967.4036	1060.429	-1.04662	0.43878	0.95545	911.2109	870.2378
0.06295	1.18901	588.5862	696.9854	1.10114	0.13303	1.10114	723.7557	797.3784
0.29036	0.93706	3675.435	3441.118	-1.07817	0.31639	0.9275	2733.935	2533.441
1	1	18.02198	23.15718	1	1	1	16.95658	31.98073
0.25016	1.11408	819.8104	920.9644	1.07239	0.38846	1.07239	1831.257	1961.452
0.95346	1.01417	164.7775	164.6658	-1.21085	0.44916	0.82587	154.9082	127.988
0.16807	1.07649	1416.229	1526.935	-1.03371	0.63082	0.96739	1720.047	1659.152
0.78707	1.11161	97.96657	111.2775	-1.13743	0.82983	0.87917	95.30614	78.2209
0.91908	1.06981	47.11602	50.41303	1.0494	0.95907	1.0494	34.01043	35.44182
0.89479	1.01943	254.5461	257.9304	-1.11399	0.48086	0.89767	234.5245	210.5304
0.9235	1.02604	106.7823	109.584	-1.00225	0.99498	0.99776	110.8761	110.589
0.72237	1.05046	312.4916	326.3561	1.08555	0.62088	1.08555	262.4715	286.9515
0.0544	0.76817	482.6185	365.9037	1.11771	0.58922	1.11771	393.117	442.4521
0.72642	1.05525	2979.851	3091.41	-2.56479	1.07E-35	0.3899	3553.271	1377.548
0.0097	0.68812	328.6248	224.7574	-1.06976	0.75156	0.93479	166.6583	155.7906
1.46E-14	0.50553	4228.217	2134.858	-1.46964	0.00067	0.68044	3613.651	2465.977
0.01384	0.67166	828.4306	545.7036	1.16755	0.11832	1.16755	637.8424	748.0504
4.08E-20	0.57882	2761.895	1600.8	-1.73965	4.10E-32	0.57483	3044.573	1750.172
0.43378	0.92014	3565.735	3274.814	1.65057	6.01E-06	1.65057	2763.484	4601.405
0.01891	1.28381	358.2063	458.0217	1.3653	0.00948	1.3653	467.0005	634.0287
0.68999	1.03036	956.616	989.2687	1.15079	0.02846	1.15079	852.1174	979.9711
0.05731	0.68627	456.468	305.6733	-2.66163	6.24E-09	0.37571	412.4266	156.0059
0.16385	1.12437	596.3438	670.8009	1.08695	0.33385	1.08695	630.7681	684.4468
0.03003	1.30448	12762.13	16632.88	-2.33599	1.07E-07	0.42808	21797.06	8976.678
0.00221	0.80288	1110.613	891.3608	-1.3363	0.11015	0.74833	932.8258	686.8308
0.567	1.07737	375.4127	400.0889	1.76343	0.00003	1.76343	343.5668	601.4825
0.51658	0.96648	4859.863	4703.112	-1.09772	0.08662	0.91098	4588.703	4181.481
0.84386	0.96438	284.8674	276.4446	-1.44339	0.08455	0.69281	207.0505	144.0188
0.17719	0.81768	927.73	764.5709	-1.55098	4.13E-07	0.64475	662.5685	426.5223
0.50548	0.9485	2826.581	2683.878	1.55396	4.00E-17	1.55396	2419.137	3760.133
0.87118	1.01004	2917.982	2941.314	1.12388	0.0301	1.12388	3116.82	3500.163
7.22E-13	1.54582	751.748	1162.282	2.31705	2.22E-12	2.31705	696.3765	1613.889
0.67098	0.95566	796.4829	763.148	1.0726	0.27261	1.0726	1049.37	1125.478
0.00058	0.72457	2619.99	1892.827	-1.19183	0.06956	0.83905	2168.948	1818.367
3.75E-08	0.71754	1139.824	817.8978	-1.04073	0.50472	0.96086	1153.204	1108.106
0.2825	1.06221	1427.128	1516.915	1.51669	9.19E-13	1.51669	1433.907	2179.567
0.03906	1.14543	782.5606	895.1804	1.27563	0.00295	1.27563	604.2793	772.4817
0.08091	1.14253	512.6823	585.5521	3.32195	1.52E-16	3.32195	466.4887	1561.536
0.00058	0.80624	3433.678	2772.65	-11.35787	0	0.08804	2646.21	232.9283

0.57626	0.9469	1498.739	1420.321	1.1713	0.09897	1.1713	1216.624	1433.031
0.59797	1.03944	490.9238	509.7042	1.44185	5.50E-06	1.44185	428.2781	618.07
0.64511	1.02315	1263.781	1294.047	1.0131	0.87725	1.0131	1290.105	1306.447
0.10237	1.07783	6658.654	7169.214	-1.02695	0.53727	0.97376	7976.103	7768.538
0.82728	0.98966	1139.058	1127.249	-1.09724	0.18171	0.91138	927.5228	843.9576
0.00153	0.65473	2131.753	1377.367	1.35984	0.00861	1.35984	1448.377	1991.927
0.20296	0.87037	4167.261	3634.386	1.10671	0.28211	1.10671	4145.221	4565.452
0.20494	1.07648	1167.529	1258.542	-1.1016	0.17987	0.90777	1137.458	1029.376
0.28451	1.06739	3423.055	3643.759	-1.08382	0.09545	0.92266	4116.141	3794.354
0.06614	1.28303	23482.36	30069	-2.11501	1.08E-07	0.47281	34074.76	15762.31
0.63077	1.02494	1328.563	1360.182	1.00327	0.95796	1.00327	1328.758	1329.787
0.53294	0.84124	4663.277	3548.959	-11.43314	1.82E-27	0.08747	3199.605	279.8534
0.17515	0.87895	4808.749	4238.675	-1.50175	0.00018	0.66589	4360.997	2887.242
0.01563	1.11997	2438.022	2731.287	1.12155	0.06229	1.12155	2972.02	3333.125
0.50923	1.03368	865.0557	894.144	-1.0376	0.60427	0.96377	891.4316	860.241
0.35853	0.82271	450.3952	357.7755	-1.21558	0.09104	0.82265	378.3206	311.8947
0.80591	0.8358	57.25188	47.34945	1.19107	0.77896	1.19107	73.98553	85.12273
0.88762	1.02608	168.8599	172.7893	1.10097	0.59269	1.10097	279.3956	312.3652
0.49887	1.09463	343.194	379.4479	1.13732	0.30772	1.13732	447.3956	509.9091
0.02439	1.38873	33899.31	45472.16	-3.43809	6.50E-14	0.29086	61176.08	17025
0.45226	1.07749	464.0798	497.5435	-1.13583	0.34148	0.88041	448.3181	396.9336
0.02778	0.90404	3030.677	2737.058	-1.12802	0.00485	0.88651	2878.937	2552.121
0.07222	1.09502	1398.984	1531.515	1.04118	0.56205	1.04118	1217.954	1270.17
0.73604	0.85548	88.70911	74.78075	1.58668	0.29971	1.58668	74.39919	118.0831
0.98552	0.99706	7306.905	7347.904	1.09364	0.35569	1.09364	6572.535	7189.998
0.65453	0.96619	1019.522	988.0844	-1.10575	0.19254	0.90436	905.5013	817.4401
0.06766	0.87777	9842.5	8637.813	1.13728	0.1323	1.13728	9386.904	10638.73
0.02321	1.10772	2417.152	2676.184	1.06009	0.35645	1.06009	2684.813	2840.609
0.18691	0.9194	646.9757	594.6918	1.107	0.15352	1.107	569.5292	630.0537
0.21854	0.90361	4559.999	4115.573	1.2509	0.00328	1.2509	3954.162	4950.978
0.84361	0.98601	481.3273	474.5711	-1.07599	0.44406	0.92938	389.7575	362.4817
0.53805	0.9482	656.6456	620.1196	-1.13058	0.06908	0.8845	669.7235	592.1417
0.00003	0.61365	6007.415	3658.457	1.15827	0.15245	1.15827	5654.361	6552.875
0.69984	0.97948	1400.176	1368.79	1.00941	0.87071	1.00941	1418.621	1431.051
0.40488	0.94904	1615.64	1540.828	-1.12909	0.16146	0.88567	1495.24	1314.101
8.28E-09	0.75175	3512.774	2641.797	-1.83389	2.48E-30	0.54529	3479.649	1898.521
1	1	20.37403	23.58184	2.62732	0.47392	2.62732	18.20874	48.90129
0.98522	1.01017	59.69062	59.59906	1.14752	0.88644	1.14752	42.82945	50.45762
0.59259	0.94987	777.9124	733.8572	1.14434	0.15978	1.14434	701.7684	806.6319
0.1422	1.10154	2094.253	2313.359	1.0544	0.53066	1.0544	2384.776	2501.58
0.94586	0.90837	21.87301	22.48549	1	1	1	21.03331	31.35547
7.33E-09	0.68378	35879.89	24417.53	-1.43236	0.00017	0.69815	33219.61	23074.27
0.23619	0.87938	9804.634	8702.431	1.32161	0.00254	1.32161	10506.27	13824.98
9.71E-07	1.24758	2165.675	2701.237	1.26069	0.00962	1.26069	2281.093	2876.985
0.92931	1.02382	115.8574	118.0222	-1.0557	0.85875	0.94724	117.0931	110.4157
7.29E-06	0.67589	1264.029	857.2498	-1.19611	0.02102	0.83605	971.477	810.0987
0.48137	1.19779	160.2412	188.1798	1.38131	0.13787	1.38131	151.3988	208.9215
0.05729	0.76075	573.6459	429.6661	1.47101	0.00077	1.47101	427.2623	626.6315
0.81742	0.95485	204.2109	192.7807	1.09129	0.63703	1.09129	174.7174	190.3159
0.25154	1.07985	3359.802	3613.779	1.10565	0.01943	1.10565	3303.905	3653.644
0.41712	1.1102	284.0726	317.1578	-1.13126	0.42995	0.88397	242.1763	214.2564
0.00597	0.80564	5073.452	4086.689	1.44545	5.45E-07	1.44545	4360.675	6312.701

0.64855	0.93025	807.5242	741.6163	1.6328	2.45E-07	1.6328	709.8839	1164.231
1.87E-06	1.53146	26918.18	41636.19	2.22233	1.03E-16	2.22233	26701.23	59699.23
0.94631	0.91028	24.09792	23.76466	1	1	1	20.12389	30.70272
0.96786	1.00191	4451.838	4455.344	1.14693	0.03658	1.14693	4426.429	5060.11
0.81966	0.97868	466.4293	456.4797	1.10855	0.25721	1.10855	560.3887	619.4476
0.73045	0.92688	991.0969	910.0228	-2.61418	0	0.38253	1162.129	444.3915
0.41325	1.09566	1413.642	1548.747	-1.4004	0.00058	0.71408	1533.438	1088.86
0.52762	1.06365	375.2347	398.1319	1.29875	0.00774	1.29875	364.5369	473.1282
0.22885	1.09428	1064.913	1160.771	1.00696	0.9015	1.00696	1157.015	1166.05
0.00063	0.72542	735.5079	530.7689	1.15105	0.06788	1.15105	630.9901	727.6809
0.61341	1.03751	495.4486	513.6457	1.01587	0.88482	1.01587	538.3756	544.1629
0.01539	0.68029	543.2002	363.4922	1.09651	0.39431	1.09651	373.3282	410.3608
0.11694	1.15702	18349.91	21337.84	-1.67613	0.00005	0.59661	23590.13	13855.7
0.82584	1.02893	284.5218	294.2217	1.42781	0.01231	1.42781	260.0638	369.2733
0.76799	0.8884	101.0626	91.89111	1.70587	0.42921	1.70587	84.06322	128.398
0.02216	0.83169	6272.368	5232.184	1.35001	0.00112	1.35001	6350.101	8557.303
0.06638	1.10022	1604.187	1762.303	1.16303	0.00213	1.16303	1820.274	2116.883
0.19244	1.05666	7860.436	8301.319	-1.19619	0.00002	0.83599	6791.828	5678.673
0.31778	0.81375	672.7698	531.9545	-1.01157	0.91647	0.98856	574.4618	570.8961
0.1471	0.90505	1319.401	1192.072	-1.07478	0.31042	0.93042	1332.389	1240.885
0.75815	0.97306	393.0183	382.4578	1.06123	0.58752	1.06123	355.7608	377.5148
0.49635	0.94067	387.7289	364.4655	-1.0672	0.53402	0.93703	378.8144	355.0851
0.74853	0.9423	661.196	610.394	1.49993	0.06042	1.49993	500.9218	770.7446
0.98172	0.97049	20.84599	24.06127	1	1	1	18.19164	31.66142
0.96137	1.00591	461.8097	467.6691	-1.2954	0.02489	0.77197	375.239	289.2776
0.00089	0.79878	2701.483	2153.213	1.02072	0.75984	1.02072	2123.361	2159.208
0.35055	1.04909	1312.724	1376.539	-1.18893	0.00277	0.84109	1169.601	983.082
0.11385	0.85549	1230.728	1050.163	1.33481	0.00316	1.33481	1098.317	1472.902
0.834	1.02359	484.259	491.8796	1.08683	0.10842	1.08683	1183.292	1286.18
0.06499	1.1097	1619.124	1802.267	1.01514	0.78243	1.01514	1839.419	1866.516
0.00084	0.66344	17134.56	11284.84	-1.11993	0.41037	0.89292	15361.66	13620.85
0.68245	1.2526	76.41709	88.59911	-1.32701	0.80203	0.75357	46.8331	36.9675
0.30236	0.84412	690.8469	572.7562	1.63173	1.21E-08	1.63173	674.9481	1103.496
1	1	18.72861	22.45783	1	1	1	19.94843	31.30049
0.2949	0.87872	6271.529	5515.567	2.26379	5.75E-15	2.26379	5746.904	13046.86
0.71248	0.96898	613.051	595.4783	1.02453	0.86722	1.02453	571.053	581.6057
0.2829	0.91759	1048.099	961.3972	1.62247	1.97E-11	1.62247	826.4173	1338.721
0.62298	1.03345	1793.78	1849.3	-1.05646	0.2917	0.94656	1767.854	1673.45
4.36E-07	0.73115	1042.731	762.9099	-1.18494	0.14455	0.84392	780.3897	654.1425
0.72859	1.14828	67.30958	77.64877	1.70788	0.26779	1.70788	65.49075	112.4571
0.78124	1.04909	251.792	260.383	-1.26772	0.15624	0.78882	300.7293	235.5237
0.58426	0.96162	1519.835	1462.338	-1.16681	0.05313	0.85704	1375.585	1182.09
0.61209	1.10723	145.5983	161.554	-1.22799	0.52248	0.81434	137.9582	111.7821
0.00008	0.74334	1007.332	748.6041	-1.18088	0.27219	0.84683	843.8857	705.8995
0.30775	1.08879	848.3635	925.1608	-1.17465	0.17909	0.85132	976.5486	824.997
0.02411	0.87338	819.3076	716.0695	-1.01883	0.78141	0.98151	705.1179	691.4718
0.62414	0.95525	985.0056	942.5548	1.17685	0.23433	1.17685	957.7947	1127.182
0.89744	0.92662	50.97681	47.28627	1.02054	0.97719	1.02054	43.91685	44.9916
0.33614	1.05023	1640.155	1720.284	1.01583	0.74752	1.01583	1705.948	1731.395
0.35127	1.06462	1352.697	1435.082	1.02871	0.66187	1.02871	1458.441	1502.846
0.81666	0.74501	31.3466	24.54601	1	1	1	24.02265	32.20808
0.71777	1.01983	3822.067	3883.643	1.02523	0.6009	1.02523	3876.636	3969

0.49489	1.05099	647.6371	682.2252	1.14827	0.05039	1.14827	596.5238	684.4953
0.57713	0.87115	197.2216	167.865	-1.08193	0.77095	0.92427	135.0539	124.8933
0.52945	1.05118	1085.629	1137.851	1.07197	0.31452	1.07197	1192.39	1282.002
0.1318	1.0858	4220.755	4583.612	-1.20431	0.0007	0.83035	4472.048	3719.843
0.42934	1.10992	466.2314	515.6691	1.09239	0.44732	1.09239	579.7911	634.6287
0.03156	1.13235	2886.827	3257.942	-1.0483	0.3334	0.95393	3018.982	2885.74
0.82517	0.93689	18663.73	15604.46	-6.50117	5.16E-22	0.15382	28582.82	4378.167
0.42908	1.06767	538.1749	572.8718	1.18317	0.03484	1.18317	595.9937	703.848
0.94579	1.02356	102.6877	103.5079	-1.03911	0.93848	0.96236	85.85016	80.98145
0.45305	0.94366	858.9826	812.9372	-1.11423	0.22294	0.89748	781.5729	699.0311
0.06963	1.0825	1930.112	2089.281	1.36167	1.01E-07	1.36167	1927.038	2624.376
0.13926	0.77622	1452.388	1113.855	-1.00383	0.96656	0.99618	1224.294	1222.997
1.54E-06	0.59028	2106.765	1247.406	-1.51263	6.89E-17	0.6611	2263.605	1497.064
0.00545	0.69334	707.7873	484.6479	1.12813	0.06682	1.12813	548.9213	619.3068
1.21E-08	0.76849	6045.816	4650.938	1.1258	0.28251	1.1258	5572.213	6287.057
1.31E-06	0.78876	11266.03	8880.582	-1.06096	0.31466	0.94254	11486.23	10835.89
0.23741	0.88528	10251.25	9116.224	1.43174	4.12E-06	1.43174	8963.816	12870.42
0.91636	0.97278	129.5221	124.901	-1.44444	0.42427	0.69231	132.1716	87.36331
0.7885	0.90788	98.60231	89.3295	1.09707	0.80386	1.09707	95.10756	104.4723
0.03377	1.17202	10759.71	12618.81	-2.08722	2.06E-20	0.47911	14883.18	7057.216
0.07973	0.81005	1285.287	1032.138	1.11101	0.39798	1.11101	1046.947	1170.044
0.44559	1.05069	5840.929	6148.749	-1.31006	2.25E-06	0.76332	6497.012	4940.496
0.87055	0.98918	3008.052	2963.9	-1.03608	0.40353	0.96517	2974.669	2871.216
0.04254	1.2224	15711.07	19155.5	-1.5117	0.002	0.66151	23039.03	14800.02
0.80559	0.7777	30.82166	23.76139	1.37963	0.84686	1.37963	17.30878	37.33052
0.41865	0.96667	3612.691	3492.027	-1.18735	0.00767	0.84221	2767.382	2330.878
0.09975	1.07553	3135.403	3373.855	1.06582	0.19941	1.06582	3566.432	3798.842
0.00006	0.6481	1459.41	939.6083	-1.02139	0.7813	0.97906	1040.972	1021.784
0.45	1.05829	2449.168	2592.35	-1.215	0.01726	0.82305	2167.061	1804.768
0.97894	0.99499	188.5688	186.2495	-1.04584	0.80611	0.95617	186.2749	178.3621
0.99335	0.9994	1429.459	1426.413	1.40892	4.21E-11	1.40892	1371.193	1930.601
0.77675	1.01339	1927.612	1953.077	1.06285	0.34546	1.06285	1696.497	1802.762
0.45066	0.82114	236.4452	196.1828	-1.41933	0.55646	0.70456	160.8738	113.3447
0.9498	1.01391	147.8904	150.8171	1.29424	0.231	1.29424	153.8597	198.1082
0.07247	1.08604	1994.737	2167.512	1.16468	0.00169	1.16468	2124.759	2474.588
0.45413	1.10629	232.7094	256.9926	1.06247	0.61979	1.06247	270.8862	287.9555
0.01875	1.12868	811.4727	915.8634	1.39	0.00034	1.39	800.7286	1112.134
1	1	19.69691	28.10213	1	1	1	20.82751	32.42477
0.19057	0.86769	857.2796	739.3705	1.15365	0.05754	1.15365	761.0928	879.2365
0.06368	0.83143	475.8533	393.9333	1.34233	0.00131	1.34233	374.0974	501.5372
0.37556	1.0596	1457.364	1547.925	-1.11244	0.07765	0.89893	1208.616	1087.359
0.43658	1.20038	136.9589	163.6171	-1.02465	0.94498	0.97595	129.9962	129.9937
0.01726	0.73719	651.7639	474.8527	-1.69057	5.36E-07	0.59152	515.1805	304.1146
0.99075	0.99882	1636.89	1593.313	-1.0471	0.59807	0.95501	1981.304	1892.87
0.44873	0.857	392.4498	346.3933	-1.42992	0.00297	0.69934	329.2527	230.3064
0.1469	0.91519	6415.584	5891.308	-1.08261	0.23487	0.92369	6425.702	5927.097
0.08283	1.10701	1864.232	2062.467	1.55354	1.82E-13	1.55354	1638.618	2545.633
0.57567	1.04779	1903.19	1993.778	-1.5292	0.00001	0.65394	2154.529	1408.578
0.78499	0.97077	2243.295	2181.919	1.20733	0.05766	1.20733	1946.226	2352.02
0.46552	1.04697	3183.698	3338.632	-1.09444	0.17726	0.91371	3353.183	3066.311
0.37633	0.90171	346.8887	311.6986	-1.04465	0.78749	0.95726	306.212	295.447
0.89291	0.99223	2406.051	2375.135	-1.06737	0.23519	0.93689	2529.177	2364.542

0.07165	1.14405	734.0053	837.9436	1.42062	2.32E-12	1.42062	1179.352	1675.339
0.52159	0.96232	3190.985	3068.088	1.57681	1.16E-19	1.57681	3300.16	5200.487
0.19739	1.05562	2444.477	2580.64	1.0352	0.47195	1.0352	2841.319	2942.685
0.90925	0.96968	116.1073	112.3506	-1.23803	0.53012	0.80773	111.443	90.01234
0.01195	0.67839	1794.601	1206.845	-1.00019	0.9987	0.99981	1501.996	1507.716
0.00058	0.77671	699.0311	542.0082	1.19947	0.02595	1.19947	572.0551	685.0909
0.87237	0.98716	1177.816	1165.938	-1.28633	0.00646	0.77741	991.8027	772.6797
0.31564	1.05443	1773.709	1873.278	-1.02687	0.60144	0.97383	1940.922	1890.165
5.19E-10	0.6265	6361.914	3998.092	-1.22006	0.0003	0.81963	6113.378	5003.442
0.09634	1.30633	5733.952	7265.197	-2.3464	1.52E-19	0.42619	12288.14	5217.629
0.67893	0.95526	653.737	620.0931	2.49677	0	2.49677	648.7914	1621.062
0.03485	1.19444	1816.688	2168.67	1.50238	4.07E-12	1.50238	1738.36	2613.19
0.16736	0.87613	1930.892	1697.457	-1.02274	0.76033	0.97776	1666.681	1635.062
0.08283	1.11577	2957.575	3297.962	-1.04491	0.32457	0.95702	3234.09	3094.167
0.22649	0.78578	333.0455	256.5953	1.50433	0.00064	1.50433	296.3484	447.1311
0.00606	0.85525	5657.392	4837.897	1.39642	2.48E-10	1.39642	5195.145	7262.376
0.06106	1.13624	1698.667	1937.605	-1.1814	0.07253	0.84645	2052.074	1725.745
0.72543	0.96074	731.5245	699.3461	1.5672	3.68E-11	1.5672	761.6216	1192.429
0.94001	0.99368	488.1069	486.2423	-1.11307	0.27003	0.89842	543.2803	487.5064
0.61907	0.87235	13523.23	11200	-5.96856	0	0.16754	13999.33	2345.04
0.00285	1.32134	8005.858	10580.47	-1.02794	0.78584	0.97282	10492.55	10169.46
0.61603	0.89672	366.8888	315.7347	1.49784	0.0015	1.49784	395.0488	596.7551
0.83682	1.09556	90.53937	102.2772	1.24181	0.54854	1.24181	92.39061	114.0085
0.05716	1.08101	7058.546	7628.878	-1.21809	0.00016	0.82096	7349.406	6017.72
0.46858	0.94726	1202.738	1141.698	1.3847	0.00014	1.3847	1187.755	1642.899
0.26491	1.05664	1107.307	1169.905	1.06454	0.2655	1.06454	1065.873	1135.675
0.66688	0.9424	4799.165	4514.479	1.37779	0.00779	1.37779	4195.355	5793.392
0.17419	0.79598	1144.948	916.3367	-1.44315	0.00054	0.69293	1052.317	728.9793
0.90991	0.96587	146.8396	147.0201	1.02433	0.9091	1.02433	192.4921	197.3583
0.59985	1.02683	1503.667	1545.894	1.08675	0.09201	1.08675	1615.709	1755.339
0.6636	1.05767	230.3034	243.2252	1.08928	0.6689	1.08928	245.3404	266.7376
0.88932	0.96466	127.0278	123.4202	1.04618	0.88186	1.04618	119.499	124.2249
0.71202	1.02409	1962.453	2010.509	1.16052	0.00043	1.16052	2397.052	2781.914
0.78061	0.91481	132.6906	124.7082	-1.42533	0.37875	0.70159	114.1056	79.84315
0.67358	0.89558	125.3961	112.5512	-1.05876	0.91707	0.9445	87.18593	80.82889
0.12208	0.7687	3210.393	2497.126	1.02923	0.81738	1.02923	3047.819	3161.053
0.95273	0.99425	1130.284	1124.161	-1.53601	1.72E-11	0.65104	1429.854	931.67
0.22423	0.84735	462.1536	396.7921	-2.52566	0.00003	0.39594	325.6422	130.5443
0.80039	0.87763	73.8336	66.61566	-1.18878	0.78817	0.8412	54.77658	46.07624
0.69816	0.91934	175.3438	162.8992	-1.05616	0.83754	0.94683	134.2947	126.8275
0.61159	0.9616	1585.364	1525.828	1.3839	1.70E-06	1.3839	1503.255	2083.747
0.6117	0.95249	486.3344	461.3317	1.22376	0.00598	1.22376	454.5218	556.342
0.65076	1.04303	414.4276	433.3713	1.98796	0.00003	1.98796	366.5779	722.0337
0.17769	0.87939	4321.301	3801.481	1.22788	0.00229	1.22788	3930.026	4814.251
0.0488	0.66807	931.7985	603.414	1.05924	0.76454	1.05924	670.6736	721.8107
0.00086	1.15926	4902.048	5678.418	1.09347	0.07595	1.09347	5021.077	5500.478
0.02412	0.79867	2154.272	1716.737	-1.82736	4.21E-33	0.54724	1774.35	970.9695
0.31723	0.91712	1539.761	1404.638	1.02356	0.77146	1.02356	1372.9	1405.392
0.02451	0.76825	1226.451	942.2283	1.63719	5.96E-16	1.63719	884.7916	1446.717
0.73763	0.83291	75.99704	62.17462	-1.58519	0.65627	0.63084	54.9572	32.67116
0.0518	0.81622	12177.69	9996.318	-1.11358	0.09817	0.89801	10914.61	9800.069
0.57636	0.6009	53.70357	31.60221	-1.17588	0.85227	0.85043	40.02563	36.43022

1	1	16.79947	22.89559	1	1	1	16.49027	32.82229
0.02465	0.81118	1440.778	1162.87	-1.03624	0.57978	0.96502	1795.656	1737.962
0.01318	1.16828	6828.218	7991.198	-1.52601	0.00004	0.6553	8369.037	5440.67
0.15893	0.75029	263.1327	193.6937	1.11551	0.60223	1.11551	189.977	210.2054
0.56099	1.04755	9120.818	9523.825	1.56757	0.00002	1.56757	9113.392	14377.49
0.9104	0.97079	156.8187	149.3978	1.16867	0.60151	1.16867	130.7905	152.3352
0.53579	1.10532	211.0302	234.7123	1.30466	0.15997	1.30466	190.9686	249.5513
0.79809	1.02587	1295.779	1342.927	1.02562	0.79153	1.02562	1193.931	1221.685
0.35854	1.14103	249.731	284.0982	1.20925	0.14213	1.20925	253.0017	305.5675
0.9913	0.98775	34.60262	34.06797	-1.00302	0.99758	0.99699	39.33298	42.64365
0.78385	0.96177	245.0544	235.3835	1.08565	0.67494	1.08565	205.8487	225.1223
0.52925	1.03958	1436.382	1497.323	-1.05209	0.38069	0.95049	1588.83	1507.121
0.95753	1.00456	599.0752	604.1538	-1.09279	0.4651	0.91509	569.7847	519.5455
0.47784	1.04275	1110.057	1155.515	1.05155	0.51919	1.05155	1102.816	1156.386
0.30401	1.04657	3147.836	3297.375	-1.26498	0.00005	0.79053	2900.344	2287.661
0.67864	0.95979	595.5803	574.9959	-1.11915	0.37306	0.89354	637.2302	566.0656
0.53292	1.08147	223.5619	241.7838	1.07484	0.77351	1.07484	205.7445	219.6191
0.09597	1.21524	7040.527	8468.084	-1.9045	0.00001	0.52507	11296.23	5721.4
0.11349	1.12657	4921.678	5526.758	1.04364	0.41008	1.04364	5552.12	5799.466
0.93124	1.04634	54.24731	56.45686	-1.53629	0.49558	0.65092	63.9374	41.87746
0.48465	1.07	379.3247	405.7863	1.68598	0.00081	1.68598	381.1091	634.8969
0.88535	1.09714	50.66673	55.00205	-1.10165	0.91194	0.90773	42.1043	39.47424
0.46321	0.9201	415.3507	380.1475	1.7955	0.00185	1.7955	315.1041	559.0019
0.75647	0.97766	980.515	961.0807	-1.05154	0.58237	0.95099	981.0427	929.919
0.89278	0.98011	268.3084	265.0544	1.00695	0.96624	1.00695	241.2407	243.9536
0.09835	0.7985	1673.489	1334.255	-1.38538	0.00027	0.72182	865.6343	626.3954
0.26549	0.86194	7648.885	6604.282	-1.22083	0.05457	0.81911	7177.358	5864.118
0.1733	1.08085	2006.33	2173.76	1.00264	0.95937	1.00264	1920.788	1922.749
0.52835	0.93	444.2803	416.357	1.84114	2.57E-19	1.84114	647.0835	1191.223
1	1	17.4875	23.3434	1	1	1	18.97368	34.01524
0.35578	1.04959	2203.08	2318.834	1.0188	0.70319	1.0188	2159.776	2198.403
0.21641	1.06233	6220.479	6600.736	-1.14931	0.00556	0.87009	6857.133	5962.092
7.81E-14	0.6352	1544.833	980.2101	-1.05358	0.40799	0.94914	1146.106	1089.448
0.87408	0.98342	1496.933	1473.701	3.55603	0	3.55603	1386.316	4937.113
0.39198	1.03749	1692.502	1755.99	1.06363	0.42491	1.06363	1798	1915.323
0.21022	1.1064	1640.714	1818.944	1.39209	1.95E-10	1.39209	1590.387	2213.498
0.00059	0.75818	1190.099	898.9264	-1.01653	0.7967	0.98374	1073.01	1057.149
0.12139	0.89638	3112.108	2787.199	1.06155	0.27264	1.06155	3123.467	3313.648
0.15323	0.81755	490.23	406.15	1.00645	0.95012	1.00645	363.6975	365.7965
0.88584	0.9439	94.48711	87.28074	1.05064	0.90247	1.05064	87.38606	91.86961
3.79E-08	0.60259	1322.584	796.2146	-2.54868	3.01E-34	0.39236	1055.646	414.626
0.14556	1.18485	267.2585	316.2314	1.9756	1.59E-07	1.9756	244.3389	480.5187
0.99652	0.99949	2956.963	2955.465	-1.01776	0.69679	0.98255	2947.731	2898.432
0.09834	1.32457	1041.025	1385.795	2.57876	1.99E-19	2.57876	1018.08	2656.075
0.16735	1.12927	1245.546	1406.023	1.11703	0.38453	1.11703	1131.267	1261.36
0.92204	1.00916	840.6279	844.2181	1.50103	0.00005	1.50103	667.2612	1006.035
0.00045	0.81024	8453.134	6851.315	1.25684	0.00079	1.25684	7209.349	9083.332
0.09743	0.73609	364.9403	264.1953	1.31626	0.07445	1.31626	296.943	395.1947
0.91443	0.96776	124.2033	122.2665	-1.11669	0.79557	0.89551	118.4926	102.848
0.62553	0.91384	260.295	242.3397	-1.32878	0.06195	0.75257	354.217	265.084
0.93176	0.9902	349.7592	346.2858	1.00877	0.92672	1.00877	447.2476	451.9457
0.46351	1.09194	567.4407	614.0618	1.04932	0.69115	1.04932	421.2048	441.6816

0.2799	1.11071	2723.263	3045.729	1.1659	0.0014	1.1659	2523.529	2942.582
0.82822	1.0135	2804.834	2843.369	-1.11047	0.0671	0.90052	2893.47	2603.701
0.60429	1.07587	305.0907	326.8163	1.16991	0.27645	1.16991	237.7272	277.8117
0.69576	1.08709	162.9589	178.7817	1.19744	0.53779	1.19744	141.537	166.4348
0.00004	0.55932	715.3333	394.2981	-1.35718	0.07584	0.73682	458.6497	340.4662
0.69971	0.96165	873.6222	845.6835	-1.22298	0.00773	0.81768	708.2655	578.4112
0.91362	1.01627	236.1717	240.2033	-1.11842	0.60371	0.89412	221.6496	200.1605
0.00044	0.74512	28051.16	20917.57	-1.18844	0.02337	0.84144	26005.23	21917.51
0.04985	1.39215	12853.13	17549.32	-2.09985	2.34E-08	0.47622	21506.84	9986.248
0.88447	1.02128	384.8428	394.7875	1.04279	0.61673	1.04279	593.453	619.8219
0.4085	1.13496	441.1644	493.63	1.27106	0.0103	1.27106	408.7228	520.3948
0.00892	0.83808	986.7026	826.5071	-1.00445	0.96486	0.99557	1059.499	1053.688
0.56835	0.94726	3857.668	3651.512	1.01781	0.84883	1.01781	3545.758	3613.341
0.72029	1.01837	1346.663	1372.987	1.05004	0.33316	1.05004	1397.535	1467.302
0.77212	0.98534	4046.503	3985.501	1.34754	1.28E-06	1.34754	3923.884	5292.847
0.9829	0.99269	110.357	109.1664	1.02195	0.89365	1.02195	238.3014	243.638
0.07108	1.10502	2488.664	2752.92	1.02635	0.68779	1.02635	3071.799	3160.971
0.1186	1.1051	1615.265	1782.36	1.08997	0.04851	1.08997	1930.426	2104.331
0.00152	0.54155	14629.71	7638.285	-1.01415	0.91802	0.98605	12538.38	12232.44
0.70086	0.96278	1524.761	1465.192	1.05209	0.3476	1.05209	1327.996	1397.996
0.4137	1.04376	1115.019	1164.277	1.13299	0.01173	1.13299	1094.384	1239.708
0.94662	1.00414	2090.042	2106.348	1.01592	0.81969	1.01592	2280.375	2315.859
0.33591	0.75481	540.9486	429.0708	-3.18711	2.41E-43	0.31376	948.855	297.3486
0.51247	1.04457	1029.277	1070.839	1.06044	0.52037	1.06044	1153.596	1228.411
0.20141	0.82587	238.0608	196.2937	-1.00593	0.97443	0.99411	194.2786	192.5948
0.44799	1.10068	450.5956	500.9524	1.28761	0.02816	1.28761	351.1525	451.0811
0.00363	0.8206	24716.89	20359.02	-1.72768	6.97E-21	0.57881	27272.27	15741.31
0.96811	1.00198	8760.15	8772.625	-1.33607	5.86E-10	0.74846	9280.124	6943.867
0.52753	0.89392	589.5358	536.4894	-1.09906	0.41429	0.90987	370.6265	338.1268
0.00302	1.22559	840.389	1029.84	1.14505	0.03537	1.14505	1103.45	1262.244
0.00009	0.59815	696.8133	411.7122	-1.70743	1.22E-09	0.58568	609.7062	356.8497
0.75116	0.9755	477.7028	465.3585	1.04302	0.70279	1.04302	482.85	500.9697
0.55407	0.92392	253.4742	234.8966	1.36792	0.05222	1.36792	205.996	280.6914
0.06329	1.21621	578.0212	699.4305	1.42276	0.00844	1.42276	643.1832	925.2731
0.32208	1.08074	890.1321	958.6236	1.09805	0.13411	1.09805	1075.217	1178.819
0.569	1.09329	415.6724	462.6796	-1.51036	0.00447	0.66209	446.163	298.0992
0.03966	1.2943	34496.64	44412.7	-3.338	3.18E-21	0.29958	41609.16	12202.52
0.51594	0.94963	2109.596	1993.622	1.33305	0.00553	1.33305	1899.083	2538.104
0.78497	0.93782	142.8387	134.3268	-1.07291	0.78328	0.93204	162.8477	153.0902
0.85978	1.01068	3103.255	3128.001	1.01763	0.68247	1.01763	3160.352	3216.658
0.03954	0.77665	1075.12	833.28	-1.8246	5.57E-07	0.54807	1162.073	633.2208
0.23173	3.5949	18.85326	62.55399	4.02074	0.11245	4.02074	30.23507	111.6162
4.46E-07	0.72853	8793.817	6390.904	1.15689	0.04414	1.15689	7911.68	9150.379
0.68704	1.04419	1008.754	1050.953	1.62822	5.10E-07	1.62822	885.8098	1446.895
0.3964	0.93331	2790.907	2617.158	1.17555	0.00039	1.17555	2576.967	3029.284
0.00855	0.7904	2310.751	1823.425	1.10296	0.07685	1.10296	1960.72	2165.797
0.42963	0.92532	4898.96	4495.964	1.11665	0.33622	1.11665	4611.962	5143.971
0.21549	1.06079	2813.173	2981.535	1.03734	0.40935	1.03734	2992.832	3104.605
0.05081	0.79845	8904.854	7070.589	-1.21544	0.01497	0.82275	7481.838	6160.325
0.22467	1.06387	6064.959	6444.554	-1.07027	0.29683	0.93434	6635.751	6213.165
0.00057	0.48261	981.5574	457.2206	1.41177	0.0257	1.41177	769.0198	1098.644
0.24259	0.89105	684.6097	606.9493	-1.50341	1.69E-08	0.66515	696.9506	463.7448

0.03772	0.87408	1119.923	978.5336	1.03856	0.66395	1.03856	997.3439	1032.99
0.79447	1.01666	2463.101	2499.759	-1.05522	0.25834	0.94767	2234.008	2116.606
0.08321	1.09928	1138.303	1249.302	1.07371	0.18355	1.07371	1328.419	1424.736
0.32604	0.88345	454.0437	396.8882	1.21157	0.03752	1.21157	370.1289	448.1025
0.15898	0.9021	923.1423	830.9207	-1.61215	1.44E-12	0.62029	876.679	543.6495
0.00545	0.6603	763.5872	495.8622	-1.02426	0.78526	0.97631	564.4579	552.2445
0.27726	0.89677	1603.12	1436.068	-1.07491	0.47822	0.93031	935.7109	874.2813
0.0278	0.90124	5407.528	4867.604	1.02143	0.68903	1.02143	4775.705	4878.79
0.60659	1.09674	183.9604	200.5118	1.03969	0.84163	1.03969	193.2816	201.0777
0.36257	1.05675	3692.703	3900.146	1.2842	5.84E-08	1.2842	3523.62	4524.452
0.26861	1.11893	455.1787	506.871	1.01876	0.84801	1.01876	499.4833	507.4079
0.02972	0.77863	7259.112	5571.728	-1.12202	0.25783	0.89125	4988.089	4472.736
0.53585	1.05602	2428.873	2510.093	-1.30679	2.74E-09	0.76523	3949.592	3020.198
0.0098	0.63454	320.0795	200.0606	1.08133	0.59233	1.08133	243.6852	263.0435
0.04183	1.08933	5648.692	6152.867	1.01773	0.83836	1.01773	6173.482	6271.47
0.21306	0.67469	199.7398	140.5806	1.73516	0.00732	1.73516	157.5872	274.8461
0.01067	0.80639	3338.304	2703.675	-1.251	0.00195	0.79936	3006.674	2409.682
0.99046	1.00115	521.829	525.0527	-1.33856	0.06636	0.74707	486.981	368.0739
0.47537	1.05143	1045.875	1100.518	1.44405	0.00277	1.44405	883.4238	1266.973
0.65213	1.03251	1549.969	1587.735	-1.03982	0.57187	0.96171	2149.027	2064.387
0.8613	1.01098	1373.686	1387.933	-1.0834	0.11764	0.92302	2180.104	2011.632
0.9304	1.00559	2431.623	2460.357	-1.20329	0.00874	0.83106	2318.713	1930.517
0.7897	0.98702	4440.926	4380.537	1.00602	0.90432	1.00602	4441.828	4466.147
0.69191	1.12244	112.4354	124.7463	1.0972	0.72643	1.0972	126.264	137.9742
0.62373	1.19022	101.3716	123.7841	-1.17958	0.7313	0.84776	118.1633	97.64375
0.00011	0.7534	1368.458	1031.352	1.08889	0.11295	1.08889	1237.693	1347.779
0.00112	0.81643	1424.774	1162.533	-1.01097	0.90177	0.98915	1362.208	1356.286
0.00272	1.13102	4396.146	4972.175	-1.36631	0.00394	0.7319	5636.043	4107.016
0.90206	1.01334	560.9764	572.3956	-1.20141	0.01591	0.83236	979.1428	813.0914
0.80109	1.02277	391.3034	399.565	1.45843	0.00024	1.45843	480.0882	697.6146
0.74157	0.97865	1789.928	1757.937	1.12925	0.10829	1.12925	1771.276	1993.912
0.76742	0.94139	181.6226	169.6059	1.17838	0.44566	1.17838	167.8658	197.9488
0.67675	1.01726	3313.208	3370.493	-1.14469	0.01172	0.8736	3174.075	2773.129
0.79873	1.03968	228.2678	238.6264	-1.0821	0.71095	0.92413	203.6311	186.6227
5.34E-33	1.71524	3764.805	6456.306	1.76019	7.89E-07	1.76019	4020.194	7128.435
0.1245	0.88049	1327.503	1164.739	-1.40888	0.00142	0.70978	1061.079	754.0955
0.88852	0.98952	3493.023	3440.729	1.21426	0.01029	1.21426	3476.994	4219.485
2.32E-06	0.57721	24921.54	14326.58	-1.75733	7.62E-16	0.56904	22730.71	12873.72
0.54515	0.88548	236.2103	212.682	-1.8127	0.00429	0.55166	218.2062	120.4376
0.62938	0.94711	1645.541	1557.731	1.81095	4.58E-21	1.81095	1350.033	2447.16
0.88164	1.0211	345.7784	348.9822	1.10286	0.18899	1.10286	666.4891	736.2008
0.55381	1.09168	287.7062	310.8362	1.05468	0.64605	1.05468	284.5079	299.9164
0.51247	1.03934	3855.859	3995.31	1.01606	0.74473	1.01606	3932.457	3997.374
0.98148	0.99817	1046.655	1050.651	-1.09024	0.33751	0.91723	996.1279	912.1921
0.18743	1.06024	2700.126	2862.981	-1.44964	0.00002	0.68983	2679.152	1842.858
0.44675	0.9231	570.4163	523.0165	1.45204	8.98E-06	1.45204	478.1278	695.6683
0.97317	1.00666	235.7032	236.466	-1.21005	0.46913	0.82642	227.1509	184.3302
0.42584	0.90637	1656.325	1495.911	1.6862	8.25E-07	1.6862	1611.96	2745.378
0.53871	0.94034	1905.74	1802.761	1.77828	3.23E-10	1.77828	1625.612	2903.216
0.90997	0.98292	277.3525	273.0794	1.13418	0.49916	1.13418	246.8777	278.8156
0.77035	1.02202	973.4707	991.9429	1.04191	0.55183	1.04191	841.8055	878.3954
0.92946	0.99244	1750.441	1731.345	1.12347	0.15678	1.12347	1391.028	1565.956

0.45596	0.96149	1039.164	998.4977	1.36365	8.80E-10	1.36365	1001.875	1366.11
0.12169	0.80492	1082.735	864.8455	1.11544	0.38479	1.11544	1059.168	1185.085
0.66991	0.96523	835.4034	810.5893	-1.16134	0.11859	0.86107	878.8906	753.1298
0.00931	0.79417	1895.268	1507.712	-1.5401	3.84E-16	0.64931	1510.714	980.7379
0.93816	1.10057	36.83271	41.91158	-1.12482	0.94225	0.88903	27.60454	29.38402
0.82314	1.01796	2662.95	2700.051	1.03265	0.65444	1.03265	2964.032	3086.327
0.72516	0.98282	11973.13	11769.6	1.36395	6.91E-12	1.36395	11261.86	15358.57
0.92397	1.00482	3481.303	3507.399	-1.0625	0.31166	0.94117	3482.079	3282.144
0.29517	1.1625	313.3881	359.7917	1.29433	0.28481	1.29433	211.9486	269.4869
0.18246	1.05778	3940.861	4168.604	-1.02321	0.66316	0.97731	3911.048	3823.252
0.76294	1.02956	870.7287	893.2944	1.1696	0.02189	1.1696	999.8908	1169.969
0.69272	0.97477	1784.667	1737.134	4.64346	0	4.64346	1937.923	9027.842
0.87893	1.01045	3006.999	3042.431	2.03569	0	2.03569	2716.211	5530.234
0.18169	0.88208	1844.224	1624.619	1.39015	1.00E-05	1.39015	1479.085	2061.639
0.07482	0.85084	710.4318	601.5524	1.2469	0.0433	1.2469	629.063	780.7147
0.56128	1.05715	464.3737	492.213	-1.09588	0.43915	0.91251	457.997	416.1248
0.50104	0.94713	936.3197	883.133	1.04884	0.46632	1.04884	885.8312	929.457
0.47478	1.07705	518.5053	555.2772	1.05639	0.43235	1.05639	536.6516	566.9492
0.1433	1.10677	1026.315	1135.124	1.13312	0.06128	1.13312	1013.413	1148.342
0.0016	1.27416	1238.674	1574.636	1.20382	0.01694	1.20382	1261.708	1518.354
0.94121	0.99649	2465.603	2460.827	-1.1592	0.0044	0.86266	2364.668	2035.087
0.4126	1.0495	1947.577	2055.096	1.05906	0.35403	1.05906	2892.438	3064.824
0.64351	1.11357	198.7041	214.4013	1.17493	0.28885	1.17493	292.1343	345.3978
0.48802	1.04785	1469.036	1540.538	-1.1657	0.00772	0.85785	3841.283	3293.98
0.16004	1.10609	1012.057	1124.999	-1.22179	0.02726	0.81847	967.5357	789.2082
0.02318	0.73253	717.8983	518.8166	1.64851	0.00002	1.64851	602.6817	1001.539
0.74387	1.0753	131.3297	141.0228	-1.05107	0.84885	0.95141	201.4459	195.7397
0.0079	0.65048	342.3243	219.9476	1.36605	0.00839	1.36605	265.761	362.5442
0.00004	0.83214	3067.014	2552.228	1.0599	0.34907	1.0599	2757.85	2917.16
0.49143	0.95315	768.3806	730.8279	1.17038	0.10278	1.17038	662.4872	772.6252
0.07851	0.86513	882.8303	764.8658	2.0514	1.98E-12	2.0514	817.3344	1674.825
0.65964	1.05628	2137.23	2289.375	1.51154	4.33E-07	1.51154	1950.412	2962.512
0.94682	1.00617	529.0342	530.0295	1.05964	0.42253	1.05964	581.1857	616.2455
0.27838	1.07696	1812.136	1954.925	1.57317	4.42E-18	1.57317	1574.296	2474.908
0.37921	1.14521	9059.463	10138.22	-2.2041	1.43E-13	0.4537	12966.35	5811.786
0.14304	0.83448	1553.084	1296.013	-1.18901	0.07916	0.84104	3951.89	3259.379
0.23577	1.09524	474.7347	519.8998	1.08083	0.28828	1.08083	498.8478	539.2017
0.20289	1.09511	507.905	556.698	1.08696	0.35356	1.08696	538.8392	584.1975
0.0163	1.14922	833.9366	958.6669	1.54741	0.00003	1.54741	752.6046	1162.362
0.0499	0.90657	2721.854	2469.474	1.35389	6.53E-08	1.35389	2359.917	3196.753
0.57517	1.21211	110.4046	135.3048	1.15534	0.60426	1.15534	136.7765	156.3606
0.06554	1.14858	4813.709	5574.333	-1.53658	0.0001	0.6508	11008.17	7163.979
0.7816	0.90852	114.0252	102.9547	1.1502	0.56471	1.1502	155.9574	179.4213
0.76713	0.97837	808.246	793.1133	-1.04113	0.64946	0.9605	724.2894	693.4305
7.44E-06	0.75933	7885.219	5999.858	1.38518	1.47E-06	1.38518	7198.705	9972.508
0.92331	1.0959	33.98506	37.723	1.06127	0.96564	1.06127	30.12885	31.45485
0.11418	1.14557	444.1276	507.8732	-1.03367	0.71946	0.96742	444.7637	429.7128
0.73271	1.22706	51.63584	64.057	1.22773	0.81667	1.22773	40.9185	49.79901
0.2284	1.06136	6247.679	6627.896	-1.08169	0.20198	0.92448	7247.577	6720.682
0.80806	1.03082	329.1943	340.5394	-1.03466	0.83812	0.9665	315.9083	302.641
0.19439	1.07496	883.3311	949.0794	-1.02897	0.7511	0.97185	870.261	842.3095
0.9689	0.98322	62.69514	61.61634	-1.29001	0.69904	0.77519	57.81557	44.91874

0.29259	1.11675	294.0132	328.7429	1.14989	0.2629	1.14989	357.7296	409.2681
0.25756	1.08215	1426.424	1539.381	1.11683	0.03099	1.11683	1553.768	1733.056
0.88741	0.98339	335.1289	331.1166	1.0368	0.75239	1.0368	310.1	321.8033
0.74508	1.02172	2521.781	2575.032	1.0859	0.10552	1.0859	2294.905	2493.302
0.88533	0.94563	84.90342	81.20415	1.0491	0.93135	1.0491	76.78233	81.68045
0.75134	1.03866	572.385	589.1321	1.95106	3.47E-24	1.95106	519.9678	1014.932
0.30169	0.94888	3126.119	2953.604	1.02515	0.58746	1.02515	3214.397	3297.632
0.60267	0.96895	2421.144	2346.519	-1.38928	0.00006	0.71979	2484.948	1794.93
0.48043	0.83402	870.9623	740.5642	-2.56188	3.96E-06	0.39034	498.2164	199.4516
0.83348	0.98163	652.3245	638.0514	1.71662	5.25E-06	1.71662	605.8121	1036.755
0.8523	0.97669	349.8184	344.1375	1.25177	0.1326	1.25177	217.61	272.6734
0.00655	0.72307	340.5447	247.0102	1.27729	0.10475	1.27729	275.7341	349.6224
0.81309	1.08255	127.768	137.1031	-1.08389	0.73342	0.9226	184.8146	168.8238
0.04619	1.15226	1479.531	1702.406	1.72947	4.99E-15	1.72947	1309.664	2267.174
0.00198	1.55298	44019.88	67386.03	-2.33325	7.24E-11	0.42859	72729.24	30297
0.39433	1.16539	121890.7	145179.5	1.01791	0.90775	1.01791	125737	128397.2
0.392	0.90498	1368.558	1232.636	1.61071	1.78E-08	1.61071	1147.379	1855.93
5.64E-11	0.57567	2059.698	1187.854	-1.98934	4.87E-39	0.50268	1488.585	748.2346
0.49032	1.05803	1534.437	1609.835	1.03891	0.51276	1.03891	1607.903	1671.761
0.06016	0.85753	7407.157	6332.007	-1.19023	0.01463	0.84017	6214.095	5205.375
0.91091	1.00634	1739.679	1752.273	2.22258	3.78E-33	2.22258	1439.593	3204.239
0.74264	1.02737	721.2903	743.8878	1.25202	0.02492	1.25202	678.0236	845.8789
0.00375	0.72937	932.6907	674.196	-1.05976	0.53466	0.94361	710.6606	672.9951
0.96882	1.00206	2561.794	2554.124	-1.16359	0.00029	0.85941	3111.044	2673.643
0.01468	0.86893	1585.567	1378.009	-1.66873	3.58E-06	0.59926	1638.991	977.9833
0.7711	1.06594	224.2128	246.2217	-1.04501	0.88667	0.95693	193.4524	181.2607
0.12169	1.087	4664.873	5078.227	-1.1506	0.0059	0.86911	4701.988	4087.751
0.69558	1.05487	732.7029	777.0834	-1.68054	2.06E-07	0.59505	1078.95	639.0429
0.41871	0.95403	5050.194	4818.011	-1.01959	0.78066	0.98079	4887.503	4796.927
0.00123	1.23554	2723.066	3374.448	-1.22471	0.00048	0.81652	2673.047	2182.288
0.02162	1.13857	1913.729	2182.219	1.13682	0.01214	1.13682	2737.857	3119.34
0.66938	1.06754	317.7891	334.1202	1.21317	0.07562	1.21317	274.2368	332.7817
0.83058	0.87029	57.27853	50.51948	1.04954	0.95726	1.04954	47.78394	51.02676
0.78012	1.06998	161.0962	174.2846	-1.13714	0.44158	0.8794	259.6306	228.4197
0.90619	1.00737	2571.027	2581.388	1.20178	0.05824	1.20178	2458.238	2962.145
0.60328	1.05735	759.8773	805.4746	1.03191	0.52797	1.03191	1018.341	1050.786
1.57E-43	2.32041	90629.59	210061.3	1.77228	7.67E-09	1.77228	119189.3	211819.5
0.9903	0.99885	352.7629	352.6147	1.07671	0.60931	1.07671	326.092	348.9076
0.33251	1.07649	3535.509	3791.693	-1.05003	0.32466	0.95236	3855.955	3676.304
0.98002	0.99374	129.7671	128.3771	1.00992	0.98082	1.00992	121.1798	118.3104
0.00083	0.76391	883.9744	672.4163	1.32642	0.00003	1.32642	676.5448	898.5145
0.69239	0.91428	237.006	209.0365	1.22041	0.26252	1.22041	191.4467	234.5522
0.41592	1.06246	1201.873	1274.239	1.0867	0.15334	1.0867	987.2677	1073.228
0.80393	0.94756	605.6035	557.1295	1.24486	0.16936	1.24486	577.6606	729.3364
7.52E-09	0.64759	1362.845	880.8787	-1.23728	0.00008	0.80823	1038.11	838.9003
0.83502	0.95663	262.4621	242.3987	1.08815	0.5635	1.08815	240.9165	262.1433
0.09506	0.85995	3062.378	2618.183	-1.15286	0.22866	0.86741	2753.043	2401.273
0.25306	0.82374	414.5651	347.1985	-1.39584	0.03324	0.71641	284.3865	203.414
0.56668	1.05981	5882.128	6279.222	1.4674	5.52E-08	1.4674	5337.395	7839.819
0.94667	1.00539	3381.424	3400.172	-1.47611	5.38E-10	0.67745	4225.247	2855.907
0.9747	1.0025	954.3086	953.5835	1.37843	6.97E-06	1.37843	807.2432	1115.063
0.18464	0.90656	2665.54	2412.855	1.0932	0.09913	1.0932	2255.493	2464.18

4.49E-11	0.70146	1759.905	1234.795	1.54206	7.55E-12	1.54206	1338.612	2061.813
0.59567	0.94213	447.6541	424.7443	-1.11045	0.35604	0.90054	378.4493	341.6713
0.00091	0.75821	4772.309	3606.823	1.31743	0.00005	1.31743	3652.292	4828.6
0.46556	1.04673	1105.438	1159.153	-1.16579	0.04624	0.85778	1243.243	1063.208
0.21574	1.08312	1476.706	1600.961	1.0826	0.09354	1.0826	1308.941	1417.003
0.54421	1.08594	364.8607	392.3702	-1.07488	0.5587	0.93033	348.7441	323.3969
0.91442	1.05634	65.90552	70.97495	1.23718	0.6949	1.23718	81.94061	100.5411
0.10335	1.18758	12367.86	14486.47	-2.13747	2.47E-17	0.46784	18890.44	8811.421
0.06196	1.22369	10220.46	12258.74	-2.4012	1.98E-33	0.41646	13967.53	5787.639
0.62369	0.97383	835.7886	814.0325	1.01123	0.90438	1.01123	667.8214	677.7122
0.00014	1.27959	706.9161	903.7241	1.24594	0.00306	1.24594	861.4202	1070.498
0.01141	1.19067	5018.922	5995.676	-1.69679	7.50E-16	0.58935	6899.507	4039.06
0.21102	1.10543	1387.364	1525.25	-1.01429	0.76268	0.98591	1641.051	1618.457
0.59763	0.91023	256.0966	229.839	-1.07562	0.73614	0.92969	182.1454	169.4311
0.62552	1.03496	466.5641	483.0314	-1.0014	0.98921	0.9986	452.7633	450.6621
0.64333	0.9456	300.7831	285.4396	1.06934	0.67825	1.06934	276.1618	292.9153
0.43427	1.05302	2632.871	2794.324	-1.05944	0.3161	0.9439	2360.276	2224.636
0.0971	0.92564	2009.313	1859.486	1.77211	1.10E-36	1.77211	1851.235	3280.644
0.99575	1.00103	1351.529	1357.711	-1.79553	2.01E-17	0.55694	1036.953	577.262
0.64328	1.14937	146.3084	175.8548	1.31554	0.31526	1.31554	125.9672	165.5862
0.16153	1.08966	633.6735	690.7908	-1.01732	0.84672	0.98297	649.3081	636.4544
0.81732	1.05253	140.2862	147.8444	1.06441	0.84759	1.06441	133.5406	139.5228
0.36114	1.10749	544.596	598.4933	1.54006	1.97E-07	1.54006	491.6754	755.815
0.06398	0.8419	1156.488	971.4984	1.69342	4.19E-18	1.69342	991.6558	1680.512
0.41568	1.06068	496.5376	526.223	-1.0019	0.9871	0.99811	499.2971	501.4694
0.02425	0.89384	4851.15	4334.655	1.27968	3.21E-08	1.27968	4158.178	5320.114
0.38698	1.15781	334.7024	381.9948	1.26826	0.10235	1.26826	352.4496	449.8984
0.49534	1.37093	61.50697	83.01346	1.29139	0.48253	1.29139	73.29372	94.68875
0.75409	0.83439	84.72694	66.39143	1.75128	0.2698	1.75128	65.67363	113.4074
0.47961	0.94598	525.6118	498.072	-1.16454	0.20031	0.85871	396.9031	342.0895
0.50263	1.10229	2227.144	2485.325	-1.26079	0.03737	0.79315	2154.453	1710.883
0.86813	0.98815	2469.859	2432.616	1.08294	0.14221	1.08294	2536.51	2750.435
0.02391	0.74209	4152.458	3052.108	1.21789	0.05859	1.21789	3220.848	3945.72
0.11208	1.07127	4147.981	4440.332	1.03206	0.5324	1.03206	4751.8	4904.783
0.31157	0.91819	1509.185	1382.985	-1.20196	0.02336	0.83197	1266.884	1055.281
0.72495	1.02663	538.949	554.2202	-1.08135	0.36632	0.92477	549.966	507.7628
0.0536	1.09278	4740.238	5183.193	-1.99125	4.40E-16	0.5022	5459.224	2723.235
0.06534	0.87669	2291.174	2004.059	-2.16027	7.30E-27	0.4629	2027.953	940.398
0.80454	1.02453	13354.64	13805.33	-1.17003	0.02595	0.85468	14153.12	12055.55
0.36641	0.93105	558.2927	518.9927	1.15139	0.41594	1.15139	516.246	585.749
0.28452	1.07405	666.698	714.8674	-1.16087	0.1045	0.86142	695.8728	597.4282
0.58117	1.04179	966.8904	1010	1.00792	0.92427	1.00792	990.3665	996.3263
0.46378	1.04282	1366.898	1423.075	-1.09526	0.08106	0.91302	1443.55	1316.736
0.20834	1.1921	245.9671	292.7659	1.52884	0.03413	1.52884	203.5866	315.2731
0.01391	1.18833	1129.585	1341.804	-1.24089	0.02109	0.80587	1633.215	1320.143
0.00121	0.69618	4055.872	2818.563	1.54362	1.59E-20	1.54362	3631.819	5604.266
0.98473	1.00335	234.5236	235.5915	-1.1763	0.41039	0.85012	218.2643	185.5583
0.75807	0.95514	940.0848	913.0698	-1.23639	0.07826	0.80881	932.7154	748.7904
0.54704	1.03011	1213.104	1250.331	-1.12286	0.04142	0.89058	1248.646	1111.852
0.8381	1.02553	321.2225	327.6256	-1.06676	0.69878	0.93742	334.856	313.2512
0.94834	1.00419	637.8612	641.0443	-1.06293	0.39303	0.9408	746.1473	702.793
0.39001	0.91327	2526.737	2310.334	1.32709	0.0006	1.32709	2113.549	2814.198

0.09161	1.09428	1479.881	1616.509	-1.02207	0.69374	0.9784	1400.002	1370.759
0.00187	0.57433	1156.494	651.6074	1.17038	0.07823	1.17038	841.4369	989.3759
0.07753	1.09165	1320.521	1440.921	1.37627	3.19E-07	1.37627	1296.595	1783.294
0.29154	0.88349	6709.053	5991.262	-1.18576	0.02472	0.84334	4642.567	3928.135
0.73138	0.95909	635.5932	603.9667	1.34541	0.00518	1.34541	521.2378	698.0768
0.9629	0.99458	331.7818	329.4052	-1.1805	0.34125	0.8471	308.3247	261.4109
0.41604	1.0528	2445.128	2585.015	1.00256	0.96755	1.00256	2731.017	2738.566
0.0171	0.78414	1453.464	1132.098	1.04503	0.62082	1.04503	1249.708	1310.141
0.36072	0.90227	1036.094	937.3054	1.01996	0.87903	1.01996	892.0556	904.291
0.00894	0.56931	709.2189	389.9826	-1.11094	0.60452	0.90014	448.028	406.5231
0.09891	0.81911	1687.406	1386.266	-1.32783	2.76E-06	0.75311	1301.192	980.652
0.9356	0.99074	4183.114	4168.594	2.55282	6.23E-21	2.55282	4033.42	10347.32
0.62152	0.90423	186.4926	169.958	1.41359	0.09273	1.41359	169.3689	238.5084
0.38189	1.07782	513.5065	554.0954	-1.06762	0.62808	0.93666	458.1558	426.1121
2.75E-11	0.67703	2873.726	1942.714	-1.51176	1.60E-18	0.66148	2276.171	1505.499
0.40644	0.91571	616.722	567.626	1.15732	0.09197	1.15732	496.9168	576.1556
0.18391	1.11883	632.6924	705.2556	-1.01341	0.87635	0.98677	559.2311	552.7379
0.37713	1.0914	522.7063	567.3402	1.12481	0.09512	1.12481	596.037	670.7074
0.09307	0.76711	368.0245	285.9186	-1.25491	0.41556	0.79687	226.2318	184.0361
0.1766	1.16894	3592.961	4199.951	-1.02932	0.68309	0.97152	5945.229	5760.905
0.00022	0.65302	4950.354	3239.424	1.37887	0.00042	1.37887	4081.873	5649.563
0.05297	0.82017	825.7933	671.72	-1.02024	0.81284	0.98017	689.8577	677.7472
0.18286	1.08483	952.3033	1034.951	1.34481	0.00004	1.34481	1089.922	1464.663
0.28149	1.21934	209.3958	251.9164	1.35099	0.14768	1.35099	322.8015	443.894
0.02109	0.7399	388.7782	285.4369	-1.08054	0.51684	0.92546	309.7547	287.0162
0.15182	0.88231	1077.031	946.5445	1.49076	0.00311	1.49076	952.1371	1419.405
0.72443	0.93501	240.3164	225.9178	-1.10812	0.41793	0.90243	265.6833	239.829
0.0018	0.85299	1315.359	1121.8	-1.09485	0.3898	0.91337	1079.681	976.98
0.95619	0.98221	104.369	103.7953	-1.15692	0.81503	0.86436	60.15227	51.96272
0.50778	0.96417	1172.079	1130.671	-1.04764	0.56761	0.95452	1751.415	1674.525
2.01E-13	0.68646	2494.429	1711.719	-1.22865	0.0004	0.8139	1871.581	1524.425
0.45623	1.08243	784.6797	845.1749	1.59921	1.56E-13	1.59921	853.7288	1366.56
0.02242	0.83459	2455.881	2052.492	1.19915	0.01116	1.19915	2168.895	2601.393
0.81094	1.03109	561.4923	574.1903	1.05511	0.66537	1.05511	515.0671	545.1814
0.09518	1.10762	916.8799	1016.548	1.11529	0.1772	1.11529	869.561	966.5123
0.59052	1.09091	187.4942	203.9941	1.05267	0.83966	1.05267	165.4135	174.3321
0.09096	1.0845	3584.46	3893.615	-1.09913	0.07617	0.90981	3624.324	3293.541
0.03381	0.87107	1103.169	960.405	-1.49069	3.85E-21	0.67083	1008.015	676.5569
0.366	0.80771	235.6982	185.1341	1.18203	0.38947	1.18203	189.9069	225.8513
0.00133	0.8048	1858.044	1497.581	1.01719	0.78309	1.01719	2121.07	2157.282
0.87557	1.01994	582.7886	600.6053	-1.22515	0.00803	0.81623	546.907	446.4376
0.67486	0.97039	1678.698	1637.315	-1.1116	0.20651	0.89961	1777.422	1590.214
0.96008	0.994	346.2679	343.7604	-1.14123	0.65751	0.87625	257.8197	213.3285
0.86677	0.95799	139.0273	133.8866	-1.57871	0.31139	0.63343	117.416	76.27197
0.53604	0.93287	1232.596	1159.875	-1.08062	0.58368	0.92539	971.7568	899.2564
0.82059	0.98066	1072.097	1050.007	1.75432	8.78E-14	1.75432	955.4097	1674.677
0.52236	0.9101	318.2175	286.462	-1.20405	0.23368	0.83053	258.5601	215.3308
0.00003	0.70849	558.7498	395.5145	-1.72199	1.34E-06	0.58072	493.9213	286.0336
0.56251	1.02623	2798.026	2872.628	1.19092	0.02738	1.19092	2501.53	2973.851
0.026	0.85811	1284.486	1098.746	1.34477	0.00005	1.34477	1161.778	1561.895
0.05648	1.11244	817.084	908.6784	1.40374	3.41E-08	1.40374	738.5612	1037.242
0.00033	0.59691	13786.71	8098.005	1.15214	0.20095	1.15214	12030.25	13835.42

0.10707	0.79459	8783.191	6910.109	1.01188	0.93038	1.01188	7250.361	7303.91
0.12312	1.13065	875.947	989.6896	1.37609	2.04E-07	1.37609	828.4341	1141.398
0.97511	0.9964	364.839	364.2699	-1.31812	0.14295	0.75866	326.1163	244.2769
0.00559	0.8545	1715.795	1465.581	-1.06913	0.49201	0.93534	1299.907	1223.365
0.04984	1.19697	1453.183	1724.139	-1.16713	0.01508	0.8568	2503.33	2137.687
0.72854	1.0395	352.9175	365.5551	1.06924	0.64841	1.06924	306.2367	329.3291
0.81365	1.03957	209.8344	218.1829	1.00368	0.9881	1.00368	182.4715	182.1192
0.04111	1.14178	486.1828	555.1355	-1.37627	0.04249	0.7266	417.0623	304.6216
0.00071	1.16963	12106.28	14166.34	-1.05218	0.4613	0.9504	15137.14	14366.66
0.23654	0.89157	5157.294	4629.627	1.12986	0.1124	1.12986	4605.381	5197.597
0.70983	1.34941	34.1175	45.25212	1.01859	0.98433	1.01859	28.27271	36.49789
0.3341	1.07964	1563.115	1693.089	-1.03563	0.66523	0.96559	1675.168	1617.98
0.84753	1.03484	2876.051	2914.502	-1.89471	0.00038	0.52779	3018.325	1542.742
0.17038	1.10348	1817.593	2014.318	1.69918	3.57E-24	1.69918	2148.959	3650.666
0.79912	0.97171	449.791	433.8984	-1.08825	0.54172	0.9189	410.0233	379.4941
0.5575	1.07282	1068.624	1159.579	1.02266	0.72903	1.02266	964.4058	984.9898
0.65288	1.02205	2873.24	2935.24	1.09999	0.12675	1.09999	2591.208	2833.997
0.79388	1.02677	3421.069	3522.825	-1.46009	5.72E-12	0.68489	4078.186	2800.889
0.63167	0.95116	4614.217	4410.467	1.00691	0.93623	1.00691	4243.392	4276.699
0.75801	1.05527	310.0081	318.3597	1.15593	0.54366	1.15593	158.0505	181.4881
0.13161	0.81688	1433.833	1167.378	1.22706	0.1234	1.22706	1116.481	1383.872
0.6936	1.01825	1662.449	1695.247	-1.07401	0.05307	0.93109	1734.397	1613.412
0.47797	0.86192	10168.84	8344.144	-2.04608	4.84E-10	0.48874	6714.777	3224.177
0.54346	1.28351	105.9689	133.2209	-1.82385	0.54563	0.54829	61.64867	31.97224
0.1257	1.12313	3062.119	3413.831	1.21018	0.00059	1.21018	2909.763	3514.105
0.12869	0.86339	3230.114	2771.453	1.22535	0.00022	1.22535	2476.198	3043.585
0.88679	0.96955	183.4117	177.4156	1.1471	0.47037	1.1471	177.783	203.3289
0.5142	0.92523	839.0487	771.9201	1.33374	2.08E-06	1.33374	878.1529	1171.628
0.00059	0.75131	14321.38	10715.01	-1.08303	0.42217	0.92333	12351.89	11408.15
0.03236	1.16278	692.7677	803.6956	1.08558	0.26677	1.08558	883.6704	956.8569
0.62617	0.93434	285.5791	268.5552	-1.12608	0.5687	0.88804	236.6988	212.9181
0.72353	1.05044	222.0551	233.2369	-1.23209	0.30051	0.81163	198.8716	161.9459
0.34797	1.07121	660.546	705.9956	-1.0206	0.80011	0.97982	693.3759	677.8427
0.14373	0.8183	833.9535	674.2402	2.8131	6.99E-22	2.8131	688.4675	1954.223
0.01442	1.11694	1811.645	2022.646	1.06022	0.26983	1.06022	2103.122	2228.145
0.02301	1.16163	833.9691	971.0682	1.0481	0.56532	1.0481	998.4076	1042.612
0.60385	1.02947	887.1403	914.0107	-1.10845	0.10122	0.90216	732.2687	660.5891
0.57488	0.90889	228.0925	205.9435	2.13506	2.56E-08	2.13506	176.5765	376.5532
0.01023	0.73143	12485.31	9215.819	1.17637	0.10652	1.17637	13994.56	16374.75
0.39244	1.04983	11819.96	12403.1	-1.08823	0.14895	0.91892	10810.94	9938.883
0.37688	1.06545	1058.541	1130.504	-1.2425	0.00002	0.80483	1155.957	930.161
0.7509	0.98264	783.7861	770.0474	-1.04156	0.63919	0.9601	651.8801	627.5068
0.1537	1.19909	314.7844	374.5891	1.05206	0.73536	1.05206	264.4359	277.0787
0.70494	0.96736	1164.209	1129.125	1.43619	0.00091	1.43619	1046.714	1506.921
0.3649	0.86442	427.1374	360.7863	1.09819	0.48871	1.09819	396.8724	432.3974
0.01461	0.80752	2888.746	2342.162	-1.33644	0.00002	0.74826	2570.341	1922.689
0.70639	1.02937	893.9319	915.6928	-1.08215	0.17011	0.92408	917.6848	847.6962
0.65023	0.89932	620.5294	572.2221	-2.26407	2.59E-06	0.44168	356.2025	156.4234
0.05265	1.09787	2498.641	2750.321	1.0124	0.81006	1.0124	5963.323	6053.51
0.02611	0.73366	760.6361	550.5973	-1.37478	0.04088	0.72739	724.6227	532.1799
0.00757	0.81267	1234.571	1002.756	1.03006	0.73521	1.03006	1067.902	1097.616
0.57582	1.05283	641.4372	678.6791	-1.11198	0.26676	0.89929	584.7733	524.1218

0.28983	0.90887	408.9598	371.2502	1.28711	0.0268	1.28711	328.7032	422.1541
0.42386	1.04192	2025.097	2114.452	-1.14161	0.04825	0.87596	1974.071	1732.77
0.51875	1.06711	561.6667	595.8342	1.08679	0.40911	1.08679	613.9662	668.8016
0.69144	0.93413	868.3459	824.3118	-1.44346	0.03597	0.69278	724.0555	501.611
0.86213	0.98993	2308.528	2279.926	-1.41289	2.03E-13	0.70777	3010.067	2130.841
0.57085	1.04542	2426.41	2518.962	1.00647	0.9063	1.00647	2727.211	2749.645
0.58523	0.94211	362.1867	342.5616	-1.03514	0.82259	0.96605	355.2152	339.6305
0.5929	1.03223	1484.866	1530.475	1.1311	0.01305	1.1311	1540.051	1741.57
0.98899	0.99577	110.9496	109.5763	-2.55104	0.18242	0.392	91.25297	35.95506
0.16171	0.88315	3719.681	3297.474	1.52255	0.00081	1.52255	3304.929	5065.485
0.9396	0.97888	138.9109	133.8362	1.05952	0.81055	1.05952	169.9731	180.603
0.42933	0.94262	3685.013	3459.464	1.18366	0.00683	1.18366	3516.511	4186.6
0.02019	1.22242	10608.57	12535.72	-1.54564	3.68E-06	0.64698	15907.87	10243.59
0.67721	0.96354	7774.871	7492.911	1.14309	0.05265	1.14309	7243.992	8287.983
2.77E-07	0.53736	3340.566	1782.391	-2.15554	2.18E-12	0.46392	3019.214	1388.93
0.60297	1.04053	1694.655	1750.906	1.01205	0.8662	1.01205	1782.357	1805.943
0.11177	1.07521	1615.944	1738.052	1.48021	1.19E-10	1.48021	1605.203	2378.825
0.87681	0.98317	1699.518	1662.011	-1.00306	0.97838	0.99695	2687.665	2562.283
0.77954	0.95901	434.0412	420.3267	1.00712	0.93797	1.00712	421.2808	424.7152
0.73822	1.03746	324.3387	335.4177	1.0925	0.46065	1.0925	285.948	311.9829
0.00698	0.60282	1409.167	823.3863	1.04961	0.69057	1.04961	970.9903	1028.383
0.19865	1.0602	3117.529	3303.917	-1.14661	0.01571	0.87213	3476.851	3022.062
0.73495	1.08671	146.5906	157.4544	1.27021	0.39312	1.27021	119.3585	152.5669
0.16696	1.15125	25050.96	28760.02	-2.62872	5.11E-36	0.38041	27977.49	10618.7
0.27687	0.94725	2178.451	2066.649	1.95077	1.59E-36	1.95077	2031.813	3960.085
0.03009	1.1642	788.6563	916.8925	1.82907	4.77E-13	1.82907	690.3678	1260.463
0.92518	1.04054	91.86438	95.1161	1.02575	0.92925	1.02575	109.6936	112.4243
0.88519	0.95862	121.2914	116.9437	-1.56003	0.40667	0.64101	91.66928	58.62213
0.15933	0.78276	421.5937	323.7121	-1.06999	0.58437	0.93459	358.9011	336.6862
0.48854	1.05345	671.7428	709.7224	-1.0384	0.51129	0.96302	1261.644	1213.552
0.45957	1.04483	1656.685	1726.199	1.0974	0.03704	1.0974	1769.844	1942.421
0.63357	0.93524	482.2247	456.6451	-1.6173	0.01399	0.61831	378.9558	236.0674
0.09836	1.08643	1945.117	2113.944	1.02981	0.64921	1.02981	2267.931	2329.367
1.12E-08	1.43731	606.7044	871.2179	1.7139	5.19E-08	1.7139	630.2717	1078.762
0.97578	0.99746	453.9456	453.1288	1.00957	0.94103	1.00957	404.5128	406.357
0.21648	0.82322	265.2817	217.1116	-1.34234	0.11931	0.74497	197.9822	147.5696
0.28153	1.11688	2312.083	2584.625	1.66975	5.50E-13	1.66975	2204.534	3691.845
0.33343	1.06159	651.8595	691.5709	-1.01099	0.86	0.98913	705.431	697.6488
0.4502	0.90266	695.7125	634.4784	-1.65197	0.01304	0.60534	452.7607	281.3145
0.26254	1.06172	1478.348	1570.944	-1.00277	0.95893	0.99724	1505.6	1502.919
0.80982	0.93998	2317.99	2163.372	1.29314	0.28381	1.29314	1924.756	2541.816
0.49304	0.86402	239.5522	202.8795	1.32392	0.34281	1.32392	179.5128	233.8719
0.77614	0.96143	399.7739	389.9211	-1.06763	0.48283	0.93666	425.8539	398.5411
0.9611	1.01643	106.2063	106.9523	2.13275	0.01065	2.13275	117.2334	244.0885
0.4178	1.03886	7708.278	8011.462	-1.11654	0.04679	0.89562	7141.989	6400.899
0.89182	0.96149	133.6384	126.3582	5.50147	1.07E-21	5.50147	119.8128	656.959
0.91756	1.0476	78.46561	83.80751	-1.75092	0.42092	0.57113	77.70957	44.70084
0.18589	1.06026	2227.273	2362.506	-1.01813	0.72639	0.98219	2487.065	2441.249
0.34975	0.91808	15744.72	14509.85	1.22566	0.04361	1.22566	18532.45	22475.34
0.02713	1.24319	3150.894	3951.964	2.85693	1.86E-16	2.85693	2593.402	7512.344
0.18987	0.81786	471.1411	378.4408	1.49009	6.78E-06	1.49009	378.9551	564.4169
0.18382	0.74711	3521.329	2582.693	-3.79973	3.28E-15	0.26318	2387.238	602.942

1.20E-06	0.58548	11785.88	6916.704	-1.14773	0.04738	0.87129	10117.2	8820.857
0.77147	0.96252	805.398	770.218	1.26655	0.05426	1.26655	946.0862	1201.369
0.0208	1.19492	596.8919	711.5342	1.01689	0.83663	1.01689	640.2509	651.9772
0.94824	0.99644	1686.963	1683.994	1.02762	0.61811	1.02762	2732.729	2811.114
0.04669	1.10332	1458.276	1610.163	1.00892	0.88313	1.00892	1572.009	1584.99
0.00058	0.72386	8840.324	6381.458	1.14735	0.00616	1.14735	6332.236	7270.655
0.11335	0.82293	1420.057	1159.142	1.08057	0.35798	1.08057	1149.719	1245.565
0.20606	1.11062	520.655	576.4723	1.14832	0.05392	1.14832	604.4536	694.5736
0.72945	1.11162	94.81322	105.9069	-1.72745	0.15089	0.57889	112.0976	64.76167
0.38657	1.03862	2643.109	2744.764	1.05491	0.41523	1.05491	2750.631	2911.392
0.82226	0.98019	347.3485	340.5354	-1.22264	0.12938	0.8179	382.6036	312.0831
0.69113	1.02572	3046.444	3161.971	-1.1888	0.00151	0.84118	2955.43	2482.421
0.25208	0.83433	1120.126	920.0597	1.46814	0.00683	1.46814	1146.936	1708.93
0.25388	0.71946	164.8677	116.6056	1.87503	0.01354	1.87503	125.9624	235.5618
0.21407	0.91816	2376.534	2182.382	-1.79263	8.66E-09	0.55784	2097.344	1167.001
0.55833	1.02922	4240.086	4374.634	-1.01175	0.82245	0.98839	4319.964	4268.668
0.94768	1.08669	24.96693	28.33039	1	1	1	23.31775	30.57809
0.37652	0.92694	679.4689	632.4284	-1.07842	0.51852	0.92728	640.2495	589.6893
0.18997	1.07622	3893.429	4174.751	-1.03396	0.43271	0.96716	4143.378	4008.907
0.50053	1.04462	9810.373	10338.34	1.0026	0.97119	1.0026	9840.641	9819.201
0.90696	0.97312	503.5376	474.6399	1.85611	0.00052	1.85611	388.7606	734.0635
0.62291	0.83051	100.3018	83.37822	-1.18052	0.79233	0.84709	75.14742	64.64412
0.59028	0.84878	130.7011	110.8491	-1.07387	0.90309	0.93121	121.8896	101.7074
0.74368	0.97449	3016.629	2943.33	-1.80552	5.03E-34	0.55386	3347.349	1854.787
0.00064	0.64945	10374.91	6734.145	-1.4801	7.04E-14	0.67563	8298.566	5603.844
0.48273	1.08515	1231.133	1339.977	-2.21302	4.99E-23	0.45187	1126.521	509.8939
0.38459	1.04538	1241.707	1298.637	1.27299	0.00067	1.27299	1204.156	1531.361
0.96942	0.98084	87.47543	91.70108	1.02523	0.94388	1.02523	106.0303	108.233
0.09765	0.73647	303.2383	219.4727	1.34683	0.08057	1.34683	211.5577	286.509
0.85587	0.98163	441.6762	433.2487	-1.20412	0.08708	0.83048	387.1542	322.0274
0.1111	0.80452	345.0418	275.8814	1.04728	0.72903	1.04728	263.5891	275.5672
0.3388	0.89689	1966.273	1757.229	1.21771	0.01953	1.21771	1804.211	2208.46
0.76875	1.05648	180.3991	191.8168	-1.09111	0.63868	0.9165	189.9366	173.9516
0.64709	1.11531	193.3765	202.8307	1.31239	0.00197	1.31239	345.8471	453.9138
0.53187	1.04016	1509.639	1568.49	1.16637	0.00415	1.16637	1204.321	1405.15
0.09903	1.08303	2212.147	2392.66	1.04581	0.37898	1.04581	2323.348	2430.349
0.43749	1.04233	1911.873	1988.394	-1.05393	0.32518	0.94883	1880.901	1784.7
0.98746	1.01336	44.41289	44.52404	-1.26831	0.80811	0.78845	49.66457	37.36675
0.792	1.05928	277.8063	299.7572	-1.23665	0.29183	0.80864	202.485	164.3731
0.11848	1.25286	223.9321	279.0405	1.6015	0.00234	1.6015	206.4031	330.7261
0.27527	1.0834	2395.963	2601.115	1.06657	0.16834	1.06657	2514.201	2681.057
0.20669	0.94113	1107.621	1042.248	-1.12491	0.05312	0.88896	994.6325	883.2527
0.00224	0.75799	1538.477	1162.981	1.59683	3.80E-20	1.59683	1346.736	2149.359
0.34944	1.07081	1550.874	1648.281	-1.12563	0.1039	0.88839	1819.283	1600.199
0.87019	1.05574	106.2609	111.9638	1.04645	0.9006	1.04645	118.8578	121.9797
0.74036	1.09627	101.8384	111.2789	1.20186	0.57718	1.20186	89.76169	107.6313
0.00795	0.71628	951.4192	672.7723	-2.01904	1.01E-14	0.49529	719.382	355.6625
0.44877	0.95272	660.5256	629.9022	-1.10285	0.22079	0.90675	642.9883	583.702
0.63365	1.05896	430.4392	451.8427	1.05201	0.67395	1.05201	388.8965	407.3848
0.29124	0.91976	1225.086	1120.771	-1.66114	1.64E-09	0.602	1210.875	730.0361
0.59211	0.76204	104.6013	74.43732	-1.11306	0.76709	0.89843	116.2416	104.3962
0.04356	1.10787	2939.067	3264.617	1.01815	0.73024	1.01815	2968.75	3016.79

0.10679	0.74947	2544.786	1929.697	-3.04172	4.92E-13	0.32876	1119.396	367.6215
0.00407	0.80487	801.7132	643.2155	1.06142	0.34209	1.06142	685.8301	727.6594
0.4663	1.04676	1018.206	1064.774	1.08717	0.0831	1.08717	1144.678	1244.442
0.34401	0.81397	308.2975	242.7177	1.22944	0.16037	1.22944	259.9005	317.9418
0.02626	0.85844	2594.903	2227.994	1.08664	0.30518	1.08664	3125.85	3379.156
0.11738	0.81748	4141.929	3366.477	1.16236	0.18704	1.16236	3600.68	4230.758
0.32017	0.92022	1424.486	1310.675	1.51332	1.64E-09	1.51332	1207.41	1832.551
0.30904	0.94289	1113.467	1050.617	-1.00141	0.98555	0.99859	997.9171	995.2751
9.09E-23	0.61882	3836.219	2374.61	-1.29871	1.18E-06	0.76999	3019.677	2323.928
0.6141	1.03219	3507.582	3609.792	1.01782	0.79347	1.01782	3643.438	3719.681
0.00149	0.75138	3754.429	2813.954	-1.11867	0.44147	0.89392	2847.158	2524.226
0.46568	0.96638	2131.857	2061.885	-1.05548	0.45369	0.94744	1910.505	1808.376
0.00029	0.73572	1765.578	1292.806	1.14146	0.10804	1.14146	1407.467	1613.661
0.47662	0.952	863.6564	824.5751	-1.15273	0.06733	0.8675	958.413	829.8925
0.97639	1.00298	4034.561	4110.688	-1.01734	0.81613	0.98295	3681.855	3600.526
0.72952	1.02704	1286.86	1312.805	-1.11866	0.06414	0.89393	1369.125	1225.479
0.17811	1.10583	653.4836	720.8427	-1.02077	0.8133	0.97965	677.033	661.6213
0.8934	0.97123	163.2896	158.9076	-1.03146	0.92554	0.9695	148.7219	142.5879
0.05327	0.69435	810.2093	547.9044	14.71189	2.39E-41	14.71189	827.066	12729.88
0.09251	0.79993	604.8224	477.8653	1.14475	0.0847	1.14475	496.0412	567.5533
0.19178	1.10443	453.5118	500.3964	-1.14841	0.23696	0.87077	463.1053	403.1401
0.0053	0.62331	2590.316	1580.643	-1.71287	0.00002	0.58381	1835.487	1068.618
0.68784	0.87971	125.3296	110.698	1.11419	0.75776	1.11419	94.00975	105.0747
0.12404	1.11562	726.9558	808.8007	-1.08739	0.25516	0.91963	727.7374	668.4572
0.54456	1.06033	610.9671	644.6937	1.97293	3.92E-27	1.97293	578.999	1141.999
0.48802	0.96541	3227.807	3115.757	1.23285	0.00006	1.23285	3157.902	3893.618
0.28618	0.76227	183.5049	142.491	-1.32535	0.39217	0.75452	159.3344	118.3006
0.15921	1.0712	2372.316	2545.525	-1.01942	0.7198	0.98095	2500.215	2451.298
0.96719	0.96202	42.87227	38.74295	1.38079	0.73333	1.38079	30.25722	41.61319
0.56617	0.92603	359.5926	335.5841	-1.02937	0.83529	0.97147	285.6504	278.3359
0.88061	1.0467	109.4143	115.6705	1.17272	0.59001	1.17272	107.4354	125.849
0.71112	1.10731	106.7123	118.8944	1.18049	0.68886	1.18049	103.051	118.1084
0.78515	1.02617	840.5821	858.4544	1.01944	0.74659	1.01944	801.265	817.1194
0.24025	0.76827	181.3678	138.0434	1.23359	0.31359	1.23359	155.8485	191.838
0.01742	1.15984	7554.274	8776.475	-1.15606	0.02735	0.86501	9048.427	7794.159
0.41944	1.11185	269.432	301.0367	1.00448	0.9791	1.00448	247.0479	246.5855
0.00033	0.7197	1261.69	906.0028	-1.32768	0.00223	0.7532	971.7139	728.5818
0.01236	1.18275	4179.289	4942.779	1.62193	2.94E-11	1.62193	4845.795	7864.491
0.62116	0.91186	253.9745	232.1941	-1.07615	0.71943	0.92924	231.9723	215.9429
0.70148	0.92764	253.2224	239.2475	-1.28196	0.21429	0.78006	245.5894	190.0101
1	1	19.35522	23.88875	1.12674	0.94781	1.12674	17.81318	32.00925
0.57414	1.05892	652.7902	686.6332	-1.05903	0.37841	0.94426	690.1416	651.438
0.13125	0.76852	565.0681	424.1748	-1.00805	0.94141	0.99201	468.8196	466.7656
0.61175	0.95879	5842.328	5619.446	1.28897	2.15E-09	1.28897	5212.633	6718.96
0.78636	0.97097	272.725	264.6754	-1.11989	0.51099	0.89294	252.7202	224.8127
0.9493	0.99299	1369.13	1368.295	-1.14098	0.01363	0.87644	1270.568	1114.176
0.39934	1.08789	7169.666	7810.545	2.07597	4.40E-15	2.07597	6200.445	12933.48
0.66675	0.93981	476.0794	454.3921	-1.24571	0.10851	0.80275	398.4321	318.6033
0.07119	0.85781	1791.689	1540.857	-1.27011	3.59E-06	0.78734	1403.819	1105.717
0.82157	0.95747	157.7649	150.884	-1.22237	0.42662	0.81808	150.4843	123.5396
0.9217	1.04344	79.7966	84.99544	1.02261	0.96694	1.02261	74.28872	76.49165
0.92324	1.00618	1374.887	1378.923	1.00458	0.92906	1.00458	1442.886	1450.806

0.55109	0.92302	676.064	616.8026	-1.04184	0.72262	0.95984	582.2147	561.9908
6.78E-07	0.80625	2169.646	1749.361	-1.05688	0.29742	0.94618	1853.183	1750.591
0.24651	0.76022	339.132	248.5318	1.55731	0.01148	1.55731	317.778	503.3194
0.58919	0.97379	2914.723	2841.373	-1.11112	0.027	0.89999	3019.729	2717.786
0.10912	1.12006	2954.678	3329.823	1.02086	0.74397	1.02086	3182.184	3251.97
1.96E-06	0.70409	1722.604	1211.842	-1.29325	0.00058	0.77324	1533.461	1183.433
0.04039	0.61225	8330.965	4986.93	-4.01274	1.65E-15	0.24921	1735.117	432.4017
0.87733	1.00889	2750.944	2767.832	1.038	0.40778	1.038	2987.828	3102.169
0.91616	1.0066	952.2738	956.5119	-1.00688	0.92272	0.99316	1539.896	1532.261
0.11372	1.08414	7093.728	7696.801	-1.08236	0.20905	0.9239	8525.899	7832.418
0.44327	0.90405	569.9506	509.4432	-1.18714	0.06009	0.84236	481.9633	406.4124
0.66755	1.02471	1779.986	1819.903	-1.12837	0.03422	0.88623	2027.822	1794.709
0.82791	0.95817	226.4379	213.7607	1.55605	0.01648	1.55605	197.1977	309.8638
0.1416	0.85141	1500.755	1271.579	1.84219	6.68E-06	1.84219	1285.101	2396.563
0.69142	0.96086	1856.946	1779.88	1.0691	0.43042	1.0691	1739.987	1859.629
0.07797	0.68181	7815.132	5320.407	1.48989	0.00246	1.48989	7787.475	11641.17
0.51603	1.05846	901.4266	959.1762	-1.10745	0.0645	0.90298	887.6122	801.5504
0.25235	1.08207	1897.416	2040.411	1.01626	0.75092	1.01626	2007.49	2037.052
0.00706	0.75055	6965.536	5179.704	-1.10241	0.09457	0.9071	5828.167	5301.263
0.43126	1.11266	3865.8	4243.937	-2.62822	0	0.38049	4809.61	1830.078
0.15908	1.16409	6684.854	7698.102	-1.62433	2.94E-06	0.61564	14622.43	8832.785
0.82129	1.03977	195.4945	204.4702	1.24265	0.16641	1.24265	222.0464	275.8053
0.15624	1.06596	4264.664	4543.72	-1.07535	0.24769	0.92993	3678.512	3432.269
0.69696	0.97104	728.7822	707.264	-1.02269	0.74033	0.97782	747.8486	730.5018
0.34864	1.04317	2562.206	2673.941	-1.30078	3.91E-09	0.76877	2906.154	2234.847
0.35545	0.91294	15506.59	14136.09	1.25497	0.01202	1.25497	15140.75	19061.77
0.18422	0.79959	974.8073	765.2692	1.46931	0.00713	1.46931	745.255	1110.289
0.77239	1.17002	45.95853	53.72171	-1.50014	0.55751	0.6666	62.5204	41.64109
0.00583	1.13634	1631.552	1854.737	1.23225	0.00022	1.23225	1716.222	2117.02
0.25882	1.11786	950.1394	1066.703	1.00645	0.93005	1.00645	1298.769	1310.271
0.94017	1.00427	1481.415	1484.596	-1.1179	0.04439	0.89454	1435.437	1284.37
0.07428	1.11382	9901.364	11082.38	-1.15376	0.07708	0.86673	9984.516	8571.888
0.05017	1.09403	2822.203	3083.901	-1.2033	0.00208	0.83105	4260.407	3539.797
0.47916	1.1634	208.9034	237.3126	1.04923	0.75001	1.04923	278.1254	293.2973
0.42719	0.92464	386.6787	356.5688	-1.12181	0.41811	0.89141	364.9827	325.2282
0.60428	1.03053	1792.063	1839.224	1.04355	0.48159	1.04355	1831.575	1917.427
0.61055	0.95298	616.8279	584.8119	-1.18457	0.04175	0.84419	630.6996	533.4391
0.44892	1.07368	1113.029	1189.053	3.43667	5.67E-30	3.43667	881.7079	3046.737
0.91343	0.98773	8059.757	7960.858	-1.08221	0.08963	0.92403	7581.908	6998.145
0.10352	1.09255	1495.964	1635.168	1.15786	0.0397	1.15786	1502.745	1735.779
0.80839	0.98599	2178.021	2138.173	-1.06685	0.20784	0.93734	2088.627	1954.268
0.45188	0.92814	2839.442	2649.188	1.63027	1.51E-13	1.63027	2445.382	3990.06
0.80067	0.97188	335.038	326.812	-1.08515	0.65095	0.92153	271.4741	247.5625
0.01522	1.11551	1615.403	1802.512	-1.12409	0.0177	0.88961	1702.485	1514.428
0.11135	0.86572	743.7886	647.073	1.27584	0.00051	1.27584	608.7367	776.0764
0.78072	0.93265	123.0755	114.5082	-1.06598	0.68682	0.9381	278.8108	261.7103
0.10994	0.90765	1678.289	1524.176	-1.00427	0.95416	0.99575	1452.553	1444.513
0.08722	1.13405	846.6503	962.2074	1.27904	0.11441	1.27904	749.6738	956.6252
0.31051	0.89022	3537.628	3184.099	1.31715	0.00176	1.31715	4262.327	5600.1
0.36199	1.13944	317.0101	361.9985	-1.02638	0.73665	0.97429	562.8573	548.6688
0.01948	1.1628	3295.852	3828.939	-1.12991	0.024	0.88503	4400.313	3884.051
0.65393	0.97762	1318.189	1289.897	-1.01838	0.76417	0.98195	1279.685	1256.03

0.31544	0.89939	1197.258	1088.443	-1.28876	0.0105	0.77594	921.132	717.4419
0.64001	0.88799	156.0648	138.1086	-1.14589	0.66839	0.87269	141.7744	123.1589
0.53628	1.04273	605.3206	630.5031	-1.14757	0.02869	0.87141	722.4517	629.6488
0.2792	1.12263	334.3597	374.2228	-1.05644	0.60738	0.94657	675.5042	642.7062
0.78897	0.94625	1954.151	1863.086	-2.06329	5.37E-27	0.48466	1888.162	914.9865
0.11328	1.33402	2193.709	2964.025	2.53022	2.28E-10	2.53022	2064.47	5353.026
0.92429	0.98874	1427.89	1439.354	-1.16854	0.00212	0.85577	1122.788	960.9605
0.00143	0.60017	1297.574	767.6598	1.10723	0.32358	1.10723	1172.436	1301.234
0.87515	0.87266	61.2424	47.37493	1.81615	0.37025	1.81615	48.68293	88.08878
0.92932	1.00961	1298.071	1304.673	-1.02836	0.73917	0.97242	1193.885	1165.47
0.40287	1.04313	3317.149	3468.204	1.00414	0.92559	1.00414	3674.622	3690.827
0.93953	0.92995	37.74749	35.24718	1.21779	0.82772	1.21779	47.4438	62.16338
0.37837	0.76847	132.4622	103.1144	-1.01137	0.98041	0.98875	89.71568	89.07849
0.58034	0.91683	374.3673	350.5862	-1.34261	0.03122	0.74482	385.8102	286.2551
0.003	0.61477	715.7157	431.0098	1.05446	0.57102	1.05446	447.5909	472.6483
0.30463	1.09347	673.652	733.139	-1.00486	0.94188	0.99517	795.9048	791.2612
0.49386	1.06499	688.3076	736.29	1.41426	0.00466	1.41426	630.3254	887.7603
0.12333	0.90015	1251.03	1122.812	1.18358	0.16685	1.18358	923.7712	1101.662
0.53781	0.96931	10995.74	10671.12	1.41914	1.18E-09	1.41914	10455.78	14819.87
0.47097	1.06085	1364.194	1446.95	1.0642	0.45055	1.0642	1298.449	1382.574
0.96555	1.00462	3048.236	3087.675	1.64063	3.00E-17	1.64063	2575.008	4220.382
0.4386	0.85083	360.1947	317.5073	-2.46675	0.00004	0.40539	271.7838	109.5232
0.00002	1.3086	6522.182	8517.672	-1.07354	0.20492	0.9315	7266.062	6764.437
0.31472	1.06408	1223.021	1302.896	1.00726	0.87495	1.00726	1781.011	1794.077
0.00156	0.64975	21862.68	14203.91	1.1312	0.15299	1.1312	17548.57	20027.6
1.07E-06	0.78457	1609.731	1262.06	-1.18759	0.00212	0.84204	1477.271	1243.875
0.94541	0.99088	336.1401	330.1086	1.4296	0.00615	1.4296	298.2835	428.5603
0.1872	0.86621	1846.772	1611.591	1.26385	0.01446	1.26385	1792.469	2272.05
0.70658	1.03067	1807.135	1859.268	-1.35075	0.00002	0.74033	1683.263	1240.602
0.00034	0.77809	1644.17	1279.927	1.02747	0.5708	1.02747	1426.653	1465.694
0.00671	0.73825	669.9378	490.6288	-1.29388	0.00045	0.77287	684.5651	528.9471
0.99428	1.00255	130.5217	128.1967	-1.04583	0.72482	0.95618	382.0168	364.6886
0.96652	1.00396	1024.703	1032.31	1.39684	2.28E-09	1.39684	931.9965	1301.63
0.00467	0.85593	3094.406	2653.923	1.55431	4.51E-22	1.55431	2734.187	4248.329
0.98481	1.00096	1204.332	1205.024	1.00937	0.85986	1.00937	1101.674	1111.448
0.93079	1.0038	2625.896	2635.659	-1.12628	0.01752	0.88788	2003.13	1777.021
0.00007	1.21055	3680.512	4454.609	1.02129	0.77022	1.02129	4498.53	4595.12
0.90273	0.99174	688.8034	681.8545	-1.05014	0.43248	0.95226	777.5117	740.6679
0.55913	1.03773	2619.583	2723.604	1.01844	0.72409	1.01844	2902.944	2957.815
0.58329	0.89421	250.3532	219.5063	1.05697	0.78683	1.05697	205.5075	217.3079
0.76538	1.03264	473.7697	492.5859	-1.00288	0.96877	0.99713	671.4728	670.5178
0.63747	1.1339	106.2409	120.2026	1.13982	0.65788	1.13982	108.2127	122.8949
0.90741	0.97853	197.6996	194.5182	1.11225	0.66095	1.11225	172.4134	189.4307
0.02543	0.86015	4589.742	3946.157	1.09232	0.1174	1.09232	3764.754	4106.603
0.68254	1.03787	378.6769	392.523	1.04632	0.83899	1.04632	259.6054	275.3864
0.26712	1.09998	2015.423	2217.557	1.23537	0.00012	1.23537	1894.119	2342.551
0.97144	0.97114	46.87402	47.2424	-1.18249	0.89196	0.84567	40.63355	32.07676
0.00183	0.84955	2568.964	2184.292	1.60783	4.08E-16	1.60783	1955.019	3139.921
0.92173	1.00857	39403.8	39874.86	-1.21707	0.00038	0.82165	38181.13	31348.53
0.83698	0.9795	320.8416	313.9015	-1.20512	0.09966	0.8298	326.0605	270.6704
0.34024	1.12118	267.9287	300.8773	1.01965	0.77527	1.01965	767.8051	782.0653
0.03758	0.75585	535.7683	400.9243	-1.07281	0.47018	0.93213	412.5692	385.0898

0.9814	0.99485	256.0922	245.8271	1.3639	0.02788	1.3639	302.2441	415.4128
0.48555	1.07161	6276.745	6784.903	-1.53793	3.24E-16	0.65022	5959.525	3872.207
0.00146	0.68322	2442.216	1671.685	-1.39272	0.00337	0.71802	1972.332	1418.281
0.30772	1.08909	1433.026	1555.707	1.15899	0.03193	1.15899	1455.545	1688.642
0.66975	1.03267	719.0112	742.9696	-1.01642	0.75388	0.98385	1289.126	1268.223
0.86589	0.98622	742.4251	729.3392	-1.26433	0.00331	0.79093	830.2029	655.1319
0.79616	1.01427	2070.306	2096.518	-1.03553	0.44652	0.96569	1898.21	1832.493
0.72831	0.97669	718.4182	700.2716	-1.05914	0.48405	0.94416	676.7381	637.5101
1	1	20.96859	23.91512	1	1	1	20.22791	29.19396
0.6352	0.89776	187.9654	166.6238	1.23996	0.29554	1.23996	167.6401	208.9962
0.10883	1.10134	1097.811	1211.063	1.11297	0.10986	1.11297	1219.964	1356.559
0.49037	0.86021	256.0996	226.8062	-1.26277	0.14792	0.79191	312.49	249.27
0.09657	1.11536	4065.794	4535.592	-1.07154	0.09824	0.93324	4047.821	3777.974
0.00607	0.70112	914.4673	635.0668	-1.00222	0.9829	0.99779	748.6602	750.5803
0.56572	0.88188	241.8924	216.5787	-1.14217	0.57362	0.87553	182.9832	158.8921
0.11123	0.44806	103.7485	46.50148	1	1	1	21.53574	29.90823
0.47256	1.04291	1933.59	2016.124	1.27404	0.00022	1.27404	2044.89	2604.443
0.41527	0.90566	1185.365	1085.212	-1.48992	1.09E-09	0.67118	982.2667	659.7791
0.63996	1.08262	190.5484	206.9628	-1.01254	0.94961	0.98761	213.9423	209.6706
0.03707	0.79615	701.668	554.2582	1.45238	1.07E-06	1.45238	561.8165	817.3812
0.98512	0.99495	126.4592	126.098	-1.00793	0.98703	0.99213	84.06443	81.9781
0.47745	1.05698	1357.157	1431.115	-1.1593	0.06237	0.86259	1489.688	1290.48
0.40729	1.05994	2154.794	2273.748	1.08393	0.1153	1.08393	2282.381	2477.917
0.92497	0.9961	4041.199	4026.132	1.00904	0.83791	1.00904	4204.2	4240.854
0.14065	1.12014	5843.327	6390.158	1.04431	0.35463	1.04431	8149.979	8500.636
0.08493	0.7637	371.871	279.7983	1.23916	0.12101	1.23916	284.4561	354.1509
0.41069	1.17146	179.023	207.7627	1.1073	0.66911	1.1073	143.8157	158.6795
0.00499	1.19229	4285.131	5122.29	-1.27585	0.00547	0.78379	5638.984	4405.442
0.56224	0.90104	398.7786	349.7983	1.14674	0.26362	1.14674	427.5974	493.7703
0.70094	0.93281	533.6032	486.6451	1.30167	0.03893	1.30167	451.94	592.5261
0.0569	1.12529	880.7332	992.5912	2.0698	6.67E-16	2.0698	898.9271	1860.552
0.73854	0.96277	1124.281	1089.379	-1.24641	0.0025	0.80231	1005.641	805.6528
0.75268	1.02937	865.5809	897.9175	-1.17566	0.11244	0.85058	870.5247	736.3949
0.23815	0.94402	2045.684	1931.523	1.36088	2.87E-09	1.36088	1769.274	2407.976
1	1	18.93763	23.68489	1	1	1	18.49857	30.39495
0.67827	1.13021	125.8714	140.1199	1.31568	0.34277	1.31568	114.192	150.0372
0.78019	1.09668	154.8858	163.7627	1.40774	0.11396	1.40774	129.4924	182.2912
0.32546	1.06006	4084.789	4321.122	1.14757	0.01116	1.14757	4163.772	4769.755
0.01737	0.72388	4851.908	3463.782	1.35671	0.0042	1.35671	3346.784	4591.515
0.77679	0.92803	232.3342	221.5464	-1.00042	0.99832	0.99958	196.9793	197.4063
0.46255	1.08925	398.2183	430.472	1.06573	0.48951	1.06573	367.5558	391.7001
0.0531	0.77946	811.661	625.041	1.07803	0.35047	1.07803	620.21	669.9181
0.22909	0.918	2669.693	2455.562	1.09993	0.30694	1.09993	2426.798	2671.08
0.15446	0.85566	1416.769	1206.11	1.32612	0.00027	1.32612	1269.437	1688.871
0.88511	1.0294	137.8088	141.8768	1.78001	0.00866	1.78001	133.8564	237.1433
0.83381	1.02277	317.1479	324.2355	-1.15551	0.07089	0.86542	791.4036	683.4257
0.00207	0.83225	15607.47	12954.64	1.08264	0.48362	1.08264	20045.16	21701.63
0.81107	1.03435	1765.035	1812.153	-1.08133	0.36519	0.92478	1500.629	1391.789
0.33381	0.8772	312.7846	275.5577	2.21788	1.24E-14	2.21788	253.6916	563.2548
0.00025	1.2701	1267.294	1613.161	1.70575	2.96E-18	1.70575	1609.466	2753.811
0.37059	0.81523	279.1909	219.6708	1.16679	0.33816	1.16679	211.506	246.5656
0.1151	1.06986	5079.643	5437.95	1.01212	0.81817	1.01212	4951.896	5004.763

0.41359	1.0675	1472.843	1582.396	-1.14329	0.10115	0.87467	1562.555	1362.492
0.74026	0.96841	1149.891	1131.639	1.0393	0.62674	1.0393	1200.761	1243.342
0.95615	0.99498	395.5074	393.0968	-1.01091	0.90712	0.98921	437.0714	432.9988
0.64745	0.95727	483.4701	461.6747	-1.17036	0.16484	0.85444	485.9409	417.0504
0.88588	0.97921	348.0922	338.2348	-1.25142	0.06205	0.79909	310.3533	248.1653
0.46198	0.95448	2518.838	2400.768	1.03755	0.59045	1.03755	2402.266	2494.065
0.23871	0.86896	2707.683	2350.44	1.23023	0.0145	1.23023	2265.592	2796.938
0.372	0.93926	1413.166	1327.927	1.4438	0.00015	1.4438	1257.969	1822.167
0.29262	1.2865	227.1291	278.0251	2.48214	3.42E-14	2.48214	210.4091	521.2747
0.62884	1.04448	332.353	347.2347	1.1506	0.18294	1.1506	314.4395	361.696
0.02384	1.25994	41005.7	51453.56	-1.47159	7.21E-06	0.67954	47922.3	32480.89
0.01822	0.78469	548.9271	433.1316	-1.10912	0.39761	0.90162	433.7869	388.8172
0.91746	1.14238	18.46416	24.86377	1	1	1	19.59523	31.00865
0.85948	0.98597	758.0837	744.6113	1.03447	0.54812	1.03447	1410.157	1459.21
0.91349	0.99052	464.9799	459.2871	-1.02696	0.81739	0.97375	504.3898	488.5027
0.71344	1.11023	126.891	142.8969	1.21716	0.61582	1.21716	114.9046	135.1247
0.00205	0.76499	2956.772	2240.388	-1.00072	0.99394	0.99928	2495.576	2506.474
0.00004	0.72137	5612.821	4073.229	-1.21494	0.02023	0.82309	6635.674	5435.118
0.82892	0.98254	788.256	776.9222	-1.10584	0.32523	0.90429	607.2869	551.5722
0.08585	0.863	8110.159	6989.277	1.39605	7.77E-09	1.39605	6568.276	9169.557
0.83589	0.96451	281.0937	267.4742	1.21458	0.02364	1.21458	453.1649	550.7379
0.13317	0.91266	3249.197	2969.496	4.37115	4.05E-41	4.37115	3349.025	14717.12
0.28841	1.06422	2046.201	2179.018	1.21613	0.04722	1.21613	2176.466	2643.46
0.88001	1.02213	1891.992	1970.978	-1.65733	1.05E-09	0.60338	1293.14	782.0109
1	1	18.88852	22.74752	1	1	1	17.76966	30.86773
0.28315	0.90796	1399.504	1272.818	-1.06692	0.45726	0.93728	1205.545	1128.695
0.95308	0.97919	128.2137	130.4834	-1.68602	0.33658	0.59311	98.13486	57.96193
0.72107	1.01635	7209.755	7320.979	-1.00484	0.92796	0.99518	7304.097	7247.424
0.0411	1.14462	773.4077	886.8467	1.14521	0.05607	1.14521	838.2801	958.0697
0.94047	0.97302	134.7314	140.2479	1.48621	0.15558	1.48621	141.7041	213.6041
0.49054	0.93988	1037.903	980.9658	-1.18658	0.02478	0.84276	840.2865	709.2969
0.00059	0.79767	3810.96	3033.063	1.26508	9.01E-06	1.26508	2949.912	3735.269
0.13711	1.14461	477.3949	544.3207	1.11465	0.15623	1.11465	488.358	544.618
0.75435	1.06982	180.7005	193.1174	-1.00264	0.98572	0.99736	406.4318	406.7471
0.18918	0.81286	836.5765	683.3106	-1.56636	1.44E-10	0.63842	820.9669	524.4552
0.82257	1.01253	1006.611	1020.198	1.02117	0.78491	1.02117	1036.995	1062.131
0.75977	0.94024	28018.07	26672.81	-1.85145	1.01E-11	0.54012	29757.04	16136.85
0.10619	0.77474	1405.643	1079.944	1.0682	0.59922	1.0682	1169.75	1258.376
0.00697	0.52735	1043.55	523.8747	-1.30673	0.1365	0.76527	726.0001	561.0845
0.07208	1.17664	674.6368	790.2614	1.38393	0.00014	1.38393	636.8995	879.2536
0.00443	1.14549	14490.13	16580.52	1.55831	0.00383	1.55831	14603.83	23264.9
0.40892	0.91997	1605.736	1501.77	-1.40697	0.00238	0.71075	1185.829	843.0136
0.50001	1.05189	2438.826	2541.039	-1.08345	0.15433	0.92298	3828.565	3539.707
0.0034	1.22184	533.0079	650.5409	1.2755	0.04678	1.2755	551.6359	698.8607
0.5318	0.9458	2975.417	2850.23	-1.14108	0.03126	0.87637	2729.032	2380.878
0.02065	0.66411	1495.313	974.6091	1.43559	0.00086	1.43559	1149.489	1658.447
0.15752	1.13646	360.0288	409.4424	1.07685	0.48649	1.07685	428.1124	462.5756
0.83165	1.00924	2377.738	2400.571	1.02122	0.70203	1.02122	2341.035	2388.203
0.00728	0.70354	926.3309	644.5436	1.53548	0.00003	1.53548	698.2404	1079.044
0.4346	0.87548	7780.775	6888.743	-1.65176	4.63E-08	0.60542	6559.504	3959.585
0.03844	0.73309	285.5249	208.7597	-1.68658	0.00615	0.59292	306.6809	182.9511
0.12137	1.15532	337.4104	390.4001	1.16423	0.30044	1.16423	393.5543	457.9374

0.83623	0.96675	537.7347	528.4645	-2.02161	4.59E-06	0.49466	366.6796	182.0632
0.6936	1.20694	66.90133	80.95242	1.2904	0.5713	1.2904	72.51921	93.51517
0.14231	1.17005	6865.997	8032.325	-2.69693	9.93E-18	0.37079	7935.165	2922.497
0.92048	0.99434	1937.633	1937.512	-1.11924	0.04149	0.89347	2144.677	1914.067
0.93706	0.98999	943.9219	941.8251	-1.33986	4.84E-06	0.74635	1020.725	761.3389
0.78472	0.95581	348.1551	339.3594	-1.0331	0.85338	0.96796	266.1622	255.2166
0.56642	0.97073	2159.615	2097.356	1.09311	0.16603	1.09311	2216.02	2419.465
0.01056	0.86966	1236.544	1074.916	-1.08982	0.11032	0.91758	1117.111	1024.48
0.32413	1.07174	754.9895	807.3668	1.11664	0.07509	1.11664	808.9089	902.442
0.60692	1.06683	334.4377	355.2004	1.00287	0.98383	1.00287	373.8153	376.2212
0.4908	1.06132	1461.733	1560.33	-1.04708	0.60556	0.95503	1194.499	1142.406
0.86717	0.98951	695.5277	688.5674	-1.02579	0.73297	0.97486	683.6401	665.6901
0.09553	0.91398	1013.252	926.3621	-1.20901	0.00411	0.82712	965.3367	797.9253
0.00477	0.7275	3096.143	2230.313	-1.07979	0.29694	0.92611	2343.308	2181.02
0.38495	1.04573	5581.969	5842.847	-1.39118	2.54E-08	0.71882	5991.146	4290.951
0.1933	1.09236	5400.577	5920.538	-1.05804	0.48494	0.94515	6430.226	6084.626
0.00993	0.75302	929.0941	692.6969	1.01812	0.83103	1.01812	723.4373	738.6555
0.77176	1.01906	1818.198	1841.214	-1.08115	0.13428	0.92494	1698.08	1572.413
0.51757	1.03643	3196.473	3311.991	1.41509	0.00004	1.41509	3173.139	4478.897
0.46888	1.04237	6110.532	6356.957	-1.07137	0.18625	0.93338	5986.143	5601.925
0.05303	0.76613	699.9496	528.9901	-1.05951	0.4876	0.94383	638.9341	604.3507
0.31879	1.12154	364.0072	409.885	1.22813	0.0387	1.22813	380.4074	466.3515
0.79768	0.96083	341.494	326.1807	1.07571	0.57882	1.07571	298.1489	321.7199
0.99945	0.99964	97.19678	88.47203	1.42495	0.29914	1.42495	117.3839	166.8536
0.32286	1.10389	2257.469	2501.798	-2.36369	0	0.42307	2553.501	1079.247
0.53669	1.0358	893.6345	924.9743	1.01336	0.84446	1.01336	943.5393	958.0184
0.81102	1.01004	3112.448	3143.203	-1.03921	0.37666	0.96227	3031.598	2917.366
0.98195	0.99731	513.4703	517.0352	1.75157	0.00018	1.75157	412.4218	716.9271
0.63752	0.92405	202.1546	187.6118	-1.03261	0.87331	0.96842	165.4444	160.1284
0.62422	0.88793	122.3226	108.6801	-1.24949	0.49694	0.80032	129.7241	103.6314
0.42886	0.95623	1230.317	1175.813	-1.03084	0.76195	0.97009	1078.802	1050.036
0.34632	0.83384	730.3164	594.8062	1.45655	0.00335	1.45655	571.7963	840.4399
0.86577	0.97768	414.4204	399.9408	-1.01605	0.83193	0.98421	570.4491	561.8702
0.72388	0.88687	117.3998	106.1497	-1.51123	0.51357	0.66171	84.37943	54.0228
0.00778	0.65083	1262.562	809.946	1.11941	0.19233	1.11941	856.0647	962.3027
0.82467	1.01741	1038.259	1051.193	1.07305	0.41055	1.07305	1065.937	1148.326
0.59903	1.05098	2385.085	2502.65	1.02294	0.75309	1.02294	1936.376	1990.303
0.37518	1.14778	270.3798	309.9998	1.07597	0.52566	1.07597	349.4884	375.0721
0.96947	0.99779	1165.571	1165.64	-1.1509	0.09869	0.86888	1129.374	975.7723
0.79059	0.69337	35.35753	27.9606	1.04956	0.93171	1.04956	81.11868	89.31354
0.0007	0.63284	1075.912	674.9367	-1.16336	0.01823	0.85958	829.3212	712.2351
0.81613	0.98139	2007.376	1969.707	1.43715	1.49E-07	1.43715	1768.818	2545.968
0.00078	0.75212	907.2053	679.737	-1.06971	0.57489	0.93484	838.1529	787.5617
0.10244	0.91746	123164.9	113026.6	-1.02661	0.62232	0.97408	142543.6	138700.8
0.553	0.96385	724.0494	698.7027	-1.08813	0.21635	0.919	820.8505	753.2929
0.598	0.87427	173.5384	149.8736	-1.12355	0.5975	0.89004	213.8855	191.3816
0.01636	1.20462	1156.198	1401.853	-1.02578	0.77252	0.97487	1491.481	1458.803
0.11821	1.18519	12129.69	14462.61	1.98875	1.76E-10	1.98875	11365.3	22755.65
0.30183	0.90366	1463.022	1313.155	-1.14353	0.08945	0.87449	1353.039	1184.908
0.00498	0.72252	9981.85	7227.572	-1.07069	0.45312	0.93398	8480.316	7915.255
0.51458	1.14183	194.8701	222.8489	1.23507	0.22878	1.23507	252.8857	310.7723
5.65E-11	0.69211	1811.174	1252.467	-1.05972	0.43039	0.94365	1475.48	1388.942

0.06685	1.31085	324.2217	420.785	1.97816	2.61E-10	1.97816	247.9576	491.2289
0.61258	1.07067	303.4648	322.4055	1.56368	0.00056	1.56368	295.5383	462.2681
0.1311	1.07773	5916.159	6389.315	-1.24705	0.00001	0.80189	3802.124	3062.14
0.27946	0.85901	637.6059	554.1538	-1.55626	1.92E-06	0.64257	507.1066	326.1353
0.79039	1.02507	2660.608	2739.576	1.7742	1.03E-17	1.7742	2713.98	4805.437
0.88002	1.03132	178.3709	185.8417	-1.16247	0.56061	0.86024	212.2181	179.9142
0.36905	1.07546	2626.682	2805.727	-1.00958	0.85981	0.99051	2998.982	2976.136
0.06465	1.10564	858.5809	949.5996	-1.1426	0.14425	0.8752	926.5505	814.3747
0.94597	1.01226	394.5866	388.9936	1.67353	2.43E-09	1.67353	403.0148	673.6509
0.29472	0.86299	720.3596	613.8459	1.38312	0.00016	1.38312	597.2737	828.6978
0.00017	0.6841	2333.092	1591.208	-1.01057	0.86191	0.98954	2259.179	2232.768
0.96535	0.9859	94.48374	93.10591	1.29126	0.63669	1.29126	73.2628	98.37532
0.1017	0.91555	1533.653	1404.771	1.18333	0.00395	1.18333	1329.28	1572.546
0.96718	0.99676	1340.358	1338.215	1.38336	6.58E-10	1.38336	1159.841	1603.753
2.22E-06	0.78294	3175.267	2487.24	1.08223	0.08359	1.08223	2830.779	3063.591
0.30837	0.91059	4742.114	4333.563	1.03305	0.4532	1.03305	3767.568	3891.78
0.91886	1.01853	222.9813	224.5328	1.02692	0.89374	1.02692	199.6637	203.7408
0.88043	1.07517	76.01013	79.50194	1.24675	0.57683	1.24675	85.33504	106.5671
0.58377	1.04057	921.1945	954.7814	-1.088	0.28609	0.91911	973.0344	896.577
0.86032	1.03127	622.2352	653.32	-1.5849	0.05963	0.63096	461.976	291.4861
0.33874	1.11981	2964.777	3341.116	-1.69327	2.63E-08	0.59057	3847.451	2250.157
0.47617	0.95134	2310.942	2196.081	1.52262	0.00002	1.52262	2025.709	3086.332
0.95253	1.07985	21.16481	26.1617	1	1	1	22.45348	30.89499
0.77884	0.98388	872.0032	857.5742	1.39335	0.00007	1.39335	815.8273	1135.631
0.07872	1.16552	411.1363	480.3179	1.05352	0.63019	1.05352	443.7435	466.291
0.04837	1.18072	1002.987	1179.765	1.15033	0.02557	1.15033	1123.3	1294.454
0.00002	1.21264	1734.09	2102.833	1.48427	0.00078	1.48427	1762.102	2641.415
0.00938	0.89249	4889.662	4365.264	-1.01723	0.83374	0.98307	3995.204	3927.784
0.06228	1.28464	568.2113	723.4307	2.02668	7.29E-11	2.02668	561.8418	1136.793
0.28124	0.94629	1696.945	1604.579	-1.08149	0.20992	0.92465	1497.456	1379.889
0.28886	1.36476	134.0851	178.2781	2.368	0.0004	2.368	118.9333	283.2097
0.35382	1.06231	1784.946	1902.476	-1.6535	1.80E-22	0.60478	1948.044	1177.862
0.07425	0.72321	370.2107	261.6385	1.07716	0.66186	1.07716	246.5001	264.7943
0.8255	1.01072	6269.479	6332.159	1.00233	0.97314	1.00233	6089.418	6110.866
0.4167	1.07881	1830.292	1974.504	1.02494	0.76303	1.02494	1594.482	1646.102
2.77E-23	1.78167	2684.088	4796.211	1.80838	5.16E-29	1.80838	2811.563	5093.597
0.75483	1.03241	1193.889	1247.404	-1.19177	0.01599	0.83909	1253.898	1052.057
0.22389	0.89635	465.804	418.6789	-1.08996	0.5811	0.91747	424.0577	383.8716
0.95237	0.9906	636.7599	621.2122	1.75391	1.11E-14	1.75391	518.6505	910.8303
0.41678	0.94365	58151	54801.28	-1.15883	0.00043	0.86294	60294.65	52017.14
0.01129	1.13641	5173.547	5885.858	1.97104	1.12E-44	1.97104	4371.714	8617.999
0.94815	0.99371	706.1214	705.1648	1.27285	0.00124	1.27285	596.871	758.6617
0.00035	0.60673	17577.18	10662.69	2.76395	1.74E-27	2.76395	10846.89	30350.29
0.94308	1.0048	665.8488	668.5142	-1.13394	0.05198	0.88188	652.4354	575.2981
0.00299	0.84544	1788.715	1514.075	1.23769	0.00038	1.23769	1540.517	1906.574
0.86196	0.98561	930.3763	920.2207	-1.2126	0.00727	0.82467	721.0706	595.3104
0.66041	1.02811	1043.297	1074.659	2.17773	0	2.17773	989.8201	2155.698
0.05257	0.74056	331.0803	242.3732	-1.21498	0.21572	0.82306	273.4492	224.9941
0.92257	0.9803	251.8877	251.5366	-1.11844	0.67424	0.8941	179.7876	159.7018
0.99627	1.00048	515.3677	517.4542	-1.12417	0.27687	0.88955	429.5868	381.6013
0.89455	1.0147	4618.381	4708.543	1.10055	0.30862	1.10055	4161.749	4571.11
1	1	19.55704	21.29343	1.5288	0.79524	1.5288	17.71555	37.41236

0.90585	1.06572	66.22564	71.03841	-1.18936	0.709	0.84078	98.95708	84.72061
0.51221	1.09824	671.1433	747.4409	-2.05243	7.74E-07	0.48723	617.2268	297.3446
0.78099	0.96206	288.3774	279.1751	-1.27221	0.11751	0.78603	251.42	197.894
0.60968	1.03277	5262.055	5456.227	-1.6518	2.57E-12	0.6054	5025.361	3043.815
0.00065	0.53904	3900.76	2069.8	-1.0424	0.66531	0.95932	2784.849	2689.956
0.76253	1.04488	3628.116	3723.167	1.00815	0.93335	1.00815	4030.645	4102.224
0.20587	0.89979	648.4723	581.4141	1.39229	1.47E-07	1.39229	604.3739	841.6737
0.01136	1.1223	5107.718	5731.688	1.174	0.01613	1.174	5817.424	6817.187
0.11567	0.81725	534.7437	432.2561	1.5549	9.33E-10	1.5549	429.4431	667.5867
0.49503	0.76662	120.6518	89.77559	-1.0648	0.80834	0.93914	162.3832	151.081
0.84378	1.03533	195.8612	202.9383	-1.01986	0.93137	0.98052	170.1284	165.8225
4.20E-07	0.52549	3159.607	1660.355	-1.26588	0.02625	0.78997	2631.79	2081.712
0.23216	0.91618	2195.445	2020.599	-1.04247	0.47134	0.95926	1994.658	1911.117
0.53284	0.92486	660.6397	616.8579	-1.11994	0.15814	0.8929	565.7131	505.6746
0.35844	0.83153	367.3633	298.2045	1.52071	0.04876	1.52071	308.5172	476.1443
0.05963	0.78341	2101.301	1642.492	1.1291	0.24717	1.1291	1805.211	2038.782
0.61716	0.8823	138.8133	122.2075	1.04842	0.90277	1.04842	129.1417	131.3963
0.8086	1.04228	274.8925	283.2245	1.5192	0.01151	1.5192	242.9863	372.9742
0.49043	0.91075	679.6812	625.3571	-2.46875	3.67E-16	0.40506	672.9358	272.9126
0.00858	0.80616	819.165	662.5862	1.04182	0.51653	1.04182	813.0187	847.8745
0.26622	0.92595	1971.859	1826.422	1.03651	0.43637	1.03651	1593.504	1651.724
0.76542	0.94488	275.085	267.2365	1.57967	0.00001	1.57967	443.5883	698.0303
0.7962	1.06582	169.8315	181.5633	-1.33007	0.55002	0.75184	113.8519	86.9577
0.96022	1.0061	684.6026	695.5175	1.01706	0.87667	1.01706	623.6794	631.8165
0.52194	1.07531	579.1027	627.7998	-1.13707	0.08852	0.87945	589.8538	518.5883
0.79704	0.9617	1982.05	1884.495	-2.21025	1.84E-29	0.45244	2084.869	940.8534
0.95352	0.95546	36.80098	35.1588	1.26306	0.82652	1.26306	36.7188	52.49283
0.13122	0.86427	1977.049	1708.709	1.17365	0.00688	1.17365	1667.515	1955.404
0.04941	0.81703	806.8624	655.3793	1.5635	1.32E-12	1.5635	629.0029	983.0557
0.43074	1.20842	183.5498	215.2882	1.68696	0.0016	1.68696	173.9195	294.3474
0.60345	0.85582	109.6124	93.70284	1.0224	0.92133	1.0224	144.4409	147.5147
0.01049	0.73858	22770.36	16752.47	1.08728	0.25484	1.08728	19802.7	21511.5
0.10596	1.10218	841.7186	928.9055	1.07935	0.17387	1.07935	911.4275	983.3336
0.02244	0.77499	1067.854	821.9894	-1.16818	0.1553	0.85603	914.4559	786.0097
0.33442	1.14628	294.0063	334.5632	-1.13548	0.12779	0.88069	544.292	479.8863
0.82833	1.06099	104.1184	110.2037	1.35756	0.50872	1.35756	78.14814	103.9087
0.76057	1.04823	261.9989	271.9918	1.1379	0.3883	1.1379	257.0342	293.8279
0.87139	0.98973	907.7961	897.9152	-1.1057	0.41424	0.9044	911.2694	830.5892
0.20153	1.0666	4877.736	5187.58	1.02398	0.57684	1.02398	5008.546	5126.214
0.56261	1.03043	1155.747	1192.042	1.12754	0.04006	1.12754	1981.969	2227.503
4.36E-08	0.75415	2316.012	1746.798	-1.14288	0.14961	0.87498	1913.481	1671.839
0.68351	1.02505	943.6003	966.5781	1.31999	3.76E-07	1.31999	872.7742	1152.062
0.89955	1.00678	4113.647	4138.671	-1.00632	0.90022	0.99372	4506.604	4485.354
0.61956	1.03751	495.59	513.9797	1.43097	0.00074	1.43097	502.4839	716.3174
0.9052	0.99045	1286.078	1267.008	-1.07737	0.13256	0.92818	1339.866	1244.09
0.16409	0.81146	343.5762	275.4883	-1.14103	0.20517	0.8764	490.2298	428.2555
2.30E-08	0.6826	2211.857	1510.031	-1.64415	1.81E-15	0.60822	1553.447	946.282
1	1	19.76733	25.02705	1	1	1	17.717	32.5042
0.08744	1.11857	5434.249	6097.434	-1.43459	0.00027	0.69706	6634.557	4596.858
0.18497	1.06867	1632.459	1745.718	-1.15912	0.02103	0.86272	1935.121	1666.06
0.14442	1.06844	4484.229	4797.407	1.03117	0.55967	1.03117	4220.017	4342.131
0.02868	0.85808	628.0469	539.4419	1.0348	0.77413	1.0348	586.8118	603.9122

0.34375	1.05105	1762.269	1857.024	-1.03238	0.65917	0.96864	1715.495	1654.921
0.01982	1.34045	329.9692	446.3923	1.30015	0.18831	1.30015	410.7461	541.2416
0.00143	0.71289	413.412	293.8828	1.45882	0.00108	1.45882	321.9209	467.9456
0.96029	0.99649	1284.283	1283.584	-1.04617	0.59188	0.95586	1264.865	1208.881
0.24154	1.08869	3680.044	3993.665	-1.19236	0.25571	0.83867	3306.746	2721.942
0.29669	0.92616	590.0278	545.9428	1.08129	0.49824	1.08129	458.0289	498.2471
1	1	18.52823	21.71162	1.0764	0.94786	1.0764	31.9294	35.49077
0.00374	0.75262	1212.818	909.0084	1.62491	3.05E-11	1.62491	971.8424	1584.048
0.804	0.98002	611.7835	597.6459	-1.03744	0.68791	0.96391	609.2415	588.4174
0.27963	1.15283	374.8209	428.0646	1.02435	0.78172	1.02435	415.0624	425.0218
0.04075	0.90528	2823.033	2560.153	-1.07006	0.38868	0.93453	2613.195	2423.614
1	1	17.97316	22.35844	1.62601	0.71332	1.62601	24.11094	37.53866
0.2989	1.05659	3791.995	3983.856	1.0396	0.38505	1.0396	6005.514	6248.284
0.89071	0.9775	456.2806	451.924	-1.72484	0.00015	0.57976	404.8964	234.3708
0.3925	1.08504	603.6509	655.7605	-1.10942	0.14057	0.90137	922.0628	832.6465
0.04369	0.86079	19870.52	17098.03	1.18983	0.01742	1.18983	19716.45	23511.04
0.69596	1.05982	538.7968	579.3385	1.06012	0.49369	1.06012	498.3345	528.9152
0.99545	1.00049	443.0251	444.22	1.04862	0.61893	1.04862	449.8333	472.7424
0.12021	0.82045	28951.34	23781.48	-1.27933	0.00539	0.78166	25599.23	19959.2
0.34155	0.95832	7498.647	7186.302	1.54001	4.14E-23	1.54001	7021.394	10813.73
1	1	17.67187	23.05087	1	1	1	16.65954	32.95481
0.47147	1.05927	704.6996	749.3086	1.10185	0.26667	1.10185	663.2862	728.7252
0.00649	0.80855	748.4699	606.9389	1.18992	0.05648	1.18992	635.6677	754.0039
0.34825	0.95788	117057.3	112147.4	-1.09083	0.11631	0.91673	124333.2	113980.1
0.00166	0.81139	2054.647	1665.679	1.11061	0.26597	1.11061	1912.344	2128.67
0.13378	1.11701	4675.131	5227.921	-1.0143	0.84412	0.98591	5559.974	5481.128
0.39223	0.91952	924.0994	846.5667	1.34093	0.00024	1.34093	798.8369	1068.788
0.96468	1.00367	1660.765	1682.029	-1.07301	0.4387	0.93196	1597.208	1479.438
0.35709	0.92907	2205.823	2050.482	-1.01861	0.79377	0.98173	2328.764	2285.62
0.7776	1.09429	97.86531	107.4054	1.01152	0.97778	1.01152	91.19235	91.78973
0.26149	0.95555	11896.96	11367.82	1.01356	0.78399	1.01356	10939.23	11086.89
0.46317	0.95934	971.9985	933.6296	-1.06437	0.28027	0.93952	1108.77	1041.172
0.2817	1.10571	712.3812	783.5966	-1.04641	0.62684	0.95565	743.77	713.0841
0.59713	0.88603	160.9778	141.4459	-1.01002	0.96825	0.99008	153.9568	152.1114
0.77156	0.93475	180.458	170.5252	-1.16481	0.57535	0.85851	162.9012	140.3065
0.02761	1.09746	2546.007	2794.517	-1.06139	0.34137	0.94216	2877.18	2702.032
0.01474	0.73332	566.4059	410.5552	1.24056	0.02897	1.24056	463.7914	577.2709
0.11801	0.84837	410.0302	346.5017	1.42117	0.00838	1.42117	309.5272	437.0252
0.00249	0.79144	2750.308	2178.644	1.18538	0.00073	1.18538	2312.094	2740.874
0.02077	1.19574	641.0185	768.0861	1.25422	0.00141	1.25422	1216.261	1524.072
0.0135	1.27734	886.1636	1133.229	1.98802	3.42E-32	1.98802	786.4016	1562.604
0.6864	1.04798	3652.079	3888.281	2.01454	6.41E-28	2.01454	2847.471	5757.007
0.73652	0.90827	17080.39	14586.29	-6.8635	0	0.1457	16476.05	2397.185
0.01386	0.89369	2060.675	1841.997	1.14909	0.18057	1.14909	1802.641	2061.63
0.56261	0.94108	3878.845	3659.705	1.87442	1.03E-18	1.87442	3458.165	6483.834
0.43041	0.91445	848.4517	770.5474	1.31586	0.00015	1.31586	739.1275	974.1328
0.04109	0.64843	1359.775	859.8453	1.2276	0.17392	1.2276	1024.731	1280.771
0.43925	0.96461	2127.136	2051.52	1.04923	0.36651	1.04923	3764.348	3945.904
0.1542	1.06496	37803.55	40279.24	1.70261	8.20E-15	1.70261	41585.69	71044.24
0.50035	0.91443	518.8041	479.7966	-1.05432	0.69114	0.94848	507.329	477.2505
0.86244	0.97965	742.7318	734.8817	-1.63926	0.0005	0.61003	536.1527	329.0996
0.27243	0.90394	682.3322	613.7095	1.27067	0.0028	1.27067	632.5203	805.6694

1.30E-06	0.72775	71731.8	52335.93	-1.46769	4.05E-09	0.68134	82442.52	56050.17
0.02977	1.09661	8737.389	9582.632	1.03464	0.61676	1.03464	9789.697	10097.25
0.66171	0.95853	481.2653	463.2122	-1.06768	0.49164	0.93661	511.9363	478.2089
0.0003	0.82152	1734.249	1425.154	-1.05974	0.35187	0.94362	1577.938	1489.249
0.71916	0.96373	1861.275	1788.113	-1.50224	0.00004	0.66567	1691.884	1124.47
0.94732	1.0262	102.2079	104.7879	1.20409	0.4183	1.20409	133.0468	160.1157
0.73449	0.93664	248.6915	237.5773	-1.81269	0.00662	0.55166	206.7021	114.299
0.33622	1.05661	3501.201	3713.598	-1.04301	0.53071	0.95877	3820.833	3665.802
0.02951	1.07467	2735.561	2939.515	1.8747	1.45E-21	1.8747	2613.557	4910.939
0.85034	1.0139	1078.997	1092.21	-2.16643	4.68E-13	0.46159	993.051	459.7855
0.92575	0.9888	323.4928	318.3648	1.04399	0.80116	1.04399	298.1966	308.3055
0.42695	1.06824	2084.864	2248.029	1.01201	0.88335	1.01201	2243.998	2262.567
0.70915	0.87326	92.22424	81.27997	1.44726	0.41354	1.44726	68.60784	98.29495
0.32291	0.93472	922.2972	863.5772	1.94413	7.44E-17	1.94413	771.3123	1498.21
0.7451	0.95131	214.235	203.248	-1.08738	0.67344	0.91964	204.0037	187.6363
0.76688	1.03912	250.1483	259.5002	-1.01197	0.93338	0.98818	252.7345	249.748
0.03276	0.77364	824.3337	631.5734	1.28163	0.03315	1.28163	640.1419	826.3735
0.42645	0.79668	2305.506	1686.428	-4.85879	1.07E-18	0.20581	2101.78	432.5728
0.66247	1.01937	1773.298	1807.734	1.34973	0.00077	1.34973	1606.4	2165.802
8.49E-06	0.60462	2775.286	1661.188	-1.29632	0.00002	0.77141	2005.184	1546.472
0.53036	1.06117	745.7024	786.2761	1.03017	0.64339	1.03017	787.1639	811.7384
0.00389	0.65266	291.4935	189.3761	2.56276	1.02E-12	2.56276	269.9548	688.6715
0.03739	1.09132	4052.858	4421.72	1.06425	0.39993	1.06425	6712.9	7107.165
0.29984	1.10487	463.8317	510.2544	1.09256	0.50826	1.09256	449.9973	488.6677
0.88208	0.95126	112.4246	105.3092	1.09985	0.77902	1.09985	118.9795	128.9269
0.30645	0.83199	268.2955	226.7085	-2.00778	0.00598	0.49806	195.9	97.76377
0.9418	1.00619	761.3897	769.8969	-1.12208	0.06212	0.8912	800.0016	712.6591
0.78587	0.97887	671.3765	656.6782	-1.02106	0.73149	0.97937	888.715	871.1455
0.19975	0.91911	2148.141	1978.232	-1.34593	0.00014	0.74298	1982.761	1472.95
0.74358	1.02358	686.4482	704.3413	1.12178	0.23201	1.12178	646.2704	722.2831
0.93713	0.99137	339.2746	337.1532	-1.08309	0.45158	0.92328	597.6853	549.0676
0.05911	1.18026	566.7794	666.374	1.1496	0.11406	1.1496	570.5643	654.1911
0.88325	0.97537	242.3498	236.0728	1.05262	0.66864	1.05262	343.1564	361.6936
0.92856	0.98985	321.3649	317.9114	-1.01687	0.91286	0.98341	296.4904	293.1852
0.77895	1.02604	1181.14	1220.372	-1.05077	0.33079	0.95169	1134.48	1079.386
0.37035	1.04644	6803.388	7140.959	-1.09105	0.14729	0.91655	6708.336	6109.213
0.0028	0.69831	3837.955	2672.709	-1.16309	0.12379	0.85978	3061.903	2649.007
0.80966	0.98717	3991.284	3952.698	-1.12123	0.0515	0.89188	3822.835	3407.996
0.96983	0.99048	206.1596	199.9438	1.14237	0.56114	1.14237	189.5731	217.3032
0.68624	1.0825	165.9247	180.0567	-1.11918	0.5892	0.89352	185.8097	166.0682
0.55536	1.05454	2658.261	2810.122	-1.62505	1.69E-06	0.61536	2597.77	1594.799
0.24958	0.88525	1797.862	1581.948	1.11221	0.24517	1.11221	1675.75	1861.036
0.44921	1.09726	940.4723	1030.752	1.87577	1.08E-21	1.87577	898.907	1689.583
0.00283	0.72393	3984.258	2866.805	-1.10519	0.1874	0.90482	3246.691	2947.26
0.3741	0.95044	975.6594	928.1184	-1.11269	0.058	0.89872	918.3735	825.0494
0.0279	0.84897	1394.283	1176.524	1.01604	0.74825	1.01604	1401.243	1424.012
0.97877	0.99801	2659.249	2671.099	-1.04144	0.44372	0.96021	2413.487	2317.022
0.65278	0.96822	3620.785	3523.574	1.73792	4.25E-10	1.73792	3230.256	5610.556
0.1134	1.08238	2508.369	2719.043	-1.06347	0.34107	0.94032	2488.021	2335.105
0.01458	1.19483	12173.54	14521.7	-2.09058	2.72E-16	0.47834	18673.03	8797.701
0.33891	1.10535	1043.446	1162.842	-1.09743	0.19385	0.91122	975.9343	889.8126
0.5907	0.96364	1065.894	1025.881	1.13242	0.06268	1.13242	979.9672	1108.274

0.49863	0.82733	146.3474	119.248	1.57928	0.02071	1.57928	132.1191	208.5448
0.64159	1.04706	561.6527	591.5053	1.09979	0.24327	1.09979	533.4121	585.8345
0.32224	0.80983	290.5429	226.7539	-1.32402	0.00264	0.75527	464.622	350.6555
0.03857	0.88645	7741.345	6877.511	1.14543	0.1482	1.14543	6629.577	7592.296
0.00114	0.77556	4746.205	3661.672	1.44716	1.01E-08	1.44716	4321.363	6252.708
0.84642	1.0221	479.1075	487.236	-1.22954	0.02436	0.81331	511.1212	415.519
0.8308	1.20879	38.83278	45.89729	1.17747	0.81134	1.17747	59.42822	69.19208
8.68E-08	0.6842	1113.058	760.2023	1.20391	0.05019	1.20391	1176.498	1418.162
0.03634	1.13628	1889.502	2144.405	1.79362	1.96E-19	1.79362	1767.919	3169.844
0.59275	1.07341	337.107	358.5966	2.02738	0.00113	2.02738	275.1408	545.3475
0.17453	0.83849	4557.747	3789.101	1.17796	0.12546	1.17796	4069.146	4816.85
0.38759	0.89829	1230.325	1095.328	1.14883	0.13029	1.14883	980.5521	1132.537
0.90785	1.01978	535.2166	545.8018	-1.19236	0.04029	0.83867	2042.911	1732.476
0.00015	0.65959	5245.77	3458.605	-1.17745	0.04166	0.84929	4439.859	3766.582
0.0003	0.50782	755.9022	373.3229	-1.84366	1.25E-07	0.5424	578.9146	315.3132
0.00021	0.70745	1296.252	917.2174	-1.08194	0.22003	0.92426	1410.814	1303.279
0.67326	0.96981	527.4053	510.8236	1.43287	0.00066	1.43287	472.4179	674.4326
0.18186	0.92144	3802.829	3528.722	-1.22136	0.00001	0.81876	3416.802	2799.719
0.85776	0.98845	2358.116	2325.906	1.12211	0.07697	1.12211	2280	2554.7
4.94E-09	0.77369	2148.62	1662.388	1.10311	0.0707	1.10311	1888.791	2085.749
0.01825	0.68384	18117.87	12185.17	-1.19928	0.19021	0.83383	13754.25	11409.5
0.70317	1.041	649.3846	680.8454	-1.05788	0.5341	0.94528	688.162	648.46
0.00216	0.80335	14023.98	11217.44	1.12206	0.20315	1.12206	11003.84	12049.56
0.90402	0.97843	184.1424	180.1664	1.00707	0.97783	1.00707	179.1712	177.7287
0.8393	0.97913	467.5425	459.7982	-1.09596	0.46511	0.91245	392.1722	358.6999
0.02769	0.74605	9117.102	6897.585	-1.07944	0.24319	0.92641	3866.282	3575.96
0.0006	1.14636	3094.986	3553.077	1.29878	3.73E-09	1.29878	2992.769	3885.756
0.69942	1.02007	992.449	1012.294	1.41743	0.00039	1.41743	1003.6	1425.307
0.14901	1.11218	4263.931	4734.575	-1.05236	0.44089	0.95025	4504.115	4289.685
0.70633	1.0333	680.4166	706.3744	-1.02172	0.74155	0.97874	722.9958	707.2003
0.00004	1.21587	2039.412	2480.243	-1.32912	0.00006	0.75238	2246.368	1682.897
0.88808	1.01608	409.0533	418.4996	-1.17475	0.14017	0.85124	342.5112	291.4677
0.00045	0.82363	2550.871	2105.02	1.05615	0.31712	1.05615	2657.36	2812.557
0.02734	0.68357	1704.76	1166.855	-2.10232	0.00002	0.47566	851.9607	406.7343
8.07E-08	0.70875	6449.777	4564.78	1.09351	0.03939	1.09351	4925.359	5386.193
0.20647	0.74833	1212.37	875.0887	-1.17103	0.36916	0.85395	849.2521	731.95
0.60609	1.03351	1196.096	1235.497	-1.05907	0.33781	0.94423	2282.528	2156.51
0.66503	1.02399	1192.995	1221.29	1.1738	0.03805	1.1738	1142.69	1339.306
0.88044	1.18824	31.54116	39.95188	1.08479	0.93392	1.08479	40.96426	42.66143
0.09582	0.90588	15967.28	14558.36	1.44738	1.57E-11	1.44738	18986.37	27545.53
0.37674	0.7415	124.0253	90.68449	-1.86257	0.27961	0.53689	90.35782	48.33656
0.01478	0.77199	13003.22	10084.67	-1.1238	0.15503	0.88984	12279.51	10932.78
0.46092	1.0725	668.9915	713.4348	1.23013	0.00126	1.23013	738.0189	908.0151
0.71434	0.98356	3045.69	2992.449	1.13789	0.00766	1.13789	2857.524	3255.749
0.99765	0.99978	967.5505	965.477	1.41644	3.09E-09	1.41644	881.5626	1248.271
0.7685	0.98557	1500.418	1477.401	1.00218	0.97382	1.00218	1565.374	1563.496
0.91707	1.00573	1334.792	1345.552	-1.01037	0.85476	0.98973	1305.542	1292.167
1.39E-06	0.79454	1935.278	1538.015	1.35226	5.93E-07	1.35226	2093.926	2836.465
0.07711	0.76932	6997.167	5363.276	1.27668	0.00227	1.27668	5376.676	6867.474
0.07964	0.74469	400.6688	303.9556	-2.60454	0.0019	0.38394	442.9863	170.0822
0.34018	0.90313	624.9175	567.7371	-1.09438	0.44832	0.91376	769.1715	697.9642
0.59835	0.92242	1197.206	1101.764	-1.57368	2.87E-08	0.63545	1082.269	688.4975

0.3936	1.08092	1841.475	2000.645	2.17843	1.94E-23	2.17843	1544.437	3371.699
0.00133	0.65937	1462.006	958.096	1.08978	0.39947	1.08978	1154.578	1263.838
0.01275	1.22602	474.0048	582.0945	1.69381	1.24E-12	1.69381	506.79	857.371
1.44E-07	0.67196	512.9724	344.7243	-1.39277	0.00873	0.718	390.7131	280.716
0.84113	1.02512	527.4749	546.0551	-1.01286	0.83373	0.9873	910.802	898.6958
0.33614	1.1595	251.4729	288.7727	1.25062	0.16408	1.25062	240.0277	300.5029
4.40E-06	0.6505	3515.794	2289.219	-2.2193	3.94E-33	0.45059	2936.857	1320.982
0.95251	0.99608	650.1345	647.4552	-1.2187	0.03836	0.82055	590.7698	483.7595
0.36493	1.102	602.3358	660.2778	-1.05648	0.59907	0.94654	899.5845	854.8928
0.37273	0.87415	496.658	426.8478	1.28072	0.00767	1.28072	448.4495	575.7465
0.00006	0.67978	1268.062	860.9601	-1.163	0.156	0.85984	1228.199	1054.604
0.88869	0.91703	56.66296	50.88702	1.28291	0.82275	1.28291	31.58292	46.39878
0.47943	1.04079	1231.14	1281.658	-1.03183	0.7266	0.96915	1088.052	1051.842
0.00909	1.12577	2902.136	3263.364	-1.39214	1.11E-08	0.71832	2486.969	1796.626
0.91183	0.99422	4256.042	4226.938	-1.26959	0.00004	0.78765	4277.885	3370.792
0.26409	1.10389	14989.65	16642.53	-1.05742	0.49369	0.9457	13837.49	13104.48
0.05882	0.79341	10854.12	8594.645	-1.1104	0.2497	0.90058	8604.336	7768.329
0.29703	1.04767	2010.033	2106.272	-1.07489	0.16335	0.93033	2179.129	2024.327
0.05458	1.09253	4514.305	4931.339	1.78771	3.75E-11	1.78771	4402.393	7897.619
0.20635	1.09305	3617.353	3967.487	-1.16752	0.00494	0.85652	5576.224	4760.37
0.39556	1.06718	1583.662	1681.104	-1.13185	0.00672	0.88351	1870.38	1652.933
0.9698	1.00376	1138.899	1133.765	1.05002	0.47891	1.05002	1058.382	1111.76
0.70871	1.02981	2800.753	2899.671	1.48417	5.60E-06	1.48417	2489.871	3698.179
0.47247	0.93483	1597.791	1511.239	-1.08269	0.15919	0.92362	2776.368	2564.937
0.00004	1.23736	12362.93	15265.91	-1.54969	1.08E-17	0.64529	13494.43	8708.793
0.70293	0.93725	198.314	186.1157	-1.004	0.98601	0.99601	183.7665	183.1141
0.63159	1.02959	3811.715	3931.102	1.11298	0.1365	1.11298	4061.466	4536.183
1	1	18.39948	23.61599	1	1	1	17.98298	31.53636
0.27078	1.06894	3571.481	3808.907	1.02335	0.6422	1.02335	3708.516	3796.753
0.78834	0.96267	747.0067	711.6969	1.35162	0.02988	1.35162	637.1289	870.5807
0.00002	0.70687	14025.71	9937.18	1.50003	4.62E-22	1.50003	10482.53	15725.56
0.80205	1.01683	3484.554	3560.188	-1.09879	0.03154	0.91009	3370.683	3067.443
0.96517	1.00217	1400.128	1401.704	-1.05489	0.45094	0.94797	1393.49	1314.393
0.42584	0.80902	288.7263	219.8019	-1.08492	0.65026	0.92173	284.1252	261.0678
0.00005	0.74356	2993.374	2228.633	-1.32917	0.00014	0.75235	2499.58	1876.875
0.00079	0.64552	610.7435	389.6018	-1.17892	0.04567	0.84824	464.8999	394.2593
0.00587	1.13128	4881.251	5520.213	1.4887	8.36E-07	1.4887	4759.144	7097.32
0.05624	0.87538	3357.868	2942.003	1.08907	0.08534	1.08907	2912.232	3171.019
0.9006	1.01478	479.7632	482.903	1.09525	0.41636	1.09525	455.7233	501.1707
0.56544	1.06715	301.2542	320.5222	1.23599	0.08578	1.23599	278.036	344.2355
0.89055	0.99019	1130.296	1118.687	-1.04442	0.4754	0.95747	1053.415	1009.548
0.33931	1.14567	320.5854	365.7157	1.38332	0.01639	1.38332	397.9	546.3158
0.94519	0.99663	1516.257	1511.445	-1.06045	0.19391	0.94299	1704.314	1607.323
0.56338	1.05462	3068.535	3227.309	-1.22299	0.00193	0.81767	4827.159	3963.664
0.83602	1.02545	5898.517	6083.272	1.12967	0.17339	1.12967	5527.082	6269.858
0.5403	1.21073	102.2996	122.2434	-1.01349	0.97115	0.98669	103.0029	101.737
0.65062	1.0254	949.7016	974.6038	-1.00804	0.91987	0.99202	957.319	946.4089
0.02334	0.90961	2789.238	2537.133	-1.07405	0.18227	0.93106	2831.732	2632.197
0.1619	0.88455	2452.768	2158.747	1.1232	0.04985	1.1232	2077.835	2337.359
0.4031	0.9439	897.1892	846.5784	1.64002	0.0001	1.64002	691.9177	1130.538
0.00184	1.24836	660.0418	821.941	1.1877	0.00575	1.1877	1220.384	1448.989
0.64503	1.03219	541.2789	558.453	-1.1686	0.09659	0.85572	494.0231	423.537

0.19117	0.89245	5405.015	4903.132	1.59465	2.64E-27	1.59465	5175.364	8253.332
0.17398	0.91517	27197.6	24908.91	1.1037	0.24225	1.1037	28948.6	31952.63
0.66058	0.93147	687.9278	649.7189	-1.34018	0.09431	0.74617	545.5568	415.1122
0.65453	1.03178	8054.829	8319.681	-1.42345	1.54E-11	0.70252	8276.218	5818.877
0.35799	0.89695	19056.02	17155.91	2.0501	2.29E-16	2.0501	18045.97	36982.79
0.00484	0.66993	2003.013	1311.061	-1.16483	0.21037	0.85849	1460.391	1259.065
0.41071	0.90559	528.0251	473.6623	1.07753	0.55465	1.07753	506.6184	549.7413
0.67268	1.07875	240.0178	259.1257	-1.02209	0.84086	0.97838	423.6326	413.7942
0.99531	1.00483	48.01754	47.47373	-1.16629	0.88766	0.85742	37.5365	40.80742
0.82794	1.01797	568.7932	577.4324	-1.06516	0.5461	0.93883	461.215	433.725
0.82007	1.05227	1371.852	1434.833	-3.42864	1.41E-09	0.29166	965.3174	281.545
0.81505	1.06603	103.1483	109.8659	-1.25479	0.59534	0.79695	118.2208	93.14336
0.56189	0.93667	594.1419	560.9579	-1.45289	0.02149	0.68828	442.6633	305.5319
0.3025	1.0527	3763.131	3960.626	-1.31017	0.00033	0.76326	3891.326	2972.224
2.06E-08	0.60787	10340.79	6268.039	-1.03619	0.62909	0.96507	7802.58	7542.533
0.93242	1.05784	43.43729	45.88944	-1.08332	0.94993	0.92309	33.28299	31.54114
0.6366	1.07692	255.542	272.7171	1.05716	0.73369	1.05716	287.5345	304.6093
0.21916	0.8248	2744.112	2232.7	-1.98143	2.29E-22	0.50468	2118.002	1070.774
0.62403	1.0218	3439.719	3518.094	-1.01951	0.67986	0.98086	3111.591	3049.553
0.98967	1.01668	30.35586	32.4178	2.13066	0.3263	2.13066	30.53901	64.99634
0.24487	0.84563	2898.055	2442.151	1.35712	0.0106	1.35712	2781.851	3766.981
0.27694	1.15202	502.6703	572.7439	-1.15093	0.31537	0.86886	397.4113	347.4386
0.11902	1.18817	664.4402	785.2238	1.8301	6.38E-14	1.8301	576.9248	1054.248
3.53E-07	0.55958	1511.427	844.2992	1.37375	5.55E-06	1.37375	1248.223	1713.992
0.44649	0.91311	1147.169	1044.149	1.34418	0.00102	1.34418	983.5818	1326.819
0.29613	1.09714	339.1259	371.7866	-1.21794	0.09898	0.82106	358.4997	293.7015
0.23774	1.14789	413.0104	470.1516	2.83868	1.48E-25	2.83868	519.6088	1473.258
0.45011	1.0553	667.5385	705.9924	-1.04517	0.68373	0.95678	920.7678	879.4874
0.00009	0.76826	1802.058	1380.856	1.21261	0.00004	1.21261	1570.776	1904.924
0.86887	1.03012	217.7752	224.6353	-1.05777	0.58396	0.94538	378.4903	357.415
0.73756	0.72272	44.58532	32.4679	1.87635	0.45938	1.87635	31.66654	60.51836
0.75449	1.04745	260.2862	271.0684	1.10126	0.52345	1.10126	276.4235	304.7423
0.34572	1.17469	347.8506	407.0983	1.61283	7.68E-06	1.61283	413.9963	669.7706
0.81825	1.11051	64.30354	70.78249	-1.18163	0.76838	0.84629	66.79079	56.55112
0.60863	1.02602	1393.012	1430.759	-1.1794	0.03765	0.84789	1551.257	1307.7
0.10974	1.08534	921.2703	999.9587	-1.01258	0.8227	0.98757	923.915	912.0753
0.15806	0.89776	2223.036	1993.918	1.43902	1.64E-07	1.43902	2016.568	2907.8
0.80587	1.04101	433.2095	458.5282	-1.1494	0.31492	0.87002	384.3844	332.1334
0.80446	1.02011	1767.815	1789.768	-1.01462	0.8219	0.98559	1910.346	1886.97
0.34708	1.11039	492.2643	550.8619	1.0285	0.68269	1.0285	648.5675	667.1571
0.57474	1.09393	412.0613	456.5875	-1.57229	0.03125	0.63602	269.1379	173.2514
0.44235	1.07491	1566.465	1683.699	-1.82328	2.47E-17	0.54846	1514.323	830.8249
0.03948	0.82011	354.4034	290.9045	1.43849	0.021	1.43849	282.2211	402.5225
0.11146	1.1144	846.0105	945.7718	1.21232	0.0004	1.21232	811.9387	984.1937
0.66225	1.06511	11851.98	12405.71	-2.58754	0	0.38647	14349.13	5551.552
0.55917	0.94546	1939.958	1821.761	1.36336	0.00004	1.36336	1812.907	2477.456
0.84213	1.02122	319.4869	326.8572	-1.16063	0.19338	0.8616	300.8038	259.1673
0.09696	0.82557	25540.75	21402.98	2.09748	2.13E-42	2.09748	29177.73	61178.99
0.06909	1.24684	8881.377	11183.22	-2.50037	1.48E-09	0.39994	14317.41	5561.613
0.50308	1.05875	3184.483	3380.257	-1.4447	6.30E-08	0.69218	3749.264	2587.521
0.38765	1.04296	2675.49	2791.896	-1.31191	5.80E-09	0.76225	2928.226	2229.816
0.3495	1.05367	3605.601	3811.452	1.05092	0.345	1.05092	3860.29	4055.446

0.47315	1.09182	439.6499	475.8848	-1.03053	0.74104	0.97038	422.1644	409.3067
0.4871	1.36907	89.51405	119.8015	1.24321	0.52064	1.24321	82.85843	103.0487
0.69001	1.06296	253.595	267.2997	-1.09205	0.57546	0.91571	302.2754	274.9003
0.15124	1.26836	739.5527	946.8439	-2.32267	2.98E-15	0.43054	737.2958	316.35
0.18216	0.86893	3492.943	3036.036	1.09486	0.44673	1.09486	3256.531	3556.757
0.7288	0.95519	600.7916	567.1395	-1.01619	0.84757	0.98407	554.9316	546.955
0.41793	0.96441	1547.281	1491.953	-1.04834	0.39768	0.95388	1588.282	1513.016
0.33057	0.87197	940.5985	804.1536	1.54756	0.0001	1.54756	1208.931	1881.694
0.81625	0.94322	166.1977	156.0246	-1.02595	0.90969	0.9747	144.0328	140.3645
0.54164	1.44232	51.84853	73.22321	8.72001	1.21E-17	8.72001	35.97938	313.5432
0.15668	1.0777	5182.961	5585.238	1.04523	0.53197	1.04523	4760.259	4971.185
0.03903	0.73527	5091.743	3705.784	1.01966	0.8777	1.01966	4558.961	4625.399
0.03099	0.67342	682.6753	449.0762	1.0882	0.53618	1.0882	546.6423	599.8474
0.2239	0.82992	3175.267	2633.854	1.25883	0.02213	1.25883	2673.395	3377.156
0.49984	0.92445	340.2898	314.0635	1.0232	0.84628	1.0232	313.9476	321.613
0.39943	0.89258	300.5359	269.8425	-1.12072	0.40336	0.89229	262.3239	233.8985
0.74751	1.04258	385.8187	399.0664	-1.11268	0.15354	0.89873	540.9945	486.0905
0.00128	0.68658	4089.346	2805.237	1.4442	1.54E-06	1.4442	3106.715	4498.185
0.18751	1.06941	4170.72	4465.393	-1.06366	0.15396	0.94015	5120.066	4815.378
0.97403	1.01945	50.14244	51.62462	2.45807	0.04269	2.45807	55.52892	137.9384
0.94016	0.99639	3053.375	3040.534	-1.15795	0.00226	0.86359	2768.412	2388.48
0.95206	1.01757	114.7573	117.8465	1.00047	0.99873	1.00047	144.0664	142.1072
0.82707	0.92441	183.7644	179.7629	-2.29636	0.03076	0.43547	161.1983	69.16901
0.6872	0.97381	1519.34	1474.649	-1.08999	0.14622	0.91744	1440.131	1323.705
0.70165	1.26644	60.45874	81.61514	1.22308	0.66139	1.22308	89.69318	111.276
0.16584	0.73281	2574.318	1899.846	1.27076	0.12115	1.27076	2016.277	2618.314
0.51773	1.14359	181.5056	204.7216	1.47032	0.1396	1.47032	144.4753	214.7168
0.79079	1.06022	196.4182	212.8198	-1.02466	0.91447	0.97593	260.6628	249.5871
0.24175	1.09658	1061.407	1159.203	1.11571	0.1001	1.11571	1072.916	1199.415
0.05817	1.2082	363.4841	437.6025	1.46091	0.00366	1.46091	401.9911	592.2658
0.79452	0.98585	2338.897	2313.107	-1.15066	0.03447	0.86906	2311.323	2008.489
0.87994	0.94796	105.1628	101.3147	-1.24181	0.64458	0.80528	94.95869	76.13831
0.3572	0.92062	574.8567	531.275	1.05057	0.59012	1.05057	487.3511	513.1117
0.7138	1.03439	9619.615	9926.367	-2.10454	0	0.47516	9301.674	4420.271
0.05515	0.88754	2886.519	2558.945	1.3196	0.00471	1.3196	2456.439	3240.704
0.09869	0.85182	1280.828	1088.717	1.48309	2.42E-14	1.48309	1095.766	1625.617
0.23011	0.93663	1101.396	1032.41	1.06751	0.37525	1.06751	1159.162	1233.23
0.15489	1.25526	298.8196	370.4034	1.07642	0.6065	1.07642	264.2203	285.3574
0.05829	1.16491	553.1425	645.8551	1.01539	0.79274	1.01539	1370.571	1388.842
0.60667	0.94743	1226.086	1160.053	2.52376	0	2.52376	1185.759	2995.559
0.01781	0.68822	933	630.0501	-1.09048	0.42921	0.91702	738.3126	680.5092
0.40179	1.0717	4613.593	4945.255	1.2223	0.00206	1.2223	4329.785	5299.252
0.62056	0.96755	609.2834	590.085	-1.05157	0.48745	0.95096	575.7392	547.4336
0.02434	1.65568	237.878	365.251	1.0547	0.81086	1.0547	139.611	147.1815
0.63075	0.93894	384.1353	363.7806	-1.04027	0.71505	0.96129	583.7067	557.9249
0.82661	0.91537	126.8249	118.1738	-1.19055	0.73238	0.83995	106.4752	85.30497
0.24357	1.07035	7885.362	8440.471	-1.18357	0.01793	0.8449	8947.992	7531.91
0.12713	1.07121	5507.245	5899.996	1.10764	0.09732	1.10764	5483.425	6089.096
0.71847	1.06663	315.407	335.7952	1.2063	0.18739	1.2063	306.5253	372.2176
0.20126	1.06781	3112.983	3328.79	-1.19036	0.00156	0.84008	3468.969	2922.086
0.38168	1.04568	3036.678	3174.042	1.09848	0.08373	1.09848	2628.216	2876.325
0.20502	0.79584	4157.877	3256.322	1.21455	0.25184	1.21455	3387.639	4171.26

0.0076	1.14551	1052.011	1204.672	1.03048	0.56884	1.03048	1119.77	1153.313
0.97829	0.9631	21.2354	23.90985	-1.04881	0.97342	0.95347	30.05035	32.43667
0.01719	1.1497	5758.129	6565.384	-1.56353	8.91E-08	0.63958	10087.22	6379.843
0.00007	0.69219	1958.96	1344.927	-1.03387	0.57712	0.96724	1619.632	1567.054
0.53716	0.90412	189.0508	170.7633	-1.15436	0.60104	0.86628	186.7766	165.2614
0.56145	0.97081	1259.968	1224.308	-1.12795	0.09899	0.88656	1313.167	1167.172
0.93435	0.9949	1429.306	1416.037	1.03287	0.55381	1.03287	1379.854	1427.143
0.05806	1.36582	209.3462	283.2192	1.40485	0.09788	1.40485	208.3329	292.2213
0.96694	1.01419	131.5653	139.2265	-1.53594	0.18983	0.65107	169.0105	111.2931
0.86407	0.82464	33.43221	28.32533	1.0456	0.96356	1.0456	32.62967	35.18479
0.13262	1.09335	1360.596	1484.927	1.05124	0.29659	1.05124	1629.072	1713.192
3.98E-09	0.67896	1610.584	1095.834	1.12347	0.16602	1.12347	1209.669	1356.609
0.27621	0.89248	687.6157	609.3193	1.25456	0.00588	1.25456	690.8867	869.3826
0.3042	0.90183	2716.371	2445.312	-1.09831	0.36534	0.91049	2300.507	2103.233
0.77033	1.01948	527.272	537.7262	-1.14064	0.07926	0.8767	570.2594	499.9612
0.89659	0.96677	188.4481	185.605	-1.25761	0.41532	0.79516	187.8758	147.3753
0.42623	1.07171	984.1692	1050.73	1.76811	2.42E-08	1.76811	825.6386	1465.915
0.85499	0.95347	121.8103	115.4843	1.21447	0.56449	1.21447	119.795	142.9624
0.94818	0.99558	798.0985	792.5935	-1.21664	0.00165	0.82193	886.7004	728.4162
0.24339	1.06124	2724.943	2893.422	1.28473	1.04E-08	1.28473	2902.413	3729.182
0.40323	0.90686	3287.44	2982.551	1.22842	0.02057	1.22842	2915.327	3589.182
0.71161	1.02255	2313.868	2373.612	-1.02497	0.66778	0.97564	2361.181	2302.93
0.02257	1.17983	3963.078	4622.106	-1.09153	0.38854	0.91615	3939.007	3698.425
0.81482	1.01588	1115.664	1136.896	-1.02296	0.70772	0.97755	1156.989	1129.983
0.59524	1.39195	62.15341	92.38721	-2.98546	0.06389	0.33496	146.9991	52.19103
0.57185	0.92109	347.4498	316.1971	1.34995	0.00612	1.34995	268.8274	363.0772
1	1	17.824	23.19413	1	1	1	19.1224	32.48445
0.31099	0.84881	1161.49	969.828	1.35052	0.02471	1.35052	950.9578	1293.633
0.03519	0.62833	627.6251	379.8985	1.44485	0.01888	1.44485	312.4137	451.377
0.46701	0.96591	2911.518	2818.045	-1.12201	0.08475	0.89126	3735.071	3325.063
0.02988	0.83067	693.4369	573.6478	1.07104	0.34883	1.07104	614.4817	658.9335
0.20325	0.88306	12487.99	10997.25	-1.26747	0.01432	0.78898	11479.55	9078.385
1.29E-11	0.56841	13689.4	7802.92	-1.44097	1.07E-08	0.69398	13138.42	9089.934
0.55126	0.83641	7463.503	5632.171	-12.89748	0	0.07753	6516.11	502.3681
0.06813	0.89328	6359.004	5700.221	1.2105	0.01583	1.2105	5939.083	7177.678
0.01736	0.80355	10326.54	8296.995	1.80962	1.05E-41	1.80962	8730.227	15797.15
0.00016	0.7391	623.8648	460.2021	-1.65634	0.00667	0.60374	467.0743	286.7452
0.85742	1.01711	532.866	539.4417	-1.00972	0.92085	0.99038	546.7321	542.3924
0.90266	1.00984	565.5807	569.6607	-1.10641	0.17629	0.90382	532.924	481.6459
0.74893	1.08186	128.9559	139.8566	-1.22723	0.63263	0.81484	133.0728	105.1001
0.8183	1.0192	449.6856	457.4517	-1.09557	0.33823	0.91276	411.48	375.3209
0.32001	1.06972	6468.538	6920.38	1.01728	0.70176	1.01728	5411.274	5507.221
0.34219	0.9351	783.7881	734.8715	-1.19246	0.14441	0.8386	684.2025	569.6416
0.84623	0.76006	26.14886	23.7677	-1.06268	0.95164	0.94102	31.08022	36.79959
0.38203	0.95979	3671.173	3526.624	1.25577	0.00003	1.25577	3223.557	4050.368
1.37E-06	0.58143	657.7014	384.9838	-1.3994	0.00104	0.71459	743.6189	528.8494
0.40921	0.94345	1050.052	988.86	1.07426	0.26066	1.07426	937.4685	1006.245
0.05253	0.87482	26338.27	23050.79	-12.19152	0	0.08202	24000.44	1948.891
0.12712	1.10061	2004.994	2192.645	-1.1436	0.00395	0.87443	3280.404	2866.362
0.77674	1.06027	175.9643	185.8422	1.33241	0.15741	1.33241	157.5145	210.653
0.74491	1.05406	199.8998	209.8639	1.02056	0.89551	1.02056	210.6616	214.7933
0.29855	1.09921	1830.576	2013.615	-1.11872	0.05342	0.89388	1654.71	1480.793

0.21478	1.12834	9080.931	10136.79	-1.65849	0.00007	0.60296	13410.61	7854.568
0.47072	0.84928	1260.032	1061.726	-2.52891	1.12E-14	0.39543	1345.916	535.1257
0.25992	0.89946	2000.772	1805.655	-1.10402	0.16639	0.90578	1693.724	1534.029
0.60559	0.96944	642.8796	623.2234	1.18189	0.06244	1.18189	614.8381	724.523
0.45266	0.89483	2106.993	1908.139	-1.30992	5.40E-07	0.76341	1546.573	1181.15
0.23987	1.05833	2469.674	2611.153	1.03026	0.49028	1.03026	2678.52	2759.788
0.70602	0.95723	2202.311	2117.215	-1.36687	0.0003	0.7316	1785.354	1305.822
0.70135	1.16916	69.76987	81.56973	1.06383	0.9043	1.06383	63.58191	67.27324
0.51012	1.03825	11152.4	11578.7	1.92404	9.67E-22	1.92404	9961.426	19189.21
0.44205	1.09189	4918.555	5370.529	-1.09337	0.03832	0.9146	9944.646	9090.042
0.00047	0.79834	5905.979	4717.486	1.11394	0.0964	1.11394	5452.218	6066.622
0.22074	1.09102	3935.358	4283.312	1.17874	0.00463	1.17874	3845.189	4545.625
0.53544	1.10916	525.2786	582.6191	1.22176	0.01521	1.22176	584.9639	713.1386
0.57499	1.055	521.6174	548.0025	1.09991	0.25217	1.09991	527.015	579.3265
0.67006	1.05971	299.0107	315.5454	1.07031	0.5798	1.07031	430.8052	457.9365
0.37202	0.90717	4995.331	4520.073	1.20878	0.04827	1.20878	4691.904	5678.521
0.23394	0.87443	531.9157	463.265	-1.16497	0.00668	0.85839	1033.774	887.7604
0.38195	0.88319	322.6307	282.3235	-2.21201	0.00234	0.45208	253.7907	114.6251
0.76901	0.9836	7474.363	7337.979	1.00899	0.85386	1.00899	7578.184	7647.597
0.48783	1.06457	484.2938	513.6882	1.23221	0.00783	1.23221	538.0634	662.2317
3.55E-16	0.61605	1315.146	810.4464	-1.67729	6.91E-06	0.5962	1090.5	645.7473
0.356	1.06457	829.3373	880.4955	1.17184	0.02799	1.17184	773.0252	904.1769
3.63E-07	0.61618	1532.472	938.1756	-1.11012	0.14759	0.9008	1296.959	1169.751
0.38615	0.94905	1602.217	1519.499	-1.11289	0.05432	0.89856	1449.903	1302.362
0.03002	0.69511	536.6047	365.3622	1.25991	0.0106	1.25991	434.224	548.0593
0.90615	0.91558	54.77589	52.54056	1.00779	0.98719	1.00779	76.00212	75.73909
0.12263	0.93237	4765.154	4439.828	1.22386	1.20E-06	1.22386	4810.138	5886.945
8.29E-06	0.7129	12080.86	8598.374	1.05242	0.41367	1.05242	9643.504	10163.13
0.7494	1.02731	2319.116	2376.419	-1.1274	0.04403	0.887	2009.968	1784.426
0.55156	0.96465	9586.766	9270.738	-1.0584	0.23924	0.94482	10365.75	9796.238
0.07232	0.82766	1158.806	959.5071	11.8482	0	11.8482	1069.125	12672.63
0.00148	0.7773	4458.365	3456.638	1.03783	0.63106	1.03783	3818.854	3954.743
0.66612	1.02436	3633.218	3741.434	-1.07227	0.24852	0.9326	3513.041	3265.126
0.78098	1.04453	321.777	339.5447	-1.76191	0.13654	0.56756	287.7197	163.2994
0.76645	1.02475	5419.735	5592.283	1.27678	5.07E-09	1.27678	4920.824	6282.589
0.00427	1.28573	3290.37	4215.795	-1.7409	0.00004	0.57442	4948.59	2781.875
0.21644	0.8748	344.0425	301.2877	-1.0129	0.94771	0.98727	310.0712	302.3063
0.53553	0.7868	119.5863	91.57124	1.213	0.58784	1.213	82.98969	100.9865
0.62483	0.96504	675.1873	651.1149	-1.05481	0.44677	0.94804	839.9851	795.8043
0.03506	0.8508	2288.824	1949.492	-1.7241	5.75E-26	0.58001	2091.539	1213.386
0.74249	0.97383	2228.096	2170.165	-1.31547	0.00012	0.76019	2309.398	1752.722
0.21208	1.07363	2224.315	2393.973	-1.147	0.02414	0.87184	2274.25	1983.763
0.46697	0.9254	1507.827	1390.245	1.64371	1.19E-11	1.64371	1526.267	2509.511
0.74133	1.01845	3135.706	3184.587	-1.06687	0.26806	0.93732	3472.531	3248.137
0.71692	1.04257	615.6605	636.6848	1.06538	0.43456	1.06538	574.5964	613.2019
0.72854	1.15909	69.61831	79.75476	1.0649	0.91394	1.0649	69.22665	73.58276
0.7226	1.03562	1604.772	1669.21	1.11106	0.26062	1.11106	1545.053	1717.375
0.80678	0.8943	108.6279	102.9318	-1.195	0.79238	0.83682	71.16057	57.44525
0.9784	0.99869	3119.091	3115.602	-1.15972	0.01528	0.86228	2561.824	2202.65
0.62749	0.9612	1084.393	1042.251	1.56005	3.44E-15	1.56005	930.1524	1450.547
0.74497	1.02838	1252.085	1284.967	1.1714	0.01368	1.1714	1271.424	1491.553
4.95E-07	0.66751	6600.65	4406.282	1.04218	0.55139	1.04218	5531.996	5765.562

0.474	1.06003	1081.386	1143.803	-1.0439	0.55555	0.95795	978.6885	940.1486
0.75039	0.97611	1530.516	1489.866	1.16824	0.00444	1.16824	1381.904	1611.77
0.27108	0.85899	328.3322	279.7453	2.2192	1.04E-09	2.2192	296.989	663.5443
1	1	19.27679	24.03038	1	1	1	18.25239	31.25038
0.25248	0.91863	3087.466	2829.088	1.04217	0.57974	1.04217	3030.339	3169.691
0.02132	1.11917	1380.413	1544.164	1.21502	0.00005	1.21502	1757.335	2135.398
0.31052	1.10877	401.0205	446.3944	1.00207	0.98516	1.00207	439.5965	438.7498
0.69083	0.89694	165.213	152.1979	-1.167	0.67433	0.8569	176.7621	144.8682
0.82311	1.07171	150.9233	158.5766	1.02751	0.90747	1.02751	154.7106	158.2589
0.22012	1.06872	5083.902	5452.194	1.00713	0.8878	1.00713	4907.308	4941.868
0.41801	0.9053	4281.521	3839.115	1.14533	0.07389	1.14533	3885.039	4466.428
0.11463	0.87257	599.0067	520.7638	1.89296	5.77E-25	1.89296	550.8059	1043.024
0.25018	0.88362	296.3395	261.6871	1.01564	0.92123	1.01564	265.6136	271.1011
0.78593	0.79994	37.03234	29.47853	1.00917	0.99151	1.00917	43.19051	43.91483
0.00025	1.24154	2082.137	2584.281	1.42218	5.74E-11	1.42218	2041.381	2904.951
0.75993	0.94813	192.8351	182.8311	-1.37831	0.13715	0.72552	194.318	140.4724
0.85886	1.01975	726.758	736.3931	1.44703	1.67E-08	1.44703	723.8169	1048.234
0.54275	1.0378	1278.857	1327.848	1.08614	0.07916	1.08614	1939.167	2104.536
0.84891	0.975	320.976	310.9417	-1.02708	0.85792	0.97364	270.3644	263.5864
0.88271	0.98378	3405.307	3364.253	1.93063	1.21E-30	1.93063	3010.898	5813.304
0.3387	1.04957	2419	2537.167	-1.03803	0.52607	0.96336	2447.625	2355.196
0.47579	1.3583	75.82025	100.6893	2.14089	0.1286	2.14089	62.36357	136.0611
0.41008	0.92908	607.5149	562.6376	1.37008	0.00002	1.37008	605.1151	828.1634
0.79308	0.98149	720.7979	706.3651	-1.13864	0.07108	0.87824	646.4353	567.2147
0.12075	0.87016	933.7113	809.4005	1.02654	0.77325	1.02654	783.5966	801.7766
0.05827	0.83836	417.5752	349.6776	1.36412	0.02022	1.36412	382.6628	518.095
0.86913	0.97854	367.8986	358.9433	-1.14222	0.18313	0.87549	376.9797	330.2026
0.883	1.00754	1392.65	1403.899	1.29526	0.00003	1.29526	1274.192	1651.94
0.90285	0.99304	4637.529	4610.958	1.23964	0.00105	1.23964	4847.853	6017.79
0.9521	0.9706	65.50957	63.61449	-1.04441	0.96346	0.95748	48.07697	44.25882
0.00864	0.73108	3310.272	2418.306	-1.11742	0.13449	0.89492	2730.167	2448.877
0.1151	0.822	3021.914	2471.169	1.37348	0.00163	1.37348	2412.418	3320.336
0.71013	0.96456	1827.892	1755.056	1.52333	0.00041	1.52333	1634.938	2504.087
0.7687	1.03022	364.9393	374.8408	1.04498	0.69651	1.04498	316.3888	330.1718
0.70286	1.39737	40.95512	54.58055	-1.10198	0.85858	0.90746	66.85438	60.16267
0.00073	0.63846	3137.19	1993.249	1.05467	0.59272	1.05467	2775.369	2925.509
2.28E-06	0.78749	2085.191	1641.858	-7.43931	0	0.13442	1878.167	252.5036
0.1328	0.8285	902.8445	737.791	1.10696	0.33983	1.10696	787.6111	876.079
0.58912	1.0667	386.1644	415.1282	-1.14343	0.41144	0.87456	298.6783	259.4584
0.55469	1.17481	101.1239	118.7371	1.18331	0.59246	1.18331	104.1696	123.1863
0.49193	0.91577	1545.603	1418.628	1.0571	0.70708	1.0571	1328.88	1406.708
0.65949	0.93016	222.3743	205.6208	-1.30497	0.34485	0.7663	149.1372	114.5931
0.00199	1.35775	852.7347	1155.843	2.10942	2.24E-33	2.10942	750.4117	1583.613
0.87384	1.01408	1108.179	1133.898	-1.26132	0.00015	0.79282	1005.944	798.0925
0.09847	0.69981	192.4761	133.7109	1.87797	0.02088	1.87797	143.3151	264.2944
0.00003	0.69456	1813.194	1259.524	-1.03735	0.51842	0.964	1443.974	1390.68
0.81864	1.04073	209.5023	219.788	-1.00589	0.97659	0.99415	202.6051	200.1268
0.40919	1.053	688.464	724.1577	1.14401	0.08865	1.14401	760.0524	867.3566
0.44864	1.12526	617.949	686.6511	2.429	2.10E-15	2.429	522.6212	1279.059
0.11362	1.08587	3097.347	3359.727	-1.05178	0.31604	0.95077	3547.62	3372.207
0.68392	0.93373	213.3317	200.0385	1.15462	0.44062	1.15462	238.7636	272.5165
0.29068	1.05734	1654.018	1746.971	-1.01071	0.81762	0.98941	1669.51	1651.991

0.67817	1.0416	417.2338	435.1632	-1.07013	0.46059	0.93447	402.7675	376.6028
0.48	0.95605	2693.547	2575.628	-1.37697	2.33E-09	0.72623	3371.94	2445.824
0.3403	0.80208	347.0026	272.5049	1.30714	0.24215	1.30714	237.6201	313.1362
0.81196	0.97469	679.5784	658.2017	1.73682	2.40E-13	1.73682	582.2083	1009.519
0.74382	0.9802	1831.099	1792.604	-1.11152	0.03352	0.89967	1589.431	1429.15
0.79767	0.95241	256.0973	239.665	2.26401	0.00003	2.26401	224.9054	517.7927
0.57238	0.94001	520.5814	492.0632	-1.34562	0.0584	0.74315	542.0012	398.8519
0.30696	1.07739	1568.19	1697.663	-1.23486	0.00095	0.80981	1779.971	1442.694
0.00592	0.63554	1292.428	804.6465	1.08736	0.40888	1.08736	995.8375	1087.022
0.85287	0.98807	574.2559	567.1832	-1.00749	0.92628	0.99257	613.4755	607.8292
0.08645	1.07411	3947.732	4241.146	1.14971	0.00877	1.14971	3925.033	4512.262
0.17647	0.90732	803.2344	729.9346	1.61554	2.17E-12	1.61554	764.3786	1234.117
0.18965	0.76457	254.0727	191.2099	-1.01832	0.89781	0.98201	288.1007	281.8811
0.99586	0.99948	761.0869	757.0016	1.51639	3.07E-08	1.51639	666.9202	1009.557
0.00048	0.66232	1108.172	726.5359	-1.20469	0.02025	0.83009	828.8181	689.6243
0.19781	1.06602	2439.026	2598.46	1.0913	0.11716	1.0913	2445.292	2657.125
0.25095	0.82322	507.2424	407.7405	-1.04234	0.68808	0.95938	391.4099	375.717
0.85558	1.01997	690.7103	698.9153	1.13385	0.23257	1.13385	591.2424	673.6098
0.98839	0.99871	1554.365	1549.014	1.88617	3.65E-07	1.88617	1331.784	2534.628
0.23196	1.05188	1888.802	1986.799	-1.12219	0.07326	0.89111	2330.281	2071.898
0.87479	0.95986	108.3031	103.8884	1.10568	0.76881	1.10568	96.81295	106.7241
0.32368	0.8608	15211.35	13102.58	1.30766	0.07832	1.30766	12322.44	16425.61
0.99275	1.00102	393.1662	395.9424	-1.21982	0.23009	0.81979	435.8525	358.897
0.34798	1.16485	162.6037	189.6252	1.01701	0.9328	1.01701	191.3243	193.9433
0.41684	1.08069	534.8717	575.2521	1.51167	7.94E-07	1.51167	475.2302	717.246
0.78205	0.98413	907.971	892.5484	1.01566	0.80957	1.01566	884.1948	899.0947
0.31687	1.06841	4685.887	5032.816	-1.12137	0.15588	0.89176	5182.809	4609.827
0.93905	0.99049	283.1971	280.0996	-1.08127	0.5153	0.92484	278.3521	257.3781
0.01013	1.17996	19027.54	22467.38	-1.26586	0.01758	0.78998	23792.88	18618.04
0.58009	1.06552	1233.916	1314.121	-1.06234	0.51892	0.94132	1159.655	1092.924
0.04295	1.10906	2824.498	3136.258	-1.2999	2.17E-07	0.76929	2656.541	2045.108
0.75015	1.02837	830.4957	859.2863	-1.09573	0.44521	0.91263	775.4428	702.7494
0.49113	1.05889	6341.758	6705.876	1.22113	0.00008	1.22113	5864.403	7170.204
0.99914	1.00013	269.3669	269.831	-1.05804	0.73502	0.94515	226.748	214.1219
0.0366	1.12694	1518.454	1709.263	1.28043	0.11907	1.28043	1384.884	1789.042
0.7163	1.19841	63.16718	74.17702	1.33906	0.74893	1.33906	31.97972	47.9158
0.78056	0.98424	785.2651	772.6026	1.07928	0.36002	1.07928	725.0776	780.5636
0.03434	1.10075	7188.315	7904.163	-1.04621	0.4016	0.95583	7902.928	7543.735
0.01533	1.22091	600.8355	731.5161	1.55394	0.00121	1.55394	645.4492	1001.08
0.62492	1.03353	923.4702	957.2535	1.01538	0.8246	1.01538	958.3582	971.9183
0.02108	0.75563	2399.086	1822.25	1.16895	0.07321	1.16895	2286.689	2677.614
0.71528	0.98313	1481.443	1455.86	-1.05814	0.25875	0.94506	1573.508	1486.568
0.20752	0.90284	1233.669	1114.683	1.23626	3.01E-06	1.23626	1478.913	1828.333
0.65962	0.91465	285.8027	267.0354	1.09835	0.57845	1.09835	220.1819	242.7815
0.12072	0.93468	2426.839	2267.922	-1.00067	0.99091	0.99933	2204.983	2196.323
0.52849	0.94961	3070.437	2928.192	1.22087	0.01746	1.22087	2855.406	3491.589
0.27382	1.07977	7176.813	7739.687	1.06925	0.10114	1.06925	5968.923	6382.662
0.39949	1.06513	1017.823	1079.119	1.05324	0.38024	1.05324	1093.285	1152.644
0.61346	1.04107	531.8409	554.6603	-1.03259	0.77364	0.96844	453.2901	437.2284
0.98034	0.98538	49.32651	48.57623	-1.27688	0.78288	0.78316	45.16773	34.94948
0.88767	0.84881	36.65329	33.67001	1.17647	0.78627	1.17647	53.98212	62.8557
0.20826	0.86052	968.2795	827.0107	1.08575	0.1435	1.08575	842.0029	913.8438

3.63E-07	1.32301	2556.861	3388.955	3.76986	4.41E-25	3.76986	2429.85	9346.747
0.7567	0.96481	727.3892	697.1777	1.5655	2.22E-13	1.5655	655.3651	1025.633
0.03531	0.82663	729.4921	605.2712	-1.47251	0.00005	0.67911	718.8497	489.7623
0.54283	1.03623	2051.496	2126.384	1.05892	0.21607	1.05892	1858.761	1969.139
0.95907	0.99369	6369.499	6375.025	-1.27091	0.00926	0.78684	6077.29	4773.577
0.55416	1.0838	229.4914	248.9443	-1.08269	0.54722	0.92363	472.635	441.0433
0.20909	1.10273	13224.08	14638.54	1.13822	0.02886	1.13822	12999.62	14796.96
0.62417	1.09056	281.8207	303.4733	1.14904	0.32664	1.14904	321.5284	372.2278
0.15327	0.89445	1342.856	1202.171	1.44904	1.24E-06	1.44904	1171.999	1694.963
0.08798	0.88626	873.895	774.1907	1.17255	0.12676	1.17255	712.5765	832.6868
0.60202	1.03438	1759.085	1827.393	-1.00186	0.97277	0.99814	1803.221	1800.892
0.46414	1.12274	204.1886	229.1297	1.09011	0.64009	1.09011	211.8391	229.5223
0.68172	1.02389	4794.855	4894.5	-1.00434	0.93341	0.99568	4901.045	4881.597
0.21394	0.87122	538.6883	472.6127	-2.31016	1.23E-08	0.43287	470.1261	202.3043
0.3262	1.07382	4878.585	5214.68	1.01491	0.76551	1.01491	5173.005	5251.138
0.83682	0.9867	734.1224	725.5159	-1.08113	0.38601	0.92496	731.2373	674.56
0.00503	0.8489	1648.511	1397.615	-1.12657	0.05251	0.88765	1472.569	1306.662
0.43019	0.87086	1301.044	1130.806	-1.55663	0.00003	0.64241	909.4429	586.3817
0.44608	0.89148	442.3655	397.5296	-1.22603	0.16393	0.81564	366.8084	299.9232
0.01072	1.22253	2454.455	3025.168	1.84283	6.82E-19	1.84283	2182.755	4020.726
0.16675	0.75486	184.491	138.5017	-1.16409	0.5767	0.85904	147.0099	126.6877
0.08545	0.83587	765.0729	635.7163	1.59774	1.73E-14	1.59774	666.3053	1063.896
0.51269	0.91235	823.0936	759.1502	-1.59084	0.00009	0.6286	667.1602	416.499
0.2705	0.86293	397.1381	345.67	-1.24438	0.12038	0.80361	333.4302	269.1213
0.05685	0.88911	1326.732	1178.236	1.25953	0.00001	1.25953	1126.849	1419.895
0.49369	1.04441	736.4398	768.3367	1.49096	1.79E-10	1.49096	707.3561	1055.312
0.14777	1.16903	505.4805	586.9093	2.03223	0.00044	2.03223	504.3209	1028.084
0.24423	1.07018	3989.223	4261.185	-1.03204	0.50205	0.96896	3921.22	3797.158
0.77691	1.09324	126.4484	135.4804	1.23335	0.39427	1.23335	124.5867	153.7472
0.53963	1.04225	867.0732	901.7044	-1.13096	0.06968	0.88421	932.5142	823.2053
0.2741	0.93802	1443.258	1357.493	-1.12392	0.04768	0.88974	1291.742	1147.461
0.01566	0.73866	712.0647	520.3524	-1.50639	0.00003	0.66384	582.4846	385.5885
0.66997	0.97228	994.8408	970.0433	-1.04515	0.56446	0.9568	856.5166	817.5228
0.9522	0.99454	386.3914	384.1858	-1.19634	0.23398	0.83588	412.1325	342.8409
0.90664	0.98882	603.8175	593.8259	-1.07902	0.52634	0.92677	531.6158	488.8841
0.17462	0.87647	3056.379	2676.644	-1.12775	0.05564	0.88672	2918.409	2589.585
0.45871	0.92504	442.9078	408.0969	1.26668	0.02695	1.26668	354.2585	449.8759
0.49647	1.04771	4858.11	5073.81	-1.18094	0.00359	0.84679	4982.486	4218.84
0.09303	0.85832	1921.535	1649.974	1.76322	2.41E-10	1.76322	1491.112	2644.006
0.80106	0.92498	116.5751	107.533	1.05715	0.70932	1.05715	239.5316	253.4855
0.00216	0.58025	7256.687	4170.313	-1.95301	4.29E-14	0.51203	3126.604	1592.877
0.99426	0.99931	403.7638	404.7633	-1.05179	0.675	0.95076	371.8454	354.8873
0.00145	0.76972	1324.066	1018.838	1.21033	0.00055	1.21033	1394.134	1686.661
0.90771	0.96827	109.8735	106.3115	1.09329	0.79425	1.09329	96.01366	105.1943
0.39883	1.06785	426.9567	455.8947	-1.02522	0.86227	0.9754	439.7917	426.6645
6.18E-06	0.46874	1296.766	595.1764	-1.01654	0.83311	0.98373	839.1044	827.5672
0.2585	0.91043	1143.432	1041.345	1.51195	0.00038	1.51195	1150.99	1753.21
0.54826	0.96483	1144.941	1107.433	1.26219	0.0035	1.26219	969.6215	1218.272
0.00451	1.15734	1439.401	1664.343	1.20959	0.0004	1.20959	1613.053	1950.053
0.94593	1.04716	42.70074	44.57239	1.60162	0.55083	1.60162	44.3714	68.56416
0.83871	1.01724	1922.627	1954.28	-1.08116	0.13322	0.92493	2798.851	2588.334
0.40796	0.9267	4300.709	4011.197	1.3002	0.00392	1.3002	3841.352	5002.789

0.72793	1.04828	304.4931	317.0369	-1.0568	0.70011	0.94625	287.086	270.6667
0.04015	0.76712	3643.911	2773.066	-1.13315	0.34184	0.8825	3068.282	2693.037
0.04254	0.89615	3560.18	3191.453	-1.00455	0.92699	0.99547	3479.798	3463.901
0.95743	1.00677	241.8337	243.8981	1.05096	0.80981	1.05096	212.8695	221.2422
0.88978	1.03944	122.9518	126.5698	-1.03976	0.89888	0.96176	137.9351	134.3976
0.30765	1.12895	224.9784	253.9923	-1.12495	0.63418	0.88893	157.2862	140.3537
0.25541	0.87744	14409.29	12751.77	1.32167	0.00671	1.32167	13575.19	17957.78
0.84669	1.01418	922.2217	931.8306	1.09096	0.26415	1.09096	854.8489	934.2156
0.36053	1.0735	1165.936	1248.555	1.05342	0.46075	1.05342	1122.112	1183.126
0.00205	0.79007	666.3327	527.4812	-1.28416	0.01695	0.77872	512.0026	399.801
0.34543	0.93684	1604.02	1498.042	1.45351	0.00024	1.45351	1703.159	2489.72
0.07987	1.09671	1237.071	1358.544	-1.10137	0.11353	0.90796	1469.728	1333.924
0.63699	0.91101	1138.258	1038.736	-3.05579	1.13E-19	0.32725	774.8721	254.7621
0.82566	1.19297	46.30295	56.05376	1.02648	0.93962	1.02648	90.03639	92.35307
0.00188	0.77157	73285.16	56644.94	-1.14993	0.06824	0.86962	79748.23	69210.56
0.18175	0.94166	2843.135	2676.667	1.31527	0.0023	1.31527	2509.098	3326.229
0.29915	1.06571	1910.489	2025.697	1.14388	0.0049	1.14388	1825.669	2088.865
0.06691	1.07666	10578.55	11389.51	-1.21362	0.00014	0.82398	12391.69	10190.67
0.39369	0.8925	8700.391	7742.58	1.24991	0.05822	1.24991	7851.083	9815.203
0.57805	0.94305	696.8174	653.1679	1.47396	0.00008	1.47396	865.8096	1275.241
0.37831	0.7993	185.5846	145.7375	-1.26368	0.58364	0.79134	177.3641	132.387
0.19129	0.8959	13412.85	12065.25	1.18528	0.00003	1.18528	11926.46	14136.2
0.76597	0.95341	204.8234	195.282	1.03504	0.82289	1.03504	216.1057	223.9352
0.00037	0.80736	4277.996	3449.653	-1.09258	0.23204	0.91527	3866.978	3543.972
0.06256	0.83859	1855.937	1562.486	1.3582	2.56E-06	1.3582	1592.228	2163.556
0.85245	1.03951	144.0231	150.2545	-1.26848	0.4294	0.78834	146.2625	114.2528
0.36713	0.88756	3261.538	2913.195	1.38442	1.56E-07	1.38442	2722.318	3772.315
0.16768	0.78614	607.4561	466.0309	1.59112	2.93E-07	1.59112	516.7166	824.6141
0.8789	1.01795	304.2721	310.7073	-1.17944	0.07335	0.84786	546.5015	462.5635
0.77334	1.06944	138.5289	147.0439	1.17703	0.51095	1.17703	115.1706	135.6645
0.98194	1.01861	41.71935	42.3841	1.48704	0.54311	1.48704	39.24904	58.32917
0.08877	0.82345	512.8066	418.9039	-1.19254	0.06722	0.83855	461.3651	387.3764
0.51761	1.04561	1354.86	1425.044	-1.2511	0.00006	0.7993	1284.699	1025.87
0.8136	1.02525	364.2529	374.597	1.23148	0.05968	1.23148	365.5582	449.0411
0.49009	1.07232	1099.452	1188.645	1.04432	0.70472	1.04432	1120.703	1162.492
0.14143	0.91321	974.8268	890.6191	1.20396	0.00109	1.20396	1096.909	1319.387
0.6972	1.02357	1310.582	1345.138	-1.35457	0.00001	0.73824	1308.596	965.2532
0.54374	1.1371	214.6688	237.7896	-1.07603	0.80666	0.92934	182.2756	166.2606
0.01893	1.12116	1515.226	1697.653	2.09423	4.45E-27	2.09423	1380.985	2894.82
0.63324	0.96809	3222.018	3133.967	-1.06853	0.31426	0.93586	3039.77	2838.915
0.8428	0.98341	3223.031	3204.166	-1.14225	0.08417	0.87547	3224.225	2823.885
0.08158	0.84992	34659.18	29435.07	1.12746	0.23144	1.12746	37254.08	42077.54
0.45645	1.05655	1156.809	1216.33	-1.15047	0.00933	0.86921	1162.818	1010.539
0.15994	0.89255	13992.77	12523.13	1.19669	0.02049	1.19669	10276.75	12478.74
0.8274	1.03184	216.2132	223.6396	-1.23121	0.53417	0.81221	147.4777	120.2748
0.64061	1.0513	403.3831	426.0601	2.69657	5.37E-07	2.69657	379.8097	1026.541
0.12496	1.14137	1640.606	1852.055	-1.17666	0.01504	0.84987	2673.43	2260.797
0.14366	1.08063	5079.079	5479.468	1.06543	0.15433	1.06543	5588.333	5954.118
0.95971	0.9955	2252.25	2250.107	1.37738	0.00112	1.37738	1969.435	2720.578
0.50548	1.0779	493.3416	536.1522	1.33307	0.07074	1.33307	418.5948	551.9377
0.19113	1.16337	3353.084	3900.892	-1.20991	0.00103	0.8265	6653.71	5490.175
0.44041	1.11235	1419.469	1577.747	-1.43992	0.00144	0.69448	1449.96	1003.756

0.17285	1.0612	1886.232	2001.535	1.01012	0.88388	1.01012	1747.904	1758.982
0.02346	0.86925	2706.23	2349.261	1.00948	0.86262	1.00948	2354.19	2376.267
0.01105	0.54865	587.0493	310.5525	1.15348	0.38935	1.15348	390.1385	453.9332
0.05184	1.15965	10775.82	12390.65	-1.95613	7.54E-10	0.51121	15678.51	7960.17
0.93007	0.97827	387.3001	394.4729	-2.50651	3.26E-07	0.39896	390.8117	154.8756
0.07208	0.86917	4039.508	3517.622	1.46594	3.02E-08	1.46594	3907.563	5711.922
0.85746	0.98236	684.6116	675.9433	-1.61003	3.62E-07	0.6211	605.3543	376.6826
1	1	19.5605	24.74774	1	1	1	21.17712	32.57751
0.22105	0.90246	1567.026	1416.441	1.40408	1.17E-13	1.40408	1347.443	1891.929
0.13222	1.10801	3421.443	3769.032	-1.05489	0.39814	0.94796	4763.403	4526.587
5.30E-07	0.76225	1813.3	1382.492	1.02083	0.67142	1.02083	1620.643	1654.21
0.03621	1.13228	11084.46	12569.9	-1.25317	0.00327	0.79798	13085.46	10364.89
0.00771	0.87428	1506.105	1316.707	-1.00854	0.88969	0.99154	2106.768	2096.041
0.98095	1.00184	839.9357	838.8332	1.13266	0.14635	1.13266	847.1981	957.906
0.14595	0.91821	2633.74	2420.52	-1.0443	0.43428	0.95758	2209.153	2115.746
0.62025	1.08622	254.3781	280.0685	1.08942	0.66282	1.08942	185.8295	201.5098
0.51745	1.03942	1572.625	1636.887	1.51077	3.77E-07	1.51077	1597.009	2420.38
0.04518	0.78559	821.0703	637.9736	1.55754	8.39E-09	1.55754	663.2754	1035.177
0.09298	1.17698	1027.235	1206.524	1.48058	6.96E-09	1.48058	923.4308	1367.394
0.94986	1.01829	110.4248	111.6596	1.55212	0.06406	1.55212	109.8136	170.5337
0.84525	1.00851	5294.912	5337.389	-1.09874	0.06745	0.91013	5567.04	5058.313
0.62262	1.04987	401.7756	423.0692	1.22456	0.06434	1.22456	518.886	632.8366
0.12175	1.08972	1117.221	1215.602	-1.02186	0.69592	0.9786	1223.525	1197.589
0.7965	1.03551	269.2502	278.7128	1.04708	0.71808	1.04708	288.8101	302.4808
0.00004	0.60931	1542.999	938.2357	1.17299	0.06443	1.17299	1349.745	1589.392
0.02869	1.32659	1118.757	1479.946	1.46365	0.01207	1.46365	2195.221	3211.069
0.69707	0.93215	194.4633	181.9319	1.02022	0.92632	1.02022	163.5384	166.2695
0.51858	1.03617	2402.801	2491.028	-1.1564	0.00427	0.86476	2985.483	2579.293
0.30771	1.09302	476.4959	519.225	1.00843	0.92041	1.00843	514.7385	518.3532
0.00153	0.74394	4661.807	3468.747	-1.19584	0.00632	0.83623	4022.331	3363.385
0.53144	0.9209	2733.729	2521.344	1.40815	0.0005	1.40815	2307.995	3267.395
0.6499	0.95125	90812.27	86215.64	1.06685	0.54068	1.06685	96063.03	103053.9
0.39447	1.09315	927.9904	1022.223	-1.25992	0.0337	0.7937	1109.723	874.3853
0.55198	0.95626	555.1054	529.9968	-1.07079	0.49708	0.93389	498.2136	466.4534
0.76937	1.03068	373.7564	383.8226	1.04926	0.6922	1.04926	308.9099	323.6351
0.85717	1.0257	333.2607	344.6373	1.20187	0.17713	1.20187	318.8709	380.8789
0.53272	0.96034	871.0577	835.4446	-1.23631	0.00125	0.80886	799.9493	646.6043
0.46754	1.03966	2056.101	2141.467	-1.14805	0.05389	0.87104	2349.384	2036.922
0.00084	1.14971	6304.056	7248.215	1.05665	0.35813	1.05665	6842.604	7218.057
0.00017	0.67729	1409.255	949.3279	-1.09089	0.31008	0.91668	1157.409	1062.646
0.60395	1.03922	1195.484	1244.582	1.17326	0.01012	1.17326	1216.271	1425.438
0.85989	1.04129	154.083	160.5907	1.09752	0.63053	1.09752	180.4445	197.4007
0.41578	1.06173	626.1156	663.8377	1.0193	0.77894	1.0193	923.5136	939.6068
0.41354	1.04528	11642.73	12162.89	1.12375	0.03184	1.12375	13266.52	14902.71
0.42459	0.96633	2952.629	2853.279	1.10066	0.02713	1.10066	2777.969	3058.067
0.0096	0.74739	6885.333	5105.271	1.30938	0.00026	1.30938	5927.436	7780.82
0.5285	1.28964	73.22955	93.78268	1.22406	0.78597	1.22406	51.61377	61.31876
0.38025	1.0617	2012.375	2127.433	1.07128	0.18185	1.07128	2221.355	2382.147
0.16162	1.09458	3944.747	4304.774	-1.04335	0.38588	0.95845	4292.677	4115.569
0.81815	0.98075	470.7411	460.8375	-1.21389	0.17825	0.8238	478.0046	392.3807
0.35658	0.9043	905.8055	814.8823	1.03402	0.68018	1.03402	728.6029	755.1398
0.66314	0.95745	615.8358	586.0123	-1.02071	0.7926	0.97971	595.616	582.7609

0.93322	1.02045	151.0116	155.4262	1.36206	0.29873	1.36206	130.3973	175.2298
0.13283	1.10083	579.4474	637.3879	-1.1067	0.15198	0.90359	613.0214	553.9332
0.41376	1.11459	501.9601	566.2321	-1.55818	0.00008	0.64178	530.3231	339.7921
0.06589	0.87427	4145.584	3615.744	1.08666	0.22847	1.08666	3823.655	4144.814
0.87321	1.0475	139.5499	147.3995	1.01235	0.93963	1.01235	372.2856	381.9514
0.44571	1.12611	201.682	228.0973	1.08046	0.6828	1.08046	218.4961	234.4518
0.92131	1.00416	57948.09	58184.8	-12.66587	0	0.07895	55244.97	4351.614
0.71318	0.95552	449.5754	430.546	1.05342	0.7005	1.05342	531.4146	564.4251
0.52357	0.96247	8278.757	7995.745	-1.09101	0.28896	0.91658	8889.725	8137.638
0.82364	1.01838	1802.702	1826.122	1.46969	2.00E-11	1.46969	1841.542	2710.327
0.31792	0.93835	946.7869	889.2469	-1.11615	0.1953	0.89594	873.0307	780.2053
0.46766	1.06333	859.1274	917.9606	1.07835	0.46994	1.07835	985.8892	1059.259
0.52131	0.88832	276.7318	241.1261	1.26492	0.28994	1.26492	186.0325	234.5044
0.86697	0.97377	176.9955	172.2594	1.60072	0.00666	1.60072	180.7847	288.6597
0.84555	1.01577	634.374	642.9206	-1.16158	0.03792	0.86089	693.5099	597.2452
0.82994	0.9855	1001.714	989.0999	1.16459	0.08714	1.16459	890.5378	1033.771
0.64379	1.04215	650.4873	680.923	2.57082	3.23E-14	2.57082	681.7639	1759.934
0.27047	0.92446	12014.35	11095.29	-1.3291	0.00042	0.75239	11547.95	8653.201
0.20647	1.09845	720.2932	791.2512	1.01062	0.81632	1.01062	1638.637	1656.158
0.04703	0.83224	918.8312	760.2753	-1.05463	0.38265	0.9482	746.4191	708.0126
0.78255	0.92677	108.906	101.1751	-1.17085	0.63552	0.85408	150.2369	131.3229
0.75634	0.84421	66.87326	55.39292	-1.16687	0.75651	0.85699	108.8858	98.9444
0.5081	1.09695	583.5792	632.5725	1.3694	0.02299	1.3694	481.1667	665.1934
0.90192	1.01867	387.3102	400.2892	-1.04016	0.76299	0.96139	385.1215	367.9567
0.14939	1.07931	961.5386	1038.082	-1.12289	0.11796	0.89056	969.7405	861.3934
0.62449	1.38424	54.77267	71.40595	1.4773	0.4378	1.4773	53.81983	79.32312
0.64539	1.04733	430.3082	448.6088	1.03546	0.73889	1.03546	384.5469	398.6652
0.03185	0.69317	705.9463	478.804	-1.10408	0.18518	0.90574	569.6975	516.2266
0.96318	1.0034	964.0452	971.0568	-1.09347	0.2259	0.91452	982.3901	900.6809
0.80349	0.89524	75.20142	67.34196	1.29748	0.70107	1.29748	59.61681	73.77254
0.75537	0.96962	820.9169	802.2291	-1.03224	0.74312	0.96876	757.0832	730.4105
0.0064	1.34593	19819.2	26628.04	-2.33715	4.97E-07	0.42787	32847.64	13562.81
0.03929	0.75054	12205.14	8962.736	1.30234	0.03539	1.30234	11280.15	14757.08
0.43261	0.90486	481.8497	430.9309	1.54244	0.00209	1.54244	369.4643	566.2353
0.68031	0.97808	21161.45	20671.77	1.08489	0.17655	1.08489	21393.82	23229.66
0.92718	0.97804	139.5028	103.9964	1.14328	0.71906	1.14328	113.6053	127.196
0.06668	1.15287	841.9054	971.1821	1.50178	0.00005	1.50178	1000.18	1508.228
0.03534	0.86867	2249.083	1955.558	-1.5094	4.37E-08	0.66251	2175.589	1441.463
0.01842	0.83111	2822.646	2343.036	1.23848	0.00011	1.23848	2527.938	3128.313
0.6634	0.93773	1434.146	1349.685	-1.18041	0.00196	0.84716	1089.916	923.2792
0.05817	0.85101	1631.957	1395.281	-1.20838	0.02319	0.82755	1490.151	1232.552
0.23274	1.07593	2587.109	2775.859	-1.06884	0.18566	0.93559	2855.032	2675.813
0.11944	0.93699	2930.372	2745.953	-1.1354	0.12278	0.88075	2693.276	2345.117
0.86913	0.97381	247.0602	238.7301	1.18154	0.30969	1.18154	261.5548	311.8485
0.09354	1.09593	1450.911	1588.825	1.15113	0.00215	1.15113	2305.874	2653.591
0.84853	1.03701	175.5949	182.7249	1.02808	0.90612	1.02808	172.3296	175.628
0.18411	1.11152	435.9764	483.8886	1.24347	0.00906	1.24347	437.0806	543.5657
0.80474	1.01546	5921.369	6007.709	-1.15227	0.00414	0.86785	6184.084	5362.128
0.65519	1.15482	144.0472	157.6372	1.04974	0.75691	1.04974	261.7363	275.4471
0.95506	0.95824	59.74207	52.93275	1.21282	0.73455	1.21282	71.62714	90.34647
0.07007	1.09573	1440.133	1577.646	1.2854	0.00013	1.2854	1320.492	1700.654
0.7622	1.07449	137.2467	146.2829	1.13285	0.73155	1.13285	112.3825	125.3219

0.37448	0.83097	215.0724	176.1369	1.15927	0.41515	1.15927	197.9869	228.4755
0.75592	1.01677	4302.695	4391.291	-1.05059	0.2879	0.95185	3975.884	3780.579
0.00082	1.15077	6245.652	7189.396	1.00341	0.95561	1.00341	7088.125	7104.518
0.95245	0.97195	87.53508	81.90781	1.31291	0.64961	1.31291	60.77422	80.60753
0.42176	0.96216	6308.477	6077.145	-1.13851	0.01415	0.87834	6119.176	5372.376
0.06187	1.12286	6022.435	6771.955	-1.16225	0.00199	0.8604	6791.062	5843.405
0.78316	0.98314	711.1511	699.6936	-1.10595	0.29798	0.9042	692.0402	623.2612
0.00003	1.2248	4825.197	5906.598	-1.94187	1.46E-10	0.51497	5036.454	2580.907
0.68844	0.9813	56401.3	55340.12	1.06343	0.27148	1.06343	66942.41	71139.11
7.64E-07	0.65227	3083.935	2007.929	-1.05382	0.40942	0.94893	2396.771	2274.059
0.01634	1.33024	18987.45	25186.81	-2.49494	1.31E-10	0.40081	34362.79	13356.63
0.82204	1.04841	207.0072	213.5266	-1.01625	0.85476	0.98401	433.9135	427.1437
0.00459	0.68051	3872.471	2639.467	-1.05682	0.62712	0.94623	3258.342	3081.004
0.06739	0.7252	482.2964	340.6801	-1.18363	0.2182	0.84486	496.657	422.8246
1.83E-06	0.69011	3025.895	2084.407	-1.11107	0.25735	0.90003	2392.167	2144.128
0.95313	0.99257	3375.585	3412.937	2.21854	2.15E-17	2.21854	3661.861	8085.418
0.1406	1.10084	584.7955	643.2407	1.15107	0.02828	1.15107	668.3073	769.6905
0.09105	0.86922	2257.212	1954.876	1.19339	0.00088	1.19339	1924.411	2296.686
0.88224	1.02088	396.326	407.5519	-1.17982	0.17522	0.84759	323.0593	273.7065
0.00002	0.80859	1044.798	844.7606	1.05177	0.49612	1.05177	844.8994	886.6437
0.54505	0.95292	421.7506	401.907	-1.2571	0.00904	0.79548	487.1721	387.7134
0.41238	0.94991	1363.397	1293.14	1.55252	2.12E-15	1.55252	1196.488	1857.646
0.80077	1.0589	137.2529	144.4932	1.17208	0.48863	1.17208	145.7968	171.209
0.36984	1.1639	198.4238	231.3676	1.04498	0.78247	1.04498	238.1723	247.9529
0.35316	1.22121	146.347	180.2528	1.42836	0.06425	1.42836	154.7795	221.5282
0.40448	0.94939	825.9202	782.886	-1.21043	0.04802	0.82616	794.9873	659.1818
0.00022	0.73407	2734.575	2003.494	1.36046	0.00022	1.36046	1948.656	2660.445
0.05835	1.09453	4087.391	4474.73	-1.13507	0.04386	0.881	4058.039	3567.87
0.03571	0.87805	975.6243	856.3867	1.49125	1.39E-10	1.49125	787.3116	1172.92
0.94632	1.0085	3356.785	3405.092	-1.61034	2.91E-23	0.62099	3808.136	2367.063
0.31319	0.80428	382.3194	294.8611	-1.11748	0.31736	0.89487	504.8129	454.0176
0.72712	0.87697	113.1688	100.1282	-1.07994	0.77384	0.92598	125.7085	116.4716
0.86829	1.02225	314.7253	320.6166	-1.01737	0.90796	0.98293	275.4085	270.543
0.84437	0.88922	73.92554	71.13443	-1.14074	0.75379	0.87662	93.50811	81.99696
0.0491	0.92	2233.7	2054.884	1.09096	0.05457	1.09096	2032.469	2217.238
0.65858	1.03863	429.0851	445.7701	-1.00315	0.96846	0.99686	471.1868	469.5538
0.51026	0.9197	895.1951	814.0416	1.06221	0.65256	1.06221	804.5671	861.1963
0.02479	0.71073	659.709	461.2265	-1.05954	0.60854	0.9438	638.7745	606.5501
0.19485	0.86333	1289.674	1101.924	-1.25259	0.00351	0.79835	1157.255	926.2369
0.04842	0.88567	2345.188	2083.347	-1.11171	0.02342	0.89952	2548.886	2293.68
0.06503	1.15138	508.3231	584.376	2.76814	1.54E-13	2.76814	462.1523	1282.459
0.34453	0.92085	1789.434	1652.198	1.36486	2.44E-10	1.36486	1621.585	2212.969
0.00398	0.73454	362.1964	265.5131	1.21112	0.14385	1.21112	280.6702	339.8449
0.46886	1.17251	291.0954	330.4531	1.44095	0.00123	1.44095	267.186	384.5278
0.00002	0.63811	10757.72	6837.881	-1.53391	0.00017	0.65193	9669.115	6239.281
0.2264	0.72912	256.4972	181.0204	-1.04834	0.80484	0.95389	172.9262	165.006
0.01925	0.83868	985.3099	825.082	1.17769	0.05382	1.17769	898.6737	1055.738
0.9531	1.00331	1694.591	1696.946	-1.09808	0.07917	0.91068	1784.999	1628.067
0.03733	0.84384	3569.41	3001.756	1.09071	0.42901	1.09071	3123.455	3408.261
0.13339	1.12378	2298.397	2596.413	1.00951	0.90016	1.00951	2403.888	2432.056
0.17259	1.08285	621.7552	673.4051	1.26721	0.01482	1.26721	632.3416	798.377
0.18433	1.06663	1088.79	1161.758	-1.18393	0.01201	0.84465	1097.714	928.2696

0.14242	0.84374	1223.735	1032.849	1.48387	2.73E-11	1.48387	942.3743	1396.705
0.94844	0.99668	3537.276	3537.003	-1.07923	0.24562	0.92659	3381.115	3107.261
0.7531	0.98195	785.2915	771.7051	-1.293	0.00918	0.77339	798.9788	615.5098
0.02422	1.13937	1063.703	1211.522	1.41916	3.37E-06	1.41916	1023.78	1450.602
0.09982	1.30762	412.0847	528.5518	1.62104	8.43E-07	1.62104	367.0612	593.5867
0.20526	0.71709	181.8376	130.682	-1.26264	0.50254	0.79199	155.4399	122.8897
0.76377	0.97443	714.1885	699.0863	-1.10155	0.14949	0.90781	750.3579	680.6092
0.16866	1.09048	3103.496	3379.75	1.09611	0.33062	1.09611	3306.592	3615.222
0.94449	0.99481	572.7124	570.6175	1.05207	0.69196	1.05207	586.9205	613.9233
0.88566	1.01249	551.1439	556.2257	-1.2604	0.00329	0.7934	627.2244	498.2684
0.10231	0.65541	9523.643	6186	-4.24037	7.02E-23	0.23583	3722.948	827.6633
0.95935	0.99245	643.2067	646.6282	-1.09017	0.3067	0.91729	837.3666	766.6085
0.66749	1.02297	1382.82	1414.782	1.16531	0.0229	1.16531	1230.934	1432.437
0.00464	1.35577	3914.689	5279.303	-2.82926	3.18E-10	0.35345	6919.956	2360.264
0.64771	0.95646	1108.393	1064.54	-1.27738	0.00045	0.78285	1071.12	839.8654
0.82649	1.03067	658.9925	687.704	-1.38053	0.00493	0.72436	623.5294	449.0501
0.22082	0.90437	639.0018	576.0664	1.05297	0.60224	1.05297	524.8927	551.0857
0.26376	0.91485	442.4875	404.5313	1.02006	0.83234	1.02006	424.7462	433.578
0.36668	1.06194	1950.905	2059.226	-1.04585	0.37933	0.95616	2544.079	2431.776
0.97578	0.9963	948.0163	950.1213	1.20857	0.16402	1.20857	870.6162	1048.059
0.32724	1.06271	837.5548	889.1092	1.06028	0.39796	1.06028	713.287	755.6069
0.66583	0.93677	292.9082	277.04	1.06964	0.65879	1.06964	253.7872	272.4951
0.30216	0.90333	1576.482	1430.405	-1.05031	0.49394	0.9521	1536.153	1458.315
0.34444	0.9392	832.6449	780.2498	-1.01542	0.82933	0.98482	788.1487	774.9099
0.2002	0.79236	1094.299	854.3999	-1.01786	0.85708	0.98245	908.4341	895.62
0.79717	1.0157	3209.654	3274.239	-1.0744	0.26692	0.93075	3379.973	3150.42
0.14536	1.12919	1621.267	1829.039	1.08647	0.16665	1.08647	1625.623	1765.432
0.57513	0.94683	17516.02	16684.23	1.55175	1.84E-11	1.55175	17799.79	27640.68
0.00008	0.58767	1036.084	602.4955	1.04415	0.63223	1.04415	805.1868	843.7999
0.77918	1.02557	2758.97	2833.733	-1.2132	0.00512	0.82426	1904.852	1570.576
0.2547	1.08207	2692.378	2952.841	1.17672	0.00904	1.17672	3856.907	4554.759
0.6459	0.97632	3710.568	3630.005	-1.04246	0.48209	0.95927	3508.388	3363.047
0.38825	1.04659	6615.513	6939.455	-1.06059	0.36373	0.94287	7590.376	7145.141
0.73448	1.09105	128.1758	139.1938	1.84482	0.00014	1.84482	168.2375	309.86
0.77738	0.65096	29.46239	24.25385	-1.46247	0.7296	0.68377	46.38322	30.40979
0.95377	1.04482	40.9417	42.61366	-1.05474	0.96524	0.9481	26.5061	31.7618
0.11851	1.25694	212.7797	268.762	1.18893	0.30252	1.18893	257.7858	306.8029
0.89205	1.01227	736.028	748.1452	1.07859	0.41331	1.07859	675.3113	725.9657
0.20046	0.91598	5064.764	4656.593	1.35986	1.64E-07	1.35986	4605.287	6255.187
0.89377	0.98768	5750.337	5658.009	1.44436	1.87E-06	1.44436	5056.617	7352.778
0.20715	1.07307	2348.186	2523.058	1.1269	0.10428	1.1269	2462.681	2779.494
0.93571	0.99607	1975.862	1966.769	-1.16868	0.00177	0.85566	2124.168	1820.045
0.01098	0.86771	2384.848	2069.811	1.98234	1.61E-20	1.98234	2057.75	4085.205
0.00577	0.77626	2759.282	2141.775	-1.31751	1.59E-06	0.75901	2294.841	1741.108
0.3341	1.0486	2037.71	2137.116	-1.38934	0.00003	0.71977	2016.874	1458.423
0.36399	1.1004	2584.241	2844.118	1.24605	0.0631	1.24605	2434.074	3042.014
0.77309	0.98108	1152.122	1131.106	1.21797	0.01063	1.21797	1437.458	1750.869
0.73403	0.97947	615.7187	603.1043	-1.07585	0.34917	0.9295	633.2504	589.0628
0.26352	1.07649	2841.794	3054.4	-1.02265	0.67156	0.97785	3053.799	2993.77
0.00118	0.84154	3525.331	2969.894	1.11621	0.1127	1.11621	2909.154	3251.973
0.92948	1.0474	54.7664	57.62051	-1.48104	0.73194	0.6752	43.23613	28.26386
0.90941	0.99383	6475.285	6515.875	-1.14833	0.0214	0.87083	6832.747	5939.232

0.34117	1.1269	278.7726	314.1448	1.08554	0.20005	1.08554	596.7715	647.7731
0.29836	0.9389	1220.756	1144.578	1.00573	0.92056	1.00573	1132.102	1138.812
0.69411	0.97996	2967.925	2902.911	-1.04964	0.33787	0.9527	2976.469	2831.29
0.60281	0.94757	362.2607	343.7567	1.12403	0.36885	1.12403	354.9332	398.5491
0.87902	0.98494	1311.909	1283.79	1.05712	0.38752	1.05712	1282.968	1358.083
0.64223	0.94992	9527.241	9117.221	-1.22081	0.02533	0.81913	8621.648	7015.002
0.10166	0.79854	758.9464	611.5724	-1.39522	0.00077	0.71673	628.5806	448.9554
0.21271	1.07872	1031.239	1109.727	1.0871	0.29036	1.0871	979.7395	1061.762
0.62201	0.9579	2118.817	2048.086	-1.40603	0.00002	0.71122	1927.589	1361.671
0.34447	1.05238	1178.511	1239.825	1.31678	6.80E-06	1.31678	1094.067	1439.744
0.00144	0.7876	1767.396	1390.042	1.16589	0.14578	1.16589	1602.143	1867.383
0.0707	1.14835	877.4852	1005.357	-1.0695	0.2697	0.93502	919.8492	859.7097
0.67221	1.02894	2541.124	2632.112	-1.18916	0.01227	0.84093	2385.327	2006.329
0.20649	0.77472	6887.783	5008.543	-1.99906	3.35E-07	0.50024	5049.207	2490.101
0.04356	1.09804	1935.851	2123.441	1.13184	0.01654	1.13184	1865.926	2110.212
0.30682	1.04281	3460.021	3608.004	-1.19867	0.00002	0.83426	3421.52	2854.225
0.95083	0.99419	818.5975	810.7635	1.44224	2.97E-07	1.44224	755.8797	1088.24
0.9462	0.98783	317.3143	305.0137	1.03133	0.80966	1.03133	347.3974	356.5584
0.62538	1.03103	4699.536	4830.789	1.04725	0.28224	1.04725	4993.452	5227.981
0.153	1.07974	906.153	978.068	1.17533	0.00299	1.17533	955.2064	1123.29
0.7441	1.03695	591.3625	609.3108	1.08377	0.48512	1.08377	532.348	579.2366
0.00003	0.60723	5958.429	3590.34	-1.50934	8.45E-07	0.66254	4162.651	2758.068
0.06232	1.08418	5841.065	6336.986	1.20008	0.00025	1.20008	5881.717	7061.793
0.0921	1.12413	1651.857	1858.654	-1.08267	0.22048	0.92364	2053.788	1893.609
0.00261	0.78793	16938.18	13316.39	-1.83891	2.59E-15	0.5438	16370.46	8851.55
0.95417	1.00317	1131.802	1133.619	-1.09578	0.08414	0.91259	1154.446	1054.061
0.35173	1.10032	9179.068	9969.02	-1.47713	7.94E-07	0.67699	15181.87	10207.3
0.36876	1.06048	2194.317	2331.632	-1.2765	0.00141	0.78339	2883.851	2252.02
0.89461	1.0212	223.6801	227.1756	1.03264	0.89902	1.03264	171.525	174.8861
0.69581	1.02303	1160.278	1186.222	-1.09346	0.36792	0.91453	784.9618	715.6904
0.50467	1.13075	231.8394	262.0665	1.10536	0.20266	1.10536	467.0989	516.0549
0.4655	0.95679	5420.562	5178.356	-1.00658	0.91184	0.99346	4601.45	4587.032
0.52913	1.08999	2225.02	2448.406	-1.42004	4.11E-09	0.7042	2174.816	1530.692
0.00119	0.82154	12270.96	10059.91	1.01494	0.72184	1.01494	12106.71	12288.38
2.68E-08	0.73749	2537.833	1872.306	-1.30278	6.29E-09	0.76759	2121.929	1628.995
0.73058	0.9807	914.114	895.8528	1.00703	0.93648	1.00703	786.868	794.7983
0.31576	1.07896	1032.351	1111.303	-1.03362	0.56618	0.96747	2075.611	2003.53
0.09191	1.09415	4394.762	4819.427	-1.06418	0.20709	0.93969	4757.465	4466.423
0.0287	0.77884	833.844	643.6325	1.24477	0.01911	1.24477	700.1769	875.0737
0.00053	0.7657	2460.951	1893.125	1.25625	0.00577	1.25625	2025.84	2538.626
0.01643	1.13639	3007.197	3416.034	-1.07309	0.11671	0.93189	3759.397	3506.11
0.92755	1.0092	712.667	723.9265	-1.13839	0.05859	0.87843	674.4155	592.6812
0.77138	1.01681	4744.319	4811.529	-1.18739	0.00005	0.84218	4948.304	4165.456
0.30845	1.04714	3089.474	3238.447	1.0114	0.83006	1.0114	3610.838	3651.45
0.17578	1.12081	529.1767	591.8248	-1.02163	0.84039	0.97883	396.2883	388.1713
0.02152	0.77111	829.9685	635.9509	1.36806	0.0019	1.36806	748.7204	1027.655
0.88225	0.93485	74.84985	69.19066	-1.09418	0.82337	0.91392	103.7256	96.30763
0.85244	1.02206	1501.527	1548.692	-1.32747	0.00249	0.75331	1393.434	1048.016
0.04372	1.16174	6427.315	7423.316	-1.03531	0.67985	0.96589	8256.969	7920.499
0.00099	0.51736	1577.973	782.4444	-1.25779	0.07395	0.79505	944.851	755.0866
0.55559	1.02771	2805.82	2881.257	-1.01726	0.73584	0.98303	3124.177	3068.274
0.62244	0.90223	438.109	405.2142	-1.96752	0.00058	0.50826	308.8445	158.444

0.01059	0.8773	3389.357	2975.322	1.27446	0.00077	1.27446	3265.881	4182.462
0.99167	0.99195	46.03967	45.80279	1.91807	0.3181	1.91807	48.71223	92.1083
0.00013	0.65772	3130.903	2053.491	-1.16359	0.11124	0.85941	2505.883	2154.774
0.00321	0.48489	681.1708	314.9005	-1.279	0.17812	0.78186	505.4158	402.5742
0.59455	0.89555	2105.324	1849.017	-1.59119	2.27E-08	0.62846	1884.042	1182.042
0.72681	1.02528	1212.287	1244.504	-1.47752	1.42E-12	0.67681	1205.279	815.5017
0.00699	0.83857	6551.551	5488.313	-1.29512	0.0002	0.77213	6333.431	4895.441
0.86617	0.98146	1799.977	1755.249	-1.53335	8.94E-08	0.65216	1688.792	1103.538
0.60423	0.96009	982.5388	947.7821	-1.04656	0.5846	0.95551	933.7396	890.0308
0.95661	0.97848	129.0331	132.5891	-1.22509	0.74923	0.81627	81.44348	64.58702
0.81721	0.98503	1501.646	1472.808	1.11947	0.0186	1.11947	1404.75	1573.172
0.83445	0.99049	2340.711	2320.958	1.37296	6.03E-13	1.37296	2343.93	3217.407
0.99899	0.99992	4604.226	4613.947	1.17206	0.0001	1.17206	4312.453	5054.52
2.12E-06	0.68795	4243.303	2920.064	1.04181	0.36586	1.04181	3622.812	3775.238
0.48567	1.13416	1435.026	1633.254	2.02198	0.00018	2.02198	1259.738	2651.914
0.09255	1.12904	2802.522	3166.765	4.09055	0	4.09055	2587.026	10614.46
0.8548	1.01438	645.7169	656.9247	-1.06652	0.52622	0.93763	665.5278	621.9756
0.70559	1.09317	130.9888	142.5003	1.3493	0.54717	1.3493	79.66488	106.1351
0.73208	0.95807	671.8433	637.6812	-1.03355	0.72621	0.96753	651.613	632.5403
0.71932	1.07832	154.2375	165.857	1.02782	0.90231	1.02782	149.8903	154.1462
0.96089	1.01476	124.0593	123.8279	-1.03312	0.92357	0.96795	105.6705	102.9049
0.00524	0.77838	5201.179	4059.16	-1.24539	3.08E-07	0.80296	4519.329	3628.968
0.71276	1.1898	73.70244	86.09587	4.02748	0.00083	4.02748	59.08253	237.8822
0.73662	0.98426	2037.615	2004.391	1.64485	2.09E-12	1.64485	2089.52	3429.819
0.24479	1.11835	1514.16	1707.442	-1.03701	0.65641	0.96431	1841.228	1767.665
0.03115	0.75816	3522.587	2673.978	1.25598	0.03334	1.25598	4028.329	5060.645
0.38783	1.1319	240.8291	271.0599	-1.08598	0.61184	0.92083	214.7327	197.817
0.00043	1.18431	1581.97	1874.251	1.15321	0.05088	1.15321	1913.29	2207.833
0.12645	0.88359	3052.673	2690.946	-1.05352	0.5564	0.9492	2932.071	2772.041
0.60872	1.05775	501.209	534.0411	-1.01265	0.89123	0.98751	1193.193	1174.414
0.28724	0.89113	1192.732	1065.076	-1.56498	7.35E-10	0.63899	1012.689	648.1487
0.18649	0.80467	1519.873	1205.095	1.25449	0.09573	1.25449	1190.491	1515.045
0.02229	1.12209	1204.628	1352.936	-1.02155	0.66478	0.9789	1291.517	1264.314
0.48035	0.84727	207.2125	171.6353	-1.05406	0.77411	0.94872	233.0945	222.5871
0.11213	1.21008	526.9927	632.0902	1.50929	0.00028	1.50929	450.1493	676.0198
0.05625	1.11055	4223.951	4727.763	-1.17514	0.0068	0.85096	6005.823	5118.017
0.00042	0.76182	5110.291	3875.463	1.15826	0.00294	1.15826	3962.529	4594.797
0.04395	1.31644	371.1019	482.6081	1.42751	0.00042	1.42751	353.2381	503.1675
0.99457	0.99876	175.8312	175.2253	1.08622	0.66002	1.08622	174.8922	189.6307
0.96637	0.94694	22.96843	24.97449	1.21411	0.87157	1.21411	34.72369	46.50937
0.66953	0.86974	139.4234	125.1805	-1.24406	0.4288	0.80382	135.8089	108.9701
0.39565	0.92752	570.0139	530.4658	-1.0314	0.74221	0.96956	502.8727	488.1779
0.63611	1.02732	1481.578	1526.886	1.01195	0.80918	1.01195	1461.62	1478.285
0.02548	1.16136	3150.588	3677.43	-1.26462	0.04362	0.79075	4389.088	3441.482
0.62536	0.96861	1874.378	1813.494	1.10342	0.04287	1.10342	1815.362	2002.762
0.86076	0.95808	249.4471	246.0597	-1.80299	0.0327	0.55463	209.386	114.7074
1.03E-16	0.60592	1845.078	1116.698	-1.05963	0.46537	0.94372	1473.123	1388.091
0.94233	1.00606	2460.057	2475.93	1.01567	0.71807	1.01567	2352.752	2389.39
0.02785	0.8792	921.3109	809.9478	1.52499	0.00004	1.52499	831.0645	1263.455
0.37113	0.9475	2427.812	2306.875	1.01694	0.78641	1.01694	2519.594	2553.332
0.77605	1.02442	1220.714	1240.798	1.36478	1.77E-07	1.36478	1180.59	1614.387
0.07747	0.90359	1040.521	939.4237	1.02737	0.62584	1.02737	964.0554	990.3126

0.58513	0.92895	481.307	451.659	-1.20374	0.10709	0.83074	426.3243	352.8721
0.65974	0.95145	537.0965	507.0833	1.33718	0.00011	1.33718	501.8229	671.5336
0.6822	1.02293	5164.967	5285.469	-1.2273	0.00003	0.8148	5301.727	4321.821
0.01891	0.75303	1098.019	824.4082	-1.22357	0.02026	0.81728	1227.579	1004.509
0.89728	1.00765	4433.456	4453.895	-1.0406	0.33987	0.96098	4305.298	4137.85
0.4763	0.89727	4273.437	3782.646	-2.00794	7.73E-28	0.49802	3272.397	1628.747
0.56068	1.03098	884.5399	911.6221	-1.00633	0.92968	0.99371	851.5249	844.725
0.65601	0.76804	122.0816	82.53687	1.30274	0.52212	1.30274	96.2476	125.4999
0.42213	1.05967	1081.831	1144.856	-1.12558	0.05993	0.88843	1016.708	902.353
0.02044	1.14229	2778.877	3180.12	-1.00046	0.99218	0.99954	3282.993	3283.311
0.34013	0.94381	1887.127	1778.834	-1.02012	0.82891	0.98028	1762.312	1733.731
0.00434	1.16782	1826.57	2129.411	2.21185	7.81E-11	2.21185	1624.761	3607.171
0.47442	1.04564	904.1261	947.4558	-1.13442	0.22093	0.8815	769.9907	681.7549
0.00164	0.45101	525.1334	236.8379	-1.64504	0.00417	0.60789	336.9648	206.1737
0.59244	1.11612	276.1454	311.7198	-1.21596	0.41261	0.82239	245.2118	197.0863
0.00888	0.58483	21356.25	12185.04	-3.64441	4.03E-16	0.27439	7293.939	1888.631
0.07521	0.91925	4580.408	4215.833	1.17205	0.00027	1.17205	5240.789	6143.221
0.73164	1.06218	237.0009	249.6003	1.04307	0.81462	1.04307	229.6114	240.3783
0.72576	1.03354	447.8785	464.6079	1.14213	0.25061	1.14213	366.3981	420.0806
0.75433	0.97543	481.6727	469.1241	-1.13476	0.1834	0.88124	413.0991	364.2178
0.05398	0.85929	7733.339	6618.239	-1.2094	0.00231	0.82686	7271.684	6008.162
0.28564	0.86382	362.4072	309.9262	-1.07752	0.46092	0.92805	473.1995	438.1177
1.84E-07	0.75557	965.7561	729.6903	-1.05265	0.56517	0.94999	891.1826	848.4565
0.54023	1.10829	333.892	363.4923	1.22834	0.23316	1.22834	266.253	329.6261
0.99557	1.00565	32.7718	33.73697	-1.12682	0.9022	0.88745	46.46113	43.68105
0.00314	1.14629	2652.233	3041.243	1.18463	0.00394	1.18463	2581.073	3054.082
0.30348	1.06292	3830.98	4058.784	1.00994	0.84745	1.00994	3916.457	3968.845
0.0542	1.11806	2507.79	2807.206	-1.13417	0.06827	0.8817	3275.014	2873.784
0.00944	0.65197	3780.584	2537.934	-1.7711	0.00001	0.56462	1847.507	1030.453
0.34074	1.08954	918.249	993.1973	1.01811	0.83198	1.01811	958.0571	980.1747
0.50527	0.96474	6816.39	6580.464	1.25105	0.00021	1.25105	6095.502	7620.822
0.17266	1.11825	364.0371	406.9014	-1.1434	0.27712	0.87458	323.0005	282.304
0.47854	1.153	133.4287	154.1829	1.16158	0.59943	1.16158	142.4	166.3726
0.00002	0.83413	4314.871	3598.852	-1.31903	1.86E-10	0.75814	4011.936	3041.948
0.02827	0.89096	2906.698	2593.298	1.17125	0.02277	1.17125	2770.463	3247.034
0.01147	1.15635	972.0757	1124.651	1.06691	0.1755	1.06691	1168.141	1246.297
0.70134	0.96346	9846.34	9533.324	1.33032	0.00018	1.33032	11423.3	15167.67
0.85859	1.0681	90.498	96.42427	-1.14288	0.52998	0.87498	182.5411	159.5731
0.14953	1.20923	694.8178	833.8865	1.78002	7.85E-11	1.78002	630.026	1126.088
0.84612	1.03788	195.5154	205.0748	-1.36088	0.31034	0.73482	150.3261	111.6166
0.32382	1.11776	3032.755	3425.012	1.50346	6.13E-10	1.50346	2657.581	4003.536
0.22158	0.92972	9856.178	9176.676	-1.26143	0.00004	0.79275	9104.473	7223.268
0.20715	0.9192	939.8513	866.1549	-1.12476	0.05992	0.88908	956.022	849.1168
0.65772	0.9044	180.4647	160.976	1.34229	0.21461	1.34229	141.0024	187.9892
0.96343	1.00511	402.1298	402.4609	1.04216	0.70764	1.04216	381.5398	396.5178
0.32076	0.91928	3268.694	3013.232	1.00611	0.93979	1.00611	2781.594	2795.596
0.62072	1.04021	1807.572	1886.406	-1.28741	0.0002	0.77675	1647.364	1278.374
0.87553	1.01063	1044.607	1059.32	-1.02761	0.7193	0.97313	1120.857	1087.865
0.9871	0.99809	746.5164	752.6978	-1.38181	0.00523	0.72369	790.3121	568.0018
0.67621	1.04068	2524.823	2609.191	1.53045	9.94E-19	1.53045	1345.468	2059.346
0.09323	1.08376	6375.497	6909.144	-1.10608	0.0141	0.90409	7789.253	7042.433
0.84969	0.9713	338.8329	332.476	-1.78133	0.01634	0.56138	309.3878	177.9717

0.84826	1.01221	963.0767	977.2742	-1.11564	0.12148	0.89634	1033.406	924.0335
0.05693	1.11916	2737.115	3054.077	1.53786	0.00171	1.53786	2402.616	3708.114
0.62708	0.95097	385.4108	367.8495	-1.08795	0.55904	0.91916	323.7477	299.3978
0.79766	0.95439	241.889	232.152	-1.12819	0.65145	0.88637	198.5918	177.0242
0.3992	1.07243	689.1835	736.1246	-1.03633	0.70954	0.96494	647.7893	622.7387
0.72993	0.94802	436.9291	407.2302	-1.08522	0.45594	0.92147	546.5078	506.0625
0.02257	0.77542	1758.448	1357.724	1.0727	0.48439	1.0727	1509.362	1623.307
0.00008	1.19606	4377.859	5237.541	-1.45417	1.67E-08	0.68768	6039.713	4154.763
1	1	19.29704	22.10073	1	1	1	18.37018	30.8335
0.01528	0.82331	1998.03	1633.141	1.19343	0.00043	1.19343	1929.652	2304.116
0.0093	0.72986	10258.62	7430.997	-1.5599	8.55E-07	0.64107	7543.502	4821.125
0.89346	1.02232	235.8517	242.9973	1.13207	0.4996	1.13207	230.5242	259.7386
0.97075	0.99575	281.4395	280.7075	-1.13519	0.64738	0.88091	248.7549	214.1124
0.00268	1.19473	1771.783	2119.695	1.18833	0.02138	1.18833	1724.418	2050.342
0.66297	0.97293	1003.588	977.9128	1.12363	0.12805	1.12363	856.2134	963.4863
0.22505	1.09573	790.1393	869.2313	-1.05031	0.5714	0.9521	946.4976	898.5772
0.50323	1.18309	111.157	131.3981	1.26678	0.40362	1.26678	105.9787	133.7889
0.01013	0.63899	5089.05	3183.229	-1.14353	0.33582	0.87449	3859.229	3363.181
0.91215	1.02564	169.3665	171.2232	-1.10057	0.70442	0.90862	144.6384	130.9619
0.43712	1.0571	935.8781	985.9436	-1.1356	0.05957	0.88059	986.3477	870.0895
0.43294	0.94704	7294.72	6927.063	1.7393	3.52E-18	1.7393	6760.819	11764.02
0.70692	1.02718	962.411	992.6924	-1.41221	0.00004	0.70811	938.8375	663.0315
0.43929	0.93029	471.2363	437.6406	-1.30325	0.06917	0.76731	380.8604	292.4299
0.05796	1.09652	1482.913	1624.507	1.05125	0.28022	1.05125	1667.815	1753.501
0.02999	1.10755	2404.481	2661.582	1.2386	0.00498	1.2386	2576.945	3189.744
0.89061	1.02307	462.9395	480.2708	-1.1676	0.34965	0.85646	310.8361	263.9213
0.10921	0.89731	9393.014	8438.063	-1.12635	0.03665	0.88782	8406.444	7464.873
0.32477	1.39203	117.2951	156.3256	1.78096	0.08061	1.78096	97.2015	170.607
0.222	0.80943	1012.638	831.5252	-1.98057	0.00057	0.50491	485.3575	248.6914
0.26429	1.09597	1880.279	2055.377	1.08051	0.28998	1.08051	2107.138	2293.435
0.82366	0.98596	1249.26	1235.895	-1.12977	0.07857	0.88514	1263.964	1116.418
0.95842	1.00706	1105.927	1124.088	-1.32325	0.00281	0.75571	859.4371	651.6264
0.64288	0.97044	3138.558	3042.943	1.30943	0.00012	1.30943	2625.459	3430.023
0.78195	0.98219	1393.398	1373.613	-1.03327	0.6441	0.9678	1406.96	1357.651
0.01499	0.66885	588.5651	385.7531	-1.38564	0.00188	0.72169	456.5117	328.7856
0.78492	0.96667	2562.284	2486.149	1.87749	1.89E-12	1.87749	2363.236	4453.437
0.65718	0.92284	21527.05	20082.5	-1.6725	4.31E-14	0.59791	15867.13	9450.414
0.58453	1.02693	3991.419	4091.846	5.62873	0	5.62873	4206.798	23681.05
0.10341	1.08402	949.2725	1029.04	-1.41085	1.21E-08	0.70879	1032.524	731.5248
0.03293	1.13962	1689.207	1931	-1.06156	0.41717	0.94201	1896.153	1787.987
0.67555	1.03408	389.9665	403.1665	-1.02982	0.778	0.97104	423.321	410.008
0.14036	1.17069	5471.834	6371.963	-2.50905	8.85E-37	0.39856	6285.839	2489.906
0.01335	0.82399	1415.709	1168.021	-1.26829	0.01822	0.78846	1250.051	984.6456
0.87394	1.01028	2960.509	2991.386	1.75551	1.76E-15	1.75551	2545.812	4479.861
0.16241	1.06024	8026.649	8508.791	-1.11587	0.04402	0.89616	8385.502	7495.986
0.72842	1.02622	1089.044	1110.619	1.16177	0.09776	1.16177	996.5645	1163.325
0.67141	0.96506	863.7311	831.2383	2.27803	0	2.27803	736.4312	1677.447
0.56996	1.0566	342.3087	361.6985	1.12898	0.37505	1.12898	341.1445	382.4616
0.78764	1.01491	6966.385	7065.638	-1.11698	0.04167	0.89527	6699.987	5988.842
0.37445	0.94678	962.5929	911.3159	-1.08031	0.18951	0.92566	1248.407	1153.617
0.50934	1.02941	1937.41	1994.308	1.43329	1.47E-08	1.43329	1718.395	2466.197
0.96156	0.99799	4029.154	4021.335	1.49139	1.48E-16	1.49139	4033.045	6015.043

7.49E-10	0.55872	1548.913	859.7669	-2.17508	9.92E-22	0.45975	1250.989	575.8047
0.00246	1.17229	2277.067	2672.22	1.16054	0.03439	1.16054	2594.619	2990.899
0.1202	0.85146	1849.115	1586.428	-1.03074	0.6345	0.97018	1934.633	1877.033
0.84545	0.98254	1094.255	1076.471	-1.31384	0.00233	0.76113	1143.378	867.5431
0.67085	1.05334	670.3473	699.3375	1.05682	0.45314	1.05682	701.126	742.2
0.69575	1.03698	826.4725	856.9673	1.03284	0.65777	1.03284	1257.02	1295.249
0.48994	1.05753	780.4598	828.6516	-1.14298	0.17852	0.87491	952.7372	829.8295
0.38345	1.09508	341.7172	373.01	1.02375	0.87602	1.02375	355.2898	359.9412
0.00668	1.13431	9718.292	11022.29	-1.28351	0.00041	0.77911	10919.41	8488.676
0.92813	1.01557	250.9265	252.0015	1.61017	0.00071	1.61017	256.028	413.7172
0.15576	0.87686	6781.292	5898.793	1.05761	0.39188	1.05761	4355.797	4601.204
0.87629	1.07198	68.76831	73.06975	1.02984	0.91538	1.02984	124.2941	128.4115
0.54347	0.6856	84.39029	54.4589	2.95331	5.51E-08	2.95331	91.61842	270.4456
0.08932	1.1492	725.7665	831.2842	1.24966	0.00054	1.24966	676.6588	845.1588
0.28716	0.90418	1165.702	1050.371	-2.83354	1.27E-18	0.35292	993.125	351.5473
0.7665	0.97715	769.0145	748.7645	1.20003	0.0075	1.20003	708.7894	851.7437
0.92891	1.0066	686.158	688.7922	-1.03891	0.5471	0.96255	693.043	667.3593
0.28973	1.04783	1636.13	1714.237	-1.02465	0.61182	0.97594	1555.011	1518.242
0.9096	1.01193	438.1258	445.7781	-1.13934	0.336	0.8777	420.0184	368.5275
0.61464	1.02468	1776.817	1820.865	1.1947	0.00013	1.1947	1647.871	1968.417
0.50123	1.08495	1761.165	1910.768	-1.81673	3.46E-11	0.55044	953.071	525.659
0.33716	0.95501	2594.893	2473.768	-1.06688	0.58491	0.93731	2598.117	2435.238
0.0807	1.11402	1504.694	1673.902	1.0501	0.30736	1.0501	1659.685	1743.643
2.25E-06	0.65346	1850.879	1207.203	-1.1752	0.00498	0.85092	1613.407	1372.906
0.06377	1.1134	1457.77	1625.454	-1.0004	0.99522	0.9996	1620.857	1615.979
0.00004	1.20877	2722.053	3289.779	1.07072	0.36478	1.07072	3359.167	3587.441
5.85E-08	0.59119	1739.081	1029.22	-1.48709	2.20E-10	0.67245	1624.864	1092.988
0.94022	1.00614	1305.585	1317.627	-1.37105	9.46E-07	0.72937	1670.867	1215.335
0.35598	0.92417	972.1753	899.6665	-1.50477	3.30E-11	0.66455	918.4301	610.468
0.01786	1.23908	10940.14	13375.47	-1.74336	0.00002	0.5736	20296.04	11371.46
0.39911	1.14056	252.4679	285.9755	1.03815	0.84082	1.03815	273.234	280.7983
0.48344	0.85519	166.2542	143.0039	-1.08683	0.71774	0.9201	154.4375	141.9436
0.24016	0.86592	3382.791	2931.759	1.25625	0.03481	1.25625	3155.75	3950.857
0.68873	1.07915	388.2211	403.0483	1.07206	0.45061	1.07206	672.0781	723.1213
0.14771	0.84645	3723.767	3164.73	1.15901	0.10778	1.15901	3328.065	3869.97
0.14411	0.93965	2943.898	2766.082	-2.42761	2.54E-32	0.41193	2534.719	1041.026
0.36578	1.09775	636.3647	702.8716	1.24289	0.00005	1.24289	1256.257	1561.313
0.97229	1.00238	615.2842	615.9032	-1.04522	0.50855	0.95673	685.7442	656.5501
0.18734	1.07725	734.3176	790.5986	-1.17679	0.02544	0.84977	907.7145	770.0404
0.00372	0.82595	775.5296	641.4148	-1.16874	0.10363	0.85562	661.5129	563.8926
0.69884	0.96658	1815.188	1725.267	-1.09865	0.13686	0.91021	3536.421	3202.257
0.40888	0.84252	643.7056	526.9067	1.31572	0.01813	1.31572	506.0573	670.2708
0.00324	0.76822	1535.622	1171.346	-1.1293	0.04622	0.8855	1231.877	1092.622
0.69889	0.84591	108.006	89.88663	-1.08131	0.90787	0.92481	58.40196	53.80809
0.85281	1.01811	616.057	623.8492	1.29826	0.00009	1.29826	700.2879	909.9691
0.98277	0.99645	303.5897	302.6984	1.05355	0.72662	1.05355	285.0259	299.8591
0.89887	1.0099	1340.439	1356.073	-1.24685	0.0115	0.80202	1257.581	1006.842
0.94774	0.96506	70.70921	67.20527	-1.29057	0.53208	0.77485	100.9383	78.40706
0.01282	0.80407	3160.311	2540.711	1.13822	0.00463	1.13822	2620.405	2983.21
0.12817	1.12053	7015.978	7848.606	-1.31852	0.00068	0.75842	6622.98	5040.054
0.19693	0.9204	2238.172	2056.836	-1.67217	1.28E-25	0.59803	2139.164	1279.587
0.9888	1.00929	57.66739	56.89405	-1.09603	0.91253	0.91238	45.09301	41.32661

0.40108	1.0558	2011.86	2119.373	1.04302	0.52702	1.04302	2232.486	2333.465
1	1	18.70673	24.39148	1	1	1	17.31171	28.77814
0.32342	1.15452	261.9668	303.5467	-1.16206	0.6597	0.86054	202.443	164.8766
0.08343	0.7844	873.0237	674.0133	-1.12354	0.29237	0.89004	654.2716	585.3376
0.77173	1.06969	132.0206	140.5022	-1.07446	0.74222	0.9307	159.6793	148.8236
0.97351	0.99702	589.0498	584.8589	1.14531	0.08796	1.14531	493.449	565.6866
0.34377	1.07196	415.6243	445.5788	1.0494	0.72756	1.0494	360.9974	381.5288
0.07827	0.85163	721.4252	611.9537	-1.17935	0.05253	0.84792	666.4628	563.7955
0.06054	1.09791	1558.062	1706.832	1.03372	0.41449	1.03372	1868.951	1931.55
0.39979	0.9117	1279.996	1165.567	1.11782	0.26084	1.11782	1138.57	1281.943
0.3761	1.0411	2132.086	2217.978	-1.0445	0.39336	0.95739	2251.283	2156.325
0.40259	1.04708	981.4378	1027.392	2.56881	2.74E-19	2.56881	834.9894	2150.844
0.87274	1.00894	3887.771	3934.738	-1.13844	0.03547	0.87839	4098.585	3595.074
0.0001	0.81803	4902.665	4008.75	-1.02365	0.64719	0.9769	4535.579	4432.526
0.95128	1.00967	206.6966	208.1751	1.01062	0.9614	1.01062	184.685	185.3001
0.09584	1.11933	1188.217	1328.313	1.47714	2.33E-08	1.47714	1096.1	1617.475
0.79717	1.02116	1323.431	1354.835	-1.11087	0.05978	0.9002	966.8001	870.6736
0.39417	0.94828	1650.158	1566.066	-1.35739	2.68E-09	0.73671	1449.809	1068.07
0.07355	1.09272	4676.973	5114.278	1.12344	0.02154	1.12344	5007.098	5622.589
0.93398	1.01003	296.3422	298.1982	-1.05175	0.77046	0.9508	286.9111	272.5899
0.20769	0.93855	25295.89	23777.21	1.33806	0.01145	1.33806	23817.23	31868.91
0.74041	1.03631	816.0355	854.1127	1.11521	0.28801	1.11521	836.1694	929.8455
0.98624	0.99786	261.8428	261.0737	1.10519	0.54646	1.10519	221.6391	245.2591
0.94675	1.00597	521.3903	522.5242	-1.22179	0.03116	0.81847	599.4401	489.2305
0.81187	1.03097	263.9255	271.1404	1.07437	0.53075	1.07437	285.7419	306.9717
0.59017	1.48027	48.91898	70.59368	-1.08749	0.95747	0.91954	29.48148	29.98815
0.01942	0.76581	6520.419	5046.192	1.18087	0.10747	1.18087	7322.831	8540.216
0.85465	1.01286	628.0194	637.0774	-1.04729	0.65884	0.95485	573.9016	545.3749
0.00004	0.61805	6580.449	4020.616	1.01621	0.86018	1.01621	4975.729	5056.23
0.181	1.10421	6109.758	6760.022	-1.71174	4.99E-11	0.5842	6000.021	3499.574
0.01516	0.89968	3127.318	2814.469	-1.09744	0.03089	0.91121	3162.148	2881.222
0.03959	1.23921	4360.212	5475.637	3.16508	0	3.16508	3761.47	11903.14
0.67093	0.89496	228.2015	212.3479	-1.78809	0.02886	0.55926	173.3379	96.56935
0.71786	1.02896	860.7112	885.2106	1.30084	8.19E-07	1.30084	922.9357	1200.781
0.04543	1.13841	1248.078	1416.849	1.04735	0.36652	1.04735	1288.316	1349.504
0.40979	0.83527	181.0732	152.7989	1.20142	0.45092	1.20142	148.1085	179.2928
0.03914	0.73751	1225.402	893.0872	-1.02911	0.81409	0.97172	1059.778	1032.483
0.57176	0.92509	541.8254	509.8229	-1.13202	0.1793	0.88338	719.0023	632.9077
0.18794	1.10346	651.8375	717.7365	1.14761	0.10026	1.14761	567.8078	652.9667
0.04833	0.7446	310.3487	229.2224	1.17427	0.33722	1.17427	217.7013	256.8026
0.49873	1.03476	868.4989	898.6251	1.07496	0.29452	1.07496	838.6097	900.5246
0.16267	0.7816	2438.475	1964.969	-1.47428	1.89E-07	0.6783	1327.171	901.5905
0.76881	0.93954	143.9008	135.5852	1.1098	0.71949	1.1098	117.0733	129.2598
0.01484	0.8223	3249.156	2667.204	-1.94574	1.77E-22	0.51394	3016.835	1552.662
0.26053	0.88558	451.9341	401.9035	-1.28217	0.00269	0.77993	552.5094	430.7682
0.63639	0.95949	2420.044	2314.947	-1.25578	0.00024	0.79632	2418.135	1925.817
0.04705	0.65606	6173.834	3951.344	1.24511	0.23412	1.24511	4030.465	5160.368
0.96899	1.00257	3700.783	3709.334	-1.09283	0.12414	0.91506	3416.211	3126.849
0.57668	0.89568	295.9011	266.3644	-1.13135	0.4359	0.8839	240.6991	212.4051
0.25533	0.94342	2874.25	2714.768	-1.09938	0.12008	0.90961	2583.029	2345.082
0.57341	1.03391	6679.753	6904.136	-1.00909	0.84746	0.99099	5143.813	5099.611
0.11386	0.86205	1453.044	1250.782	1.2523	0.00488	1.2523	1107.625	1391.605

0.66759	1.02695	1964.611	2008.515	-1.04801	0.28544	0.95419	2098.528	2002.403
0.58217	1.04556	596.5631	622.0945	-1.16273	0.03452	0.86005	566.4273	487.1979
0.22558	0.86078	503.998	437.9874	1.72631	1.99E-06	1.72631	367.2016	637.3976
0.00574	1.27442	719.7177	922.1828	1.1027	0.27728	1.1027	907.5275	999.0964
0.78478	0.96649	312.0482	300.3569	1.169	0.2188	1.169	320.8219	376.5048
0.97045	0.98177	71.43006	71.47233	1.39887	0.59049	1.39887	65.85254	94.95204
0.49704	1.07217	332.8823	356.4907	1.08194	0.4158	1.08194	343.9342	371.9981
0.94727	1.04004	63.05717	68.46985	-1.0797	0.88924	0.92618	71.50208	66.37208
0.82959	0.96586	351.0553	342.0544	-1.29033	0.09643	0.775	294.3005	228.8456
0.50396	1.03671	1678.276	1741.474	-1.2229	5.65E-06	0.81773	1809.354	1479.58
0.01686	0.75087	699.9341	520.3573	1.0316	0.75374	1.0316	557.6373	577.5234
0.82439	0.95857	672.1842	656.4938	-2.38543	5.01E-10	0.41921	421.8187	177.2425
0.00768	0.85651	3191.806	2728.699	1.36598	0.00111	1.36598	2582.467	3511.552
0.64513	1.07346	259.6405	279.254	1.16561	0.3318	1.16561	211.541	246.9901
0.99555	0.99298	27.54163	28.01127	-1.00236	0.99858	0.99765	22.75349	31.84742
0.17134	0.76947	306.7891	231.1692	-1.08994	0.56993	0.91748	261.7608	240.184
0.00522	0.86225	2488.184	2143.756	1.03821	0.5975	1.03821	2139.224	2218.286
0.73208	0.96861	720.5891	694.8916	1.37873	0.00384	1.37873	642.5753	891.0017
0.71531	1.0314	637.0369	654.3912	1.1709	0.02971	1.1709	566.5247	662.7568
0.4734	1.05598	1326.59	1406.243	1.20688	0.01913	1.20688	1047.83	1268.052
0.29559	0.88839	3026.481	2698.746	2.31781	8.33E-22	2.31781	2738.128	6375.526
0.23727	1.23577	148.4417	183.3948	1.29705	0.16584	1.29705	175.9132	229.0909
0.26856	0.92989	888.3898	824.1205	-1.07081	0.36638	0.93387	872.33	812.9896
6.96E-07	0.70492	11752.21	8326.285	1.12797	0.11423	1.12797	10197.65	11463.76
0.95834	1.00407	800.7645	807.3489	-1.01015	0.90969	0.98995	807.5126	796.6827
0.50701	0.84753	208.0811	171.6653	1.25859	0.2108	1.25859	175.4704	221.013
0.16412	1.06779	2297.048	2455.683	-1.24078	7.34E-07	0.80595	2543.162	2049.635
0.0838	0.75205	4284.422	3226.406	1.97569	5.95E-06	1.97569	3842.985	7733.915
0.00004	1.35638	463.5142	629.4943	1.15284	0.20794	1.15284	628.6632	720.79
0.14316	0.90143	582.5216	525.328	1.18369	0.04351	1.18369	469.4211	554.8931
0.19163	1.14736	326.6734	375.1387	1.21532	0.23637	1.21532	307.3891	368.8972
0.64094	0.65816	47.97638	33.03989	1	1	1	27.74344	33.4074
0.97066	0.9981	1664.183	1659.222	-1.04105	0.74553	0.96057	1600.337	1537.24
0.25313	1.09806	464.2764	509.0892	1.02326	0.76469	1.02326	566.2731	579.1766
0.22318	0.82642	9813.872	8278.724	-1.28353	0.00015	0.7791	6334.083	4915.355
0.00016	0.73492	3429.368	2506.398	1.11574	0.14905	1.11574	2728.46	3045.999
0.09218	0.88262	1253.761	1108.143	-1.64403	2.45E-15	0.60826	1466.139	891.7535
0.62533	1.06805	472.8972	498.9576	1.76262	1.70E-09	1.76262	421.1828	744.6696
0.57887	1.05434	5409.328	5743.043	1.34527	5.59E-07	1.34527	5093.015	6857.952
0.14491	0.86552	1191.493	1022.902	-1.01728	0.83276	0.98301	1060.255	1045.714
0.47417	1.05729	439.3698	464.9954	1.00206	0.9845	1.00206	485.5951	484.5375
0.00019	0.8518	6995.344	5953.873	-1.39051	3.83E-07	0.71916	4685.835	3368.42
0.64396	0.90164	144.0761	130.2062	-1.04815	0.85951	0.95406	148.1285	142.4253
0.21807	0.91518	760.2094	697.4433	-1.08147	0.46262	0.92467	673.1725	624.8467
0.39783	1.06776	3491.223	3711.632	-1.03715	0.54922	0.96418	3773.619	3648.832
0.08478	1.11872	3116.818	3472.1	1.08592	0.12243	1.08592	3681.96	3989.511
0.84047	1.03201	291.6189	301.2802	-1.37152	0.06928	0.72912	270.0002	197.4567
0.15683	1.09474	941.6887	1031.33	-1.03305	0.50443	0.96801	1504.044	1456.013
0.02184	0.83023	455.2238	378.221	1.08899	0.39487	1.08899	362.4506	394.2488
0.96901	1.00209	3682.748	3698.972	-1.01148	0.8222	0.98865	3553.143	3505.366
0.06077	0.85633	2836.163	2427.388	1.20844	0.00141	1.20844	2438.412	2943.5
0.21803	1.12116	507.9819	567.8913	1.06575	0.55434	1.06575	485.9424	518.8928

0.05075	1.14163	12810.87	14697.04	-1.20468	0.03535	0.8301	16259.17	13427.06
0.88745	1.01479	530.9961	541.5412	-1.12488	0.2585	0.88898	585.4451	518.0659
0.38596	0.7507	203.1137	143.1646	-1.04638	0.871	0.95567	172.8064	165.0731
0.53535	0.92311	8423.63	7858.469	1.09388	0.11432	1.09388	8333.592	9123.207
1	1	18.83518	23.23373	1	1	1	17.58963	29.08622
0.00133	1.16695	1608.695	1877.508	-1.39387	2.41E-08	0.71743	1560.412	1119.452
0.98498	1.01328	42.40103	42.51876	1.16208	0.87233	1.16208	32.75503	42.90022
0.10094	1.09371	2614.552	2869.261	-1.28031	0.00005	0.78106	2789.688	2170.22
0.0797	0.80516	40334.74	32574.29	-1.31165	0.00947	0.7624	39623.36	29979.13
0.35342	1.11095	978.6014	1085.999	1.51475	1.98E-06	1.51475	947.2095	1437.741
0.03548	1.24212	12079.23	14949.9	-2.15038	8.35E-07	0.46503	20420.3	9200.415
0.00396	1.25536	6057.439	7543.287	-1.52325	1.22E-06	0.65649	12237.9	8012.633
0.13018	0.79873	554.476	434.8238	1.33893	0.00066	1.33893	628.4745	843.6012
0.3563	1.0452	6788.543	7085.475	-1.05265	0.37967	0.94998	7238.54	6863.739
0.92515	1.01597	191.6085	195.0573	5.01568	6.94E-24	5.01568	300.6903	1506.641
0.66158	1.0361	636.1751	657.1521	1.48124	9.89E-07	1.48124	556.6127	822.9574
0.67424	1.02121	2650.907	2704.107	-1.05705	0.24009	0.94603	2784.153	2631.813
0.84381	1.0313	217.2196	224.5753	2.78926	9.22E-18	2.78926	194.0301	540.9846
0.68285	1.02492	1262.442	1296.951	1.03847	0.58732	1.03847	1312.982	1359.663
0.62281	1.02437	2043.91	2092.55	-1.11561	0.05756	0.89637	2321.211	2083.687
0.92439	0.98857	781.7325	768.1107	1.92061	3.85E-25	1.92061	675.7981	1297.755
0.92786	1.03112	128.82	131.926	-1.02125	0.92886	0.97919	150.1411	147.4896
0.77352	0.96699	5899.017	5744.078	-1.48772	2.10E-20	0.67217	5686.611	3822.707
0.60014	1.02624	3928.835	4042.146	-1.09163	0.11255	0.91606	3685.005	3362.502
0.82611	0.98791	890.7341	880.548	-1.2336	0.00077	0.81064	939.4799	760.8693
0.00294	1.16496	1095.636	1276.649	1.51175	1.82E-07	1.51175	984.5005	1486.264
0.00773	0.8357	1608.071	1342.184	-1.60707	4.62E-10	0.62225	1606.396	998.8314
0.81436	0.9866	3403.54	3369.74	-1.11718	0.07651	0.89511	3405.424	3045.95
0.57925	0.92745	298.4	276.7314	-1.0761	0.60567	0.92928	321.3259	300.0963
0.10575	0.80428	609.7356	484.527	1.07278	0.51083	1.07278	553.5571	596.7643
0.16544	0.84709	721.6617	615.8694	-1.13826	0.13777	0.87854	633.6232	555.4915
0.04573	1.16337	14002.1	16339.54	-1.4402	0.00042	0.69435	17371.87	11965.95
0.59381	1.06518	607.0253	651.8842	-1.03575	0.77084	0.96548	694.2172	666.083
0.00726	0.88941	4999.615	4446.394	1.12954	0.00347	1.12954	4559.631	5150.481
0.00217	0.8032	2134.145	1708.186	-2.6937	7.77E-18	0.37124	1838.974	682.6898
0.16877	1.09022	5179.136	5642.234	-1.06588	0.16797	0.93819	5778.154	5419.785
0.24388	0.9313	973.3716	905.7214	1.31609	9.41E-06	1.31609	985.752	1298.501
0.02758	1.13566	5117.624	5804.236	-1.35931	1.14E-12	0.73567	5487.292	4037.219
0.94685	0.98871	191.7609	188.7922	-1.07812	0.71173	0.92754	184.9809	172.2154
0.0004	0.7893	3236.607	2558.293	1.19668	0.00223	1.19668	2767.985	3310.233
0.62874	0.88265	127.5728	112.0859	-1.14892	0.77043	0.87038	106.5751	91.10401
0.38407	0.90921	417.1541	377.5012	1.28631	0.04857	1.28631	391.4359	501.9135
0.99103	0.99887	766.8623	760.2401	-1.04186	0.7651	0.95983	723.9788	700.5231
0.73442	0.98195	4252.09	4173.865	-1.05592	0.27426	0.94704	4628.749	4388.868
0.83923	1.01319	5482.189	5523.231	-1.07013	0.14523	0.93446	5254.697	4918.727
0.0991	1.13727	32168.97	36355.8	1.66223	0.00018	1.66223	32265.58	54117.08
0.94098	0.98772	244.7608	242.973	-1.05872	0.78473	0.94454	243.4818	226.7585
0.1081	0.89182	36277.77	32485.68	-1.52004	1.35E-11	0.65788	39631.46	26050.95
0.51747	0.96691	4379.686	4232.211	1.78396	9.29E-18	1.78396	4156.083	7409.314
0.01962	1.12642	1882.49	2122.111	1.06422	0.35687	1.06422	2157.079	2293.204
1	1	17.71003	22.6114	1.60181	0.79967	1.60181	18.33453	32.82846
0.13264	0.84887	968.5252	815.8391	1.15342	0.15333	1.15342	873.435	1013.653

0.83077	1.06956	109.2513	118.5396	1.11227	0.76828	1.11227	132.2493	142.0817
0.86513	1.01173	693.9977	700.8387	-1.02627	0.67954	0.97441	701.9982	684.1865
0.47748	0.96061	728.9708	700.3616	1.18721	0.05918	1.18721	628.0187	743.2951
0.80004	0.97791	1310.917	1287.262	-1.28665	0.00018	0.77721	1179.938	914.7672
0.00285	0.68276	865.692	585.3713	1.00004	0.99965	1.00004	632.8666	635.1158
0.15343	0.87934	2410.051	2123.708	1.79455	1.55E-23	1.79455	1967.793	3535.151
0.44375	1.09599	1966.077	2154.793	1.00946	0.83905	1.00946	5930.563	5996.718
0.00504	0.83889	1184.659	992.5924	1.0345	0.61736	1.0345	917.3406	950.1569
0.14958	0.70996	527.1327	359.9634	1.03712	0.86451	1.03712	393.6585	408.707
0.6404	1.06628	259.7213	275.9841	1.23302	0.2205	1.23302	254.7841	310.8282
0.00186	1.17927	1111.23	1310.188	1.73229	4.18E-07	1.73229	1027.581	1783.031
0.09949	0.77767	251.0179	195.3617	-1.20445	0.29854	0.83026	198.8399	165.0689
0.49007	0.95527	6644.667	6399.23	-1.10414	0.10188	0.90569	5946.452	5362.465
0.20437	1.21734	303.9459	364.3835	1.3981	0.00227	1.3981	311.1287	435.5815
0.87536	0.98922	18841.13	18725.85	1.11389	0.01144	1.11389	18784.55	20922.29
0.00179	0.76304	581.2936	442.3695	1.11345	0.38652	1.11345	399.7184	446.5642
0.55139	1.04169	2133.997	2207.457	-1.07021	0.22786	0.93439	2097.2	1955.536
0.00247	0.79275	1585.211	1255.909	1.31501	0.00017	1.31501	1256.959	1650.481
0.80217	1.03295	455.0976	468.8436	-1.00259	0.97759	0.99741	453.7203	451.9006
0.0571	0.90839	1293.023	1175.525	-1.08228	0.26223	0.92397	1155.53	1064.118
0.26731	0.91082	1042.361	945.5569	-1.06913	0.30894	0.93534	1010.045	943.7413
0.01323	1.38149	224.9558	311.7897	1.52171	0.00005	1.52171	290.0215	441.445
0.09846	0.89777	1110.853	996.2665	-1.15124	0.05054	0.86863	907.6077	786.872
0.77165	0.91268	119.0117	110.1982	-1.15916	0.72584	0.86269	101.1496	86.79385
0.82293	1.11801	62.99169	70.45371	1.16344	0.81773	1.16344	54.51558	63.63202
0.84811	0.91852	107.1627	96.98011	-1.10095	0.75167	0.90831	122.4264	111.7446
0.59823	0.94342	3775.738	3580.188	2.71976	1.02E-37	2.71976	3436.957	9360.787
0.98418	1.01678	49.56892	55.77143	-1.19476	0.80352	0.83699	60.75246	50.35796
0.00008	0.81064	2555.215	2072.371	-1.4339	1.70E-08	0.6974	2598.709	1813.641
0.18536	0.88636	24505.98	21809.95	1.25672	0.00798	1.25672	28202.11	35262.06
8.38E-07	0.75574	1294.383	977.6959	-1.17508	0.10169	0.85101	1150.82	973.8218
1.48E-06	0.53088	1053.413	551.8212	1.08497	0.34531	1.08497	726.6488	790.8559
0.01509	1.12247	2004.089	2248.314	-1.05205	0.25285	0.95053	2197.51	2089.309
0.15235	0.93655	72047.23	67455.23	-1.3126	9.46E-07	0.76185	81585.68	62229.44
0.48244	0.93609	1588.081	1483.622	1.53295	2.77E-10	1.53295	1415.056	2172.518
0.93954	1.02169	140.1824	146.3818	-1.02442	0.9202	0.97616	208.1381	199.2459
0.61461	1.08018	523.4107	574.4152	-1.2215	0.01004	0.81867	545.8803	447.0126
0.41326	1.04181	1000.507	1041.99	1.18923	0.00131	1.18923	1000.702	1190.397
0.4142	1.08638	609.4275	658.5279	1.23198	0.02797	1.23198	457.947	564.2789
0.63608	1.09595	156.8564	171.8503	1.01218	0.94464	1.01218	195.8026	197.8479
0.96106	1.00495	887.8449	885.3501	1.12244	0.09492	1.12244	904.0661	1016.974
0.32362	1.08813	915.574	994.509	1.00759	0.89005	1.00759	1399.335	1412.167
0.16195	0.81634	1358.82	1108.474	1.84808	3.74E-12	1.84808	1111.978	2056.331
0.60552	1.03364	1302.578	1349.353	1.05679	0.55154	1.05679	1551.047	1632.601
0.80946	0.92284	119.2619	110.5888	1.05569	0.86856	1.05569	96.15407	101.5402
0.52878	0.80112	102.0611	81.34068	-1.11594	0.80202	0.8961	88.84996	79.52286
0.93342	1.0038	3125.457	3138.952	1.12096	0.00674	1.12096	3263.794	3658.751
0.08771	0.78789	3449.457	2720.632	-1.03218	0.71301	0.96882	2792.428	2704.85
0.5481	1.1957	111.8031	133.8263	1.32887	0.37131	1.32887	100.697	134.5161
0.3836	1.11336	919.6597	1024.745	-1.1926	0.02966	0.8385	1327.794	1113.594
0.27613	0.88967	514.6257	460.9226	-1.1049	0.32772	0.90506	414.3379	375.3886
0.8864	0.97413	1891.367	1842	-1.51795	1.96E-10	0.65878	1855.469	1221.069

0.46029	1.08983	463.1251	500.4528	-1.00389	0.97253	0.99613	418.8292	418.7341
0.80405	0.94719	291.6	273.6174	1.5272	0.02949	1.5272	304.0429	473.0239
0.83593	0.94227	121.0862	113.7258	-1.13079	0.75896	0.88434	113.2972	100.9283
0.03995	1.226	315.3169	387.3671	1.02164	0.87011	1.02164	372.139	377.6776
0.15997	1.12694	764.8496	863.9631	1.58877	5.30E-11	1.58877	717.8272	1139.07
0.68749	1.07065	198.8986	214.2551	1.10946	0.62518	1.10946	171.105	189.1673
0.28134	1.08285	441.6957	478.1095	-1.01258	0.88143	0.98758	483.8712	478.3856
0.88177	0.94431	106.27	97.58863	2.80166	0.00054	2.80166	74.41174	209.17
0.75847	0.96232	349.4957	334.3743	1.04581	0.70249	1.04581	471.3377	492.5823
0.55606	1.04106	1945.459	2031.334	1.5113	6.25E-09	1.5113	2102.025	3180.164
0.70735	1.02174	1752.245	1795.054	-1.0236	0.6973	0.97695	1957.021	1908.916
0.20122	1.06059	1374.176	1457.471	-1.37455	2.26E-09	0.72751	1194.702	869.0806
0.71634	1.02169	1009.297	1032.856	1.1622	0.0946	1.1622	1183.58	1369.831
0.81307	0.71497	27.12057	22.02682	1.11126	0.94519	1.11126	21.96428	32.55919
0.07604	0.81627	323.7074	263.6669	-1.21515	0.21626	0.82294	236.7591	195.1317
0.36654	0.84382	752.1331	642.8881	-1.34188	0.00631	0.74522	793.1578	593.5253
0.44652	0.95575	984.3424	939.3987	1.1618	0.01034	1.1618	952.2993	1105.567
0.33325	1.07446	2059.112	2207.125	1.72034	0.00001	1.72034	1761.739	3040.42
0.20522	0.88978	500.1681	446.6461	1.21523	0.05937	1.21523	397.6683	481.9009
0.34708	0.94851	1694.57	1604.813	3.71732	0	3.71732	1846.319	6858.879
0.5697	0.94601	876.1774	822.8484	1.02766	0.79104	1.02766	815.6122	842.8874
0.55044	1.03741	593.7136	616.1627	-1.10673	0.17201	0.90356	651.7921	588.4038
0.0213	0.78156	4507.619	3523.54	1.0042	0.96977	1.0042	3942.817	3941.682
0.9364	1.00806	375.5073	379.7459	-1.12073	0.30915	0.89228	377.8978	337.2265
0.16013	0.9485	1393.415	1321.462	1.40932	1.29E-26	1.40932	1445.14	2035.29
0.12858	0.78824	668.1074	517.715	1.22803	0.17754	1.22803	446.5186	545.2714
0.94102	0.96899	93.18346	90.71312	-1.01635	0.9658	0.98391	104.4757	102.532
0.72734	1.02166	1619.143	1661.667	1.02204	0.62901	1.02204	2435.292	2489.654
0.97102	0.99649	906.9513	911.0673	-1.09977	0.36112	0.90928	819.7795	742.0742
0.0349	1.09392	5360.021	5861.389	-1.0387	0.4321	0.96274	5499.792	5293.546
0.5204	0.9442	1600.896	1507.187	1.08789	0.27968	1.08789	1484.364	1616.909
0.66186	1.02605	2443.586	2511.109	-1.12464	0.02971	0.88918	2511.018	2228.684
0.31265	1.10021	5277.529	5834.44	-1.2466	1.06E-07	0.80218	5885.755	4721.356
0.9574	1.00568	356.8293	359.9796	-1.17957	0.25509	0.84777	283.4335	240.7575
0.86164	1.01701	338.496	343.8986	-1.08695	0.30347	0.92	728.3578	668.6802
0.90657	1.00741	2763.191	2782.425	-1.84249	2.86E-37	0.54274	2962.071	1607.807
0.8335	0.98378	1342.4	1325.427	-1.05015	0.51613	0.95224	1175.515	1114.304
0.05544	0.78848	383.8309	300.7109	-1.42492	0.01437	0.7018	322.0869	225.3187
0.40007	0.87237	430.3393	368.6388	1.00739	0.93961	1.00739	373.4439	376.4867
0.14143	0.83399	529.4229	445.3812	-1.19451	0.03621	0.83717	526.1282	440.5218
0.04195	1.08785	5228.202	5687.264	1.01489	0.72755	1.01489	5284.365	5361.05
0.40006	0.90244	608.1735	553.7506	-1.03244	0.73553	0.96858	511.7054	494.311
0.00032	0.66706	4283.145	2862.159	-1.32405	8.70E-07	0.75526	3722.188	2813.295
0.65682	1.14439	134.2658	158.9565	-1.0756	0.67769	0.92972	301.0086	278.9374
0.01232	0.78914	374.2263	295.5411	1.33177	0.07212	1.33177	240.807	319.4887
0.47866	1.05414	509.0184	535.8165	-1.01691	0.86266	0.98337	507.0651	497.7366
0.08855	1.08507	6323.596	6864.92	-1.23002	0.00031	0.813	7402.598	6004.669
0.78441	0.75053	32.2853	24.12397	-1.05257	0.96985	0.95005	24.12045	31.6534
0.33496	0.95886	2572.445	2465.258	-1.08097	0.18286	0.92509	2450.438	2257.918
0.03203	0.61175	480.8889	281.6755	-1.01178	0.94603	0.98836	268.7822	264.9463
0.22249	0.85064	232.0767	197.4682	1.84175	0.00004	1.84175	189.9327	350.6386
0.00211	1.2746	758.4982	966.6614	-1.07494	0.31955	0.93028	1274.591	1181.019

0.02196	1.14574	9475.547	10833.88	2.17846	1.68E-15	2.17846	8847.604	19334.88
0.52407	0.88823	224.4226	200.3047	-1.06142	0.79748	0.94213	215.4807	206.0559
0.62953	0.88655	180.2656	163.4688	1.18513	0.59012	1.18513	137.5167	163.0685
0.45253	1.04722	925.1845	968.8684	-1.02562	0.64355	0.97502	1225.662	1195.058
0.03988	1.09296	4245.097	4639.572	-1.27851	4.09E-08	0.78216	4632.412	3622.487
0.9561	0.99594	513.7384	512.0607	1.50275	3.81E-06	1.50275	486.7892	729.8041
0.72415	0.9735	645.3993	630.0663	1.10813	0.38121	1.10813	570.2991	627.4445
0.03195	0.63077	1635.183	993.4423	-1.27812	0.13628	0.7824	1392.636	1084.747
0.35463	0.82253	159.3568	131.4646	-1.42492	0.23093	0.70179	173.1352	122.1598
0.86935	1.00985	876.0742	885.9376	1.00024	0.99658	1.00024	847.3596	847.4616
0.50838	1.0765	428.7485	458.4611	1.16352	0.04376	1.16352	454.5142	528.8276
0.33257	0.76909	309.2269	224.7421	1.26726	0.21169	1.26726	296.4808	382.7887
0.09558	0.77281	292.3392	224.2178	1.1766	0.31709	1.1766	249.4675	291.51
0.97615	1.03592	25.90256	26.75138	-1.07763	0.95248	0.92796	34.2994	31.73754
0.92794	0.97937	136.7097	133.4725	1.28936	0.38598	1.28936	118.6323	152.5971
0.08012	1.07471	7689.322	8265.036	-1.02714	0.70158	0.97358	8772.044	8527.063
0.85441	1.11306	59.89237	67.16018	-1.32435	0.65866	0.75509	74.77228	57.00568
0.01615	1.13918	2670.386	3041.21	-1.65787	4.03E-20	0.60319	2404.554	1450.724
0.01366	0.78889	556.5557	437.018	1.86033	2.13E-11	1.86033	451.7188	838.2754
0.59484	1.05495	1083.961	1141.174	1.49874	1.23E-07	1.49874	948.1187	1426.172
0.17994	1.11647	402.765	449.1278	-1.01448	0.90944	0.98572	413.4127	405.2738
0.02115	1.33703	268.3191	356.8328	1.50405	6.28E-11	1.50405	647.2075	974.1325
0.73992	0.80406	70.22833	59.17645	-1.10071	0.92376	0.9085	54.50758	44.77156
0.91383	1.03208	115.9684	119.8414	1.09887	0.69333	1.09887	124.0815	136.4305
0.09621	1.07446	2729.23	2932.557	1.31454	0.00029	1.31454	2625.107	3448.604
0.3334	1.10818	848.2401	933.9884	1.02072	0.79967	1.02072	897.4027	918.698
0.86781	1.08913	65.91559	70.7013	1.42117	0.51203	1.42117	54.25744	76.74453
0.27841	1.11486	1804.599	2024.658	-1.37857	0.00776	0.72539	2280.526	1648.622
0.88352	1.02748	212.3588	216.3647	1.29543	0.14509	1.29543	212.5765	277.3754
0.5251	0.8303	138.2703	116.3463	-1.13343	0.57626	0.88228	170.971	151.2747
0.08261	1.09507	2070.063	2263.802	1.03349	0.51526	1.03349	2395.445	2475.161
0.44956	0.93277	962.3335	894.8889	1.01502	0.87636	1.01502	829.0917	844.6771
0.12655	0.8721	1223.836	1062.932	-1.0637	0.32435	0.94011	1054.392	991.8768
0.55332	1.04416	523.4531	546.8691	-1.06127	0.65956	0.94227	469.3919	444.4548
0.21149	1.0607	10728.51	11373.54	1.16611	0.00379	1.16611	11135.81	12965.63
0.97333	0.99684	1734.31	1715.991	1.03754	0.51748	1.03754	1802.571	1873.139
0.26676	1.19035	327.9066	382.4792	-1.0137	0.93897	0.98649	367.025	375.8262
0.00001	0.77548	1304.862	1011.025	-1.22823	0.00026	0.81418	1106.729	900.7369
0.36922	1.11248	2137.258	2377.658	-1.11693	0.05288	0.89531	5491.96	4919.157
0.03052	0.69673	1101.13	752.4143	-1.24172	0.13317	0.80533	758.2107	614.9851
0.85092	0.98038	771.342	750.8065	1.08792	0.31412	1.08792	757.3479	826.2696
0.2513	1.05278	4111.332	4329.411	-1.12797	0.074	0.88655	4286.537	3793.196
0.0038	1.33008	645.1128	853.8992	1.62156	1.86E-14	1.62156	678.0242	1100.588
2.08E-07	0.54049	1807.427	966.2658	-1.19192	0.12308	0.83898	1360.256	1142.092
1.42E-06	0.62469	3709.296	2324.568	-1.67787	2.76E-22	0.59599	2738.192	1634.062
0.2219	0.84357	25723.62	21897.81	1.54196	0.00004	1.54196	22608.07	35276.34
0.59199	0.96427	2560.068	2478.562	-1.13669	0.06603	0.87975	2366.322	2076.937
0.25319	0.90984	2470.571	2244.388	1.69567	6.37E-12	1.69567	2526.695	4305.663
0.00142	0.70488	628.8522	439.9934	-1.25873	0.01574	0.79445	586.0869	466.9707
0.02046	1.10229	8421.778	9281.842	-1.1072	0.09995	0.90318	8991.36	8101.476
0.43803	0.9095	577.5362	529.9623	1.39342	1.51E-06	1.39342	510.526	711.0394
0.53175	0.86029	139.0422	119.1821	-1.03194	0.91915	0.96905	111.094	107.7335

0.65163	0.96155	758.1266	731.556	1.1458	0.1249	1.1458	709.3305	810.2681
0.54514	1.07727	343.1981	367.0757	1.14369	0.07211	1.14369	535.6794	613.1561
0.7603	0.97131	898.2315	871.4341	1.07376	0.26479	1.07376	1037.969	1112.983
0.2218	0.88923	674.47	602.3491	-1.10245	0.15674	0.90707	743.6871	675.1854
0.23551	1.06229	13690.56	14526.11	-1.08672	0.10906	0.9202	14303.05	13119.38
0.03284	1.22126	538.8596	655.2404	1.56254	6.19E-06	1.56254	505.7027	787.4984
0.00018	1.21286	5369.363	6512.689	-1.41757	7.35E-06	0.70543	6958.009	4875.994
0.81344	0.97749	3119.904	3062.261	-1.09768	0.03755	0.91101	2739.697	2495.931
1.13E-10	0.70182	1679.636	1178.941	-1.14901	0.0385	0.87031	1464.228	1272.065
0.1831	0.91579	1061.139	975.2452	1.2048	0.02925	1.2048	960.6411	1154.514
0.75011	1.05276	507.1423	524.5709	1.81403	8.94E-07	1.81403	424.7386	776.1899
0.90591	0.98835	620.3654	609.4772	1.37684	0.00003	1.37684	568.7191	784.2565
0.94915	0.94939	48.76372	46.18259	1.06353	0.92467	1.06353	51.55492	54.46612
0.60908	1.03261	707.1909	731.1948	2.14981	2.48E-30	2.14981	579.7795	1245.7
0.84731	0.98797	2982.295	2957.733	-1.06754	0.3817	0.93673	3062.311	2856.165
0.14166	1.11422	1727.987	1918.851	1.62441	0.00002	1.62441	1658.077	2719.045
0.07092	0.83906	4727.505	3989.47	2.89861	0	2.89861	4039.219	11716.09
0.08858	1.15558	379.0862	437.6194	1.02606	0.76838	1.02606	459.2648	471.2817
0.26134	0.93499	794.7249	742.9175	1.07835	0.55437	1.07835	911.7357	984.7674
0.84614	0.93194	127.5129	124.2042	-2.12124	0.22277	0.47142	93.75291	44.40329
0.00327	0.84862	5199.803	4415.124	1.21272	0.00375	1.21272	4297.881	5213.222
0.97694	1.00141	3389.018	3389.194	-1.09097	0.03948	0.91662	3807.263	3490.271
0.00019	0.76607	696.4454	532.6259	1.11231	0.18972	1.11231	583.3442	650.1
0.02267	1.11411	1496.791	1666.485	-1.07048	0.19936	0.93416	1448.877	1353.495
0.33987	0.9513	1569.373	1493.433	1.26467	4.63E-06	1.26467	1793.515	2267.394
0.61048	0.91042	167.5501	152.3497	-1.15507	0.6766	0.86575	108.4271	94.40038
0.72845	1.13913	110.6804	124.2965	1.15133	0.67095	1.15133	101.0791	117.1535
0.99835	0.99971	596.5029	588.9148	1.44855	1.23E-08	1.44855	498.8828	722.7013
0.62647	1.02935	913.3271	938.7	-1.04134	0.61049	0.9603	914.2637	875.1644
0.3295	1.12096	377.7695	421.2195	-1.09727	0.30857	0.91135	464.0264	423.4482
0.53697	1.04423	816.2058	852.3206	1.06754	0.36693	1.06754	1078.981	1155.869
0.81514	0.80267	45.66449	39.40814	1.17056	0.82866	1.17056	49.06084	57.45775
0.48337	1.04331	1567.487	1630.228	1.00234	0.96171	1.00234	1649.198	1652.693
0.77691	1.0662	358.3132	398.0279	-4.4631	0.0003	0.22406	256.2136	57.84045
0.50156	1.02833	3012.77	3098.479	-1.1242	0.00525	0.88952	3246.984	2888.388
0.83747	1.01297	4636.684	4713.246	-1.11963	0.02113	0.89316	4591.194	4098.283
0.46261	0.94153	417.7239	392.9273	-1.08068	0.58277	0.92534	380.8602	351.0284
0.53145	0.91286	309.4309	285.2888	-1.20023	0.27096	0.83318	243.6051	202.842
0.70294	0.84504	71.13353	59.78997	1.18788	0.74525	1.18788	72.36055	84.19261
0.06826	1.14153	8072.433	9181.205	-1.41881	0.00003	0.70482	11504.96	8075.845
0.68803	1.0493	247.4127	259.8831	1.10833	0.45197	1.10833	244.5623	271.4695
0.04055	0.86212	4741.148	4067.258	-1.17679	0.01104	0.84977	4072.12	3465.417
0.96676	1.05226	23.0867	25.49207	4.1171	0.16501	4.1171	17.68135	75.08659
0.16321	1.13451	515.5095	582.6072	1.46126	0.00034	1.46126	465.1333	677.0169
0.74569	1.01707	3184.916	3238.107	1.13302	0.0095	1.13302	3030.7	3436.302
0.03184	1.23947	22934.47	28403.53	-2.07527	9.86E-07	0.48187	33217.32	15624.65
0.23525	1.17277	313.1579	364.4058	1.03606	0.77489	1.03606	311.6404	323.3482
0.9506	1.00551	877.0796	884.0145	-1.16609	0.04717	0.85757	1294.55	1111.781
0.90489	0.95184	168.6888	145.045	2.86303	4.59E-06	2.86303	137.0106	398.0104
0.2761	1.08812	2198.01	2381.516	1.09784	0.09497	1.09784	2601.393	2863.526
0.05733	1.24396	7267.636	8990.522	-2.21165	5.49E-08	0.45215	9612.688	4273.571
0.14664	1.63877	95.44094	151.9082	1.96043	0.16966	1.96043	70.15276	133.0559

0.96268	0.99278	274.3337	272.958	1.03812	0.76835	1.03812	298.5549	309.1917
0.9195	1.01533	4928.904	5163.533	1.02546	0.80305	1.02546	4471.648	4596.774
0.30494	1.11492	364.6843	404.8263	1.00573	0.95235	1.00573	369.8151	372.0352
0.63888	0.94354	1486.499	1373.686	-1.49758	1.26E-11	0.66774	1982.249	1324.695
0.00018	0.63424	964.7407	607.4995	-1.69737	8.23E-06	0.58915	831.218	486.0968
0.73491	1.04686	311.3893	323.262	1.33534	0.00129	1.33534	447.4843	598.7725
0.4085	1.07324	2780.209	2990.786	1.92656	3.57E-43	1.92656	2427.001	4676.121
0.68688	1.11535	95.9982	107.1641	1.05713	0.92316	1.05713	84.84639	86.09799
5.06E-08	0.73493	2287.572	1682.96	-1.34614	3.10E-08	0.74286	1863.3	1384.102
0.37411	1.12417	5649.844	6389.691	-1.98589	1.66E-11	0.50355	5595.552	2820.708
0.29202	1.06588	1453.196	1548.536	1.16211	0.00589	1.16211	1480.978	1720.312
0.34026	1.07527	600.3959	643.8469	1.00142	0.98913	1.00142	628.9928	631.3595
0.23602	0.83467	233.9216	195.6697	1.17689	0.4159	1.17689	202.2097	237.5648
0.08826	0.82163	298.7235	245.3905	-1.27279	0.27107	0.78567	245.5088	190.3458
0.3967	1.05852	858.2388	906.0601	1.08812	0.12167	1.08812	899.8502	979.5037
0.5446	1.02921	1047.623	1078.265	1.02463	0.63203	1.02463	1058.936	1084.967
0.9012	1.0151	598.972	602.3825	1.1188	0.09735	1.1188	618.4851	691.7007
0.00002	0.64361	7124.334	4592.845	1.09336	0.43391	1.09336	5844.014	6389.623
0.03789	0.76311	3424.048	2588.539	1.21232	0.01815	1.21232	2827.689	3434.363
0.0979	1.08081	6610.567	7134.148	-1.03566	0.4917	0.96557	7476.676	7221.971
0.32111	0.8684	1377.664	1194.443	1.15264	0.00543	1.15264	1022.305	1178.576
0.02837	0.81303	1012.001	825.4974	-2.63172	1.69E-36	0.37998	851.7649	323.7605
0.00284	1.3552	712.4361	961.0891	2.021	4.37E-14	2.021	721.3915	1466.3
0.74574	0.96124	401.1223	386.6337	-1.08492	0.52284	0.92172	379.6464	349.5468
0.92118	1.01242	382.6487	384.3597	1.19463	0.08807	1.19463	373.6303	447.4462
0.65036	0.91037	188.7095	170.0926	-1.13535	0.54332	0.88079	176.23	154.9453
0.06765	1.13155	649.3479	733.9902	1.10345	0.2058	1.10345	550.8845	607.9075
0.63443	0.95648	913.0573	870.0123	-1.01087	0.87085	0.98925	836.8905	828.7074
0.00158	0.62584	375.7638	233.1013	-1.06719	0.67174	0.93704	249.7192	234.3934
0.28226	1.23738	21143.46	24903.07	-3.73274	1.61E-16	0.2679	37701.34	9755.787
0.05136	0.59422	388.9691	220.3472	-1.73621	0.01206	0.57597	266.3743	154.3268
0.94773	1.02342	88.01575	89.2967	-1.38546	0.62579	0.72178	67.52545	49.38386
0.66617	1.12178	153.1101	169.3835	1.41539	0.12102	1.41539	184.9208	257.3207
0.34337	1.12025	318.3044	354.6245	1.36404	0.00756	1.36404	256.1421	349.4413
0.02536	1.11575	3775.793	4209.528	-1.01971	0.7596	0.98067	4164.43	4077.001
0.61835	0.96518	1479.398	1422.361	1.10079	0.35612	1.10079	1406.481	1565.236
0.00718	0.837	4557.281	3814.471	1.19756	0.00009	1.19756	3635.123	4355.211
0.0197	0.74669	31589.68	23494.77	-1.32399	0.00009	0.75529	28289.84	21352.75
0.34579	1.07342	1708.596	1844.723	1.09449	0.06815	1.09449	1865.557	2041.462
0.74121	1.12059	108.8754	120.1633	-1.07633	0.64189	0.92908	245.6845	228.9144
0.85118	0.98188	479.5798	468.726	1.08754	0.35994	1.08754	468.4348	508.752
0.00943	0.67319	3126.912	2058.478	2.25128	1.07E-08	2.25128	2066.947	4804.121
0.31402	0.90026	1219.075	1102.964	-1.21306	0.00042	0.82436	1021.877	842.5149
0.01057	1.14837	1704.288	1957.297	1.06758	0.40706	1.06758	1407.785	1486.876
0.00476	0.81004	6834.156	5514.523	-1.02415	0.7026	0.97642	6129.557	5995.418
0.00148	0.71418	455.8142	324.1305	-1.09269	0.47755	0.91518	410.761	373.7302
0.92259	1.01316	897.6256	916.6085	-2.1459	4.67E-26	0.46601	980.9216	457.1559
0.42393	0.93559	4905.692	4569.994	-1.04109	0.46125	0.96054	4324.112	4158.947
0.11287	0.83912	2416.485	2010.147	1.13775	0.0418	1.13775	1712.255	1952.857
0.03961	0.89062	1648.888	1468.646	1.21591	0.00112	1.21591	1464.893	1778.77
0.38798	0.88891	241.2614	214.4754	1.0326	0.85454	1.0326	204.9579	211.0194
0.33645	1.09917	590.6687	645.4974	-1.06645	0.47702	0.93769	707.8423	665.4054

0.00042	0.69322	1747.129	1205.998	1.74925	6.80E-09	1.74925	1507.683	2646.58
0.11015	0.8284	360.3506	299.5432	1.17259	0.3376	1.17259	260.0085	304.7383
0.98741	0.99884	494.0709	493.4526	1.09029	0.29765	1.09029	503.8569	548.6401
0.89922	0.92388	63.7953	59.01366	1.00685	0.98971	1.00685	61.63654	62.17505
0.0126	1.35756	733.9866	987.6646	2.42522	1.99E-12	2.42522	699.7534	1717.694
0.07224	1.10309	866.6195	956.4839	1.00207	0.97233	1.00207	1076.863	1079.853
0.99563	1.00578	30.50908	30.65811	1.16131	0.82553	1.16131	42.96277	49.99997
6.39E-36	4.39012	31322.16	140453.8	6.11043	0	6.11043	41829.16	257384.3
0.41832	1.12017	224.2885	250.3675	-1.03379	0.82357	0.96732	248.877	240.5147
0.41606	0.83881	414.071	348.298	-1.53241	0.05453	0.65257	214.5642	140.76
0.28182	0.93204	17492.37	16320.89	1.49764	7.91E-12	1.49764	16174.46	24220.44
0.03841	0.8976	4091.356	3667.244	-1.13795	0.0032	0.87878	4058.875	3567.805
8.76E-16	0.59747	4122.736	2464.445	-1.6056	0.00004	0.62282	2829.889	1758.595
0.46342	0.88223	918.6158	821.155	-1.69768	0.00003	0.58904	599.8075	355.3651
0.58156	0.93834	597.7243	556.0018	1.19591	0.02279	1.19591	483.0417	578.1405
0.001	0.79732	1388.339	1104.741	1.16598	0.01224	1.16598	1087.428	1270.08
0.50855	0.84872	172.5442	148.6977	-1.33728	0.743	0.74779	103.9323	77.71911
0.04564	1.13867	1974.65	2238.648	-1.62948	2.94E-07	0.61369	3599.192	2203.749
0.74912	1.06238	156.0139	165.8413	-1.08234	0.80034	0.92393	134.4256	123.2541
0.13768	0.84418	451.218	378.313	1.28835	0.01371	1.28835	507.9869	657.3565
0.9397	1.00374	1267.943	1273.117	1.34581	0.00003	1.34581	1104.567	1488.088
0.03675	0.6452	321.0061	202.0451	1.11851	0.5066	1.11851	201.5243	225.0848
0.16722	1.13471	581.0649	656.6888	1.13935	0.06097	1.13935	1314.378	1503.061
0.00303	0.71324	791.0066	559.4438	-1.54804	4.65E-06	0.64598	632.7809	409.7905
0.91448	1.01804	1991.103	2008.576	-1.58203	6.16E-23	0.6321	3231.809	2041.73
0.10606	1.12347	1067.989	1201.888	1.2923	3.87E-06	1.2923	1106.52	1428.747
0.80427	0.962	301.6683	294.0396	-1.04778	0.73883	0.9544	261.3619	249.6807
0.73796	0.97558	655.0303	640.1846	-1.16293	0.07528	0.8599	540.1897	464.0001
0.98865	0.99353	78.61277	78.16966	1.56858	0.28137	1.56858	69.48235	109.8728
1.38E-06	0.58408	30355.03	17719.17	-1.14257	0.09281	0.87522	27198.07	23778.81
0.38278	0.90692	761.4939	695.3718	-1.09426	0.10835	0.91386	838.6109	766.4553
0.44203	1.10391	238.466	262.5598	1.05102	0.71365	1.05102	257.8817	271.5129
0.17472	0.67935	363.3308	234.4518	1.11423	0.58589	1.11423	320.3288	363.7748
0.93912	0.98084	166.2134	159.9988	-1.12359	0.67386	0.89001	196.0993	173.895
0.92751	1.00716	3870.039	3906.399	1.11485	0.04322	1.11485	3477.372	3875.414
0.8701	1.25103	19.34214	25.48257	2.23653	0.57075	2.23653	17.81673	41.10764
0.61964	0.96807	2950.714	2867.954	-1.2821	0.01497	0.77997	3315.093	2555.874
0.31543	1.11627	407.3692	452.1083	1.07506	0.54735	1.07506	329.5327	353.2344
0.0155	0.64338	239.505	154.4693	1.12191	0.5217	1.12191	186.7529	209.0104
0.02447	0.86107	754.0215	648.6884	-1.19801	0.01101	0.83472	843.7506	703.6087
0.51731	1.07571	446.1388	482.119	-1.05742	0.5455	0.9457	804.7723	758.0554
0.00151	0.79306	4378.338	3441.369	-1.14443	0.06489	0.87379	3543.413	3088.43
0.82885	1.01728	787.5226	804.5765	1.00215	0.97435	1.00215	803.5059	804.519
0.75224	0.9791	1603.049	1577.183	-1.18763	0.00944	0.84202	1582.187	1331.804
0.00179	0.71633	3102.54	2217.399	1.12362	0.28148	1.12362	2456.017	2783.498
0.78482	1.08173	141.9119	154.694	-1.15525	0.44917	0.86561	295.0664	251.3026
0.0484	0.84743	816.9916	690.0666	1.29298	0.00072	1.29298	688.7288	888.8253
0.84232	0.97207	3143.023	3081.521	-1.42461	3.18E-08	0.70195	3052.585	2141.592
0.54187	0.88956	173.2871	154.0131	-1.07356	0.77892	0.93148	160.3611	148.4393
0.94496	1.00693	648.9962	650.1227	1.14341	0.03814	1.14341	604.7238	691.5714
0.79739	0.93587	202.3309	198.1645	-1.07962	0.58493	0.92625	416.6254	382.3429
0.01065	1.32813	453.3924	597.7704	2.37972	1.02E-25	2.37972	381.5978	909.6497

0.6071	1.06447	308.4257	326.6796	-1.1569	0.36723	0.86438	295.5928	256.417
0.50337	0.89728	261.5195	232.9262	1.31912	0.03091	1.31912	313.3989	415.593
0.52333	0.91967	321.1486	294.8826	1.36163	0.00793	1.36163	332.4963	452.8185
0.62051	0.92651	222.2731	205.4526	1.11875	0.55688	1.11875	188.3622	210.4434
0.02504	1.40569	731.8009	1046.278	-3.13803	9.05E-13	0.31867	725.2147	228.3385
0.73703	0.97408	1944.164	1891.574	1.22962	3.18E-06	1.22962	1876.546	2307.545
0.06609	0.84441	20226.88	17189.59	1.38634	5.74E-07	1.38634	16638.04	23115.46
0.78676	1.01593	1990.601	2015.744	-1.02376	0.58841	0.97679	2267.844	2215.49
0.91276	0.9883	533.9304	523.945	-3.5076	1.38E-13	0.28509	491.0453	141.0905
0.49134	0.92694	467.5198	430.4096	1.12342	0.28636	1.12342	469.0737	529.4719
9.36E-07	0.62261	4234.876	2644.782	-1.10085	0.05992	0.90839	3020.711	2740.106
0.02972	1.11244	2964.394	3293.949	1.02319	0.63439	1.02319	3521.367	3605.008
0.03672	0.87821	2097.824	1847.829	-1.16444	0.00177	0.85878	2015.903	1730.465
0.46735	0.91546	291.857	267.1773	1.06978	0.5491	1.06978	302.827	323.7894
0.98535	0.9891	60.88018	62.09594	-1.11226	0.91549	0.89907	37.98368	34.49992
0.17809	0.88434	2266.676	2007.859	1.21465	0.00022	1.21465	2122.324	2575.472
0.04243	0.90323	2264.367	2045.834	1.03635	0.48552	1.03635	1999.848	2072.899
0.05831	1.094	1485.177	1623.719	-1.05426	0.45933	0.94853	1619.205	1534.485
0.96041	0.99626	612.2138	611.3922	-1.02451	0.78073	0.97607	603.755	587.86
0.96371	1.00372	413.4182	415.0761	-1.39876	0.00081	0.71492	448.5746	320.4517
0.63604	1.06852	458.9447	481.4883	-1.28005	0.00191	0.78122	664.6438	519.9496
9.25E-19	0.66763	3070.495	2050.144	-1.02811	0.74046	0.97266	2444.045	2367.216
0.03856	1.1035	4327.151	4779.647	2.23045	0	2.23045	3962.45	8837.956
0.1543	0.71679	249.4376	173.7375	-1.13704	0.55276	0.87948	224.6483	199.1797
0.4396	0.88582	315.4519	275.7571	1.0061	0.97121	1.0061	373.4141	371.1113
0.54432	0.9566	540.3505	516.9246	1.86734	3.91E-17	1.86734	404.1332	754.2864
0.96626	0.97548	54.21571	52.70195	1.32288	0.6299	1.32288	54.97181	73.75751
0.18334	1.06235	1632.469	1734.24	1.02926	0.572	1.02926	1663.486	1712.039
0.95895	1.00371	631.6185	634.8689	1.05557	0.7495	1.05557	424.154	456.2084
0.14625	1.10535	1117.074	1228.357	1.06599	0.2532	1.06599	1157.437	1234.927
0.48562	1.10312	763.2371	853.0675	-2.31351	4.12E-16	0.43224	609.4647	263.9341
0.05808	0.86426	775.7616	669.6693	-1.49239	0.00004	0.67007	1171.075	786.5855
0.00608	0.80757	885.6389	713.1158	-1.05379	0.48664	0.94896	729.8736	691.4911
0.1547	1.09778	3476.261	3821.31	-1.07232	0.1436	0.93256	3364.048	3134.176
1.29E-07	1.75525	728.0704	1278.383	2.33843	8.53E-39	2.33843	647.4816	1514.867
0.03638	0.83727	1085.433	902.2574	1.02794	0.76858	1.02794	888.5342	917.4075
0.13529	0.90887	1163.115	1055.707	-1.00655	0.92828	0.99349	1094.042	1089.112
0.78871	1.02582	349.4425	359.0057	-1.01904	0.91909	0.98132	315.1536	303.9769
0.9884	0.99911	2220.492	2207.672	-1.04375	0.31766	0.95808	2362.965	2263.912
0.00127	0.8446	1050.341	887.5363	-1.40408	3.22E-07	0.71221	955.0081	679.629
0.44306	0.89437	832.8912	752.5061	-2.66227	2.96E-07	0.37562	597.2214	229.2853
0.46604	1.06788	1927.267	2020.424	1.04865	0.48844	1.04865	2931.49	3072.726
0.7303	0.9709	1509.623	1467.019	-1.14946	0.03593	0.86997	1234.266	1074.601
0.62335	1.05435	404.2408	424.691	-1.13355	0.06677	0.88218	668.72	589.7858
0.53508	1.03303	1355.884	1402.924	1.04826	0.38033	1.04826	1500.96	1573.517
7.73E-06	1.24773	2265.086	2821.54	1.30326	8.53E-09	1.30326	3201.461	4172.014
0.82675	1.06277	106.5102	112.5587	1.22262	0.49637	1.22262	98.49303	120.6538
0.61987	1.08398	245.0331	268.4887	-1.88155	0.02786	0.53148	171.8736	91.54314
0.28639	1.13318	234.4334	265.8403	1.04587	0.76649	1.04587	241.7089	252.4158
0.18124	1.11623	1928.737	2110.518	1.07226	0.16488	1.07226	2115.106	2269.811
0.94251	1.00896	519.9254	518.8013	-1.02126	0.81124	0.97919	548.4625	535.8622
0.00139	1.63294	204.7766	331.6006	1.03736	0.82924	1.03736	189.9012	196.7763

0.09903	0.86664	1136.112	985.0662	-1.18083	0.19251	0.84686	1018.459	854.6919
0.7391	1.03875	542.387	568.2139	-1.23191	0.00032	0.81175	978.2576	794.3739
0.88695	0.96126	129.0493	122.6244	1.98564	0.00167	1.98564	112.8427	223.5051
0.15114	0.86818	923.9575	798.7727	-1.02723	0.77022	0.97349	894.0376	873.9465
0.00003	0.75057	812.0849	610.4571	1.09939	0.18718	1.09939	742.3069	817.1604
0.89084	1.01174	692.2576	697.6321	1.24923	0.00033	1.24923	657.7719	822.0173
0.13837	1.06727	2663.437	2843.121	-1.38313	4.21E-07	0.723	2941.27	2111.771
0.23528	0.89513	2047.524	1851.179	-2.22607	8.61E-09	0.44922	1349.698	603.204
0.88642	1.02507	305.1392	317.7423	-1.02706	0.84139	0.97366	322.1905	312.4972
0.81307	0.95507	288.5259	281.6857	-1.25174	0.43557	0.79889	191.4781	154.2022
0.57449	0.95352	3324.467	3159.32	-1.01083	0.89503	0.98929	3098.281	3062.247
0.124	1.10286	982.3668	1086.586	1.03079	0.65771	1.03079	2602.863	2706.142
0.13128	1.09289	1922.406	2103.358	1.50952	1.18E-12	1.50952	1709.959	2581.039
0.0629	0.88803	2520.231	2233.927	1.03803	0.48344	1.03803	2450.122	2546.266
0.40458	0.96317	4885.975	4709.617	1.07667	0.18247	1.07667	4007.501	4313.808
0.44458	1.04893	746.3745	783.3263	1.00674	0.91944	1.00674	2122.607	2138.486
0.03128	1.24142	1661.815	2054.066	2.18614	1.46E-28	2.18614	1748.398	3829.675
0.86798	0.98452	1034.308	1013.321	1.09293	0.2604	1.09293	1070.698	1173.732
0.1575	0.88309	7225.132	6398.173	5.85021	0	5.85021	7018.22	41214.56
0.3802	0.94818	1266.01	1200.345	-1.65036	1.69E-17	0.60593	1763.867	1070.41
0.03297	0.77741	623.9852	480.6661	1.20403	0.02013	1.20403	532.6129	642.2252
0.78972	0.94202	230.6651	225.1696	-1.43363	0.08721	0.69753	330.855	237.0306
0.48577	0.8723	615.0731	548.5446	-2.06015	0.0063	0.4854	445.8633	217.2472
0.65409	1.05101	433.6737	458.2159	-1.05785	0.59283	0.94531	398.4397	377.4403
0.03639	0.84643	1122.969	948.1935	1.0198	0.77103	1.0198	1075.558	1098.603
0.82119	0.95694	248.3882	241.2855	-1.74818	0.03628	0.57202	203.8315	115.4178
0.44806	1.04979	3414.109	3592.915	-1.13504	0.14196	0.88103	3537.364	3125.968
0.99115	0.99889	2643.649	2638.539	1.61524	5.76E-12	1.61524	2193.633	3549.423
0.51285	0.94804	1938.099	1835.602	1.21494	0.00065	1.21494	1782.993	2166.365
0.00288	0.60441	897.5624	529.7343	1.01775	0.8325	1.01775	574.7632	586.0347
0.70829	0.61885	36.22926	24.03248	1.91389	0.38856	1.91389	30.56333	58.49608
0.78395	1.01203	6018.327	6094.018	1.00838	0.89831	1.00838	6011.298	6075.426
0.10504	1.11895	7687.991	8701.439	5.8778	7.74E-36	5.8778	10126.7	61127.48
0.77781	0.94501	221.646	212.679	-1.06296	0.5777	0.94077	338.7931	318.516
0.00346	0.86854	5500.579	4779.35	1.0209	0.61851	1.0209	5261.466	5371.086
0.65277	0.93885	839.4725	782.6914	-1.13256	0.08397	0.88296	869.9238	766.7424
0.75153	0.94872	14181.4	13661.97	1.55595	0.00139	1.55595	14943.38	23335.29
0.43415	0.85167	857.9675	742.6766	-1.65964	2.75E-06	0.60254	641.3505	387.7526
0.88483	0.98148	328.8859	320.7839	-1.00959	0.9417	0.99051	324.3063	322.3129
0.83458	1.02133	442.506	449.8269	-1.03387	0.70868	0.96724	429.6274	415.4551
0.00006	0.7971	3626.516	2879.675	1.18834	0.0116	1.18834	3910.61	4684.135
0.05194	0.80717	26935.28	21696.14	1.23247	0.01666	1.23247	24554.4	30256.99
0.52275	1.10159	381.6371	416.3442	1.0623	0.66441	1.0623	335.5889	355.6075
0.45781	1.05588	1383.222	1451.168	1.07384	0.26033	1.07384	1471.604	1586.287
0.97566	1.0076	197.1166	204.1863	-1.58941	0.1625	0.62916	178.7784	115.6946
0.19246	0.84662	1696.248	1431.229	-1.08836	0.44373	0.91881	1467.912	1352.031
0.0174	1.22664	2685.047	3293.364	1.51427	0.00003	1.51427	2597.543	3954.203
0.08678	1.1508	567.9155	655.3013	1.42102	0.05619	1.42102	547.5192	770.9212
0.73709	1.0212	1693.083	1724.885	-1.1075	0.03126	0.90294	1720.336	1552.894
0.13448	1.14529	1922.553	2205.889	1.32805	1.19E-08	1.32805	1767.773	2347.438
0.00025	1.47973	715.8247	1066.132	-2.47984	1.39E-10	0.40325	612.8503	244.9985
0.79935	1.01088	4535.312	4582.961	-1.06531	0.15331	0.93869	4507.133	4230.487

0.84941	1.11795	59.23251	66.69164	-1.03067	0.95898	0.97024	63.87101	62.31255
0.15096	0.78684	568.4446	437.7289	1.09854	0.32372	1.09854	421.9988	462.7239
0.97633	1.00527	216.8181	216.6907	1.11912	0.40279	1.11912	225.6735	252.5187
0.54774	1.23978	102.2684	123.4371	3.27206	1.89E-11	3.27206	109.5331	358.404
0.00085	1.1886	4008.819	4750.773	-1.28529	4.43E-07	0.77804	5425.723	4214.472
0.16137	0.72659	294.6119	208.2675	1.31557	0.01388	1.31557	270.6815	356.2341
0.04497	1.16968	18944.04	22301.02	-1.12961	0.15833	0.88526	20724.56	18195.36
0.0035	1.24399	6757.711	8372.746	-1.83932	4.42E-09	0.54368	11168.53	5968.354
0.00031	0.7604	7264.919	5589.259	-1.08151	0.13735	0.92463	7514.657	6952.427
0.02528	0.859	2171.688	1869.305	1.14629	0.01842	1.14629	1753.021	2008.563
0.43094	0.91102	364.9307	331.122	-1.06501	0.7154	0.93896	333.7192	317.9569
0.26086	1.14706	453.7741	515.2798	-1.0555	0.4118	0.94742	786.3495	745.5303
0.99287	1.00102	1480.142	1481.221	-1.76171	5.30E-14	0.56763	1812.878	1025.804
0.54686	0.8827	253.6025	218.4488	1.30186	0.04087	1.30186	290.1654	376.2604
0.40247	1.05447	1265.577	1331.561	1.18336	0.00935	1.18336	1235.574	1464.62
0.95881	0.99649	2274.606	2268.48	1.95066	2.58E-08	1.95066	2044.615	3961.8
0.0349	0.87582	2711.903	2379.346	-1.35864	2.13E-09	0.73603	2622.312	1929.601
0.97333	1.00266	2867.69	2896.088	1.68833	2.02E-28	1.68833	2906.579	4906.796
0.71794	1.08081	125.5231	135.7053	1.11713	0.56438	1.11713	231.2009	260.2883
0.1728	1.08002	728.4954	786.8738	-1.17668	0.01302	0.84985	871.2609	741.1636
0.07403	1.10058	1189.364	1310.467	1.05382	0.2716	1.05382	1270.673	1339.134
0.03411	0.80222	886.256	705.2577	1.01925	0.85382	1.01925	713.8394	731.0238
0.00006	1.21857	9766.076	11901.36	-1.59589	8.61E-07	0.62661	13755.14	8563.987
0.63417	0.92998	1093.136	1011.612	-1.00871	0.92382	0.99137	922.7089	918.309
0.9212	0.90116	38.51245	34.09929	1	1	1	18.16817	29.80994
0.08517	1.15382	1533.19	1766.068	1.38296	9.81E-06	1.38296	1743.642	2423.521
0.56738	0.91998	273.1755	253.0344	1.08381	0.55328	1.08381	282.7943	307.5249
0.09255	1.09131	3658.05	3998.114	1.06971	0.28947	1.06971	4022.996	4304.341
0.17926	0.92993	1251.591	1163.214	1.08614	0.18184	1.08614	1172.542	1274.35
0.51573	1.06855	1248.575	1318.933	-1.05052	0.53029	0.95191	1322.003	1268.136
0.84445	1.05076	133.2701	139.893	1.2844	0.43411	1.2844	119.188	150.5895
0.85009	1.01701	639.6151	653.4313	-1.05308	0.53611	0.9496	573.1399	545.1614
0.44528	1.1134	319.6926	352.8429	-1.00685	0.94056	0.9932	553.4058	551.1539
0.5865	1.04756	950.9288	990.7451	-1.0365	0.57425	0.96479	1012.611	978.4977
0.00015	0.78888	7672.42	6060.486	1.21591	0.00002	1.21591	7081.417	8610.715
0.25175	0.95089	2357.941	2242.466	1.0867	0.0603	1.0867	2185.542	2374.913
0.97285	0.96999	55.88705	51.85551	1	1	1	23.61546	32.64091
0.5804	0.96457	5229.807	5036.139	-1.0955	0.02974	0.91283	3976.952	3629.462
0.75906	0.88201	75.08173	66.4905	-1.14597	0.62331	0.87263	160.3752	139.4691
0.11618	0.85841	789.3682	673.4757	1.1215	0.32996	1.1215	747.7403	844.6868
0.00002	0.55454	1738.957	946.7263	-1.19835	0.09965	0.83448	1162.534	974.5817
0.05285	0.82303	594.7954	486.7294	1.28185	0.00169	1.28185	464.6204	596.0919
0.42364	1.07698	946.9929	1019.235	1.41368	0.01819	1.41368	862.5437	1218.129
0.1997	0.84752	761.6044	638.9059	1.33279	0.00702	1.33279	686.8247	921.2693
1.43E-06	0.64058	5734.521	3662.87	-1.01422	0.87911	0.98598	4807.808	4740.108
0.97436	0.9595	22.02362	24.668	1.00518	0.99689	1.00518	28.05023	32.14191
0.25404	0.92631	4210.227	3894.576	1.25763	0.00002	1.25763	4019.184	5055.257
0.01522	0.51835	248.1122	124.8801	-1.35095	0.27007	0.74022	178.6341	132.4243
0.27977	1.05281	1291.156	1359.465	1.09635	0.09072	1.09635	1146.998	1257.041
0.35449	1.06576	7902.783	8384.171	-1.01303	0.78584	0.98714	8605.061	8498.385
0.03878	0.70828	1799.845	1254.44	1.17851	0.09154	1.17851	1345.984	1592.172
0.54959	1.0584	1501.605	1591.321	-1.0409	0.67647	0.96071	1274.953	1238.563

0.66499	0.9457	1838.174	1725.798	-1.81826	7.84E-06	0.54998	1867.413	1027.033
0.8419	1.03225	222.9907	228.829	1.04689	0.83591	1.04689	212.6543	221.1621
0.36128	0.91266	616.0716	558.9248	1.08397	0.42404	1.08397	651.5873	709.5175
0.16745	1.07256	2169.854	2327.106	1.31707	3.66E-09	1.31707	2223.327	2928.863
0.6526	1.02292	1097.96	1122.639	-1.05843	0.32206	0.94479	1195.181	1130.48
0.02659	0.75116	773.621	574.2462	1.0074	0.92637	1.0074	614.3882	619.856
0.11768	0.66441	204.0513	132.8967	1.15401	0.57901	1.15401	159.2206	184.7735
0.36787	1.0649	3128.596	3329.807	-1.03533	0.58793	0.96588	2964.238	2861.794
0.03066	0.79342	578.17	455.6574	-1.00858	0.92506	0.99149	450.3048	446.293
0.04694	0.71356	318.0996	223.6767	-1.2045	0.29667	0.83022	217.964	180.9576
0.39098	0.90607	1125.703	1017.482	1.37788	0.00013	1.37788	983.5632	1361.011
0.73234	1.02452	812.2596	834.7621	-1.00823	0.90999	0.99183	811.4767	803.592
0.52017	0.96847	1031.076	998.3419	-1.0825	0.32233	0.92379	1053.026	969.929
0.43735	1.0771	543.6998	588.6118	-1.22022	0.01216	0.81952	598.7252	491.1599
0.07508	1.10174	3837.644	4217.919	1.09547	0.02763	1.09547	4188.009	4588.412
0.10788	1.09237	766.3533	837.3829	1.0378	0.63627	1.0378	792.5255	821.0421
0.37193	1.06429	1793.927	1915.739	-1.51706	5.63E-13	0.65917	1682.735	1108.816
0.08572	1.13841	3552.187	4054.344	-1.38951	0.00151	0.71968	4372.503	3140.506
0.00128	0.78056	2599.972	2039.746	1.14784	0.10492	1.14784	2899.914	3314.749
0.3143	0.87236	719.155	620.0129	1.15283	0.17748	1.15283	638.8226	740.2815
0.04394	1.15285	1689.487	1950.413	1.31974	1.82E-08	1.31974	1576.135	2080.464
0.90332	0.92935	48.80528	45.05025	1.30389	0.76295	1.30389	44.54186	57.42935
0.89578	0.97667	235.5698	229.701	1.02905	0.87191	1.02905	191.1834	196.8015
0.00929	0.85583	797.8591	682.484	-1.0913	0.24356	0.91634	740.5266	677.6583
0.22401	0.87949	4553.586	3993.479	1.18668	0.02487	1.18668	3959.756	4721.897
0.28866	0.79012	255.5266	198.0987	-1.118	0.62251	0.89445	189.4751	169.0267
1	1	18.50135	21.79937	1	1	1	18.72904	32.13921
0.97403	0.9967	676.7926	679.1156	1.52257	2.54E-06	1.52257	743.0786	1129.331
0.51178	1.02826	1905.698	1959.494	-1.08009	0.28854	0.92585	1682.045	1550.117
0.2653	1.06688	706.5795	754.184	-1.04849	0.58869	0.95376	726.0149	690.4663
0.50351	1.07586	346.2068	371.2214	1.15495	0.11758	1.15495	421.6758	486.2202
0.16093	1.15816	356.1693	412.7058	1.34652	0.03318	1.34652	353.2707	471.8331
0.98976	1.01744	28.06475	29.26397	1.19913	0.87011	1.19913	34.07342	48.1115
0.38449	0.83809	166.6854	139.3059	-1.01601	0.94624	0.98424	148.113	145.4811
1.95E-10	0.60137	884.1508	530.5072	-1.16756	0.06952	0.85649	703.0878	600.585
0.55074	0.74665	113.3452	79.16028	2.32141	0.00023	2.32141	133.9669	314.971
0.00125	0.72669	1765.797	1278.488	-1.68599	2.96E-14	0.59312	1364.365	809.8855
0.014	0.80714	5594.5	4530.538	1.55461	6.17E-08	1.55461	4846.674	7551.264
0.77044	0.97614	961.5133	944.3197	-1.09845	0.09322	0.91037	867.5831	789.8041
0.67058	1.02922	1756.27	1801.752	-1.02697	0.58253	0.97374	1771.039	1725.737
0.11914	1.09113	1874.983	2040.677	1.00844	0.88244	1.00844	1986.293	2001.49
1	1	19.55461	23.02941	1	1	1	19.71956	34.1302
0.72716	1.0598	225.6109	239.1317	-1.01872	0.89347	0.98162	258.9416	253.8641
0.4257	0.9462	1870.077	1745.854	1.01504	0.75019	1.01504	2058.588	2090.083
0.42411	0.89708	4392.363	3982.974	1.24462	0.02283	1.24462	4316.996	5353.312
0.06359	0.81099	1204.86	969.4539	1.33418	0.00574	1.33418	998.163	1339.44
0.58954	1.02728	935.79	961.4344	-1.04224	0.53954	0.95948	796.5949	765.0908
0.29282	0.93355	10132.96	9476.626	1.13022	0.03326	1.13022	9564.188	10793.88
0.84883	1.00827	2356	2375.951	-1.02889	0.63123	0.97192	2292.736	2223.696
0.05009	1.18764	603.8302	719.8458	-1.21498	0.02342	0.82306	576.857	475.5335
0.93385	1.07487	35.93798	37.70266	1	1	1	23.30154	34.13634
0.04573	0.9005	1306.587	1176.609	1.02455	0.61626	1.02455	1125.942	1153.556

0.95035	1.01494	194.386	202.6881	-1.30705	0.16441	0.76508	246.4062	188.8499
0.78963	0.97991	556.1498	543.8635	1.22049	0.01346	1.22049	439.3851	535.9507
0.01261	0.89814	2226.104	1999.341	1.03917	0.39371	1.03917	1767.041	1836.3
0.79651	1.04872	264.3878	272.1468	-1.24026	0.10214	0.80628	353.8288	284.2195
0.22715	1.08172	691.8472	747.3281	-1.05577	0.46266	0.94717	761.0008	719.6962
0.50679	0.89774	227.0689	203.4984	2.83832	6.47E-18	2.83832	204.9004	579.9705
0.87719	0.93493	105.3351	93.93567	1.52162	0.21942	1.52162	97.48373	147.6622
0.70957	1.0866	324.0992	358.9874	-2.12687	0.05222	0.47017	187.4583	91.37379
0.64208	0.9632	7387.686	7094.06	1.3095	0.00413	1.3095	7170.488	9464.433
0.19494	0.85459	3901.374	3374.203	1.63603	3.01E-09	1.63603	3297.896	5417.438
3.77E-06	0.73036	19841.52	14464.49	-1.51761	4.46E-08	0.65893	19312	12704.91
0.7014	1.02537	1112.418	1142.761	1.0366	0.67528	1.0366	1084.536	1122.897
0.93776	1.00804	810.1884	812.826	1.20848	0.11061	1.20848	698.0709	849.15
0.07251	1.11599	991.2462	1103.957	-1.13523	0.06424	0.88088	949.8126	835.5416
0.7819	1.01598	1617.624	1639.823	-1.11511	0.01351	0.89677	1757.86	1576.434
0.14949	1.13878	471.3182	537.9081	1.10205	0.35325	1.10205	512.1094	563.0607
0.0151	1.10485	6517.445	7200.719	-1.31446	3.45E-06	0.76077	6481.455	4932.086
0.41723	1.04937	1128.204	1180.996	1.03596	0.50953	1.03596	1155.032	1196.505
0.00001	0.49626	5284.861	2556.187	-1.31863	0.0208	0.75836	3698.838	2810.785
0.43755	1.0377	1865.295	1938.004	-1.13685	0.01031	0.87962	1835.79	1614.676
0.42285	1.04561	1318.146	1375.642	-1.05114	0.35983	0.95135	1302.572	1239.739
0.47589	0.83982	169.3765	144.2177	1.9913	1.00E-06	1.9913	222.6223	442.3499
0.00084	0.84595	4088.056	3458.857	-1.10603	0.21102	0.90414	3487.514	3153.272
0.80756	0.96829	255.869	247.56	-1.16887	0.35364	0.85553	260.7268	221.983
1.33E-11	0.66204	3719.549	2466.232	1.4071	1.90E-11	1.4071	3406.886	4801.357
0.01614	0.83109	2282.065	1893.122	1.40593	4.89E-08	1.40593	1921.089	2704.166
0.46563	1.04777	1786.015	1862.026	-1.08399	0.17968	0.92252	2977.682	2735.793
0.80824	1.01564	1246.101	1268.848	1.22734	0.00539	1.22734	1317.05	1614.522
0.11181	1.08297	2683.423	2903.63	-1.05452	0.34063	0.9483	2938.711	2781.549
0.36392	1.06395	936.9419	1000.541	1.03447	0.62806	1.03447	975.4426	1007.307
0.93125	0.99327	1265.501	1265.12	-1.25273	0.00537	0.79826	1264.922	1007.324
0.23901	1.11529	400.4309	447.1972	1.60444	0.00357	1.60444	328.3326	522.8768
0.94137	0.9019	22.09854	23.38636	1.24954	0.89913	1.24954	17.82525	34.3835
0.19548	1.10218	1438.54	1589.411	1.21869	0.00204	1.21869	1323.104	1610.669
0.99896	0.99971	157.8059	159.1477	-1.25084	0.52747	0.79946	145.4932	115.813
0.42369	1.09511	2397.662	2655.027	1.65764	2.94E-14	1.65764	2275.337	3767.419
0.13673	1.10228	734.0238	807.9919	1.03359	0.64983	1.03359	793.354	818.9027
0.92997	1.01073	233.4273	235.933	1.13978	0.31003	1.13978	259.5514	295.522
0.56616	0.88353	416.1426	381.3658	-2.14868	0.00318	0.4654	500.707	233.0298
0.26136	0.83292	403.2636	332.0145	1.55888	7.33E-07	1.55888	361.0817	563.4015
0.91138	0.97875	346.0931	346.2851	-1.55863	0.03519	0.64159	286.9225	184.3366
0.47806	0.92101	519.5048	475.7882	1.2781	0.00195	1.2781	541.2636	692.6964
0.74632	0.96405	270.9943	261.541	1.24101	0.44784	1.24101	186.2145	219.7882
0.09701	0.72657	259.986	186.3615	1.13543	0.45886	1.13543	241.564	272.1796
1.12E-13	0.69177	9995.109	6919.402	-1.48648	5.15E-07	0.67273	8561.917	5735.544
0.47495	1.05269	1805.201	1890.858	1.15969	0.01167	1.15969	2003.602	2325.255
0.00394	0.73824	11030.58	8158.342	1.46069	1.42E-06	1.46069	8721.082	12784.34
0.4112	1.07684	708.4817	767.3137	-1.10166	0.16567	0.90772	729.0657	661.1657
0.06638	1.12799	15859.54	17910.84	-1.3174	0.00018	0.75907	17558.4	13297.85
0.05115	1.22419	1681.036	2042.987	-3.25695	6.80E-17	0.30704	3253.72	978.6919
0.7196	1.03331	7398.658	7704.75	1.09888	0.17169	1.09888	6818.821	7491.352
0.6378	1.10539	169.4747	189.5688	1.06368	0.7205	1.06368	262.0999	277.5482

0.00057	0.8121	2159.682	1754.456	1.1148	0.02854	1.1148	1793.261	1999.59
0.84655	1.01732	2965.56	3019.988	1.33285	0.00015	1.33285	2645.771	3532.562
0.81052	0.95838	164.3712	157.5725	1.01853	0.94367	1.01853	124.0501	126.5685
0.50652	1.05685	432.2145	457.4786	1.04181	0.74613	1.04181	391.427	405.416
1	1	17.89616	23.18514	1	1	1	19.54354	30.97797
0.87099	1.01755	1100.471	1124.593	1.00551	0.97297	1.00551	998.9544	996.6461
0.89395	1.00771	2858.122	2852.062	1.01117	0.86594	1.01117	3096.577	3136.972
0.30362	1.14599	337.7205	386.2298	1.3594	0.00509	1.3594	383.4531	519.1467
0.84448	1.2843	25.74957	33.68066	-1.14062	0.91047	0.87672	35.37761	31.33059
0.22868	0.74011	171.6896	125.4664	1.24052	0.49453	1.24052	129.8535	162.169
0.78098	1.02925	1286.631	1327.509	-1.17079	0.00331	0.85413	1233.236	1053.524
0.17367	1.06804	6956.855	7446.42	-1.15326	0.02004	0.86711	6951.216	6035.144
0.62803	1.03002	1530.98	1571.011	1.02723	0.61321	1.02723	1559.409	1604.679
0.71649	1.02387	562.3285	575.4775	1.13646	0.29746	1.13646	582.9898	658.4723
0.22249	1.09501	7306.064	7982.268	-2.51475	0	0.39765	7116.681	2826.017
0.89743	0.96902	511.109	512.0137	-4.75966	2.95E-12	0.2101	390.5426	81.8537
0.12067	1.06803	2825.754	3017.133	-1.04877	0.33087	0.9535	2780.617	2651.672
0.66323	1.1163	140.3039	158.8975	-1.08267	0.78964	0.92365	134.9502	125.7994
0.89651	1.0208	237.9804	241.148	-1.06935	0.70409	0.93515	214.8323	200.581
0.75494	1.03613	344.8821	356.0564	-1.59287	0.03649	0.6278	450.8339	274.2697
0.13996	1.09737	1364.004	1494.025	-1.03784	0.5872	0.96354	1514.302	1458.755
0.91438	1.00691	1089.843	1094.469	-1.05223	0.37753	0.95036	1091.056	1037.616
0.9849	0.99845	678.0461	674.5513	-1.04375	0.65515	0.95808	651.7343	626.7513
0.01083	0.75145	986.7048	737.6152	-1.28123	0.0002	0.7805	1294.492	1010.689
0.28775	1.07304	2443.078	2619.314	-1.47352	2.66E-17	0.67864	2326.919	1579.198
0.00177	0.78315	1402.972	1099.697	-1.43677	7.74E-08	0.69601	1154.703	802.5062
0.06313	0.72155	426.0585	299.6151	1.2558	0.03068	1.2558	332.8795	418.7367
0.46757	0.96339	904.5664	871.3277	-1.12421	0.13012	0.88951	761.3657	678.402
0.30549	0.8647	262.7411	226.3676	1.21409	0.24192	1.21409	184.6639	223.8636
0.00696	0.59181	929.5126	533.0653	1.18165	0.25008	1.18165	732.4058	875.4456
0.96876	0.99613	917.2103	919.7561	-1.02442	0.77691	0.97616	980.3752	953.73
0.82641	0.97451	698.7284	687.2772	-1.13959	0.11064	0.87751	531.755	466.2402
0.1605	1.10528	2498.766	2776.575	-1.09699	0.27165	0.91158	2623.392	2382.678
0.00065	0.78845	8288.892	6525.725	-1.17595	0.00059	0.85038	7065.75	6009.771
0.30518	1.12416	270.3835	303.614	1.00068	0.99705	1.00068	272.3076	272.1625
0.14205	1.09885	1212.581	1337.276	-1.03528	0.53679	0.96592	1235.382	1192.897
0.07042	0.87099	4053.475	3545.644	1.00859	0.89907	1.00859	4513.971	4548.422
0.2886	0.90517	457.0176	414.1885	1.31241	0.02022	1.31241	568.6708	741.9954
0.88552	0.94238	85.8513	81.97645	2.38579	0.00198	2.38579	99.47749	233.6543
1	1	17.87997	23.10315	1	1	1	18.33997	31.43213
0.99344	1.00067	6588.688	6584.162	1.34746	0.0002	1.34746	6025.588	8108.188
0.57494	0.76214	136.5385	90.87421	1.29604	0.41896	1.29604	124.5058	160.7165
0.61239	0.96099	426.14	409.4121	-1.08794	0.49985	0.91917	408.3834	377.3219
0.22255	0.91272	1441.79	1316.604	1.20894	0.00092	1.20894	1280.837	1548.192
0.68093	1.06098	282.5395	302.1022	1.10096	0.37554	1.10096	339.4812	373.9019
0.12532	1.1366	491.271	559.8676	1.10816	0.26872	1.10816	704.5897	778.5503
0.0015	1.15058	1805.913	2077.74	1.34937	0.00012	1.34937	1890.459	2551.514
0.22499	0.94748	2554.042	2421.07	1.09732	0.06257	1.09732	2680.213	2939.962
0.00003	0.71431	1080.942	774.312	-1.39856	0.00007	0.71502	871.1314	621.0109
0.24109	0.90777	707.7858	644.9495	1.01607	0.8877	1.01607	623.5519	630.6872
0.23476	0.83763	3123.601	2622.619	-1.37691	0.00069	0.72626	2385.844	1731.145
0.86189	1.01235	1466.531	1488.396	-1.03684	0.58987	0.96447	1571.961	1510.601

0.95941	1.01413	108.8091	109.7752	1.3614	0.18411	1.3614	143.0966	196.1447
0.19039	1.08883	8396.272	9129.43	-1.28812	0.00017	0.77632	7329.274	5633.514
0.22004	0.86765	468.8066	403.5035	1.07338	0.48344	1.07338	411.4805	442.678
0.49824	1.07588	459.4739	491.1565	-1.05573	0.6062	0.94721	438.8644	416.942
0.15373	0.88146	815.2312	715.4717	-6.31379	7.60E-43	0.15838	740.4247	117.5855
0.24886	1.05327	5433.955	5732.545	-1.05374	0.37613	0.949	5492.489	5202.111
0.95646	1.00609	926.3091	933.3979	-1.10307	0.05875	0.90656	1486.489	1348.615
0.20207	0.86331	3022.517	2598.346	-1.23761	0.04583	0.80801	1400.704	1132.467
0.18776	1.12124	1943.542	2199.533	1.39384	4.30E-13	1.39384	2560.201	3568.93
0.05774	0.77561	707.9297	542.2069	-3.79517	9.58E-25	0.26349	565.6085	148.6948
0.62891	1.07464	227.3991	245.6249	1.07572	0.65487	1.07572	256.7722	276.9625
0.99294	0.99876	214.8595	214.7877	-1.1146	0.52115	0.89718	218.0558	196.0643
0.96573	1.00857	180.2041	182.1267	-1.22402	0.37297	0.81698	182.2847	149.0531
0.03245	0.85327	4029.247	3429.459	1.35898	8.49E-07	1.35898	3015.688	4093.609
0.22831	1.06042	1537.717	1632.527	-1.05595	0.3486	0.94702	1588.819	1500.743
0.02463	0.77208	515.9233	395.194	1.27526	0.00468	1.27526	426.7825	544.8644
0.75216	0.98703	2783.166	2747.061	1.088	0.07837	1.088	2518.981	2740.833
0.72334	0.95631	2262.888	2163.924	1.12899	0.27936	1.12899	1919.612	2171.433
0.01056	0.67989	6595.977	4465.606	-1.29731	0.03339	0.77083	5100.672	3935.884
0.65682	1.03569	6081.098	6332.299	-1.07785	0.25839	0.92777	6363.329	5896.237
0.5269	0.88771	177.7968	157.3325	1.01181	0.92552	1.01181	259.5179	262.6212
0.66123	1.03442	728.4041	755.6327	-1.4041	0.00904	0.7122	579.296	415.5081
0.00002	0.62225	524.4795	324.3273	-1.31382	0.02287	0.76114	342.7444	261.0723
0.55824	0.9109	275.0755	253.1083	1.02121	0.90013	1.02121	252.8593	256.8213
0.82129	0.97106	1175.589	1124.727	-1.28894	0.03402	0.77583	1047.729	818.1818
0.83477	1.05093	143.1763	149.043	-1.08946	0.79206	0.91789	109.6646	100.8088
0.29495	1.07995	689.7336	746.6394	-1.13782	0.04301	0.87887	804.6049	706.8705
0.96915	1.00469	416.2113	419.6749	-1.18137	0.3289	0.84647	371.8171	315.3471
0.74651	1.0237	432.5802	442.8692	1.01309	0.91701	1.01309	411.2064	413.8821
0.81837	1.05352	114.9627	121.1648	-1.13785	0.68637	0.87885	117.1268	103.1916
0.85513	0.95522	194.5494	180.7701	1.43577	0.10514	1.43577	167.2494	238.2188
0.00811	0.89466	9000.697	8052.892	1.48118	1.44E-17	1.48118	7749.697	11482.52
0.35941	0.83047	8242.854	6408.286	-4.85381	0	0.20602	8926.512	1840.203
0.48466	1.04642	769.6603	806.9734	-1.07175	0.31194	0.93305	844.7486	787.2339
0.07191	0.86131	1548.43	1330.844	1.13919	0.09717	1.13919	1371.874	1569.176
0.40242	0.91932	2860.826	2629.464	1.26169	0.06641	1.26169	2313.176	2925.946
0.84374	0.84443	35.69652	30.46104	-1.29829	0.72203	0.77024	67.3646	51.18649
0.06843	1.20716	407.9574	490.4024	1.08117	0.35009	1.08117	450.9794	487.6669
0.72897	0.96488	1078.021	1035.117	2.07065	2.12E-24	2.07065	955.5759	1984.411
0.17729	0.8718	1273.449	1105.381	-1.10475	0.3274	0.90518	1156.903	1052.828
1	1	19.02837	21.99131	1	1	1	17.54339	30.4697
0.00004	0.61746	554.9957	339.9113	-1.28893	0.04967	0.77584	380.7033	294.7279
0.67772	0.91327	133.5683	121.9199	-1.07997	0.76229	0.92595	136.0011	125.9431
0.95705	0.99221	455.4541	445.9326	1.05458	0.68889	1.05458	390.9428	414.7685
0.80477	1.03626	210.705	217.8715	-1.2829	0.28743	0.77948	192.7523	149.5685
0.80241	0.93589	106.0567	99.22919	1.09556	0.85875	1.09556	83.73265	94.54324
0.59337	0.95997	1740.138	1682.818	-1.14596	0.00649	0.87263	1552.589	1354.271
0.10586	0.86008	1266.136	1085.159	1.09267	0.08616	1.09267	1207.555	1319.493
0.17163	1.21441	481.8697	577.3796	1.29238	0.02423	1.29238	471.4948	612.5967
0.2393	1.05278	2175.43	2290.025	1.20275	0.00033	1.20275	2230.078	2681.35
0.00099	0.72887	627.6473	455.2134	-1.11299	0.26037	0.89848	509.3024	456.534
0.76018	1.06446	152.0516	161.2831	1.09321	0.67212	1.09321	149.6232	163.6035

0.74326	1.04601	230.3012	241.4962	1.06758	0.6721	1.06758	238.5309	253.8568
0.37799	1.12546	545.7985	621.3267	-1.97735	3.27E-06	0.50573	422.4737	214.3865
0.00362	0.84753	1394.239	1181.252	-1.33934	0.0019	0.74664	1183.019	884.2138
0.91911	0.98506	250.8308	248.6094	-1.13068	0.49951	0.88442	218.3299	193.8473
0.08436	1.18699	341.4603	404.3262	1.07026	0.51549	1.07026	391.0978	419.5856
0.04388	0.66413	367.7499	237.0212	1.30519	0.18289	1.30519	305.3013	404.3099
0.15403	0.82545	708.0929	577.2726	1.16976	0.20628	1.16976	554.8766	653.9172
0.30815	1.14754	406.8813	461.1517	1.13445	0.25677	1.13445	331.3265	375.2817
0.13452	0.9122	1858.718	1698.859	1.0038	0.9599	1.0038	1732.488	1736.198
1.45E-08	0.72591	2894.665	2098.411	-1.29282	2.03E-07	0.7735	2726.941	2109.866
0.13325	1.16964	558.6106	649.2841	1.81311	1.23E-08	1.81311	570.1142	1030.595
0.53967	1.04288	666.8538	696.7607	-1.04605	0.71084	0.95598	740.3837	702.8984
0.00927	1.13108	1116.715	1262.82	1.01437	0.81253	1.01437	1282.173	1300.123
0.00025	1.20218	6021.875	7238.91	-1.06109	0.24175	0.94243	7031.538	6609.09
0.79534	0.97582	618.8833	607.1288	-1.03166	0.67941	0.96931	661.8591	642.5026
0.7702	1.03355	364.6859	377.4458	1.23016	0.00157	1.23016	622.4464	765.408
0.02626	0.83626	2352.689	1969.079	1.34525	0.00081	1.34525	2049.617	2760.512
0.72163	0.98324	1131.985	1113.169	-1.1161	0.1005	0.89598	1139.62	1018.753
0.19054	1.09073	1369.792	1496.447	1.89138	9.76E-18	1.89138	1463.753	2769.833
0.00003	0.63117	21569.11	13724.23	-1.06854	0.42141	0.93586	20558.64	19304.4
0.93983	0.97792	135.758	130.3953	-1.10899	0.36201	0.90172	336.9313	303.8604
0.01888	0.82142	1236.711	1010.6	1.07253	0.27851	1.07253	1046.653	1120.287
6.56E-18	0.68824	4032.142	2775.047	1.02533	0.64159	1.02533	2878.423	2954.459
0.69254	0.93905	1201.216	1125.436	-1.10995	0.07411	0.90094	975.6803	879.0227
0.8948	1.01214	3267.416	3332.96	-1.0804	0.11568	0.92558	3374.724	3124.422
0.69342	1.31907	39.39484	51.0815	1.43587	0.24035	1.43587	97.01038	139.6391
0.78171	0.93951	651.2606	626.4915	-7.65891	1.46E-20	0.13057	933.7294	119.676
0.96985	1.0088	321.0474	331.7355	-2.68985	1.00E-07	0.37177	295.4254	110.0574
0.62697	1.08128	199.0048	214.4897	1.08838	0.3278	1.08838	474.3966	515.5367
0.06569	0.8732	2641.177	2295.508	1.07144	0.32022	1.07144	2439.131	2611.907
0.98599	0.99913	1215.656	1215.051	-1.15515	0.04638	0.86569	1183.39	1023.679
0.31259	1.06372	3697.902	3926.131	1.18151	0.00019	1.18151	3238.269	3826.408
0.00315	1.21708	9697.826	11808.14	1.04311	0.30129	1.04311	11199.66	11682.43
0.81342	1.04453	170.3687	177.4524	-1.10574	0.62848	0.90437	233.1621	208.544
3.74E-09	0.7176	6611.183	4746.525	-1.02599	0.60607	0.97467	6193.712	6029.42
0.9971	1.00039	533.3702	530.4764	1.06785	0.39141	1.06785	514.6892	549.9419
0.45392	0.96226	1129.052	1086.867	1.22658	0.00096	1.22658	1034.003	1267.762
0.96088	1.00228	1690.728	1693.548	-1.0293	0.58203	0.97153	1797.281	1744.28
0.21871	1.07356	1080.244	1161.854	1.02384	0.66629	1.02384	1281.437	1311.937
0.10416	0.82854	4296.729	3560.031	1.10851	0.26477	1.10851	3593.753	3998.891
0.83474	0.87308	51.37225	44.21062	1.07917	0.93164	1.07917	42.80766	48.70177
0.00003	0.7973	7498.669	5986.589	-1.09439	0.19805	0.91375	7209.508	6577.442
0.06851	0.87687	16245.76	14321.85	-1.33136	7.24E-12	0.75111	16366.89	12293.35
0.64607	0.89605	168.3649	152.8058	-1.16305	0.6493	0.85981	129.6214	110.1595
0.29639	1.10111	1219.499	1353.099	-1.24094	0.00308	0.80584	1210.424	974.6209
0.0305	0.716	18342.68	12865.13	-1.14377	0.35678	0.8743	15494.91	13378.87
0.02068	1.15222	5934.927	6873.875	-1.01593	0.83759	0.98432	6320.754	6254.462
0.9373	0.99142	485.5386	477.8916	1.27653	0.01872	1.27653	412.3842	524.5869
0.65474	1.0349	636.5931	657.0005	1.03091	0.63307	1.03091	651.1299	671.4558
0.44877	0.89684	426.2397	377.3649	1.21998	0.09509	1.21998	368.0924	450.8405
0.56365	0.94285	481.0078	455.908	-1.47741	0.00065	0.67686	389.8426	264.203
0.04982	0.87843	923.5096	812.2045	1.36125	0.00085	1.36125	795.4377	1080.393

0.00104	1.22883	5068.834	6241.219	-1.20355	0.0005	0.83087	5797.548	4807.458
0.94458	1.01802	111.3752	113.109	1.01672	0.96897	1.01672	99.75481	99.29996
0.8701	0.96584	238.6691	233.9483	1.07552	0.68787	1.07552	209.8645	224.6042
0.18483	1.13869	1051.095	1198.355	1.69873	2.45E-15	1.69873	963.9878	1635.629
0.39743	1.08644	821.9799	891.3012	1.79256	7.37E-12	1.79256	876.8447	1573.223
0.24047	1.11781	463.282	515.7362	-1.07249	0.47633	0.93241	434.3043	404.2429
0.00523	0.67669	2530.455	1692.354	1.31935	0.00342	1.31935	1875.68	2485.6
0.74935	1.0257	490.6268	502.806	1.08874	0.36347	1.08874	518.5148	566.1732
0.47875	0.94857	686.596	652.1888	1.32569	0.00161	1.32569	575.0663	760.2518
0.92936	0.99379	4596.929	4571.477	-1.00072	0.99228	0.99928	4387.765	4401.776
0.00476	0.6731	328.3434	219.7581	-1.24286	0.44412	0.80459	339.0531	272.8001
0.08671	0.87531	534.291	468.2628	1.08259	0.34767	1.08259	457.8124	496.1664
0.61177	1.06255	525.3257	563.6134	-2.26675	3.34E-08	0.44116	407.3085	180.2492
0.85461	0.97368	410.8167	395.1269	1.18249	0.13983	1.18249	410.9522	488.3464
0.33102	0.9426	2009.433	1890.606	1.05466	0.25366	1.05466	1836.874	1937.673
0.49893	1.33645	66.53905	88.64317	-1.02259	0.9641	0.97791	87.48682	84.80887
0.86749	0.98672	1390.833	1376.401	-1.08407	0.31502	0.92245	1599.24	1469.97
0.05782	0.67802	217.1808	145.8424	1.14513	0.57103	1.14513	157.1523	179.6972
0.31705	0.88243	272.5098	239.9135	-1.33153	0.18863	0.75101	265.8465	198.1409
0.92132	0.98571	219.3832	216.3187	-1.14612	0.46203	0.87251	230.9718	202.6869
0.00367	0.7687	1073.952	823.9784	1.19055	0.09968	1.19055	963.3383	1151.907
0.39428	0.94333	647.1412	611.0183	1.03367	0.71471	1.03367	636.7887	656.1777
0.01045	0.75188	776.7461	579.2105	1.11538	0.12906	1.11538	582.6332	649.3756
0.97689	1.00849	136.4377	140.7	-1.1151	0.8107	0.89678	97.16534	85.3828
0.08074	1.16042	3101.99	3573.303	-2.49957	1.96E-09	0.40007	3735.08	1457.525
0.6417	1.0666	299.9727	318.0829	1.0934	0.63917	1.0934	279.7003	306.5089
0.02156	0.89793	1348.585	1211.036	1.00026	0.99694	1.00026	1291.8	1294.151
0.92044	0.99022	2605.504	2584.977	1.27994	0.00429	1.27994	2166.063	2773.793
0.37017	0.82199	284.1267	242.7402	-1.11236	0.65596	0.89899	275.196	245.2133
0.7713	0.98567	1438.909	1419.665	-1.00869	0.89736	0.99138	1476.9	1459.891
0.0254	1.19655	1653.905	1985.768	1.20597	0.03992	1.20597	2005.083	2416.867
0.35716	1.05078	1376.808	1447.248	-1.46317	3.51E-11	0.68345	1425.489	975.205
0.66975	1.03207	919.6403	953.1373	-1.07577	0.34031	0.92957	913.8873	847.7965
0.51991	0.93978	1190.19	1116.983	1.30367	0.00001	1.30367	1095.777	1429.947
0.00018	0.64411	2317.373	1472.575	1.32611	0.0036	1.32611	1669.174	2227.826
0.21418	1.08453	2772.822	3011.387	1.04846	0.38948	1.04846	2582.931	2711.659
0.23755	0.93091	1481.934	1376.252	-1.07587	0.20065	0.92948	1400.485	1299.668
0.29173	1.08074	603.3794	650.9622	-1.00733	0.93325	0.99272	599.3667	593.9059
0.98732	0.98097	21.64353	22.74899	2.80352	0.40236	2.80352	18.24195	52.6796
0.58348	1.22449	77.85883	95.64499	1.17301	0.74436	1.17301	74.00217	86.82663
0.73319	1.03322	577.2849	593.3016	1.0094	0.89883	1.0094	564.6674	570.0652
0.16745	0.92791	943.3857	875.6119	1.19194	0.02745	1.19194	1141.248	1356.801
3.72E-09	1.28849	2130.269	2744.872	1.06689	0.37301	1.06689	1816.13	1935.335
0.49928	1.05998	3643.848	3881.388	1.27982	8.62E-06	1.27982	3317.297	4245.234
0.90583	0.95739	97.74916	92.08707	1.27521	0.40488	1.27521	106.8464	135.7849
0.81167	1.01969	696.2188	712.7961	1.05787	0.62099	1.05787	759.5486	799.0938
0.65879	0.95179	915.0691	872.5996	1.06865	0.62882	1.06865	882.2148	938.4278
0.55179	1.14137	138.847	159.32	1.07946	0.79909	1.07946	141.7444	152.4744
0.91649	1.00867	726.5455	735.9337	-1.25086	0.03881	0.79945	742.9122	590.601
0.89261	1.01629	308.415	312.6295	-1.03579	0.82398	0.96544	258.8151	250.8726
0.11174	1.17171	727.6287	848.7988	1.22513	0.02606	1.22513	660.2458	806.4721
0.00947	0.85518	1743.261	1488.946	1.53178	4.25E-11	1.53178	1326.636	2029.806

0.88036	0.98426	391.819	386.512	-1.1356	0.50871	0.88059	306.5701	272.2607
0.05312	0.6607	7722.403	4963.327	-1.134	0.46571	0.88184	6641.657	5804.272
0.05541	0.65402	404.7843	255.5921	1.66699	0.00141	1.66699	282.2604	475.1022
0.97108	0.99708	5988.167	6007.621	1.54103	1.51E-13	1.54103	5804.82	8939.541
0.93179	0.99319	1147.773	1143.956	-1.121	0.04801	0.89206	1255.237	1118.333
0.57744	1.06346	6794.826	7268.32	1.21449	0.05688	1.21449	6620.44	8075.44
0.1617	0.77622	2074.938	1642.367	-1.28204	0.00194	0.78	1121.529	875.6215
1.34E-12	0.70419	1898.604	1336.896	1.98701	3.26E-33	1.98701	1465.398	2910.682
0.02508	0.66772	197.9818	131.9727	-1.65089	0.17511	0.60573	162.6007	97.36246
0.53689	1.04056	623.0582	648.0272	-1.03284	0.70616	0.9682	705.4622	681.3138
0.10743	0.90403	2909.143	2637.278	1.18814	0.00165	1.18814	2293.397	2722.632
0.01031	0.68058	791.308	530.0185	-1.16415	0.14463	0.859	607.0579	523.3373
0.4943	1.07057	556.058	592.1093	1.38597	2.97E-06	1.38597	626.4147	868.9033
0.92222	0.99493	1783.077	1773.991	-1.63564	4.80E-09	0.61138	1726.652	1057.647
0.30602	0.95325	2002.268	1908.025	1.03945	0.37952	1.03945	1913.49	1988.849
0.66213	0.95876	502.811	479.8438	1.41413	2.90E-06	1.41413	465.4227	658.0191
0.44546	0.96636	6254.722	6040.649	1.77686	4.51E-10	1.77686	5449.896	9725.238
0.00142	0.68233	12857.92	8728.17	1.06084	0.58452	1.06084	9707.682	10342.23
0.82981	0.96906	225.7173	218.311	1.07212	0.76797	1.07212	173.4422	184.1277
0.0012	0.78783	1790.405	1409.386	1.0441	0.68398	1.0441	1343.202	1413.706
0.82787	0.98357	4144.412	4115.203	-1.12245	0.19716	0.89091	3045.44	2690.497
2.33E-07	0.61909	3270.069	2024.689	1.40945	1.40E-15	1.40945	2342.69	3301.65
0.00262	0.59792	298.135	179.1049	-2.27028	0.03434	0.44047	173.3254	76.3614
0.94767	0.99361	904.5079	907.8214	1.04857	0.61852	1.04857	840.8319	878.7531
0.45821	0.96929	3497.202	3388.934	-1.13852	0.01441	0.87833	3580.828	3136.734
0.02037	1.12722	2502.751	2822.761	-1.13277	0.12763	0.88279	2620.35	2305.658
0.79791	1.02498	625.0078	637.0409	1.31686	0.00407	1.31686	633.3862	837.9035
0.0172	0.87273	1519.613	1326.387	1.35011	0.00139	1.35011	1446.626	1958.269
0.96096	1.01187	174.8918	178.5799	1.15308	0.5274	1.15308	167.2784	191.6158
0.64846	0.89598	135.7719	121.4742	-1.08278	0.81496	0.92355	138.1848	130.4549
0.64945	0.97725	1467.644	1433.423	-1.05318	0.43484	0.94951	1187.021	1124.678
0.95966	1.00546	1883.931	1897.248	-1.32948	6.02E-10	0.75217	2081.05	1565.623
0.35109	0.87367	1232.986	1075.337	1.25143	0.00568	1.25143	1033.403	1296.669
0.14907	0.8571	3911.469	3356.044	1.13621	0.09644	1.13621	3347.908	3809.186
0.17747	0.82639	451.47	367.5152	3.09413	0	3.09413	440.173	1362.496
0.99538	0.99964	2962.114	2948.246	-1.04101	0.72991	0.9606	3291.375	3161.703
0.27136	0.95216	2152.06	2049.912	-1.11486	0.03213	0.89698	2147.183	1923.49
0.67519	1.02359	1164.233	1193.685	-1.06185	0.44921	0.94176	1224.277	1156.251
0.23495	0.93388	1198.734	1118.865	1.41533	1.15E-08	1.41533	1072.243	1518.039
1.90E-07	0.57101	3455.101	1967.707	1.79918	1.33E-31	1.79918	2988.718	5374.124
0.30687	1.05169	1172.677	1234.021	1.05179	0.39683	1.05179	1177.782	1237.143
0.39141	1.11733	259.9094	290.0186	1.10539	0.36716	1.10539	330.1667	365.4872
0.67704	0.96883	627.5988	606.5856	-1.0509	0.62708	0.95157	479.2631	454.5654
0.66313	0.90913	138.8279	125.8963	1.3996	0.32324	1.3996	133.7493	181.7292
0.04547	0.82057	14840.8	12134.88	1.14493	0.15207	1.14493	16179.17	18347.68
0.00002	0.78224	927.0662	724.5622	1.09096	0.21598	1.09096	920.941	1002.616
0.29922	0.90745	1304.401	1187.968	-1.10418	0.11902	0.90565	1217.544	1101.431
0.66624	1.0239	6092.767	6222.907	1.02169	0.61648	1.02169	6472.142	6609.878
0.7815	0.9616	321.8989	306.6392	1.23274	0.15437	1.23274	272.7335	338.2917
0.70553	1.01685	8666.544	8811.271	1.01758	0.70021	1.01758	7910.919	8043.065
0.92561	1.00688	713.8915	720.673	-1.0273	0.71528	0.97343	649.4341	632.9707
0.76083	0.96027	390.8371	371.8315	1.16685	0.23596	1.16685	315.8464	370.3204

0.9419	1.00685	327.2874	329.4083	-1.03024	0.83659	0.97065	309.1631	299.3632
0.84018	0.97382	358.2031	345.7309	1.03498	0.79003	1.03498	294.947	305.734
1	1	19.40996	21.33359	1.14854	0.93691	1.14854	17.80851	32.79723
0.42241	0.94099	2703.924	2559.837	1.17678	0.00208	1.17678	3378.664	3975.449
0.08397	0.92478	2569.556	2376.328	-1.49024	0.00004	0.67103	2168.241	1451.372
0.01056	1.12631	9707.248	10921.58	1.02684	0.6435	1.02684	10381.06	10649.19
0.22437	0.88032	1097.995	961.4636	1.20191	0.02519	1.20191	897.871	1082.7
0.32577	1.05374	5910.075	6218.232	-1.03181	0.51445	0.96917	6097.646	5915.842
0.51472	0.92494	415.2733	387.1783	-1.03458	0.81576	0.96658	359.3483	345.5178
0.01529	0.79488	8906.432	7080.431	1.28707	0.01526	1.28707	8092.628	10424.8
0.01519	0.74352	2887.593	2124.44	1.06771	0.46814	1.06771	2272.579	2435.776
0.23745	0.8437	722.9087	616.3131	-1.03442	0.73771	0.96672	570.9564	549.5977
0.00621	0.73318	1728.54	1265.072	1.01483	0.83667	1.01483	1361.513	1384.579
0.55756	0.89273	3502.184	3054.014	-3.09435	1.82E-44	0.32317	3759.105	1215.74
0.09198	0.749	1397.856	1026.028	1.11811	0.41602	1.11811	1065.557	1206.206
0.05698	1.15882	458.9407	532.0182	2.08175	0.00002	2.08175	409.6777	848.2676
0.28131	0.95582	4928.979	4711.947	-1.22443	0.00041	0.81671	4697.719	3843.939
0.72741	0.90556	162.5442	143.5172	1.33088	0.37207	1.33088	134.3508	182.7701
0.04734	1.09674	1666.157	1828.014	1.14395	0.02732	1.14395	1770.353	2023.789
0.12235	0.92841	1391.095	1291.24	-1.01461	0.84837	0.9856	1342.367	1319.785
0.12685	0.89872	1390.281	1247.155	1.1464	0.02366	1.1464	1284.635	1474.125
0.04237	1.15825	4680.932	5423.42	-1.57843	2.64E-11	0.63354	4368.773	2775.16
0.27116	0.76771	178.0673	135.5009	-1.111	0.67111	0.90009	155.9934	140.4196
0.77865	1.02406	1744.399	1806.106	-1.0417	0.56269	0.95997	3891.838	3733.86
0.89054	1.01322	799.2539	805.9882	-1.01635	0.81091	0.98391	713.0532	700.8583
0.13501	1.0681	1987.045	2121.533	1.04474	0.51962	1.04474	1880.553	1961.941
0.83627	1.02047	343.0277	350.0623	-1.05204	0.6764	0.95053	358.8737	340.4597
0.70444	0.97853	2504.541	2437.966	-1.10843	0.10216	0.90218	3275.064	2964.634
0.67221	1.03059	8896.635	9183.515	1.11694	0.06747	1.11694	8958.016	10016.28
0.80233	0.96841	758.9882	728.9742	1.67227	2.20E-16	1.67227	629.0204	1052.5
0.15481	0.88828	4953.893	4411.333	-1.03948	0.56373	0.96202	4490.829	4324.773
0.01015	0.78949	507.0262	401.3644	-1.29929	0.00822	0.76965	478.1239	368.6695
6.57E-07	1.3312	9174.222	12222.46	-1.09313	0.20023	0.9148	11400.9	10356.62
0.6556	0.97185	8108.46	7891.901	-1.1777	0.0088	0.84911	7634.893	6474.466
0.40395	1.22597	115.9359	141.4983	-1.16896	0.61315	0.85546	138.2799	118.1638
0.86481	1.00968	5694.767	5777.612	1.00878	0.88893	1.00878	5949.869	5992.043
0.50213	0.96712	3882.421	3748.586	1.00215	0.96227	1.00215	4022.479	4026.307
0.37238	0.8746	860.6877	744.9475	1.13547	0.25277	1.13547	711.5273	812.5877
0.00435	1.13824	3672.214	4182.157	1.25788	2.07E-06	1.25788	4046.751	5087.404
0.55256	1.0396	938.9387	974.002	-1.14981	0.03768	0.86971	964.6625	837.5609
0.57511	1.03703	2151.422	2216.017	1.09043	0.14337	1.09043	1885.865	2060.708
0.26225	0.89405	432.0643	387.5479	-1.0006	0.99613	0.9994	380.2488	378.1135
0.77317	1.08459	100.8193	109.5923	1.2618	0.57149	1.2618	97.19876	126.1522
0.68808	0.88594	304.9963	257.4035	2.26847	0.00001	2.26847	319.0469	735.6924
0.15179	1.09942	1179.673	1290.598	1.10033	0.18597	1.10033	1297.357	1435.438
0.49413	1.06131	428.9675	454.336	1.4797	3.58E-06	1.4797	421.3153	623.7871
0.87284	1.01184	1638.505	1651.001	1.04729	0.51794	1.04729	1361.005	1429.681
0.04833	1.165	729.7944	849.8413	1.03904	0.54358	1.03904	1323.492	1378.32
0.57854	1.05696	358.9479	378.5006	-1.14126	0.25369	0.87622	345.4971	302.2452
0.27753	1.12474	380.3372	427.8617	1.22421	0.01444	1.22421	957.7811	1171.18
0.93569	0.99381	3386.643	3401.603	1.01435	0.80421	1.01435	3613.825	3662.573
0.14503	1.1025	2773	3058.174	1.8295	2.06E-29	1.8295	2487.865	4553.567

3.06E-08	0.77051	2296.041	1768.974	1.3741	6.50E-13	1.3741	1824.747	2507.373
0.56056	1.50705	39.42079	58.31927	2.71149	0.3219	2.71149	28.14205	86.52917
0.00067	1.19088	3028.757	3608.45	1.42439	0.00002	1.42439	3119.336	4448.253
0.00186	0.69087	1366.302	932.9547	1.11074	0.37879	1.11074	1031.656	1155.286
0.00002	0.8338	6208.244	5177.158	1.42577	1.60E-07	1.42577	4701.826	6722.013
0.89235	0.98606	665.0259	660.197	-1.03555	0.75945	0.96567	627.1166	602.1128
0.01931	0.73705	1998.605	1462.601	1.14288	0.02233	1.14288	1677.885	1918.841
0.82491	1.01566	818.9314	831.7711	1.26309	0.0047	1.26309	1075.097	1356.959
0.90511	0.86321	32.65634	32.60717	-1.25626	0.84353	0.79602	38.88235	32.84485
0.03365	1.1329	1110.792	1258.856	1.96285	2.19E-18	1.96285	1193.556	2340.102
0.91172	1.02255	1411.672	1481.782	-2.29285	6.04E-21	0.43614	1099.836	480.2024
0.25619	1.08463	2663.059	2876.382	-1.29987	1.16E-06	0.76931	2376.947	1832.478
0.00563	0.83144	29116.55	24284.73	-1.06349	0.19859	0.9403	28587.2	26874.29
0.37524	0.90171	671.0544	610.1992	-1.27449	0.00906	0.78463	486.7051	381.7983
0.7951	1.01727	3533.355	3603.903	-1.16036	0.0008	0.8618	3865.831	3330.048
0.68957	1.02017	2323.53	2366.232	1.01818	0.68168	1.01818	2223.779	2264.313
0.86307	0.97572	271.256	264.8064	-1.07379	0.61955	0.93128	279.6099	259.5847
0.00149	0.73137	10656.92	7790.64	1.64776	9.13E-23	1.64776	7692.458	12684.44
0.01291	0.90185	4340.953	3915.459	1.01779	0.69256	1.01779	4132.875	4206.22
0.10413	0.82853	583.0114	486.7145	1.62882	3.61E-07	1.62882	444.4526	726.414
0.08772	0.84425	2284.46	1925.729	1.14634	0.01257	1.14634	1807.271	2076.297
0.40518	0.84282	410.6178	352.3325	-1.80133	0.17639	0.55515	250.8017	139.2316
0.1222	1.09311	1405.673	1539.365	1.04091	0.71036	1.04091	1332.983	1378.037
0.64793	1.0842	259.5201	282.5312	-1.20287	0.14093	0.83135	412.9435	345.1525
0.00024	0.80696	1472.857	1188.633	1.11996	0.21835	1.11996	1330.774	1486.319
0.03546	0.68201	276.5783	186.494	-1.02554	0.87089	0.9751	226.8286	220.8852
0.62809	1.0522	368.9348	387.1997	1.4387	0.0872	1.4387	338.7613	478.3778
0.00487	1.12867	2543.062	2870.661	1.23672	0.00381	1.23672	2948.151	3640.185
0.9112	1.01187	2031.996	2043.085	-1.07639	0.37101	0.92903	1982.614	1847.044
0.98354	0.99862	1047.884	1043.254	-1.18887	0.00223	0.84114	1046.079	879.3906
0.09787	1.16333	428.5235	496.9297	1.12796	0.18177	1.12796	430.2391	485.8127
0.83823	0.9862	1156.904	1144.933	1.47633	0.0004	1.47633	946.1937	1399.78
0.64935	1.01978	3666.732	3738.552	1.03415	0.5908	1.03415	3890.216	4015.543
0.42236	0.91878	326.6615	300.5949	-1.08044	0.64499	0.92555	279.8353	256.9955
0.96773	1.00353	497.7661	498.7882	-1.06449	0.54623	0.93942	487.1063	458.4747
0.09121	1.09217	1552.224	1694.3	-1.0195	0.77523	0.98087	1516.884	1482.948
0.06401	0.74313	461.6559	337.0881	1.20827	0.1252	1.20827	336.0792	404.2966
1	1	17.95707	23.14121	1	1	1	21.45928	29.7617
0.64685	1.06881	417.0855	452.509	-1.31969	0.03667	0.75775	446.524	336.5829
0.17339	1.15891	951.7933	1101.003	1.64932	2.49E-08	1.64932	840.8774	1394.543
0.27401	1.08031	605.0546	652.9404	1.0322	0.53533	1.0322	1275.566	1316.729
0.95183	0.97327	83.92635	81.54097	-1.17901	0.84866	0.84817	58.82114	56.39215
0.20714	1.07345	2990.291	3203.29	1.00103	0.98255	1.00103	3230.02	3231.875
0.29838	1.16006	209.1868	241.9549	1.21229	0.22168	1.21229	200.6958	243.1057
0.30376	1.15305	339.3023	386.3934	1.59032	0.00002	1.59032	301.0989	479.8297
0.16635	1.07833	1382.992	1490.283	1.44618	9.34E-08	1.44618	1300.565	1879.701
0.76761	0.96462	4297.193	4134.909	-1.02577	0.8159	0.97487	4036.756	3944.913
0.91353	1.09259	37.14822	40.61378	-1.01136	0.98774	0.98877	41.91029	41.81001
0.00001	0.77416	1074.999	833.4139	1.10616	0.28351	1.10616	902.2952	993.6964
0.0482	0.61991	232.3049	147.7553	-1.99968	0.04884	0.50008	333.7918	166.9223
0.11804	0.85209	404.1462	343.3641	-1.04785	0.83515	0.95434	326.9762	305.9081
0.86411	0.93576	74.18477	69.57233	1.2199	0.75805	1.2199	62.36307	74.79614

0.46084	1.06473	3023.183	3168.534	-1.16845	0.04707	0.85583	3170.874	2722.245
0.19492	0.90341	1149.952	1041.601	1.2887	0.00007	1.2887	1199.498	1543.621
0.26588	1.08552	2370.447	2577.292	1.24597	0.00031	1.24597	2153.709	2679.812
6.81E-07	0.70587	1230.194	869.699	-1.07292	0.31715	0.93204	1040.399	968.8942
0.81946	1.34593	26.89425	35.8511	-1.07953	0.95043	0.92633	26.01377	32.06017
0.34823	0.90454	907.1611	821.2979	1.38401	0.00001	1.38401	1114.033	1542.572
0.28886	1.07582	533.7927	573.8931	1.0912	0.44194	1.0912	519.419	570.4341
0.0201	1.14067	697.433	795.8507	-1.05305	0.52008	0.94962	808.7446	766.9965
0.00016	0.69244	2907.772	2010.389	1.09455	0.16422	1.09455	2430.614	2663.169
0.04539	0.74762	1193.421	886.592	-1.06968	0.36591	0.93486	1167.761	1092.634
0.13589	1.11723	13538.54	15095.44	1.33607	2.93E-09	1.33607	14040.6	18777.21
0.17174	1.06797	4403.645	4698.855	1.11628	0.0162	1.11628	4548.064	5077.924
0.09155	1.36579	716.4954	984.5276	1.13496	0.10886	1.13496	523.5563	594.8388
0.01986	1.10325	2656.919	2930.69	-1.13937	0.00391	0.87767	2653.435	2328.873
0.88245	0.9901	932.7037	921.2797	-1.13181	0.07772	0.88354	870.1439	769.9745
0.97584	1.00353	328.1251	330.3055	-1.1377	0.7102	0.87896	257.5162	226.3476
0.46786	1.04103	1214.613	1263.176	1.1897	0.00367	1.1897	1193.487	1421.337
0.44839	1.06821	962.1451	1022.986	1.01667	0.79488	1.01667	996.3884	1014.344
0.74938	1.04779	1025.458	1087.694	-1.91587	0.00026	0.52196	835.3535	436.0181
0.60702	1.03658	500.4525	518.5391	1.07731	0.35577	1.07731	524.1929	565.1077
0.23117	1.13908	1045.514	1190.367	1.35189	0.00004	1.35189	1096.406	1482.187
0.23434	0.94032	1053.099	990.0779	-1.11187	0.11377	0.89939	975.896	876.6939
0.47782	0.92003	444.9879	406.1149	-1.00971	0.90858	0.99038	609.718	605.1251
0.76893	0.93633	12489.47	11516.07	-3.70457	0	0.26994	15904.83	4292.8
1.50E-06	0.62662	1968.967	1225.071	1.11337	0.23974	1.11337	1357.817	1518.626
1.52E-08	0.78828	6995.357	5514.543	1.07025	0.35175	1.07025	5880.783	6290.295
0.07192	1.10347	1423.175	1568.363	-1.11266	0.16258	0.89875	1758.969	1573.636
0.34989	0.89076	815.5034	732.5143	-1.12145	0.39767	0.8917	603.2833	542.8286
0.05355	0.8763	976.1138	854.8167	4.42251	0	4.42251	978.8469	4329.738
0.00095	0.77677	1385.216	1076.437	1.14842	0.02242	1.14842	1414.613	1626.123
0.00639	0.46944	296.5621	133.4235	-1.55006	0.06346	0.64514	199.8528	128.1978
0.21334	1.0866	4486.687	4871.156	-1.29861	0.00004	0.77005	4414.822	3395.938
0.56797	0.94555	414.1688	390.3466	1.06875	0.64282	1.06875	382.3756	405.038
0.93567	0.99268	454.8558	450.2389	1.43754	1.11E-07	1.43754	472.1179	678.5482
0.43019	1.04779	1163.636	1218.335	-1.06444	0.37548	0.93946	1474.401	1380.629
0.75535	1.03658	3027.345	3138.081	1.27974	2.97E-08	1.27974	2875.076	3679.052
0.56244	0.93792	529.5937	500.2722	1.00571	0.95752	1.00571	469.3021	473.6892
0.30705	0.82013	189.5116	156.2832	-1.13084	0.68079	0.8843	144.1827	126.2577
0.38507	1.0796	514.2226	553.3705	2.41836	0	2.41836	1245.246	3013.648
0.72094	1.02474	585.6316	600.6791	1.06642	0.33194	1.06642	633.8411	676.2094
0.82284	1.06901	137.7576	143.4076	1.13278	0.72172	1.13278	118.9129	136.3559
0.3055	0.91392	483.0263	441.8008	-1.08241	0.45771	0.92387	657.0523	603.748
0.17849	0.87822	8052.772	7128.002	1.20661	0.00002	1.20661	7024.049	8475.717
0.00083	1.18892	11609.53	13775.06	1.808	2.03E-06	1.808	10390.61	19001.78
0.11559	0.79414	423.9627	340.7018	-1.28094	0.24695	0.78068	258.3898	202.6101
0.05867	0.8063	18067.07	14531.85	-1.13667	0.2006	0.87976	14220.2	12513.14
0.33445	1.12319	540.3712	601.6378	1.10499	0.30055	1.10499	537.1244	595.6168
0.34126	1.18696	951.8316	1130.654	2.44911	3.10E-13	2.44911	864.6663	2142.069
0.40576	1.0569	2496.915	2636.742	-1.06483	0.37917	0.93912	2689.746	2548.312
0.00045	0.67538	1015.602	679.9752	1.03403	0.67681	1.03403	750.6328	778.219
0.02865	0.69011	2365.958	1607.929	1.00289	0.98017	1.00289	1932.257	1947.406
0.12155	0.86806	2176.831	1902.422	-1.11202	0.29435	0.89926	2488.591	2221.735

0.60577	1.08178	188.9493	204.7972	1.14701	0.49074	1.14701	187.7804	214.9597
0.04616	1.37422	669.9201	917.2185	3.67199	1.05E-16	3.67199	649.9724	2431.987
0.56992	1.02834	3628.054	3732.94	-1.01946	0.74922	0.98091	3647.197	3574.143
2.69E-07	0.7515	3219.144	2419.434	1.11937	0.07519	1.11937	2551.835	2856.54
0.06039	1.12637	21456.15	24247.6	1.0514	0.3019	1.0514	23475.48	24673.03
0.92558	0.9848	467.6989	451.6276	1.5865	0.00032	1.5865	404.9657	647.1388
0.0779	1.19146	2777.008	3382.268	2.08812	1.95E-15	2.08812	3008.934	6312.93
0.8298	0.98397	1160.094	1142.376	1.0105	0.93829	1.0105	883.5888	898.3362
0.02112	1.15117	2296.212	2642.845	-1.11218	0.03276	0.89914	2594.76	2332.947
0.00004	0.69199	6523.88	4489.628	1.18046	0.00504	1.18046	5629.897	6603.633
0.27181	0.90621	758.0416	683.8422	-1.06535	0.31028	0.93866	714.4984	670.9271
0.00235	1.41477	27385.38	38052.95	-2.73324	4.44E-11	0.36587	54656.59	19281
0.06052	1.08454	7050.122	7642.969	1.04362	0.3596	1.04362	7479.367	7799.156
0.01598	0.77931	2624.481	2084.683	-1.39608	0.00387	0.71629	1083.425	777.1724
0.07684	1.09645	1973.339	2161.233	1.01424	0.75773	1.01424	2286.562	2320.259
0.31375	1.28196	249.6314	308.6134	2.30764	2.44E-06	2.30764	215.8548	500.1484
0.21704	1.07483	1101.925	1185.655	1.12224	0.025	1.12224	1232.532	1383.613
0.84509	0.95843	343.0244	317.0208	-1.15826	0.55703	0.86337	319.8071	275.9752
0.48477	1.055	698.6018	735.2747	-1.02885	0.71708	0.97196	1492.19	1434.614
0.00003	0.77568	2094.14	1622.743	-1.09981	0.11533	0.90924	1914.59	1738.112
0.87944	0.96392	156.6732	150.7549	1.27171	0.113	1.27171	223.1093	284.636
0.18807	1.08789	3984.365	4342.199	-1.09741	0.06923	0.91124	4186.979	3819.896
0.81316	1.02012	469.6292	480.172	-1.02185	0.83897	0.97861	375.3473	367.6716
0.65363	1.03025	583.7643	601.9335	-1.00628	0.95227	0.99376	639.9669	633.0113
0.95615	0.93811	35.13849	32.35991	-1.13725	0.91289	0.87931	35.46218	32.92168
0.53284	0.9611	927.9149	891.0672	-1.34026	0.0004	0.74612	923.1277	690.554
0.61659	0.94788	17563.13	16771.07	-1.0716	0.26084	0.93318	15907.99	14825.25
0.29115	0.89617	846.7621	753.9278	-1.01269	0.88615	0.98747	780.9107	773.2377
0.0586	1.1085	948.8068	1052.613	1.04385	0.49956	1.04385	1095.923	1142.396
0.118	1.08511	5280.129	5724.563	-1.00995	0.81003	0.99015	5799.458	5742.764
0.6177	0.96098	3795.024	3652.565	-1.18614	0.01812	0.84307	3913.299	3284.4
3.66E-07	0.71373	23440.6	16673.13	-1.36682	0.00023	0.73163	22967.04	16893.3
0.68041	1.078	195.8764	209.5001	-1.09117	0.62659	0.91645	212.3826	194.6968
0.00025	0.73051	6988.719	5107.931	-1.13484	0.06183	0.88118	6067.205	5336.147
0.96981	0.99564	471.952	471.3574	5.49987	0	5.49987	406.0615	2231.896
0.00227	1.15707	3591.303	4153.121	1.02518	0.67094	1.02518	4344	4444.891
0.00086	0.67676	1060.558	710.3379	1.15163	0.1146	1.15163	1142.889	1318.973
0.33251	1.0726	485.0793	520.1107	1.03807	0.6468	1.03807	510.68	529.4968
0.89918	0.98817	2090.287	2089.806	-1.24527	0.00123	0.80304	1828.821	1471.188
0.07691	1.15571	5868.31	6770.69	-1.36579	0.0093	0.73218	7340.685	5335.298
0.96176	0.99192	164.2114	162.9117	-1.24377	0.45449	0.804	167.5093	135.0902
0.37567	0.81089	206.2693	163.7249	1.74325	0.00057	1.74325	149.6979	260.9742
0.82922	1.01009	1401.307	1415.977	-1.02712	0.58051	0.9736	1446.903	1409.039
0.07919	0.85947	1355.195	1161.301	1.13124	0.0679	1.13124	1152.719	1307.146
0.76276	0.98656	1564.155	1542.793	-1.0669	0.29527	0.9373	1598.902	1493.526
0.01152	0.79527	474.2313	376.4532	1.10728	0.34345	1.10728	436.7808	485.656
0.054	0.82353	1661.834	1363.688	1.03183	0.64197	1.03183	1381.993	1426.661
0.01462	0.75511	24274.63	18330.04					
0.09502	1.08166	1872.675	2026.82	-1.11322	0.05528	0.8983	1953.534	1755.659
0.43337	1.05915	1593.153	1684.994	-1.7891	4.71E-19	0.55894	1594.528	891.5452
0.87926	0.97275	432.86	426.8729	-1.83253	0.00073	0.54569	408.4842	225.8628
0.25445	0.89879	670.236	599.5282	1.70896	9.87E-13	1.70896	557.5853	954.7313

0.02993	1.20428	485.1242	582.605	1.45499	0.00007	1.45499	414.0438	600.9706
0.05367	1.14651	1250.963	1441.717	1.02796	0.79281	1.02796	1426.829	1464.846
0.78352	0.98103	1449.103	1425.013	-1.06377	0.25665	0.94005	1325.104	1245.241
0.03497	0.73612	1088.397	793.4801	1.17346	0.08842	1.17346	893.0773	1051.568
0.97249	0.99618	4634.235	4619.629	-1.28342	0.00007	0.77917	3551.638	2768.305
0.98954	0.99739	171.8738	171.4879	1.13559	0.67932	1.13559	131.2936	151.3999
0.14481	0.87633	1085.162	951.8117	1.38839	0.0358	1.38839	950.8742	1318.643
0.84051	1.03702	264.4506	268.8558	1.57654	0.02354	1.57654	215.0436	334.6574
0.02392	0.82597	5283.902	4374.892	-1.12139	0.22286	0.89175	4705.591	4150.258
0.55785	1.06101	360.0309	381.2906	1.12281	0.46309	1.12281	314.4617	348.9406
0.93498	0.98867	463.2781	453.6664	1.15039	0.33154	1.15039	413.085	480.1456
0.9005	1.16009	32.27228	40.41335	1.67979	0.68269	1.67979	34.62123	49.22085
0.0003	0.77142	678.5609	522.5042	-1.09951	0.21241	0.9095	607.1084	551.5289
0.00346	0.78652	1926.964	1511.783	1.54424	8.01E-21	1.54424	1676.551	2588.949
0.90703	0.98143	292.3279	289.7113	-1.16811	0.43897	0.85608	245.4935	212.605
0.05622	0.69445	584.0593	394.3663	1.2367	0.1237	1.2367	466.6857	583.4385
0.00021	0.73056	4308.713	3144.304	-1.0707	0.54889	0.93397	3065.003	2857.228
0.47664	0.92101	850.4078	788.3482	-1.56808	6.17E-08	0.63772	771.394	490.921
0.20594	1.0692	1942.415	2081.787	1.28733	0.00005	1.28733	1925.971	2475.375
0.08669	0.78451	445.9146	345.387	-1.03052	0.8144	0.97038	392.2372	382.5283
0.00189	0.82749	1648.385	1364.032	-1.53706	1.46E-08	0.65059	1246.319	809.5032
0.15921	0.90868	1066.023	966.4248	1.58093	7.57E-09	1.58093	904.9002	1433.831
0.02591	1.11468	4392.941	4886.46	1.04236	0.40068	1.04236	4412.841	4593.931
0.36589	1.05918	1563.206	1650.574	-1.00093	0.98597	0.99907	1731.507	1727.255
0.63688	0.96678	2496.141	2421.61	-1.27142	0.00014	0.78652	2454.923	1925.937
0.99518	0.99949	389.3373	388.7581	1.15658	0.14715	1.15658	437.3318	507.335
0.02746	1.33882	11812.26	15554.38	-2.43447	2.11E-07	0.41077	26399.47	10400.94
0.2422	1.1151	419.7498	468.5302	-1.17902	0.07421	0.84816	753.8559	641.163
0.59299	1.04475	711.1633	739.8952	-1.02297	0.8076	0.97755	795.7468	780.9871
0.00503	1.22748	3823.51	4726.377	1.65266	2.51E-24	1.65266	3533.495	5837.864
0.65909	0.90501	2541.291	2265.094	-2.69822	4.72E-14	0.37061	1718.135	630.5963
0.43278	1.07725	545.2292	586.1061	1.00747	0.90862	1.00747	1314.849	1321.245
4.55E-06	1.20799	4694.848	5671.399	-1.4868	3.77E-11	0.67258	6319.332	4243.952
0.32319	1.09554	7559.511	8307.447	1.53315	3.83E-10	1.53315	7508.675	11469.16
0.00108	0.66739	1238.166	819.1968	2.20289	2.68E-21	2.20289	895.6971	1985.195
0.96392	1.00661	224.364	226.6574	1.11456	0.60307	1.11456	209.5199	232.2932
0.89417	0.98724	2088.8	2057.457	1.78348	1.03E-07	1.78348	1827.796	3307.363
0.49105	0.85883	2435.627	2057.635	-2.20175	6.89E-17	0.45418	1883.863	849.1924
0.17773	1.08453	1549.163	1680.71	1.5367	4.19E-06	1.5367	1529.988	2342.718
0.98684	1.00169	1101.129	1099.797	-2.07205	0.00003	0.48261	915.2155	441.6966
0.09314	0.85254	2481.672	2092.904	-1.06282	0.46543	0.94089	2034.857	1917.777
0.00001	0.70313	1227.835	865.8033	-1.29728	6.63E-06	0.77084	920.1412	709.1943
0.6793	1.07157	219.7975	234.6191	1.0123	0.93178	1.0123	255.7413	259.4106
0.67983	0.96494	1671.53	1608.163	1.08155	0.16952	1.08155	1580.869	1712.851
0.53341	1.04677	2046.143	2133.55	1.02357	0.62156	1.02357	2207.985	2261.115
3.07E-07	0.73513	1860.653	1367.259	-3.01833	0	0.33131	1731.337	573.0178
0.39507	0.80825	159.3313	130.3478	-1.14647	0.6521	0.87224	140.5848	122.4449
0.20229	1.06301	6211.113	6604.931	-1.32198	0.00028	0.75644	6531.752	4938.682
0.38126	1.06701	1286.899	1372.155	1.36222	0.00001	1.36222	1205.753	1640.446
0.6882	0.93294	222.7058	209.4196	-1.05206	0.813	0.95052	184.3726	174.293
0.7283	1.04694	1136.588	1189.944	-1.59542	5.76E-09	0.6268	1976.066	1243.542
0.00101	1.15075	2068.271	2380.385	1.10217	0.18718	1.10217	2310.143	2557.171

0.33958	0.81698	409.272	340.3915	-1.65175	0.10177	0.60542	206.79	122.3844
0.00006	0.80123	2271.368	1820.563	1.16801	0.01224	1.16801	1961.728	2291.767
0.856	0.96607	437.9654	436.3146	-3.04517	7.28E-08	0.32839	572.7054	189.8738
0.095	1.133	783.0483	885.3431	1.05011	0.43284	1.05011	959.3951	1006.109
0.0003	1.16961	21143.27	24723.57	-1.7551	7.53E-29	0.56977	23811.03	13568.63
0.17887	1.05899	2023.221	2142.57	1.05948	0.36548	1.05948	2071.086	2198.473
0.52986	0.91256	259.7319	238.3276	-1.19491	0.37248	0.83688	223.2091	187.4386
0.01899	0.88188	1617.318	1426.221	1.34865	5.00E-07	1.34865	1349.403	1821.718
0.72767	0.96148	3325.289	3208.858	1.79862	6.29E-12	1.79862	2827.183	5090.362
0.48201	0.81573	244.2691	202.9315	-1.54819	0.2125	0.64592	141.0703	90.83409
0.08819	0.7699	918.0933	696.5833	1.34519	0.00188	1.34519	711.9406	962.7643
3.84E-08	0.57774	18799.12	10843.48	-2.38513	1.04E-11	0.41926	18543.74	7631.834
0.00028	0.66359	3080.279	2032.48	-1.55618	2.15E-07	0.6426	2549.972	1639.935
0.81323	0.98868	1236.094	1222.614	1.08749	0.35772	1.08749	1236.068	1334.995
0.32156	1.13716	282.4875	319.424	1.11175	0.48566	1.11175	275.6097	308.1995
0.00006	0.81194	1632.247	1325.977	-1.12575	0.0417	0.8883	2144.689	1902.231
3.61E-08	0.72047	6094.349	4388.712	1.13195	0.00372	1.13195	5121.848	5795.915
0.00465	1.17193	2117.797	2494.84	1.10098	0.21562	1.10098	3011.565	3339.308
0.70544	0.91428	168.1186	153.4641	1.33747	0.20764	1.33747	185.3506	246.5956
0.00788	0.79897	1735.343	1387.254	1.13345	0.14884	1.13345	1457.88	1654.466
0.79893	1.01514	4096.998	4170.794	1.0892	0.25887	1.0892	4249.959	4612.634
0.20715	1.16671	3505.915	4043.559	-1.36327	0.01435	0.73353	4967.801	3616.852
0.86948	1.01529	348.3686	353.6954	1.07816	0.65052	1.07816	267.3609	286.0751
0.22295	1.10631	628.8178	693.1455	-2.36581	8.98E-08	0.42269	604.715	258.2448
0.69872	0.97169	1625.492	1589.229	-1.32395	5.69E-07	0.75531	1497.139	1131.158
0.53204	1.0289	1429.417	1470.377	1.01407	0.80172	1.01407	1637.546	1662.195
0.41505	1.04554	1820.848	1900.113	-1.1838	0.00041	0.84474	1995.977	1686.91
0.44863	1.10078	1142.312	1253.772	1.13153	0.1297	1.13153	971.1738	1100.941
0.02933	0.71525	3596.423	2557.065	-1.06396	0.55649	0.93988	2862.839	2700.982
0.47087	1.1093	891.1758	990.8092	1.11621	0.30664	1.11621	664.7061	738.7963
0.00757	1.12647	4211.453	4740.828	1.03686	0.43355	1.03686	4563.284	4732.408
0.88257	1.02287	240.0111	244.1308	1.0523	0.75463	1.0523	228.7277	241.5234
0.71538	1.11488	112.8535	124.3771	1.13321	0.61719	1.13321	137.985	156.3828
0.38977	0.91601	1279.153	1178.703	-1.16862	0.05912	0.85571	1018.71	873.0825
0.75813	1.03398	413.966	425.6513	-1.01963	0.85024	0.98074	372.838	365.4797
2.66E-07	0.65106	3476.402	2249.505	1.76072	5.04E-38	1.76072	2517.022	4431.812
0.18232	0.81312	548.6765	437.6602	1.16594	0.20564	1.16594	638.7297	750.1334
0.83909	0.99129	4077.764	4042.657	1.10428	0.02168	1.10428	3577.001	3949.76
0.53066	1.05459	844.7026	888.4473	-1.10815	0.16895	0.90241	722.9022	651.3535
0.08497	1.17377	18441.19	21356.2	-1.81236	4.33E-13	0.55177	30339.19	16580.18
0.49568	1.06539	401.5225	427.4829	1.16489	0.16029	1.16489	348.7391	405.3302
0.00427	0.7568	1776.381	1344.851	-1.10853	0.1712	0.9021	1573.013	1420.249
0.09286	0.84892	22769.61	19442.35	1.00763	0.90843	1.00763	19631.84	19797.19
0.3496	1.09072	9516.713	10419.06	-1.56985	2.18E-09	0.637	9586.141	6087.175
0.13472	0.83435	556.7322	459.8568	1.53146	0.00202	1.53146	451.4543	685.9424
0.00502	1.16326	1962.967	2280.069	1.1617	0.00128	1.1617	2310.436	2682.157
0.99327	0.99938	2577.251	2585.722	-1.15174	0.13301	0.86825	2629.011	2287.46
0.15205	0.90713	2412.459	2189.32	-1.33835	3.50E-09	0.74719	2055.768	1535.848
0.19512	0.89628	2418.765	2176.953	1.41731	1.18E-07	1.41731	2198.899	3119.07
0.024	1.11567	6369.604	7118.039	1.0484	0.24241	1.0484	6748.459	7075.05
0.01371	1.11325	3864.841	4301.722	1.03303	0.47064	1.03303	4543.016	4697.271
0.02071	0.84826	1198.279	1013.916	1.10823	0.0468	1.10823	1027.943	1139.442

0.94426	1.00732	628.9435	637.1962	-1.19189	0.05927	0.839	577.8278	483.8008
0.7857	1.05811	169.937	178.1288	1.36574	0.14929	1.36574	137.8027	188.3817
0.76265	1.24476	51.13595	59.98001	1.06904	0.93622	1.06904	58.77306	59.97179
0.99604	1.00038	550.759	549.9407	-1.00246	0.98382	0.99755	495.6167	497.5227
0.89344	1.00618	1783.905	1793.739	-1.0954	0.22637	0.91291	1832.131	1676.529
0.49194	0.94257	1236.1	1163.909	1.07163	0.36335	1.07163	1086.33	1166.427
0.70847	1.02754	1309.438	1343.502	1.39331	8.23E-06	1.39331	1236.904	1718.369
0.00058	0.80656	2693.132	2172.7	1.06157	0.50565	1.06157	2393.145	2543.045
0.39871	1.11155	244.1842	270.7792	1.46411	0.04293	1.46411	223.008	322.3982
0.02406	0.70621	5023.495	3525.443	1.03602	0.74676	1.03602	3655.587	3815.077
0.00347	1.27271	1066.177	1356.123	1.67079	9.71E-17	1.67079	1018.687	1701.645
0.27217	0.81541	412.9282	327.2341	1.39002	0.00441	1.39002	398.7784	557.4395
0.36353	0.86891	310.3961	266.6349	1.40718	0.02449	1.40718	242.5123	343.354
2.63E-13	0.72934	3168.986	2311.159	-1.36649	6.24E-08	0.7318	2566.073	1880.387
0.10328	1.18692	2474.168	2964.838	1.51566	3.18E-15	1.51566	2137.158	3237.802
0.28024	1.05199	3932.423	4143.357	-1.12604	0.04054	0.88807	4089.521	3628.69
0.68566	1.07474	217.485	233.6328	-1.04208	0.83557	0.95962	206.6904	197.1604
0.2367	1.0574	3711.175	3921.544	1.5456	2.49E-23	1.5456	3510.104	5424.589
0.85214	1.03146	197.1228	202.4783	-1.0816	0.70881	0.92456	179.4354	165.2664
0.89758	1.05436	85.02395	90.40499	1.00092	0.99873	1.00092	71.04415	71.67802
0.57729	0.97065	3885.708	3766.994	1.06693	0.1256	1.06693	3711.313	3959.964
0.0449	0.82278	5756.104	4765.42	1.28877	0.00524	1.28877	4286.255	5488.95
0.12716	0.72788	341.142	240.4682	1.24241	0.27105	1.24241	206.508	256.1385
0.01454	1.12627	2472.083	2790.673	-1.09125	0.0462	0.91638	3998.031	3664.6
0.59515	1.04411	1046.637	1096.181	-1.07271	0.38211	0.93222	1053.711	979.0966
0.79075	1.03921	1803.462	1885.677	1.83979	1.96E-08	1.83979	1815.339	3350.146
0.35603	0.91285	3701.216	3365.901	1.22886	0.00125	1.22886	3320.584	4079.175
0.96012	1.0058	476.8158	481.989	1.00385	0.97193	1.00385	378.2636	378.7972
0.26846	0.83585	433.0649	354.673	1.43259	0.00016	1.43259	323.96	464.4459
0.67267	1.06344	213.463	227.0724	1.15475	0.49031	1.15475	221.8083	254.3094
0.34902	1.04582	1996.2	2085.77	-1.03517	0.54526	0.96602	2799.125	2710.142
0.23144	0.92821	1102.375	1024.467	1.11329	0.16298	1.11329	1024.278	1138.078
0.00043	0.75971	2112.247	1603.484	1.35796	0.00014	1.35796	1747.27	2379.481
0.02494	1.11434	2778.396	3098.308	-1.17808	0.04218	0.84884	3401.488	2870.349
0.73231	1.11839	122.0314	135.1962	-1.0305	0.84223	0.97041	347.3501	334.1373
0.0823	1.10301	4247.087	4674.769	2.0177	2.29E-20	2.0177	3760.928	7590.058
0.04985	0.77537	635.2793	486.6399	1.50244	4.90E-06	1.50244	515.2509	772.151
0.26698	0.93507	2093.34	1962.569	-1.13394	0.06389	0.88188	2624.394	2304.582
0.04145	0.70602	475.0328	328.0309	1.06703	0.54523	1.06703	387.0286	414.0965
0.34126	1.04006	3233.736	3363.537	-1.05814	0.34696	0.94505	3612.031	3404.021
0.83509	1.02131	570.6736	580.1249	1.42307	2.62E-06	1.42307	654.7507	933.5109
0.47723	1.07351	1008.652	1089.488	1.2348	0.10236	1.2348	932.4926	1150.011
0.53348	0.93444	1277.589	1200.68	-1.29123	0.00127	0.77445	1046.458	812.2104
0.87711	1.01612	6862.105	7016.321	1.59718	0.00001	1.59718	7736.08	12273.92
0.05814	0.8302	3233.328	2708.695	1.16576	0.02746	1.16576	3048.299	3560.497
0.22948	0.89933	1587.136	1429.8	1.15955	0.04496	1.15955	1724.635	1997.294
0.31261	0.91385	1098.809	1010.688	-1.11235	0.22532	0.89899	914.5447	819.1679
0.63022	1.05459	675.9114	707.6647	1.18318	0.04412	1.18318	583.5356	692.0713
0.70338	0.97022	863.9699	841.9907	-1.06367	0.32164	0.94014	1363.865	1283.902
0.68799	0.96982	1919.559	1868.823	-1.17776	0.0007	0.84907	2021.575	1716.131
1	1	17.67411	23.08818	1	1	1	17.87708	31.48173
0.66082	0.93443	397.4331	376.5955	-1.44644	0.01219	0.69135	347.7284	239.2292

0.03918	0.80458	2144.152	1721.503	-1.27151	7.40E-06	0.78647	1634.879	1285.967
0.09371	0.77088	455.4619	345.3859	1.30364	0.01666	1.30364	358.065	468.148
0.04466	0.71544	558.6508	406.5052	-2.78339	1.27E-08	0.35927	348.0501	125.3904
0.8735	1.06232	95.17415	103.3904	1.41156	0.5682	1.41156	68.96941	104.0642
0.00002	0.76025	2035.294	1546.561	1.09699	0.05263	1.09699	1630.694	1788.042
0.83341	1.02529	6446.731	6741.272	1.20524	0.09163	1.20524	7093.966	8543.221
0.95333	1.00614	586.9318	586.5477	-1.01877	0.77936	0.98158	622.5952	611.1566
0.22538	1.09564	880.2327	962.4277	1.78157	4.99E-09	1.78157	838.933	1492.102
0.30336	1.18444	174.7715	206.6453	-1.08711	0.78555	0.91987	180.9092	159.0378
0.36532	1.11073	1286.403	1438.1	1.18245	0.00225	1.18245	1116.004	1318.997
0.6687	0.93823	267.4092	250.5205	-1.2436	0.08508	0.80412	302.0338	242.6368
0.38143	1.04815	2233.584	2344.967	-1.21121	0.00001	0.82562	2376.791	1962.552
0.32787	1.07875	586.2938	630.6782	1.02107	0.78331	1.02107	637.1481	651.4448
0.87133	1.02182	217.8447	222.6538	1.05345	0.79541	1.05345	193.0835	202.1494
0.80948	1.01998	1066.698	1084.008	1.33268	3.70E-09	1.33268	1060.856	1413.577
0.53732	0.68566	53.01128	36.35966	-1.2139	0.768	0.82379	69.54291	55.7092
0.00084	0.70732	1777.017	1256.841	-7.40024	4.65E-28	0.13513	1540.332	208.5771
0.03769	1.10556	5715.03	6325.099	-1.68243	7.60E-18	0.59438	7317.994	4339.707
0.88783	0.97703	7006.165	6880.625	-1.55834	4.76E-10	0.64171	6632.223	4259.572
0.75512	0.97962	1254.854	1224.186	-1.06663	0.31969	0.93754	1166.481	1090.902
0.98736	1.00125	1649.75	1656.72	-1.59249	2.63E-08	0.62795	1772.672	1108.154
0.86625	0.98186	304.9883	299.225	-1.23828	0.20735	0.80757	303.2554	242.7583
0.04342	1.15652	1384.914	1606.807	-1.05021	0.50525	0.95219	1715.865	1631.236
0.40523	0.94937	3872.844	3675.261	1.75799	8.62E-22	1.75799	3691.505	6483.963
0.53673	1.1464	210.9594	234.1687	-1.02723	0.78972	0.97349	356.421	347.2297
0.28151	1.05248	3234.92	3408.975	-1.06722	0.23173	0.93701	3793.297	3559.184
0.00712	0.7751	848.066	655.4324	1.01136	0.94424	1.01136	704.3182	704.8506
0.5921	1.02635	1196.062	1227.215	-1.08978	0.17017	0.91761	1128.729	1034.09
0.97837	1.00351	1231.345	1253.772	-1.23378	0.00043	0.81052	974.5077	789.783
0.76712	0.91811	159.5166	143.6051	-1.25333	0.36878	0.79788	184.4776	147.5863
0.88728	0.98935	992.0194	983.8745	1.04051	0.5297	1.04051	996.6401	1036.218
0.5822	1.15321	61133.25	67196.79	-9.44209	2.44E-35	0.10591	100853.9	10463.92
0.00956	0.77606	1938.488	1505.368	-1.12984	0.06467	0.88508	1597.834	1417.486
0.95967	0.99014	1887.497	1855.046	-2.1877	4.50E-08	0.4571	1724.411	788.2288
0.01446	0.78459	497.177	388.6912	1.3791	0.02021	1.3791	396.4403	546.5037
0.0129	0.82107	1067.665	874.0748	1.00094	0.98682	1.00094	954.7389	956.0071
0.55244	1.0572	499.2894	525.7477	-1.07885	0.29292	0.92691	557.3718	516.8445
0.0661	0.84029	8768.367	7373.1	1.29569	0.00399	1.29569	7732.521	10023.73
0.79297	1.02249	1094.05	1116.596	-1.13572	0.00865	0.8805	1497.283	1318.586
0.00155	1.20982	2495.33	3051.605	1.50725	3.97E-17	1.50725	3469.404	5227.026
0.00984	1.23129	707.0401	870.002	1.33683	9.07E-08	1.33683	806.7911	1078.464
0.16701	0.90839	1765.337	1599.2	-1.14323	0.04205	0.87471	1690.079	1477.851
0.27854	1.05056	5881.42	6174.316	-1.03006	0.64189	0.97082	6166.518	5993.445
0.68674	1.02284	1018.054	1041.052	-1.00404	0.96155	0.99597	894.9782	894.2834
0.11301	0.81788	592.8819	489.7678	-1.0917	0.41121	0.916	403.1317	370.0593
0.00637	0.77493	2938.726	2274.729	-1.30488	0.00033	0.76636	2397.07	1833.54
0.59482	1.06055	407.9755	430.1361	-1.01242	0.89578	0.98774	466.5356	461.5909
0.30681	1.05071	3314.07	3490.776	1.00988	0.83726	1.00988	3099.587	3128.712
0.05628	0.82977	4189.271	3471.409	1.15307	0.0115	1.15307	4150.594	4790.645
0.29565	1.05162	2485.584	2618.458	-1.00553	0.93081	0.9945	2436.736	2421.275
0.42664	0.94789	561.2089	531.697	-1.14366	0.16172	0.87439	594.6106	518.181
0.16552	1.09165	1057.851	1156.054	1.12933	0.05805	1.12933	978.6755	1104.138

0.02422	1.16001	1124.24	1305.456	1.53405	0.00013	1.53405	1044.884	1607.639
0.37266	1.03904	1916.154	1990.961	-1.15509	0.00375	0.86573	1703.399	1475.685
4.86E-09	0.60765	4573.324	2768.954	1.05754	0.45351	1.05754	3288.862	3481.674
0.17882	0.86171	1692.9	1461.856	1.33393	6.79E-07	1.33393	1405.007	1876.258
0.6618	1.03338	501.5681	519.0383	1.03926	0.74871	1.03926	486.0179	501.8912
0.71145	1.18203	61.11687	72.21529	1.10322	0.86746	1.10322	74.5537	82.83376
0.91883	1.00868	803.9283	807.4759	-1.02962	0.66299	0.97123	753.6503	732.6679
0.84698	1.07404	82.13751	88.22219	1.08925	0.81439	1.08925	100.8531	109.7717
0.81897	0.96557	526.1144	524.353	-1.13932	0.39515	0.87772	679.6832	592.9888
0.00113	0.52231	872.5978	440.8135	1.01208	0.93084	1.01208	609.585	622.6112
1.08E-07	0.62402	3923.526	2455.538	1.14479	0.03688	1.14479	3972.743	4548.664
0.1426	1.21475	594.9515	716.2797	1.89178	1.75E-13	1.89178	556.0212	1055.495
0.9291	1.03554	206.8666	214.2192	-1.04228	0.62468	0.95943	518.6098	496.9984
0.44554	0.90493	4796.328	4374.811	1.44417	0.00001	1.44417	5356.437	7718.191
0.35544	1.1589	322.389	384.9338	-1.03211	0.73125	0.96889	599.2042	578.7888
0.71169	0.94664	355.5487	333.135	1.30218	0.087	1.30218	280.7919	368.5552
0.01415	1.25141	750.3231	935.0514	-1.25037	0.00136	0.79976	796.6554	637.4803
0.00626	0.80207	1861.744	1486.161	1.0287	0.64376	1.0287	1611.478	1659.547
0.87483	0.98404	500.991	495.6154	1.11424	0.21087	1.11424	453.7853	505.1232
0.05009	1.10572	1640.106	1815.813	1.03079	0.5535	1.03079	1916.569	1973.739
0.06144	0.87547	1705.426	1493.147	1.02658	0.64401	1.02658	1435.219	1472.563
0.83753	1.0231	573.2843	582.0371	1.47494	9.44E-06	1.47494	480.0424	706.4392
0.00625	0.84822	1744.653	1480.695	-1.88799	3.40E-22	0.52966	1864.169	987.3688
0.19138	1.1042	1760.107	1942.916	1.19168	0.00023	1.19168	1596.445	1902.294
0.44453	0.89887	268.2556	241.0962	-1.0332	0.81454	0.96787	277.4326	267.9249
0.92916	1.03635	106.7214	116.658	1.02246	0.91273	1.02246	177.1533	181.6484
0.76406	0.95766	7677.939	7365.48	1.13906	0.30974	1.13906	7054.465	8008.667
0.88945	1.01558	409.8043	415.2397	1.04164	0.7132	1.04164	316.8469	329.6714
0.49963	0.9194	1600.91	1471.884	-1.11295	0.06398	0.89851	1496.085	1345.219
0.05735	1.10243	1551.918	1713.259	1.05438	0.42421	1.05438	1750.354	1842.796
2.12E-07	0.65472	2968.104	1947.668	-1.83314	4.64E-14	0.54551	2166.539	1185.322
0.71259	0.91712	185.6886	172.2363	-1.78992	0.22305	0.55868	119.945	68.70863
0.00025	0.7645	594.6893	455.0342	-1.29915	0.00132	0.76974	572.2534	440.9154
0.90322	0.98886	600.5245	591.2214	-1.07233	0.39592	0.93255	702.5635	656.314
0.57723	0.95509	7966.077	7636.993	2.00954	3.72E-13	2.00954	7290.803	14757.11
0.13787	0.91904	5096.122	4696.227	1.77836	9.84E-22	1.77836	4820.122	8575.07
0.00757	0.76525	2564.218	1961.626	-1.0067	0.87695	0.99334	2031.959	2018.45
0.90476	1.07486	59.82185	64.27332	1.01544	0.98132	1.01544	55.09737	56.0463
0.15802	1.06579	3042.466	3241.684	1.45046	9.49E-18	1.45046	2446.719	3548.949
0.18292	1.08143	31714.71	34262.41	-1.33015	0.00102	0.7518	32740.69	24632.24
0.70322	1.06708	457.9258	478.3063	1.04492	0.76499	1.04492	390.1459	410.5229
0.08934	1.10844	575.9094	638.3026	1.76303	8.32E-08	1.76303	606.4264	1066.324
0.03826	0.72446	468.739	333.8395	-1.1203	0.46584	0.89262	372.2888	334.0718
0.97169	1.00313	471.8501	471.9096	-1.11765	0.34598	0.89474	492.1055	442.4119
0.00753	0.83941	736.6498	617.9844	1.08111	0.34624	1.08111	654.1314	705.4713
0.93663	0.98395	148.9786	146.0978	1.17825	0.55179	1.17825	127.35	149.9973
0.0373	1.10919	1268.309	1408.062	1.0778	0.15906	1.0778	1338.459	1442.464
0.00138	0.83163	979.6013	814.5833	1.15623	0.31328	1.15623	818.8908	940.1417
0.71341	0.96839	357.1953	345.9583	-1.09811	0.50507	0.91065	347.7488	318.726
0.07612	1.16647	3305.653	3858.632	-1.27143	0.00659	0.78652	4728.284	3687.892
0.63027	1.09903	185.9406	202.5829	1.0685	0.62896	1.0685	255.7516	273.4364
0.99211	1.00108	1915.28	1894.862	-1.00382	0.96309	0.9962	2001.308	1994.714

0.29503	1.08504	1394.472	1515.713	1.21138	0.02746	1.21138	1297.337	1574.374
0.18573	0.91503	661.9003	606.3162	1.54751	6.50E-07	1.54751	569.3155	878.8251
0.12349	0.77535	722.5148	549.7056	1.61558	4.85E-08	1.61558	516.5657	837.1436
0.18678	0.88422	15372.73	13548.04	-6.8939	0	0.14506	13902.18	1992.809
0.41456	0.82553	228.0109	184.0055	1.07367	0.75513	1.07367	176.6194	191.4036
0.30782	1.06885	1023.587	1092.273	-1.25335	0.00342	0.79786	894.4882	715.2332
0.87555	1.01335	1971.194	2011.446	-1.04524	0.58568	0.95672	1947.917	1858.062
0.79885	1.01182	2574.521	2605.248	-1.18769	0.10961	0.84197	2845.721	2407.892
0.04298	0.809	2421.273	1975.518	1.24356	0.0007	1.24356	3163.625	3934.983
0.26293	1.24263	325.6624	393.5355	1.67417	3.05E-06	1.67417	293.6108	490.3146
0.77316	0.97676	1039.903	1021.633	-1.07024	0.29205	0.93437	1085.465	1012.52
0.69168	1.0413	306.403	319.4549	-1.00794	0.95602	0.99213	314.539	310.2022
0.4439	1.04305	1097.362	1142.984	-1.20278	0.0045	0.83141	1251.292	1038.825
0.71172	1.02211	2463.82	2520.421	1.00374	0.94514	1.00374	1982.791	1991.745
0.26242	0.92574	1295.358	1198.76	1.83251	8.06E-14	1.83251	1135.851	2079.563
0.70385	1.05039	250.4983	262.3887	1.09448	0.60544	1.09448	199.2999	217.8843
0.81505	1.01412	2212.459	2240.556	-1.00886	0.84558	0.99122	2061.925	2044.698
0.97105	1.00242	4279.855	4260.769	1.13955	0.08631	1.13955	5320.577	6064.629
0.02956	0.78175	7327.36	5742.501	1.07138	0.46716	1.07138	6726.764	7181.472
0.62902	0.93879	1580.207	1496.751	-1.30594	5.16E-07	0.76573	1289.026	986.7079
0.21909	0.92109	2691.507	2472.447	-1.10927	0.13143	0.90149	2706.872	2446.357
0.61277	1.02907	1687.717	1728.296	-1.01571	0.75293	0.98454	1950.252	1918.328
0.32619	0.79354	350.5798	268.5929	-1.35029	0.17387	0.74058	255.5529	190.8871
0.34355	0.94983	1349.99	1282.594	1.07216	0.58825	1.07216	969.9974	1026.703
0.9613	1.0128	151.0959	152.5849	-1.48219	0.32703	0.67468	103.2431	70.07681
0.24787	0.7819	248.8431	190.066	1.29604	0.17888	1.29604	224.7468	289.1192
0.73742	1.01797	2141.175	2180.391	1.03588	0.59848	1.03588	2099.469	2176.776
0.00091	0.63681	2276.396	1432.795	1.07499	0.4602	1.07499	1701.187	1837.979
0.07944	0.80363	25132.11	20272.61	1.18024	0.10336	1.18024	24444.14	28866.34
0.72076	0.85047	129.4769	121.6449	-2.71904	0.20881	0.36778	86.39838	30.63157
0.19822	1.06437	1502.821	1599.187	1.13399	0.04562	1.13399	1396.109	1582.388
0.00027	0.70947	1705.829	1212.572	-1.34297	0.00011	0.74462	1425.779	1059.319
0.31917	1.05282	1327.21	1398.808	-1.23098	0.00189	0.81236	1505.881	1223.801
0.98995	0.99799	407.1001	412.8133	-1.49591	0.00585	0.66849	283.6517	189.7191
0.84558	0.97851	1791.412	1774.29	-1.18505	0.02558	0.84385	1686.361	1421.196
0.73621	1.10335	129.9112	146.0487	1.14495	0.69102	1.14495	125.0761	140.7057
0.66465	0.95001	658.6775	627.9997	1.06372	0.44177	1.06372	626.8495	667.9919
0.30745	1.16492	364.5953	418.2419	1.43089	0.00135	1.43089	331.6854	473.0689
0.83123	1.02696	421.8569	429.0954	1.51337	0.00006	1.51337	369.0753	560.0189
0.89979	0.9862	622.8684	609.7694	1.18023	0.02733	1.18023	641.8915	756.4973
0.47132	1.05725	631.4741	669.2366	1.543	8.52E-06	1.543	659.8622	1016.048
0.73839	0.96989	869.7955	849.8359	-1.11166	0.36473	0.89955	852.4266	762.7601
0.54064	1.07237	300.5319	321.8358	1.17568	0.25003	1.17568	266.6713	312.4363
0.47179	1.56572	35.99847	55.96664	1.73419	0.62291	1.73419	25.21004	42.67054
0.86601	0.98657	1869.161	1824.745	1.02001	0.65943	1.02001	2325.046	2371.29
0.677	0.95543	941.2633	908.1628	-1.32532	0.00017	0.75453	791.1615	597.7973
0.55957	0.89801	2734.698	2484.012	-1.70472	3.11E-15	0.58661	2189.622	1286.807
0.68095	1.04539	692.543	719.1169	1.04985	0.65787	1.04985	642.9379	671.2839
0.31714	1.07036	1757.417	1894.946	1.05614	0.32717	1.05614	1763.448	1866.935
0.07102	0.91385	5862.715	5354.253	1.078	0.2014	1.078	5248.132	5657.58
0.76656	0.97174	754.8973	738.3505	-1.18484	0.02735	0.844	784.8351	661.1383
0.4647	1.08474	643.233	693.6845	1.01998	0.76691	1.01998	1008.173	1028.263

0.56775	0.96094	2490.729	2406.938	-1.0969	0.30703	0.91166	2521.235	2288.014
0.24941	1.09595	1107.882	1222.171	1.04324	0.61506	1.04324	1196.066	1242.214
0.8048	1.01294	5341.236	5402.021	-1.08459	0.12847	0.922	4294.49	3965.118
0.70358	0.93524	843.5929	779.9585	1.75356	4.37E-06	1.75356	804.7712	1422.261
0.11661	1.10116	1501.727	1653.779	1.19965	0.03554	1.19965	1597.301	1946.402
0.58543	1.02643	2877.646	2957.783	-1.07383	0.14959	0.93125	2539.792	2363.129
0.0566	1.12125	1518.024	1708.533	1.10741	0.09928	1.10741	2312.537	2562.553
0.23512	0.82749	3426.366	2801.969	-1.05411	0.73827	0.94867	2817.799	2662.678
0.74263	0.97501	51820.62	50649.2	-1.09603	0.05318	0.91238	56198.41	51272.9
0.22485	0.90455	3226.712	2919.506	-1.25309	0.00175	0.79803	2880.565	2297.775
0.27332	0.91398	8756.037	7994.834	1.16997	0.02694	1.16997	7894.137	9222.292
0.4055	1.09613	511.3622	564.8927	1.10167	0.43778	1.10167	497.4192	543.3119
0.27795	0.87164	10089.71	8784.701	-2.00987	1.78E-43	0.49754	8606.624	4285.17
1.60E-09	0.63861	954.9769	610.8043	1.47441	4.57E-06	1.47441	754.9764	1111.174
0.41003	1.05045	1946.308	2034.229	1.11294	0.01526	1.11294	1908.765	2124.7
0.15507	1.1407	1430.799	1633.5	2.03275	1.82E-19	2.03275	1347.783	2739
0.61575	0.95923	1680.955	1610.531	1.32051	0.0157	1.32051	1634.417	2173.468
3.28E-06	0.73006	3250.48	2364.492	-1.31719	0.038	0.75919	3083.91	2357.469
0.52102	1.07744	2930.022	3156.911	-1.08523	0.12927	0.92147	3512.607	3230.869
0.10145	1.12871	1815.39	2050.021	1.46031	1.40E-15	1.46031	1875.728	2738.325
0.00737	0.77347	1370.733	1054.854	-1.19213	0.00125	0.83884	2211.078	1855.154
0.00008	0.64331	4170.175	2669.544	1.12321	0.04251	1.12321	3202.394	3602.92
0.05959	1.11326	4802.241	5327.983	-1.1417	0.03165	0.87589	4909.749	4311.689
0.05522	0.81554	709.8915	575.4561	-1.33836	0.00435	0.74718	712.8791	530.1485
0.69923	1.10445	251.0001	266.0995	1.08313	0.67916	1.08313	224.1961	244.6397
0.08961	0.8223	2026.622	1678.369	1.11337	0.20163	1.11337	2599.55	2900.062
0.55619	0.89223	548.8651	475.7813	-1.41939	0.0212	0.70453	609.9192	433.6418
0.74199	1.04763	224.441	234.734	1.20086	0.18022	1.20086	248.3686	298.2342
0.28893	1.07216	729.7189	783.7577	1.01557	0.83433	1.01557	784.5419	795.2858
0.0061	0.8839	3609.361	3191.609	-1.09388	0.13913	0.91418	3150.962	2887.329
0.7609	1.04949	339.2304	351.9143	1.1798	0.151	1.1798	339.4645	401.7455
0.0498	0.81081	1106.078	890.8856	1.0483	0.45942	1.0483	996.8228	1046.351
1.47E-06	0.8162	8022.868	6548.921	1.43538	3.20E-14	1.43538	8010.515	11492.92
0.03659	0.80926	4915.114	3985.754	-1.22818	0.03534	0.81421	4709.121	3821.875
0.94705	0.97385	89.51004	87.00372	1.07029	0.6807	1.07029	212.332	227.8514
0.27371	1.07381	1490.266	1592.019	1.07428	0.15043	1.07428	1541.014	1657.021
0.03386	1.1088	2170.223	2405.679	1.02017	0.76909	1.02017	2200.076	2244.587
0.91815	1.02374	809.3041	840.5272	-2.96898	7.88E-11	0.33682	768.5165	259.5333
0.81273	1.0162	3288.555	3347.554	-1.06281	0.19032	0.9409	3438.671	3234.522
0.11639	1.15216	557.4799	639.6094	2.40339	6.65E-24	2.40339	638.4331	1531.281
0.86698	1.08936	66.28424	71.26262	1.0375	0.95941	1.0375	58.30846	58.52478
0.08988	1.10816	1159.33	1288.186	1.1246	0.06118	1.1246	1402.814	1578.799
0.33933	1.0763	969.3325	1038.994	1.05302	0.35138	1.05302	1032.59	1088.062
0.2143	1.08416	5205.444	5628.451	-1.12182	0.01844	0.89141	5004.141	4469.51
0.00002	0.72329	5189.88	3742.036	-1.29546	1.85E-09	0.77192	4133.243	3191.063
0.62405	1.0631	1423.773	1520.011	-1.94937	3.94E-17	0.51299	1329.485	680.7057
0.07356	0.82401	7420.174	6124.514	1.46053	0.00042	1.46053	6684.908	9829.821
0.06131	1.12463	1020.651	1146.749	1.05882	0.32494	1.05882	925.0179	978.8307
0.03437	1.18238	1502.365	1780.741	2.21121	0	2.21121	1322.097	2923.534
0.85868	1.04319	291.3236	298.7185	-1.42631	0.00002	0.70111	763.3723	534.7644
0.03906	1.11289	4610.494	5125.906	-1.41872	4.75E-08	0.70486	4356.626	3071.247
0.35365	0.89776	2064.508	1853.548	-1.03575	0.60578	0.96549	1786.403	1724.429

0.64258	1.03345	3720.733	3851.374	1.36002	2.49E-06	1.36002	3107.485	4233.894
0.76912	0.95029	472.0253	457.191	-1.29057	0.04154	0.77485	380.1823	294.0215
0.84067	1.0138	2478.411	2505.874	-1.01232	0.78821	0.98783	2382.645	2353.596
0.00536	0.66703	454.9128	299.3375	-1.24448	0.07268	0.80355	345.3887	277.7544
0.93	0.99292	19864.38	19788.18	-1.28892	9.99E-07	0.77584	20249.59	15709.84
0.10477	1.09036	2731.52	2959.063	-1.20456	0.00945	0.83018	3324.601	2754.296
0.20589	0.92387	1227.673	1133.143	1.29981	0.00001	1.29981	1060.495	1378.084
0.00248	0.78063	758.7046	593.8929	1.02146	0.81456	1.02146	592.6283	603.5858
0.48791	1.03223	1452.494	1498.938	1.42466	6.34E-09	1.42466	1667.775	2373.886
0.00242	0.78671	2250.621	1779.703	-2.05128	9.03E-23	0.4875	1722.322	838.1239
0.01336	0.8231	3456.453	2853.771	1.07767	0.17012	1.07767	2847.298	3066.624
0.53231	0.9527	2526.387	2403.171	-1.49668	5.11E-06	0.66814	2160.612	1443.147
0.44054	1.07276	1070.283	1141.706	1.20195	0.00838	1.20195	1451.963	1738.732
0.76803	0.96901	322.6	312.0624	1.01388	0.94406	1.01388	246.6373	249.1286
0.21004	0.8746	757.5768	666.4435	-1.29421	0.0003	0.77267	679.2168	525.139
0.57101	0.9576	801.5203	765.5508	-1.04147	0.72716	0.96018	608.5628	583.6336
0.24461	1.49886	79.77026	118.5409	1.11911	0.84359	1.11911	67.19229	73.67978
0.65823	0.94498	347.9733	331.3434	2.93516	4.16E-37	2.93516	290.4061	853.1748
0.00054	0.71191	2601.556	1843.302	-1.18551	0.0083	0.84352	2176.487	1839.656
0.02714	1.15323	1478.706	1706.754	-1.14748	0.20078	0.87147	1941.202	1686.809
0.53574	1.04093	774.1602	804.3377	1.05529	0.45292	1.05529	865.7688	915.2523
0.56628	0.90357	298.3738	264.8018	1.41809	0.00868	1.41809	246.1483	350.0153
0.17091	1.07636	8138.276	8770.289	1.34893	8.73E-13	1.34893	7845.761	10583.58
0.03498	0.73021	594.2269	427.0234	-1.07496	0.62852	0.93027	507.3812	478.3388
0.11614	0.88334	3050.161	2699.033	1.18446	0.00443	1.18446	2735.343	3242.674
0.22357	0.88632	4792.716	4240.834	1.16914	0.12039	1.16914	4830.975	5613.17
0.87317	0.98705	425.628	419.889	1.19015	0.18664	1.19015	375.5795	448.5767
0.72561	0.93638	272.3001	250.5281	1.14594	0.35918	1.14594	267.2611	307.6639
0.33093	1.06897	1511.348	1608.271	-1.16033	0.02487	0.86182	1452.346	1251.464
0.00045	1.18911	1146.162	1362.969	2.0013	1.28E-15	2.0013	995.3463	1991.02
0.89762	1.08634	48.25799	51.456	1.28545	0.41126	1.28545	105.7827	136.5239
0.02989	0.72895	2023.14	1486.211	1.01531	0.89925	1.01531	2305.429	2350.85
0.03487	0.81236	914.9253	739.9962	1.54471	4.53E-12	1.54471	707.3522	1093.669
0.77517	0.96072	419.2781	397.6373	1.39013	0.01106	1.39013	370.5028	517.7612
0.00752	0.75201	600.8766	448.772	1.15551	0.16688	1.15551	499.296	579.4517
0.62502	1.06284	331.1739	351.5693	1.0008	0.99345	1.0008	553.0297	555.5161
0.56711	0.9568	4875.187	4713.784	-1.12975	0.17958	0.88515	4994.141	4385.021
0.32532	0.86279	14319.86	12630.03	1.37263	0.0004	1.37263	13265.96	18282.66
0.00061	1.19435	4473.331	5343.947	-1.71724	7.44E-16	0.58233	4829.374	2817.137
0.93956	0.97113	107.0888	101.7844	1.11133	0.82503	1.11133	75.1407	82.42514
0.93449	1.0438	63.82262	67.85941	1.04289	0.96281	1.04289	46.42981	46.45135
0.07739	0.76265	274.6697	209.9932	1.14031	0.48467	1.14031	239.7723	270.2951
0.51867	1.046	811.6697	851.0809	1.02915	0.62131	1.02915	793.7953	817.256
0.63681	0.90559	403.7821	369.1161	-1.26661	0.15823	0.78951	359.5978	287.8162
0.88926	0.98507	650.8287	645.3886	-1.80939	0.00288	0.55267	523.3543	285.3905
0.18231	0.91405	1587.731	1450.844	2.10052	2.14E-29	2.10052	1324.064	2786.93
0.42243	1.04998	1771.183	1868.493	1.19497	0.01074	1.19497	1761.554	2097.761
0.4409	0.96282	1064.003	1024.466	-1.01019	0.9129	0.98991	1006.54	992.6728
0.29104	0.94698	1900.793	1803.613	-1.00673	0.88521	0.99331	1683.151	1672.458
0.38136	1.08329	383.6524	415.7679	-1.02194	0.84439	0.97853	412.2109	402.2059
0.01266	0.87293	1359.115	1188.11	-1.57685	3.85E-07	0.63418	1227.464	778.3042
0.92138	1.006	3874.408	3891.173	1.09034	0.3262	1.09034	3828.753	4173.858

0.1151	0.84917	6135.938	5210.795	1.03221	0.68446	1.03221	5356.456	5524.208
0.98431	1.00171	2397.474	2406.004	3.24534	0	3.24534	2037.401	6618.692
0.29855	1.06311	1333.003	1418.263	-1.0356	0.49782	0.96562	1584.699	1530.071
0.54442	1.13828	182.7556	209.0302	1.01407	0.94325	1.01407	187.7795	189.7231
0.54113	1.06851	667.8037	719.2819	-1.18469	0.12762	0.8441	765.2467	642.0381
0.29395	1.05945	1413.553	1496.262	1.01101	0.86475	1.01101	1244.399	1253.904
0.93017	1.01153	2950.081	2990.802	-1.58454	1.17E-11	0.6311	3295.139	2083.401
0.27203	0.82181	289.5407	240.8328	-1.21444	0.32964	0.82343	210.8806	173.5265
0.09857	0.84445	8166.996	6921.987	-1.0837	0.323	0.92276	6985.065	6447.369
0.01908	0.8314	2297.407	1910.514	1.76611	1.06E-08	1.76611	1886.206	3327.486
0.0002	0.80692	5468.244	4407.715	2.194	3.13E-17	2.194	4797.048	10591.46
0.93487	0.93839	54.88432	55.76061	1.03794	0.93969	1.03794	82.34418	86.50038
0.5945	0.96739	1245.141	1207.105	-1.11469	0.10285	0.89711	1223.815	1096.038
0.70131	1.1183	135.8438	155.9691	-1.09143	0.78335	0.91623	138.036	125.1798
0.02108	1.11652	2609.304	2910.567	1.08981	0.06411	1.08981	3203.854	3495.284
0.69398	1.03303	1679.997	1726.909	-1.16935	0.01396	0.85517	1699.876	1452.71
1	1	17.64035	22.04972	1	1	1	17.56738	28.75289
0.03513	1.12653	2416.634	2719.669	1.63493	1.52E-17	1.63493	2169.983	3546.479
0.76931	0.94473	229.716	214.5359	1.16066	0.28935	1.16066	247.013	287.2144
0.6431	0.92373	556.2302	503.1827	1.35302	0.00386	1.35302	474.9382	645.3978
0.85365	0.9861	22119.83	21858.15	-1.0938	0.05635	0.91424	20855.48	19058.33
0.83096	1.13422	66.68739	72.77853	1.07205	0.89905	1.07205	64.72436	70.25526
0.00132	0.79912	3796.245	3040.586	1.39749	2.86E-08	1.39749	3266.879	4570.152
0.10648	1.0943	793.0992	867.3584	1.12987	0.06498	1.12987	957.1156	1080.256
0.47762	0.94647	3246.044	3054.427	1.01598	0.78917	1.01598	2997.81	3045.113
0.436	1.05317	1115.417	1176.019	-1.00562	0.92707	0.99441	1045.732	1039.228
0.46976	0.9327	456.9908	427.6881	1.31924	0.0308	1.31924	448.4009	587.7451
0.00029	0.83579	10244.61	8573.621	-1.01472	0.88943	0.98549	9118.314	9008.921
0.26402	0.87112	351.9708	308.0472	1.86321	1.31E-11	1.86321	326.5509	607.5873
0.38477	1.09044	517.1613	567.1951	1.23832	0.03963	1.23832	623.6061	768.9456
0.16123	1.11055	3950.518	4381.964	1.1463	0.00235	1.1463	4386.556	5030.423
0.99995	1.00001	307.9443	318.4099	1.09091	0.49779	1.09091	397.4885	436.389
0.11567	0.85411	8733.666	7464.036	-1.0668	0.42775	0.93738	7748.008	7263.943
0.64278	1.05849	803.163	845.3203	1.56968	5.32E-10	1.56968	704.491	1107.627
0.55968	1.06106	1179.015	1243.584	-1.26049	0.0017	0.79334	1216.667	965.5189
0.99251	1.00168	194.6726	193.7763	1.10293	0.72084	1.10293	159.3523	178.2824
0.00002	0.78188	2934.253	2295.601	-1.34924	0.00004	0.74116	2600.723	1925.213
0.39405	1.05956	680.8206	720.3756	-1.04649	0.57479	0.95558	660.1218	629.5544
0.80038	0.92384	116.1272	108.6498	-1.0308	0.93996	0.97012	99.7086	96.99246
0.84925	0.98107	866.2517	857.0273	-1.19228	0.04855	0.83873	878.5696	734.6957
0.93996	0.99501	2629.915	2616.55	1.05729	0.26197	1.05729	2496.666	2639.619
0.77738	1.10795	104.0773	115.0023	1.1328	0.51657	1.1328	239.274	270.5032
0.00029	0.60128	379.66	226.5234	-1.00284	0.98272	0.99717	321.8596	321.731
0.16198	0.78194	249.0235	196.6644	1.21994	0.17717	1.21994	228.6693	278.4473
0.78626	1.03107	1714.135	1781.092	1.59812	5.38E-10	1.59812	1847.599	2950.509
0.94335	1.01772	157.152	157.8582	1.05099	0.85793	1.05099	128.6907	135.7952
0.99017	1.00078	785.4548	784.7611	-1.09032	0.27392	0.91716	777.4902	711.4197
0.51066	0.93498	10259.48	9627.004	1.11131	0.33371	1.11131	10949.77	12124.83
0.9564	0.95023	43.24896	40.84208	1.76669	0.53807	1.76669	35.62892	63.57682
0.97854	1.00252	603.2262	606.7891	-1.79384	2.05E-18	0.55746	1016.701	566.2106
0.37765	1.13232	193.1646	218.9545	1.01488	0.94276	1.01488	200.5876	201.9776
0.79164	1.01949	793.5131	811.6574	-1.04831	0.5345	0.95392	1818.985	1745.577

0.68286	1.03863	496.7101	514.0441	1.34485	0.0283	1.34485	463.4896	619.4424
0.0179	1.10981	7707.801	8557.677	-1.0762	0.27805	0.9292	8828.121	8147.562
0.70736	1.02775	2841.282	2927.187	-1.01547	0.73283	0.98477	3196.187	3146.823
0.73382	1.02941	1012.973	1047.149	-1.21162	0.02037	0.82534	1124.662	930.4291
0.64824	0.91196	144.3449	131.5729	-1.06472	0.80443	0.93922	130.8463	122.8261
0.96824	1.0147	89.50397	90.75076	-1.07431	0.86249	0.93083	88.62559	82.45569
0.0046	1.20001	1370.354	1642.531	1.04532	0.39646	1.04532	2129.997	2228.448
0.05406	0.82119	4891.798	3987.55	1.30563	0.00009	1.30563	3948.482	5158.755
0.85106	0.97188	697.8583	687.9444	-1.174	0.15372	0.85179	468.2481	397.1624
5.34E-06	0.72978	4198.282	3026.292	-1.12562	0.3365	0.8884	1758.487	1562.237
0.88956	1.06196	83.85622	88.84235	-1.02237	0.95473	0.97812	88.53783	86.1733
0.57283	0.91701	436.5399	405.5085	-1.16079	0.3285	0.86148	322.5898	278.4199
0.96882	0.99619	813.9941	805.1525	1.15916	0.15606	1.15916	796.9061	928.7524
0.75921	1.07788	185.0263	194.6498	4.00943	5.17E-21	4.00943	163.9218	661.6397
0.89536	0.98815	1144.227	1137.884	-1.15582	0.02239	0.86519	919.9781	796.7147
0.89032	0.93563	68.7985	64.63161	-1.02786	0.9633	0.9729	98.00414	88.41621
0.66628	0.95398	15795.02	15060.38	1.15805	0.19638	1.15805	14855.6	17221.77
0.84501	0.95869	139.3006	133.9402	-1.27534	0.44692	0.7841	124.7884	97.93831
0.02654	0.73067	2275.279	1655.826	1.00276	0.98139	1.00276	1961.466	1980.779
0.13625	0.89722	663.1748	594.0375	1.45102	1.37E-08	1.45102	582.6838	846.0748
8.82E-11	0.52234	959.3348	502.891	-1.10113	0.23079	0.90816	835.5205	757.0538
0.0404	1.13693	700.2991	795.1737	1.19383	0.00307	1.19383	708.0234	844.9251
0.30166	1.07007	2226.641	2381.057	1.02918	0.66565	1.02918	2018.377	2080.95
0.00003	0.74816	1096.903	822.2676	-1.09082	0.22903	0.91674	901.1487	824.361
0.02798	1.21056	550.8134	669.2672	1.24997	0.0279	1.24997	864.7103	1076.981
0.00005	1.18613	3623.178	4297.272	-1.3595	0.00095	0.73556	3314.724	2440.41
0.88598	1.00736	959.5587	966.8322	1.04757	0.58223	1.04757	934.2459	975.1201
0.00171	0.79065	9805.021	7780.156	1.23872	0.00002	1.23872	8670.453	10740.78
0.2198	0.69268	185.7831	124.2947	-1.08876	0.80344	0.91848	146.1382	131.0328
0.47638	0.95991	7106.966	6845.395	-1.05504	0.45256	0.94783	7378.481	6969.926
0.70749	1.03619	483.5151	503.1732	-1.04044	0.69946	0.96114	542.4768	519.4887
0.04941	1.13423	798.7033	905.9357	-1.08734	0.19593	0.91967	1445.515	1332.466
0.08631	1.13034	1240.697	1410.027	-1.01575	0.79081	0.98449	1319.322	1297.608
0.16101	1.07	8178.956	8743.562	-1.15863	0.00327	0.86309	9651.467	8323.225
0.49851	1.04849	924.1615	970.1594	1.33956	0.00001	1.33956	745.7047	998.4101
0.00863	0.80983	1849.393	1495.847	1.18182	0.05686	1.18182	1457.982	1724.683
0.09671	0.88944	1263.362	1121.276	1.0669	0.27437	1.0669	1181.801	1261.5
0.05461	1.1097	10499.54	11658.28	-1.30059	0.00079	0.76888	13281.2	10139.88
0.79482	0.96677	8777.84	8556.309	1.03095	0.77625	1.03095	7617.434	7840.406
0.52575	1.03714	1160.843	1206.499	-1.04513	0.66755	0.95682	1139.372	1099.081
0.45342	0.94028	833.7261	781.0221	1.20673	0.01934	1.20673	1086.29	1310.411
0.00002	0.73204	1548.691	1129.565	-1.21625	0.00075	0.8222	1276.339	1050.407
0.60476	0.96784	822.5649	794.8623	-1.07005	0.37497	0.93453	820.2788	764.8266
0.68364	1.0315	1293.479	1336.965	-1.02285	0.65337	0.97766	1100.198	1075.66
0.6877	0.97479	721.9551	702.9469	-1.074	0.36811	0.9311	719.3906	671.0634
8.93E-08	0.66377	3462.717	2293.555	-1.26052	0.00011	0.79332	2597.106	2058.616
0.45908	0.92908	576.5267	538.6361	1.44441	0.00041	1.44441	528.9025	760.8821
0.93367	0.99424	2542.678	2537.71	1.16945	0.00802	1.16945	2640.506	3090.755
0.78937	0.95825	434.3037	430.9851	-1.09585	0.50917	0.91253	548.4782	499.9392
0.60501	0.9632	1618.071	1557.435	1.01951	0.70125	1.01951	1486.245	1515.402
0.33166	0.903	641.4823	583.1142	-1.35861	0.00242	0.73605	484.7972	357.4861
0.06827	1.09407	2236.715	2450.91	-1.12503	0.06002	0.88886	2426.367	2155.854

0.61423	1.05026	1703.577	1819.961	1.08773	0.42272	1.08773	1774.838	1947.865
0.2566	0.94446	28672.74	27054.74	1.29937	0.00002	1.29937	30816.77	40133.73
0.95888	1.05658	34.42667	37.7319	1	1	1	20.7781	27.95766
0.90527	1.01397	748.5719	765.4088	-1.00362	0.96515	0.9964	640.5549	639.6683
0.13597	1.14635	480.4423	549.3373	-1.06842	0.5445	0.93596	534.0717	497.161
0.58286	1.03667	2655.519	2754.228	1.65022	3.14E-06	1.65022	2306.744	3819.967
0.03256	0.78356	678.5229	535.5596	-1.21361	0.15092	0.82399	520.4579	425.0199
0.11397	1.11191	985.1869	1097.059	-1.0553	0.55001	0.9476	799.5002	760.312
0.85113	1.32008	18.92905	25.87552	1.12148	0.78245	1.12148	77.67413	87.60307
0.00099	0.72952	3084.808	2247.377	-1.20583	0.077	0.82931	2833.861	2340.051
0.52041	0.66778	65.90396	44.58534	2.52342	0.01443	2.52342	57.16759	145.2057
0.84783	0.97533	356.9916	350.3796	-1.26014	0.15722	0.79356	340.7077	273.0642
0.00233	0.64481	1269.24	802.6577	-1.07691	0.57724	0.92858	859.96	804.8439
0.00869	0.70185	3123.676	2184.415	1.14459	0.24007	1.14459	3028.886	3450.151
0.35432	1.05593	1557.437	1643.707	-1.26481	0.00241	0.79063	1554.148	1223.093
0.89083	1.02496	1153.097	1179.585	-1.94485	1.75E-34	0.51418	1658.893	852.9584
0.70814	1.04465	1486.5	1562.083	-1.6078	4.12E-08	0.62197	2148.165	1359.729
0.83758	1.01256	2482.069	2524.757	1.04515	0.53852	1.04515	2467.632	2582.469
0.00089	0.62654	3675.109	2267.405	3.83503	1.95E-25	3.83503	2663.079	10401.56
0.52249	1.0607	474.6259	501.7261	-1.09494	0.28704	0.91329	469.9854	429.4715
0.59	0.95669	2004.534	1923.179	1.01315	0.85009	1.01315	1762.327	1787.16
0.51914	1.05807	485.0433	512.4703	1.28229	0.00661	1.28229	382.6202	490.0073
0.63051	1.0533	310.3165	326.0283	1.16658	0.24059	1.16658	289.2258	338.2015
0.23767	0.91892	2051.586	1877.99	-1.02701	0.69134	0.9737	1846.586	1801.149
0.03472	0.8828	2607.836	2296.777	-1.14359	0.10241	0.87444	2643.766	2316.295
1	1	17.85177	22.93789	1	1	1	17.81384	31.54718
0.32204	1.05728	1324.969	1402.906	-1.15677	0.02228	0.86448	1564.029	1348.701
0.57583	0.94303	735.4524	688.9632	1.18969	0.00659	1.18969	598.5291	712.2519
0.70717	1.1058	114.7206	126.9249	1.05303	0.88129	1.05303	88.31255	93.14156
0.00014	0.74313	13590.53	10086.78	1.26766	3.36E-07	1.26766	13550.38	17161.2
0.14548	1.14329	520.827	592.7986	1.15718	0.20006	1.15718	484.891	563.3794
0.76104	0.9812	8553.82	8371.905	1.15258	0.00043	1.15258	8076.611	9308.953
0.93408	1.0067	559.4394	564.1518	1.17045	0.13917	1.17045	706.6182	824.0907
0.50397	1.04113	5874.212	6109.597	-1.0255	0.74457	0.97514	8385.291	8182.445
0.5992	1.02578	5689.039	5846.02	-1.03335	0.46862	0.96773	6210.795	6014.084
0.54179	1.06519	594.9865	629.6965	1.281	0.01254	1.281	620.9453	799.0499
0.44791	1.07342	3264.719	3531.37	-2.44754	0	0.40857	3216.229	1314.098
0.00133	1.44629	1518.449	2189.011	-2.92126	2.59E-13	0.34232	2693.433	880.8715
0.21302	1.10667	508.6794	564.2406	-1.05245	0.62044	0.95017	508.0797	481.0566
0.03811	0.89474	819.7715	733.4136	-1.30971	0.00088	0.76353	650.8547	496.4821
0.61733	1.14805	134.0572	151.054	1.3716	0.17052	1.3716	133.4696	183.5099
0.20217	1.11493	985.4337	1102.53	1.42861	0.00033	1.42861	1005.324	1439.028
0.86029	0.98366	810.0205	794.2102	1.11092	0.19927	1.11092	747.2974	832.0049
0.63151	0.97381	1331.591	1296.587	1.25944	0.00154	1.25944	2125.093	2675.972
0.54828	0.88412	158.93	140.1119	-1.04853	0.87305	0.95372	136.495	129.8303
0.24518	1.10537	2747.764	3016.122	-2.33971	8.94E-43	0.4274	3548.884	1513.422
0.98684	0.99818	378.7607	377.5662	-1.10732	0.3315	0.90308	370.3265	334.5275
0.80239	0.98215	926.1094	913.3823	-1.12784	0.18463	0.88665	836.4881	738.7999
5.80E-06	0.62398	2445.831	1518.221	-1.03789	0.72191	0.9635	1980.347	1918.523
0.16509	0.88958	2140.155	1902.911	1.28689	3.11E-08	1.28689	1727.275	2222.779
0.94696	1.00786	1179.729	1203.324	-1.77149	6.58E-14	0.5645	1039.351	585.3823
0.13051	1.08547	1321.015	1436.854	1.0155	0.75032	1.0155	1757.112	1784.338

0.99455	1.00036	4170.927	4163.522	-1.07458	0.18996	0.9306	3835.924	3565.73
2.12E-11	0.58959	6079.382	3591.445	-1.20171	0.00307	0.83215	4453.994	3699.162
0.01173	0.76754	3590.047	2758.451	1.28293	0.00017	1.28293	2910.298	3745.775
0.46962	1.12518	265.4702	297.7459	1.37094	0.03421	1.37094	240.338	328.9934
0.033	0.78389	3123.327	2434.599	1.28878	0.00066	1.28878	2531.53	3269.844
0.12923	0.89436	3003.139	2694.013	1.03754	0.40192	1.03754	2811.506	2916.756
0.00036	0.73003	2977.125	2168.27	1.15564	0.0058	1.15564	2384.007	2758.834
0.45178	0.93049	9791.011	9205.572	-1.00261	0.97205	0.9974	9111.534	9097.855
0.83219	1.1219	74.70888	89.06467	-1.22369	0.70167	0.8172	88.09424	72.34447
0.36151	1.06882	1132.571	1204.246	-1.04117	0.50966	0.96046	1177.347	1131.005
0.19139	0.90698	739.6134	669.2979	1.71236	5.51E-11	1.71236	608.514	1039.659
0.65141	1.08638	251.3372	268.8868	1.01758	0.93517	1.01758	246.7896	248.9167
0.10538	0.82797	421.3794	350.6747	-1.22404	0.03647	0.81697	608.3762	495.4613
0.00984	0.85986	6851.968	5885.86	-1.3194	0.00027	0.75792	6266.012	4757.353
0.10175	1.11917	1930.234	2152.054	1.25342	0.0006	1.25342	2207.392	2772.902
0.92301	1.00935	1279.021	1288.204	1.65244	1.29E-15	1.65244	1152.704	1906.374
0.03627	1.09305	3945.729	4313.735	1.24783	1.43E-07	1.24783	4250.853	5304.026
0.61818	0.96703	604.2091	583.6991	-1.02782	0.6947	0.97294	585.8495	570.0319
0.7646	1.03084	847.0696	869.6139	1.42786	0.00003	1.42786	713.7094	1017.109
0.97919	1.00696	117.2267	117.3174	-1.02072	0.96066	0.9797	106.7189	102.206
0.04998	1.14044	1254.939	1430.526	1.46036	2.42E-16	1.46036	1235.094	1803.656
0.12269	0.90827	1558.985	1419.389	-1.06105	0.51556	0.94246	1458.779	1371.5
0.0998	1.07371	4029.462	4327.387	-1.14405	0.03733	0.87409	4979.665	4359.887
0.29983	0.90374	558.7462	502.3764	1.26292	0.00769	1.26292	540.0412	680.3527
0.0004	0.81	3773.299	3049.435	-2.24585	1.35E-35	0.44527	3318.709	1476.189
0.50993	0.93747	401.0097	374.8981	-1.46249	0.00142	0.68377	365.5092	249.5739
0.02225	0.66078	1401.782	901.7057	1.11	0.46264	1.11	983.2443	1103.606
0.53615	0.9182	280.2777	256.9676	-1.12105	0.53818	0.89202	299.8581	268.9722
0.00001	0.72647	3935.876	2861.005	1.36274	9.54E-12	1.36274	3139.498	4278.219
0.06496	0.83547	2073.757	1723.722	-2.59125	0	0.38591	1899.01	732.6852
0.25957	1.08719	1158.965	1263.736	1.05185	0.41951	1.05185	1863.907	1964.746
0.00249	0.87159	9411.917	8198.948	1.14532	0.00393	1.14532	9275.482	10621.57
0.12636	1.08048	2225.835	2406.636	1.22505	0.03852	1.22505	2245.844	2746.106
0.75101	1.10754	117.4959	127.4754	1.04166	0.92175	1.04166	132.1343	132.0259
0.47574	1.13168	259.3259	296.706	1.00788	0.89907	1.00788	641.8998	646.9157
0.79636	0.77035	42.26553	31.99343	1.06556	0.9058	1.06556	74.14331	78.5401
0.75041	1.02279	758.2386	773.7245	-1.05414	0.36776	0.94864	822.407	779.9442
0.60873	1.07161	855.1926	918.5008	-1.31753	0.00001	0.759	1254.296	952.4351
0.79339	1.03125	285.0092	294.0843	1.00032	0.99818	1.00032	279.1081	279.0227
0.95036	0.98728	245.9762	247.2743	1.03266	0.83043	1.03266	223.1975	230.3387
0.37452	1.07502	912.4858	976.0817	-1.20709	0.0009	0.82844	986.7484	817.8486
8.11E-06	0.77096	6830.654	5267.796	1.29344	0.00502	1.29344	5694.373	7393.645
0.2568	0.83167	580.8975	473.4799	1.4318	1.62E-06	1.4318	483.9373	692.3132
0.49671	1.04019	923.6306	959.7853	-1.00109	0.989	0.99891	933.3702	935.2509
0.70824	0.97005	990.3428	957.8123	-1.0755	0.29868	0.9298	953.7124	888.4746
0.46772	1.05066	1234.614	1291.842	1.01422	0.76683	1.01422	1334.752	1353.533
0.41636	1.13652	447.6434	516.4247	-2.06569	1.69E-06	0.4841	364.0564	176.123
0.00615	0.65025	3580.221	2282.16	1.14043	0.35366	1.14043	2633.693	3037.52
0.5053	1.04412	544.3029	568.4457	-1.24665	0.03016	0.80215	611.8471	492.5485
0.21102	1.08542	6843.066	7406.485	-1.01217	0.77555	0.98798	7642.014	7547.956
0.42439	1.0977	346.9841	380.105	1.04541	0.80002	1.04541	375.9518	401.4988
0.8808	1.07146	92.48607	94.3309	1.23431	0.57179	1.23431	107.3541	131.9599

0.39637	0.88977	979.7392	865.3558	1.52425	2.09E-07	1.52425	785.3952	1201.128
0.04852	1.08894	2414.081	2628.473	1.32341	0.00022	1.32341	2579.55	3421.808
0.07489	0.70791	4002.744	2775.293	1.52817	0.00006	1.52817	3301.604	5065.232
0.00282	0.73197	11621.02	8573.074	1.20888	0.01493	1.20888	10817.64	13117.59
0.75936	0.94528	235.3922	225.5888	1.00505	0.98017	1.00505	229.1973	229.8058
0.02139	1.10277	4166.508	4598.003	1.04283	0.45041	1.04283	5584.649	5834.12
0.00027	0.75891	1667.932	1261.929	1.22231	0.00241	1.22231	1330.755	1630.79
0.00876	0.80278	3003.729	2416.434	1.02824	0.67975	1.02824	2612.524	2675.723
0.12814	1.0796	1342.115	1450.715	-1.00476	0.95891	0.99526	1430.729	1412.291
0.01034	0.77757	621.2526	480.5732	1.10433	0.17591	1.10433	522.7014	576.8991
0.51718	1.05563	1306.35	1374.759	-1.21025	0.00098	0.82628	1300.567	1075.995
0.58513	0.90726	305.3561	270.6234	-1.04722	0.81564	0.95491	267.763	253.7116
4.17E-09	0.69096	1071.45	741.0169	-1.67121	5.48E-09	0.59837	1041.579	624.3477
0.8104	0.98716	1092.741	1078.674	-2.48536	6.44E-20	0.40236	949.9727	380.7049
0.95606	0.99396	4987.993	4875.807	-1.43716	0.00015	0.69582	5590.247	3866.181
0.27511	1.05896	1540.427	1634.193	1.08085	0.2736	1.08085	1548.602	1675.818
0.95524	1.01017	205.2025	207.4061	1.06929	0.78565	1.06929	186.6372	199.4752
0.604	1.05964	368.5432	390.6674	1.07881	0.12554	1.07881	1152.027	1243.064
0.00004	0.71249	9937.738	7070.581	-1.12716	0.13578	0.88719	9064.522	8044.121
0.25086	0.8671	1693.092	1468.077	-3.3566	3.50E-13	0.29792	1635.446	487.2335
0.3019	0.93787	15386.61	14443.05	1.26578	0.00005	1.26578	14458.05	18301.13
0.72836	1.02311	6283.425	6411.927	-1.0946	0.04872	0.91357	6573.327	6010.752
0.00121	0.76289	8375.188	6386.844	-1.15983	0.00029	0.8622	7349.684	6336.887
0.09297	0.92945	2179.219	2025.39	1.41547	0.00008	1.41547	1921.164	2724.299
0.23317	0.92446	22199.44	20529.49	1.02686	0.64746	1.02686	21816.52	22403.05
0.86101	0.97701	231.6179	226.2198	-1.06461	0.75239	0.93931	204.8524	192.0367
0.26412	1.0787	992.1282	1067.814	-1.01643	0.77945	0.98383	1071.528	1053.13
0.88695	0.98438	1211.357	1180.89	1.82055	5.39E-16	1.82055	1019.378	1860.017
0.23353	0.92786	1427.771	1324.926	2.21782	6.76E-40	2.21782	1283.452	2845.104
0.87866	1.01599	820.1832	839.0938	-1.38992	0.00002	0.71947	722.2695	520.3441
0.22865	0.92972	1042.517	970.834	1.1093	0.04662	1.1093	943.551	1046.732
0.03898	0.82488	1745.298	1442.224	1.68216	1.61E-10	1.68216	1689.414	2840.619
0.00015	1.29073	613.1576	791.94	-1.32649	0.02465	0.75387	749.9047	560.8679
0.62149	0.89551	224.3157	196.1425	1.61489	0.01901	1.61489	189.2168	310.1348
0.00011	0.70413	739.118	518.2072	1.01449	0.87851	1.01449	541.5114	550.4287
0.84978	1.01568	3240.562	3310.909	-1.14481	0.12968	0.87351	3320.122	2894.011
0.65609	0.95868	696.4759	671.6122	-1.14298	0.15887	0.87491	676.2034	589.4606
0.19255	0.89477	7147.356	6410.973	1.08937	0.18124	1.08937	6612.381	7204.658
0.00271	0.7988	6002.409	4783.021	-1.00176	0.98509	0.99825	5068.165	5051.601
0.05378	0.9021	1166.216	1052.641	-1.03842	0.52449	0.963	1036.468	999.1895
0.882	1.01301	534.9642	540.4164	1.30032	0.03997	1.30032	425.9338	550.3511
0.77772	0.98457	4398.173	4330.98	1.12761	0.01789	1.12761	4234.092	4769.395
0.14276	0.68985	5289.432	3598.538	-3.02022	2.83E-27	0.3311	1784.074	587.4087
0.35261	0.88071	326.1974	289.5147	-1.18154	0.20679	0.84635	297.3827	252.0569
0.00794	1.22337	9497	11542.58	-2.32948	5.72E-13	0.42928	14706.2	6176.277
0.97308	0.99549	277.5358	274.8688	-1.04828	0.74445	0.95395	281.9996	269.9315
0.41473	1.05162	4106.767	4329.96	1.25082	9.43E-06	1.25082	3743.698	4679.225
0.27702	1.18814	269.6635	316.5414	1.17542	0.03903	1.17542	527.5544	619.8682
0.00097	0.82012	6259.814	5102.259	-3.82434	8.77E-41	0.26148	4361.303	1136.46
0.88589	1.01204	3000.628	3043.097	1.04965	0.40804	1.04965	2772.527	2907.873
0.5212	1.0341	8546.832	8873.682	1.00736	0.88813	1.00736	8260.039	8307.486
0.92665	1.00718	806.298	808.9963	-1.03723	0.65548	0.9641	833.2904	805.6304

0.93223	0.99529	1112.882	1107.428	-1.14174	0.01386	0.87586	1484.293	1300.343
0.51443	0.94692	584.3991	551.4724	-1.17335	0.08649	0.85226	625.8745	531.835
0.1444	1.09666	1082.903	1186.259	1.01998	0.75684	1.01998	1495.755	1521.714
0.15238	1.45769	201.2163	282.4354	2.22713	0.00003	2.22713	185.8424	417.9598
0.26532	0.89566	1238.386	1103.677	-1.0356	0.49963	0.96563	1149.104	1109.295
0.88483	0.97237	211.1247	205.4103	-1.02382	0.8971	0.97674	200.8011	196.1478
0.00064	0.83771	1037.301	868.9517	1.1509	0.00432	1.1509	1048.351	1206.701
0.00127	0.75975	521.7577	396.4254	-1.60757	0.00072	0.62206	451.9964	280.4674
0.19517	0.87147	10448	9147.773	1.36699	0.00006	1.36699	10377.43	14129.57
0.83271	0.96354	158.0393	152.2315	1.19886	0.34576	1.19886	154.2481	184.7813
0.93867	0.98676	402.7088	390.9186	1.76839	6.62E-07	1.76839	339.2021	602.843
0.00139	1.19249	4279.749	5104.751	-1.19228	0.03515	0.83873	4809.126	4013.253
0.00037	0.68301	12549.43	8567.309	1.0615	0.50799	1.0615	10850.03	11555.83
0.97037	0.99796	3209.29	3198.561	-1.0741	0.19785	0.93102	2975.422	2769.369
0.7128	0.95658	645.9817	623.2661	-1.09136	0.37187	0.91629	502.63	459.3441
0.65826	1.03233	686.1799	706.9647	-1.1796	0.05725	0.84775	596.8095	506.6182
0.96865	0.99343	170.5612	169.4484	1.01715	0.94871	1.01715	160.1447	161.8994
0.21932	0.86583	421.9739	362.95	-1.02718	0.79423	0.97354	401.8897	391.3727
0.07809	0.91924	12766.44	11730.53	-1.17018	0.01002	0.85457	10753.55	9187.324
0.50787	0.91484	447.9821	404.4126	-1.02115	0.81673	0.97929	540.6089	530.6895
0.04781	0.76787	1140.443	870.9331	1.02722	0.69491	1.02722	779.2639	799.4153
0.33253	0.9117	721.0217	653.3011	1.27242	0.00144	1.27242	672.1822	857.129
0.2815	0.81838	2324.743	1906.506	-1.84288	1.41E-18	0.54263	1385.658	751.9106
0.44172	0.94212	1270.844	1192.48	1.20575	0.0003	1.20575	1144.28	1380.38
0.21678	0.945	2344.467	2213.835	1.09929	0.13121	1.09929	2289.438	2518.149
0.19914	1.08825	3117.046	3392.905	-1.06059	0.43858	0.94287	2884.19	2722.219
0.47974	0.79478	159.041	121.6533	1.2863	0.18257	1.2863	171.7809	220.327
0.00084	0.8475	3100.319	2623.366	-1.0532	0.24255	0.94949	2792.004	2651.173
0.61028	1.07077	536.0378	567.2772	1.33598	0.01307	1.33598	482.1943	648.6472
0.09169	0.86548	481.1866	415.581	-1.06123	0.57158	0.94231	424.374	400.5877
0.91387	1.00864	7666.298	7712.131	-1.04639	0.3438	0.95567	7417.459	7096.95
0.57047	0.84173	128.6382	108.815	-1.43069	0.30036	0.69897	131.7851	92.88193
0.9861	1.00208	334.9784	334.5242	-1.01378	0.91306	0.98641	355.9362	351.8439
0.23784	1.16232	945.8008	1097.978	1.52629	8.61E-11	1.52629	769.0996	1173.015
0.19738	0.90333	1871.563	1688.209	2.09014	0	2.09014	2259.004	4721.298
0.0016	0.75243	918.0114	688.1492	-1.01583	0.79281	0.98441	793.0987	780.9179
0.5042	1.03508	1083.58	1120.76	-1.02864	0.65073	0.97216	1134.992	1102.687
4.52E-07	0.68831	1085.623	746.7373	-1.20213	0.13824	0.83186	861.8055	710.7921
0.80272	0.97188	765.4945	750.283	-1.06637	0.46169	0.93776	704.0732	658.4128
0.29449	0.88104	3494.382	3069.453	-1.56101	2.13E-12	0.64061	2546.406	1632.924
0.52256	1.14317	149.0766	171.5634	-1.05579	0.84445	0.94716	140.3482	132.0016
0.52076	1.03711	1573.403	1626.929	-1.09157	0.12425	0.91611	1478.153	1356.572
0.08069	0.81796	791.4684	642.377	1.28536	0.00017	1.28536	804.0338	1034.228
0.73827	1.04323	633.4797	654.5761	2.00439	2.82E-27	2.00439	554.9387	1111.757
0.00002	0.83508	13490.72	11264.78	2.876	0	2.876	13516.79	38914.71
0.62826	0.96042	6693.122	6445.256	1.40485	1.32E-07	1.40485	6219.772	8731.847
0.92907	0.97764	307.3369	284.6392	-2.46474	2.84E-07	0.40572	348.617	142.0472
0.17574	1.06361	1379.336	1466.787	1.07084	0.29238	1.07084	1316.876	1409.521
0.00874	0.79142	420.3257	333.0892	-1.10465	0.45809	0.90527	348.1719	314.9994
0.27494	1.08294	3494.835	3786.312	1.05682	0.37392	1.05682	3824.167	4026.945
0.97246	1.00224	7738.601	7800.169	1.07853	0.35797	1.07853	7143.472	7653.478
0.06208	1.09689	14127.88	15496.48	-1.48908	7.45E-14	0.67155	15020.9	10103.99

0.45424	1.0587	556.4116	590.4831	-1.08651	0.31497	0.92038	571.3258	526.6079
0.11274	0.76243	516.8347	384.4515	1.50574	0.00257	1.50574	421.1285	639.1359
0.86613	0.97951	593.3541	586.8855	-1.12827	0.23101	0.88631	534.5704	473.2764
0.57901	0.94407	912.9096	866.6659	-1.20895	0.02122	0.82716	897.1625	739.8677
0.0289	0.89322	1781.665	1591.112	3.10565	0	3.10565	1779.769	5527.651
0.24877	1.14954	1790.184	2057.887	-1.07676	0.27456	0.92871	3218.211	2935.133
0.00099	1.17028	3324.492	3889.899	1.4814	2.14E-08	1.4814	3655.675	5425.988
0.00398	0.62669	525.41	323.3714	-1.24723	0.06141	0.80178	527.4421	424.9512
0.0003	0.56167	455.5136	251.7522	2.4976	5.25E-21	2.4976	310.0417	776.3627
0.13329	1.10839	1072.068	1188.674	1.01171	0.83212	1.01171	2366.316	2394.931
0.86286	1.01764	352.9087	358.6426	-1.12243	0.25289	0.89092	402.8533	358.4966
0.70091	0.94491	1397.614	1332.841	-1.34319	0.00069	0.74449	1273.475	945.7188
0.00193	0.71943	1152.348	824.5547	1.68442	6.99E-17	1.68442	897.8363	1514.324
0.48805	0.87204	194.3308	170.4115	-1.18071	0.46992	0.84695	156.1443	132.1587
8.55E-08	0.66436	2969.03	1964.032	1.12254	0.05704	1.12254	2278.771	2556.75
0.00005	0.746	3037.408	2268.217	-1.0394	0.4951	0.96209	2663.708	2561.32
0.36202	1.09384	1418.682	1553.798	-1.46082	2.85E-11	0.68455	1632.07	1116.141
0.17456	1.07789	1036.984	1116.335	-1.09035	0.14937	0.91713	1189.026	1088.96
0.03568	1.19013	1295.706	1536.679	1.24068	0.00017	1.24068	1343.541	1668.941
0.8677	1.01805	1534.151	1561.234	-2.73599	2.31E-09	0.3655	1506.706	545.1809
0.72782	0.9528	898.6287	848.1146	1.47367	0.00333	1.47367	833.5175	1239.523
0.13877	0.86022	2674.345	2313.998	1.03535	0.50432	1.03535	2202.667	2281.499
0.1408	1.08219	2373.75	2583.216	1.09446	0.07349	1.09446	2655.697	2902.379
0.84408	0.95976	8381.645	7751.699	-3.09416	4.62E-38	0.32319	6064.2	1952.994
0.22849	0.85486	8694.409	7337.066	1.34814	0.00818	1.34814	7239.847	9888.303
0.67401	1.03117	1000.339	1027.168	1.18277	0.03529	1.18277	880.5209	1044.533
0.07687	0.87038	4838.716	4218.27	1.20923	0.00008	1.20923	4526.89	5473.983
0.00161	0.83947	2684.956	2255.327	-1.03123	0.48809	0.96971	3173.785	3076.64
0.56382	1.07815	511.3347	545.5219	1.32727	0.00181	1.32727	513.8193	684.011
0.0119	0.58496	315.087	179.9825	-1.55373	0.02341	0.64361	223.9528	144.5538
4.13E-09	0.6805	1464.405	996.8333	-1.04168	0.41604	0.95999	1581.007	1517.613
0.14816	0.89621	2653.48	2361.29	1.38842	9.80E-08	1.38842	3028.728	4219.755
0.32475	1.04347	2985.832	3117.234	-1.03238	0.54314	0.96863	3037.175	2934.101
0.01078	0.78962	1815.998	1436.331	1.43916	8.40E-11	1.43916	1443.215	2078.657
0.24289	0.77688	1063.929	817.3621	-2.28232	6.62E-08	0.43815	1234.793	534.8226
0.24012	0.73002	205.9966	145.9265	1.35674	0.35959	1.35674	122.8498	164.554
0.00528	0.77915	3549.789	2764.774	1.59033	2.06E-09	1.59033	2862.485	4564.096
0.70815	1.01862	1348.346	1373.1	-1.10486	0.16169	0.90509	1443.759	1310.399
0.00006	0.48748	1418.388	673.0937	-1.44205	0.00237	0.69346	1015.965	706.5173
0.81444	0.97559	383.9053	375.5505	-1.06177	0.64074	0.94182	332.5236	313.3666
0.79795	0.98895	1893.931	1873.283	-1.09091	0.04735	0.91667	1979.516	1814.57
0.31712	1.10264	1281.85	1422.691	1.4309	0.00339	1.4309	1070.391	1528.96
0.33735	1.0797	835.6642	906.5659	-1.09973	0.15367	0.90931	1673.033	1527.309
0.71814	1.10049	152.29	171.3286	-1.10963	0.73759	0.9012	166.42	147.225
0.01497	1.14351	2915.754	3327.487	1.02867	0.50196	1.02867	3756.058	3863.456
0.64087	0.95366	985.5971	936.356	-1.17899	0.06772	0.84819	1383.628	1169.144
0.6516	0.92789	1080.063	1012.055	-2.40847	2.50E-21	0.4152	811.7741	337.6649
0.94783	0.9904	228.1173	226.0503	1.27626	0.18938	1.27626	198.5394	251.6499
0.35108	0.90083	586.7343	531.211	-1.11047	0.31174	0.90052	551.3641	495.491
0.06745	0.87499	2681.291	2351.006	1.19138	0.00016	1.19138	2340.657	2789.168
0.68404	0.95883	1711.301	1647.81	1.70835	5.93E-10	1.70835	1950.161	3329.66
1.92E-10	2.27471	15152.39	35247.7	2.58522	6.68E-23	2.58522	14745.84	38376.54

0.78213	1.02062	1413.816	1459.276	-1.0568	0.45556	0.94625	1623.092	1530.508
0.00001	0.6432	2175.415	1397.841	1.02278	0.70189	1.02278	1472.956	1504.421
0.9977	1.00031	430.6451	433.1304	-1.64803	0.00019	0.60678	456.6935	276.4358
0.74805	0.98207	887.6561	872.5027	1.1156	0.12808	1.1156	959.6619	1068.03
0.81889	0.95769	155.3905	148.7887	1.0634	0.75999	1.0634	175.7958	186.4048
0.26543	1.05623	2805.809	2966.269	-1.0903	0.14614	0.91718	3037.836	2787.293
0.13176	0.85299	484.8311	415.8953	1.16201	0.22683	1.16201	446.7656	515.7174
0.5307	1.20657	111.7779	136.9156	1.04735	0.8127	1.04735	177.7491	186.4231
0.50686	0.92789	484.1711	445.8411	-2.27546	3.01E-08	0.43947	430.0147	189.928
0.176	1.11863	577.0484	647.9219	-1.03385	0.66816	0.96726	576.8546	558.6599
0.01892	0.78242	1849.959	1440.393	1.14443	0.1564	1.14443	1577.313	1819.644
0.1587	0.90045	11364.05	10238.67	1.14338	0.0528	1.14338	11176.9	12786.91
0.43158	1.07781	1252.95	1350.208	-1.47173	0.00107	0.67947	1497.65	1002.027
0.61673	0.87427	283.359	236.2028	2.41678	4.72E-16	2.41678	194.9868	471.3522
0.08827	1.10344	8955.479	9904.068	-1.09175	0.2604	0.91596	10748.79	9855.631
0.69838	1.02425	823.4662	842.0491	1.06629	0.28317	1.06629	834.5939	890.4669
0.00009	0.7433	6956.944	5166.333	-1.0393	0.53394	0.96218	6232.188	5988.062
2.19E-19	3.2173	1685.727	5490.492	10.73992	4.02E-27	10.73992	1235.249	14213.39
0.71325	0.81931	80.7117	69.18869	-1.10974	0.87428	0.90111	76.63457	69.8764
0.57113	0.92414	268.3723	248.9276	1.13105	0.46192	1.13105	217.8148	247.2748
0.12592	0.90853	1318.266	1200.091	1.06705	0.35184	1.06705	1269.934	1358.37
0.95105	1.01215	140.0521	141.7547	-1.00951	0.97384	0.99058	130.1665	128.8724
0.92966	1.05467	49.84813	53.25043	1.33973	0.80539	1.33973	28.23357	36.74535
0.01935	0.62778	1247.759	762.2761	-1.23164	0.15215	0.81193	871.3716	712.2318
0.06105	1.3471	267.2169	358.42	1.01987	0.79565	1.01987	511.813	522.2971
0.6944	0.94447	800.9346	766.9255	-1.08221	0.41101	0.92403	533.6979	494.3397
0.37707	0.8731	677.1486	598.9003	1.11308	0.32502	1.11308	590.381	660.9943
7.01E-45	1.92351	13904.48	26723.87	1.18366	0.00135	1.18366	18883.43	22282.68
0.92296	1.01165	1358.601	1377.21	2.53894	1.08E-24	2.53894	1108.68	2823.713
0.13405	1.07962	3029.685	3266.475	1.07556	0.09986	1.07556	3204.671	3446.071
0.10685	0.80388	350.6523	280.0062	19.82123	0	19.82123	497.7617	9862.027
0.72828	1.02564	1029.168	1052.431	-1.03814	0.6261	0.96327	990.7416	951.5614
0.00516	0.81854	966.1629	789.0306	-1.13156	0.04489	0.88374	863.6948	762.7092
0.03786	1.09843	5328.005	5869.747	1.03491	0.46677	1.03491	7593.261	7858.573
0.16069	1.08076	5441.293	5875.116	1.05199	0.3051	1.05199	5949.531	6258.507
0.66681	1.03035	3197.041	3290.229	-1.05512	0.24507	0.94776	2874.083	2724.277
0.08321	0.76793	372.3564	281.8225	-1.09549	0.38898	0.91283	375.0955	341.9475
0.02781	0.73428	468.4693	348.5198	-1.32003	0.00792	0.75756	546.0696	412.1009
0.97408	1.04193	32.54722	35.80723	-1.02362	0.97834	0.97692	50.35688	56.45584
0.0109	0.86635	1032.123	893.2581	-1.12888	0.3865	0.88584	700.6574	628.1987
0.91531	0.95748	95.65679	92.11105	-1.59495	0.30756	0.62698	98.92542	62.65991
0.79351	1.03341	471.6025	482.6869	-1.06888	0.47424	0.93555	463.8192	433.1934
0.56175	0.97551	2387.865	2329.821	1.01829	0.73827	1.01829	2155.442	2194.287
0.64355	1.10918	131.8193	145.5328	1.15155	0.65547	1.15155	121.0983	141.2499
0.0039	1.40059	9241.662	12691.1	-3.55834	3.60E-20	0.28103	16710.5	4519.573
0.96445	0.98	68.06685	66.20067	-1.16129	0.77046	0.86111	93.75577	79.7937
0.25691	0.92559	1542.798	1431.149	1.46773	2.24E-07	1.46773	1297.105	1902.223
0.5992	1.06138	612.1746	654.7881	1.1593	0.12828	1.1593	537.454	620.7854
0.16935	1.12296	1316.036	1465.399	-1.03966	0.52787	0.96185	1901.905	1818.655
0.02154	0.84263	2436.718	2056.259	1.12558	0.01564	1.12558	3056.549	3441.401
0.09083	1.12946	413.6693	467.2296	1.05929	0.56731	1.05929	446.6052	474.4875
3.09E-08	0.74772	2528.876	1890.569	-1.14958	0.07206	0.86988	2207.558	1920.203

2.09E-08	0.34927	307.2752	107.8727	-1.94343	0.01774	0.51455	284.3174	144.9851
0.03743	1.10124	1782.877	1962.085	-1.03555	0.49876	0.96567	2073.139	2000.283
0.73618	1.51373	20.04821	29.62981	-1.06645	0.95916	0.93769	25.68435	33.6448
0.56274	1.17412	143.0851	166.0091	1.71206	0.00548	1.71206	140.65	240.0461
0.58591	0.9196	261.4884	238.8738	-1.06387	0.64195	0.93996	277.0894	260.7607
0.83145	0.95422	204.6032	191.4279	-1.3421	0.18381	0.7451	175.1007	130.4987
0.02072	1.09997	5163.011	5678.15	1.03102	0.55894	1.03102	5566.579	5722.648
0.50088	1.03387	3755.118	3889.08	-1.00695	0.91287	0.9931	4054.087	4032.028
0.97309	0.99817	1596.854	1597.395	-1.05728	0.34407	0.94582	1619.195	1532.078
0.73442	0.94268	524.835	502.5156	-1.44375	0.00188	0.69264	414.1989	286.9233
0.88094	1.04412	108.103	112.1278	-1.03418	0.94405	0.96695	109.6721	102.985
0.54727	1.11952	203.057	227.8428	1.09703	0.52622	1.09703	416.3196	450.0059
0.02247	0.73551	5148.938	3774.659	-1.07796	0.42834	0.92768	4019.14	3738.699
0.14733	1.0851	23549.88	25605.24	1.72405	4.13E-28	1.72405	24021.55	41423.39
0.0044	0.64578	3121.602	1980.655	-1.65028	0.00188	0.60596	2334.804	1390.8
0.55532	1.08178	275.5906	296.7402	-1.19391	0.15908	0.83759	303.4717	254.1091
0.06479	1.08578	3147.681	3415.147	-1.05523	0.32381	0.94766	3554.776	3371.235
1	1	18.96127	20.56679	1	1	1	17.25609	30.68814
7.09E-07	0.71053	926.0679	656.7995	-1.09886	0.12465	0.91003	779.1624	709.1628
0.00046	0.68177	6773.503	4677.159	1.14449	0.01057	1.14449	6574.412	7520.454
0.48893	1.08176	340.0936	366.41	1.66552	1.30E-07	1.66552	299.1031	498.1461
2.40E-06	0.62616	4251.413	2648.167	1.04007	0.63788	1.04007	3384.922	3517.496
0.95722	0.97971	90.66248	88.63762	-1.06929	0.88853	0.9352	73.43904	68.74825
0.00286	0.86959	2141.771	1861.575	-1.13573	0.29902	0.88049	2031.506	1788.715
0.93712	1.00931	5453.906	5590.25	-1.02354	0.72802	0.977	4860.352	4746.858
0.00256	0.72636	24361.28	17814.63	-1.03957	0.43778	0.96193	22233.27	21379.66
0.97712	0.99748	979.2175	976	5.00853	0	5.00853	986.2285	4939.113
0.02781	0.78848	2664.046	2092.92	-1.37828	0.00059	0.72554	2388.064	1726.776
0.85569	1.01838	622.9982	630.4964	-1.03545	0.64396	0.96576	607.8122	587.6487
0.31994	1.1122	516.7689	571.6244	1.0045	0.96856	1.0045	525.2828	531.0897
0.3293	0.92696	941.1572	876.6272	-1.09358	0.23908	0.91443	888.0612	810.519
0.04947	1.09209	4877.282	5329.849	-1.08144	0.1923	0.92469	5396.936	4981.097
0.97418	0.99782	600.8546	599.308	1.33064	0.00015	1.33064	506.8133	673.9868
0.65663	1.04223	419.3054	436.704	1.01327	0.81457	1.01327	825.5029	836.5027
0.06584	0.41958	169.2136	68.88664	-1.13318	0.83096	0.88247	95.23837	82.87801
0.00082	0.63563	3160.746	1999.292	-1.03286	0.73324	0.96819	2585.805	2500.86
0.00051	0.70226	1898.842	1328.185	1.05175	0.61083	1.05175	1519.385	1605.883
0.67152	1.02152	1867.504	1903.683	1.06351	0.2461	1.06351	1657.508	1764.904
0.2233	0.83791	15075.16	12625.48	-1.09397	0.42229	0.9141	14961.88	13554.49
0.35089	1.06657	1046.537	1119.123	1.02096	0.69308	1.02096	2963.56	3025.285
0.57346	1.08255	1830.668	1959.346	-2.06719	1.27E-24	0.48375	2483.546	1196.553
0.00413	0.76205	443.7462	337.6027	1.25137	0.05619	1.25137	348.5287	434.4053
0.40865	0.93453	4763.354	4481.269	1.36973	4.53E-10	1.36973	5809.954	7953.2
0.65934	0.95434	797.6255	765.7769	1.1347	0.2027	1.1347	506.1658	576.5479
0.58079	1.02429	7525.277	7706.842	-1.13982	0.00581	0.87733	7759.019	6811.764
0.15231	0.93449	2052.583	1915.568	1.50828	0.00002	1.50828	1853.62	2802.822
0.74758	1.04223	477.4412	495.1873	1.08938	0.3514	1.08938	465.3714	507.6495
0.73206	1.02046	1095.241	1119.708	1.23647	0.01564	1.23647	1100.492	1359.409
0.00049	0.62431	12365.77	7538.283	-1.09501	0.36798	0.91323	10348.83	9479.926
0.16861	0.88753	1443.224	1276.718	1.17091	0.02086	1.17091	1428.315	1671.293
0.32042	0.85269	277.7242	234.4718	1.25533	0.15443	1.25533	231.8951	290.3213
0.74542	1.02067	1482.426	1509.735	1.14496	0.00952	1.14496	1444.292	1652.689

0.96451	0.98936	250.7737	239.4745	2.23372	7.59E-06	2.23372	178.4539	401.2786
0.79796	1.08966	99.29021	108.0745	2.0033	0.00105	2.0033	125.0536	250.4173
0.03359	0.8906	884.6709	788.0281	-1.05924	0.4378	0.94407	771.041	726.5453
0.00143	1.24237	1749.573	2166.922	1.62212	0.00001	1.62212	1598.491	2603.566
0.2423	0.93666	899.648	843.2195	1.08835	0.13708	1.08835	2085.45	2265.184
0.00207	0.80453	8149.175	6558.608	-1.12265	0.09496	0.89075	7154.354	6378.054
0.23132	0.86376	831.5371	711.4856	1.23436	0.03428	1.23436	733.619	909.9429
0.33731	0.85754	13124.37	11281.28	1.13642	0.35809	1.13642	14223.35	15921.4
0.33032	0.9007	554.5994	502.8696	-1.4559	0.00109	0.68686	460.523	315.2401
0.54096	0.97243	5052.173	4907.097	1.10162	0.20711	1.10162	4793.051	5285.616
0.89023	0.897	40.85467	36.09791	1.21976	0.83556	1.21976	38.3997	48.48226
0.8764	1.11671	51.05135	57.77758	1.26234	0.79673	1.26234	42.9276	53.84029
0.36943	0.92882	7817.237	7337.734	-15.4079	0	0.0649	7325.769	475.4572
0.13691	1.14614	387.2493	444.7389	1.9856	7.10E-06	1.9856	344.314	676.7065
0.94908	0.98505	190.9424	192.1903	-1.0354	0.90624	0.96581	190.6281	179.6757
0.19871	0.87401	1885.641	1643.427	1.07652	0.32949	1.07652	1519.387	1639.679
0.91221	0.98241	434.7436	431.7526	-1.27199	0.05003	0.78617	390.5696	306.3095
0.33686	1.21139	193.0179	230.976	1.11973	0.40634	1.11973	239.4516	268.1313
0.39772	0.81801	2114.063	1715.463	-2.56131	1.11E-09	0.39042	1544.363	602.9577
0.98249	0.996	198.5802	199.3744	-1.16849	0.56358	0.85581	167.132	143.4014
0.50925	1.07584	287.5145	309.6599	-1.05562	0.72523	0.94731	307.3532	289.4422
0.12569	1.21701	344.7971	415.6375	1.48605	0.00004	1.48605	301.7856	448.2001
0.42466	0.87793	194.3261	170.822	1.15663	0.49112	1.15663	193.6042	221.6072
0.9969	0.99501	19.81405	23.17093	1	1	1	19.80446	31.53654
0.74018	0.9793	903.0117	885.4437	1.23611	0.00769	1.23611	781.2744	967.7411
0.24416	0.90623	5792.694	5251.498	1.14921	0.08179	1.14921	5280.237	6047.116
0.44421	0.85768	556.7739	487.2065	-1.50542	0.15157	0.66427	371.2484	246.6075
0.04796	0.83511	1533.584	1277.149	1.41278	7.69E-13	1.41278	1242.034	1754.604
0.98711	0.99818	691.7093	693.2903	-1.03393	0.59455	0.96719	723.6408	699.5988
0.00017	0.71801	6558.14	4677.569	-1.34236	0.00419	0.74495	5389.304	3989.559
0.00058	0.69901	1969.063	1373.295	-1.12137	0.18255	0.89176	1652.694	1476.393
0.062	1.10082	2461.824	2709.374	-1.05482	0.26845	0.94803	2746.045	2600.795
0.21646	0.74154	215.2884	164.0429	1.39391	0.11775	1.39391	186.4627	257.334
0.00113	0.83421	11905.8	9925.309	-1.08765	0.14394	0.91941	9747.694	8928.747
0.93206	0.98491	231.9102	230.2724	-1.28171	0.01541	0.78021	453.913	354.5743
0.6152	0.94734	1483.119	1417.104	-1.36689	3.07E-06	0.73159	1311.304	960.626
0.03406	1.09326	5134.176	5612.413	-1.38161	1.12E-08	0.72379	5462.983	3949.059
0.95599	1.00684	319.6448	321.0992	1.03269	0.77323	1.03269	324.1619	335.1638
0.00276	0.77129	542.0478	416.8973	-1.20239	0.04508	0.83168	511.5862	425.8928
2.01E-09	0.69227	1205.016	834.4192	3.15784	6.82E-32	3.15784	944.8843	2999.156
1	1	18.93656	22.59216	1	1	1	17.95516	31.79316
0.5062	1.03444	2779.868	2881.463	-1.06532	0.26314	0.93868	2822.014	2646.843
0.30753	1.13812	40693.48	46321.84	1.19409	0.24824	1.19409	41190.59	49771.39
0.0748	0.82157	13400.71	11073.43	1.21152	0.00319	1.21152	12267.53	14886.85
0.19376	1.07004	2148.477	2304.411	1.06682	0.30385	1.06682	2354.57	2508.341
0.33751	0.88518	513.7311	454.257	1.44095	2.39E-09	1.44095	577.7389	832.5412
0.51895	0.88222	189.8915	166.3561	2.47774	1.29E-09	2.47774	155.9812	385.7228
0.01399	1.31386	514.4661	671.2561	1.25264	0.02381	1.25264	487.9445	608.9418
0.76528	0.95941	421.0498	400.1567	1.05719	0.6392	1.05719	418.7269	444.657
0.73757	0.95133	392.7329	378.0737	-1.29377	0.09353	0.77293	296.8015	228.7237
0.89031	1.0173	1207.444	1241.716	-1.19925	0.0018	0.83386	1089.206	907.537
0.0023	1.15142	5071.196	5834.341	-1.2728	0.00123	0.78567	6041.958	4731.117

0.61102	0.90969	1805.238	1635.519	1.61362	0.00148	1.61362	1381.993	2276.113
0.84328	1.0139	1327.496	1343.828	1.57687	1.57E-07	1.57687	1716.834	2717.446
0.76354	0.98246	2410.359	2367.103	-1.22935	0.00494	0.81344	2806.469	2280.298
0.13861	1.06701	1721.009	1836.34	1.25266	0.03756	1.25266	1723.175	2147.177
2.58E-07	0.76768	1157.55	888.4492	-1.26794	0.00027	0.78868	833.7064	658.0004
0.87092	0.96741	164.122	158.655	1.06037	0.79783	1.06037	162.8209	171.6856
0.77024	1.03674	316.5699	329.3858	-1.13739	0.24118	0.8792	312.358	274.6157
0.71029	1.02469	740.8399	760.5674	1.15455	0.03211	1.15455	751.6274	868.8446
0.04538	1.13585	6842.725	7816.002	-1.28547	0.00116	0.77793	7310.401	5656.152
0.62713	1.0541	571.5984	606.8286	-1.27073	0.05914	0.78695	661.1493	516.3711
0.00731	0.80638	1165.339	939.9655	-1.00801	0.87418	0.99205	1291.439	1281.069
0.58579	1.05202	573.3665	600.7941	1.04128	0.57883	1.04128	647.9085	674.1122
0.07323	0.92487	1933.601	1788.641	1.19038	0.00008	1.19038	1702.441	2026.417
0.01947	0.83738	723.9135	607.1867	-1.15103	0.13449	0.86879	639.6843	553.9197
0.90282	1.01193	424.5965	429.0391	-1.07993	0.34791	0.92598	466.5774	431.9569
0.00001	0.82916	14052.97	11653.12	1.48965	1.14E-19	1.48965	12730.74	18965.84
0.90299	1.00793	9114.824	9208.359	1.29519	3.86E-07	1.29519	8761.75	11353.69
0.15041	0.78654	343.3129	265.5487	-1.0814	0.57402	0.92473	276.3294	256.0739
0.93909	1.0191	188.2184	192.976	-1.47875	0.23252	0.67625	132.329	89.36726
0.66993	0.94272	4900.772	4583.894	-1.547	6.54E-10	0.64641	3880.228	2509.945
5.05E-09	1.26592	15112.09	19124.37	1.7875	2.16E-07	1.7875	19515.32	34965.23
0.38992	0.78989	286.3507	217.4008	1.06644	0.75781	1.06644	242.2072	262.8476
0.27868	1.05156	1566.467	1647.115	1.60501	4.11E-11	1.60501	1593.322	2561.265
0.00044	1.22689	1875.797	2301.469	2.38875	0	2.38875	1745.411	4171.047
0.77299	1.02298	2034.783	2070.754	-1.11252	0.01438	0.89886	2308.677	2075.145
0.38442	0.92571	1395.738	1284.249	1.28713	5.04E-06	1.28713	1277.568	1646.587
0.05138	1.16386	14212.95	16531.71	-1.49848	0.00059	0.66734	19496.35	12850.53
0.09442	0.89206	2436.85	2170.313	-1.01286	0.79009	0.9873	2418.183	2387.149
0.66779	1.0405	940.3777	976.3724	1.61367	2.07E-11	1.61367	796.3211	1284.079
0.17846	1.10205	4613.262	5103.03	-1.11999	0.08409	0.89286	5130.846	4591.588
0.04261	1.10259	2163.691	2388.536	1.1124	0.11299	1.1124	2379.492	2650.867
0.02795	0.78041	1134.011	879.9293	1.27743	0.00049	1.27743	968.6816	1239.251
0.05071	1.0966	5072.497	5558.86	-1.22688	0.00005	0.81507	6204.221	5052.064
0.53299	0.94989	978.1573	932.2469	-1.13769	0.04443	0.87897	820.4955	720.6428
0.39027	1.05068	752.0669	789.5722	1.18521	0.02113	1.18521	736.1002	871.3287
0.334	0.88471	3790.179	3329.287	-1.1827	0.00674	0.84552	2904.843	2457.018
0.23361	0.8799	9545.91	8456.078	1.15702	0.11242	1.15702	8863.271	10273.08
0.00533	1.16655	1508.189	1763.711	1.17261	0.00482	1.17261	1603.389	1877.214
0.23866	1.061	1289.876	1369.974	-1.03352	0.67597	0.96756	1387.92	1340.846
0.92319	1.02945	91.34846	94.16599	1.35017	0.36583	1.35017	86.49719	116.6121
0.25215	0.77013	213.3142	161.1554	1.67701	0.00223	1.67701	170.3869	286.595
0.88088	1.01756	811.4696	833.1384	-1.11514	0.16042	0.89675	758.3911	678.8705
0.19922	0.80009	2160.79	1723.668	1.10746	0.53152	1.10746	1815.55	2033.042
0.30174	1.14389	6988.804	7929.656	-2.68949	5.86E-31	0.37182	7090.321	2619.909
0.06379	0.92215	4809.813	4436.901	1.7281	5.64E-15	1.7281	4311.745	7453.644
0.86151	0.88847	58.2721	51.11346	1.03706	0.96109	1.03706	58.25385	62.85189
0.00126	0.83338	2086.1	1735.672	1.49154	9.40E-14	1.49154	1856.389	2770.544
0.0032	0.76116	5865.741	4461.522	1.1235	0.06241	1.1235	5048.261	5685.469
0.6882	1.0439	1333.829	1409.404	-1.02896	0.73269	0.97186	1207.659	1167.124
0.58285	0.96298	6491.325	6239.39	1.11551	0.0357	1.11551	6232.682	6950.387
0.00505	0.66235	1319.032	865.0767	1.23767	0.00262	1.23767	993.8046	1232.216
0.92242	0.97885	150.9027	147.8939	1.43417	0.14011	1.43417	122.8543	175.3763

0.62396	0.95271	554.7421	525.7316	-1.00198	0.97975	0.99802	717.514	717.361
0.00185	1.13476	9397.696	10664.28	-1.46558	4.42E-07	0.68233	10447.43	7101.104
0.54883	0.96096	1008.139	969.309	1.09802	0.0896	1.09802	956.0305	1049.62
0.88961	1.00958	530.3655	535.2181	-1.07359	0.41475	0.93145	488.3341	454.3157
0.32169	1.04294	2260.801	2358.206	-1.05465	0.28721	0.94818	2585.683	2449.73
0.30369	0.82454	1995.682	1682.241	-1.48244	0.00077	0.67456	1254.122	847.9236
0.13774	0.84101	7668.379	6462.205	1.19543	0.07157	1.19543	7103.045	8470.929
0.61929	1.04228	710.7572	737.7085	1.16057	0.08051	1.16057	593.02	686.5714
0.02331	1.12462	10149.08	11418.68	-1.12962	0.08996	0.88525	12282.1	10892.64
0.88315	0.98088	323.5194	315.4049	1.29996	0.0269	1.29996	289.3969	375.8001
0.9164	0.97987	326.264	327.4536	-1.2453	0.34724	0.80302	231.6335	182.8192
0.00119	1.18058	818.2456	965.957	1.39731	0.00005	1.39731	859.5233	1200.727
0.63656	0.97004	764.1787	742.3657	1.01749	0.77693	1.01749	716.5805	729.2687
0.08799	1.08593	3019.261	3276.912	-1.34216	3.92E-08	0.74507	2859.156	2129.781
0.18743	0.9173	9244.824	8497.225	1.11504	0.19818	1.11504	9426.488	10491.18
0.01662	0.83658	5072.865	4248.433	1.12124	0.12554	1.12124	4480.517	5024.093
0.63494	0.95425	308.2247	294.1638	1.03575	0.76878	1.03575	323.1706	335.5232
0.29549	0.92742	1325.953	1233.114	1.05133	0.56153	1.05133	1159.802	1214.855
0.96573	1.00221	2848.812	2849.984	-1.06996	0.16963	0.93462	2973.887	2780.697
0.38185	0.84632	350.4236	289.4907	2.00773	5.86E-08	2.00773	315.5828	638.6612
0.79621	0.97175	1724.03	1672.384	-1.44385	1.81E-13	0.69259	1669.075	1155.898
0.89363	1.00651	1159.937	1167.88	1.05552	0.3331	1.05552	1127.903	1191.751
0.26269	1.0564	1391.289	1468.845	-1.08116	0.35068	0.92493	1342.964	1236.293
0.03149	0.80809	5221.529	4234.003	1.05534	0.49706	1.05534	4801.57	5065.59
0.01763	1.11777	1625.079	1817.664	-1.00308	0.95063	0.99693	1772.443	1765.718
0.70842	0.9668	427.8582	414.2386	1.04102	0.69563	1.04102	381.8286	397.4498
0.08966	1.09553	1036.601	1134.367	1.00436	0.93179	1.00436	1208.329	1213.633
0.88799	1.00978	621.5833	626.9053	1.09237	0.33628	1.09237	548.0065	600.4182
0.59414	0.89769	1070.39	954.8872	-1.31201	0.05547	0.76219	1407.603	1067.731
0.00041	0.82502	1989.07	1640.686	1.09294	0.06412	1.09294	1659.05	1812.948
0.62683	0.91091	1575.239	1412.235	-2.14596	1.34E-28	0.46599	1570.667	730.7238
0.00481	0.705	10524.91	7369.23	1.30487	0.02082	1.30487	9792.125	12720.27
0.94593	1.01769	139.9001	143.3077	-2.00752	0.28138	0.49813	85.59353	43.80101
0.69616	1.02281	2928.163	2975.418	-1.03842	0.52991	0.963	4203.801	4039.752
0.29525	1.09223	1143.755	1255.396	-1.25226	0.00046	0.79855	1260.877	1004.872
0.88763	1.1487	33.2414	37.35709	1.34374	0.7811	1.34374	35.26984	48.64137
0.13944	0.88695	2395.146	2135.968	-1.16383	0.08894	0.85923	2335.45	1998.189
0.79095	1.02305	1299.937	1326.362	-1.28631	0.0012	0.77741	1921.352	1497.835
0.54807	1.05975	779.6898	830.7806	-1.18642	0.07971	0.84287	906.8386	761.5258
0.27239	0.81159	364.6146	287.2448	1.21599	0.21821	1.21599	294.2499	354.4979
0.64671	1.03458	596.4011	616.1614	-1.09414	0.20887	0.91396	625.9553	571.6608
0.01643	0.75863	2231.898	1681.172	-1.05142	0.65506	0.9511	1984.63	1885.008
0.00027	1.21886	3848.144	4678.517	1.19292	0.0001	1.19292	4282.19	5111.154
0.07789	0.89235	2502.32	2230.042	1.31278	0.00001	1.31278	2502.56	3291.055
0.96414	1.00321	1887.126	1894.663	1.44862	3.68E-08	1.44862	1759.63	2551.926
0.35456	0.85399	870.3917	748.2313	-1.79151	1.28E-07	0.55819	591.7712	331.4254
0.53527	0.82821	453.5673	400.8477	-4.52857	1.73E-21	0.22082	537.7065	118.1896
0.02697	0.82633	1290.698	1063.81	2.97125	3.34E-36	2.97125	1159.327	3461.732
0.59938	1.22628	89.00761	111.7458	-2.10989	0.47235	0.47396	59.76178	28.78558
0.20499	1.10059	1877.063	2085.319	1.08099	0.18404	1.08099	1881.483	2031.527
0.85604	1.06915	80.20288	85.56825	1.32065	0.46693	1.32065	74.46436	98.53294
0.28911	0.87716	394.5341	343.3533	1.74529	2.03E-07	1.74529	326.0239	570.8881

0.10451	1.11781	5322.258	5903.311	-1.46296	1.09E-10	0.68355	9293.645	6336.957
0.02182	1.2761	4411.322	5603.413	-2.57098	8.37E-11	0.38896	7608.911	2846.354
0.64243	1.04105	827.2371	855.8943	-1.04219	0.54153	0.95952	900.936	863.0696
0.5498	1.0779	446.8778	482.5255	1.27422	0.00455	1.27422	622.6804	791.4437
0.40877	0.91813	9078.414	8387.664	1.71957	6.88E-26	1.71957	8205.408	14102.96
0.27767	0.94906	8241.682	7810.091	1.72197	5.19E-18	1.72197	8723.248	15018.61
0.35024	0.95469	1645.568	1572.024	-1.09415	0.08359	0.91395	1676.692	1531.781
0.44856	0.94377	1085.38	1027.217	-1.20697	0.04389	0.82852	878.5672	725.4962
0.13045	1.07968	1553.22	1674.547	1.04478	0.37283	1.04478	1731.679	1809.957
0.62409	1.05427	358.9586	377.7681	1.06701	0.50473	1.06701	403.7575	430.2643
0.84583	0.97783	25056.7	24609.61	1.17155	0.10441	1.17155	24283.71	28604.86
0.00175	1.23843	829.6516	1025.42	1.33439	0.00008	1.33439	956.8456	1280.742
0.85809	1.01051	4055.224	4107.545	-1.01824	0.77945	0.98209	4801.337	4752.719
0.62599	0.96637	6356.126	6145.555	1.79111	4.52E-17	1.79111	5789.685	10369.69
0.03806	1.10896	958.7509	1063.353	1.14573	0.06378	1.14573	837.7896	958.0847
0.97206	1.00371	1400.029	1424.78	-1.12011	0.20615	0.89277	1536.378	1365.476
0.78838	1.27692	29.11813	36.80797	3.41932	0.04771	3.41932	26.89479	91.9928
0.00006	0.84755	7394.954	6267.517	1.21611	0.00009	1.21611	6068.845	7383.425
0.36221	0.88464	436.3818	381.3365	-2.86713	1.65E-12	0.34878	361.5737	126.0192
0.9093	1.07574	45.6813	48.59468	-1.10937	0.88078	0.90141	49.95151	45.25226
0.11738	0.83731	491.0151	408.033	1.08105	0.45583	1.08105	546.8232	590.2081
0.38116	0.86801	435.6234	386.2057	1.01836	0.87642	1.01836	324.1039	330.2404
0.05319	1.15367	1118.848	1286.796	1.43496	2.28E-14	1.43496	2255.556	3238.785
0.92789	0.98183	278.9571	279.5939	-1.27891	0.39629	0.78192	201.9047	163.4442
0.53638	0.8918	201.5099	179.8041	-1.19845	0.34532	0.83441	214.6525	179.89
0.27481	0.94519	11811.42	11144.13	-1.04618	0.3901	0.95586	12287.03	11741.7
0.84498	0.96864	32894.03	32047.41	1.19793	0.20936	1.19793	32914.54	39499.63
0.52515	0.88086	225.5962	201.7936	-1.08001	0.72012	0.92591	191.415	177.1744
0.97823	1.00249	867.9499	865.7463	1.27709	0.00211	1.27709	782.9834	1001.781
0.3075	0.83513	361.8478	299.1291	1.11005	0.39864	1.11005	326.7188	363.8425
0.36621	0.87794	7320.285	6534.32	-1.51516	6.22E-10	0.66	5780.388	3802.7
0.80212	1.02114	918.3591	941.0408	-1.16624	0.02293	0.85745	957.5115	819.9136
0.20445	1.24979	288.178	352.6559	1.96594	1.36E-07	1.96594	227.6675	449.0648
0.98914	0.99503	108.1793	107.237	-1.13165	0.77074	0.88367	94.2583	82.38216
0.00035	0.83518	3869.952	3229.494	1.4991	2.95E-12	1.4991	3556.324	5334.559
0.00037	0.48905	2863.866	1349.56	-1.00737	0.94991	0.99268	1625.376	1635.29
0.91991	0.98703	235.232	232.021	1.05468	0.74443	1.05468	219.9499	231.3247
0.0935	1.12793	698.1652	787.151	1.07617	0.25221	1.07617	1239.581	1336.118
0.00173	0.77244	1002.744	776.167	-2.27007	7.30E-08	0.44051	721.7544	314.4034
0.6226	0.92104	719.5759	672.5681	-2.30587	3.67E-07	0.43368	420.657	183.9312
0.23536	1.07439	850.8684	913.5952	1.21155	0.07564	1.21155	854.5257	1030.036
0.00554	1.19254	703.7737	840.6351	-1.12964	0.13537	0.88524	932.913	824.3406
0.02045	1.14541	1820.193	2083.812	1.13768	0.00475	1.13768	1664.892	1894.137
0.64467	1.04289	835.1283	876.7676	1.07033	0.39043	1.07033	747.5118	798.6597
0.0001	0.72634	6483.665	4680.588	-1.09243	0.04962	0.91539	4902.006	4485.443
0.10526	0.88528	23273.73	20700.08	-1.37919	8.30E-07	0.72506	20967.34	15191.92
0.00571	0.74553	1222.324	906.773	-1.18025	0.02441	0.84727	996.8731	845.9192
0.98681	0.99441	101.5748	99.73003	2.85639	0.00001	2.85639	99.57887	286.8472
0.46814	1.05637	616.2118	650.4465	-1.0175	0.844	0.9828	974.8347	955.4175
0.24768	1.18728	1012.201	1206.946	1.95475	6.37E-16	1.95475	758.5855	1489.999
0.62921	1.03723	726.1044	754.1458	1.29256	0.00014	1.29256	904.2236	1167.345
0.17365	1.10205	10117.73	11231.59	-1.24158	0.016	0.80543	11129.1	8824.179

0.00342	0.67375	3032.709	2055.95	1.0299	0.80067	1.0299	2746.135	2828.235
0.56776	1.02527	1857.63	1904.176	-1.01948	0.68131	0.98089	2193.683	2152.366
0.83714	0.99004	1649.157	1633.98	-1.0433	0.49329	0.95849	1647.364	1576.886
0.47477	1.03266	4141.394	4280.674	1.26273	0.00297	1.26273	3616.91	4549.705
0.69677	0.91276	6147.821	5198.5	-8.86898	0	0.11275	3609.743	405.05
0.24527	1.10652	845.0753	939.3633	1.55444	0.00003	1.55444	826.6511	1283.846
0.56995	1.05017	475.8246	498.2488	1.04363	0.56947	1.04363	535.9574	559.5707
0.7787	0.90642	93.51846	85.30479	-1.25449	0.63702	0.79714	102.9074	81.2317
0.61494	1.04019	4608.883	4779.977	1.46304	4.30E-06	1.46304	4150.018	6082.34
0.33068	0.90317	393.8769	354.6599	-1.72973	0.00554	0.57812	328.481	188.6837
0.00306	1.20464	4855.668	5880.296	1.62571	2.08E-11	1.62571	4453.113	7238.865
0.82843	1.06581	178.5009	196.6055	-2.11239	0.11418	0.4734	157.488	80.11664
0.00754	0.86386	2163.647	1871.029	-1.16378	0.00132	0.85927	3115.432	2675.302
0.02181	0.66612	4040.254	2641.007	1.23603	0.15986	1.23603	3034.004	3833.699
0.74323	0.92206	184.038	172.9443	-2.04024	0.03016	0.49014	183.3362	91.48741
0.49107	1.04965	3562.822	3740.126	1.34486	1.95E-06	1.34486	3409.48	4581.538
0.01877	1.12157	3905.963	4387.591	2.00633	1.15E-20	2.00633	3873.052	7784.243
0.63827	1.02729	1251.344	1285.746	-1.26812	0.00003	0.78857	1916.991	1509.336
0.15353	0.84651	531.2775	445.7932	4.28287	0	4.28287	468.2601	2004.63
0.01951	1.14743	2077.276	2380.055	-1.13982	0.05094	0.87733	2920.817	2548.82
0.26185	0.89231	385.2439	344.7871	-1.25672	0.20815	0.79572	333.2834	265.771
0.78151	1.03289	1259.463	1305.562	-1.62519	1.34E-18	0.61531	1212.612	746.2563
0.51511	1.03868	1507.145	1571.604	-1.07932	0.26664	0.92651	1551.735	1434.559
0.04477	0.83153	3452.741	2861.061	-1.04473	0.54962	0.95719	3174.41	3037.247
0.37048	0.9014	569.8452	509.0829	1.55932	0.00003	1.55932	514.4155	798.954
0.31897	0.95765	2108.258	2018.489	-1.07577	0.28149	0.92957	2140.865	1982.722
0.67771	0.94278	318.7451	297.6314	-1.4032	0.0007	0.71266	397.9951	283.5443
0.04843	1.12042	3996.585	4466.25	-1.03652	0.45693	0.96476	4382.97	4227.482
0.79579	0.98143	719.6666	704.8334	-1.32019	0.01127	0.75746	685.6053	521.963
0.10197	0.71672	228.1177	162.2258	-1.3259	0.36431	0.7542	138.3733	105.2262
0.69444	1.02076	3110.575	3178.975	1.21281	0.00939	1.21281	3003.205	3646.098
0.95367	0.99094	276.2226	276.1877	1.27833	0.08538	1.27833	236.2856	302.8716
0.71853	0.9754	878.5159	854.2944	-1.06848	0.33682	0.93591	874.0391	819.3158
0.95013	1.00526	1187.845	1189.49	-1.08345	0.23116	0.92297	1014.3	938.0131
0.00003	1.28527	2036.427	2627.425	1.83961	3.54E-12	1.83961	1852.268	3414.832
0.0463	1.1121	2269.804	2528.171	1.12168	0.10196	1.12168	2655.106	2976.959
0.00068	0.65452	1154.117	745.9055	-1.17177	0.01985	0.85341	878.3812	750.5786
0.00244	0.81126	6506.144	5299.149	1.09165	0.28868	1.09165	5456.026	5944.915
0.0331	0.72069	382.5567	271.5167	-1.1136	0.41098	0.89799	318.8708	286.4247
0.14277	0.78825	719.4091	557.0787	1.10179	0.27338	1.10179	683.504	755.5997
0.91314	0.97873	228.3547	220.5807	1.36063	0.02233	1.36063	222.4589	303.0408
0.59868	1.03497	702.4076	726.3141	-1.10149	0.21404	0.90786	570.8153	517.9345
0.7335	0.96912	1550.762	1499.528	1.13543	0.31563	1.13543	1328.159	1508.026
0.66117	0.91343	211.5849	195.9416	1.10085	0.71727	1.10085	186.6624	202.1367
0.4816	1.06986	514.3091	547.9554	1.70491	0.00002	1.70491	425.9587	722.3535
0.64616	1.03068	1268.803	1313.104	-1.05874	0.39561	0.94452	1388.926	1310.719
0.35896	1.05902	5446.568	5792.968	-1.23719	3.16E-06	0.80829	6493.169	5254.582
0.86906	1.03044	6402.609	6562.329	-2.06251	9.21E-10	0.48485	6523.195	3124.969
0.1703	1.09636	2416.887	2648.802	-1.59639	1.85E-07	0.62641	2568.37	1611.395
0.37168	1.09287	400.6177	436.1295	-1.11698	0.18191	0.89527	455.5591	407.8389
0.8621	1.01325	970.1431	987.364	-1.07042	0.26448	0.93421	990.6445	924.4331
0.00319	1.15784	968.0817	1121.137	1.17586	0.00641	1.17586	929.4121	1091.834

0.2349	1.12585	503.4682	563.7069	1.04801	0.65491	1.04801	451.2551	474.6856
0.13305	1.25267	260.0317	329.1599	-1.43658	0.15751	0.6961	370.0535	251.5281
0.1569	1.19581	277.1555	329.9829	-1.03824	0.75246	0.96317	327.1211	314.515
0.9531	0.98664	168.4067	164.2209	-1.08671	0.72956	0.92021	137.2345	126.2421
0.75054	0.98128	2175.958	2144.57	-1.15362	0.0337	0.86684	2018.073	1740.595
0.98461	0.99857	595.0634	592.8786	-1.04876	0.55552	0.95351	600.1409	572.6325
0.29589	0.8193	882.3539	730.3713	-1.15981	0.04989	0.86221	766.5831	661.6976
0.02009	1.13079	1049.548	1187.756	-1.04805	0.5593	0.95415	1279.763	1220.575
0.92158	0.99486	1886.915	1877.491	-1.08875	0.20114	0.91848	1966.379	1801.409
0.68236	0.9559	1962.995	1876.358	1.36775	0.0039	1.36775	1876.843	2565.614
0.11907	1.09982	718.8468	791.5149	-1.04625	0.48784	0.9558	721.4505	689.3556
0.00015	0.84288	3386.229	2853.52	-1.00687	0.87239	0.99317	2968.331	2948.047
0.98214	1.00162	1970.125	1973.891	1.32357	0.00003	1.32357	1699.041	2250.654
0.67981	0.95374	3682.249	3511.913	-1.12983	0.04223	0.88509	4615.849	4062.536
0.85975	1.00723	4652.506	4686.503	-1.09574	0.05158	0.91262	4743.056	4325.895
0.07699	0.87074	12092.4	10535.68	-1.14004	0.07252	0.87716	11155.58	9777.107
0.11627	1.07597	2299.644	2475.327	-1.01619	0.70877	0.98407	2515.001	2474.97
0.39414	1.08416	1089.875	1187	-1.03778	0.55848	0.9636	1221.945	1175.354
0.88559	1.02255	213.3961	219.0168	-1.1864	0.46615	0.84289	196.2875	163.8867
0.00453	1.14724	4464.148	5125.85	-1.10427	0.26955	0.90557	5795.685	5246.623
0.73047	0.97033	643.2278	626.7302	1.10341	0.353	1.10341	562.7658	618.084
0.70394	0.92957	2241.984	2077.655	-1.7718	3.07E-23	0.5644	2153.642	1215.061
0.05492	0.88096	4810.363	4250.626	1.09707	0.01716	1.09707	4723.736	5181.026
1	1	18.78553	23.1335	1	1	1	20.03725	32.06245
0.03621	0.88231	4017.308	3536.66	-1.12251	0.32543	0.89086	3748.03	3347.734
0.00012	0.52968	930.7483	482.8734	1.44423	0.00275	1.44423	668.3725	973.5151
0.02323	1.41808	733.0562	1040.484	3.22935	1.20E-12	3.22935	812.1836	2662.106
0.29976	0.90114	4840.479	4377.997	1.34003	0.00004	1.34003	4108.924	5502.401
0.00283	1.25251	1403.848	1752.359	-1.39899	1.24E-07	0.7148	3327.75	2364.725
0.28434	0.71574	157.2128	109.7684	-1.36201	0.46222	0.73421	101.8002	74.30288
0.71922	1.02497	903.0233	922.7471	1.03671	0.59287	1.03671	964.1256	1000.829
0.00859	0.69902	1783.771	1246.426	-1.12522	0.32243	0.88872	1830.718	1615.607
0.00922	0.83178	1019.183	846.4687	1.90405	8.80E-19	1.90405	857.2755	1630.663
0.00147	0.86359	2206.015	1904.619	1.18572	0.00158	1.18572	2064.573	2449.39
0.17678	0.85996	4930.354	4254.181	1.17571	0.20475	1.17571	4501.637	5286.909
0.47924	0.8181	170.7908	143.8098	-1.33966	0.53879	0.74646	113.5651	83.99728
0.96933	1.00448	301.7535	303.1446	1.02933	0.83783	1.02933	288.3354	296.5092
0.02226	0.8816	3225.392	2841.115	1.03036	0.58876	1.03036	3077.408	3167.859
0.526	1.05345	1041.481	1099.255	-1.13604	0.01462	0.88025	1175.409	1034.416
0.69264	1.03063	765.4294	786.1282	-1.029	0.70312	0.97182	772.9148	749.8289
0.5887	1.06536	361.1267	382.3831	-1.06267	0.8248	0.94103	326.6314	307.3687
0.01747	1.18135	610.674	722.3334	1.23841	0.07844	1.23841	747.9082	922.1453
0.56424	1.05235	1090.319	1145.467	1.07108	0.42697	1.07108	1102.203	1184.478
0.73485	1.01412	4215.667	4275.25	-1.07018	0.19956	0.93442	4301.304	4022.226
3.34E-06	1.28948	4333.783	5604.164	1.87916	5.57E-13	1.87916	4006.849	7549.642
0.99339	1.0009	5046.577	5144.49	1.49883	7.65E-22	1.49883	4616.244	6918.979
0.69659	0.88119	95.34958	84.32888	-1.47048	0.47936	0.68005	98.7961	69.65927
0.06566	0.91745	4620.984	4241.562	1.13491	0.01936	1.13491	4256.248	4827.302
0.08939	0.84137	651.547	551.4591	-1.44677	0.00036	0.69119	431.7214	298.6614
0.96793	1.00551	622.4713	632.8207	-1.27492	0.03949	0.78436	420.6196	330.6936
1.02E-07	0.72894	2918.972	2125.281	-1.26129	2.71E-06	0.79284	2546.904	2019.529
0.59488	1.4111	40.05788	55.71104	1.18978	0.81517	1.18978	41.6114	49.50004

0.91165	0.98033	721.7241	695.8842	1.70154	0.0001	1.70154	857.3657	1472.053
0.00142	0.85	2186.074	1857.503	-1.06659	0.2721	0.93757	1960.061	1838.391
0.9341	0.98298	283.2652	270.7762	1.0566	0.76146	1.0566	251.3465	266.569
0.71729	0.89862	113.3909	101.1502	4.73871	2.06E-23	4.73871	107.9356	509.8246
0.36427	0.7808	265.6326	198.429	-1.08037	0.70286	0.92561	211.3591	196.8448
0.62962	1.03012	708.5158	729.0929	-1.02119	0.75139	0.97925	762.0504	745.5225
0.15921	0.89299	978.6798	872.6151	-1.02464	0.67182	0.97596	870.3359	849.1851
0.00377	0.84568	2008.187	1702.755	-1.07367	0.14192	0.93138	1920.224	1789.416
0.58395	0.91502	481.0156	431.7358	1.56663	7.63E-07	1.56663	394.5206	617.0724
0.1426	0.84084	5534.718	4650.095	1.54343	0.00006	1.54343	4804.121	7457.992
0.84551	1.02909	233.3378	238.9901	1.08352	0.56065	1.08352	245.1559	265.6483
0.08472	0.85246	880.6246	747.3644	1.19532	0.0066	1.19532	759.6307	907.3765
0.82907	1.07032	91.3485	97.32162	-1.2499	0.53305	0.80007	121.4859	97.42888
0.20776	1.13515	417.0917	471.488	1.11858	0.19696	1.11858	433.7718	484.9053
0.34848	0.93879	1874.674	1762.879	1.21399	0.00158	1.21399	1753.235	2125.22
0.02373	0.8697	3872.085	3369.516	1.26586	2.67E-07	1.26586	3393.969	4295.404
0.00096	0.5905	1603.231	928.8103	1.20502	0.19566	1.20502	1170.781	1429.453
0.65991	0.93089	321.4642	294.7758	-1.20191	0.30355	0.83201	255.8957	214.3272
0.79492	1.05029	211.1167	219.1828	1.28208	0.24855	1.28208	183.857	233.7679
0.71085	1.01645	2948.103	2998.352	-1.07712	0.095	0.9284	2936.17	2727.016
0.99279	1.00101	537.9893	534.3621	1.00679	0.94657	1.00679	525.8428	527.4257
0.07729	0.84338	21491.98	18175.71	1.73002	6.87E-13	1.73002	20771.1	36054.83
0.00023	0.62534	8489.484	5274.58	-1.31845	0.00141	0.75846	6215.792	4719.785
0.28455	1.05676	1849.869	1956.064	-1.02792	0.6384	0.97284	2115.357	2057.308
0.01777	0.88868	4978.294	4425.693	1.26956	0.00002	1.26956	4343.63	5518.124
0.93071	1.11614	21.5911	25.5303	1.20041	0.91733	1.20041	18.11393	34.15064
0.55655	1.09416	287.1149	310.5092	-1.01827	0.90487	0.98206	304.2439	299.4601
0.32144	0.82998	210.3113	173.2582	-1.13666	0.69979	0.87977	133.5015	118.0498
0.76123	0.9788	2528.044	2496.292	-1.09317	0.2174	0.91477	2319.188	2108.725
0.66147	1.05693	987.9503	1036.477	-1.17697	0.01369	0.84964	984.1558	834.8444
0.57229	0.8809	197.9934	171.627	-1.01149	0.95874	0.98864	156.0179	153.8942
0.96403	1.00816	179.3042	181.5354	1.0666	0.80337	1.0666	157.2008	167.6838
0.23107	1.09491	416.6718	456.1448	-1.10472	0.34382	0.90521	486.1121	438.4363
0.72797	0.92051	169.2084	158.1623	-1.27143	0.26926	0.78652	197.1057	154.9061
0.00001	0.72076	5074.685	3644.394	1.096	0.13356	1.096	4052.553	4445.759
0.11716	1.09785	1462.329	1600.563	1.44828	0.00006	1.44828	1759.678	2536.692
0.91929	1.00591	932.6963	938.2142	1.35098	0.05672	1.35098	843.7734	1137.037
0.744	0.82255	57.05644	47.58021	-1.01539	0.9841	0.98485	64.34589	61.32156
0.08293	1.11561	845.6371	941.4658	1.11603	0.05941	1.11603	1075.129	1198.927
4.08E-06	0.68205	30894.76	21067.27	-1.54572	3.95E-17	0.64695	25350.49	16386.4
0.06325	1.46437	211.2204	300.5707	3.84463	8.91E-30	3.84463	175.1895	671.9448
0.95419	1.07444	22.10603	23.49657	1	1	1	18.05302	29.64679
0.63645	1.04442	679.9987	706.3928	-1.05482	0.50349	0.94803	611.5578	580.7091
0.87982	1.05117	86.3093	90.95718	1.03633	0.92816	1.03633	94.37935	96.95435
0.17306	0.86737	1309.003	1133.355	-1.22873	0.05296	0.81385	1134.172	924.3591
0.96446	0.99213	213.5174	213.1179	-1.02753	0.9065	0.9732	209.4916	202.6599
0.18503	1.06337	4319.723	4609.007	1.04987	0.27481	1.04987	6059.834	6361.317
0.61222	0.97047	5408.491	5258.732	1.25102	3.67E-06	1.25102	5036.167	6301.056
0.00618	0.81017	855.9607	692.3574	1.08983	0.22755	1.08983	934.0911	1016.495
4.26E-06	1.44002	43739.5	62538.6	-1.18311	0.11315	0.84523	52590.08	43866.89
0.17376	0.84504	878.3286	736.306	1.41934	0.00083	1.41934	709.4751	1012.535
0.83358	0.95114	520.3506	509.6457	-3.19419	6.34E-13	0.31307	562.4236	174.4687

0.74063	1.03048	1096.154	1125.306	-2.16135	7.91E-18	0.46267	1000.522	463.7125
0.43281	0.76466	210.3387	151.7641	1.28228	0.24657	1.28228	154.2992	198.1202
0.01031	0.85941	3457.242	2971.237	-1.06007	0.54324	0.94333	2902.444	2735.236
0.51138	0.71922	114.4979	90.66373	2.04586	0.09338	2.04586	82.80852	161.8445
0.37405	0.94803	3918.815	3708.52	1.17718	0.01929	1.17718	3968.148	4679.656
0.33282	0.85824	1091.406	930.0768	1.28123	0.00965	1.28123	944.6587	1217.636
0.01676	0.78544	1272.585	997.6893	1.64735	2.08E-22	1.64735	972.6009	1602.678
3.41E-06	0.74986	2314.999	1734.86	-1.12884	0.17059	0.88586	1991.311	1759.865
0.32239	0.89147	6930.973	6197.139	1.25925	0.05001	1.25925	6349.938	8046.83
0.82544	1.02121	1613.011	1628.825	-1.09472	0.31401	0.91348	1570.654	1441.998
0.68001	0.97719	2312.29	2251.914	-1.04197	0.45889	0.95972	2112.346	2027.254
0.6407	1.07151	220.8498	237.6569	-1.03504	0.85163	0.96614	196.7155	189.7598
0.83724	1.02165	394.8486	404.8576	1.05056	0.75467	1.05056	339.8652	353.0104
1.73E-07	1.33654	3367.283	4510.248	1.48108	3.40E-07	1.48108	3826.716	5724.26
0.09709	0.75827	1199.233	903.9678	-1.0411	0.59009	0.96053	900.1531	866.7083
0.62186	1.06337	349.6087	369.1923	1.187	0.09051	1.187	346.4659	411.7657
0.56668	0.95366	3463.928	3314.662	1.05173	0.48028	1.05173	3365.815	3536.148
0.07163	0.80689	3724.165	2987.339	1.49555	2.84E-07	1.49555	3658.501	5485.243
0.21006	0.93013	5466.849	5091.916	1.71682	6.12E-21	1.71682	5419.459	9310.703
0.93575	0.98953	2047.173	1970.261	-1.12353	0.00914	0.89005	2555.315	2273.399
0.3734	1.06953	891.5989	950.5408	1.33667	0.00006	1.33667	893.8126	1192.235
0.4835	1.04661	1660.796	1732.053	1.00993	0.83131	1.00993	1725.753	1742.983
0.93675	0.94278	49.0108	45.95686	1.16356	0.88825	1.16356	34.63238	38.98363
0.24856	0.91069	1168.523	1061.853	1.15198	0.01844	1.15198	1094.656	1259.781
0.7925	1.02396	940.293	957.4978	-1.07065	0.40535	0.93401	1051.377	985.6387
0.13642	0.84204	1371.193	1144.421	1.05014	0.51104	1.05014	1303.772	1368.716
0.86755	0.87388	39.4861	34.29443	-1.13613	0.90429	0.88018	31.84822	34.14948
0.00189	1.53701	812.4406	1252.648	2.14855	3.46E-12	2.14855	714.7397	1544.096
0.85597	0.95923	150.7287	144.0107	-1.02758	0.92877	0.97316	123.1147	120.6835
0.93692	0.99491	938.3107	932.7224	-1.18443	0.10078	0.84429	825.1429	692.8875
0.29507	0.83373	290.4495	238.7384	-1.05014	0.80087	0.95225	215.6473	206.2921
0.97911	1.0039	238.8243	238.6805	-1.10488	0.57225	0.90507	209.9369	190.0903
0.89282	0.99288	2084.633	2067.522	1.00343	0.95554	1.00343	1957.047	1968.852
0.00982	0.56849	4018.763	2291.59	-1.96801	1.03E-10	0.50813	948.2158	483.1984
0.95806	0.98822	143.1529	141.5579	-1.22285	0.6715	0.81776	104.868	87.0089
0.00042	1.26857	8161.114	10304.95	-1.54063	0.00025	0.64908	14848.79	9484.418
0.12069	1.10898	4975.691	5544.727	-1.24917	0.00153	0.80053	5806.059	4605.979
0.1244	0.79627	3411.619	2725.277	-1.79865	4.61E-25	0.55597	3115.879	1730.23
0.22149	1.0844	6208.391	6732.811	-1.41144	0.00332	0.70849	5697.28	4036.493
0.61856	0.93348	443.7282	419.8193	-1.03107	0.8534	0.96986	349.705	336.7544
0.57015	1.06085	695.3367	734.273	1.29318	0.05651	1.29318	611.2135	785.3173
0.87102	0.97588	287.1759	277.4699	1.01977	0.89598	1.01977	223.7143	228.339
0.76926	1.15935	62.77861	72.64189	1.4049	0.49594	1.4049	62.03311	88.06903
0.75919	1.01496	1346.887	1366.652	1.15262	0.02136	1.15262	1400.491	1611.855
0.5271	0.94014	649.7141	614.1784	-1.12177	0.21609	0.89145	571.8488	510.9149
0.00018	0.63706	1000.195	638.1323	-1.36775	0.00034	0.73113	806.2127	587.6289
0.21762	0.8984	709.6365	634.9236	1.27658	0.00073	1.27658	580.088	739.8484
0.97192	1.00353	833.9791	829.3213	1.29728	2.55E-07	1.29728	1089.996	1413.521
0.18987	1.09158	1466.015	1595.968	1.09447	0.04044	1.09447	1665.799	1823.215
0.90201	1.0143	542.8132	555.4214	-1.0807	0.22539	0.92533	1281.786	1182.714
0.80498	1.01533	638.5781	648.4137	-1.01046	0.92165	0.98965	574.2913	567.0568
0.03984	0.79896	2016.176	1606.269	1.07456	0.37744	1.07456	1788.254	1924.193

0.00021	1.20871	1126.024	1361.089	1.69113	1.44E-10	1.69113	1043.872	1765.28
0.02604	1.11238	5494.819	6111.039	-1.58927	2.21E-12	0.62922	6219.356	3905.041
0.47628	0.93143	3419.836	3178.634	1.48142	3.74E-09	1.48142	3161.741	4688.076
0.00012	0.72784	1184.474	858.9287	-1.06779	0.40357	0.93652	898.5317	843.5901
0.58275	1.0235	4288.014	4388.274	1.04876	0.51614	1.04876	2579.249	2650.285
0.00116	0.72923	12609	9190.806	1.19158	0.0975	1.19158	12989.97	15456.02
0.00007	0.6842	1440.725	983.3723	1.37826	3.25E-07	1.37826	1112.707	1536.679
0.85594	1.03198	6754.246	6992.521	1.2029	0.22213	1.2029	6102.035	7263.57
0.32543	0.91194	913.2996	828.4223	1.00124	0.9824	1.00124	840.7063	841.8671
0.26866	0.89923	479.2481	431.6191	1.01969	0.83252	1.01969	703.1137	714.6248
0.92649	0.99212	478.8561	474.3527	-1.12999	0.18359	0.88496	498.8085	440.9489
0.98311	1.01707	49.76976	51.71991	1.06636	0.93696	1.06636	42.48394	45.73898
0.9675	0.99642	486.3083	486.1099	-1.05004	0.60204	0.95235	498.4752	473.657
0.31776	0.88578	628.8796	562.0466	1.18531	0.03083	1.18531	577.1559	684.9562
0.01757	0.67442	7181.695	4795.903	-2.07479	3.04E-08	0.48198	3303.496	1584.582
0.01575	1.21807	4712.399	5698.727	-1.77961	4.00E-06	0.56192	6446.084	3541.08
0.89539	1.08559	56.17242	63.29456	-1.03549	0.9761	0.96573	36.85691	33.87307
0.16419	1.06899	4419.62	4731.875	-1.07905	0.17419	0.92674	7272.674	6763.971
0.82242	0.97553	3154.451	3079.596	1.33901	6.21E-06	1.33901	2789.482	3736.255
0.54533	1.09688	3128.88	3420.931	-2.15389	1.22E-19	0.46428	3033.736	1405.675
0.00005	1.22668	1663.811	2044.327	-1.3461	0.00045	0.74289	2743.636	2028.654
0.4147	0.9237	649.5064	596.7848	-1.02144	0.76593	0.97901	563.2605	551.7028
0.09622	1.17447	632.0297	738.922	1.59538	2.57E-10	1.59538	556.5297	886.6354
0.3791	0.92914	1454.343	1350.179	1.41141	2.42E-08	1.41141	1270.006	1792.962
0.76636	0.96288	700.9822	682.1601	1.04401	0.63876	1.04401	644.946	671.2265
0.00001	0.79973	9445.264	7539.845	-1.77809	3.14E-07	0.5624	8487.436	4735.197
0.61581	0.91589	303.0017	272.7145	-1.08545	0.62348	0.92128	253.1316	234.3665
0.91625	0.92854	50.02379	47.88046	-1.05983	0.96473	0.94355	25.46659	30.42114
0.17214	0.80801	373.2081	297.1846	1.38044	0.00289	1.38044	327.8672	453.6901
0.64319	0.91208	155.3201	141.616	1.09578	0.76303	1.09578	147.0858	159.7859
0.08187	0.90214	2208.942	1995.416	-1.30402	0.00251	0.76686	1821.891	1398.027
0.66071	1.04631	370.9318	387.9912	1.03619	0.80878	1.03619	319.7215	330.4944
0.06284	0.72224	1212.286	865.8777	-1.15063	0.3244	0.86909	931.761	816.1987
0.32436	0.94787	1030.289	975.6585	-1.17397	0.00729	0.85181	882.8182	752.1519
0.83214	1.04327	181.1189	190.1339	-1.11497	0.52483	0.89689	240.1202	216.2961
0.02831	1.16829	2757.853	3169.242	1.03012	0.54064	1.03012	3845.301	3961.321
0.00825	1.12907	1542.376	1742.015	1.1513	0.03293	1.1513	2043.057	2353.931
0.7495	1.01845	3395.429	3464.34	1.18612	0.02204	1.18612	3067.091	3641.683
0.02987	0.89455	1547.068	1384.609	-1.1456	0.00956	0.8729	1384.429	1208.83
0.98602	0.99489	128.1583	127.1956	1.04462	0.86205	1.04462	179.2666	187.1852
0.03314	0.86336	614.1665	529.7918	-1.45535	0.0016	0.68712	525.7832	362.916
0.75458	0.97792	1720.956	1693.239	-1.21455	0.00254	0.82335	1737.549	1426.764
0.45239	1.04271	1223.099	1274.839	1.24954	0.00001	1.24954	1566.825	1957.289
0.01575	1.11929	1270.046	1421.537	-1.46413	0.00009	0.683	1778.358	1200.885
0.84003	0.99065	3571.162	3537.24	1.09116	0.11393	1.09116	3446.294	3759.236
0.96438	1.01078	114.9999	116.2292	-1.2181	0.5023	0.82095	137.6784	113.7954
0.43483	1.04213	1482.791	1542.737	1.02836	0.62466	1.02836	1614.333	1658.496
0.91539	1.00737	599.057	603.3455	1.1986	0.00619	1.1986	911.7343	1091.401
0.14632	0.79918	848.7709	667.997	1.91345	7.13E-06	1.91345	538.7837	1046.022
0.46603	1.05026	2623.171	2738.428	1.00888	0.8483	1.00888	2801.493	2828.194
0.39392	1.03625	4322.402	4478.537	-1.07536	0.14322	0.92992	4326.282	4027.68
0.24342	1.39769	129.9356	177.4522	1.81891	0.03736	1.81891	139.7875	251.0833

1	1	19.57279	23.44087	1	1	1	18.74939	31.18639
0.20151	1.07059	10612.61	11342.52	-1.0803	0.20369	0.92567	11081.69	10185.13
1	1	18.84712	24.38012	1	1	1	18.96738	34.07169
0.32306	1.07996	574.2028	618.8962	-1.03345	0.64491	0.96764	609.2155	589.7058
0.86235	1.01556	555.2454	565.7611	1.021	0.657	1.021	1260.678	1287.194
0.47554	0.92358	928.5505	863.1664	-1.02632	0.69738	0.97435	693.1411	675.0491
0.49406	1.05919	1525.752	1625.496	-1.30193	7.02E-06	0.76809	1524.245	1173.283
0.05784	0.78658	2711.654	2142.584	1.2082	0.00069	1.2082	2204.348	2666.379
0.83303	0.9859	967.1647	951.7157	1.04593	0.44415	1.04593	852.3595	891.0144
0.97562	0.99759	3144.432	3125.023	1.75894	9.41E-22	1.75894	3222.855	5675.518
0.14741	0.56498	114.2876	64.23138	-1.64751	0.42319	0.60698	73.77946	44.737
3.22E-06	0.71793	936.3648	671.6051	1.47023	0.00887	1.47023	768.0492	1123.835
0.00064	0.82245	868.5724	714.8426	1.00436	0.95197	1.00436	817.1934	820.8257
0.90521	1.00823	2459.629	2494.425	-1.09013	0.18265	0.91733	2517.389	2312.897
0.00116	0.69613	7056.938	4892.972	1.21731	0.00017	1.21731	5223	6356.452
0.00034	1.20021	26249.01	31515.43	-1.37805	1.61E-10	0.72566	27045.36	19638.02
0.79593	1.01692	1848.021	1880.558	-1.14947	0.00498	0.86997	1621.869	1410.588
0.91082	0.98783	443.6116	440.4482	-1.08211	0.4999	0.92412	412.8298	380.0687
0.15232	1.12252	783.2665	879.2498	1.63145	6.55E-14	1.63145	1165.171	1899.336
0.44638	1.05109	1251.212	1317.076	1.09002	0.10626	1.09002	1440.34	1569.67
0.27917	0.94723	2293.314	2170.723	1.31032	1.57E-08	1.31032	2309.294	3028.278
0.94628	1.092	23.49123	27.95401	1.13605	0.90732	1.13605	25.54516	37.20053
0.53098	0.9172	428.5767	396.2889	-1.16359	0.23519	0.85941	397.1359	343.1655
0.45453	1.0408	988.5082	1028.035	-1.06595	0.45567	0.93813	1005.951	941.4595
0.07646	1.19193	13511.54	16128.55	-1.13504	0.26514	0.88103	14155.31	12471.21
0.96763	0.99689	4737.111	4730.616	1.09155	0.30848	1.09155	4234.011	4611.228
0.00523	1.13756	1627.519	1851.426	2.74207	9.63E-18	2.74207	1598.711	4407.087
0.13771	1.14845	1019.064	1172.657	-1.31391	6.47E-06	0.76109	1087.307	827.8691
0.47778	1.12572	164.5839	185.2042	1.33103	0.13694	1.33103	196.3287	259.122
0.03848	1.1147	2874.609	3210.422	1.02969	0.6903	1.02969	3483.8	3582.531
0.07614	1.10473	1473.269	1624.513	1.18212	0.00074	1.18212	1655.512	1956.141
0.0001	0.69318	20894.79	14571.53	-1.15509	0.00603	0.86574	17729.94	15346.04
0.22008	1.06573	1284.026	1366.511	1.02168	0.64921	1.02168	1412.197	1443.003
0.61246	0.88191	787.3183	707.7341	-3.91744	2.48E-17	0.25527	506.8568	130.0251
0.66286	1.03337	1997.12	2057.498	-1.04363	0.54455	0.9582	2264.571	2176.835
0.54269	1.03907	586.5171	609.1878	1.10717	0.14249	1.10717	577.5752	639.1163
0.83745	0.983	1204.592	1191.811	-1.07824	0.36035	0.92744	1171.443	1082.844
0.08115	0.86567	1529.683	1323.722	-1.20812	0.14935	0.82773	1524.049	1250.189
0.0131	0.669	308.8384	204.5778	-1.16251	0.38165	0.86021	240.5927	207.4329
0.16131	0.84765	1247.124	1054.478	2.38398	8.65E-08	2.38398	1260.553	3030.644
0.00001	2.03286	498.6644	1013.499	2.95379	6.85E-35	2.95379	446.855	1323.254
0.4569	0.88291	285.8439	256.0984	-1.43034	0.15947	0.69913	245.0385	171.2749
0.00004	0.79717	1701.699	1354.202	-1.0618	0.28869	0.94179	1460.147	1373.704
0.67618	1.03683	409.6765	424.4674	1.15643	0.17316	1.15643	378.7244	439.1545
0.00023	0.82732	1395.241	1154.463	1.28483	0.00544	1.28483	1468.098	1887.36
0.41715	0.82937	150.4106	124.32	2.52652	5.60E-08	2.52652	117.7188	297.1984
0.87161	1.01606	385.63	391.3287	1.09691	0.36058	1.09691	371.396	406.7767
0.8953	0.96213	142.2801	135.6313	1.21628	0.62676	1.21628	96.75319	118.5542
0.75343	0.97963	792.5767	777.9691	-1.13696	0.13744	0.87953	862.5575	755.9981
0.11408	1.08548	1177.029	1276.557	1.09911	0.17255	1.09911	1204.271	1319.908
0.51641	0.94929	4013.421	3801.456	1.2111	0.00002	1.2111	3708.354	4491.554
0.08914	0.79051	9554.42	7530.764	1.12321	0.31148	1.12321	7452.124	8382.367

0.18327	0.85083	444.6478	375.0535	1.08317	0.32082	1.08317	645.4826	697.8735
0.32899	0.78182	156.5991	123.6456	-1.1253	0.68428	0.88865	144.8378	127.4825
0.76745	0.78304	54.7523	40.49638	-1.05722	0.95554	0.94588	37.55254	39.19078
0.00738	1.15922	778.8109	903.2358	1.07878	0.17556	1.07878	918.9928	990.9283
0.96396	1.00787	1037.97	1058.85	-1.50098	1.78E-06	0.66623	867.0107	576.1317
0.92196	1.02952	168.8942	167.4874	-1.0825	0.72915	0.92379	172.9092	160.1932
0.93911	1.01222	228.6092	232.9676	1.03382	0.86144	1.03382	191.5767	197.2885
0.35225	0.94749	7114.714	6751.137	1.08552	0.04273	1.08552	6794.584	7375.83
0.46421	1.04225	8177.281	8535.419	1.00565	0.93344	1.00565	8247.09	8297.499
0.04249	0.66121	1081.233	693.955	-1.02745	0.88882	0.97328	853.6661	840.464
0.00115	0.82477	16798.18	13862.23	-1.03254	0.55128	0.96849	16354.62	15823.85
0.20022	0.91193	1364.378	1246.412	-1.22488	0.00033	0.81641	2328.4	1898.875
0.42268	0.91324	340.8782	310.3729	1.21514	0.18957	1.21514	298.4946	360.6695
0.7305	0.97511	1258.72	1228.788	1.73919	1.25E-07	1.73919	1149.228	1999.727
0.10434	1.11768	1177.643	1314.832	-1.10737	0.05838	0.90304	1863.265	1684.334
0.10887	1.08754	932.3698	1014.44	-1.19445	0.00347	0.83721	1050.009	878.0955
0.33356	0.90848	2796.646	2520.875	1.20401	0.02284	1.20401	2664.28	3222.226
0.88572	1.01448	9119.252	9266.35	-1.57156	2.79E-10	0.63631	10828.5	6883.646
0.97416	0.99631	429.8029	425.8278	1.11259	0.46058	1.11259	396.5643	442.8098
0.51106	1.05524	1018.631	1071.281	1.16981	0.02757	1.16981	856.5416	1004.363
0.98949	0.99812	1039.412	1055.058	-1.44236	0.00013	0.69331	835.8202	577.4081
0.90667	0.98894	697.5982	693.9746	-1.00421	0.96537	0.99581	735.1697	729.037
0.12683	0.92818	1535.833	1425.149	-1.27087	0.00075	0.78686	1407.409	1104.489
0.24564	0.93548	16096.04	15085.45	1.58369	1.92E-22	1.58369	16701.82	26450.88
0.00634	1.21795	2558.489	3117.347	-1.32231	0.00525	0.75625	3662.919	2749.256
0.62006	0.97451	9129.576	8916.15	-1.09801	0.22808	0.91074	9048.096	8163.533
0.26582	1.08223	948.0607	1030.939	-1.02943	0.66231	0.97141	1561.415	1515.554
0.44114	0.93437	443.2325	415.0519	-1.11785	0.38735	0.89458	413.5869	371.6865
0.27381	1.08879	712.5618	774.4111	1.248	0.02915	1.248	759.7166	944.2573
8.04E-09	0.60658	644.0704	389.8079	-1.19451	0.11578	0.83716	495.2133	412.6085
0.00224	0.8711	2613.224	2276.209	1.22451	0.00001	1.22451	2546.247	3117.369
0.78379	0.97234	4424.271	4324.774	1.4598	4.46E-10	1.4598	3720.526	5434.539
0.76859	1.01966	876.4326	891.3633	1.14212	0.01871	1.14212	922.2253	1052.614
0.41918	0.80585	19955.65	15255.17	-4.5342	8.72E-41	0.22055	13542.8	2957.948
0.01135	1.16624	10208.69	11904.72	1.05858	0.23362	1.05858	11292.95	11947.18
0.08024	1.11674	5108.496	5715.912	1.16479	0.00764	1.16479	3352.387	3865.13
0.00111	0.66511	2367.026	1564.364	1.08986	0.34292	1.08986	1872.229	2051.358
0.38818	0.80285	2514.862	1912.323	-6.68511	0	0.14959	2439.996	364.168
6.15E-27	0.60685	7326.865	4446.785	-1.24431	0.00072	0.80366	5789.638	4654.193
0.30182	1.07932	703.2673	761.2734	-1.6897	5.75E-08	0.59182	641.6248	380.6526
0.92706	0.95484	63.94622	61.07289	-1.00432	0.99398	0.9957	58.18903	57.89456
0.57528	0.88655	374.0468	320.1113	1.35261	0.07518	1.35261	319.9898	440.0106
1	1	17.28585	23.02737	1	1	1	18.20219	30.62347
0.66187	1.0271	6200.649	6352.195	1.47539	1.43E-07	1.47539	5766.115	8523.062
0.42023	1.19642	159.5883	188.4303	1.41777	0.02189	1.41777	172.7234	244.8507
0.37614	0.87947	432.3943	375.1171	1.25797	0.01551	1.25797	339.3246	427.0936
0.11031	0.89447	772.3988	689.8812	1.10856	0.18427	1.10856	689.0504	765.3135
0.34784	1.21652	157.9152	191.7289	1.03431	0.80747	1.03431	283.8663	293.4878
0.38461	0.91425	10101.4	9230.951	1.16959	0.05172	1.16959	9491.01	11105
0.71424	1.01752	1210.475	1231.623	-1.10138	0.31338	0.90795	1194.184	1074.897
0.00004	1.24691	15557.91	19425.07	3.57104	1.16E-27	3.57104	15472.35	55895.42
0.27409	1.29457	4474.102	5554.904	-3.622	1.45E-11	0.27609	7342.327	1957.485

0.27409	1.102	730.0086	800.1382	1.08502	0.26364	1.08502	771.5129	835.594
0.94996	1.0127	142.9872	144.6031	-1.14117	0.60518	0.87629	138.9524	121.5491
0.46268	1.07457	544.8633	582.6197	1.36789	0.00136	1.36789	627.7228	856.1444
0.15971	0.76958	417.6175	312.5054	-1.05973	0.69287	0.94364	331.1386	313.4159
0.42088	0.76271	141.4188	111.421	1.06209	0.7737	1.06209	152.4361	161.735
0.00064	0.69803	7257.907	5094.732	1.05546	0.53628	1.05546	6226.887	6597.461
0.91421	1.1501	27.90576	33.1352	1.17931	0.73971	1.17931	60.42486	71.58916
0.53396	0.95904	1061.196	1015.417	1.62519	1.26E-17	1.62519	923.07	1499.016
0.01235	0.72598	336.4863	245.4222	-1.34554	0.13424	0.74319	260.0483	195.114
0.54664	1.04194	2832.757	2949.056	-1.02024	0.71119	0.98017	2515.499	2467.703
0.00098	0.75714	783.3865	590.7379	-1.04341	0.56267	0.9584	586.1702	561.3593
0.65054	1.02477	3271.039	3360.364	-1.03165	0.64989	0.96932	3620.365	3501.468
0.97436	0.97004	45.50114	43.59596	2.20592	0.27739	2.20592	39.45759	85.47627
0.67995	0.98228	3006.77	2951.861	-1.07126	0.17215	0.93348	2807.055	2627.195
0.36043	1.08029	619.4687	671.7384	-1.05979	0.64034	0.94359	596.0961	558.1019
0.21219	0.94788	148401.2	140712.7	-1.06044	0.27431	0.943	184536.3	173958.9
0.71532	0.94122	289.4269	274.5301	-1.08354	0.61849	0.9229	287.9028	267.6787
0.94715	0.98982	241.8793	237.9695	1.07397	0.65752	1.07397	244.371	263.5585
0.24962	1.09941	2588.195	2858.424	1.53167	4.60E-11	1.53167	2735.074	4183.338
0.97259	0.99343	949.9833	958.3091	-2.3153	0.00008	0.43191	695.1821	300.2559
0.0017	0.73567	1957.302	1431.825	-1.01805	0.74432	0.98227	1656.867	1628.701
0.09513	0.82068	9261.703	7671.32	-1.04723	0.68817	0.9549	8731.223	8341.465
0.64685	0.94712	313.2719	297.6928	1.18655	0.20843	1.18655	266.7925	315.581
0.03215	0.88227	5958.331	5212.458	-1.42813	2.16E-14	0.70021	3697.635	2588.622
0.05266	1.1908	595.6294	706.8688	1.4072	0.00017	1.4072	786.9232	1104.479
0.81354	1.02304	558.6162	573.5563	-1.11798	0.33404	0.89447	528.442	469.6074
0.84118	1.01894	1743.837	1784.169	-1.41614	0.00005	0.70614	1683.402	1194.273
0.56776	1.06164	380.4623	405.6711	-1.11991	0.19828	0.89293	471.4031	420.6689
0.72108	0.9277	170.2139	156.9777	-1.20598	0.33818	0.8292	198.64	164.7255
0.047	0.86651	608.7202	526.8501	1.28344	0.08077	1.28344	470.1209	600.815
0.53466	0.93007	719.2317	674.7017	-1.07615	0.28541	0.92924	634.8796	590.2012
0.98753	1.00158	880.2968	887.203	-1.0424	0.54689	0.95933	840.7992	805.6377
0.63453	0.9494	448.2824	426.6191	-1.2234	0.17873	0.81739	432.5854	353.873
0.37462	1.05213	1588.258	1672.969	1.0958	0.57417	1.0958	1489.135	1637.594
0.06676	1.1494	579.3293	664.3178	1.13872	0.10336	1.13872	692.1764	790.1798
0.23516	1.09157	3109.742	3409.943	1.43207	1.38E-14	1.43207	2899.615	4152.234
0.63791	0.9641	4551.061	4411.242	1.34709	2.26E-07	1.34709	3808.199	5127.598
0.72047	1.10358	150.6294	170.5669	-1.0732	0.71769	0.9318	272.5741	254.0877
0.77645	0.96091	546.4378	518.0586	1.33362	0.00024	1.33362	488.6078	652.3782
3.96E-07	0.63067	2775.297	1746.673	-1.1408	0.1027	0.87658	2305.854	2023.193
0.37997	1.05917	1662.307	1764.069	1.13708	0.04333	1.13708	1671.646	1896.469
0.12737	0.33015	71.90411	23.58319	1.42421	0.67855	1.42421	50.69082	68.34885
0.97159	0.99597	273.1061	271.852	-1.09107	0.59992	0.91653	245.3805	223.9785
0.10671	0.89878	2786.478	2507.98	2.35979	3.82E-19	2.35979	2453.894	5812.744
0.95228	1.08348	25.7115	30.1565	1.05782	0.96609	1.05782	22.26295	32.68107
0.06339	0.85785	3488.714	2987.225	1.14409	0.04431	1.14409	3114.467	3571.423
0.00164	0.73911	2579.939	1902.832	-1.12508	0.36458	0.88883	2288.605	2026.853
0.56097	0.86018	306.7817	267.7842	-1.61185	0.03818	0.62041	227.1621	142.2235
0.25565	1.08078	708.7468	767.5645	-1.02829	0.70676	0.97249	804.6603	781.6777
0.58362	1.1067	225.0718	252.9824	-1.2624	0.22232	0.79214	315.053	252.4122
0.07649	1.10846	824.4391	914.9282	1.00043	0.99595	1.00043	860.2733	858.4935
0.52983	0.87631	274.4253	234.4004	-1.11637	0.50262	0.89576	250.7106	223.9066

0.0926	0.73343	221.3544	161.4753	-1.07042	0.72336	0.93421	183.7371	171.4255
0.40797	0.92869	1659.004	1546.062	2.3792	8.00E-36	2.3792	1542.128	3674.286
0.7459	0.98445	2588.277	2551.462	-1.09585	0.07565	0.91254	2578.084	2348.874
0.08066	0.73367	673.8599	483.2843	1.03379	0.76978	1.03379	515.736	535.4061
0.54425	1.07351	680.5897	735.8271	-1.10915	0.15443	0.90159	707.8737	637.3442
0.20057	1.07204	1055.198	1129.853	-1.01827	0.74077	0.98206	1078.295	1059.617
0.73099	1.0284	1812.591	1854.214	-1.05152	0.47472	0.951	2035.673	1942.024
0.97007	0.99731	524.9919	524.2179	1.06052	0.61377	1.06052	471.1428	497.8861
0.61823	1.04069	4528.898	4677.788	-1.03677	0.58172	0.96453	4825.475	4671.737
0.85927	1.04237	145.3028	151.4727	-1.02549	0.9177	0.97514	133.4847	130.2781
0.12001	1.16981	297.1428	347.8316	1.28234	0.00048	1.28234	682.0059	876.0073
0.14122	0.87231	1099.438	953.2789	-1.05643	0.52362	0.94659	1119.496	1061.654
0.30382	1.0604	1344.077	1426.274	2.57831	0	2.57831	1245.602	3210.179
0.23969	1.10106	1037.21	1138.146	1.01035	0.86175	1.01035	1203.338	1213.671
0.43873	0.94962	1368.352	1295.972	1.02802	0.57447	1.02802	1341.077	1379.151
0.6986	1.01798	3033.811	3085.698	-1.06713	0.20533	0.93709	3276.745	3067.853
0.30579	1.07147	1109.693	1194.138	-1.01399	0.81764	0.9862	1183.627	1165.882
0.00624	0.64343	844.5331	532.4099	-1.22752	0.0707	0.81465	648.4137	530.9467
0.37699	0.90878	7172.075	6480.585	1.16937	0.11416	1.16937	6393.795	7487.522
0.70239	1.0314	2438.449	2519.557	-1.1902	0.00558	0.8402	2706.84	2265.291
0.14968	1.10167	836.9891	919.9409	1.15941	0.02408	1.15941	1041.167	1210.051
0.00801	0.85977	14050.34	12091.58	-1.31438	5.81E-07	0.76082	15028.5	11432.02
0.63237	0.89666	170.3622	152.955	-1.41172	0.24121	0.70836	128.6706	91.19398
0.00006	0.62171	5673.836	3511.638	1.06629	0.38237	1.06629	5254.367	5586.242
0.49549	1.0597	630.9365	665.8209	1.05734	0.51443	1.05734	559.8402	593.2306
0.25574	1.10897	24690.18	27180.14	1.56817	0.00172	1.56817	29578.09	47240.28
0.65708	1.06999	364.4086	387.4497	1.00459	0.96225	1.00459	413.1575	415.706
0.81218	1.01512	1398.868	1424.827	-1.12064	0.11446	0.89235	1412.461	1256.948
0.11154	0.48369	204.9	87.59445	-1.99195	0.21752	0.50202	121.2722	59.53236
0.84949	1.01573	2664.034	2716.523	-1.34374	1.52E-07	0.74419	2847.958	2117.217
0.99164	0.99933	1488.39	1487.006	1.25566	0.01492	1.25566	1351.165	1710.531
0.14989	1.24499	181.2924	225.7046	1.10047	0.86283	1.10047	183.1487	177.306
0.77858	0.97412	1427.703	1384.151	1.62618	0.00108	1.62618	1281.556	2095.594
0.8011	1.03823	493.1638	504.0691	1.62016	6.50E-08	1.62016	442.2664	714.9514
0.21342	0.84476	326.6285	277.9366	-1.31356	0.18396	0.76129	238.976	183.46
0.99948	0.99983	163.5295	167.3829	1.62198	0.11543	1.62198	157.588	246.9398
0.45456	1.06594	717.8582	767.7378	-1.15473	0.12163	0.866	540.8301	469.4583
0.01816	1.23421	575.8147	708.1976	1.8885	3.28E-15	1.8885	557.5859	1051.082
0.64213	1.05201	492.0981	521.4353	-1.24438	0.04597	0.80361	544.8778	436.4186
0.51786	0.96573	2686.048	2590.882	1.16731	0.02238	1.16731	2697.783	3154.628
0.94508	0.97002	110.5265	112.1338	1.06894	0.82864	1.06894	126.9849	137.1277
0.00162	0.85226	4373.506	3725.405	-1.028	0.76409	0.97276	3434.098	3338.454
0.92996	1.0077	760.5432	763.045	1.04933	0.45856	1.04933	750.3012	788.0692
0.92977	0.98312	223.1215	219.5664	-1.05345	0.77821	0.94927	186.493	177.1719
0.12943	1.13632	847.2502	958.9629	1.35789	0.00147	1.35789	793.3069	1080.939
0.24775	1.14159	440.447	498.7386	1.1951	0.09129	1.1951	398.9091	478.2863
0.374	1.10048	833.7799	915.6443	1.53326	1.77E-10	1.53326	710.7136	1088.748
0.96736	1.00218	791.0051	792.6233	-1.11284	0.1987	0.8986	742.3828	668.7084
0.45346	1.04655	1142.022	1191.28	-1.12874	0.0466	0.88594	1148.571	1016.039
1.61E-06	1.26704	1233.872	1563.249	1.32918	3.41E-06	1.32918	1359.858	1814.914
0.97194	1.00346	313.9954	314.8484	-1.00494	0.9785	0.99508	273.6059	273.2047
0.96402	0.97062	47.66219	45.84329	2.64606	0.17288	2.64606	37.62696	101.522

0.0952	1.1419	1300.601	1477.241	1.29654	1.74E-07	1.29654	1264.323	1638.394
0.00169	0.80772	82759.34	66811.94	1.40341	0.00009	1.40341	93512.91	132126.7
0.06324	0.85928	546.852	468.786	1.58551	1.19E-07	1.58551	461.3611	733.2345
0.03153	1.15204	4334.155	5014.873	1.0336	0.5733	1.0336	4672.09	4820.735
0.00007	0.67647	37593.94	25339.89	-1.70237	1.51E-06	0.58742	35780.36	20782.5
0.51265	0.95714	808.658	772.8944	-1.36809	0.00062	0.73095	648.0907	474.9229
0.19993	1.54924	82.49423	128.7973	2.37904	0.03508	2.37904	68.00974	162.5796
0.00003	0.65829	1633.648	1066.442	1.03179	0.56598	1.03179	1156.235	1193.938
0.64367	1.05607	447.4697	469.6809	-1.10471	0.25185	0.90521	491.645	445.5558
0.9025	0.98431	245.17	241.7769	1.02386	0.90107	1.02386	227.081	230.574
0.45538	1.05245	1550.696	1647.445	1.00051	0.99185	1.00051	4298.496	4300.419
0.61181	0.96634	548.729	530.3962	-1.06295	0.48697	0.94078	577.3812	541.9375
0.60225	0.95746	515.6228	492.4899	-1.1043	0.36742	0.90555	399.3406	362.5676
0.0966	1.13993	5050.164	5797.793	1.39765	2.85E-06	1.39765	4824.026	6739.588
0.00007	0.69132	9759.506	6739.166	-1.15199	0.01549	0.86807	7932.306	6891.289
5.38E-16	0.56312	1481.505	834.4498	-1.20599	0.00078	0.82919	1174.221	973.0606
0.071	0.89342	2840.424	2527.932	1.13174	0.00939	1.13174	2351.757	2663.688
0.14555	1.08211	1172.904	1271.076	1.04863	0.48209	1.04863	1275.758	1334.776
0.00142	1.25366	887.4143	1111.774	3.9956	0	3.9956	818.39	3269.808
0.00017	0.73179	2851.24	2087.315	1.23615	2.18E-06	1.23615	2084.396	2577.305
0.81201	1.01901	587.0526	597.0452	-1.06868	0.33405	0.93574	626.5143	586.2036
0.87936	1.01042	2102.715	2131.522	-1.06206	0.47537	0.94156	2157.04	2035.872
0.61413	1.05669	391.8788	414.3732	-1.02452	0.75359	0.97606	773.8898	756.8762
0.97299	1.02601	35.03607	36.05332	-1.01239	0.99055	0.98776	31.05064	36.23033
0.09063	0.8984	1241.416	1112.603	-1.05179	0.32429	0.95076	1238.847	1178.242
0.00502	0.83937	1927.164	1618.553	1.07526	0.22925	1.07526	1702.791	1829.146
0.91383	0.97329	139.3262	134.9558	-1.03123	0.91292	0.96971	150.589	147.8934
0.78516	0.98312	4578.639	4523.186	-1.00264	0.96829	0.99737	4700.709	4688.589
0.15899	1.07835	854.9092	921.8522	-1.34056	0.00111	0.74595	760.7353	565.8485
0.1097	1.07759	5115.246	5513.921	-1.30187	6.41E-06	0.76813	4482.314	3451.683
0.02549	0.8395	1583.149	1327.646	1.11328	0.36094	1.11328	1351.526	1497.157
0.19444	0.78336	1307.298	1001.815	1.07899	0.60586	1.07899	1047.374	1140.862
0.88283	1.01216	6061.682	6182.295	-1.24582	7.56E-06	0.80268	5890.651	4734.325
0.80115	1.05847	142.3502	149.7708	1.48328	0.16424	1.48328	132.4838	193.9825
0.78819	1.13408	76.90198	87.39122	1.04197	0.907	1.04197	92.74639	96.31017
0.00001	0.64147	1561.454	1000.929	-1.08589	0.35536	0.9209	1240.432	1147.445
0.01607	1.14056	729.8583	832.1832	1.0578	0.40513	1.0578	858.5317	909.5386
0.00261	0.6617	1537.628	1008.471	1.38454	0.00004	1.38454	1064.693	1478.651
0.01011	1.13782	973.8952	1108.447	1.04398	0.4246	1.04398	1069.704	1117.391
0.07458	1.14956	414.0819	475.5649	1.09378	0.34837	1.09378	366.5902	401.1466
0.11074	1.11761	986.369	1098.996	1.002	0.96886	1.002	1123.7	1126.311
0.97487	1.00472	252.9468	252.4142	1.24819	0.08763	1.24819	240.4273	299.8604
0.11188	1.07503	1343.214	1444.048	-1.11922	0.06217	0.89348	1372.427	1226.12
0.07563	0.85112	1876.62	1591.116	1.14602	0.00519	1.14602	1770.388	2028.408
0.64976	1.03102	907.5016	938.4208	-1.12988	0.23307	0.88505	1027.081	903.4164
0.32133	1.05862	2854.614	3031.28	1.03207	0.51859	1.03207	3022.206	3120.048
0.90896	0.99494	3201.17	3185.29	1.2264	0.00002	1.2264	3342.378	4098.835
0.54833	0.91492	357.9133	332.3666	1.40956	0.28817	1.40956	320.0018	438.3824
0.03001	0.86708	5368.231	4652.603	-2.01769	7.43E-15	0.49562	4793.97	2365.887
0.81019	1.0425	188.9641	197.8968	-1.2764	0.11346	0.78346	267.7913	209.7082
0.00108	0.69118	1405.63	962.4413	-1.06401	0.56292	0.93984	1120.86	1057.487
0.59211	1.0945	438.8217	471.4398	2.16002	3.54E-09	2.16002	366.1257	797.757

0.01886	0.76107	1501.137	1140.119	1.17086	0.04495	1.17086	1222.634	1435.306
0.97158	1.04778	28.04871	31.14582	1	1	1	21.34324	30.68466
0.96323	0.98742	159.3302	161.7078	1.03026	0.81518	1.03026	309.3679	319.6471
0.62142	1.04017	7677.615	7972.693	1.0415	0.59085	1.0415	7867.696	8223.804
0.91249	1.02944	207.7086	219.48	-1.53366	0.46689	0.65203	101.0392	70.17746
0.00529	0.71801	930.5787	662.7098	-1.07098	0.34844	0.93372	780.5753	729.9704
0.45175	1.03673	5774.065	5993.464	-1.07252	0.1649	0.93239	5919.489	5514.21
0.82397	0.94032	150.8501	138.9945	1.78606	0.02398	1.78606	132.6886	236.5765
0.76681	1.03023	388.8403	400.816	-1.0361	0.60569	0.96516	1065.934	1026.2
0.35209	0.92652	1417.959	1312.365	1.10371	0.20545	1.10371	1227.711	1354.203
0.78924	0.94735	165.5306	156.064	-1.12693	0.60271	0.88737	170.202	150.735
0.40564	0.76162	162.094	128.6868	-1.21141	0.56649	0.82548	121.8874	99.87193
0.03783	1.16227	8794.346	10193.93	-1.08145	0.52341	0.92469	8216.872	7643.023
0.42645	0.94486	149361.5	140849.2	-3.67128	2.29E-39	0.27238	160248.1	43573.21
0.12689	1.06948	2297.478	2456.649	1.07744	0.22357	1.07744	2885.416	3109.43
0.00581	0.83022	766.2294	637.1328	-1.19563	0.02255	0.83638	714.2366	596.2321
0.66515	0.9782	2980.073	2920.551	-1.05771	0.24909	0.94544	3094.349	2927.881
0.94035	0.99148	4090.653	4106.328	-1.29549	0.00123	0.77191	4297.164	3310.597
0.51377	0.9102	1470.165	1325.265	1.13427	0.32157	1.13427	1236.354	1409.86
0.81213	0.98056	427.4027	418.9241	-1.10494	0.30156	0.90503	447.6081	405.0278
0.02823	0.77149	1818.573	1395.595	1.20994	0.04031	1.20994	1476.813	1797.332
0.1364	1.16492	432.3802	501.064	1.52673	1.83E-07	1.52673	458.0955	699.1605
0.00009	1.4632	1334.086	1962.093	3.0544	1.31E-34	3.0544	1326.867	4049.863
0.36197	0.86916	235.7211	203.977	1.39228	0.2999	1.39228	172.7251	233.0015
0.10845	1.11254	1917.061	2124.749	-1.06119	0.22849	0.94234	2654.043	2498.539
0.46678	1.07078	524.8238	561.9517	-1.18019	0.2719	0.84732	515.2222	441.454
0.00122	0.51924	1281.953	643.0992	-1.30576	0.07683	0.76584	831.0388	640.6909
0.73517	0.97239	3214.381	3115.542	-2.20759	8.64E-30	0.45298	3554.008	1611.165
0.0012	0.73407	542.537	396.8607	1.2261	0.0308	1.2261	502.6962	614.9895
0.425	1.07511	2609.937	2815.598	-1.21959	0.00496	0.81995	2364.023	1939.027
0.2477	1.19608	268.2282	317.4764	3.12441	6.01E-20	3.12441	250.1079	778.1137
0.55797	1.06682	2930.852	3138.968	1.35559	0.00029	1.35559	2865.035	3890.337
0.70852	1.02697	1803.219	1860.697	-1.01888	0.79814	0.98147	1909.615	1877.765
0.16013	1.09818	1148.782	1268.911	-1.05844	0.34289	0.94478	1389.597	1310.332
0.00092	0.77847	3108.873	2420.735	1.13303	0.10379	1.13303	3152.391	3572.921
0.01004	0.79525	1331.155	1054.393	-1.16449	0.00813	0.85875	1036.628	889.8934
0.03237	0.73492	1312.65	958.1768	1.14499	0.14078	1.14499	1089.222	1251.373
0.94302	1.00842	9195.9	9346.533	-1.25181	0.00025	0.79884	8235.482	6557.001
0.9318	0.98575	211.5876	207.363	-1.08385	0.67639	0.92264	222.6628	206.8961
0.82863	1.14225	51.8912	58.26463	-1.14471	0.83263	0.87359	60.71864	52.41705
0.88992	1.00569	3774.826	3796.123	-1.03062	0.60496	0.97029	4085.702	3951.565
0.00007	0.81734	3030.628	2478.419	2.97226	0	2.97226	2581.872	7670.83
0.02213	0.74551	1773.616	1318.098	1.33165	0.00936	1.33165	1561.188	2092.924
1	1	17.85964	22.57056	1	1	1	17.75232	30.32642
0.9925	0.99858	429.8407	422.2698	1.01367	0.89023	1.01367	399.2901	405.3682
0.5472	0.60807	53.89342	32.85732	-1.14334	0.8863	0.87463	45.55437	44.35593
0.88053	1.03218	273.5344	293.87	-1.971	0.00001	0.50736	391.1385	197.2765
0.00035	0.73535	7517.98	5517.961	1.18636	0.09212	1.18636	6510.567	7731.931
1	1	18.54143	24.28386	1	1	1	18.46552	30.18679
0.38322	0.95601	1840.638	1759.522	1.46676	1.70E-06	1.46676	1711.886	2512.902
0.98252	1.00366	210.7106	212.7459	1.07165	0.76773	1.07165	203.6722	216.0964
1	1	17.96061	22.90888	1	1	1	18.85571	33.18755

5.58E-10	0.60301	3033.644	1829.735	2.29159	3.16E-36	2.29159	1955.117	4495.065
0.07772	1.09874	5947.651	6526.566	-1.0875	0.11757	0.91954	6607.317	6068.751
0.30503	0.95097	64310.88	61103.6	-1.32293	1.87E-09	0.7559	71845.8	54316.29
0.03396	1.11862	6888.02	7735.505	1.02754	0.63939	1.02754	7248.535	7426.444
0.79284	0.98067	910.855	896.963	-1.10465	0.04182	0.90526	1749.389	1583.475
0.04905	0.88355	1941.673	1714.091	1.0006	0.9894	1.0006	1603.16	1604.159
0.66295	0.95641	345.9572	330.9436	-1.15686	0.41513	0.86441	264.5235	230.5646
0.84251	0.98137	779.0353	768.2146	-1.98649	6.00E-11	0.5034	699.668	353.4208
0.65028	0.86634	186.2035	168.8384	-1.78839	0.24061	0.55916	129.2285	69.62762
0.91051	0.95076	78.33189	73.59968	-1.34183	0.53043	0.74525	115.7911	87.82039
0.98758	1.00138	8031.5	8072.345	1.28071	3.44E-09	1.28071	7425.075	9509.14
0.96655	0.99656	545.3074	544.178	-1.02074	0.83435	0.97968	450.3376	440.6613
0.16548	1.07908	777.3956	838.532	1.00938	0.89605	1.00938	687.9452	693.6528
0.62033	0.90707	200.5934	183.7989	1.02515	0.9011	1.02515	164.6604	168.5723
0.51984	0.91038	437.2247	404.0266	1.00971	0.9354	1.00971	382.4652	384.6762
0.5566	0.91885	780.0911	726.6371	1.08193	0.39	1.08193	604.9271	652.4446
0.42476	0.90837	1572.104	1446.256	-1.25512	0.00202	0.79674	1399.323	1109.096
0.22417	1.19717	214.7683	258.3587	-1.00405	0.98122	0.99596	240.398	238.0609
0.47321	1.08099	391.4181	420.8519	1.15153	0.06324	1.15153	450.3843	518.546
0.81807	1.02365	914.45	941.806	1.55306	7.49E-08	1.55306	763.3813	1184.529
0.00116	0.76227	1206.953	920.8508	-1.01565	0.80186	0.98459	1233.28	1214.506
0.6886	1.02859	1401.363	1448.559	1.019	0.81822	1.019	1479.456	1503.143
0.16173	1.09774	5545.575	6079.1	-1.26034	6.35E-06	0.79344	6317.321	5022.115
0.08046	1.13904	584.2186	667.1003	1.00034	0.99724	1.00034	651.6036	649.476
0.02332	1.10118	3977.097	4380.721	-1.06982	0.24396	0.93474	6204.812	5814.401
0.00088	1.18886	1147.092	1363.682	-1.68811	1.59E-17	0.59238	1485.214	878.8958
0.06416	0.78131	6312.531	4902.217	1.14376	0.30243	1.14376	5545.21	6352.602
0.04965	1.12816	742.5391	836.5581	1.05273	0.3695	1.05273	827.5574	871.0976
0.16629	0.64711	150.9686	95.89204	-1.23461	0.5322	0.80997	137.7353	113.407
0.98235	0.99797	334.4886	334.0025	-1.27303	0.19527	0.78552	307.1538	238.6805
0.61117	0.93785	271.7646	254.3014	-1.04447	0.81974	0.95743	254.2412	243.7183
0.41523	0.86769	353.8009	314.2491	1.22031	0.1162	1.22031	286.5434	350.3264
0.30441	0.93114	743.5007	693.1162	-1.53114	0.00043	0.65311	589.0397	387.3951
0.0077	0.7488	463.5969	345.3452	1.06205	0.67704	1.06205	327.9876	345.7466
0.98411	1.00721	118.3086	122.719	1.06344	0.86052	1.06344	110.5139	117.5106
0.37249	1.11994	290.085	326.6282	1.13118	0.32811	1.13118	347.71	391.9209
0.00999	0.78709	7034.831	5559.343	-1.43334	0.00025	0.69767	5585.088	3897.944
0.79859	0.78287	41.23383	32.1036	1.00036	0.99973	1.00036	34.76497	35.37302
0.23445	0.73415	173.5627	125.8084	-1.00992	0.97379	0.99018	127.5742	126.0643
0.00001	0.69791	10152.04	7048.421	-1.26265	0.00683	0.79198	9130.178	7187.835
0.23182	1.08216	2726.873	2939.312	1.00612	0.91608	1.00612	3185.721	3210.194
0.62	0.95432	3558.679	3409.741	1.47616	2.21E-17	1.47616	3328.877	4914.25
0.00342	0.66664	4015.538	2644.938	1.26265	0.03697	1.26265	3100.579	3917.899
0.0001	0.70775	9764.342	6893.437	1.12858	0.07158	1.12858	8631.709	9725.176
0.40673	0.49709	64.27654	30.40085	1.15403	0.85929	1.15403	45.7033	51.3387
0.65518	0.94272	608.9423	567.434	-1.04488	0.66132	0.95705	538.6343	517.2208
0.9548	1.01804	97.84497	98.88403	1.38499	0.38046	1.38499	85.17699	117.396
0.91219	0.97443	400.6706	408.4895	-2.14461	9.85E-06	0.46629	333.9597	155.9506
0.00325	0.74557	628.9846	466.3585	-1.25664	0.04091	0.79577	483.3193	386.1696
0.04665	0.91279	5736.579	5241.714	1.12265	0.00596	1.12265	6889.978	7737.012
0.98064	0.99676	292.9604	293.335	1.28544	0.01311	1.28544	324.6769	417.1337
0.00375	0.84285	1587.188	1331.978	-1.42868	2.48E-06	0.69995	815.1602	569.8095

0.92375	0.99085	1389.161	1371.95	-1.8007	0.00003	0.55534	1424.203	790.9178
0.04904	0.77108	3362.634	2580.064	-5.61926	8.98E-32	0.17796	2735.026	482.3214
0.00046	0.86114	3100.012	2668.852	1.05951	0.22486	1.05951	2751.658	2913.702
0.78993	0.95984	404.3964	393.7772	-1.379	0.0047	0.72516	396.4592	287.0608
0.50869	1.0581	982.1114	1036.939	-1.02951	0.52666	0.97134	1506.033	1462.681
0.84861	0.97849	356.1749	350.0427	-1.23067	0.01081	0.81256	539.6015	438.2711
0.93685	1.01176	412.5504	424.7993	-1.53493	0.00002	0.65149	483.8035	314.7396
0.76416	1.02261	1943.552	2000.353	-1.10967	0.05367	0.90117	2014.656	1816.215
0.24666	1.08852	1443.34	1561.183	-1.10087	0.08506	0.90838	2355.127	2142.786
0.35394	0.8436	214.5963	179.6677	-1.29924	0.23611	0.76968	160.2075	123.2522
0.01306	0.80543	786.6674	636.4506	-1.0744	0.34005	0.93075	592.4595	551.668
0.23951	1.06904	1414.315	1512.816	-1.19171	0.00312	0.83913	1304.564	1095.55
0.01223	0.74027	1359.198	998.5845	1.53063	7.14E-08	1.53063	1109.021	1701.694
0.0591	1.22422	872.1058	1065.19	1.55302	1.68E-07	1.55302	1185.304	1844.305
0.76132	1.01598	2786.215	2825.116	-1.04307	0.35778	0.9587	2835.146	2717.475
0.04656	0.74831	530.8119	391.3019	-1.60489	4.07E-06	0.62309	489.5563	305.5571
0.98048	0.99728	1567.855	1549.377	-1.15956	0.07659	0.8624	1554.75	1344.441
0.45189	0.9129	5029.325	4602.491	1.28138	0.00159	1.28138	4402.7	5662.549
0.88241	1.02587	27433.37	27080.14	-2.60842	7.55E-37	0.38337	29356.73	11183.26
0.98996	0.99482	90.59329	89.88681	-1.03069	0.86119	0.97023	206.5289	200.3869
0.29002	1.07032	947.7203	1013.679	-1.01932	0.74079	0.98104	1700.912	1671.521
0.35407	1.05898	1953.948	2063.753	1.07673	0.19271	1.07673	2214.494	2387.713
0.70428	0.98479	116375.5	114604.3	1.06847	0.1784	1.06847	141936.2	151735.5
0.30654	0.90149	328.5646	296.1617	-1.0208	0.87313	0.97962	300.5421	293.7702
0.0222	0.70826	1700.322	1175.927	1.08143	0.45898	1.08143	1735.238	1872.395
0.88429	1.02381	206.1261	212.0589	1.04236	0.79094	1.04236	198.8901	207.3091
2.61E-08	0.68042	11901.45	8091.538	-1.1857	0.01833	0.84338	9008.588	7600.317
0.00017	0.82702	1571.927	1300.244	-1.00238	0.97403	0.99763	1483.151	1481.774
0.68728	0.97038	3525.49	3435.283	-1.16133	0.07206	0.86108	3004.759	2595.339
0.03409	0.67983	644.8889	427.0162	1.16248	0.2281	1.16248	468.9002	548.5422
0.62076	0.97293	884.2987	860.8087	-1.04633	0.55215	0.95572	805.2008	768.049
0.70596	1.03742	353.4645	367.4989	-1.02286	0.84348	0.97765	317.036	309.7745
0.89367	0.91923	65.59525	58.51731	-1.2145	0.79788	0.82339	48.95086	40.27222
0.00472	0.85082	2664.884	2265.93	1.09678	0.07895	1.09678	2494.66	2734.794
0.12244	1.08554	1369.502	1487.724	1.26902	0.01182	1.26902	1313.744	1665.444
0.79271	0.87502	68.69652	61.02637	1.54792	0.40209	1.54792	61.15565	93.47128
0.54285	1.11518	261.2181	286.0724	-1.10388	0.18575	0.9059	570.0803	516.8124
9.84E-08	0.72955	8990.383	6561.892	-1.21151	0.00004	0.82542	7504.963	6195.732
0.6814	1.05805	19592.44	20597.13	-1.91983	1.48E-34	0.52088	20200.68	10509.58
0.42653	1.11214	306.4932	338.866	1.06353	0.6531	1.06353	362.4825	387.0044
0.85527	1.01685	471.708	478.006	-1.38724	0.00654	0.72085	415.6397	298.7546
0.38864	1.18443	186.891	224.265	1.25952	0.29382	1.25952	170.6674	213.0425
0.70424	0.91671	148.4182	136.1187	-1.05789	0.82755	0.94528	159.0813	151.4293
0.19748	0.88761	1080.238	956.3868	1.14282	0.12844	1.14282	929.9254	1059.696
0.42849	0.95068	6493.325	6169.282	1.22504	1.08E-06	1.22504	5982.48	7328.865
0.7223	1.02971	480.2206	493.627	2.0055	1.78E-09	2.0055	384.5056	773.6464
0.03736	0.84784	1481.16	1261.413	-1.47838	4.42E-22	0.67642	1329.482	899.2642
0.00253	1.18062	3925.089	4638.367	1.26179	0.00033	1.26179	3883.888	4906.621
0.78365	1.02444	1832.915	1870.389	1.24488	2.99E-06	1.24488	1821.229	2266.139
0.00033	1.17572	2870.364	3375.521	-1.52213	1.27E-06	0.65697	3771.147	2463.503
0.48842	0.88007	748.2943	668.7005	-1.15229	0.23569	0.86784	622.4464	537.0785
0.215	1.0633	1011.666	1075.368	-1.05929	0.31392	0.94403	1036.88	979.1623

0.05314	1.11279	919.1234	1021.976	1.68392	4.16E-22	1.68392	881.1859	1483.661
0.9845	1.00174	770.1447	776.0238	-1.11737	0.0746	0.89496	774.8007	693.6921
0.84219	0.96704	229.316	222.0111	-1.07996	0.75906	0.92596	164.2822	150.8998
0.00516	0.81382	1697.224	1383.96	1.12849	0.01427	1.12849	1425.185	1607.649
0.60083	0.96967	716.0736	693.9288	-1.01492	0.82821	0.9853	712.8286	701.6417
0.78539	0.95211	392.1494	364.5499	-1.04525	0.75294	0.95671	368.1422	354.3427
0.94336	0.91655	24.9861	22.85244	-1.04929	0.9728	0.95303	26.45713	30.16772
0.00167	0.676	4212.592	2812.576	-1.21041	0.05931	0.82616	3166.521	2605.93
0.58993	0.96886	4909.056	4748.448	1.00818	0.93156	1.00818	4626.004	4678.351
0.28936	0.88833	444.5788	392.3578	-1.51859	0.00364	0.65851	361.2913	239.0341
0.0555	1.17953	480.532	568.5308	1.01372	0.84479	1.01372	560.8585	568.5685
0.57044	0.9547	657.8392	630.3111	-1.15326	0.23777	0.86711	540.3618	470.5826
0.01058	0.62722	1151.368	708.8563	-1.04143	0.61775	0.96022	791.2227	761.7838
0.24476	0.93895	81171.2	76162.17	1.22611	0.02542	1.22611	100353.9	124693.1
0.08859	0.84417	1346.833	1135.062	1.00329	0.98381	1.00329	1085.292	1094.235
0.40967	0.90472	8299.412	7529.125	1.58682	2.81E-08	1.58682	6805.282	10835.25
0.90548	1.0422	86.77876	90.21442	1.07036	0.83165	1.07036	99.58378	106.4508
0.56393	0.96991	1512.696	1464.98	-1.0905	0.20785	0.91701	1468.235	1342.381
0.86095	0.86648	50.51817	46.17446	1.15024	0.7554	1.15024	78.95546	89.66252
0.35315	1.11583	314.1921	351.3639	1.1186	0.42926	1.1186	302.7866	336.6953
0.00389	0.6505	7969.499	5215.005	-1.41945	0.00299	0.7045	8107.704	5642.129
0.07954	1.10885	933.1315	1036.33	1.71071	1.22E-19	1.71071	958.2703	1639.269
0.14129	1.1919	389.5714	460.4217	1.54921	0.00454	1.54921	319.4579	497.753
7.70E-32	0.58695	3783.522	2221.09	-1.44948	5.90E-12	0.6899	2803.27	1931.571
0.12727	0.79612	2369.608	1870.334	1.93896	1.04E-06	1.93896	2012.71	3956.617
0.05735	0.80091	482.8636	389.8723	-1.15049	0.29757	0.86919	413.1144	356.2055
0.98706	0.97729	25.6934	26.43999	-1.31509	0.79259	0.7604	35.38926	31.77523
0.58719	1.03542	540.3115	559.6225	-1.16609	0.03983	0.85757	592.5261	508.4782
0.3727	1.07917	1406.958	1533.226	-1.10835	0.1831	0.90224	1358.37	1219.376
0.00015	0.66043	8097.868	5295.946	-1.42006	0.00034	0.7042	5863.008	4106.769
0.42182	0.96072	1491.846	1433.185	1.41935	3.00E-07	1.41935	1327.351	1881.867
0.83523	0.97741	358.8884	349.3303	-1.04563	0.70235	0.95636	299.9599	286.6289
0.63703	1.05201	1806.09	1901.606	1.2872	0.00103	1.2872	1655.457	2131.869
8.38E-08	0.61381	2935.488	1789.354	-1.61458	3.23E-13	0.61936	2179.193	1349.499
0.56327	0.93885	579.7159	548.2809	1.20002	0.0956	1.20002	732.8121	882.9827
0.00532	1.45457	518.8324	748.0908	1.72241	6.01E-19	1.72241	907.0585	1562.549
0.60099	1.0347	782.515	808.4998	1.09032	0.21719	1.09032	758.2997	825.5729
0.50523	0.93118	13587.56	12655.79	-1.3252	0.0001	0.7546	11062.75	8328.246
0.66255	1.01907	6538.665	6665.737	1.19957	0.00333	1.19957	6323.884	7577.622
0.78097	1.02979	621.8439	644.9169	1.48462	0.02383	1.48462	636.9371	941.8596
0.00796	1.21131	734.1291	891.4428	-1.14086	0.09846	0.87653	1016.817	888.234
0.44324	0.78654	130.3545	101.4043	-1.54373	0.28193	0.64778	117.0649	75.67555
0.96644	0.99298	212.8872	212.6595	-1.07597	0.66841	0.92939	208.0821	193.1573
0.21463	0.90562	1767.864	1596.666	1.3224	0.01968	1.3224	1619.343	2154.271
0.89463	0.98935	787.5652	776.2778	-1.00988	0.93038	0.99022	625.7505	623.3334
0.45809	0.94662	514.5064	486.6047	1.03427	0.75372	1.03427	425.2399	441.2838
0.01192	0.70681	1328.355	928.2426	1.63993	0.00015	1.63993	1007.764	1671.82
0.71191	1.06146	198.504	211.0557	-1.00876	0.96803	0.99132	211.9609	207.8518
0.00002	0.71883	2853.017	2043.126	1.00383	0.95566	1.00383	2443.499	2451.014
0.01154	0.81166	15778.29	12789.17	1.14053	0.10105	1.14053	14275.07	16268.69
0.42227	0.90778	519.7422	475.6862	-1.15087	0.13554	0.86891	493.8147	429.9299
0.0015	0.805	15053.12	12121.89	1.81843	1.73E-26	1.81843	13358.59	24319.07

7.74E-16	0.70355	4198.407	2954.042	1.27191	3.38E-06	1.27191	3712.994	4722.402
0.00461	0.86439	1436.876	1241.985	1.28418	1.77E-06	1.28418	1293.477	1661.625
0.42706	1.06777	539.022	573.8529	-1.15755	0.04016	0.86389	749.5819	647.0634
0.75638	0.95211	278.2608	267.523	-1.20686	0.20823	0.8286	246.1118	203.9211
1.85E-17	1.62329	2712.85	4409.225	2.20086	6.00E-35	2.20086	2269.046	5007.388
0.08265	0.87263	634.3804	555.0592	1.11048	0.14081	1.11048	852.882	945.7379
0.04009	0.70544	501.5815	346.2675	1.2752	0.00095	1.2752	524.9345	669.97
0.80156	1.04493	174.1562	181.5495	-1.00881	0.96075	0.99126	182.3216	180.7393
0.78807	0.88905	78.3672	70.65025	-1.08517	0.89896	0.92151	67.63421	60.66246
0.5111	0.92315	538.3684	501.5546	-1.66538	0.00022	0.60046	389.8223	234.7964
0.00122	0.73212	5570.396	4081.773	1.23404	0.01548	1.23404	4370.862	5415.977
0.7532	1.14048	97.57135	106.8017	-1.0866	0.68373	0.9203	157.273	144.7002
0.11451	0.82729	4248.715	3492.934	-2.76282	7.22E-15	0.36195	3905.729	1387.473
0.12738	1.10341	4435.069	4914.641	-1.38882	0.00002	0.72004	4950.482	3563.704
0.91637	0.98181	25738	24337.62	-2.97737	3.56E-24	0.33587	31653.63	10573.66
0.62157	1.03299	2651.822	2733.074	1.18109	0.0073	1.18109	2290.813	2704.25
0.15927	1.07616	4341.72	4677.146	1.01227	0.82192	1.01227	4742.206	4792.783
0.33263	0.88501	482.2671	428.2847	-1.31217	0.01299	0.7621	493.2462	377.3223
0.54599	1.02687	2409.688	2473.096	-1.04843	0.32269	0.95381	2424.556	2310.501
0.57305	0.97629	2775.864	2710.872	-1.05997	0.2748	0.94342	2566.585	2414.566
0.85486	1.01739	818.3941	836.1918	-1.03931	0.63687	0.96217	1745.099	1677.292
0.47678	1.03967	1752.083	1827.143	-1.19599	0.00018	0.83613	1569.607	1312.404
0.00528	0.74552	4216.658	3134.495	1.41337	7.18E-07	1.41337	3539.754	5013.313
0.92264	0.9846	218.5208	215.5305	-1.17906	0.50266	0.84813	209.4701	177.8931
0.98985	1.00127	1175.21	1174.308	1.36874	0.00003	1.36874	1047.736	1436.747
0.3113	1.05945	1377.95	1457.11	-1.06877	0.16406	0.93566	1380.863	1292.102
0.00487	0.79783	5336.915	4277.8	1.27861	1.53E-08	1.27861	4632.772	5923.303
0.34294	0.88036	526.9531	457.8712	1.56597	9.68E-11	1.56597	451.7863	707.4079
0.91527	0.98752	776.4321	773.6072	-1.18133	0.16036	0.8465	560.5067	477.5772
0.73338	1.07222	131.5079	140.9397	-1.06393	0.85276	0.93991	113.239	106.3515
0.86229	1.01937	362.3091	367.795	-1.08284	0.61339	0.9235	297.617	276.5628
0.46597	1.08485	309.9811	335.2754	-1.16615	0.24379	0.85752	301.4929	258.8944
0.00056	0.81588	1179.968	962.5979	1.2789	0.00714	1.2789	1019.198	1301.413
0.9047	1.01393	770.8563	775.0068	1.42352	0.00026	1.42352	673.3484	963.2505
0.8877	1.01132	499.6804	506.3778	-1.07214	0.55212	0.93272	380.7603	356.3467
0.60467	1.07971	797.492	861.0598	-1.0187	0.77597	0.98165	1902.301	1862.511
0.05777	1.09782	5709.704	6261.276	1.00869	0.84255	1.00869	6368.287	6421.123
0.53139	0.94732	1489.156	1419	-1.64312	4.30E-16	0.6086	1554.591	946.3257
0.75681	1.06481	220.7501	230.6776	1.42631	0.05047	1.42631	198.7798	283.5347
0.95943	1.00302	2136.738	2148.691	1.05336	0.27925	1.05336	2311.796	2436.037
0.04528	0.76204	4333.231	3294.017	1.05846	0.50635	1.05846	3586.486	3792.32
0.00136	0.82632	2759.071	2277.272	-1.05381	0.56684	0.94894	2498.509	2372.618
0.42334	1.04421	1070.757	1119.434	1.31895	1.22E-07	1.31895	1124.906	1484.136
0.28293	0.8335	226.9792	188.961	1.26024	0.09344	1.26024	274.4827	344.4536
0.85461	1.02608	250.7725	256.6955	1.11376	0.51749	1.11376	253.1646	282.5873
0.78266	1.29844	34.59313	42.70115	-1.02829	0.98116	0.97249	34.96963	35.85439
0.0001	0.68837	9739.45	6693.642	-3.08508	3.73E-42	0.32414	8203.374	2657.171
0.6543	0.95637	469.8541	447.2138	1.0668	0.47752	1.0668	406.6218	433.4026
0.00712	1.13657	8266.116	9395.438	-1.26321	0.00029	0.79163	10558.18	8311.674
0.49311	1.05807	2599.708	2756.781	1.4805	0.00019	1.4805	2473.954	3673.5
0.46275	0.88509	294.4671	256.9434	1.7445	4.54E-06	1.7445	278.836	488.3549
0.81481	0.8612	59.46732	52.92608	1.3372	0.68133	1.3372	40.55406	54.22659

0.15687	0.89466	1861.735	1660.009	1.23704	0.00414	1.23704	1747.319	2157.715
0.00137	1.17325	1288.47	1511.913	1.23277	0.00814	1.23277	1316.719	1615.176
0.04619	1.25997	26137.57	32802.8	-2.71503	2.78E-12	0.36832	36678.09	13193.79
0.1774	0.87006	558.0232	482.5054	1.80989	1.63E-08	1.80989	486.1527	884.8018
0.96928	0.99501	354.7127	355.8489	-1.15031	0.33684	0.86933	308.6296	269.2024
0.7682	0.93949	172.5574	163.5319	1.40017	0.11228	1.40017	177.4291	250.4818
0.47489	1.03257	1572.99	1623.946	-1.03334	0.556	0.96773	1496.638	1447.771
0.68833	0.9834	3008.61	2958.469	-1.04506	0.44993	0.95689	2807.948	2681.698
0.22685	1.06809	2513.037	2694.696	1.02364	0.69182	1.02364	2524.978	2579.753
0.5473	1.04208	1786.703	1867.157	-1.07288	0.37887	0.93207	1763.141	1642.567
0.79151	0.91957	25108.03	20623.84	-14.74441	6.15E-43	0.06782	26948.26	1825.839
0.69291	0.97722	2618.79	2568.463	-1.16476	0.02249	0.85855	2944.492	2520.692
0.04446	1.10047	1362.423	1499.217	1.07874	0.34051	1.07874	1214.158	1302.945
0.81016	1.01579	1029.833	1043.085	-1.01865	0.80208	0.98169	1133.006	1114.031
0.38255	0.91353	760.5055	689.2698	1.04267	0.64756	1.04267	730.658	764.6831
0.0073	0.68791	15091.61	10246.54	1.19368	0.1215	1.19368	11435.79	13671.38
0.86661	0.9688	2232.099	2163.555	-2.51847	0	0.39707	2267.53	900.5299
0.38337	1.07218	770.3981	822.5133	-1.10139	0.13442	0.90794	810.6831	736.4751
0.35807	1.05548	4106.987	4349.914	-1.17223	0.0021	0.85308	4865.569	4150.699
0.0674	0.81068	7594.137	6156.387	1.01862	0.76331	1.01862	6962.636	7105.958
0.02105	1.18804	491.6365	584.07	1.37475	0.00418	1.37475	423.6907	579.4523
0.93756	1.00736	473.3382	478.5198	-1.03613	0.66345	0.96513	736.8304	709.9935
0.82576	0.82212	43.72344	34.77862	1	1	1	20.56992	28.75246
0.80164	1.19199	34.21988	40.78954	1.13353	0.87717	1.13353	52.84961	58.52271
0.83983	1.01331	1339.123	1353.126	-1.03474	0.56401	0.96643	1354.574	1309.951
0.23024	0.85974	9518.412	8157.257	1.3229	0.00497	1.3229	8498.963	11288.32
0.88124	1.05799	100.9517	109.8423	-1.49305	0.04248	0.66977	196.8054	131.6986
0.06431	1.10569	768.3536	849.4851	1.22618	0.00253	1.22618	647.386	794.3315
0.74759	1.02629	872.6003	895.2722	-1.07962	0.254	0.92625	1120.617	1040.065
0.06709	0.83694	12567.51	10641.58	1.31325	0.00585	1.31325	14974.54	19505.33
0.67983	0.94432	326.4732	305.4397	1.57902	4.24E-06	1.57902	303.8412	479.1798
0.47285	0.71189	131.9104	99.42227	-1.74082	0.39012	0.57444	98.94421	55.88652
0.83955	1.05892	122.9778	128.8615	1.0923	0.79539	1.0923	106.641	116.68
0.0906	1.18753	1381.244	1635.49	-1.31149	0.00003	0.76249	1263.175	965.2589
0.65584	1.03385	902.4167	937.0781	-1.13654	0.0917	0.87986	954.0255	837.6404
0.87163	0.98346	826.0948	815.7947	-1.28344	0.00235	0.77915	817.4531	635.5106
0.3278	1.21044	168.2251	203.8471	-1.0599	0.82428	0.94349	139.329	130.9286
0.19538	0.77931	2793.324	2140.869	68.034	0	68.034	4816.784	323039.9
0.28625	1.11367	343.7939	383.969	-1.00915	0.94081	0.99093	333.1061	329.1157
0.3074	1.07162	2315.384	2486.971	-1.4002	1.04E-11	0.71418	2468.773	1764.481
0.68002	0.84063	138.1954	125.3979	-2.50729	0.03707	0.39884	155.5114	61.45853
0.20644	0.91437	2060.576	1881.841	-1.02944	0.66735	0.9714	1898.173	1850.12
0.44207	0.96022	2033.358	1954.223	-1.21304	0.01683	0.82438	1804.672	1482.618
0.81109	1.02578	492.7786	502.1573	1.11317	0.23079	1.11317	415.9213	463.3929
0.24901	1.05454	1470.917	1551.142	1.08929	0.06258	1.08929	2626.479	2861.472
0.50251	0.86117	444.2913	382.6093	1.1144	0.40622	1.1144	343.2174	380.7032
1.28E-08	0.61672	10248.09	6306.358	-1.17633	0.14822	0.8501	7414.99	6280.417
0.60558	1.0532	448.3127	473.1716	-1.28279	0.09641	0.77955	439.9652	340.7662
0.65751	0.95096	11335.05	10779.15	-1.06026	0.23239	0.94317	15976.16	15097.76
2.15E-06	0.79977	3814.076	3050.219	-1.0931	0.03996	0.91483	3532.469	3231.735
0.29219	1.06215	1237.963	1318.181	1.81923	0	1.81923	1203.227	2189.446
0.79081	0.88498	98.90437	91.78529	1.89716	0.10018	1.89716	86.00367	158.4847

0.43979	1.10187	1611.507	1786.338	1.16786	0.00248	1.16786	2059.24	2406.452
0.39418	0.63816	97.2823	59.49863	1.62942	0.3582	1.62942	57.92527	93.88105
0.95865	0.99429	833.2183	832.1171	-1.2219	0.0093	0.8184	811.4609	663.0947
0.03013	0.75871	1832.147	1400.523	1.37974	0.0018	1.37974	1981.617	2719.67
0.14851	1.07819	973.4109	1048.818	-1.00018	0.99779	0.99982	1026.001	1024.785
0.00011	0.64902	3097.609	2012.909	1.1857	0.00487	1.1857	2558.479	3036.476
0.22356	1.08029	1394.8	1507.784	1.41762	6.26E-08	1.41762	1253.525	1777.496
0.02355	0.87344	1259.68	1100.089	-1.17601	0.00189	0.85033	1467.505	1247.421
0.5369	1.08755	246.9668	268.9478	-1.06836	0.60773	0.93602	278.0748	260.5836
1	1	18.24329	23.98569	1	1	1	18.47176	32.67141
0.12054	0.9022	3025.579	2738.193	1.48863	1.63E-06	1.48863	3331.689	4944.875
0.94413	0.98983	271.1976	266.4746	1.08696	0.62822	1.08696	253.7178	278.0436
0.11649	1.08998	1085.188	1183.485	1.37955	0.00025	1.37955	970.5564	1337.037
0.38374	1.0645	1066.708	1133.808	-1.09834	0.13946	0.91047	1129.022	1026.498
0.05645	0.61819	33843.1	20042.98	-6.94166	2.67E-40	0.14406	10698.11	1466.791
0.16103	1.07323	1652.07	1776.393	1.01942	0.7391	1.01942	1933.767	1972.092
0.45096	1.09478	993.2455	1091.382	-1.57846	3.71E-10	0.63353	1268.468	800.7974
0.00044	0.76984	1217.978	936.3721	1.27409	0.00002	1.27409	1142.984	1456.517
0.95648	1.00612	481.1924	487.6643	1.14836	0.31567	1.14836	378.6743	430.5053
0.41266	1.07979	1194.217	1285.205	-1.07784	0.2604	0.92778	1143.741	1060.38
0.23234	0.8996	17671.45	15922.17	3.96917	0	3.96917	17017.47	67737.42
0.6869	0.92573	325.0549	290.1454	1.00129	0.99256	1.00129	311.993	313.9367
0.00037	0.72902	698.8126	507.4547	-1.11463	0.31684	0.89716	566.0455	510.0889
0.04855	0.75381	687.1859	510.424	1.13653	0.10986	1.13653	527.6475	600.5682
0.19742	0.93944	1730.052	1625.412	1.24143	0.00016	1.24143	1582.691	1964.501
0.03144	0.8351	5098.226	4274.346	1.24561	3.69E-07	1.24561	4350.062	5418.189
0.97034	0.99833	7936.945	7919.068	1.091	0.09402	1.091	7803.477	8521.049
2.02E-12	0.70383	2408.959	1694.865	-1.01836	0.79716	0.98197	2095.887	2056.134
0.38725	0.91981	443.9531	407.3777	1.29926	0.04688	1.29926	361.7415	467.0672
0.00693	0.81704	926.9616	755.8403	1.34132	1.01E-07	1.34132	801.634	1075.256
0.1308	1.37001	289.5782	408.0669	-2.1812	0.00308	0.45846	354.3203	157.0469
0.26255	1.09224	2725.531	2938.574	1.18521	0.01409	1.18521	3039.601	3598.572
0.3708	0.88541	11901.28	10521.46	-1.44219	5.91E-14	0.69339	10760.37	7464.947
0.0115	0.67007	2712.663	1781.987	-1.04662	0.74567	0.95546	2240.228	2155.544
0.60899	1.43038	37.64188	52.8746	-1.01624	0.98697	0.98402	49.82829	51.99966
0.01369	0.776	800.4382	617.1532	1.39169	0.00446	1.39169	637.2688	893.4996
0.09577	1.24036	2505.818	3148.166	2.96256	3.65E-35	2.96256	1665.779	4983.653
0.92572	0.99252	1405.844	1405.768	-1.13488	0.01039	0.88115	1324.82	1167.269
0.57978	0.96171	562.7283	541.8397	1.16898	0.09154	1.16898	533.0246	625.0206
2.46E-07	1.92041	49424.05	94509.59	-1.12235	0.33194	0.89099	79392.44	69655.17
0.78176	0.98403	1066.107	1048.959	1.04749	0.44477	1.04749	1041.979	1090.676
0.96223	1.00331	662.5602	663.4061	1.17919	0.00573	1.17919	706.4456	832.8096
0.19759	1.08741	3124.502	3416.464	-1.05335	0.38047	0.94935	3319.551	3140.751
0.41977	1.06855	987.3201	1054.268	2.8035	1.03E-12	2.8035	935.4596	2647.944
0.34291	0.84808	603.2977	500.0966	1.42903	0.0014	1.42903	468.938	674.0641
0.01588	0.82195	652.1913	534.3572	-1.08538	0.38037	0.92133	596.1556	547.5414
0.16061	1.116	529.2416	591.6921	1.05553	0.4763	1.05553	550.3721	580.3495
0.86748	0.98599	6170.69	6113.743	2.11199	1.09E-27	2.11199	5744.395	12138.41
0.33441	0.86599	487.1848	413.2203	-1.05	0.43211	0.95238	669.7683	637.8522
0.23539	1.10038	489.5316	539.8749	-1.08306	0.51483	0.92331	561.854	514.4276
0.90508	1.01137	1078.148	1082.598	-1.07546	0.34519	0.92984	1172.889	1093.269
0.80779	0.96954	5410.048	5217.565	1.14797	0.21485	1.14797	5108.355	5892.932

0.98585	0.99888	659.194	657.8635	1.0173	0.78308	1.0173	668.7687	680.1335
0.91006	0.98051	244.2147	236.9151	-1.0904	0.62849	0.91709	234.2744	215.7832
0.66115	0.94805	688.6586	658.6016	-1.60971	0.00006	0.62123	648.1765	400.9974
0.11529	1.13668	1430.779	1628.154	1.39188	5.25E-08	1.39188	1270.358	1768.985
0.88431	1.01049	502.9893	508.4269	1.11444	0.17551	1.11444	606.3186	676.9412
0.65071	1.04297	1117.958	1184.232	-1.08231	0.33802	0.92395	2340.094	2190.883
0.81171	1.09688	93.6044	105.4026	-1.03444	0.94021	0.9667	97.0983	93.28239
0.74926	1.04514	228.2049	238.1848	1.11426	0.51771	1.11426	228.4688	255.8716
0.76531	0.96134	748.2723	725.4438	-2.35911	1.51E-19	0.42389	614.2446	260.5118
0.8349	1.02361	1309.051	1346.87	-1.01409	0.82185	0.9861	1068.083	1052.152
0.1038	0.92727	4499.952	4167.473	-1.13968	0.03973	0.87744	4171.482	3670.037
0.00726	0.55973	2164.34	1137.531	-1.48614	0.06047	0.67289	1504.734	1001.329
0.7336	0.95197	292.2174	275.8406	1.15464	0.43073	1.15464	294.1467	337.152
0.82255	0.96883	269.6481	261.3776	-1.07489	0.50102	0.93033	366.8669	341.6926
0.04081	1.09909	4543.306	4991.109	-1.21951	0.00141	0.82	4326.756	3550.837
0.16699	0.74329	2767.428	2040.252	-1.90928	4.58E-15	0.52376	1666.614	870.7696
0.14337	0.88675	3184.005	2825.434	1.3131	0.00016	1.3131	2597.869	3420.268
0.22739	0.79969	702.707	570.6532	-1.0916	0.37907	0.91608	772.6824	710.6966
0.8697	0.98976	4403.361	4386.238	-1.0292	0.67634	0.97163	4223.996	4073.508
0.13749	0.85147	3322.923	2828.234	1.0821	0.47563	1.0821	2888.286	3124.894
0.99955	1.00005	3436.398	3440.729	1.66271	3.62E-17	1.66271	3020.201	5024.239
0.36291	0.89874	2227.937	1999.555	-1.14631	0.29292	0.87236	1440.404	1256.189
0.08	0.79952	1548.159	1234.536	1.30284	8.45E-09	1.30284	1264.377	1647.304
0.27607	0.89597	661.7529	596.4941	-1.05952	0.58691	0.94382	642.2385	603.1732
0.62463	1.09333	174.4116	190.9736	1.1972	0.33521	1.1972	163.4607	195.3876
0.18238	0.85694	52799.25	45402.07	2.54414	0	2.54414	48809.7	124333.3
0.57648	0.78171	104.3849	78.87245	-1.10444	0.86229	0.90543	81.0132	72.35307
0.71746	0.95273	721.7955	680.1467	1.14748	0.03092	1.14748	669.7081	768.9383
0.87794	0.99298	1727.32	1715.047	-1.07143	0.41045	0.93333	1587.073	1480.685
0.00688	0.86242	4421.312	3819.377	1.19555	0.00721	1.19555	5050.134	6028.49
0.00067	1.50315	478.4977	713.7745	3.07813	0	3.07813	523.0115	1609.707
0.63737	1.06594	278.121	296.1849	1.16794	0.21323	1.16794	277.7579	323.7728
0.93708	0.99338	735.73	734.0983	-1.12348	0.20792	0.8901	723.7273	642.2311
0.27733	0.90083	5475.903	4938.121	1.53515	6.69E-08	1.53515	5503.406	8456.494
0.89592	1.05117	102.9389	108.2356	1.05431	0.94818	1.05431	62.08205	62.56376
8.66E-06	0.79026	1124.048	887.8716	-1.00074	0.99501	0.99926	821.069	825.9833
0.29491	1.10364	790.0695	873.33	-1.4019	0.00165	0.71332	1251.096	891.3204
0.47215	1.06622	592.4877	634.5059	-1.10699	0.32795	0.90335	478.3317	433.5421
0.27775	1.06286	912.3836	970.8283	-1.0602	0.42133	0.94322	911.2169	858.2086
0.00013	0.65084	1138.755	737.2944	1.14748	0.05525	1.14748	905.2575	1040.85
0.11944	0.87527	9916.045	8728.129	-1.10652	0.17257	0.90374	8751.602	7898.378
0.00005	0.78868	1143.039	901.2638	-1.04917	0.43965	0.95313	1122.941	1069.493
0.94959	1.0186	108.5932	111.4988	1.15256	0.77697	1.15256	78.09801	90.22562
0.13842	1.14485	6229.202	7151.314	-1.5887	0.00018	0.62945	8664.641	5401.384
0.19115	1.13736	370.7187	420.2773	1.4502	1.24E-06	1.4502	398.5356	577.9965
0.69883	0.69725	43.52856	30.44735	-1.03868	0.9369	0.96276	93.33778	88.97685
0.68085	1.09248	134.8088	147.0528	1.04303	0.82556	1.04303	202.7311	211.6791
0.78148	1.02298	2213.762	2270.941	1.34767	0.00001	1.34767	2031.051	2739.08
0.98514	0.99724	614.9559	604.704	1.17934	0.13827	1.17934	545.6324	646.8272
0.08031	0.8427	2345.535	1960.627	2.19616	9.55E-15	2.19616	2152.29	4745.541
0.40539	1.06958	932.2506	1002.29	1.03852	0.55674	1.03852	858.4177	890.5958
0.45359	1.05785	4594.175	4836.229	-1.03832	0.53415	0.9631	4993.589	4823.594

0.03162	0.85584	13995.92	11988.78	1.71121	4.42E-28	1.71121	12814.82	21927.43
0.01689	0.77778	1306.891	1012.547	-1.17534	0.00618	0.85081	1071.433	910.9545
0.0021	0.7158	1818.674	1298.193	-1.10172	0.11648	0.90768	1368.531	1243.841
0.91911	0.98645	667.4292	665.7587	-1.39368	0.00086	0.71752	696.5901	500.8455
0.02363	1.14533	5066	5808.786	1.23439	0.00072	1.23439	4348.401	5370.612
0.86152	1.04014	216.937	227.6063	-1.45672	0.01426	0.68647	255.761	175.4675
0.24197	1.05536	1441.826	1522.203	1.08188	0.18361	1.08188	1694.092	1830.081
0.43951	0.93687	643.4741	604.9595	-1.61612	1.65E-09	0.61877	593.691	367.4327
0.00803	1.26942	1753.086	2240.433	1.54172	2.96E-16	1.54172	1622.366	2511.249
0.28296	1.11572	510.9011	573.5198	-5.56052	1.43E-06	0.17984	530.3283	95.37391
0.58762	0.91256	246.0301	223.2688	-1.38721	0.2394	0.72087	221.0386	162.6671
0.63502	1.03654	504.2871	522.9503	-1.06037	0.56851	0.94307	470.2925	444.0897
0.16364	0.81519	565.8259	454.4359	1.02413	0.82924	1.02413	474.6338	488.1713
0.37219	1.05607	1200.667	1270.941	1.02896	0.5534	1.02896	1176.529	1210.737
0.85451	0.95295	184.5896	178.8058	-1.01816	0.9245	0.98216	182.4054	179.4525
0.76095	1.02971	2134.81	2196.733	1.17974	0.02386	1.17974	1835.095	2170.082
0.62237	0.97145	951.9861	923.4951	1.20076	0.00033	1.20076	932.4191	1119.552
0.99459	0.99675	80.05945	79.15773	-1.41784	0.09838	0.7053	192.932	136.3411
0.8711	1.01091	691.4159	699.9693	-1.03098	0.69671	0.96995	651.4161	630.796
0.22694	1.06389	9535.122	10156.49	-1.07078	0.35385	0.9339	10870.17	10106.92
0.69987	1.04316	749.2824	788.8835	-1.15903	0.13181	0.86279	722.3253	620.5844
0.42293	1.04645	2379.677	2481	3.67355	0	3.67355	2288.559	8409.32
0.21467	1.22701	16932.46	20161.81	-2.97431	2.56E-12	0.33621	28861.93	9518.517
0.54685	0.94868	614.4041	585.2898	-1.19609	0.15414	0.83606	548.0013	454.5774
0.09129	0.88665	971.1178	858.7302	-1.58573	2.39E-09	0.63062	858.9408	542.5485
0.91411	1.00869	438.358	442.5765	-1.02654	0.75667	0.97414	505.1675	491.4367
1.62E-06	0.75457	11339.06	8562	-1.16224	0.00446	0.86041	9968.479	8577.225
0.9753	1.00497	195.404	196.4092	1.12035	0.58224	1.12035	204.7027	227.4814
0.00001	0.79612	47107.41	37550.17	-1.04437	0.31158	0.95752	49709.28	47599.18
0.55084	0.88965	165.2693	147.5722	-1.10648	0.77591	0.90376	136.8366	123.2805
0.34983	1.08279	1723.982	1860.089	1.45293	2.81E-06	1.45293	1881.337	2746.601
0.14177	0.82483	3228.08	2672.32	1.90326	6.89E-12	1.90326	2752.484	5271.819
0.95457	0.97573	72.61728	71.29955	1.08585	0.9146	1.08585	47.26363	50.2907
0.9631	1.00509	1863.594	1859.726	2.06384	2.18E-06	2.06384	1561.265	3287.117
0.32474	1.06285	6114.752	6515.269	1.08589	0.22157	1.08589	6144.886	6669.793
0.00096	0.68862	598.0546	408.5201	-1.52741	0.00038	0.6547	569.7241	375.3604
0.80588	1.04705	175.088	182.285	1.75888	0.00341	1.75888	167.6097	295.1278
0.2133	1.08639	584.5259	634.8846	1.4191	0.00148	1.4191	590.5543	834.4493
0.48663	1.03311	4013.506	4142.321	-1.1116	0.05021	0.8996	4363.059	3926.169
0.8292	1.04323	147.5215	153.4752	1.94531	0.00328	1.94531	118.9117	230.011
0.6346	0.86452	128.1726	109.2724	1.05235	0.88754	1.05235	91.60843	96.30072
0.76953	0.80571	46.40183	37.0234	1.17176	0.87328	1.17176	34.87077	42.02472
0.34426	1.06756	1529.222	1641.794	1.06935	0.36485	1.06935	1571.605	1672.103
0.90651	0.96919	174.8485	173.6359	-1.11211	0.64989	0.89919	217.4255	196.2273
0.53737	1.05321	8013.657	8335.818	-1.04596	0.29088	0.95606	8993.375	8596.263
0.86726	0.98644	3136.785	3090.764	-1.77173	2.22E-24	0.56442	3154.315	1780.379
0.76475	1.01454	2075.449	2106.055	-1.03766	0.54013	0.96371	1758.68	1692.992
0.01011	1.20427	2346.445	2825.115	1.02808	0.55443	1.02808	2700.069	2777.358
0.93372	0.98542	276.1582	267.6101	1.20576	0.34039	1.20576	236.4812	286.5703
0.00541	0.53962	15153.12	8473.492	-1.9567	0.00057	0.51106	2480.366	1245.492
0.0004	1.18325	4277.687	5058.871	1.08032	0.16009	1.08032	4508.776	4881.18
0.14896	1.13355	8922.717	10136.13	-1.4357	0.00007	0.69652	9700.811	6725.967

0.45099	0.93092	2814.666	2617.26	1.12269	0.17843	1.12269	2582.486	2896.74
0.76836	1.27005	36.26502	46.77972	1.12816	0.92002	1.12816	38.10465	39.25831
0.20446	1.09296	553.5773	604.5132	2.29594	2.18E-23	2.29594	538.7654	1235.638
0.36335	1.05013	889.1462	933.1234	-1.04138	0.48732	0.96026	912.4614	875.9641
0.27612	1.12854	476.1634	533.4117	1.20086	0.08466	1.20086	425.9062	513.4888
0.26609	1.34435	148.631	193.7968	2.1229	0.00005	2.1229	194.9843	412.7037
0.02797	0.79291	1573.12	1257.422	1.12609	0.05287	1.12609	1571.135	1770.699
0.00048	0.52925	1128.452	581.335	1.09159	0.5163	1.09159	753.3299	829.7885
0.2874	0.76787	264.3371	192.4942	1.25901	0.10788	1.25901	238.468	300.4578
0.10487	1.11854	1597.529	1788.261	-1.00865	0.91076	0.99143	1873.23	1857.34
0.28884	1.07094	5587.155	5970.307	-1.11745	0.02325	0.8949	6520.007	5835.046
0.98407	1.00299	9462.926	9520.221	-1.7903	5.80E-30	0.55857	9572.255	5351.618
0.20909	1.09002	1397.089	1528.136	-1.01183	0.84349	0.98831	1545.754	1529.921
0.06407	1.18382	1219.874	1451.024	1.77888	9.71E-30	1.77888	1100.563	1957.807
0.23183	0.92451	25420.88	23400.51	1.17904	0.04902	1.17904	26479.5	31274.67
0.04336	0.81941	3140.063	2584.565	1.40184	7.27E-06	1.40184	2613.334	3675.691
0.73008	0.93359	187.8113	174.0906	-1.06352	0.79891	0.94028	219.0654	207.6319
0.1054	1.07844	4524.092	4870.396	-1.0769	0.14825	0.92859	5603.018	5215.88
1	1	18.15406	22.42232	1	1	1	17.77074	29.91622
0.10752	1.07913	8193.579	8855.514	1.04056	0.39873	1.04056	8435.29	8775.539
0.99806	1.00014	4115.818	4111.499	2.13663	0	2.13663	4407.548	9417.236
0.67759	1.08945	347.735	389.871	2.11603	0.00077	2.11603	258.3432	532.9876
0.61804	1.03625	690.1309	716.993	-1.37723	2.94E-06	0.72609	795.1	577.4542
0.23196	1.09441	622.9003	682.4445	1.04594	0.47181	1.04594	1328.209	1392.227
0.00008	1.22453	1918.685	2350.408	2.18007	2.44E-16	2.18007	1836.82	3992.875
0.49492	1.02963	5323.169	5476.941	-1.11267	0.04242	0.89874	4949.825	4449.159
0.37372	1.07255	530.0029	569.8779	-1.28709	0.00386	0.77695	521.2034	404.6074
0.00875	0.71144	406.6894	287.0433	1.11304	0.42227	1.11304	291.5254	323.3036
0.19022	1.10863	534.4274	591.0405	-1.05948	0.55039	0.94386	438.5109	414.4507
0.92518	0.96597	117.454	113.296	-1.20354	0.77409	0.83088	92.74969	71.71918
0.3102	0.72877	117.0596	85.28526	1.08538	0.89348	1.08538	64.61715	69.52199
0.00022	1.17723	5927.931	6975.812	-1.54536	2.35E-12	0.6471	6484.213	4199.898
0.04069	0.8976	2624.75	2357.195	-1.16669	0.00282	0.85713	2556.711	2191.287
0.06855	1.24398	15020.56	18740.36	-2.49105	7.19E-16	0.40144	15896.46	6336.72
0.00737	0.81983	68485.16	56001.14	-1.04856	0.45135	0.95369	72750.88	69402.48
0.1347	0.85294	8161.021	7012.335	1.16208	0.13319	1.16208	8724.405	10053.01
0.75669	0.87355	76.93841	67.20389	1.01408	0.96898	1.01408	94.12184	95.31411
0.98624	0.99899	2340.625	2338.401	1.2233	0.00029	1.2233	2023.636	2477.667
0.57373	0.83607	4874.482	3644.403	-7.61216	9.51E-26	0.13137	4267.234	560.5815
0.5131	1.09048	526.2708	567.6517	1.11674	0.35039	1.11674	516.6163	577.609
1.37E-06	1.23484	5906.965	7295.661	-1.81611	7.31E-29	0.55063	6515.96	3590.748
0.15655	0.80132	361.8516	294.4799	-1.12192	0.43573	0.89133	311.4518	278.6989
0.44134	1.08975	1314.577	1425.806	-1.37004	0.00294	0.72991	1340.242	977.5526
0.33231	0.91126	354.6979	323.3892	-1.12058	0.35262	0.89239	347.3629	309.253
0.48578	0.94649	4023.03	3814.102	1.49184	2.15E-12	1.49184	3590.633	5354.899
6.38E-09	0.53325	3243.587	1721.354	-1.69532	0.00002	0.58986	2649.511	1549.701
0.20399	0.85307	20157.32	17112.2	-1.14963	0.11449	0.86984	18746.21	16285.2
0.04557	0.89852	2719.634	2439.752	1.05978	0.23043	1.05978	2496.895	2644.87
0.00354	0.68434	8500.044	5782.094	-4.11834	6.73E-42	0.24282	6353.98	1537.634
0.8514	0.98257	708.5264	693.6437	-1.06264	0.5488	0.94105	848.8521	802.035
0.31416	1.19496	214.8374	257.7369	1.12374	0.30888	1.12374	429.4509	481.0653
0.0066	1.16126	10358.04	12030.66	-1.4553	1.83E-19	0.68714	12348.08	8485.277

0.79254	0.91438	102.2478	94.13367	-1.16642	0.78161	0.85733	64.0392	55.13263
0.51838	0.69515	81.80752	54.92984	1.07697	0.89868	1.07697	67.50526	71.06168
0.68428	0.97925	3139.395	3073.646	1.2125	0.00033	1.2125	2895.851	3513.12
0.00583	0.64944	854.0359	545.2001	-1.23612	0.00852	0.80898	631.1758	511.3542
0.26959	0.88428	513.1578	450.3074	-2.11237	9.19E-07	0.4734	399.6119	189.2282
0.46844	0.75816	192.7365	135.7078	1.40991	0.26966	1.40991	125.432	178.5058
0.771	0.9706	6050.119	5860.792	-1.4501	1.44E-11	0.68961	5397.149	3720.777
0.05612	0.7643	2705.783	2072.406	1.04403	0.76998	1.04403	2457.165	2561.621
0.02494	1.12766	4869.015	5498.027	-1.22224	0.00282	0.81817	6075.041	4925.035
0.25942	1.07644	1630.315	1750.625	1.02883	0.5868	1.02883	1742.041	1794.343
0.68665	1.11666	172.1798	184.7248	1.06386	0.79008	1.06386	206.9321	223.4703
0.18391	0.84633	3283.007	2755.17	1.36876	0.00025	1.36876	2844.646	3900.718
0.62414	0.88825	208.3387	191.2484	-1.42941	0.12741	0.69959	243.9369	173.6496
0.26753	1.07152	1645.966	1759.356	-1.13209	0.00945	0.88332	1763.19	1558.235
0.6232	0.96959	693.2698	671.7366	1.35122	0.00065	1.35122	568.2107	765.9735
0.86785	1.01283	1724.601	1727.091	1.06895	0.2312	1.06895	2217.674	2370.172
0.49272	1.03753	3518.299	3649.236	-1.01713	0.78148	0.98315	2382.001	2320.689
0.61333	0.86392	944.2346	823.9478	-7.49942	1.98E-13	0.13334	922.1589	122.964
0.13415	1.10342	1344.712	1494.199	-1.06487	0.26334	0.93908	2547.277	2398.467
0.44067	1.05019	795.4801	834.0488	1.03237	0.60851	1.03237	938.7977	968.3241
0.00645	1.30926	2881.775	3738.256	-3.41362	2.81E-24	0.29294	4897.912	1415.016
0.4544	0.88327	240.0343	211.1836	-1.24178	0.36168	0.8053	197.2202	158.4856
0.7941	0.9528	304.5333	295.6576	-1.33651	0.09934	0.74822	206.7857	154.6883
0.92499	0.9908	467.1099	463.9815	-1.01732	0.87609	0.98298	372.8033	365.8116
0.67094	1.09571	155.2535	171.0098	1.01574	0.94846	1.01574	176.2596	177.044
0.99384	0.99881	348.0652	349.2881	-1.24803	0.12706	0.80126	358.0369	286.2981
1	1	18.29375	23.75519	1	1	1	17.60237	31.59304
0.48823	0.86325	252.5166	223.2564	-1.22912	0.32693	0.81359	234.4404	192.7953
0.16403	1.07565	784.714	844.1167	1.02284	0.69585	1.02284	846.262	865.2227
0.00399	0.84121	1286.547	1081.898	1.375	5.76E-08	1.375	1457.401	2005.177
0.61412	0.95346	3723.831	3570.273	-1.17761	0.01626	0.84918	3405.977	2895.875
0.05218	0.76648	3176.711	2422.985	1.10979	0.34145	1.10979	2443.924	2733.372
0.01645	0.78739	6722.123	5321.237	1.23182	0.00046	1.23182	7431.197	9125.155
0.97793	0.96474	20.40732	23.00859	1.14101	0.90097	1.14101	26.74445	37.7386
0.00036	0.76672	3403.186	2613.788	1.11971	0.06191	1.11971	2832.852	3170.615
0.00952	0.76683	22754	17421.38	1.28187	0.0076	1.28187	20863.87	26735.47
0.45406	1.0367	2012.393	2086.286	-1.17848	0.01889	0.84855	1898.043	1611.628
0.68814	1.0221	2875.688	2946.679	-1.1332	0.04523	0.88246	2888.334	2555.361
0.71756	1.03692	534.733	553.1578	-1.0064	0.95495	0.99364	711.9855	710.8911
0.63897	1.03523	660.6624	685.5538	1.06911	0.39887	1.06911	625.4517	667.9021
0.75165	1.03979	231.1769	240.5837	1.4456	0.025	1.4456	245.8358	351.829
0.44873	1.17605	126.5688	148.9112	1.51446	0.04798	1.51446	191.0146	291.1538
0.00046	1.24866	14754.25	18458.93	2.86997	5.98E-20	2.86997	15623.04	45529.84
0.40252	1.07561	509.8307	546.4589	1.10242	0.16758	1.10242	549.8044	605.7766
0.67491	0.94496	802.4946	751.5674	1.13693	0.04588	1.13693	710.5104	808.335
0.05267	0.76786	280.6102	214.8667	1.12353	0.41555	1.12353	237.713	266.5369
0.00301	1.16957	5990.64	6998.43	-1.48831	0.00017	0.6719	7778.336	5194.252
0.04478	0.87093	3134.457	2730.061	1.21494	0.00104	1.21494	2674.105	3246.282
0.8197	0.98099	3026.083	2962.846	-1.30993	0.00047	0.7634	2623.186	2010.615
0.97125	0.99396	197.2138	195.8921	1.2095	0.26387	1.2095	223.0849	271.4386
0.54893	1.09911	214.0778	234.0998	1.07328	0.72245	1.07328	234.3635	249.8596
0.09619	1.11532	3404.933	3812.453	1.22062	0.01231	1.22062	3562.521	4340.396

0.23562	1.05776	3146.079	3322.5	1.06457	0.24648	1.06457	2994.759	3185.559
0.05262	1.09715	4116.182	4518.632	1.04335	0.32878	1.04335	6344.042	6615.902
0.84304	1.03359	301.746	305.8248	1.39979	0.00023	1.39979	369.3236	517.5504
0.87722	1.02743	159.2823	163.8117	-1.01887	0.925	0.98148	181.1375	178.2942
0.70811	1.03823	635.7376	655.9298	1.19704	0.00971	1.19704	633.5355	757.6603
0.43183	0.9428	18067.7	17118.73	1.54549	2.75E-12	1.54549	18353.52	28393.38
0.94265	0.99224	978.8536	969.3447	3.68587	0	3.68587	1135.259	4192.13
0.10335	1.22342	1486.16	1818.2	-1.06337	0.33135	0.94041	2657.633	2486.502
0.99793	1.00039	1247.146	1250.669	-1.62096	1.52E-08	0.61692	1622.005	994.2484
0.07126	1.09535	1085.445	1188.156	1.13843	0.02012	1.13843	1070.441	1218.262
0.46222	0.93695	724.8383	675.792	1.10923	0.10378	1.10923	712.6787	791.0612
1	1	17.59709	23.17253	1	1	1	17.32483	32.08516
0.8778	1.02699	2748.553	2748.003	-1.63762	4.56E-11	0.61064	4877.748	2976.581
0.42195	1.07058	34943.68	37325.04	-1.00931	0.91805	0.99077	35353.07	34913.48
0.0011	1.14235	6640.912	7586.453	-1.10717	0.23795	0.90321	7926.209	7123.75
0.08012	0.77717	424.6679	325.0732	-1.63878	0.00167	0.61021	380.8512	231.4847
0.05905	0.80689	16205.91	13145.78	-1.14784	0.19054	0.8712	15319.11	13320.63
0.27412	1.22686	224.2378	270.1449	-1.01885	0.90935	0.9815	287.6424	282.5726
0.1552	1.08434	4457.076	4822.279	1.12924	0.11077	1.12924	4209.879	4735.814
0.64035	1.19057	93.00514	113.4836	3.48505	0.00013	3.48505	75.3827	269.5438
0.84967	0.91078	78.2972	69.45349	1.57606	0.39131	1.57606	60.07866	95.15457
0.00275	0.64866	292.9621	190.8523	1.0109	0.94644	1.0109	223.5582	225.4767
0.24815	0.82232	880.5734	735.6494	-1.24391	0.01673	0.80392	652.3638	525.9207
0.09103	1.13303	698.9334	792.0126	-1.02823	0.60901	0.97254	1267.387	1232.147
0.48117	0.79668	156.865	129.5224	-1.75839	0.31129	0.5687	98.5648	57.62212
6.83E-12	0.74424	3892.763	2896.96	1.44704	1.41E-06	1.44704	3196.752	4641.239
0.11014	0.84548	11898.54	10089.8	-1.39384	0.0005	0.71744	11316.03	8067.722
0.12147	1.28319	201.3068	260.1072	-1.2657	0.5546	0.79008	148.2543	115.8428
0.89319	1.01963	715.2263	739.9347	-1.2359	0.0894	0.80913	729.4986	586.0167
0.74025	1.0248	1601.511	1644.657	-1.32062	0.00665	0.75722	1974.858	1481.808
0.21303	0.90589	13904.66	12614.93	1.36298	0.00004	1.36298	13440.92	18348.22
0.82604	0.98945	1946.204	1926.318	-1.01957	0.66957	0.98081	1596.221	1565.552
0.51944	1.06422	1285.107	1358.424	-1.03217	0.70665	0.96884	1880.03	1833.625
0.21551	0.85122	407.9952	344.1904	-1.20877	0.08244	0.82729	349.4162	288.857
0.41734	0.95907	4215.316	4036.023	1.04967	0.76519	1.04967	3543.48	3697.588
0.32291	0.86508	1592.839	1391.979	-1.25671	0.00579	0.79573	1280.924	1020.662
0.06313	1.11788	3764.376	4204.862	-1.28667	0.00045	0.7772	4211.695	3270.029
0.00712	1.11767	3427.484	3830.786	-1.19892	0.01254	0.83408	3675.165	3062.404
0.70518	1.04457	276.6526	288.8198	1.09436	0.53838	1.09436	281.5387	306.5121
0.63614	0.93431	857.4376	811.4452	-1.18534	0.00995	0.84364	1110.951	936.3131
0.54711	0.96572	2053.534	1985.934	-1.20168	0.01021	0.83217	1872.651	1561.772
0.61225	0.92415	289.9031	264.9491	2.16387	5.53E-07	2.16387	243.392	523.0999
0.16713	0.82139	561.7303	455.3043	1.25738	0.03428	1.25738	466.7203	588.8876
0.6632	1.03879	564.2747	583.8608	-1.00769	0.92461	0.99237	626.259	620.2553
0.73701	1.07163	206.974	218.0605	-1.05854	0.87422	0.9447	167.9663	152.1269
0.00064	0.75688	2738.311	2071.681	1.17421	0.00544	1.17421	2077.163	2437.232
0.98222	0.99797	887.7349	892.6388	-1.22343	0.00358	0.81738	746.4155	609.6183
0.83999	1.01417	3614.065	3657.65	1.04558	0.45422	1.04558	3241.527	3394.448
0.5827	0.96737	856.3834	828.8348	-1.12647	0.04596	0.88773	860.1955	763.3473
0.23411	1.08431	845.2705	918.1854	1.0684	0.29479	1.0684	1244.445	1330.828
0.15656	1.08215	2858.909	3080.636	1.05648	0.23765	1.05648	2829.5	2993.525
0.32528	1.14191	302.9161	348.8864	1.0981	0.3746	1.0981	331.5823	363.6895

0.06897	0.90232	963.1426	869.2811	1.13691	0.11612	1.13691	1243.551	1410.382
0.07511	1.1973	4650.085	5449.409	-2.03689	4.10E-17	0.49095	8124.235	3937.136
0.61396	1.03458	1518.163	1575.092	1.06711	0.4797	1.06711	1546.36	1646.324
0.99403	1.00116	274.0589	271.9671	1.06737	0.47931	1.06737	406.4069	433.4109
0.26591	0.83754	730.8267	602.085	1.20928	0.04732	1.20928	613.7152	745.0381
0.45257	1.14398	325.4938	364.5654	1.54326	0.00004	1.54326	272.9954	420.9526
0.81232	1.02359	718.9371	731.0053	-1.04132	0.55165	0.96032	748.1686	719.1794
0.03814	1.10355	1428.174	1575.266	1.04454	0.38184	1.04454	1703.638	1780.637
0.35517	1.07045	567.2482	606.2822	1.21921	0.00903	1.21921	521.3777	635.0892
0.61658	0.94886	588.825	555.467	-1.01504	0.91264	0.98518	488.8503	483.3908
0.11885	1.13393	882.2416	1002.276	1.00811	0.87993	1.00811	1747.766	1762.045
0.00283	0.87422	3678.175	3215.134	1.06004	0.38173	1.06004	3677.06	3897.746
0.88639	0.98947	1195.619	1175.757	-1.03582	0.53391	0.96542	1105.677	1066.49
0.41007	1.05266	832.892	877.3745	-1.43573	0.00002	0.69651	743.6732	516.8898
0.71707	1.05473	399.6603	414.8852	1.16079	0.15737	1.16079	309.7497	359.5455
0.84835	0.98483	960.1151	946.8129	1.0207	0.81026	1.0207	901.4348	918.9128
0.82308	1.01895	1486.303	1503.834	-1.07924	0.2248	0.92658	1545.939	1436.593
0.33445	1.08018	4557.711	4941.788	-1.05367	0.36071	0.94906	4617.94	4378.993
0.27691	1.13009	259.7242	293.842	1.30827	0.06233	1.30827	312.7411	408.0862
0.09901	1.4763	109.8527	162.5431	-1.62085	0.35188	0.61696	80.89052	50.01513
0.13489	1.07785	2251.851	2426.436	1.22757	2.25E-06	1.22757	2729.621	3350.819
0.8214	1.01536	3941.905	4019.992	-1.16796	0.00065	0.8562	3871.079	3316.382
0.6235	1.05499	257.345	271.3837	1.00732	0.96041	1.00732	223.6517	225.0761
0.93013	1.13473	18.59758	23.75885	1	1	1	17.16187	28.99586
0.52884	0.96299	789.013	759.8212	1.45252	2.14E-10	1.45252	698.3912	1014.061
0.77772	0.97292	1357.571	1322.627	-1.29365	0.00077	0.77301	1077.235	833.8326
0.95234	0.93417	27.98724	26.07953	1.05728	0.9603	1.05728	25.2938	33.78749
0.42764	0.89371	354.4841	320.4855	1.33498	0.05115	1.33498	268.6259	360.7045
0.13055	0.89266	638.7528	570.0386	-1.06228	0.41686	0.94137	1077.114	1011.567
0.77115	0.9785	581.9719	570.5737	-1.3085	0.00021	0.76423	595.1289	454.7911
0.89529	1.00989	1240.506	1261.06	1.07074	0.22034	1.07074	1078.714	1154.704
1	1	17.91676	24.8262	1	1	1	19.26072	30.36615
0.40022	0.85413	650.6558	564.3553	-1.44916	0.00055	0.69005	447.1626	309.0205
0.00989	0.54016	413.9009	216.4148	-1.35265	0.19655	0.73929	265.8757	196.62
0.64508	0.95273	323.3785	307.7983	-1.06071	0.71612	0.94276	337.9049	315.2807
0.79633	1.01157	2657.584	2687.98	-1.08636	0.11714	0.9205	2685.29	2467.75
0.74592	0.96938	2466.478	2417.591	-1.18905	0.02567	0.84101	2654.902	2224.069
0.85732	1.28759	23.39103	30.71951	-1.11661	0.91767	0.89557	36.61363	38.10693
0.76214	0.96042	640.9798	608.5731	1.54205	0.00002	1.54205	593.9915	920.8828
0.87826	0.98615	4869.24	4804.628	1.30255	0.00018	1.30255	4474.499	5838.12
0.00022	0.59696	14115.39	8362.075	-1.89924	5.53E-13	0.52653	11793.53	6181.145
0.72407	0.96847	1189.118	1149.269	1.34832	4.37E-10	1.34832	1151.112	1552.008
0.59018	0.93184	1115.631	1044.684	-1.17439	0.0121	0.8515	891.4921	759.6965
5.56E-09	0.69449	2946.731	2047.565	1.10108	0.12852	1.10108	2225.666	2444.675
0.00679	0.52405	352.588	180.1721	-1.07942	0.72989	0.92643	221.874	207.5805
0.44886	0.95482	7665.089	7295.338	1.06227	0.5058	1.06227	6954.904	7360.427
0.76818	1.08536	151.8008	161.0369	1.17457	0.25365	1.17457	230.2941	270.1458
0.2243	0.91059	1294.198	1175.814	1.20457	0.00264	1.20457	1172.334	1413.003
3.90E-06	0.67059	1145.532	764.3314	1.01657	0.8435	1.01657	949.6019	967.25
0.39473	0.88339	339.5587	296.459	1.10708	0.4617	1.10708	276.515	305.0873
0.27752	1.06105	800.3337	848.994	-1.02795	0.73428	0.97281	874.2888	852.946
0.74224	1.02405	1097.77	1122.515	1.04223	0.45028	1.04223	974.8973	1016.122

0.43393	1.04726	3277.154	3415.608	1.01118	0.8076	1.01118	3157.841	3195.978
0.9688	1.00429	910.6754	922.5494	-1.11707	0.08209	0.8952	884.159	790.8746
0.01478	0.82387	871.4641	720.1307	4.16664	8.69E-32	4.16664	791.9981	3318.114
0.24645	0.7393	338.3416	238.5226	1.39762	0.05903	1.39762	329.1581	466.6692
0.94275	0.99526	1782.72	1760.558	-1.04578	0.33484	0.95622	1805.335	1726.827
0.84382	1.26149	33.10012	37.43323	-1.07639	0.94433	0.92903	28.64159	33.23051
0.88808	1.00694	2284.123	2302.288	-1.08385	0.2132	0.92263	2508.941	2301.395
0.10994	1.06811	3616.224	3862.933	-1.09253	0.1115	0.91531	4105.424	3754.682
0.16011	0.81142	320.5206	262.6999	-1.37263	0.23476	0.72853	231.9051	169.4235
0.33785	1.04902	1451.728	1524.745	-1.099	0.04446	0.90992	1465.538	1333.435
0.48779	0.93877	19747.21	18673.51	-1.05804	0.39952	0.94514	20224.77	19122.17
0.977	0.9939	300.5853	303.6824	-1.28167	0.08008	0.78023	441.9309	342.2966
0.17799	1.06915	94656.84	101175.5	-1.02596	0.62375	0.97469	110552.8	107711.5
0.18818	0.86164	512.4111	438.0649	1.50804	1.37E-08	1.50804	484.6794	730.6959
0.45907	0.93578	2203.499	2059.917	1.00588	0.93207	1.00588	1976.644	1986.073
0.68687	0.97075	2454.616	2366.446	1.00307	0.96388	1.00307	2450.146	2475.379
0.58045	0.94619	671.0264	631.2061	1.60393	8.89E-11	1.60393	593.5421	950.8478
0.18439	0.83294	885.6844	743.5455	-2.0128	6.92E-12	0.49682	755.7643	374.0621
0.08698	1.11391	887.3916	988.9263	-1.36808	0.02438	0.73095	1423.712	1040.341
0.01198	1.35619	254.8565	344.3243	1.78277	0.00003	1.78277	289.0554	512.3694
0.8652	1.01568	3885.519	3958.163	1.59439	4.95E-27	1.59439	3544.612	5652.008
0.56311	0.94523	430.4883	407.6323	-1.023	0.86087	0.97752	338.3088	332.029
0.00038	0.67212	1223.111	817.1865	1.37452	0.00029	1.37452	952.9883	1317.043
0.83422	0.96816	280.4764	270.7849	-1.08542	0.62153	0.92131	263.248	244.0088
0.35799	0.8615	511.0449	432.1207	1.22698	0.05572	1.22698	424.2096	522.7106
0.00331	1.16554	14892.34	17355.79	-1.21176	0.02115	0.82525	17320.1	14247.24
0.80956	1.01809	572.949	584.2996	1.04083	0.5988	1.04083	523.7292	544.6779
0.23919	1.08823	4248.393	4564.376	-1.18967	0.00084	0.84057	6940.404	5820.222
0.88522	1.01374	12941.28	13112.02	-1.06087	0.66031	0.94262	11611.88	10942.41
0.15586	0.90771	1762.241	1595.348	-1.46381	1.67E-15	0.68315	1590.196	1086.299
0.78343	1.06189	200.6287	214.724	1.24356	0.2091	1.24356	198.8192	247.9416
0.25829	0.92436	1014.25	938.5557	3.86807	0	3.86807	900.9586	3506.161
1	1	18.62376	22.34322	1	1	1	17.24595	30.02864
0.94306	0.99307	3369.206	3360.667	1.37451	0.00007	1.37451	3065.972	4225.007
0.73704	0.95708	313.1093	301.1678	-1.03334	0.81354	0.96773	287.3483	277.2131
1.38E-06	0.79364	2216.893	1758.638	-1.35005	0.00044	0.74071	1872.525	1384.037
0.11036	0.79132	468.2241	364.2936	1.22199	0.06956	1.22199	488.4097	600.2375
0.80551	1.01587	883.4053	899.1242	-1.37352	0.00004	0.72806	834.4803	606.7528
4.13E-08	0.76204	4549.555	3460.921	-1.12054	0.18372	0.89243	4170.456	3713.933
0.16756	0.85369	524.4589	443.9838	1.38251	0.00005	1.38251	467.5827	645.7035
0.80069	1.04832	323.903	337.071	-1.34031	0.03363	0.7461	840.4782	621.2467
0.19908	0.79008	6609.101	5220.273	-1.42975	1.41E-11	0.69942	4212.188	2942.352
0.42087	0.95044	7787.775	7417.552	-1.175	0.02095	0.85106	7006.4	5918.143
0.56724	0.83597	150.224	122.2591	-1.02177	0.9414	0.9787	118.8697	116.6397
0.48146	1.05444	3033.094	3197.204	1.09225	0.03677	1.09225	3315.764	3622.498
0.01028	0.89257	2433.875	2172.709	1.39884	7.25E-09	1.39884	2467.098	3457.879
0.80464	0.98437	1962.125	1926.65	1.063	0.21066	1.063	1937.721	2060.08
0.30448	0.94492	3056.407	2885.623	-1.02222	0.63363	0.97826	3081.51	3016.23
0.39171	1.04988	4244.314	4438.969	1.00394	0.93198	1.00394	3479.226	3499.84
0.76023	1.09819	120.8846	130.6598	-1.1338	0.75715	0.88199	119.5362	105.5118
0.06917	1.12841	5983.491	6748.469	-1.48889	3.06E-07	0.67164	6561.028	4429.654
0.03445	1.14679	3723.315	4260.316	3.43137	4.37E-37	3.43137	3563.051	12282.2

0.42466	0.96192	1753.005	1686	1.5312	1.95E-17	1.5312	1597.084	2445.156
0.10477	0.82315	417.9668	346.6034	-1.01144	0.95074	0.98868	391.2699	380.8275
0.00832	0.80267	1476.52	1183.542	1.03692	0.72118	1.03692	1353.332	1403.296
0.06764	1.11097	745.7708	828.0369	-1.04261	0.49915	0.95913	901.2941	863.6827
1	1	18.85117	24.22118	1	1	1	19.01054	31.3721
0.16829	0.65391	245.6346	155.3427	1.15919	0.46304	1.15919	150.5577	174.6771
0.35676	1.15316	228.1823	261.854	1.20793	0.07985	1.20793	333.5411	402.5797
1	1	21.19794	32.42371	1	1	1	17.992	31.70302
0.48427	1.14745	163.9537	186.834	1.30663	0.24515	1.30663	150.8061	196.0324
0.00991	0.81669	1919.555	1567.588	-1.28191	0.00016	0.78009	1808.685	1410.878
0.60601	1.06177	315.926	336.5655	1.09445	0.56479	1.09445	265.1101	288.5132
9.46E-09	0.69403	2048.866	1423.428	1.10901	0.38122	1.10901	1614.538	1781.45
0.51183	1.22207	157.3669	184.9822	2.5955	4.21E-09	2.5955	139.8297	363.8066
0.98372	1.00142	829.0908	827.907	1.01636	0.84179	1.01636	724.0886	734.2402
0.30191	0.91421	2960.978	2713.147	1.03858	0.59041	1.03858	2777.355	2890.173
0.95054	1.03187	66.95297	68.86402	1.00977	0.99027	1.00977	38.37811	40.08788
0.68189	0.90978	401.6107	349.3534	1.27451	0.30092	1.27451	347.7579	458.1647
0.14018	0.8441	2473.823	2060.427	-1.15875	0.00469	0.863	2272.371	1958.808
0.79903	1.0312	765.5413	783.9419	1.05014	0.57473	1.05014	750.1694	790.4006
0.48257	0.93717	2558.051	2385.809	1.34245	0.00017	1.34245	2324.326	3124.726
0.54586	0.84487	19970.19	16010.57	-6.42346	0	0.15568	18740.86	2919.879
0.61905	1.0393	782.0866	810.1094	-1.07814	0.35213	0.92752	600.1823	556.3601
0.3525	0.75671	225.9534	160.7976	2.66015	2.38E-10	2.66015	207.3225	556.3639
0.17587	0.88232	1632.371	1434.925	1.14502	0.04385	1.14502	1475.709	1691.558
0.47193	1.10913	1351.864	1506.991	1.22215	0.03967	1.22215	1217.229	1494.78
0.99072	1.00337	121.5903	123.5841	1.05547	0.88098	1.05547	113.1935	120.9559
0.62046	0.91846	864.8855	782.4496	1.43121	0.01423	1.43121	693.9021	1006.285
0.71663	1.02025	1236.491	1263.634	1.04328	0.553	1.04328	1199.553	1248.354
0.37555	0.90871	684.0936	626.1873	1.38215	3.86E-06	1.38215	549.2456	759.5122
0.95242	1.00466	6727.145	6775.639	-1.04436	0.44876	0.95752	5705.002	5455.787
0.70421	1.02227	1532.755	1563.126	1.00811	0.88167	1.00811	1618.94	1633.293
0.99756	0.99932	170.996	172.9851	-1.06047	0.84966	0.94298	131.2222	122.4848
0.02729	1.20963	1325.414	1604.169	1.25267	0.00013	1.25267	1372.513	1717.683
0.61877	0.96901	1241.307	1206.173	-1.10591	0.11536	0.90424	1192.312	1076.021
0.7706	0.97944	1965.188	1937.891	-1.09979	0.18922	0.90927	1879.055	1698.376
0.35389	1.0443	1276.429	1332.672	-1.00101	0.98516	0.99899	1318.419	1317.598
2.84E-06	0.61111	3753.34	2282.12	-1.20614	0.00008	0.82909	2861.864	2372.452
1	1	17.42145	22.59827	1.46193	0.8184	1.46193	17.90742	36.67354
0.21639	1.17188	226.2505	264.5773	1.10662	0.46953	1.10662	255.5795	283.3986
5.40E-08	0.57285	3457.825	1961.537	-1.3433	0.00332	0.74444	2747.425	2034.795
0.10536	0.80521	311.0796	249.2553	-1.10903	0.45464	0.90169	249.3518	224.743
0.86898	1.03021	188.5131	193.0168	-1.01995	0.93388	0.98044	162.4002	160.2046
2.98E-08	0.7306	3888.31	2838.23	-1.12718	0.02212	0.88717	3236.121	2869.712
0.92624	1.00865	823.525	833.3098	2.14096	1.34E-32	2.14096	652.0387	1395.44
0.76498	0.91414	130.2976	118.4277	1.22382	0.25335	1.22382	188.331	231.1695
0.8127	1.03656	324.5934	332.8035	-1.00431	0.94462	0.99571	928.7387	925.7849
0.88244	1.11987	49.78643	52.92761	2.3439	0.06758	2.3439	52.59915	121.9768
0.07811	1.09571	968.7399	1060.973	1.54026	1.10E-09	1.54026	928.6453	1433.6
0.65903	1.09991	127.1603	139.7013	-1.09079	0.60018	0.91676	237.5429	218.3954
0.83678	1.02042	1975.534	2020.114	-1.16139	0.02304	0.86104	4331.667	3704.704
0.26943	0.93761	3606.006	3405.402	-1.18155	0.01213	0.84634	3373.941	2842.477
0.66484	1.15142	131.6194	145.6182	1.96497	0.00432	1.96497	119.3443	233.3978

0.28839	1.12122	6325.294	7093.725	-1.52097	0.00011	0.65747	8966.117	5812.204
0.08015	0.85476	1176.643	1009.43	1.056	0.44528	1.056	1482.864	1560.02
0.94734	1.01041	302.4627	301.2659	1.49096	0.00262	1.49096	243.8353	362.4542
0.99724	0.99948	1020.478	1040.481	-1.23814	0.00757	0.80766	751.7614	608.0355
0.03596	0.81433	472.0424	385.0598	1.08843	0.6482	1.08843	505.9601	538.1497
0.63449	0.88178	385.262	358.6433	-2.43577	2.39E-06	0.41055	365.04	148.5317
0.00002	0.59451	482.7177	284.9512	1.18829	0.1621	1.18829	344.0547	407.2423
0.00564	0.73094	1589.938	1152.401	-1.31983	0.00288	0.75767	1227.589	932.7275
0.02198	0.8345	2311.134	1930.054	1.03198	0.76106	1.03198	2094.427	2163.653
0.06284	1.18759	14331.28	16899.3	-2.24496	2.49E-10	0.44544	20295.45	8779.775
0.60601	1.04379	3873.72	4077.884	-1.06639	0.24508	0.93775	3713.786	3475.896
0.47856	1.03771	1238.789	1287.001	-1.02519	0.76178	0.97543	1388.262	1351.738
0.02343	0.85953	5748.541	4950.508	1.18748	0.00003	1.18748	4958.417	5887.801
0.85469	1.01207	1579.071	1592.31	-1.00814	0.86514	0.99193	1642.158	1629.046
0.86669	0.98568	3075.948	3069.618	-1.11049	0.09436	0.90051	2786.174	2509.896
0.8987	0.99121	520.8798	516.6448	1.03877	0.69375	1.03877	428.9965	446.0068
0.00027	1.55357	1492.808	2354.451	4.42282	5.31E-40	4.42282	1397.776	6228.644
0.17974	0.90412	603.3822	544.3755	-1.02425	0.84861	0.97633	582.4651	563.9114
0.4681	0.89481	651.7611	574.1775	1.52488	2.72E-07	1.52488	521.4205	796.6942
0.97369	1.00249	607.1166	610.1113	-1.04254	0.6231	0.9592	621.4183	594.7424
0.83041	0.77811	34.29945	26.0492	1.07729	0.93758	1.07729	27.88207	38.03329
0.00285	0.7384	899.4273	660.7025	-1.00951	0.90364	0.99058	758.8568	753.2974
0.86813	1.01805	515.4806	527.9268	-1.04467	0.65836	0.95724	457.2138	436.6386
0.59671	0.96876	4362.044	4206.963	1.00383	0.94057	1.00383	4328.545	4357.487
0.30405	1.13735	989.2418	1124.877	1.02692	0.69372	1.02692	889.2329	913.6764
0.9428	0.99479	6801.492	6699.658	-1.02415	0.6816	0.97642	6565.08	6435.652
0.62103	0.96196	1085.531	1039.322	-1.00929	0.89917	0.9908	1074.18	1067.288
0.06969	0.71405	563.9631	392.5111	1.01094	0.91626	1.01094	428.0813	433.9611
0.81305	0.98588	2134.843	2113.102	1.00462	0.94301	1.00462	2046.288	2047.161
0.18727	0.80837	319.2938	254.5965	-1.34622	0.09537	0.74282	272.2632	202.3138
0.04598	1.08859	2653.264	2889.003	-1.11995	0.09856	0.8929	2865.334	2572.041
0.00967	0.87013	1243.834	1082.59	1.29319	0.0025	1.29319	1058.847	1367.124
0.69588	0.98131	1459.542	1433.266	-1.05753	0.26374	0.9456	1389.736	1314.432
0.17385	1.1857	3677.314	4336.921	-2.13005	8.03E-10	0.46947	6067.664	2790.943
0.34865	1.07874	1925.771	2076.84	1.04815	0.44419	1.04815	2292.231	2404.589
0.26935	0.94321	1766.208	1664.429	1.16853	0.01412	1.16853	1719.859	2014.156
0.6338	0.91105	1908.778	1731.944	1.74817	0.00015	1.74817	1526.304	2724.773
0.0022	0.63681	1044.268	653.7216	1.04329	0.45223	1.04329	809.9557	844.8104
0.10197	0.86688	5470.491	4741.582	-1.2845	0.00346	0.77852	5696.818	4438.492
0.00407	0.81268	1837.478	1492.959	1.07736	0.13977	1.07736	2370.638	2554.377
0.50845	1.04115	772.6223	805.1094	1.28688	0.00306	1.28688	802.3721	1030.485
0.51581	0.94864	1713.695	1637.985	-1.10854	0.14429	0.90209	1555.63	1406.614
0.37262	0.86056	403.1407	339.0699	1.34951	0.00429	1.34951	379.6805	510.7726
5.57E-07	0.73968	5611.318	4165.002	-1.43216	2.03E-10	0.69825	6046.298	4220.256
0.0222	0.82322	6711.578	5492.198	-1.58455	5.27E-07	0.63109	6119.176	3848.338
0.01549	0.78803	3110.01	2449.716	-1.28018	0.00254	0.78114	2698.886	2105.844
0.25934	1.11251	2914.706	3191.494	-1.04022	0.54519	0.96133	3320.896	3217.183
0.4565	0.94257	484.2053	455.7275	-1.14893	0.16395	0.87038	517.5454	451.8564
0.45519	1.14944	251.8564	285.7629	1.04744	0.77805	1.04744	235.9834	248.1341
3.17E-06	0.62683	10186.67	6375.905	1.02237	0.80854	1.02237	8639.529	8817.786
0.05173	1.14879	2020.414	2322.186	1.04801	0.39552	1.04801	2358.759	2477.163
0.6279	1.03774	3344.008	3486.358	3.22922	0	3.22922	2901.291	9372.059

0.00802	0.85555	2318.366	1981.704	-1.19552	0.01892	0.83646	2172.562	1821.796
0.25673	1.11489	4185.443	4665.531	1.38737	1.07E-09	1.38737	4240.601	5890.056
0.02035	0.74565	2449.117	1803.718	1.22632	0.09652	1.22632	1925.375	2379.068
0.7571	0.90347	130.0244	119.491	1.43583	0.17608	1.43583	131.4889	187.1852
0.55245	0.73983	70.31258	52.62327	-1.09066	0.90289	0.91687	66.57796	60.5782
0.46617	1.03969	3915.065	4090.969	-1.03722	0.46521	0.96411	3828.075	3682.336
0.22171	0.7899	303.187	234.8848	1.86513	0.01407	1.86513	205.396	391.0889
0.83467	0.94278	125.4564	118.1636	1.27433	0.38767	1.27433	120.2288	154.3434
0.37577	1.09333	351.2137	384.7312	-1.17378	0.15713	0.85195	362.249	308.0864
0.81003	0.98862	2990.568	2958.245	1.1098	0.07678	1.1098	2912.533	3232.549
0.6948	0.98232	2397.873	2353.701	-1.08012	0.20567	0.92582	2674.475	2469.93
0.51378	1.05105	5704.337	6028.445	-1.2101	0.00513	0.82637	4956.17	4089.786
0.22068	1.0783	3614.163	3876.68	1.05934	0.32617	1.05934	2956.795	3164.407
0.31552	0.94333	948.022	893.0444	-1.07184	0.38006	0.93298	858.4921	798.8867
0.20503	1.11163	837.2745	930.1408	-1.17055	0.09951	0.8543	796.5826	678.3735
0.70877	0.97184	547.2291	532.6321	-1.00127	0.98918	0.99873	547.2634	544.92
0.40424	1.06783	3089.412	3290.812	1.10428	0.10613	1.10428	3564.1	3946.716
0.607	0.95948	897.3482	863.0193	-1.01919	0.77567	0.98117	814.7943	798.6462
0.46867	0.94663	2518.341	2393.508	-1.2115	0.03153	0.82543	2875.494	2376.195
0.51472	1.06484	826.7816	879.0826	-1.06299	0.43085	0.94074	780.6826	735.8909
0.59318	1.06235	472.7662	498.3865	-1.0209	0.80708	0.97953	499.7268	490.0592
0.12777	0.86923	1265.319	1096.775	1.26262	0.00007	1.26262	1049.532	1326.192
0.01925	0.85751	1089.25	933.7046	1.70927	0.00008	1.70927	1008.641	1727.896
0.85504	0.94879	122.9987	117.52	-1.00765	0.98536	0.99241	87.52748	86.2034
0.71948	0.95016	829.2108	779.2628	1.21581	0.03711	1.21581	725.9219	886.657
0.0038	1.15965	1052.795	1220.431	1.00492	0.93497	1.00492	1162.397	1166.74
0.14141	1.06616	1938.613	2066.664	1.04731	0.36085	1.04731	1879.774	1966.283
0.83515	0.97605	2471.726	2408.043	2.50297	6.37E-24	2.50297	2548.801	6372.933
0.74028	1.03343	440.3497	453.0336	1.03604	0.71726	1.03604	470.5686	487.1335
0.0947	0.7908	2319.889	1828.166	1.1391	0.22698	1.1391	1958.787	2250.479
0.60389	0.94323	997.7416	948.0873	-1.08489	0.50608	0.92175	693.571	643.6251
0.8	0.95254	196.321	185.4445	-1.06015	0.80428	0.94326	174.0503	165.4778
0.08403	1.2048	422.5087	505.7925	1.83688	1.25E-10	1.83688	388.9034	716.3025
0.31267	0.86091	540.8211	470.7313	-1.20565	0.01259	0.82943	813.3093	675.5431
0.68889	0.97475	710.8491	692.0753	-1.00298	0.95841	0.99702	814.8325	812.2999
0.91556	1.00759	872.7576	876.238	-1.02093	0.75518	0.9795	750.2294	734.2031
0.23716	0.94377	2066.532	1949.976	1.17206	0.06158	1.17206	2056.469	2414.343
0.09967	0.80707	3380.927	2738.525	1.02708	0.66659	1.02708	2635.482	2707.539
0.29796	0.91103	12298.26	11266.92	-1.0306	0.56765	0.97031	10556.22	10248
0.00409	0.59819	789.4247	460.3433	1.23065	0.16069	1.23065	563.3773	700.8856
0.28222	0.76871	298.6319	221.5802	1.22885	0.17489	1.22885	237.3635	292.8965
0.68446	1.03051	583.1928	599.8339	-1.05721	0.59852	0.94588	674.4686	641.0005
0.00927	0.59851	853.686	495.2651	1.03885	0.76968	1.03885	596.5295	623.5791
0.54319	1.0393	1238.053	1292.727	-1.15191	0.0373	0.86812	3472.845	2997.967
0.12781	0.78575	586.2752	451.5167	1.27706	0.00653	1.27706	435.0535	554.566
0.3444	1.07497	676.7305	725.2067	1.03716	0.54481	1.03716	734.3214	761.7651
0.90278	1.01433	560.5508	573.4779	1.0298	0.86038	1.0298	542.5488	550.7951
0.00692	0.69908	2047.25	1424.529	-1.12068	0.14591	0.89232	2043.212	1819.005
0.34296	0.90693	711.1455	649.1416	1.20971	0.04511	1.20971	557.606	676.8909
0.78587	0.92461	121.0152	111.4955	-1.00357	0.99084	0.99644	114.4249	114.4717
0.58218	1.0518	3184.738	3313.886	-1.357	0.00011	0.73692	2519.561	1879.2
0.14682	1.08577	3351.726	3643.955	1.75231	1.12E-15	1.75231	3453.066	6059.081

0.10992	1.12168	1779.529	2001.552	1.82861	3.49E-19	1.82861	1656.524	3027.334
0.72955	0.8859	189.786	156.4105	1.47752	0.0303	1.47752	152.699	225.9706
0.03662	2.03463	85.06142	167.8857	7.60228	9.46E-41	7.60228	81.42596	617.5692
0.15451	1.21069	9762.114	11824.15	-2.3526	1.12E-13	0.42506	11870.25	4976.709
0.13425	0.86899	625.0986	545.7622	-1.05747	0.49643	0.94565	506.6208	479.3267
0.15117	1.10396	1303.941	1444.219	1.09707	0.19685	1.09707	1270.114	1393.813
0.18649	1.25337	9196.961	11470.52	-3.49908	1.66E-17	0.28579	10755.11	3004.006
0.46454	0.93896	1098.812	1028.043	-1.01015	0.87197	0.98995	1633.636	1620.447
0.54561	1.15525	169.4439	191.4804	1.41818	0.15636	1.41818	123.8257	175.099
0.3039	1.05408	833.7269	878.7264	1.00231	0.96728	1.00231	946.8447	949.387
0.25909	1.1445	305.6993	351.6562	-1.03519	0.74245	0.96601	346.5021	334.7178
0.59679	0.89982	374.5831	344.4298	-1.44846	0.03908	0.69039	315.6328	216.7884
0.97965	1.02325	37.73139	40.22365	1.74161	0.67769	1.74161	24.22429	40.09467
0.85729	0.92357	94.2233	84.50427	1.09631	0.8463	1.09631	81.04732	89.74225
0.35094	0.8642	1112.503	953.371	1.1022	0.53861	1.1022	830.6314	927.2172
0.8304	0.97812	20119.88	19876.11	1.14968	0.00192	1.14968	18585.06	21371.04
1	1	17.90568	22.81665	1	1	1	17.60836	31.59846
0.66351	1.03361	2421.407	2500.64	1.10384	0.10959	1.10384	2062.307	2277.176
0.01659	0.85188	2405.161	2053.627	1.34435	8.35E-10	1.34435	2024.328	2720.43
0.07946	0.74166	253.3543	189.4274	-1.48536	0.05608	0.67324	187.0934	125.8576
0.62639	1.21591	64.23345	78.444	1.38797	0.45931	1.38797	67.86515	94.90247
0.46373	0.93084	479.558	448.3406	-1.07207	0.62423	0.93277	397.4857	367.8272
0.87566	0.96975	237.1827	233.4008	-1.03908	0.81395	0.96239	296.1276	284.6386
0.96069	1.00644	372.4728	378.7413	1.08691	0.21694	1.08691	834.7513	908.7634
0.56547	0.91596	405.0179	373.7596	-1.4086	0.03521	0.70993	344.1397	243.7523
0.71166	1.02191	1148.139	1170.654	1.10333	0.04517	1.10333	1229.311	1356.041
0.02866	1.13028	3464.7	3932.193	1.12964	0.00634	1.12964	3615.343	4084.51
0.60817	0.96482	1198.787	1161.99	-1.14532	0.16417	0.87312	1258.08	1094.579
0.19588	1.11844	3222.377	3593.349	1.16459	0.05439	1.16459	3490.04	4084.892
0.29886	1.0661	1952.011	2079.612	-1.06062	0.25213	0.94284	2139.674	2017.491
0.32234	1.09729	1245.844	1373.297	-1.46746	2.61E-07	0.68145	1504.446	1023.013
0.84382	0.96125	322.4905	296.8046	1.25024	0.15279	1.25024	355.9653	449.9768
0.53066	0.61651	53.3842	32.91594	5.55073	0.00003	5.55073	34.36166	191.3798
0.30785	1.073	2030.745	2191.6	-1.09969	0.11181	0.90934	2230.164	2033.362
0.76037	1.06577	154.1317	164.2171	-1.03619	0.89812	0.96508	153.1984	149.5955
0.89453	1.00939	1076.847	1082.365	-1.06073	0.27923	0.94275	1003.928	946.1025
0.25784	1.13972	1102.261	1253.463	1.46122	9.93E-08	1.46122	911.6981	1333.552
0.9166	1.08764	38.48618	42.62305	1.37318	0.76274	1.37318	31.18435	43.14474
0.72341	1.02616	1280.929	1306.181	1.005	0.93996	1.005	1325.7	1337.529
0.76805	0.97928	794.0994	777.3208	-1.07886	0.23179	0.9269	1694.946	1569.401
0.39042	0.86105	278.2513	236.1241	1.0889	0.49791	1.0889	279.6737	304.1375
0.92406	1.14284	21.33547	24.46421	-1.09137	0.94323	0.91628	26.98412	32.4183
0.93582	0.98753	341.8132	343.1365	1.17401	0.30172	1.17401	233.038	272.5505
0.02837	0.8248	19119.68	15839.24	1.74885	4.27E-17	1.74885	18553.99	32482.88
0.03539	1.2224	11751.78	14368.06	-2.06695	1.61E-11	0.4838	14066.05	6705.092
0.21383	1.147	1058.72	1201.211	-1.21237	0.00016	0.82483	1524.523	1258.039
0.00487	1.13897	1207.49	1375.153	1.02303	0.71565	1.02303	1287.996	1321.249
0.46914	1.05463	1236.45	1299.682	-1.04243	0.42322	0.95929	1310.532	1258.031
0.66991	0.9683	1427.807	1377.668	-1.09195	0.13963	0.91579	1304.36	1195.345
0.41577	1.0527	589.3578	620.0167	-1.1359	0.16564	0.88036	586.1635	514.5939
0.66559	1.04366	2169.912	2275.597	1.13472	0.0086	1.13472	2178.857	2473.374
0.42559	0.95586	1583.615	1510.58	1.14745	0.03196	1.14745	1480.645	1696.019

0.72582	0.9776	765.9534	747.4915	-1.09594	0.20037	0.91245	778.0507	709.152
0.05234	0.77405	398.0455	305.4789	-1.08016	0.61512	0.92579	328.6986	302.1196
0.03671	1.19764	4218.39	5071.398	-1.84489	4.68E-10	0.54204	4294.235	2334.932
0.91622	1.01234	16751.91	17252.36	1.85785	1.54E-14	1.85785	16927.29	31487.64
0.44025	1.05259	773.6007	812.5286	-1.12925	0.03788	0.88554	789.1585	698.9328

0.64507	0.97405	4961.013	4826.96	1.03484	0.4083	1.03484	4699.342	4863.636
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0.35287	1.06808	508.6617	543.0457	1.14341	0.03945	1.14341	567.9694	649.3818
0.90541	1.00724	7633.433	7700.635	1.06547	0.37662	1.06547	7545.889	8092.331
0.49438	1.0498	2389.209	2524.829	-1.1472	0.01474	0.87168	2454.314	2139.974
0.9573	0.99362	457.0423	457.5279	-1.01057	0.94112	0.98954	451.1918	442.8144
0.72531	1.01658	2097.316	2130.292	1.17458	0.00017	1.17458	2048.694	2406.244
0.2682	0.91594	13353.78	12303.12	1.24485	0.0006	1.24485	12571.93	15673.78
0.83871	0.94502	125.6241	119.5822	1.08624	0.78095	1.08624	138.1986	147.9763
0.23221	1.09281	1954.957	2128.322	1.12038	0.0092	1.12038	1960.805	2197.116
0.48267	1.09287	8109.801	8876.017	-1.79402	4.97E-12	0.55741	9529.357	5322.533
0.07157	1.11062	935.8972	1041.146	1.10766	0.14564	1.10766	1144.501	1265.908
0.80102	0.96774	293.9864	285.9392	-1.748	0.30099	0.57208	196.5418	112.4383
0.71297	0.94566	303.1457	289.6904	-1.1469	0.39543	0.87191	260.3926	226.1413
0.06953	1.14768	11580.31	13354.92	-1.1464	0.11218	0.87229	13528.5	11801.97
0.36969	1.09957	391.4838	432.5878	1.00098	0.99217	1.00098	584.6545	583.6576
0.05975	1.14951	2788.977	3226.645	1.50815	1.81E-10	1.50815	2500.329	3768.615
0.28719	1.14779	723.3236	840.2831	-2.78761	8.52E-12	0.35873	528.2473	190.8079
0.68223	0.81779	83.05904	68.73718	1.09879	0.75702	1.09879	105.7473	116.5194
0.95223	0.99075	242.3395	238.6187	1.02268	0.89025	1.02268	219.0776	224.563
1.73E-07	0.6729	556.0049	374.3348	-1.14868	0.1425	0.87056	507.7217	441.004
0.98722	0.99695	854.6512	838.2556	1.20032	0.24433	1.20032	822.1653	996.2703
0.0003	0.84191	19044.77	16057.69	2.06897	5.06E-34	2.06897	20328.23	42096.87
0.68748	1.03516	770.4187	794.0183	-1.15286	0.09245	0.86741	812.6453	706.7566
0.81903	0.90725	99.31886	87.2991	4.91494	1.08E-25	4.91494	132.3434	653.6094
0.11019	1.14059	368.2078	420.2228	1.08758	0.34692	1.08758	422.7931	459.7329
0.12635	1.08384	1981.72	2148.001	-1.16781	0.00125	0.85631	2298.608	1967.006
0.58527	1.13329	416.9341	455.5433	1.3944	0.12699	1.3944	294.0837	413.9889
0.74129	0.89599	109.9714	98.38896	-1.07826	0.84606	0.92742	98.67876	90.70406
0.00406	0.78787	691.8867	544.9804	-1.27299	0.02891	0.78555	753.5153	588.7058
0.54889	1.15795	159.342	181.221	1.25214	0.32655	1.25214	146.9781	183.1267
0.00011	0.74257	1163.307	858.392	-2.24568	1.22E-06	0.4453	381.3737	168.7924
0.62582	0.94161	1389.511	1306.287	-1.50511	7.39E-10	0.6644	1138.677	757.0488
1.33E-08	0.75238	4601.667	3461.254	-1.22062	0.00003	0.81926	4101.598	3360.278
0.84954	1.03042	275.1436	280.4055	1.10359	0.46658	1.10359	264.5509	291.283
0.34554	0.8386	1694.38	1449.011	-3.01992	2.67E-18	0.33114	983.2212	326.6376
0.60427	1.11812	177.4029	196.9996	1.28754	0.2125	1.28754	203.8535	261.2514
0.01925	1.10049	3835.774	4221.453	1.0224	0.65965	1.0224	3981.567	4066.632
0.15986	1.06717	3302.057	3521.255	1.00178	0.96761	1.00178	3613.013	3620.229
0.75432	0.9366	223.6854	205.4425	1.0106	0.96184	1.0106	173.0933	175.958
0.60123	1.05905	400.168	426.314	1.2257	0.07864	1.2257	334.4307	411.1925
0.54003	1.07008	712.7183	769.6294	-1.05025	0.72825	0.95215	969.3458	912.1373
0.38662	1.0553	638.5893	674.3048	-1.01144	0.88324	0.98869	716.2905	709.3519
0.08907	1.09139	7688.118	8403.126	1.0078	0.86563	1.0078	8485.979	8546.757
0.08363	0.91429	8554.455	7820.363	1.21631	0.00546	1.21631	8005.579	9755.033
0.1184	0.84624	661.4042	555.4913	-1.05824	0.53196	0.94496	586.1248	555.3569
0.90376	1.04473	85.36428	88.3774	1.36345	0.46328	1.36345	64.64582	88.10214
0.6248	0.92546	471.3958	443.4464	-3.09056	6.17E-08	0.32357	497.0421	158.7571
0.81724	0.98221	1326.846	1301.788	-1.06547	0.4121	0.93856	1156.782	1082.052
0.45524	1.10066	531.7787	592.7093	1.04909	0.41214	1.04909	1453.957	1527.417
0.00048	1.17763	2911.176	3425.676	-1.24659	0.00419	0.80219	2917.986	2332.75
0.51173	1.21362	134.1097	158.0622	1.76296	0.00359	1.76296	126.4442	222.8471
0.21131	1.08088	881.8362	953.1093	-1.1122	0.07852	0.89912	1871.158	1683.681
0.61086	1.0306	1445.682	1489.226	1.04061	0.43561	1.04061	1357.107	1412.237

0.96841	0.99604	410.6899	407.4943	-1.07433	0.66208	0.93081	329.2961	309.9431
0.03383	1.09041	10557.31	11513.21	-1.13678	0.03445	0.87968	11296.7	9883.101
0.62607	1.02502	1172.881	1201.778	1.20638	0.03867	1.20638	1060.95	1274.7
3.61E-06	1.27206	1204.968	1534.659	1.34016	2.90E-06	1.34016	1486.893	1993.097
0.86638	1.05613	93.59148	98.13669	1.42344	0.33886	1.42344	90.84984	127.6339
0.35183	0.90724	352.8564	319.4363	-1.11536	0.29777	0.89657	409.9222	366.7725
0.86496	1.06584	77.79819	82.34188	1.10434	0.86834	1.10434	65.2551	73.62631
0.79269	0.95767	492.7608	483.7297	-1.21467	0.01969	0.82327	523.4493	430.5353
0.35907	1.06799	983.9896	1052.639	1.55547	4.70E-15	1.55547	864.9082	1345.403
0.01385	0.82457	3820.838	3140.69	1.52729	0.00002	1.52729	3659.68	5604.459
0.85255	1.0729	87.62325	95.32997	-1.05819	0.91203	0.94501	95.94496	89.26241
0.82552	0.95545	168.6709	162.0367	1.16075	0.5689	1.16075	136.7703	159.4505
3.48E-06	0.70352	3284.581	2300.845	-1.51279	2.43E-08	0.66103	3222.63	2140.289
0.63906	0.72684	55.75809	40.55578	1.16563	0.89056	1.16563	30.39503	41.57719
0.11352	1.07318	4381.402	4699.688	-1.01752	0.74647	0.98278	4308.773	4219.499
6.76E-11	0.57967	1187.597	689.825	-1.91069	3.46E-16	0.52337	983.1604	513.6083
0.73033	1.016	2333.795	2372.523	-1.00718	0.88643	0.99287	2276.598	2260.247
0.13595	1.32919	4950.863	6857.766	2.12851	2.99E-07	2.12851	4490.179	9810.945
0.7008	1.03719	1934.312	2000.653	1.001	0.99161	1.001	2046.526	2060.941
0.00173	1.29469	2726.046	3532.24	-1.29715	0.00039	0.77092	3282.392	2541.246
0.59183	1.28635	50.55665	65.166	1.60338	0.36305	1.60338	61.66237	101.1267
0.97643	1.00171	6131.609	6175.322	-1.41404	0.00009	0.7072	6312.409	4460.74
0.35483	1.06447	1901.918	2021.098	1.01956	0.69391	1.01956	1827.495	1863.265
0.94966	0.9966	1844.55	1836.384	1.06857	0.14105	1.06857	1937.102	2070.013
0.66303	0.95797	451.4605	432.7421	-1.138	0.20782	0.87873	459.1354	404.5441
0.2238	0.89941	1128.655	1017.828	-1.02807	0.6055	0.97269	1081.627	1052.248
0.30918	1.15776	375.8821	429.3182	1.20368	0.10338	1.20368	430.191	516.5776
0.00297	1.135	4707.996	5345.511	-1.07958	0.15865	0.92628	5210.558	4826.288
0.62662	1.03337	2782.976	2894.289	-1.1246	0.11328	0.8892	2928.552	2605.101
0.00449	1.21915	727.7943	886.1425	1.38727	6.16E-08	1.38727	754.9785	1046.538
0.39117	1.06038	533.2797	565.3184	-1.05426	0.65351	0.94854	489.2817	462.2335
0.06949	0.87328	1421.548	1238.344	-1.11325	0.11967	0.89827	1307.398	1177.345
0.97617	1.00352	295.4171	297.4086	-1.25681	0.19592	0.79566	320.8875	252.4636
0.20089	0.90783	9509.258	8666.733	-1.21733	0.01078	0.82147	9923.795	8079.658
1	1	17.83792	23.09892	1	1	1	19.39729	31.78025
0.42481	0.92379	388.7281	358.0712	-1.16491	0.45314	0.85844	297.5978	259.509
0.89871	0.99254	1699.781	1693.27	1.01717	0.74856	1.01717	1746.654	1775.474
0.6967	0.97115	567.7995	552.5393	-1.08131	0.4012	0.9248	579.8006	534.6298
0.18852	0.89375	1634.633	1438.857	-1.23089	0.00049	0.81242	985.4072	800.4277
0.04349	1.20369	3085.182	3715.321	1.11163	0.01834	1.11163	3264.616	3630.703
0.17107	1.08404	2270.833	2468.548	1.03098	0.52708	1.03098	2061.237	2125.651
0.71016	0.974	2720.329	2646.686	-1.0238	0.79406	0.97675	2740.977	2673.834
0.89125	0.94744	84.46103	79.12414	-1.31123	0.64545	0.76264	72.85934	55.11979
0.71311	0.95116	367.7477	346.4106	38.16816	0	38.16816	411.3889	15767.98
0.68472	1.03754	476.3868	492.7362	-1.06409	0.54737	0.93977	452.3048	423.8126
0.74522	1.09199	134.9486	145.3387	1.11902	0.64237	1.11902	133.8327	149.3406
0.29632	0.88589	1382.951	1222.28	-2.57301	2.46E-30	0.38865	1147.335	446.7185
0.55406	1.13691	147.3443	166.3802	1.07355	0.82368	1.07355	120.5181	129.7033
0.0291	1.10422	1807.326	1994.979	-1.06536	0.26726	0.93865	2259.7	2119.159
0.0215	0.80873	770.6312	620.5932	-1.21696	0.00484	0.82172	641.4609	526.8819
0.67178	1.06004	202.3069	214.6314	-1.00587	0.97538	0.99416	216.1241	213.8549
0.86799	0.98229	277.5601	272.5322	-1.13263	0.4613	0.8829	259.8745	229.3301

0.65284	1.02363	1829.166	1873.526	-1.00543	0.91118	0.9946	2059.781	2047.296
0.04684	1.12731	944.6542	1063.824	1.12584	0.0193	1.12584	1113.638	1254.198
0.83134	1.02973	239.8093	246.5627	-1.08129	0.66716	0.92482	218.0537	200.9229
0.07215	0.76351	280.7134	215.3532	-1.29975	0.14822	0.76938	278.4604	216.1565
0.77843	0.97535	625.2999	612.5032	1.01337	0.92634	1.01337	543.1091	545.1879
0.59793	1.06372	2559.721	2722.822	-1.14194	0.10669	0.87571	3233.748	2860.206
1.10E-31	3.51025	12220.69	43407.88	6.75821	7.38E-37	6.75821	11283.04	77511.48
0.5455	1.03808	1395.144	1451.473	-1.0586	0.34905	0.94464	1411.11	1334.592
0.32327	0.8505	870.4311	728.9222	1.71324	0.00013	1.71324	715.5514	1244.141
0.08042	1.0768	2805.602	3021.833	-1.00853	0.84452	0.99154	3045.951	3020.716
0.96708	1.00578	4081.264	4073.325	-2.74691	1.97E-38	0.36404	4689.726	1715.957
0.78814	0.95592	8492.352	7926.664	-1.64317	5.04E-13	0.60858	9235.191	5618.765
0.77975	1.0581	147.8489	156.9733	2.05205	1.99E-10	2.05205	239.084	490.0048
0.88919	1.00722	1665.032	1679.563	-1.08034	0.19708	0.92563	1763.669	1634.142
0.96151	1.00524	337.1852	337.8998	1.14255	0.1976	1.14255	365.4252	417.7192
4.63E-06	0.76387	1615.426	1234.489	1.26359	0.01228	1.26359	1357.692	1710.732
0.68981	0.96552	2284.388	2210.927	-1.05284	0.43047	0.94981	2242.711	2127.71
0.48084	1.04693	1247.447	1303.435	1.46609	3.79E-12	1.46609	1228.888	1801.247
0.99907	0.99993	841.7556	841.7798	1.04268	0.70371	1.04268	847.7937	880.4172
0.14008	1.10256	2255.614	2492.198	1.11362	0.19625	1.11362	2192.646	2455.882
0.68913	0.97102	937.6528	910.0893	2.36625	1.08E-08	2.36625	789.1051	1876.366
0.48079	0.7977	158.0548	125.8873	-1.11619	0.80049	0.8959	112.4981	99.35619
0.49846	0.95489	851.6666	811.6249	-1.03461	0.59782	0.96654	650.5192	628.6802
0.87393	0.8524	31.65203	26.9982	-1.24376	0.83074	0.80402	36.79033	32.34375
0.98127	0.99666	294.5551	291.0596	1.13364	0.28919	1.13364	273.667	310.1387
0.95209	1.00605	782.0991	791.1993	1.76867	9.50E-14	1.76867	668.3985	1180.828
0.80119	0.89679	102.7345	95.29491	-1.05597	0.81296	0.947	158.6475	150.0347
0.76476	1.04973	239.6164	249.5219	1.66228	0.0029	1.66228	220.3172	370.1377
0.56894	1.07893	271.2162	291.0548	1.09942	0.54301	1.09942	239.5672	264.4142
0.52979	1.04009	827.3879	861.8038	1.06896	0.33483	1.06896	778.4498	831.0727
0.61938	0.85457	126.8697	108.0425	-1.61126	0.22	0.62063	105.7296	65.76264
0.14615	1.12489	1252.05	1411.593	-1.01531	0.87238	0.98492	1379.709	1353.657
0.29625	1.12097	355.3218	396.668	1.41341	0.03445	1.41341	359.0517	500.2189
0.71474	1.03865	1139.436	1166.682	1.10487	0.21382	1.10487	1158.027	1282.008
0.58726	1.06115	477.582	510.5245	1.20305	0.00883	1.20305	972.5966	1170.697
3.96E-16	0.48202	4309.886	2074.212	-1.99737	3.06E-27	0.50066	3421.272	1711.761
0.72461	0.96147	517.7026	501.3452	-1.16814	0.08014	0.85606	495.1122	423.3063
0.82031	0.79002	32.96991	26.04913	1.03155	0.97474	1.03155	33.17749	37.20545
0.70047	0.97867	6979.806	6861.235	-1.16612	0.02424	0.85754	6514.069	5556.415
0.29489	1.04951	1832.393	1923.53	1.27952	0.00045	1.27952	1667.661	2126.342
0.96205	0.98622	149.784	146.5972	-1.25663	0.3574	0.79578	161.6777	128.4441
0.21203	1.092	557.27	609.3945	-1.10619	0.22541	0.90401	708.0062	638.6099
0.91451	0.99005	2732.881	2735.737	-1.09312	0.18095	0.91481	2578.065	2359.387
0.5975	0.97187	1040.41	1010.623	1.16231	0.02045	1.16231	983.3539	1141.558
0.95461	0.99437	340.0527	338.0505	1.06844	0.55262	1.06844	335.5143	357.924
0.00673	1.2441	6679.191	8297.673	1.15189	0.11617	1.15189	6854.401	7941.061
0.31984	1.09864	598.8102	661.4428	-1.10905	0.1863	0.90167	573.0258	516.9149
0.55111	1.05174	790.85	831.3267	-1.09982	0.05894	0.90924	1205.187	1096.108
0.9103	1.00568	8500.88	8567.173	-1.11713	0.07161	0.89515	7767.659	6916.254
0.06327	0.86928	1690.525	1468.947	-1.01744	0.86319	0.98286	1556.621	1526.803
0.25726	1.05279	9229.463	9718.167	1.0415	0.53986	1.0415	9511.271	9861.861
0.59619	1.06429	770.4047	816.9541	-1.03753	0.6435	0.96382	1112.121	1073.651

0.33598	1.04967	2499.111	2620.809	1.1178	0.04734	1.1178	2546.337	2849.428
0.80237	1.17831	43.8775	51.59327	1.60265	0.49416	1.60265	49.66738	83.10847
0.39941	1.0517	1230.755	1293.059	-1.08196	0.24106	0.92424	1143.976	1059.175
0.29927	0.89188	1827.04	1623.624	3.75592	1.48E-22	3.75592	1711.265	6509.974
0.67884	1.03899	532.5154	550.801	1.18123	0.14239	1.18123	530.3477	630.4556
0.49658	1.04752	700.5311	734.7575	-1.11575	0.05857	0.89625	843.3272	756.0258
0.9182	1.02723	175.4672	187.5813	-1.11982	0.61421	0.893	212.1787	189.5543
0.01776	1.14803	5851.412	6739.099	-1.26851	0.0035	0.78833	6579.502	5171.766
0.40979	1.0564	2166.594	2304.041	-1.09642	0.17019	0.91206	2255.113	2043.501
0.74234	0.96698	1259.502	1209.849	1.85921	1.34E-12	1.85921	1263.803	2371.506
0.16025	1.15769	321.1497	371.6195	1.02524	0.88579	1.02524	273.7715	281.1331
0.5842	0.88763	210.2419	189.2802	-1.15875	0.15819	0.863	424.2149	365.5615
0.00441	0.53158	769.2632	393.0502	2.27491	1.16E-12	2.27491	450.7504	1034.005
0.3637	0.94626	1162.484	1096.987	-1.16338	0.0283	0.85957	1184.103	1018.833
0.76651	1.13918	89.33441	100.3177	1.04547	0.88519	1.04547	131.6599	137.7075
0.49192	0.94087	11703.68	11081.09	-1.06196	0.22444	0.94166	8502.113	8008.86
0.00162	0.71008	3615.828	2541.248	-1.11875	0.02016	0.89385	3081.179	2751.834
0.5052	0.77641	95.18706	74.42644	-1.07432	0.90914	0.93082	63.93016	58.37415
0.0057	1.14972	1014.067	1165.666	-1.199	0.02585	0.83403	1146.559	954.3793
0.97399	1.00178	1159.986	1160.26	1.02618	0.72246	1.02618	1041.187	1071.84
0.03113	1.10736	1803.566	1997.49	1.34484	8.35E-06	1.34484	2014.712	2702.148
8.25E-09	0.73839	1544.149	1140.058	-2.1082	7.39E-19	0.47434	1200.494	570.8544
0.94181	0.99428	945.1637	935.4294	1.05683	0.42597	1.05683	1015.626	1076.191
0.85798	1.01185	653.3944	661.7245	-1.40151	0.00001	0.71352	645.4116	460.7869
0.10623	0.91511	799.6195	731.5617	-1.09823	0.13975	0.91055	723.9237	658.9971
0.09272	1.08344	1185.131	1283.56	1.00475	0.94633	1.00475	1232.506	1242.362
0.9046	0.98814	2217.465	2156.205	-1.36047	4.23E-08	0.73504	2870.188	2112.593
0.79229	1.01846	1475.568	1497.618	1.35631	7.32E-09	1.35631	1369.651	1857.884
2.81E-22	0.60277	3014.969	1815.41	-1.19138	0.05269	0.83936	2376.723	1985.506
0.80865	1.02667	14342.88	14536.33	-2.43481	1.26E-44	0.41071	13428	5518.936
0.05047	0.8074	10633.98	8599.457	1.29271	0.03745	1.29271	11191.83	14361.12
0.56337	0.89779	190.8138	170.7667	1.21084	0.30228	1.21084	186.3407	226.218
0.74488	0.95744	225.7779	216.2949	-1.06168	0.81035	0.9419	203.6294	189.9013
0.95273	0.96934	65.23487	63.65724	1.62262	0.40589	1.62262	47.36423	77.62155
0.55784	1.1371	163.6648	185.5101	1.38309	0.11155	1.38309	169.8746	233.4125
0.71711	0.93679	1906.137	1765.398	-2.53752	8.44E-41	0.39409	1632.669	643.413
0.07588	1.14762	1390.265	1595.152	1.05486	0.34809	1.05486	1579.033	1669.043
0.23714	1.08318	507.4786	550.0272	-1.00847	0.93197	0.9916	471.4366	466.3075
0.22086	1.1452	5278.228	6167.516	1.92844	2.48E-32	1.92844	4825.952	9313.406
0.01059	1.12287	2482.603	2789.726	-1.0961	0.14959	0.91233	2817.619	2570.045
0.00538	1.13566	3176.041	3607.652	1.60973	5.60E-14	1.60973	3199.108	5150.826
0.56325	1.12265	37532.48	40795.17	-2.75975	7.00E-09	0.36235	50655.44	17109.92
0.70829	1.14298	76.33514	86.78305	-1.17574	0.79041	0.85053	72.13278	60.94278
0.39481	0.93775	6853.042	6468.858	-1.14703	0.06389	0.87182	6271.943	5476.118
0.63477	1.05719	2578.004	2725.441	1.00077	0.98851	1.00077	2527.803	2531.491
0.52295	0.95311	1031.07	986.7614	-1.04454	0.63398	0.95736	834.6022	802.1639
0.27977	1.07395	14685.7	15868.19	-1.11445	0.1306	0.8973	16412.96	14708.32
0.0135	0.63047	972.4338	598.865	-1.76981	0.00026	0.56503	773.2331	439.8016
0.0162	1.14724	14208.97	16386.55	-1.23434	0.00005	0.81015	16185.06	13091.02
0.03577	1.14767	9498.346	10907.67	-1.30246	0.00179	0.76778	11073.49	8478.24
0.86404	0.97575	1215.572	1168.227	-1.05091	0.54195	0.95156	1164.311	1104.759
0.97659	0.98789	87.57234	87.49348	1.17691	0.78999	1.17691	52.58591	62.2478

0.67468	1.02747	2409.879	2475.412	1.82496	6.65E-30	1.82496	2187.398	3992.58
0.86347	0.97608	271.9257	265.0895	-1.11556	0.48561	0.89641	239.0606	214.5925
0.98942	0.99022	50.96687	52.61416	-1.01323	0.98347	0.98694	63.1453	61.76756
0.92575	0.97124	110.8338	108.9198	-1.69359	0.37402	0.59046	78.0139	46.0556
0.15175	0.86	3571.864	3074.263	1.56482	9.17E-07	1.56482	2962.713	4653.923
0.47603	1.1315	293.7726	325.2221	1.2047	0.27907	1.2047	248.5011	298.2325
0.74666	0.96787	2137.619	2021.751	-1.24419	0.00472	0.80373	2400.084	1914.455
2.25E-10	0.7059	2538.952	1793.073	-1.98045	1.30E-27	0.50494	1876.632	948.8636
0.07058	1.08353	2365.358	2562.041	-1.12224	0.01114	0.89108	3079.697	2743.123
0.25797	1.09376	543.9121	593.929	1.05106	0.56156	1.05106	487.1587	511.6281
0.78491	0.7964	37.60413	29.98046	2.37038	0.29466	2.37038	26.19036	62.66365
0.71844	0.96377	534.8475	518.4919	-1.11205	0.32085	0.89924	525.0509	470.854
0.66151	1.04436	1464.888	1532.27	-1.05866	0.53421	0.94459	1142.107	1087.224
0.76521	0.97704	34275.98	33519.71	1.39701	9.22E-07	1.39701	38587.11	53766.74
0.28561	1.05698	1720.504	1815.564	1.02918	0.64706	1.02918	1768.074	1814.969
0.74754	1.04734	408.746	423.0986	-1.02908	0.79783	0.97174	403.155	391.7689
0.88674	0.96498	154.2979	146.8228	-1.00815	0.97264	0.99191	149.4188	148.5868
0.12981	1.11152	1717.824	1897.584	-1.01314	0.83923	0.98703	2592.03	2572.218
0.12472	0.80398	5549.282	4442.04	-4.28986	1.51E-20	0.23311	5083.179	1164.961
0.17001	0.90344	4204.691	3799.764	1.51654	2.66E-13	1.51654	3503.314	5313.421
0.08466	0.8054	4167.268	3366.254	-1.10419	0.31445	0.90564	3682.714	3317.409
0.87736	0.98831	576.8017	571.3852	-1.04291	0.73858	0.95886	495.6256	479.4542
0.38088	1.25283	22076.86	25802.65	-5.51346	3.71E-16	0.18137	42375.93	7178.838
0.20764	1.70018	51.27647	86.75322	1.29822	0.77089	1.29822	47.01807	56.98115
0.21344	1.07813	2390.433	2589.445	-1.0529	0.36798	0.94976	2620.269	2485.37
0.99633	0.99878	128.5515	127.84	1.55682	0.251	1.55682	92.96428	145.2949
0.41157	1.09137	593.9437	643.7128	-1.06064	0.41326	0.94283	684.1054	644.3959
0.53725	0.89804	1364.249	1235.682	-1.61447	1.17E-06	0.6194	845.3938	525.2419
0.00067	0.59859	3920.976	2326.464	1.72424	1.10E-06	1.72424	3252.866	5641.42
0.36562	1.04076	2172.739	2260.227	-1.02037	0.69693	0.98003	2183.92	2141.332
0.93542	1.03951	92.79259	97.32109	1.04406	0.89917	1.04406	124.2308	131.5878
0.64921	1.03476	1846.354	1906.534	1.14632	0.0513	1.14632	1802.772	2073.352
0.92669	0.96961	114.458	111.7208	1.12267	0.76974	1.12267	93.42881	105.701
0.9972	0.99854	106.3536	101.6808	1.10933	0.57944	1.10933	198.5218	221.1899
0.53154	0.96349	1272.749	1225.198	-1.1453	0.02468	0.87313	1299.172	1133.475
0.8027	0.95818	1047.392	1005.709	-2.46196	8.24E-09	0.40618	748.9202	306.8434
0.61556	1.04326	811.4565	842.1391	-1.00622	0.93	0.99382	1041.974	1036.111
0.00802	0.81356	1742.187	1413.969	-1.01972	0.82192	0.98066	1536.553	1507.649
0.81683	1.01417	1020.586	1035.87	-1.23504	0.01064	0.80969	1060.301	854.7561
0.83594	1.13216	48.36839	54.58049	1.00515	0.99056	1.00515	71.66762	71.88716
0.1923	1.08619	3246.014	3515.58	1.10753	0.02066	1.10753	5562.078	6155.025
0.75507	0.93164	163.9562	154.1334	-1.63834	0.20836	0.61038	144.0877	86.38033
0.46584	1.03715	4177.595	4329.756	-1.02725	0.62447	0.97347	4693.95	4574.896
0.00073	0.59254	709.4524	412.8552	-1.30611	0.05703	0.76563	580.4268	448.4055
0.1944	1.10416	945.1478	1038.297	1.09044	0.20756	1.09044	966.4183	1056.076
0.07639	1.20485	9067.68	10813.08	-2.40563	2.11E-10	0.41569	14326.98	5746.926
0.00982	1.20635	457.8506	552.8942	-1.02729	0.84838	0.97344	537.3093	517.6022
0.86305	1.0078	2301.745	2319.945	-1.03446	0.51234	0.96669	1743.599	1686.052
0.1575	1.07128	1028.649	1101.724	1.0088	0.91601	1.0088	1230.651	1238.709
0.12003	1.19323	503.4246	605.8535	1.1592	0.36695	1.1592	569.7438	653.639
0.04904	1.15237	1172.951	1349.767	1.16385	0.02714	1.16385	1374.875	1605.235
0.21886	0.84877	366.181	308.05	1.0197	0.8858	1.0197	301.404	306.2601

0.48276	1.04707	657.7666	688.8992	-1.0126	0.85316	0.98756	790.8422	780.3223
0.03477	0.80792	922.7672	745.4023	-1.3102	0.00002	0.76324	1137.362	867.0531
0.09519	1.1149	6821.893	7613.943	-1.08317	0.18563	0.92322	7720.114	7127.208
0.74958	0.87598	89.31302	79.53921	1.04338	0.93841	1.04338	81.18663	85.01843
0.89381	1.01243	443.8815	447.9674	-1.18985	0.03469	0.84045	510.2488	428.6035
0.37924	1.06845	3172.355	3373.841	1.08658	0.14492	1.08658	3758.017	4091.819
0.15679	1.10702	2750.439	3006.727	-1.53059	3.16E-07	0.65334	4881.461	3195.491
0.96408	1.00421	1021.654	1018.347	1.08067	0.12796	1.08067	1054.489	1139.39
0.01825	1.15034	1530.909	1769.15	1.23086	0.00002	1.23086	1593.517	1960.414
0.02712	0.89588	1530.732	1370.185	1.19559	0.0013	1.19559	1516.642	1811.831
0.00851	1.12377	2116.003	2377.56	1.07501	0.13773	1.07501	1793.301	1928.977
0.99778	0.99983	1988.372	1995.093	-1.10793	0.10083	0.90258	2048.877	1844.201
0.10931	0.7784	337.4439	259.4003	-1.03661	0.86242	0.96468	295.1296	281.2888
0.87537	1.02507	284.7902	290.8599	1.06988	0.66153	1.06988	283.3015	303.3379
0.47536	0.90491	240.8985	217.6537	1.00803	0.97032	1.00803	195.9172	196.1031
0.28999	0.83619	307.7818	261.5638	-2.14644	0.00004	0.46589	286.9731	134.1949
0.87304	0.96821	330.2991	321.1589	-1.03676	0.82419	0.96455	512.231	483.6329
0.88099	1.00868	1009.166	1019.631	1.08615	0.11966	1.08615	942.7106	1023.738
0.87612	1.08209	76.79769	83.60419	-1.16484	0.82452	0.85848	76.80264	63.99392
0.5812	1.02712	3250.999	3343.811	-1.06214	0.357	0.94149	3634.179	3416.465
0.7149	1.02028	3521.101	3603.487	-1.01405	0.83392	0.98614	3835.463	3771.871
0.92852	1.00494	2774.021	2778.933	1.41309	6.28E-09	1.41309	2658.538	3759.649
0.03611	1.38085	237.6968	331.3852	2.40721	1.34E-08	2.40721	235.2358	561.3023
9.18E-08	0.679	963.3584	653.0034	-1.17853	0.01702	0.84852	735.1243	624.3266
0.00416	0.79527	938.488	748.8652	1.10975	0.1278	1.10975	803.3811	890.8368
0.97782	1.00826	114.4754	114.7806	-1.03253	0.91251	0.96849	131.3954	127.734
0.12377	0.84165	1351.8	1134.549	1.38328	1.64E-06	1.38328	1139.419	1579.458
0.00886	1.1311	2197.773	2487.133	-1.11337	0.06424	0.89817	1929.128	1732.1
0.99069	1.00094	665.2766	668.0749	-1.10628	0.36126	0.90393	547.5808	497.3149
0.34974	1.06997	1868.901	2003.967	-1.0933	0.24469	0.91466	2012.87	1836.076
0.26324	1.15548	7057.17	8075.108	-1.876	1.44E-06	0.53305	10979.79	5700.91
0.6996	0.96159	1034.877	1004.959	-1.0171	0.83937	0.98319	731.1171	720.6273
0.64178	0.96985	1067.895	1038.771	-1.10726	0.09453	0.90313	1147.923	1035.241
0.09931	1.10181	1262.886	1394.797	-1.18742	0.0596	0.84216	1427.75	1198.999
0.79548	1.02025	1782.743	1812.459	-1.01582	0.76987	0.98443	1950.595	1923.543
0.36241	0.86987	271.9186	238.2211	2.1585	1.32E-10	2.1585	274.898	596.1003
0.89085	0.98803	2501.98	2482.782	-1.0895	0.32509	0.91785	2719.539	2491.71
0.89148	0.98753	353.4029	348.8443	-1.01565	0.9031	0.98459	309.9764	304.3861
0.39814	0.88712	260.4642	230.4722	-1.28635	0.18145	0.77739	221.5037	171.6048
0.00776	1.21815	16377.87	19953.11	1.04158	0.7407	1.04158	21854.8	22695.33
0.60035	0.94017	1158.566	1096.023	-1.50231	0.00014	0.66564	894.0604	597.4208
0.00002	1.36438	18903.29	26000.23	-1.11374	0.20236	0.89788	23488.96	21057.8
0.34651	0.91569	1619.462	1479.185	1.73034	6.33E-14	1.73034	1374.753	2381.183
0.35988	1.04542	2120.939	2219.529	1.45758	8.66E-11	1.45758	2197.164	3203.65
0.42886	1.04346	1873.567	1958.98	-1.00346	0.94869	0.99655	2026.584	2017.591
0.15764	0.58809	131.0725	75.39151	-2.90841	0.01694	0.34383	125.4331	43.30236
0.13386	0.90662	2737.431	2481.968	-1.0603	0.42428	0.94313	2615.763	2468.996
0.67999	0.95264	1014.052	976.356	-1.27606	0.00019	0.78366	814.0444	637.5457
0.07785	1.11254	8124.591	9077.949	-1.07253	0.35093	0.93238	8386.264	7821.936
0.78171	0.97513	1649.517	1603.376	2.08729	1.05E-30	2.08729	1371.28	2864.585
0.91249	1.01108	774.7904	785.4934	-1.07315	0.58705	0.93184	1287.116	1199.385
0.60715	0.89746	609.3063	561.4799	-3.82165	1.37E-21	0.26167	530.5032	138.5103

0.55428	1.02948	1786.636	1841.086	1.03121	0.54349	1.03121	2052.032	2118.459
0.90918	1.0426	94.91539	97.49547	-1.14907	0.76055	0.87027	108.7379	97.87817
1	1	18.45079	23.93235	1	1	1	17.6441	29.49979
0.7079	0.97694	3949.06	3878.441	-1.09895	0.06948	0.90996	4109.557	3735.947
0.41608	0.93806	626.6793	586.6434	1.02837	0.80404	1.02837	588.9404	608.5169
0.36928	1.05634	50611.97	53405.63	-1.28361	0.04619	0.77905	52228.34	40979.33
0.07404	1.07502	4799.175	5159.281	1.02334	0.70653	1.02334	5393.922	5524.301
0.90123	1.02921	165.4358	172.6606	-1.03692	0.89869	0.96439	141.7862	135.9925
0.02051	1.12909	1277.873	1445.144	1.154	0.03663	1.154	1314.347	1515.179
0.68161	1.03275	4137.374	4255.324	-1.38428	0.00059	0.7224	4005.826	2918.115
7.87E-12	0.58556	2139.204	1250.838	-1.29564	5.47E-08	0.77182	1610.544	1242.957
0.00021	0.68748	3917.776	2706.688	-1.6685	4.14E-10	0.59934	2826.492	1704.342
0.01711	0.76787	627.7609	478.1999	-1.03674	0.62987	0.96456	570.9046	551.0124
0.98477	0.9986	581.0193	581.114	-1.09708	0.19149	0.91151	621.8485	566.4655
0.48492	0.9003	3490.848	3146.21	2.17729	6.43E-12	2.17729	3213.347	7034.786
0.56453	1.03977	2291.594	2384.527	1.02296	0.71557	1.02296	2205.266	2259.807
0.39077	1.08095	814.579	876.0622	1.12402	0.15591	1.12402	780.6492	880.2383
0.67332	1.13474	88.56331	100.2118	1.48277	0.33722	1.48277	82.158	119.6499
0.88444	0.98496	2511.307	2503.681	-1.17671	0.0843	0.84983	2464.929	2095
0.62895	0.82873	99.07241	81.72074	-1.16272	0.73284	0.86005	104.8011	91.00803
0.09527	1.13211	5518.437	6227.628	-1.63457	8.12E-06	0.61178	7801.657	4696.099
1.31E-15	2.37143	12821.68	30885.75	2.3795	2.28E-14	2.3795	12777.53	31095.66
0.12909	1.07147	1708.711	1829.931	-1.05621	0.24871	0.94678	1733.446	1641.281
0.8953	1.01564	904.6762	922.7974	-1.71649	8.28E-14	0.58259	1040.431	605.0807
0.03997	0.85969	8703.891	7456.186	-1.28203	0.00025	0.78001	8299.445	6483.444
0.64448	0.9042	182.8834	164.1725	-1.70731	0.05045	0.58572	156.5076	91.70167
0.17832	0.88443	1609.969	1424.091	2.13003	4.35E-28	2.13003	1409.484	3008.025
0.09916	1.08833	5116.044	5565.774	-1.0155	0.77418	0.98473	5800.299	5732.253
0.02758	0.80334	5580.714	4512.809	1.05355	0.47789	1.05355	4732.757	4993.523
0.28524	0.8689	1223.834	1052.025	1.19786	0.12438	1.19786	936.2631	1129.699
0.63911	1.04793	355.1549	371.3564	1.11237	0.53303	1.11237	328.2251	360.117
0.36037	1.07428	1952.184	2104.879	-1.48329	1.01E-17	0.67418	2118.233	1428.063
0.01219	1.18415	5060.498	5840.413	1.05012	0.44658	1.05012	7712.707	8091.491
0.1083	1.0895	2899.964	3158.102	-1.22293	0.00008	0.81771	3147.681	2569.871
0.96077	1.01445	119.7602	121.6403	1.22251	0.56663	1.22251	108.9413	131.149
0.01105	0.72348	884.8454	634.1681	1.10686	0.30491	1.10686	832.2988	923.7249
0.74896	0.97255	3450.123	3381.9	-1.13944	0.15576	0.87763	3722.302	3227.014
0.94108	1.00612	1451.195	1435.996	-1.1129	0.05217	0.89855	1701.283	1530.802
0.55866	0.9111	1009.448	934.4362	-1.50413	0.00014	0.66484	657.4442	439.1567
0.7318	1.02156	1200.564	1224.521	1.03423	0.5733	1.03423	1563.723	1612.816
0.00036	1.17958	8597.391	10131.58	-1.23254	0.00801	0.81133	9869.227	7938.965
0.5048	1.03625	1238.282	1284.356	1.08003	0.1249	1.08003	2107.072	2273.118
0.02562	1.14162	2616.484	2990.788	-1.03899	0.37885	0.96247	3024.995	2910.699
0.61129	0.97324	853.9204	830.9282	-1.23475	0.00998	0.80988	786.4235	635.6298
0.07114	0.88838	1832.135	1626.516	1.17568	0.05648	1.17568	1696.493	1996.073
0.18176	0.88747	9424.576	8359.82	2.08198	2.24E-17	2.08198	8222.129	17155.46
0.11238	1.11478	4067.202	4563.389	-1.18594	0.00113	0.84321	5858.543	4941.017
0.95163	1.00583	2534.818	2554.783	-1.45954	0.00003	0.68515	2667.579	1815.919
0.00896	0.87042	1341.304	1167.628	-1.17941	0.05831	0.84788	1108.552	937.9199
0.41623	1.04496	7095.595	7425.428	1.30013	0.00326	1.30013	6331.784	8265.998
0.82974	0.96304	166.4066	160.3904	1.15469	0.33056	1.15469	269.3483	310.4547
0.02583	1.27512	1772.345	2273.665	2.46575	1.39E-32	2.46575	1629.301	4029.039

0.19364	1.10215	879.577	966.5298	-1.39048	0.00004	0.71918	965.4224	693.3046
0.58071	0.94281	700.5608	656.3659	-1.14295	0.20759	0.87493	630.2988	553.9319
0.00322	0.83117	1348.292	1118.968	1.00477	0.92613	1.00477	1323.93	1330.058
0.00143	1.14462	20015.16	22909.15	-1.23599	0.00206	0.80907	22263.23	17949.46
0.94333	0.99387	592.1472	590.8557	-1.34307	0.00342	0.74456	639.5726	477.9133
0.78961	1.04126	604.5815	638.6652	-1.49794	0.08835	0.66759	548.9351	366.623
0.0888	1.12685	624.2775	702.1283	-1.06901	0.51298	0.93545	678.2855	636.3261
0.09745	0.82499	784.8648	651.2554	1.04295	0.79415	1.04295	645.1138	665.4941
0.59918	0.97583	16295.46	15906.19	1.09396	0.14615	1.09396	16009.13	17539.08
0.66913	1.03822	868.6121	896.5834	1.04197	0.64774	1.04197	985.887	1030.283
0.36643	0.93346	803.9404	748.4535	-1.10238	0.0915	0.90713	755.4204	685.2712
0.80652	0.89971	90.95384	83.53347	1.19703	0.75559	1.19703	65.97252	79.14397
0.0011	1.30529	4275.721	5573.431	-1.28289	0.00318	0.77949	5780.424	4460.679
0.04376	0.85838	789.0903	675.2189	1.0783	0.31136	1.0783	689.2814	744.5973
0.32231	0.91525	454.7415	417.0093	-1.08897	0.3243	0.9183	578.5678	530.6565
0.00033	1.42844	882.0875	1270.511	-1.54874	0.01553	0.64568	2158.889	1385.343
0.59067	1.05527	1016.254	1078.182	-1.11895	0.29559	0.8937	1216.736	1082.634
0.53126	1.07197	469.0667	501.5148	-1.09524	0.32335	0.91304	650.0886	592.5797
0.61881	0.92375	223.3628	205.5562	-1.21932	0.25603	0.82013	230.1534	188.7356
0.33863	1.05003	1722.167	1805.985	-1.08258	0.10504	0.92372	2453.433	2262.545
0.06619	1.10794	24608.57	27227.97	-1.00029	0.99704	0.99971	26254.24	26158.81
0.13595	1.08641	1498.85	1624.367	1.02186	0.65072	1.02186	1609.922	1644.345
0.22072	0.93495	1367.357	1276.792	-1.0305	0.5721	0.97041	1331.98	1292.778
0.25167	0.9151	554.1607	506.4859	1.67621	1.91E-11	1.67621	484.3127	810.8869
0.67368	1.37445	37.62093	50.33125	-1.30935	0.80795	0.76374	43.36813	31.7934
0.42608	0.86004	3110.04	2673.207	-1.79696	1.80E-07	0.5565	2922.413	1608.469
0.30209	1.09887	580.9921	635.7799	-1.09597	0.29415	0.91243	640.736	583.0919
0.02983	1.36241	13267.81	17877.54	-3.09674	5.52E-10	0.32292	23855.83	7354.158
0.84481	1.01636	2653.943	2699.751	-1.11504	0.02633	0.89683	2683.335	2409.221
0.0368	1.1911	3190.259	3771.418	-1.4377	0.00032	0.69556	4594.118	3169.244
0.81721	1.03292	770.3834	787.9282	1.4615	2.15E-07	1.4615	784.7658	1147.564
0.00004	0.60383	8064.771	4905.666	-1.79043	2.27E-12	0.55852	5698.338	3208.326
0.05975	0.7241	222.0314	160.0871	1.07006	0.77344	1.07006	136.0544	145.8261
0.5986	1.07126	311.7321	333.9509	1.13256	0.39687	1.13256	280.5036	317.6672
0.47729	0.87161	1909.833	1633.217	-2.47114	2.31E-17	0.40467	1794.763	720.7444
0.89391	0.98094	1061.205	1055.554	-1.14036	0.04185	0.87692	1696.969	1492.922
0.84173	1.01796	932.2321	944.88	-1.02382	0.79703	0.97673	1066.894	1046.165
1	1	18.14872	23.8468	1	1	1	18.85053	29.7559
0.04579	1.22495	919.4605	1123.399	1.35729	0.00017	1.35729	1104.721	1497.638
0.70076	1.02312	1424.678	1456.589	-1.06985	0.22124	0.93471	1856.934	1733.274
0.56085	0.85433	397.91	350.272	-1.77665	0.00612	0.56286	268.324	149.8692
0.00576	1.1695	2689.541	3152.163	-1.03065	0.63311	0.97026	2894.468	2811.415
0.71422	0.93643	722.3258	685.4222	-1.68821	0.0198	0.59234	621.8147	366.36
0.37677	1.04512	9061.279	9468.44	-1.12805	0.00638	0.88649	8788.176	7788.264
0.02569	1.09478	54932.08	60135.84	-1.05093	0.45744	0.95153	62778.12	59744.2
0.34748	0.93296	5054.184	4687.516	1.12684	0.03987	1.12684	4402.718	4983.041
0.1203	1.08538	5751.835	6240.272	-1.03244	0.59112	0.96858	6248.8	6055.239
0.8279	1.01984	824.6788	841.7479	-1.11791	0.36372	0.89452	1344.605	1172.889
0.65977	0.96875	5709.312	5557.832	-1.10588	0.16972	0.90425	5718.406	5161.508
0.97463	1.00766	127.0064	128.2444	1.00878	0.97722	1.00878	112.1098	113.5879
0.9001	1.09143	53.84488	57.21075	1.2435	0.51455	1.2435	94.08423	116.5909
0.82906	1.02819	1573.415	1599.601	-1.75412	0.00005	0.57009	1813.001	1016.745

0.05093	0.70073	25737.67	17855.81	-1.22378	0.02662	0.81714	10357.45	8394.389
0.95494	1.00517	795.1736	796.665	-1.02195	0.76593	0.97852	787.3462	769.0092
0.39457	1.05243	1278.411	1348.979	-1.04742	0.57564	0.95472	1257.298	1197.21
0.86188	1.01178	4991.86	5059.707	1.18334	0.04533	1.18334	5255.433	6215.54
0.97075	1.00879	159.0573	158.2932	-1.49955	0.16783	0.66687	135.0637	89.93758
0.01618	0.41856	236.6957	95.11045	1.07833	0.83441	1.07833	143.1401	152.2914
0.11065	0.87384	8744.01	7606.406	-1.11823	0.09787	0.89427	8096.304	7253.355
0.94962	1.0054	506.2804	510.507	-1.17016	0.10888	0.85458	435.2598	371.5107
1	1	17.7044	24.78384	1.13554	0.92071	1.13554	27.05414	35.42413
0.85138	1.01328	1009.211	1018.236	1.03602	0.49256	1.03602	1000.004	1036.02
0.9349	1.04475	62.9822	65.66248	1.36172	0.55127	1.36172	62.95087	86.74609
0.11212	1.07388	3138.886	3366.778	-1.05085	0.36432	0.95161	3257.359	3107.841
0.19232	0.90749	725.535	659.3916	-1.01255	0.88826	0.9876	921.3156	910.4527
0.77497	1.07256	117.3587	126.0667	-1.15938	0.61889	0.86253	130.2116	111.7386
0.74073	0.93619	192.1873	179.1011	-1.09352	0.65998	0.91448	234.118	213.5548
3.29E-12	1.86409	37161	68764.63	1.11159	0.32749	1.11159	50699.1	56087.43
0.48853	0.89483	994.1962	899.0773	-1.62714	0.00018	0.61457	728.8944	450.5994
1.05E-16	0.66205	2074.316	1372.833	1.09011	0.07584	1.09011	1668.511	1819.237
0.9654	0.99178	9076.188	8209.011	-3.12487	0	0.32001	11152.5	3566.803
0.91635	1.00826	1344.172	1349.729	1.03256	0.56358	1.03256	1400.219	1447.845
0.11722	1.09549	1681.828	1843.317	-1.11208	0.12375	0.89922	1855.99	1666.332
0.89313	1.04683	117.4211	119.9386	1.06909	0.86581	1.06909	139.2786	140.7729
0.5464	1.0255	3519.013	3608.007	-1.07851	0.10029	0.92721	3589.883	3325.663
0.19283	0.88691	14041.47	12533.39	1.40937	0.00037	1.40937	17043.84	23964.57
0.42759	0.94694	3510.609	3348.032	-1.04128	0.59871	0.96035	3715.303	3570.895
0.72004	1.12505	83.18259	93.8241	-1.36601	0.57046	0.73206	81.0345	59.19511
1.28E-09	0.67908	3143.124	2137.097	-2.17711	0	0.45932	2334.171	1072.48
0.00971	0.57946	436.2974	244.3331	1.05426	0.6491	1.05426	339.9509	359.0322
0.36341	1.06541	631.7355	672.213	-1.35316	0.00046	0.73901	732.5341	539.9977
0.80607	0.97541	606.6921	587.986	1.03798	0.66845	1.03798	527.6956	548.75
0.49287	0.95512	5251.948	4989.757	-1.09593	0.16283	0.91246	3704.785	3375.968
0.16327	1.06637	5672.976	6049.308	-1.09477	0.03075	0.91344	5895.778	5384.371
0.3718	0.9114	408.817	371.2023	-1.03064	0.76827	0.97027	392.3132	381.3111
0.58527	1.02418	3057.224	3130.084	-1.06068	0.19643	0.94279	2889.516	2723.189
0.01395	0.56844	9311.164	5104.068	1.24501	0.14447	1.24501	7131.625	8933.168
0.00078	1.19256	5629.559	6705.078	-1.66343	0.00057	0.60117	7621.06	4503.847
0.19082	1.07679	3188.925	3424.917	1.01741	0.70667	1.01741	3246.678	3305.291
0.01513	1.13192	2367.14	2677.571	1.13513	0.00324	1.13513	2493.781	2831.376
0.94928	1.0079	1193.152	1196.076	-1.41527	0.00086	0.70658	1205.214	854.6047
0.43127	0.92387	8163.762	7535.324	1.00014	0.9986	1.00014	7368.12	7376.863
0.00305	0.86891	2137.677	1856.318	1.03271	0.50941	1.03271	2484.084	2565.062
0.27847	1.05086	1796.328	1887.531	-1.11795	0.0433	0.8945	1983.382	1777.143
0.44842	1.04577	817.1581	854.0607	1.09048	0.28025	1.09048	764.7554	832.0021
0.69281	0.8706	90.69506	78.52248	1.09623	0.8537	1.09623	76.24342	83.45767
0.78566	1.02953	1179.5	1205.893	1.30504	0.00028	1.30504	1093.942	1429.31
0.11221	1.13681	402.238	457.185	-1.57297	0.00055	0.63574	340.8671	216.4321
0.52382	0.84481	181.099	149.0765	1.52494	0.01535	1.52494	184.0517	281.8692
0.65604	0.97396	1541.479	1503.384	1.11087	0.29504	1.11087	1345.979	1491.327
0.09814	1.08558	4049.858	4409.037	-1.10821	0.071	0.90235	3972.134	3575.247
0.35925	0.78544	443.5541	365.5526	-5.22673	8.92E-07	0.19132	255.5241	49.69305
0.75433	1.1641	67.85046	78.96976	-1.03748	0.94798	0.96388	70.2809	67.1509
0.1433	1.0737	6063.984	6510.093	1.67175	1.21E-15	1.67175	5960.842	9974.449

0.88383	1.0184	818.514	841.8463	-1.24357	0.01593	0.80414	736.761	594.0225
2.33E-09	1.37102	4197.098	5764.352	-1.80551	6.12E-09	0.55386	4797.167	2665.326
0.5958	1.03406	2070.311	2134.022	-1.10836	0.08376	0.90223	2226.75	2010.104
0.03661	0.8983	20149.04	18005.84	-1.01468	0.93599	0.98553	18465.52	17667.32
0.44062	1.0412	2607.283	2708.461	-1.13235	0.02606	0.88312	2878.711	2541.334
0.68024	1.03863	1620.887	1682.704	1.19403	0.02313	1.19403	1424.708	1702.261
0.49188	0.89056	199.9764	177.8138	-1.05471	0.81894	0.94813	189.2311	181.4428
0.75561	0.94379	430.6984	417.6204	-1.80849	0.00079	0.55295	403.4191	222.1622
0.22693	1.08683	936.4465	1016.41	1.69227	5.61E-23	1.69227	799.1922	1352.446
0.502	1.04065	4018.007	4186.86	1.48309	4.57E-11	1.48309	3491.017	5176.514
0.08369	1.08423	9419.475	10251.92	-1.02276	0.70129	0.97775	11800.83	11540.63
0.83992	1.02576	300.9009	307.0767	1.18094	0.24891	1.18094	228.8362	270.0725
0.05702	0.89602	3255.385	2916.123	-1.08488	0.20271	0.92176	2893.375	2670.237
0.6807	1.58598	20.60266	32.88296	-1.06523	0.95841	0.93876	28.77178	34.20872
0.6894	1.03182	1047.73	1082.345	-1.55382	2.13E-15	0.64358	1020.803	656.9551
0.25336	1.05988	3927.132	4173.967	-1.24216	0.00292	0.80505	4350.936	3478.141
0.98167	1.00246	760.1581	768.5393	-1.21099	0.00607	0.82577	757.0304	624.574
0.04202	1.12833	1299.464	1467.821	1.27605	0.00071	1.27605	2869.033	3660.291
1	1	18.26566	23.95507	1	1	1	21.623	29.64857
0.61074	0.88087	255.7309	207.5599	1.09587	0.31288	1.09587	535.1592	588.0608
0.85459	1.29033	22.06923	28.21905	1.08607	0.93705	1.08607	29.89402	39.52554
0.83076	1.05339	145.0557	152.5792	-1.44882	0.29518	0.69022	173.4494	122.9487
0.33019	1.05076	3385.941	3558.931	1.50398	6.87E-20	1.50398	2891.679	4349.842
0.64211	1.029	827.6173	853.0281	-1.00585	0.93008	0.99418	839.1085	833.0801
0.35323	0.93804	2026.155	1873.354	-1.0611	0.22634	0.94242	2387.739	2250.376
0.6961	0.97511	1101.369	1073.898	-1.40025	1.17E-09	0.71416	1557.895	1112.559
0.97336	0.99612	602.1888	596.6673	-1.10879	0.15703	0.90188	678.8694	612.9238
0.75334	0.9644	2859.748	2748.185	-1.66924	6.65E-17	0.59907	2797.56	1671.977
0.87507	0.98835	738.5104	730.7182	-1.12617	0.25555	0.88797	903.3507	797.7593
0.29338	1.04703	4113.43	4306.784	-1.28558	1.94E-08	0.77786	4367.691	3396.031
0.97117	1.00519	326.3944	327.5346	-1.01868	0.88564	0.98166	316.5395	310.6846
0.00006	0.45027	6061.621	2598.034	-1.16807	0.22933	0.85611	3804.853	3283.566
0.4337	1.16465	237.6693	281.7756	-1.20193	0.34518	0.832	270.8458	222.5649
0.23565	1.0652	2044.237	2184.831	1.06569	0.33062	1.06569	2189.75	2333.221
0.33979	0.87121	242.5521	211.0328	1.05895	0.76531	1.05895	198.5824	211.3758
0.61566	0.91354	215.3354	196.8595	-1.02861	0.88993	0.97218	232.1433	222.9451
0.5809	1.03243	1682.27	1741.323	1.06173	0.39919	1.06173	1933.62	2051.24
0.07736	1.27433	502.652	633.2513	2.58071	2.75E-28	2.58071	444.7103	1149.481
0.43229	1.05408	493.7092	520.2824	-1.13992	0.2262	0.87725	538.3293	473.8829
0.70959	1.021	2077.537	2119.679	-1.14275	0.00605	0.87509	1714.168	1499.762
0.85282	0.93433	85.81808	80.14623	-1.01336	0.98154	0.98681	68.47137	68.08167
0.9402	0.99325	2109.6	2092.358	-1.02915	0.76242	0.97167	1780.933	1740.662
0.00008	0.81725	3009.084	2455.448	1.03345	0.55176	1.03345	2808.042	2897.437
0.78933	1.08205	144.8283	162.3556	1.14884	0.42534	1.14884	191.1559	220.103
0.02754	1.15336	1759.436	2023.348	1.23111	0.00002	1.23111	2074.412	2553.817
0.76653	1.02124	921.7816	940.0698	1.27008	0.01134	1.27008	869.5015	1100.089
0.03876	1.14334	798.2261	911.3283	1.15209	0.07631	1.15209	779.9393	896.183
0.51223	1.0442	3490.136	3620.4	1.0189	0.66858	1.0189	3420.809	3487.55
0.66656	0.85258	82.42577	70.44133	-1.19014	0.83109	0.84023	61.89598	49.7953
0.13408	1.14806	1148.331	1322.605	-1.09813	0.15331	0.91064	1636.304	1485.612
0.29723	0.94306	1217.542	1149.876	3.57383	0	3.57383	1178.018	4222.997
0.0029	1.15552	7729.48	8935.686	-1.52182	3.99E-11	0.65711	8761.031	5743.298

0.0346	0.89254	1279.34	1142.125	-1.48549	5.42E-13	0.67318	1289.411	868.3216
0.65859	1.07436	305.7874	324.7226	1.05456	0.64259	1.05456	292.3351	308.2316
0.45819	0.96211	1603.7	1545.364	-1.07111	0.33977	0.93361	1557.436	1451.514
0.85857	1.08835	67.94157	74.06729	1.07903	0.84277	1.07903	111.9893	123.8487
0.52414	0.93439	798.6666	752.8049	-1.11964	0.09199	0.89315	889.0189	794.7006
0.53204	1.05437	1518.529	1617.047	-1.08248	0.41342	0.92381	1510.337	1395.304
0.41425	1.03811	4057.193	4209.624	-1.12399	0.03244	0.88969	4391.902	3909.421
1	1	18.71745	24.53483	1	1	1	18.22206	31.86569
0.45075	1.12007	188.1493	211.0201	1.14537	0.26867	1.14537	416.4631	473.6169
0.90592	0.99086	2385.587	2388.914	-1.0001	0.99906	0.9999	2362.04	2367.662
0.13143	1.0885	2455.224	2676.492	-1.11735	0.00999	0.89498	2990.036	2676.302
0.84939	0.9828	682.4456	670.5414	-1.13863	0.06264	0.87825	941.0228	827.9388
0.75273	1.06377	133.586	142.1411	1.64276	0.02279	1.64276	111.6217	183.2495
0.97044	1.01052	147.1274	152.4713	-1.09078	0.55124	0.91678	271.6337	249.41
0.47204	1.08883	411.5847	444.3734	1.21733	0.08695	1.21733	371.9163	451.1467
0.6696	1.03511	534.8286	554.485	1.48759	0.00611	1.48759	489.154	722.7324
0.76599	1.08646	99.60163	108.1524	-1.08525	0.80051	0.92145	113.178	104.8708
0.98341	0.99281	128.2455	130.2612	-1.27551	0.5981	0.784	123.7311	92.69685
0.9804	0.99842	9593.573	9557.365	1.08396	0.19272	1.08396	9467.281	10288.39
0.8298	1.19289	33.6249	39.89118	-1.00971	0.99436	0.99039	23.61982	31.8849
0.00026	0.6614	7340.059	4823.544	-1.23309	0.01322	0.81097	6193.154	4988.466
0.52398	0.96287	1953.18	1879.024	1.06661	0.14484	1.06661	1890.563	2016.485
0.07201	0.82445	4937.069	4070.142	1.30309	0.01088	1.30309	4065.8	5304.899
0.96342	0.95184	33.11683	31.6294	1.68946	0.59537	1.68946	38.73306	62.13378
0.28525	1.17355	574.0425	684.1521	-2.77218	2.39E-09	0.36073	410.4807	147.1628
0.34847	0.91767	443.6658	406.0419	-1.17763	0.13696	0.84916	413.7118	350.5864
0.99249	0.9991	654.3739	657.3873	-1.11017	0.36082	0.90076	706.3805	632.2747
0.05701	0.90536	4188.521	3785.085	-1.0348	0.70975	0.96637	3441.193	3316.439
0.08311	0.91195	832.3347	759.0204	-1.05083	0.5698	0.95163	727.2347	689.8828
0.22165	1.06236	3854.851	4089.115	-1.03836	0.41212	0.96306	4557.333	4385.384
0.64044	1.50688	38.29209	56.07644	1.06156	0.90596	1.06156	77.78856	82.07642
0.29124	1.15196	221.3695	254.4372	1.10587	0.61847	1.10587	243.3286	265.533
0.30044	1.04516	2296.471	2399.928	1.13262	0.00443	1.13262	2412.231	2733.069
0.00024	0.66942	385.2368	257.9251	-1.25289	0.19315	0.79815	324.342	259.3808
0.10005	1.12125	977.6496	1094.545	1.10986	0.24281	1.10986	855.2547	944.8814
6.54E-07	0.67947	1232.411	836.434	1.05359	0.53837	1.05359	1043.989	1098.519
0.54746	1.06004	465.6986	491.4519	1.76476	1.72E-07	1.76476	478.0815	841.1566
0.0297	0.82842	2077.51	1717.732	1.80851	5.95E-25	1.80851	1851.031	3353.74
0.92727	0.97836	157.0821	155.698	-1.05975	0.80061	0.94362	151.4154	142.5338
0.96317	0.99811	7492.687	7480.358	-1.06899	0.16047	0.93546	7339.542	6861.653
0.47589	1.07235	1047.872	1121.663	1.55416	4.19E-15	1.55416	942.9822	1466.699
0.02145	0.83865	1039.879	871.2526	1.46289	0.00011	1.46289	827.389	1206.901
0.69612	0.96101	2845.778	2766.04	-1.15604	0.08546	0.86502	2939.866	2538.073
0.50033	0.90449	4067.654	3675.053	1.93392	3.01E-08	1.93392	3631.355	7099.072
0.48924	1.03545	2707.168	2803.849	1.2753	0.00002	1.2753	2542.33	3239.203
0.17083	0.85945	11063.53	9543.166	1.85631	4.70E-09	1.85631	11414.54	21318.63
0.76343	0.98126	1055.509	1037.849	-1.2695	0.00127	0.78771	1126.882	885.4218
0.45224	0.87757	795.2197	706.7064	-2.36965	0.00002	0.422	526.269	226.4445
0.96959	1.01812	65.45461	66.6933	-1.39688	0.57513	0.71588	85.99546	59.6762
0.13521	1.24935	344.7399	438.407	2.27788	2.13E-09	2.27788	371.1107	840.1868
0.08013	1.08936	2055.557	2241.866	-1.35738	2.96E-06	0.73671	1821.079	1345.303
0.42161	0.86535	449.8457	395.7321	-2.06869	0.00908	0.4834	268.994	133.1549

0.56998	0.93314	365.8862	343.7399	1.05381	0.74911	1.05381	350.1743	365.4801
0.86329	1.073	82.4594	87.80277	1.10987	0.63948	1.10987	138.429	153.8752
0.8108	1.06743	123.7447	131.9255	-1.06908	0.74723	0.93538	158.0807	147.9782
0.48497	0.55611	58.54536	32.24133	-1.58902	0.569	0.62932	54.96394	34.79836
0.62785	1.0235	5225.625	5344.437	-1.08867	0.08386	0.91855	5208.501	4783.439
0.02925	1.15314	14896.51	17276.88	2.84347	9.72E-31	2.84347	15519.53	44454.4
0.39183	1.05068	3766.664	3942.224	-1.02028	0.73444	0.98012	6187.377	6032.088
0.19693	1.07394	809.822	869.947	-1.0142	0.81767	0.986	726.9895	716.7252
0.07587	1.17019	370.8715	434.347	1.21239	0.07085	1.21239	432.6652	522.4531
0.35742	0.94498	1094.928	1035.294	-1.43904	0.00102	0.69491	1119.185	777.4497
0.74053	1.03014	3140.703	3240.719	-2.03244	1.96E-44	0.49202	2880.711	1417.647
0.12342	1.07186	3439.689	3684.066	-1.02463	0.56538	0.97596	3913.205	3818.565
1.48E-06	0.61127	1811.286	1096.979	-1.27424	0.00734	0.78478	1299.062	1023.378
0.38046	0.9208	480.217	443.8694	1.32262	0.00082	1.32262	390.5696	516.5444
0.03783	0.84197	10180.93	8587.613	1.38402	3.35E-14	1.38402	9348.57	12938.82
0.88942	0.99075	4052.175	4034.578	-1.09776	0.16273	0.91094	4304.128	3931.854
0.06088	1.08072	5915.205	6394.122	1.02542	0.6043	1.02542	6365.519	6527.044
0.80781	0.95708	203.6092	194.5377	-1.03609	0.86941	0.96516	188.1541	181.6724
0.81446	0.97364	710.9668	686.0899	1.06328	0.59951	1.06328	710.5836	759.8528
0.32491	1.31115	103.0063	134.7382	1.00326	0.99485	1.00326	102.647	102.7053
0.13999	0.87634	1463.943	1277.419	1.20416	0.01921	1.20416	1284.788	1553.205
0.83707	1.14784	57.7164	64.9912	-1.081	0.8839	0.92507	60.63237	56.11993
0.49241	0.96985	2352.788	2281.42	-1.00071	0.98731	0.99929	2302.466	2300.082
0.38226	0.96465	3689.724	3559.538	-1.08335	0.13707	0.92306	3478.722	3199.731
0.00311	1.15664	7218.343	8347.361	-1.24353	0.00236	0.80416	8823.531	7088.892
0.7482	1.01496	3050.912	3093.171	-1.00563	0.9352	0.9944	2992.661	2991.005
0.82901	0.96824	286.0934	275.9809	-1.06111	0.64194	0.94241	258.6973	243.8265
0.03625	1.1617	507.8478	590.6614	-1.02906	0.83684	0.97176	558.9011	538.6896
0.02574	1.17521	2349.577	2741.18	1.31699	3.27E-10	1.31699	2429.429	3199.245
0.02331	0.76864	10304.24	7908.785	-1.1626	0.21346	0.86014	9976.647	8484.701
0.21503	0.93155	2518.687	2347.014	1.40814	4.28E-10	1.40814	2189.518	3082
0.85679	1.20602	69.73593	84.10314	1.02707	0.97572	1.02707	52.49699	58.48451
0.77364	0.97176	492.1771	475.8702	1.93253	4.63E-18	1.93253	506.7448	980.6199
1	1	19.72187	23.89419	1.45445	0.68009	1.45445	43.2372	71.43925
0.29485	1.05998	1218.964	1291.671	1.18222	0.05933	1.18222	1231.437	1454.086
0.5948	1.03457	718.196	743.1431	-1.03311	0.62375	0.96795	1160.901	1125.967
0.74545	0.96339	447.4293	434.4476	1.02872	0.86725	1.02872	372.564	376.9713
0.95616	1.00362	1599.398	1601.911	-1.04397	0.43521	0.95788	1457.732	1398.093
0.59937	1.03966	4152.233	4299.84	-1.01235	0.79436	0.9878	3967.684	3918.105
0.0001	0.76248	2270.149	1726.584	1.30422	4.43E-06	1.30422	1732.352	2257.965
0.09211	1.3487	310.434	411.1356	9.56583	0	9.56583	322.9544	3089.438
0.86145	0.98499	7595.795	7534.597	-1.11009	0.20554	0.90083	8193.802	7388.549
0.24977	1.07297	1465.37	1575.219	-1.0367	0.56126	0.9646	1582.509	1523.391
1	1	18.22859	23.77554	1	1	1	18.68916	32.71854
0.00274	0.7773	634.5646	494.5301	1.19353	0.23755	1.19353	532.3037	629.328
0.00994	0.80724	2031.541	1628.541	-1.29078	0.01213	0.77473	1764	1371.535
0.23128	1.054	2614.597	2755.903	-1.19591	0.00659	0.83618	3030.641	2552.109
0.31145	1.06882	2280.385	2449.438	-1.00979	0.86744	0.99031	2283.674	2259.735
0.49097	1.06747	1127.089	1207.478	-1.08917	0.28831	0.91813	1223.988	1122.21
0.38168	1.05197	3467.067	3655.571	-1.18443	0.00279	0.84429	2921.199	2468.334
0.84904	0.96037	188.665	181.2224	-1.03384	0.87775	0.96727	158.0191	152.7121
0.53373	1.08244	952.0078	1037.66	-1.51274	1.13E-06	0.66105	716.9345	474.5718

0.51704	1.05015	527.4365	554.5507	-1.04361	0.50767	0.95821	1449.803	1390.53
0.00813	0.68228	488.4846	328.7253	1.10275	0.55565	1.10275	327.5502	357.4168
0.28681	1.09135	800.6926	876.3239	-1.47096	1.10E-06	0.67983	913.6272	619.5297
0.00014	1.22916	744.0323	914.2122	1.23826	0.00086	1.23826	841.996	1041.257
0.68493	1.03155	983.6636	1010.004	-1.11716	0.1419	0.89513	901.3661	808.1218
0.73057	0.81121	65.03534	52.90946	-1.06126	0.91969	0.94228	60.28574	56.35027
0.26504	0.77842	488.6657	366.6094	1.26552	0.21017	1.26552	351.9064	451.9625
0.95146	0.99329	299.5747	297.4319	-1.01131	0.94365	0.98882	264.536	261.8096
0.1555	0.91693	1928.998	1768.479	1.13153	0.00549	1.13153	1809.214	2046.921
0.33404	1.1474	469.9925	533.3358	1.04961	0.71778	1.04961	522.0648	552.3352
0.00055	1.22932	752.7143	925.7406	1.3478	0.00593	1.3478	750.628	1008.308
0.69893	0.93593	3240.635	3064.067	-1.67332	2.08E-16	0.59761	3271.736	1952.764
0.80343	1.03242	10649.2	10842.98	-2.41352	9.00E-13	0.41433	12004.93	4859.146
0.53055	1.02942	3674.505	3780.317	-1.10203	0.03275	0.90741	3990.686	3623.57
0.982	1.01369	60.13225	63.0545	1.25553	0.64468	1.25553	63.0529	78.53934
0.2207	1.07244	3342.003	3591.844	-1.13131	0.0216	0.88393	3412.603	3017.66
1.68E-13	0.69765	5561.939	3880.622	-1.00677	0.89761	0.99328	4346.481	4319.164
0.96214	1.00895	226.5284	230.3185	-1.00289	0.9755	0.99711	433.2573	431.8386
0.00962	0.76234	920.0617	697.1094	-1.21855	0.00224	0.82065	721.8705	592.5535
0.75505	0.80467	54.79706	44.04322	1.07398	0.9098	1.07398	58.83772	62.94791
0.39271	0.86884	411.9271	364.2941	-1.84677	0.00031	0.54149	399.5008	214.5022
0.95145	0.9896	252.7501	252.9518	-1.0376	0.88436	0.96376	206.8811	195.1175
0.74461	1.02554	1250.607	1282.931	1.48929	1.81E-08	1.48929	1013.889	1512.704
0.15889	1.10528	2390.769	2606.307	-1.29305	0.00011	0.77336	2905.574	2244.35
0.96599	1.0094	127.2052	128.3606	-1.23784	0.66246	0.80786	108.2769	91.2682
0.35602	1.06299	1225.798	1298.85	-1.15732	0.01034	0.86406	1257.802	1087.448
0.1213	0.88074	1346.81	1180.116	-1.04027	0.46236	0.96129	1288.301	1239.599
0.85992	0.98947	2004.474	1977.236	1.00917	0.85025	1.00917	2049.561	2065.977
0.96939	0.96918	40.48692	39.07285	-1.14629	0.91361	0.87238	36.01569	31.22929
0.94506	1.01128	586.9855	583.5272	2.1006	5.63E-30	2.1006	475.83	999.7547
0.75541	0.98427	2254.711	2216.367	-1.00456	0.92901	0.99547	2126.849	2120.271
0.35017	1.05978	7805.329	8245.527	1.02227	0.62603	1.02227	8897.585	9087.286
0.70344	1.02568	490.901	503.4979	-1.14801	0.27472	0.87107	407.515	353.3505
0.29208	1.07607	3541.544	3796.229	-1.02261	0.62557	0.97789	3969.545	3883.136
0.88239	1.00762	1404.039	1412.759	1.19843	0.00018	1.19843	1369.801	1640.915
0.02183	0.83556	750.0047	624.5048	1.19105	0.00781	1.19105	623.5704	743.0756
0.87829	1.00897	638.678	644.4902	-1.11192	0.12546	0.89934	662.9946	595.8832
0.26925	1.11022	520.2985	580.4544	1.49852	0.00069	1.49852	510.4652	760.9009
0.55485	1.03014	1050.94	1082.186	-1.00421	0.94013	0.99581	1120.994	1115.353
0.3054	0.9411	887.2676	835.5059	-1.19109	0.02257	0.83957	797.9934	668.7072
0.00562	1.1212	4296.194	4816.757	-1.35619	6.57E-09	0.73736	5494.495	4040.507
0.89831	0.97416	140.4067	136.8515	1.11222	0.68169	1.11222	141.8828	157.044
0.31398	1.07049	1591.51	1698.535	-1.02291	0.62665	0.9776	1743.245	1703.639
0.74605	1.03145	645.0194	668.0646	2.35548	8.67E-11	2.35548	697.5809	1653.502
0.14154	0.90119	7827.187	7069.537	1.01592	0.75452	1.01592	7341.878	7462.224
0.99018	1.00825	41.59576	41.77492	1.08311	0.92141	1.08311	39.3964	43.06651
0.2058	1.30107	137.114	178.8781	-1.34874	0.41647	0.74143	142.6548	103.4401
0.82372	0.78865	34.71279	28.52261	-1.10952	0.92911	0.90129	29.07349	32.74432
0.76536	1.07174	196.7291	207.8527	-1.05152	0.77492	0.95101	217.3807	207.0097
0.46268	1.04534	1847.654	1935.845	-1.12318	0.02289	0.89033	1974.765	1759.594
0.86017	1.03404	186.295	191.4932	1.11982	0.5838	1.11982	183.7028	206.0653
0.69476	0.90452	185.7436	165.9506	1.1932	0.57175	1.1932	154.8257	186.1157

0.25877	1.12535	598.9638	669.4989	1.25139	0.04353	1.25139	630.8473	793.4785
3.15E-10	0.69673	4797.384	3345.522	1.0473	0.26244	1.0473	3888.379	4072.229
0.12426	1.12641	8335.018	9220.354	-1.21715	0.00625	0.82159	13134.78	10765.62
0.5984	0.9643	898.5115	863.7219	-1.05894	0.35941	0.94434	833.0908	786.1956
0.47276	1.04893	1492.626	1569.237	-1.05322	0.41909	0.94947	1668.625	1581.016
1	1	18.65815	24.69197	1	1	1	21.70216	30.80692
0.46091	0.78783	165.1776	127.7356	1.26456	0.46893	1.26456	110.4508	139.3785
0.00006	0.8095	2816.129	2281.144	1.23061	1.24E-06	1.23061	2303.659	2834.927
0.83339	1.06891	105.3636	113.0465	1.61157	0.28887	1.61157	75.31082	118.8454
0.71736	0.98211	2443.161	2394.969	-1.0956	0.03688	0.91274	2358.884	2152.944
0.22088	0.92204	3908.343	3612.129	-1.02257	0.68438	0.97793	3309.674	3237.266
0.2111	1.14215	408.9647	469.6196	1.44961	5.30E-06	1.44961	532.0757	770.2406
8.30E-20	0.6454	1844.512	1190.483	-1.04492	0.38862	0.95701	1892.359	1811.135
0.81117	1.02807	603.2588	625.3187	-1.11349	0.07581	0.89808	1026.265	920.6306
0.86092	1.03166	224.5942	229.2535	-1.27916	0.44542	0.78176	167.7112	131.0273
0.07067	1.15172	24623.37	28328.32	-1.57296	0.00011	0.63575	30194.2	19106.05
0.45086	0.90545	519.9793	465.0326	1.23546	0.01213	1.23546	469.9849	581.5638
0.7826	0.97864	2187.365	2118.601	-1.01616	0.79431	0.9841	2089.271	2066.314
0.76629	1.03621	1505.659	1562.811	1.39333	2.91E-06	1.39333	1300.122	1812.565
0.00993	0.87825	7945.257	6980.015	1.40344	7.32E-16	1.40344	7486.687	10506.23
0.37844	0.86393	644.5164	567.8665	-1.45526	6.19E-06	0.68716	570.0356	391.9572
0.42122	1.0433	1306.339	1365.042	-1.02557	0.64036	0.97507	1413.209	1377.399
0.78684	0.95448	223.198	213.2787	1.01749	0.92472	1.01749	203.7242	207.3344
0.99164	1.00096	520.8333	519.2099	-1.21792	0.09437	0.82107	523.062	430.9947
0.77316	1.01216	2551.129	2581.884	-1.06973	0.1957	0.93481	2760.384	2577.577
0.65446	1.11215	133.7872	149.2383	9.52299	2.69E-42	9.52299	115.1706	1092.394
0.06586	0.77037	469.5997	355.8704	-1.11216	0.23974	0.89915	766.5669	686.9442
0.36662	0.85687	412.3057	345.5547	-1.62994	0.01206	0.61352	358.8054	224.0012
0.38928	1.17034	323.4297	386.9473	-2.39377	0.00001	0.41775	294.2622	123.5801
0.83914	1.04841	252.8759	256.5773	1.28524	0.07386	1.28524	234.5875	302.0091
0.84098	0.98085	325.5873	319.3406	-1.17725	0.30449	0.84944	277.7136	234.8518
0.11338	1.26905	10969.93	13676.42	-1.63477	0.00043	0.61171	17848.43	10671.22
0.91188	0.98697	1813.122	1808.441	-1.18267	0.00065	0.84555	1610.551	1362.275
0.07947	1.08512	2863.562	3111.507	1.01768	0.72172	1.01768	3134.077	3191.596
0.24723	1.07728	760.7728	819.7459	1.0072	0.91352	1.0072	1617.253	1634.106
0.07856	1.13438	618.5794	700.2879	1.08703	0.23809	1.08703	638.9862	694.1421
0.04077	1.10151	4683.107	5164.449	-1.05738	0.42627	0.94573	4530.497	4291.425
0.03214	1.13894	1342.943	1533.422	-1.02935	0.71919	0.97149	1638.293	1591.796
0.5822	1.04217	561.3284	586.0873	1.00888	0.88724	1.00888	895.3423	902.7612
0.90398	0.9924	5989.01	5949.341	1.0185	0.7446	1.0185	5624.812	5726.795
0.68809	1.01783	2333.983	2374.493	-1.09469	0.0821	0.9135	2315.014	2114.97
0.38837	1.10155	373.9038	412.7719	1.04261	0.67962	1.04261	695.2772	722.1027
0.03184	1.14309	1290.489	1482.039	-1.05526	0.24944	0.94763	1717.28	1627.251
0.295	0.88348	6895.686	6111.559	1.45061	0.00004	1.45061	6231.947	9016.069
0.35322	1.12505	1311.093	1475.04	1.00448	0.91896	1.00448	2374.777	2386.136
0.03005	1.24972	3402.158	4197.146	-1.66727	0.00002	0.59978	5306.66	3109.381
0.00026	0.60808	1809.683	1095.931	-1.14934	0.0473	0.87006	1368.692	1192.855
0.83996	0.94017	104.0456	98.3421	-1.22801	0.70258	0.81432	95.98257	81.66859
0.76421	0.90624	131.0248	122.167	1.31297	0.3461	1.31297	129.5707	169.0974
4.50E-06	0.56184	3403.897	1883.051	1.0274	0.77075	1.0274	2397.621	2466.231
0.18427	1.09386	5803.394	6340.374	1.2772	0.00243	1.2772	5833.728	7447.882
0.12001	1.1117	2775.207	3079.244	-1.2101	0.0009	0.82638	2951.772	2439.073

0.80023	0.97868	1156.578	1134.331	1.59619	3.31E-15	1.59619	1032.911	1650.211
0.00131	0.59825	3061.596	1785.402	-1.19495	0.14919	0.83685	2191.758	1844.601
0.61818	0.84346	102.0044	86.89896	-1.07999	0.86819	0.92594	122.8547	111.9318
1.55E-06	1.34423	831.2732	1117.956	-1.1133	0.07711	0.89823	960.1683	861.6879
0.80294	1.01758	2016.083	2044.188	-1.07773	0.11818	0.92787	2338.726	2172.242
0.93723	0.98677	290.0149	283.9948	1.06758	0.77568	1.06758	206.2459	217.0516
0.1389	1.10466	9918.981	10993.28	-1.29665	0.00287	0.77122	11549.62	8865.188
0.00182	0.52558	1089.226	551.5477	-1.04481	0.73509	0.95712	764.869	737.3383
0.00314	1.15017	1431.028	1647.068	1.3485	0.00175	1.3485	1483.41	1996.336
0.81195	1.01906	494.4818	504.6904	-1.0186	0.85789	0.98174	516.0172	505.1607
0.23734	1.1216	315.2964	353.7343	-1.28456	0.04813	0.77848	325.4766	252.9424
0.31183	0.94129	114627.3	107996	-1.04066	0.38682	0.96093	131023.2	125890.3
0.49105	1.09845	223.7337	245.4999	1.17	0.38153	1.17	224.3626	263.1302
0.67582	1.02937	692.6602	714.5199	-1.00548	0.95484	0.99455	599.1262	598.0305
0.83292	0.93626	105.2461	97.77325	1.45717	0.37153	1.45717	88.3089	125.3831
0.98746	0.99208	62.65904	62.67236	1.21808	0.75784	1.21808	49.47687	59.61661
0.28055	1.07086	908.6784	972.4712	-1.05647	0.40244	0.94654	982.4746	928.3904
0.08025	0.78032	4428.178	3394.503	-1.97226	5.99E-26	0.50703	2601.59	1317.287
0.32461	0.87445	798.3427	690.9823	1.2609	0.00251	1.2609	718.2923	907.6516
0.00076	0.74252	2596.648	1934.533	1.01737	0.84667	1.01737	2639.104	2673.678
0.71995	1.09941	140.3532	157.0998	1.12756	0.74293	1.12756	115.7105	130.9829
0.56392	1.14025	155.206	174.7913	1.34517	0.22725	1.34517	153.6057	209.3678
0.87998	0.98065	399.28	392.1813	-1.22721	0.16079	0.81486	384.6146	311.6744
0.77475	0.94868	8544.771	7926.741	-1.60649	1.95E-12	0.62248	8162.833	5077.906
0.34677	1.12422	6812.576	7534.703	-1.16316	0.14735	0.85973	9775.248	8408.148
0.04574	1.11698	949.107	1061.01	-1.09228	0.14953	0.91552	1029.244	941.4436
0.25384	1.07743	2474.51	2644.837	-1.05081	0.35926	0.95165	2983.011	2844.77
0.62058	1.05927	512.1965	547.0579	-1.24729	0.01811	0.80174	483.5139	387.0653
0.16922	1.10425	3410.816	3725.106	-1.18652	0.00004	0.8428	4375.781	3687.732
0.09216	1.07755	1535.592	1654.959	-1.09007	0.07542	0.91738	1497.406	1373.85
0.59627	1.03239	2169.751	2237.709	-1.09231	0.21633	0.91549	2404.3	2210.82
0.88056	1.03279	167.475	172.5548	-1.05807	0.84704	0.94512	177.5519	163.2953
0.17758	0.85629	684.9253	591.1614	-1.45115	0.02833	0.68911	345.9789	240.9952
0.40334	1.06448	611.2653	649.3005	-1.0716	0.4853	0.93319	619.8186	577.28
0.05264	0.81675	646.8644	524.8051	1.67703	8.86E-06	1.67703	446.6187	753.5065
0.07894	0.71276	1649.678	1152.834	1.45708	0.00009	1.45708	1037.476	1522.572
0.92546	1.01085	656.3987	657.92	1.01008	0.90829	1.01008	635.8734	644.0452
0.71641	1.05378	230.5211	243.9374	-1.09855	0.50939	0.91029	292.6701	266.4591
0.26764	1.15112	279.9735	321.0103	-1.03948	0.80266	0.96202	246.2867	237.329
0.55674	0.9682	2739.494	2646.706	-1.07177	0.2278	0.93304	2793.743	2607.939
0.01461	0.60406	462.2889	272.7882	-1.24913	0.19843	0.80056	343.6035	276.195
0.61176	1.02878	2782.519	2859.292	-1.29624	0.00003	0.77146	2986.16	2309.394
0.213	1.34408	48390.38	63614.23	-3.33054	3.03E-08	0.30025	92791.44	25758.68
0.79772	1.01504	1443.761	1462.86	4.25588	0	4.25588	1606.467	6889.485
0.00644	1.16621	1205.377	1402.739	1.16183	0.07609	1.16183	1232.975	1426.564
0.01797	0.74294	5504.986	4085.077	1.1094	0.38706	1.1094	4674.802	5207.166
0.283	1.11888	491.3744	546.3334	1.05553	0.47603	1.05553	479.4125	505.9749
0.61349	1.06519	524.7551	553.6818	1.19027	0.05546	1.19027	506.5883	604.008
0.54205	1.04342	1631.405	1713.516	-1.09018	0.23527	0.91728	1638.431	1503.367
0.70605	0.90887	191.7065	179.4589	-1.20984	0.52125	0.82655	161.0596	131.326
0.37813	1.06495	1274.522	1352.445	-1.14122	0.05615	0.87625	1531.328	1337.064
0.00038	1.23583	880.4786	1089.636	1.45078	0.0001	1.45078	940.1538	1361.539

0.66619	1.10055	205.2147	220.276	1.0987	0.52968	1.0987	261.9675	288.1444
0.33654	1.04302	2735.111	2850.986	1.08366	0.127	1.08366	2659.923	2883.632
0.09832	0.79476	732.6722	574.4749	-1.13572	0.19247	0.8805	700.9538	618.3323
0.13467	1.12813	668.5853	757.2572	-1.13596	0.1471	0.88031	642.9929	564.5262
0.00275	1.62133	240.2608	396.0857	3.95555	1.78E-16	3.95555	232.3202	912.7447
0.19343	1.07431	7084.826	7598.584	1.00567	0.91372	1.00567	7170.875	7219.075
0.00623	0.67992	7692.229	5178.239	1.27259	0.03761	1.27259	6124.349	7823.238
0.92554	1.00719	539.6318	544.3679	-1.25892	0.05269	0.79433	615.1268	486.4393
0.00133	0.81589	19134.89	15648.16	1.02572	0.58101	1.02572	16449.9	16878.05
0.00414	0.81793	2147.688	1756.679	2.44715	4.97E-22	2.44715	1939.303	4783.613
0.09697	1.08613	1507.191	1636.513	-1.00735	0.89107	0.9927	1516.942	1508.28
0.43158	0.84954	205.132	172.1059	-1.1081	0.65169	0.90244	160.6289	145.2115
0.00008	0.76437	2567.959	1959.418	1.05223	0.34364	1.05223	2128.074	2240.58
0.06079	0.77802	16406.91	12775.81	1.00868	0.9436	1.00868	14916.49	14928.06
0.25672	1.09027	894.5848	970.497	1.04015	0.49834	1.04015	976.9127	1016.946
0.00188	0.71508	57098.94	40910.76	-1.05401	0.60232	0.94876	55123.5	52385.3
0.72184	0.91422	167.3342	153.4473	1.07572	0.74151	1.07572	182.5355	198.2068
0.0106	1.13635	8122.251	9229.085	-1.21401	0.0064	0.82372	8662.262	7183.324
0.01256	0.83859	4304.806	3627.826	-1.07431	0.30844	0.93083	4842.063	4501.598
0.23664	1.0537	4185.936	4409.884	1.0227	0.6544	1.0227	4611.898	4710.346
0.46625	0.91474	604.3657	547.3948	-1.06779	0.52265	0.93652	529.4731	497.8578
0.86635	1.00932	2345.405	2369.141	-1.07646	0.21869	0.92897	2265.766	2104.503
0.02536	1.1665	2231.136	2603.104	-1.99859	9.59E-24	0.50035	2291.059	1143.951
0.89865	1.00974	673.652	678.832	-1.41334	0.00048	0.70754	644.0355	456.7664
0.73989	1.01526	2972.906	3017.475	1.02818	0.70537	1.02818	2521.46	2566.497
0.0657	0.76665	2794.618	2122.725	1.21631	0.04104	1.21631	2255.168	2756.728
0.83043	0.98734	697.384	689.0252	1.05184	0.4776	1.05184	756.478	794.4397
0.93985	0.98645	239.2906	235.5637	1.06533	0.67668	1.06533	252.5116	268.8743
1	1	17.65329	24.45312	1.4355	0.8397	1.4355	18.3118	32.62126
0.66645	0.84145	113.9297	92.63275	-1.18917	0.65018	0.84093	117.481	100.4729
0.5731	1.02607	1737.714	1782.091	1.03998	0.37371	1.03998	1993.451	2073.115
0.00349	1.32123	1737.184	2285.988	-1.01749	0.83338	0.98281	1948.156	1911.092
0.00292	1.19235	8150.341	9710.411	-1.72208	2.23E-08	0.58069	12642.22	7248.035
0.8418	1.32053	17.0581	25.46721	1.41266	0.8441	1.41266	21.1328	32.82581
0.75932	1.03771	410.2253	429.105	-1.04766	0.72622	0.95451	340.2717	323.3063
0.83477	1.01203	1235.821	1247.742	1.58361	3.51E-15	1.58361	1283.788	2037.226
0.72294	1.03315	2068.587	2116.63	1.13609	0.00576	1.13609	1953.379	2220.546
0.00002	0.7621	5113.185	3896.245	-1.09781	0.0967	0.9109	4443.721	4042.716
0.30618	0.90383	462.0519	419.4052	-1.1323	0.21479	0.88315	420.372	370.7905
0.46598	0.93992	504.0745	475.097	-1.69444	0.00161	0.59017	389.5804	231.2885
6.41E-06	0.69646	6599.975	4623.969	1.11286	0.01204	1.11286	4649.729	5175.121
0.96623	0.99549	518.3832	518.4016	1.01093	0.93355	1.01093	426.1068	427.6746
0.20481	1.1619	829.4298	980.1447	-1.11581	0.16021	0.89621	3453.63	3047.132
0.02984	1.09395	3143.698	3439.069	-1.0882	0.13716	0.91894	3142.378	2880.088
0.84801	0.97897	3048.512	2992.191	-1.02786	0.75931	0.9729	4071.047	3957.281
0.83345	0.95022	128.5805	122.2126	-1.17948	0.54583	0.84783	125.9633	106.9329
0.10675	0.91408	2117.232	1934.089	-1.07428	0.2058	0.93086	1813.732	1687.442
0.37119	1.07715	1726.587	1870.042	1.019	0.71208	1.019	1776.75	1810.779
0.02499	1.22331	3870.336	4714.966	-1.70725	0.00009	0.58574	5509.583	3142.378
0.47802	0.89131	696.7918	629.52	-1.39613	0.00002	0.71626	762.5019	545.7012
0.0086	0.74893	3508.606	2626.043	1.2041	0.00825	1.2041	3163.444	3807.275
0.41328	1.08928	653.3691	707.1291	1.06989	0.28746	1.06989	772.9959	826.427

0.11138	1.09639	1041.665	1142.892	-1.15189	0.09252	0.86814	981.4911	855.0722
0.0506	0.90481	2714.534	2459.572	-1.08487	0.16237	0.92177	2602.315	2388.864
0.02009	1.29026	853.4948	1100.664	2.55163	0	2.55163	725.1965	1849.109
0.94062	0.97422	106.8887	103.8469	1.32333	0.43759	1.32333	83.33208	109.7792
0.03926	0.86983	564.4382	490.8248	-1.0498	0.62898	0.95256	448.7773	426.452
1.21E-06	0.80677	6509.141	5249.635	-1.18033	0.06309	0.84722	5906.745	4987.166
0.85046	0.99182	2095.844	2078.47	-1.02586	0.57836	0.9748	1990.96	1940.314
0.54442	1.16032	16343.55	17716.29	-5.3663	4.86E-37	0.18635	24038.54	4405.231
0.19666	1.0898	3052.876	3349.323	1.20933	0.00012	1.20933	3469.921	4194.852
0.47003	1.05895	392.4634	415.648	1.01692	0.92578	1.01692	360.9547	361.4636
0.97532	1.00574	11205.62	11318.31	-2.50023	5.21E-20	0.39996	11051.41	4398.759
0.22585	0.88906	437.6443	389.4295	-1.00693	0.93638	0.99312	420.8232	418.0909
0.2006	0.80502	222.2026	179.826	-1.03951	0.84255	0.96199	189.1418	181.9
0.69379	0.78693	57.54914	45.47076	1.00916	0.99178	1.00916	38.30966	38.97647
0.49009	1.13078	473.5107	550.7028	-2.78231	8.31E-06	0.35941	684.0362	245.852
0.75987	0.96854	2249.879	2205.591	-1.24486	0.00633	0.8033	2093.034	1669.259
0.68881	1.12262	95.31203	106.8626	1.086	0.78777	1.086	154.2486	171.5337
0.92302	1.00755	1082.227	1094.994	1.63302	8.73E-10	1.63302	1768.612	2883.857
0.29543	1.09629	1211.401	1319.059	-1.27949	0.00306	0.78156	1916.838	1487.854
0.01296	1.13461	1167.51	1324.266	1.6104	1.83E-14	1.6104	1236.672	1993.083
0.01211	1.27809	1388.862	1783.437	1.9575	1.36E-30	1.9575	1227.96	2402.86
0.92895	1.0583	43.89326	46.47522	-1.07312	0.94222	0.93186	42.30482	40.80199
0.72222	0.96244	352.3131	340.0051	1.31592	0.01427	1.31592	336.4634	444.1144
0.5929	1.04906	677.8547	714.8369	-1.24467	0.00083	0.80342	715.555	575.0866
0.00247	1.13696	10810.88	12289.13	-1.06198	0.2513	0.94163	12223.28	11505.95
0.00546	0.81559	5756.949	4703.688	1.00875	0.88966	1.00875	4722.822	4749.707
0.29502	0.89785	1070.647	964.7307	1.21607	0.03358	1.21607	1048.201	1273.263
0.72056	1.01898	7287.447	7402.88	-1.06968	0.14734	0.93486	7342.03	6851.194
0.85391	1.0253	406.5502	416.2944	1.04738	0.65693	1.04738	435.3279	457.4359
0.19315	0.77988	2314.918	1820.44	-3.30183	1.34E-16	0.30286	1168.448	353.7181
0.14688	0.86083	447.9015	384.1619	-2.26505	3.41E-06	0.44149	520.5634	231.2833
0.01014	1.11885	6709.285	7507.37	-1.24637	0.00003	0.80233	8638.129	6921.042
0.00121	0.77235	919.3492	707.4258	1.00524	0.95295	1.00524	776.0987	782.2178
0.00538	0.72218	1213.26	872.1039	1.3194	0.14855	1.3194	958.7875	1268.228
0.29197	0.91932	1737.136	1607.505	-1.01767	0.80837	0.98264	1692.06	1660.492
0.20941	1.17176	331.8326	385.7925	1.6184	0.00002	1.6184	274.9143	445.9164
0.97816	0.99736	1854.151	1839.286	-1.12053	0.12841	0.89243	1814.387	1625.003
0.67875	1.04628	579.3385	610.4938	1.02443	0.71395	1.02443	994.6677	1017.015
0.55966	0.96075	1160.368	1119.913	-1.05661	0.36917	0.94642	1067.977	1009.292
0.18141	1.09987	754.6544	827.8088	-1.02924	0.6742	0.97159	847.8345	822.7529
0.44623	1.04655	1536.173	1607.101	1.00302	0.96891	1.00302	1635.202	1640.365
0.86454	0.97935	395.1432	389.6133	-1.03628	0.76869	0.96499	345.0004	333.915
0.58521	1.04764	810.0313	853.74	-1.12186	0.26448	0.89138	1485.239	1296.36
0.00082	1.16227	6599.327	7668.845	-1.25759	0.0004	0.79517	7789.388	6152.934
0.11196	0.77109	1053.611	800.1169	-1.10755	0.48082	0.90289	874.9429	796.4647
0.57125	0.93355	2094.207	1981.909	-1.09553	0.10208	0.9128	1813.479	1653.126
0.1397	1.13824	1038.429	1184.388	1.61777	3.11E-10	1.61777	887.4959	1434.632
0.25694	1.09525	726.3859	792.4072	1.35023	5.21E-07	1.35023	829.6537	1119.353
0.99446	1.00033	3491.62	3496.633	-1.26451	6.90E-08	0.79082	3761.425	2975.553
0.69345	0.95521	1138.537	1096.505	-1.43687	1.11E-07	0.69596	1419.318	984.506
0.26777	1.06932	3073.76	3271.237	-1.01475	0.73003	0.98547	3091.762	3046.816
0.90782	0.9731	186.8069	186.0385	-1.06234	0.77445	0.94132	239.3685	222.9097

0.80934	1.06029	129.5625	137.499	1.17306	0.69134	1.17306	113.7539	130.9485
0.66381	0.94837	295.8205	280.7139	-1.09954	0.4843	0.90947	271.6032	246.9782
0.95594	0.98205	107.3228	105.5111	-1.00779	0.98666	0.99227	91.70469	91.74178
0.85613	0.98593	2099.391	2067.995	-1.11639	0.08189	0.89574	1861.633	1670.43
0.49848	0.8012	118.7539	93.96184	1.37663	0.20553	1.37663	138.3693	190.0052
0.05194	1.09907	6628.367	7291.729	-1.13954	0.0178	0.87755	7122.3	6249.274
0.05296	1.16417	6924.794	8063.725	1.11447	0.05136	1.11447	7724.96	8584.411
0.86701	1.00799	1461.327	1472.698	-1.00352	0.96106	0.9965	1306.735	1297.646
0.94555	1.00545	745.4965	747.9653	-1.03962	0.58157	0.96189	586.7078	564.1968
0.03492	0.84085	822.397	688.5859	-1.07364	0.44661	0.93141	715.2531	668.5569
0.14921	1.10617	1906.322	2117.592	1.03608	0.59129	1.03608	2140.069	2217.693
0.82947	1.12051	65.93948	74.78703	-1.12437	0.62787	0.88938	160.8812	142.3725
0.00811	0.78571	859.4444	671.631	-1.12122	0.3621	0.89189	708.3077	634.5373
0.53339	0.95295	548.1198	523.0048	-1.05606	0.62283	0.94692	438.562	413.6968
0.04745	0.91045	4508.962	4108.639	1.16953	0.08432	1.16953	4421.292	5164.954
1.80E-06	0.36109	376.2906	132.9665	-2.16283	5.86E-07	0.46236	363.1027	168.4768
0.41274	1.03577	1852.881	1919.327	-1.17436	0.00325	0.85153	1814.633	1545.183
3.58E-06	0.69326	2878.877	1987.618	-1.33202	0.0004	0.75074	2370.232	1773.735
0.17242	1.0793	1668.985	1798.759	-1.06859	0.21007	0.93581	1980.959	1852.321
0.87179	0.91501	68.19214	62.47935	-1.06252	0.92399	0.94116	67.69665	65.85242
0.95238	1.01212	178.9945	182.8763	1.09614	0.70885	1.09614	173.8945	189.6374
0.11016	1.38812	251.0759	344.2275	2.15805	1.43E-09	2.15805	234.2259	507.3387
0.19827	1.08447	2137.354	2304.892	-1.02935	0.53479	0.97149	2969.361	2883.475
0.34413	0.94503	1580.471	1489.898	1.08285	0.13072	1.08285	1568.141	1698.248
0.98824	0.99884	1349.126	1356.211	1.01548	0.80988	1.01548	1294.308	1312.716
0.62771	1.02498	1577.744	1618.511	-1.06918	0.19696	0.93529	1282.046	1198.915
0.88325	1.24097	17.33809	25.04106	1	1	1	17.8542	32.25315
0.00405	0.80702	1540.326	1240.995	-1.83026	2.19E-18	0.54637	1280.958	700.8146
0.56695	1.02661	3243.294	3328.822	-1.04331	0.41864	0.95849	2774.059	2653.711
0.91567	1.0219	220.135	220.9939	1.25512	0.24995	1.25512	180.2509	227.5949
0.33159	0.87942	1022.246	891.6046	-1.23334	0.00589	0.8108	819.0737	665.2941
0.9437	0.99528	1162.942	1161.553	-1.02113	0.80776	0.97931	1094.492	1070.147
0.17368	1.11967	2133.481	2383.337	1.24532	0.00343	1.24532	2064.156	2570.798
0.79439	0.9773	1992.121	1964.488	-1.0725	0.39456	0.9324	2006.964	1874.167
0.15639	0.86967	3612.08	3135.246	1.17916	0.08924	1.17916	3243.81	3830.139
0.55252	0.881	208.6157	180.8498	1.70305	0.00804	1.70305	182.0879	313.969
0.33172	1.16127	220.3817	254.3536	1.19369	0.26887	1.19369	196.8214	234.7958
0.06208	0.91024	1517.161	1380.509	-1.16412	0.02175	0.85901	1730.671	1488.032
0.54758	0.95895	834.5366	801.9724	-1.29137	0.00007	0.77437	792.9469	614.3686
0.14767	1.15868	22532.64	25884.91	1.37617	0.0293	1.37617	26205.34	36296.07
0.86414	0.97919	908.6673	897.4458	-2.00026	7.10E-06	0.49994	1017.122	500.6025
0.30442	1.13962	432.1496	488.5613	1.04294	0.74624	1.04294	408.4359	425.9812
0.06634	1.20992	597.7802	718.6598	1.3655	7.79E-06	1.3655	670.8544	916.9749
0.83183	1.03041	975.9099	998.8134	1.55702	0.00014	1.55702	872.2634	1365.832
0.92208	1.14285	17.78115	23.57586	1	1	1	17.55444	30.84066
0.87725	0.87947	39.14091	34.28364	-1.25154	0.81653	0.79901	38.07124	32.60667
0.97341	1.0036	468.8362	473.6707	-1.05479	0.50275	0.94805	683.8992	647.6307
0.93033	1.0049	1853.649	1869.379	-1.10625	0.05252	0.90395	2403.716	2177.413
0.39992	1.0561	4643.421	4827.051	-1.06249	0.22403	0.94119	6621.922	6224.484
0.89892	1.00635	1500.658	1511.534	-1.08373	0.35098	0.92274	1563.303	1441.677
0.7087	0.94656	1123.491	1079.187	-1.30168	4.26E-06	0.76824	1015.91	780.1532
1	1	18.4793	23.17075	1	1	1	18.0025	30.00613

0.03513	0.76622	7912.215	6084.9	1.34547	0.01778	1.34547	6446.634	8811.86
0.87566	1.12827	41.41422	47.52036	-1.06375	0.96441	0.94007	28.51328	31.30831
0.07165	1.30755	18093.94	23458.16	-2.91573	6.66E-10	0.34297	29647.05	9818.947
0.02539	0.73598	8352.285	6135.405	3.44091	1.36E-30	3.44091	7242.953	25156.09
0.19386	0.87855	8604.539	7564.564	1.43936	4.94E-12	1.43936	6209.822	8950.316
0.94087	1.01204	240.2198	244.9979	-1.24616	0.16376	0.80246	246.2215	197.505
0.03925	0.87951	4858.536	4279.807	1.30342	0.00676	1.30342	4321.722	5620.019
0.05708	1.10549	1043.858	1153.239	1.07926	0.12075	1.07926	1200.957	1295.962
0.62329	1.03453	887.6666	920.6181	-1.1539	0.03448	0.86662	854.1226	739.2764
0.71566	0.88748	162.8397	137.0509	1.26523	0.34035	1.26523	180.3072	228.0613
0.98194	1.02542	34.41685	38.22572	1.15844	0.83311	1.15844	65.219	78.35277
0.04515	1.19399	1643.217	1952.74	1.16594	0.00847	1.16594	1959.488	2291.152
0.82348	1.04951	219.7963	224.4032	1.20758	0.19752	1.20758	282.798	339.8693
0.67829	1.08857	284.5402	312.619	1.09038	0.75405	1.09038	293.495	309.8317
0.57873	1.04301	821.1045	852.9684	-1.19139	0.00558	0.83936	821.7117	689.5387
0.06983	0.82524	3316.396	2742.079	1.01255	0.89329	1.01255	3103.025	3145.386
0.05487	1.17156	2391.95	2776.523	-1.95958	5.98E-11	0.51031	3387.025	1695.089
0.33294	0.62988	81.46165	51.24126	1.01629	0.97595	1.01629	59.81148	60.98177
0.95941	1.06991	20.92083	24.48459	1.22792	0.90307	1.22792	19.64888	37.47204
0.34126	1.12171	430.9356	478.8518	1.42689	0.00002	1.42689	370.274	528.5168
0.00004	0.76135	1539.961	1172.764	1.01224	0.81165	1.01224	1475.12	1493.182
0.00497	0.82242	1338.723	1099.195	1.38467	2.81E-07	1.38467	1109.214	1537.452
0.70261	0.96671	900.635	875.9794	-1.29419	0.00411	0.77269	765.816	593.4437
0.0304	1.18753	2315.74	2761.698	-1.21342	0.02224	0.82412	4611.032	3777.16
0.75805	0.98417	1853.833	1824.738	-1.10736	0.09651	0.90305	1345.275	1211.616
0.91213	1.01117	435.0465	441.9327	-1.04028	0.69009	0.96128	409.1904	393.1691
0.30711	1.04907	4610.66	4847.349	1.0026	0.96417	1.0026	4426.651	4435.663
0.49906	0.95162	1190.202	1137.834	-1.17516	0.06412	0.85095	1290.905	1091.093
0.006	1.1263	2698.232	3039.281	-1.03284	0.66396	0.96821	3116.014	3010.104
0.00296	1.16087	2699.498	3137.209	-1.68042	2.47E-16	0.59509	2611.904	1554.356
0.67875	0.91456	212.7492	198.6726	1.1868	0.16774	1.1868	285.066	337.533
0.6532	0.95756	605.5891	583.1019	1.13364	0.16685	1.13364	537.7483	607.9529
0.54513	1.05088	857.7408	901.7537	-1.08749	0.20471	0.91955	1038.117	953.0329
0.61375	0.75027	85.51121	68.61559	1.64838	0.38447	1.64838	55.41121	89.84093
0.85178	1.15908	34.72372	40.74778	1.05601	0.94456	1.05601	43.30309	45.62881
0.51384	1.05746	739.1593	777.8256	1.10185	0.244	1.10185	732.1201	804.6185
0.85332	0.97236	191.749	186.4695	-1.14481	0.56255	0.87351	218.5152	187.9378
0.68289	1.10161	164.7534	178.744	1.05451	0.81198	1.05451	169.585	179.1693
0.02607	0.83674	7124.102	5958.102	1.29096	0.00001	1.29096	6377.619	8227.488
0.74847	0.96298	852.7159	829.8264	-1.192	0.02281	0.83892	822.5303	688.4697
0.32623	1.04815	2238.125	2347.154	-1.03195	0.49178	0.96904	1947.162	1887.068
0.56148	1.06321	476.8372	504.3856	-1.00852	0.92798	0.99156	488.3882	484.3414
0.13178	1.08064	3058.87	3287.782	-1.14179	0.00354	0.87582	3880.268	3401.052
0.24472	1.10013	2403.454	2617.116	-1.38417	6.26E-09	0.72246	3924.869	2838.551
0.70905	0.98254	2697.362	2649.737	-1.14907	0.05017	0.87027	2942.981	2558.422
0.80266	0.97325	358.9948	350.4215	1.08039	0.53685	1.08039	361.7154	388.746
0.65349	1.04152	2227.478	2337.523	-1.04587	0.60973	0.95614	2426.505	2319.416
0.77597	1.26696	39.55595	49.60778	1.89467	0.47749	1.89467	35.05598	67.24432
0.00267	1.30524	7868.965	10294.35	-1.98631	1.13E-06	0.50345	12546.48	6170.193
0.05669	0.91234	10157.28	9273.365	1.00207	0.96909	1.00207	9987.537	10012.81
0.02117	1.10894	8961.652	9952.944	-1.20092	0.00119	0.8327	15180.02	12609.62
0.01841	1.14377	1238.375	1416.029	1.41094	1.43E-06	1.41094	896.6083	1264.552

0.24228	1.10252	473.7664	521.1682	1.04128	0.63807	1.04128	503.9811	523.9113
0.04824	1.15023	805.1229	923.0387	1.05252	0.45595	1.05252	914.4523	964.4102
0.65055	1.02563	752.0096	771.0974	1.01789	0.81906	1.01789	772.8283	788.424
0.32588	1.05213	8921.484	9389.531	-1.07009	0.22943	0.9345	8503.115	7944.293
0.01938	1.16751	7638.333	8919.268	-1.01735	0.81668	0.98295	9153.028	9032.905
0.97602	1.00217	529.0726	530.7077	-1.193	0.04768	0.83822	559.6039	468.1154
0.35376	0.95685	1189.99	1138.537	-1.02146	0.70902	0.97899	1088.234	1064.41
0.16371	0.84911	3153.088	2686.68	1.16014	0.0403	1.16014	2643.865	3074.309
0.85366	1.01493	4569.419	4663.459	-1.13507	0.05821	0.881	4631.079	4066.977
1	1	18.35416	23.04876	1	1	1	18.26167	33.22359
0.42301	1.03816	1465.564	1520.935	1.20795	0.00384	1.20795	1528.062	1846.563
0.38066	1.08553	1694.526	1823.521	-1.20962	0.00009	0.8267	2428.862	2010.558
0.38463	0.81987	1346.979	1083.971	-5.25761	4.25E-12	0.1902	945.5121	179.8369
0.96248	0.99332	199.6563	198.1974	1.06353	0.74421	1.06353	182.337	193.9785
0.58968	1.0931	294.1265	326.4598	-1.21683	0.09413	0.82181	374.4044	307.019
0.52116	0.83082	128.0027	106.724	1.50697	0.19421	1.50697	101.3095	151.9157
0.75294	0.96364	1519.978	1464.989	1.01675	0.86492	1.01675	1347.683	1374.515
1	1	18.09805	24.43912	1	1	1	17.17402	33.005
0.03635	1.16363	8978.748	10420.78	-1.3714	0.0014	0.72918	9030.918	6528.037
0.31822	1.06552	1450.938	1551.094	-1.03835	0.57147	0.96307	1488.137	1432.618
0.05777	0.87075	3119.392	2712.406	1.23524	0.00614	1.23524	2622.963	3243.837
0.04013	0.78287	692.4386	536.6614	-1.04705	0.53093	0.95506	599.1376	571.8948
0.19389	1.1461	957.5971	1098.737	-1.84993	1.15E-09	0.54056	1132.195	614.9257
0.21337	1.06899	1338.617	1429.762	1.03202	0.58037	1.03202	1273.785	1312.961
0.81094	0.97294	1489.408	1467.406	-1.17179	0.17473	0.8534	1574.669	1334.066
0.59418	1.22965	69.21855	84.69328	1.05801	0.92376	1.05801	66.67971	70.92369
0.7778	0.98578	880.3078	867.8388	-1.04533	0.57708	0.95664	881.2986	840.6591
0.18792	1.09014	1683.768	1832.419	1.14293	0.01269	1.14293	1854.511	2119.684
0.95914	0.95349	47.666	47.09221	2.69711	0.41885	2.69711	17.76806	49.22814
0.44648	0.91909	2569.344	2363.173	-1.06673	0.19489	0.93744	2576.29	2415.368
0.12172	0.85167	655.7924	554.9597	-1.00122	0.98727	0.99878	587.4091	587.3391
0.78603	0.97064	604.2797	590.9802	-1.36561	0.00709	0.73227	524.8588	382.3915
0.89155	1.01545	563.0049	576.3176	-1.17571	0.00216	0.85055	1084.112	922.3484
0.54901	0.93165	1330.601	1253.889	-1.48522	0.00002	0.6733	1366.299	921.8552
0.41116	0.92117	333.5173	307.6564	-1.02846	0.84078	0.97233	324.7322	314.3715
0.01033	1.1943	660.2863	787.8805	-1.29692	0.03316	0.77106	710.7261	548.2104
0.55857	0.96363	2086.799	2014.61	-1.13169	0.05335	0.88363	1945.479	1719.432
0.35761	0.92317	460.2779	424.183	-1.13716	0.40244	0.87938	351.1258	306.608
0.64685	0.95987	2094.612	2014.351	1.10834	0.19074	1.10834	2086.854	2309.87
0.57415	1.02629	2414.487	2475.056	-1.0247	0.60582	0.9759	2367.886	2308.604
0.1993	1.12301	512.5289	573.5639	1.17761	0.03389	1.17761	569.1195	669.4454
0.68616	1.03455	1945.635	2022.982	-1.44621	1.71E-11	0.69146	2164.912	1494.878
0.63621	1.03907	2079.019	2142.235	1.04363	0.43262	1.04363	2432.139	2538.669
0.2565	1.11042	949.7651	1056.637	1.52077	0.0004	1.52077	908.7124	1383.212
0.91639	1.02432	140.6068	144.4185	1.51846	0.05684	1.51846	114.9756	174.6809
0.75412	1.01719	2392.037	2427.2	-1.05622	0.28034	0.94678	2672.708	2531.359
0.0002	0.80218	2480.521	1988.329	-1.49802	4.38E-13	0.66755	2339.452	1561.446
0.02556	0.7221	2641.745	1895.313	1.40011	0.00043	1.40011	2070.297	2923.928
0.97236	0.99611	395.1251	392.0164	1.30675	0.00702	1.30675	406.3722	532.4903
9.81E-09	1.29901	3838.717	4991.129	-1.75745	4.09E-14	0.56901	4180.956	2366.311
0.01416	1.10406	13979.69	15434.61	-1.1714	0.00353	0.85368	15782.1	13463.76
0.11834	0.86422	814.73	707.4634	-1.03942	0.575	0.96207	1053.44	1012.402

0.05034	0.78035	3562.196	2776.256	1.20717	0.14196	1.20717	3189.99	3876.166
0.17253	0.86121	623.5368	532.9139	1.11847	0.18048	1.11847	609.8942	680.9854
0.5949	1.11528	258.4873	277.6192	-1.05065	0.58793	0.95179	506.6326	483.1368
0.51267	1.0286	3282.023	3376.96	-1.09346	0.12038	0.91453	2744.56	2508.038
0.00138	1.18209	12777.17	15122.58	-1.31253	0.00011	0.76189	14434.58	11006.21
0.02766	1.12194	1168.114	1309.979	1.14	0.06285	1.14	1199.767	1366.328
0.0063	1.14151	4926.041	5633.073	1.08978	0.05947	1.08978	5334.953	5812.434
0.98463	0.99917	4666.448	4666.145	-1.05685	0.31621	0.94621	4492.558	4247.976
0.38193	0.9508	1289.586	1223.484	-1.16343	0.00171	0.85952	1368.804	1176.366
0.65182	1.08442	995.3618	1088.146	-4.64896	8.75E-10	0.2151	805.0621	173.1705
0.29271	0.81523	394.9411	314.9927	1.32277	0.10369	1.32277	344.8276	458.8811
0.03041	1.09384	3748.104	4099.707	1.23389	1.24E-06	1.23389	4175.117	5153.158
0.79718	1.02374	1418.259	1458.819	-1.08188	0.28963	0.92432	1426.996	1312.821
0.58978	0.82652	132.1883	106.6194	-1.30475	0.5093	0.76643	108.8985	83.63646
0.56995	1.05377	2884.295	3042.926	1.02262	0.78682	1.02262	2668.424	2713.146
0.00428	0.84204	1587.759	1334.701	2.01208	7.81E-07	2.01208	1376.591	2788.098
0.84618	1.05737	111.2224	117.5252	-1.09798	0.75635	0.91076	135.5782	123.8975
0.33444	0.8381	536.0841	457.31	-1.64526	0.00032	0.60781	367.627	224.0255
0.22107	1.12267	1139.967	1273.439	1.23462	0.00915	1.23462	1355.878	1682.46
0.54837	1.21936	93.82944	115.3867	-1.24575	0.52691	0.80273	119.5421	95.92638
0.93389	0.99555	1361.612	1353.219	1.0617	0.19255	1.0617	1429.188	1517.335
0.43505	1.10007	933.9852	1033.678	-1.52807	3.76E-10	0.65442	1031.355	675.3121
0.8794	0.9724	183.7155	178.7991	-1.02975	0.8954	0.97111	187.6638	183.1252
0.73372	0.97242	1225.124	1195.21	-1.14953	0.05597	0.86992	1243.229	1080.893
0.05865	1.09435	3487.349	3817.719	-1.04819	0.25449	0.95402	4345.338	4145.289
0.83017	1.02034	1078.351	1098.721	1.17694	0.00395	1.17694	986.0488	1161.076
0.00501	0.66798	19028.85	12476.35	1.11219	0.38203	1.11219	14869.34	16373.42
0.93588	0.95521	52.27148	49.69316	1.21976	0.83375	1.21976	40.03865	49.21095
0.82317	1.09574	77.05382	83.46225	1.01257	0.97658	1.01257	78.27866	78.8851
0.40049	1.05244	1167.095	1227.347	-1.14233	0.00998	0.8754	1194.696	1045.84
0.28915	1.06071	2391.261	2542.499	-1.05218	0.50401	0.95041	2618.403	2486.698
0.72946	0.97664	5039.341	4932.252	1.49895	2.06E-17	1.49895	4492.668	6733.519
0.51382	0.85716	153.9721	132.1957	-1.02925	0.9254	0.97158	119.8434	115.7641
0.54967	1.26646	67.13859	84.56601	1.13206	0.80866	1.13206	70.85146	79.91553
0.72059	1.02344	724.1572	740.4526	-1.02321	0.72831	0.97731	717.6753	701.0331
0.34398	1.05166	1700.04	1786.035	-1.09449	0.07665	0.91366	1914.422	1751.352
0.14273	0.81539	370.3998	305.2222	-1.00931	0.94848	0.99078	281.8155	278.2087
0.25358	0.95377	2773.825	2645.474	-1.03481	0.65468	0.96636	3278.325	3173.762
0.41712	1.06196	5661.572	6017.411	-1.41979	1.32E-10	0.70433	5955.782	4187.314
0.00825	0.81351	3425.966	2790.952	1.43361	2.21E-10	1.43361	2791.526	4000.229
0.34752	0.94763	897.3779	849.966	-1.03643	0.7118	0.96485	836.2241	810.1959
0.70348	0.89281	184.0613	156.2641	1.33964	0.23176	1.33964	134.0508	179.5
0.74605	0.98414	8977.772	8840.396	1.20589	0.00002	1.20589	9214.914	11111.46
0.63643	1.0453	903.924	954.3691	-1.12777	0.06285	0.88671	1255.362	1110.759
0.93328	1.02664	128.6538	129.166	-1.00291	0.98627	0.9971	214.9355	214.582
0.81036	1.02135	998.7289	1013.464	-1.02665	0.68888	0.97404	984.1137	956.8876
0.57007	0.96204	709.4904	683.6798	-1.06185	0.54262	0.94175	604.3405	566.9545
0.88751	1.00726	1032.518	1040.578	-1.2168	0.01203	0.82182	1057.678	866.6835
0.92025	0.93178	53.25462	51.72321	-1.40227	0.57556	0.71313	75.97734	53.21674
0.7291	0.98233	3402.637	3341.624	-1.29531	0.00771	0.77202	3212.111	2461.138
0.5352	1.04119	1713.956	1783.195	-1.65141	1.94E-13	0.60554	1436.487	870.7717
8.65E-07	1.28954	9144.658	11796.04	1.35847	0.0017	1.35847	11533.91	15738.77

0.64869	1.10426	193.5507	210.2723	1.38199	0.03658	1.38199	178.6803	246.9031
0.26382	0.87414	1115.663	970.5002	-1.95508	4.87E-14	0.51149	1015.817	520.6571
0.60518	1.04166	2484.446	2566.618	1.08254	0.16285	1.08254	2775.597	3004.066
0.95082	0.98522	131.4409	129.4614	1.30906	0.40083	1.30906	94.36469	122.9442
1	1	18.6849	23.22499	1	1	1	19.16806	29.4025
0.00925	0.87734	1431.745	1255.859	-1.17479	0.27832	0.85121	1298.093	1096.972
0.02255	1.11546	2343.218	2615.569	1.37635	0.0022	1.37635	2084.228	2871.32
0.42594	0.92104	442.7933	409.7734	-1.01252	0.92373	0.98763	396.8685	389.9595
1	1	18.64706	23.23492	1	1	1	18.21039	30.86966
0.61813	1.03461	690.4758	713.0261	1.19083	0.00742	1.19083	800.4346	952.5141
0.89689	0.96121	115.0599	110.5522	-1.06017	0.80378	0.94325	173.6916	164.5249
0.40575	0.903	295.7578	266.45	-1.3293	0.07157	0.75228	295.7706	221.4752
6.11E-14	0.64479	1984.914	1281.224	-1.42101	4.84E-10	0.70372	1615.036	1134.74
0.05484	1.15455	602.7231	694.1638	1.14845	0.04714	1.14845	641.7219	736.4207
0.5912	1.03602	1093.099	1129.133	1.05371	0.62665	1.05371	1042.734	1091.183
0.50086	1.05595	751.6458	790.7016	1.03312	0.55126	1.03312	852.8331	880.9423
0.70253	0.9243	797.0512	749.3463	-1.97662	2.39E-09	0.50591	582.5624	295.8108
0.71567	1.0225	3633.034	3716.478	-1.0501	0.29318	0.95229	3263.825	3111.178
0.52505	0.82555	241.2286	210.0696	-2.29118	0.02176	0.43646	144.5814	63.0783
0.7265	0.87041	144.5233	138.934	-1.32746	0.43264	0.75332	128.6243	96.5984
0.00319	0.85028	2243.281	1908.269	-1.54891	4.85E-16	0.64562	1985.105	1282.313
0.65029	1.0206	15402.8	15729.92	1.23815	0.01631	1.23815	15985.28	19806.21
0.70321	1.11013	154.6121	166.7422	1.53555	0.07831	1.53555	150.2222	227.6902
0.07521	0.88495	3718.4	3287.773	-1.11774	0.03717	0.89466	3446.556	3085.464
0.08499	0.72564	3633.198	2558.705	-1.65686	3.81E-10	0.60355	2580.503	1544.693
0.86745	0.96492	207.8033	200.9293	-1.15389	0.22335	0.86663	433.5273	375.2006
0.22353	1.07674	1077.799	1159.603	-1.01411	0.83279	0.98609	1513.019	1495.092
0.6857	1.04641	364.079	379.78	1.15097	0.10165	1.15097	403.4246	464.2123
0.13797	1.08651	5509.843	6015.842	-1.05457	0.40134	0.94825	5501.853	5203.269
0.90812	1.0539	76.6185	82.65361	-1.2297	0.62441	0.81321	104.4182	84.67023
0.6021	1.04315	825.7059	865.558	-1.06484	0.5652	0.93911	867.2169	811.0779
0.75347	1.01964	3306.183	3361.391	-1.01667	0.77788	0.9836	3293.179	3253.864
0.05267	1.09735	5328.266	5854.049	-1.06036	0.42021	0.94308	6180.389	5842.084
0.97952	0.99413	157.5268	155.1942	1.11764	0.73749	1.11764	130.8448	143.0578
0.80046	0.96604	1343.671	1290.227	1.12848	0.14634	1.12848	1139.729	1293.028
2.14E-07	0.62021	5981.867	3688.334	-1.21542	0.02716	0.82276	4432.885	3649.057
0.97536	0.97889	48.86779	47.89742	1.03747	0.97377	1.03747	38.09737	40.06783
0.97921	0.99816	3587.915	3560.651	-1.10828	0.10367	0.9023	5484.845	4928.818
0.0129	0.84057	3050.476	2565.297	1.08129	0.38353	1.08129	2881.632	3113.466
0.85055	0.95402	297.5873	286.695	-1.93685	0.06704	0.5163	143.5109	73.76569
0.00001	0.62708	13902.62	8681.309	1.05473	0.38655	1.05473	10292.49	10874.58
0.01637	0.87056	3896.023	3388.902	-1.00574	0.92071	0.9943	3644.091	3621.338
0.1803	1.07987	2455.623	2650.924	-1.35686	3.14E-07	0.73699	3278.851	2424.471
0.75373	1.0216	764.8205	782.6162	-1.16638	0.00855	0.85736	839.0978	719.214
0.40774	1.0387	1264.049	1312.914	-1.16337	0.02044	0.85957	1205.003	1034.683
0.38319	1.05069	2016.039	2113.94	-1.06476	0.27373	0.93918	2169.883	2038.189
0.77567	1.05107	226.9576	235.963	-1.3563	0.13178	0.7373	198.7103	146.7302
0.31881	1.11044	540.7237	596.5839	1.05806	0.56128	1.05806	513.7461	541.9036
0.1314	0.78136	228.9546	179.0048	-1.84115	0.02122	0.54314	176.7422	95.7785
0.64717	1.02536	1492.591	1528.22	1.31846	1.28E-09	1.31846	1853.19	2443.396
0.23803	1.05797	1260.948	1334.582	-1.07491	0.19746	0.93031	1234.165	1146.888
0.49552	1.05429	2043.326	2144.946	1.18989	0.00566	1.18989	2071.288	2475.308

0.59394	0.97481	1124.872	1096.702	-1.09236	0.1753	0.91545	1185.734	1082.664
0.00939	0.76907	2192.218	1675.907	-1.17327	0.04602	0.85232	1969.211	1680.15
0.95789	0.99139	231.43	229.9912	1.01499	0.94402	1.01499	207.8162	212.4668
0.68674	0.94179	404.0909	374.7754	1.34039	0.03878	1.34039	289.8801	390.6567
0.00005	0.81446	2085.482	1698.44	1.28075	1.13E-06	1.28075	1902.613	2437.678
6.17E-08	0.7021	6085.204	4269.5	1.0088	0.84618	1.0088	4601.11	4643.921
0.79103	1.04136	198.2325	206.4113	1.01546	0.9452	1.01546	157.1671	159.0376
0.71056	1.04111	12331.97	12836.51	-1.21169	0.01988	0.82529	12784.86	10517.97
0.35622	1.10385	625.9653	686.2806	1.23133	0.00652	1.23133	625.2312	768.5037
1.16E-09	0.74276	1331.327	988.9623	-1.13658	0.30282	0.87984	1192.167	1039.435
0.21774	0.91094	1003.787	917.0403	-1.10962	0.08177	0.90121	959.7334	864.1888
0.26951	1.07604	2079.788	2243.854	-1.16856	0.01229	0.85575	2547.154	2178.896
0.31573	0.9155	6882.788	6289.687	1.53503	4.44E-11	1.53503	5958.523	9171.249
0.92354	1.0136	350.6061	353.3019	-1.05205	0.72409	0.95052	350.3229	335.743
0.72648	0.95387	1611.693	1544.989	-1.468	8.55E-12	0.6812	1354.863	922.859
0.49051	1.04003	3923.755	4094.87	-1.06968	0.29271	0.93486	4090.109	3822.644
0.93547	1.00486	3141.704	3165.982	1.12681	0.04712	1.12681	3413.974	3834.154
0.69323	1.01968	9686.594	9888.387	-1.04137	0.5864	0.96027	10024.13	9602.648
0.41456	0.96499	1743.621	1682.396	-1.06366	0.2146	0.94015	1816.237	1706.682
0.50335	1.03985	1232.997	1284.265	-1.02266	0.79676	0.97784	1342.043	1304.686
0.18396	1.14544	1286.05	1470.677	-1.10995	0.31222	0.90094	1969.845	1774.279
0.03259	0.7932	11426.37	9098.557	-1.14123	0.02117	0.87625	10623.2	9292.096
0.42698	0.91512	1377.682	1260.255	1.21273	0.00055	1.21273	1545.646	1875.367
0.74825	0.80603	78.48508	58.1339	-1.05033	0.94861	0.95208	54.11566	51.1358
0.03793	1.21955	446.3388	541.9572	1.31487	0.00688	1.31487	435.088	574.1786
0.1432	0.73983	575.358	410.6268	1.21356	0.06293	1.21356	413.5015	502.2165
0.67828	1.02085	3307.246	3382.232	-1.03873	0.59817	0.96271	3353.622	3233.3
0.33401	1.10897	642.8166	708.7026	1.25844	0.01164	1.25844	636.079	798.0087
0.9903	1.00082	1417.984	1424.546	-1.12735	0.04263	0.88703	1441.672	1276.419
0.20519	0.81579	404.0567	323.0712	-1.00605	0.96523	0.99399	399.3828	400.4569
0.30112	0.85605	1042.578	887.2683	-1.36174	0.00532	0.73436	1084.905	798.0801
0.39267	1.12271	237.7809	267.2993	1.93186	0.00691	1.93186	195.8255	371.5978
0.98157	0.99677	230.9047	229.4554	-1.01272	0.93216	0.98744	226.6884	224.0203
0.0058	1.24093	4755.595	5760.224	-1.60389	2.16E-13	0.62349	5851.832	3642.863
0.00001	0.79662	2447.665	1952.224	-1.0014	0.97858	0.9986	2202.658	2199.671
0.33441	0.83514	271.415	223.7891	1.12984	0.50273	1.12984	222.3113	252.7864
0.49985	1.03134	6083.851	6270.778	-1.26534	0.00002	0.7903	5911.435	4670.992
0.11861	1.10103	3004.078	3318.023	-1.03731	0.55756	0.96403	3108.185	3004.427
0.02542	1.12426	1768.15	1986.055	-1.47092	1.38E-12	0.67985	1800.556	1224.712
0.21677	1.07401	11938.71	12833.91	-1.02183	0.67254	0.97864	12268.5	12001.9
0.01239	1.22118	709.5635	869.0117	-1.16825	0.02277	0.85598	743.3827	636.1322
0.05451	1.14167	13031.65	14932.51	-1.13633	0.04569	0.88003	13818.75	12146.69
1	1	20.7446	23.8484	1	1	1	18.24891	31.73756
0.10413	0.79936	4002.057	3207.392	1.23581	0.14794	1.23581	3831.137	4744.928
0.82999	1.28523	29.4739	35.43903	1.81364	0.65799	1.81364	22.20755	39.10204
0.30714	0.91242	58517.15	53247.54	1.11357	0.26558	1.11357	58859.57	65738.93
0.53647	0.83932	160.1528	137.7192	-1.214	0.36178	0.82373	164.8748	135.9671
0.93858	1.08459	40.63408	39.75916	1.16177	0.70476	1.16177	103.6461	120.0427
0.88162	0.94822	91.98097	87.20638	-1.08039	0.90585	0.9256	74.09421	67.22999
0.42248	1.04714	1126.82	1179.658	1.13478	0.01424	1.13478	1068.705	1212.761
0.11702	0.75636	9389.854	6881.523	-1.08746	0.27639	0.91957	5050.446	4623.833
0.81002	0.76902	37.65078	29.17027	-1.16076	0.89661	0.86151	33.13066	33.67031

0.26157	0.88704	3700.731	3264.194	1.21208	0.10004	1.21208	3453.228	4187.708
2.39E-10	0.73824	6611.017	4883.761	-1.04854	0.48128	0.95371	5582.427	5319.701
0.53845	0.95934	4754.69	4569.605	1.00756	0.91783	1.00756	4625.315	4646.696
0.96556	1.00816	929.8355	943.8027	-3.36077	9.45E-26	0.29755	874.5592	259.0985
0.87652	0.9453	96.63864	92.32479	-1.28322	0.62844	0.77929	91.69745	72.75734
0.77476	0.95331	247.3402	235.3244	-1.14896	0.31921	0.87035	248.9038	216.6449
4.46E-12	0.54441	990.0701	537.2861	-1.19111	0.05309	0.83955	806.0479	678.8986
0.30701	0.79345	2249.976	1774.621	-1.86564	7.61E-14	0.53601	1231.576	660.4008
0.5415	0.88112	9116.947	8051.466	-2.00186	3.69E-41	0.49954	6822.225	3413.236
0.90487	1.01139	1196.865	1223.867	-1.0358	0.67402	0.96544	1143.555	1097.989
0.02057	1.12137	1132.564	1270.478	1.26298	3.73E-06	1.26298	1387.146	1751.516
0.03423	0.68822	2993.251	2025.014	1.00726	0.96096	1.00726	2473.259	2511.604
0.00029	1.18644	3095.992	3673.646	1.54911	1.49E-12	1.54911	2812.99	4363.187
0.73833	1.01582	1168.835	1187.256	-1.04542	0.4617	0.95656	1093.835	1045.178
1	1	18.56786	23.6565	1	1	1	17.99414	30.74562
1	1	18.02643	23.0761	1	1	1	18.96408	30.83941
0.90105	1.00878	2759.071	2771.914	1.07687	0.25948	1.07687	2951.693	3184.963
0.52778	0.97249	5945.983	5782.999	-1.19159	0.00004	0.83921	5887.591	4941.359
0.31434	1.08809	2950.785	3225.879	1.10105	0.08421	1.10105	4202.186	4635.477
0.04562	1.09019	4686.37	5111.814	-1.14204	0.0016	0.87563	4043.206	3540.993
0.04839	0.86376	2682.308	2317.742	-1.06161	0.18038	0.94197	2408.587	2268.821
0.38749	1.05586	1290.143	1355.496	-1.07127	0.21836	0.93347	1677.138	1566.905
0.59725	1.04317	875.5808	909.0169	-1.13575	0.02774	0.88048	944.6469	832.0322
0.49938	0.9563	1926.8	1850.635	-1.03155	0.70208	0.96941	1918.202	1859.531
0.30315	1.07744	1220.145	1313.376	-2.3635	3.41E-29	0.4231	1341.539	568.3103
0.69211	0.95916	576.9832	549.7173	1.40522	0.00066	1.40522	514.6725	721.1063
0.43575	1.21725	103.5133	125.7015	2.05445	0.00264	2.05445	96.09076	197.4522
0.00704	1.40009	1422.074	1991.029	-1.09378	0.0725	0.91426	4536.175	4130.81
0.83315	1.01811	1227.096	1240.922	1.03478	0.53964	1.03478	1302.123	1348.826
0.73707	1.04218	493.7413	519.8904	1.0141	0.91421	1.0141	374.8799	382.6003
0.5311	1.03765	3034.338	3140.299	1.03285	0.56664	1.03285	3246.779	3359.521
0.6353	1.56279	29.13882	45.63007	1.03086	0.97691	1.03086	29.63176	37.32857
0.35247	1.05691	1297.596	1372.325	-1.0081	0.85487	0.99196	1799.627	1785.292
0.89031	1.01286	464.8816	469.1357	-1.09634	0.36723	0.91213	383.924	350.1409
0.00895	1.18878	1112.899	1322.151	-1.05329	0.56415	0.9494	1268.095	1199.589
0.82668	0.95957	4817.613	4502.626	-2.47891	1.08E-34	0.4034	3812.92	1537.698
0.54768	1.35823	49.80076	68.12884	-1.0224	0.97708	0.97809	57.0427	56.3513
0.89054	1.00746	3364.188	3394.034	-1.04824	0.31283	0.95398	2884.49	2752.337
0.88452	1.00631	2781.039	2797	1.00032	0.99498	1.00032	2678.627	2678.443
0.77741	1.02115	2160.942	2209.207	-1.26772	1.43E-06	0.78882	2694.014	2123.733
0.63458	0.94363	2118.984	2007.525	-1.4058	0.00087	0.71134	2088.837	1482.095
0.91057	0.97836	224.8101	222.5139	-1.14239	0.67663	0.87535	151.9886	135.963
0.46155	1.07735	3081.571	3313.333	-1.53909	3.13E-06	0.64974	3977.864	2570.201
0.87028	1.01337	2242.106	2279.615	-1.1484	0.05939	0.87078	2345.166	2040.308
0.97507	0.99279	153.1214	153.5541	-1.08708	0.74003	0.91989	160.6463	146.9464
2.27E-16	1.61521	3513.058	5654.137	2.49683	1.03E-08	2.49683	3233.839	8373.043
0.00033	0.82835	3515.373	2910.3	-2.50065	9.43E-26	0.3999	3106.899	1241.767
0.71594	1.05704	228.1536	239.8138	-1.0341	0.81574	0.96703	229.4301	221.9988
0.03796	0.88886	2316.214	2060.605	-1.02977	0.73773	0.97109	2031.475	1974.543
0.12578	1.07112	2853.73	3058.921	-1.12111	0.05612	0.89197	2861.656	2543.952
0.87199	1.01392	1029.994	1051.951	-1.10886	0.23779	0.90183	1144.334	1029.168
0.5872	1.11407	2387.822	2690.763	3.27127	1.60E-13	3.27127	1939.746	6480.249

0.15681	1.14076	390.6368	444.3707	1.2988	0.01467	1.2988	451.4339	583.5842
0.43689	0.89701	394.5924	357.9706	-1.3003	0.03884	0.76905	367.7095	281.8688
0.84841	1.02363	337.2479	345.7	1.14167	0.16234	1.14167	347.9085	397.3339
0.50115	0.89338	546.6997	495.2999	-1.41478	0.02961	0.70682	363.9075	259.7846
0.38017	0.88249	7395.358	6534.071	-1.00348	0.97769	0.99653	5888.21	5829.863
0.01022	1.19861	4699.327	5634.625	-1.20574	0.04267	0.82937	5759.057	4761.501
0.73483	1.05077	205.2183	215.2541	1.02249	0.93467	1.02249	193.2692	193.269
0.70005	0.9421	273.841	257.1885	1.11053	0.5261	1.11053	220.5854	244.873
0.87006	1.04514	165.8839	176.9504	-1.43197	0.48607	0.69834	135.351	88.62529
0.77164	1.14593	81.42108	89.98167	1.26994	0.16929	1.26994	195.0385	247.8039
0.11638	1.1457	14424.77	16644.2	2.92165	5.17E-42	2.92165	14294.95	41926.93
0.76591	1.02294	959.7402	979.7893	1.0785	0.19782	1.0785	796.1597	858.7622
0.35732	1.05545	3734.127	3916.612	1.02995	0.52412	1.02995	4074.342	4203.122
0.13828	0.84705	2990.663	2549.971	1.34482	0.00076	1.34482	2734.282	3677.846
0.03085	1.15383	1699.64	1946.468	1.21576	0.00005	1.21576	1952.808	2381.181
0.79179	1.02037	4018.711	4105.621	-1.0741	0.20744	0.93101	3274.635	3055.185
0.27388	1.06994	1231.49	1321.031	-1.00375	0.95635	0.99626	1180.533	1175.403
0.82719	0.91672	80.35353	74.11035	-1.4483	0.56863	0.69047	69.14393	47.86714
0.33386	0.9015	4482.694	4063.474	1.41784	0.00001	1.41784	3898.875	5523.545
0.1056	1.1047	6120.388	6754.815	1.04872	0.67663	1.04872	8227.01	8635.687
0.93074	1.01357	259.4067	264.9118	1.13433	0.55453	1.13433	236.1293	267.26
0.08555	0.86402	1713.643	1471.522	-1.03562	0.77231	0.96561	1372.515	1324.998
0.97429	1.0021	651.6937	653.8675	1.20832	0.00153	1.20832	732.6191	885.1534
0.9046	1.0311	155.6512	163.5815	-1.50199	0.19471	0.66578	151.6227	101.167
0.0173	1.13119	2801.686	3172.907	1.25324	1.81E-07	1.25324	2921.432	3661.564
0.77971	0.98049	1947.708	1922.508	-1.21166	0.00032	0.82531	1676.769	1385.584
0.78	1.01689	4509.527	4599.515	-1.06227	0.26796	0.94138	4651.499	4393.699
0.72254	0.95755	545.0473	524.3329	-1.08538	0.51302	0.92134	551.1762	504.1581
0.66015	1.05568	238.7018	251.979	-1.09289	0.53259	0.915	250.6953	229.2874
0.97823	1.00241	412.2198	412.4442	1.03805	0.68751	1.03805	436.2966	452.1852
0.50628	0.88438	488.9804	443.7098	-1.2723	0.01046	0.78598	565.564	444.8576
0.90347	0.98973	782.9967	771.0807	-1.05344	0.52282	0.94927	789.8356	751.648
1.30E-07	0.72844	2092.235	1523.31	-1.86311	3.09E-22	0.53674	2009.798	1077.127
0.30467	1.17061	903.9258	1063.442	1.10968	0.1941	1.10968	970.2242	1078.927
0.0384	1.09328	28945.11	31628.03	1.24045	0.00252	1.24045	29431.48	36494.06
0.01044	0.75119	1616.126	1198.947	-2.34802	0.00017	0.42589	1452.272	583.8931
0.37775	1.06521	1284.479	1361.249	1.00683	0.90811	1.00683	1470.437	1481.275
0.00526	1.1808	4196.651	4959.164	-1.20666	0.00051	0.82874	5166.477	4278.777
1.82E-09	0.63574	3419.133	2169.292	1.26303	2.44E-07	1.26303	2492.249	3148.718
0.54965	1.05243	2169.101	2268.247	-1.03588	0.47329	0.96536	2279.65	2202.32
0.19059	0.84509	285.6838	242.0482	-1.36195	0.06562	0.73424	302.5872	223.6364
0.73233	1.11542	96.68596	108.8756	1.17281	0.61018	1.17281	101.3506	118.4138
0.06927	1.2324	11866.28	14658.71	-2.35584	9.08E-14	0.42448	15296.57	6371.419
0.96916	0.99323	768.1562	752.2954	2.06677	1.59E-12	2.06677	586.8962	1211.785
0.04965	0.88309	860.2485	758.7854	1.0486	0.4404	1.0486	699.7571	733.991
0.74808	0.95963	636.2097	616.8896	1.01512	0.78442	1.01512	963.4246	978.1928
0.33808	1.16033	260.0803	298.4785	1.02916	0.69166	1.02916	692.0288	711.4772
0.40169	1.05765	4170.944	4399.498	-1.02551	0.54434	0.97512	4658.596	4543.007
0.39747	0.89267	348.2253	313.3015	-1.09428	0.40324	0.91385	334.8126	306.0429
0.8669	1.01571	5330.917	5491.593	2.27233	1.40E-45	2.27233	4632.932	10516.71
0.37284	1.11263	434.0239	478.967	1.09251	0.2972	1.09251	444.0556	484.8666
0.2061	0.88475	3314.13	2935.683	1.83384	1.43E-06	1.83384	2766.189	5137.813

0.00948	1.17395	2190.464	2568.761	1.6597	0.00003	1.6597	2110.771	3508.69
0.49223	1.07017	2574.705	2754.087	-1.02527	0.56304	0.97535	2461.603	2401.037
0.95169	1.01116	163.5248	165.0749	-1.17514	0.6382	0.85096	140.1842	117.213
0.03723	1.16506	20868.75	24379.03	-1.32393	0.00062	0.75532	22294.75	16719.9
0.68899	0.97677	4107.135	4028.499	-1.08352	0.24886	0.92292	4082.584	3775.496
0.86437	1.01521	342.6489	347.9813	-1.01915	0.84843	0.98121	409.8647	401.5451
0.0034	0.69099	3970.422	2738.033	1.92139	6.54E-07	1.92139	3920.537	7626.597
0.02302	1.09701	5805.208	6367.681	1.02421	0.63545	1.02421	6037.32	6185.011
0.27183	0.77182	247.9301	198.6897	-1.28726	0.46352	0.77684	174.802	136.0846
0.95911	1.02202	66.13663	67.55712	1.2135	0.70515	1.2135	72.97784	88.02126
0.21835	0.85979	479.5455	408.4968	-1.01325	0.89505	0.98693	398.1972	393.5783
0.98121	1.02282	30.73722	31.35003	-1.02381	0.97523	0.97675	45.5318	44.55161
0.81103	1.02109	493.3506	502.7149	7.47985	0	7.47985	546.8961	4100.602
0.47433	1.08303	282.5035	306.1288	1.16472	0.43502	1.16472	259.2241	298.2307
0.98198	1.00223	1015.533	1012.877	-1.02739	0.71485	0.97334	1138.49	1111.835
0.04144	0.89154	1802.929	1605.311	-1.0365	0.63741	0.96478	1621.953	1567.614
0.13582	0.74232	350.3671	268.0647	-1.35969	0.01628	0.73546	367.6289	270.2914
0.48227	1.06673	362.8261	386.4413	1.05798	0.61667	1.05798	353.267	372.9795
0.56456	1.06813	461.8588	497.1502	-1.06492	0.54532	0.93904	496.0799	464.2085
0.83024	1.02327	418.0933	425.4551	-1.0659	0.52422	0.93818	490.9385	459.1429
0.15552	1.0692	3254.798	3478.419	-1.2657	0.00001	0.79008	3950.479	3117.353
0.3158	0.93705	957.4951	899.1069	1.06324	0.27129	1.06324	817.6887	869.5845
0.14852	0.8644	4388.678	3813.963	-1.01198	0.88439	0.98816	4542.853	4470.062
0.87043	1.03929	153.7804	160.1622	1.03755	0.8906	1.03755	123.5759	127.9027
0.91732	0.93379	52.51375	49.06629	1.09559	0.89513	1.09559	50.74249	54.81318
0.50637	0.80393	118.6735	96.1921	-1.19228	0.75807	0.83873	83.84848	71.91975
0.54506	0.96564	1158.207	1116.588	1.01146	0.84028	1.01146	1164.655	1178.463
0.20151	0.50908	88.1186	45.1171	-1.80016	0.50482	0.55551	62.64411	34.12961
0.46406	1.06463	514.8035	546.3439	-1.14805	0.07257	0.87104	537.7565	468.1734
0.41406	1.06921	419.7029	448.1274	1.58999	0.00008	1.58999	358.9971	567.6105
0.56765	0.96073	2239.275	2153.27	1.07058	0.20209	1.07058	2008.697	2150.876
0.65882	1.02722	2512.601	2572.635	-1.04691	0.29014	0.95519	2603.452	2487.417
0.53761	0.90902	8774.905	7708.977	-1.2825	5.86E-06	0.77973	7879.249	6140.329
0.00284	0.78834	768.4622	607.8878	-1.28672	0.07141	0.77717	634.449	487.7687
0.65366	0.97193	1650.028	1602.721	1.05666	0.50738	1.05666	2245.807	2368.69
0.06219	1.2732	217.8717	277.7875	-1.32854	0.43543	0.75271	140.4309	105.3574
0.25699	0.9	2129.87	1911.039	-1.80138	1.37E-32	0.55513	2119.799	1176.775
0.90688	1.00713	826.2594	833.2941	-1.20477	0.00789	0.83004	922.4026	764.2825
0.20712	0.80027	860.6769	678.1627	-1.82466	3.20E-10	0.54805	791.9597	434.989
0.39496	1.06372	1420.711	1517.824	-1.05891	0.35034	0.94436	1608.11	1515.412
0.81126	0.95563	162.8747	155.2173	-1.27081	0.39553	0.7869	145.0517	114.8306
0.25832	0.83067	4152.596	3429.154	-1.65212	2.56E-06	0.60528	3015.278	1798.789
0.85087	1.02767	343.6514	357.0435	1.03328	0.83635	1.03328	317.6081	326.5123
0.68919	0.95686	3226.344	3109.382	1.24362	0.05672	1.24362	3393.245	4219.263
0.51007	0.96588	1288.398	1242.826	-1.04516	0.55792	0.95679	1207.704	1149.54
0.11666	0.83219	3146.876	2596.816	1.99422	1.80E-09	1.99422	2495.019	5055.09
0.16199	0.7954	2511.57	2017.443	-1.35485	0.01208	0.73809	1328.966	978.4625
0.00167	0.72955	2570.511	1865.326	-1.52958	5.34E-06	0.65377	2230.059	1451.125
0.51287	0.93915	833.6245	779.1694	1.78117	8.39E-15	1.78117	677.0989	1204.449
0.34762	1.07625	1296.226	1385.774	1.00323	0.95047	1.00323	2536.199	2540.722
0.65373	0.88273	136.9079	122.4734	-1.96818	0.18363	0.50808	87.11379	44.44962
0.89193	1.00785	842.9849	848.9164	-1.03149	0.63732	0.96948	752.1499	728.6232

0.92444	0.99213	642.124	638.2179	-1.09578	0.24194	0.91259	671.2804	613.603
0.56207	0.91271	8846.83	7923.906	-1.80352	9.39E-23	0.55447	8482.256	4690.889
0.16592	1.07884	1029.183	1111.602	-1.06198	0.26688	0.94163	1100.402	1035.57
0.77669	1.40813	24.20092	34.26141	1.35934	0.848	1.35934	20.5323	36.92458
0.0182	0.77	1222.186	933.088	-1.2543	0.00201	0.79726	998.8524	797.6338
0.82558	0.74339	29.86227	23.86109	1.6491	0.64197	1.6491	33.9451	61.77295
1	1	18.6576	23.42675	1	1	1	17.51438	30.55069
0.88667	0.96558	156.3939	153.0705	1.20629	0.48867	1.20629	164.6309	194.32
0.67229	0.97862	2374.045	2326.244	-1.10362	0.12776	0.90611	2342.251	2123.853
0.35675	0.94824	2256.319	2143.169	-1.07948	0.31307	0.92637	2263.582	2099.195
0.00005	1.23693	9051.225	11191.63	-1.70494	8.82E-10	0.58653	13469.05	7792.479
0.00006	0.7366	1901.448	1395.043	-1.63651	2.44E-11	0.61105	1616.397	989.1929
0.98798	1.00089	3684.823	3685.231	1.24119	2.52E-06	1.24119	3285.147	4077.418
0.56077	1.03596	643.8818	667.3252	-1.05268	0.39448	0.94995	731.6409	695.0748
1	1	17.99994	23.18085	1	1	1	17.8669	29.17808
0.43572	1.07075	1372.179	1466.83	1.08535	0.22229	1.08535	1593.901	1735.568
0.49372	1.08074	533.0516	580.802	-1.77398	8.11E-07	0.56371	584.0838	327.608
1	1	17.46003	23.82011	1	1	1	18.65236	29.37302
0.80189	1.09155	111.6649	124.3607	-1.19317	0.93272	0.8381	41.39455	34.69287
0.90132	1.01068	910.7362	924.6273	-1.1675	0.03195	0.85653	809.4359	692.1845
0.73173	0.96757	6866.638	6684.099	1.62076	1.82E-18	1.62076	6423.947	10413.61
0.84035	1.01621	2244.172	2274.554	-1.04701	0.43136	0.9551	2051.364	1958.984
0.63121	1.04473	4791.1	5040.133	-1.07043	0.2604	0.9342	3739.624	3497.29
0.75631	0.98494	1561.992	1537.389	-1.1475	0.03195	0.87146	1691.841	1471.831
0.06714	1.09502	1876.077	2055.833	-1.07831	0.0865	0.92738	2065.052	1915.156
0.13922	1.09038	751.7502	819.0233	-1.12587	0.08864	0.88821	879.8853	780.7361
0.03468	1.21578	10201.73	12409.53	-2.22112	5.08E-16	0.45022	14715.82	6512.515
0.05236	0.82611	3814.38	3142.208	1.1147	0.07621	1.1147	3235.188	3613.623
0.61676	0.961	3864.447	3713.737	-1.26134	2.98E-06	0.79281	2929.167	2321.67
0.64811	1.02833	712.5767	731.9625	-1.12541	0.23985	0.88856	739.5682	654.1821
0.36115	0.93572	1268.709	1184.589	-1.17393	0.0018	0.85184	1427.304	1216.412
0.03596	1.11149	1344.998	1492.725	1.12558	0.01688	1.12558	1537.883	1732.954
0.06967	0.76888	347.4517	269.5093	-1.40961	0.22475	0.70942	296.7597	210.0143
0.00004	0.70883	16377.88	11696.15	2.06337	4.47E-38	2.06337	11495.74	23689.71
0.04188	1.18486	583.4248	688.6933	1.29628	0.00003	1.29628	611.7429	793.2855
0.36947	1.05627	1403.668	1474.651	-1.0778	0.15326	0.92782	1600.509	1483.267
0.61204	1.03327	1179.166	1222.422	1.12373	0.0616	1.12373	1113.45	1250.562
0.39592	1.04334	4172.489	4358.616	-1.27385	2.81E-06	0.78502	4440.203	3488.146
0.75865	0.96545	367.2575	353.3581	1.31491	0.00067	1.31491	638.2486	840.9086
0.00005	0.78737	169952.5	133807.5	-1.4689	1.02E-10	0.68078	196860	133735.8
0.37983	0.92965	21314.36	19851.46	-1.04275	0.52425	0.959	20475	19641.51
0.00239	1.3348	5925.661	7831.29	-3.23614	5.76E-16	0.30901	9952.956	2961.196
0.46525	1.10267	1872.525	2075.423	2.64891	5.55E-22	2.64891	1696.961	4514.586
0.74084	1.04524	796.6257	843.4715	-1.58862	0.00005	0.62948	538.6954	337.6393
0.08164	0.81561	4965.275	4039.824	1.07131	0.13123	1.07131	4214.641	4515.939
0.00663	1.1471	10170.06	11663.83	1.70699	9.90E-13	1.70699	9696.17	16576.71
0.07308	0.83855	14187.68	11913.7	1.7024	1.89E-28	1.7024	11185.5	19033.84
0.50853	1.18459	133.7285	160.7105	1.72237	0.10276	1.72237	98.86266	167.4127
0.6828	0.96418	400.8242	386.7416	1.04797	0.61251	1.04797	370.0219	387.6468
0.69168	1.26417	66.76309	79.11898	-1.1027	0.85125	0.90687	98.64989	87.69043
0.46302	1.06798	734.5527	789.1204	-1.16592	0.05008	0.85769	654.0879	560.1998
0.47639	1.08568	391.8542	423.5981	1.01968	0.75576	1.01968	717.7418	731.4834

0.73233	1.01975	1576.739	1607.773	-1.01212	0.86052	0.98803	1559.097	1540.46
0.39253	0.94406	4689.374	4439.983	1.00616	0.93876	1.00616	4504.766	4513.877
0.96399	1.02082	69.63112	71.48326	1.00932	0.98874	1.00932	51.62006	52.30335
0.88659	0.99318	6094.01	6053.663	1.25755	3.34E-07	1.25755	5629.303	7079.94
0.13797	0.83189	651.117	535.975	1.1283	0.27064	1.1283	550.3141	617.6636
0.68256	0.97177	1170.049	1142.79	-1.16234	0.06774	0.86033	1124.088	962.0927
0.00297	0.69472	1187.616	818.3579	1.09684	0.31573	1.09684	864.2592	952.4465
1.97E-31	0.58859	5855.233	3445.627	-1.21993	0.00948	0.81972	5031.139	4125.374
0.5587	0.87248	225.5693	200.7228	-2.50887	0.00236	0.39859	170.2874	67.67953
0.66726	1.0481	585.3641	609.0078	-1.01725	0.79863	0.98304	603.6144	593.394
0.43581	0.9258	445.7935	411.0929	1.08193	0.52825	1.08193	394.7889	429.3259
0.0023	0.6353	369.203	232.329	-1.51116	0.03689	0.66174	291.5142	192.9893
0.74298	0.9675	3793.529	3693.476	1.31342	0.00123	1.31342	3535.969	4654.591
0.8513	0.97833	765.6978	742.5521	1.57411	0.00029	1.57411	747.7214	1190.695
0.92036	0.99099	2207.228	2174.129	-1.16591	0.02652	0.8577	2192.055	1889.925
0.93934	0.98874	499.4053	497.9055	-1.47532	0.01975	0.67782	338.7771	231.7535
1	1	18.92753	24.19141	1	1	1	16.49232	32.34364
0.97089	1.00874	204.212	200.8653	1.06769	0.7501	1.06769	153.3709	163.5859
0.05332	0.91446	11442.26	10464.63	-1.07511	0.14877	0.93013	10042.41	9336.89
0.00709	1.18168	1436.793	1704.526	1.36954	0.00003	1.36954	1481.12	2020.329
0.67315	0.96166	23490.36	22645.34	1.03749	0.68988	1.03749	22745.45	23559.01
0.45348	1.03833	1268.745	1316.285	-1.00432	0.93957	0.99569	1322.862	1318.5
0.71605	0.94045	248.3441	231.1177	-1.02496	0.86154	0.97564	259.8665	253.8033
0.80305	1.12056	61.45474	68.31591	1.11558	0.87889	1.11558	44.72646	49.87665
0.27642	0.76846	200.7718	152.5645	-1.04127	0.88949	0.96037	153.1586	149.0226
0.92137	1.00718	3540.373	3578.054	-1.12493	0.04558	0.88894	3456.207	3068.124
0.72329	0.97385	1441.881	1415.523	-1.1597	0.05994	0.86229	1306.631	1124.703
0.72327	1.02132	2100.367	2141.372	-1.01015	0.87933	0.98995	1896.137	1878.536
0.80642	1.03926	393.7101	403.3331	1.70269	1.51E-08	1.70269	349.029	595.3806
0.12136	0.90278	5677.386	5129.337	1.22394	0.00178	1.22394	5156.809	6312.733
0.32536	1.06259	10313.44	10949.18	1.09272	0.32877	1.09272	10960.23	11925.75
0.91736	1.01568	1101.271	1128.622	-1.02915	0.63736	0.97168	1123.041	1090.926
0.10766	0.90897	3497.759	3186.914	-1.12318	0.12879	0.89033	3483.109	3085.044
0.00017	1.2088	1280.063	1547.964	1.0292	0.75208	1.0292	1443.231	1474.137
0.88204	0.97765	511.084	507.0718	-1.61842	0.0069	0.61789	341.1117	213.1865
0.87516	0.98775	867.1298	860.1898	1.01668	0.84674	1.01668	783.7201	794.6326
0.01522	1.16368	1726.88	2013.08	-2.51361	5.47E-44	0.39783	2223.48	884.487
0.64485	0.96308	5850.384	5639.234	1.33638	0.01065	1.33638	4969.131	6695.792
0.2747	1.06306	4471.054	4761.097	-1.08842	0.17169	0.91876	4554.084	4182.591
0.48476	0.86638	252.5981	220.744	-1.07247	0.7407	0.93243	179.2051	167.1523
0.43048	1.10179	276.7739	305.1274	1.12971	0.56665	1.12971	237.5975	262.8409
0.99466	0.99667	86.15625	83.32176	1.20484	0.536	1.20484	127.9245	152.1426
0.68692	1.06383	606.2208	654.6711	-1.72578	1.13E-08	0.57945	880.0614	507.9872
0.93204	1.02342	118.7931	122.3145	1.34241	0.49085	1.34241	130.0775	163.2552
0.9529	1.00526	1603.543	1615.52	-1.40092	3.79E-06	0.71382	1884.794	1342.47
0.59737	0.69821	46.46087	32.49018	-1.11007	0.93307	0.90084	36.62878	32.66338
0.15666	1.06601	1830.452	1950.244	1.12761	0.03825	1.12761	1927.511	2167.918
0.7651	0.95922	571.4244	554.5259	-1.25722	0.02818	0.79541	432.7631	344.4656
0.61234	0.69166	51.49177	35.12019	-1.34124	0.78712	0.74558	36.42897	32.51791
0.09946	0.74349	16615.14	12122.72	-1.06592	0.68312	0.93815	15564.76	14366.05
0.03073	1.0975	4498.426	4934.697	1.25532	0.00017	1.25532	4718.888	5926.215
0.12423	1.10697	2194.53	2434.83	1.02946	0.65213	1.02946	2412.071	2483.602

0.02705	0.81758	635.3596	517.3182	1.52801	0.00076	1.52801	503.2675	765.66
0.24462	1.10207	421.3213	465.0686	-1.0811	0.3704	0.92498	420.9589	389.46
0.01348	1.2351	1532.741	1889.345	1.33969	1.57E-07	1.33969	1801.192	2416.713
0.47136	0.92559	569.9724	524.2877	-1.0415	0.70569	0.96015	592.6062	571.8315
3.99E-07	1.23012	6155.622	7572.451	1.15213	0.12394	1.15213	7278.225	8376.125
0.37254	0.92053	1350.063	1238.519	1.40058	0.00004	1.40058	1256.531	1761.471
0.85456	0.98157	525.9418	515.468	-1.05432	0.54684	0.94848	491.1167	465.6643
0.78834	0.97206	312.9847	304.6109	1.14944	0.21827	1.14944	275.1309	316.3996
0.00003	1.2186	2485.723	3027.619	1.55204	9.84E-12	1.55204	2616.419	4068.649
0.64122	1.03262	737.8685	763.757	-1.26364	0.00667	0.79136	787.6732	625.0375
0.7916	0.95063	230.6878	222.0591	-1.21631	0.32036	0.82216	229.9957	187.7873
0.98753	0.99852	709.2852	709.8812	-1.11665	0.0378	0.89554	1345.97	1206.387
0.7996	1.01271	2403.545	2436.628	1.00932	0.87335	1.00932	2306.643	2319.72
0.00003	1.97671	4840.747	10002.49	3.1201	6.32E-15	3.1201	4745.493	15145.19
0.33827	0.85587	557.2711	485.6056	-1.95092	4.47E-08	0.51258	386.575	198.1993
0.01505	0.8291	1829.141	1518.894	-1.122	0.04328	0.89127	1611.347	1436.161
0.28055	0.87705	4302.791	3734.157	-1.2327	5.15E-06	0.81123	3235.317	2624.336
0.00434	1.13264	3000.729	3398.489	-1.17334	0.0358	0.85227	3705.595	3140.877
0.66918	1.03612	1635.699	1693.214	1.5254	1.66E-07	1.5254	1315.285	2014.932
0.47464	1.09738	319.8269	348.648	1.00285	0.98528	1.00285	351.3467	354.5085
0.6147	0.95053	1257.856	1205.567	1.067	0.36174	1.067	1122.063	1194.561
0.88494	1.01865	291.3094	296.5049	-1.25261	0.06762	0.79834	310.0732	247.4978
0.20796	1.09002	2091.39	2281.11	-1.03786	0.4881	0.96352	1942.019	1873.709
0.28366	1.07001	782.9771	837.2812	1.12857	0.00972	1.12857	1493.854	1685.837
0.00379	0.6772	1066.74	711.7708	-1.15801	0.16559	0.86355	816.1878	708.0133
0.11662	1.12938	7305.966	8243.657	-2.30953	0	0.43299	7664.544	3318.589
0.7289	0.97555	1233.135	1205.186	-1.20062	0.02314	0.8329	1110.047	922.028
0.90179	1.00759	1099.039	1110.491	-1.04197	0.53905	0.95972	1128.934	1082.737
0.50936	1.13252	1120.799	1276.354	-4.91358	0	0.20352	1581.004	319.9704
0.1616	0.76346	2356.822	1798.049	-1.09643	0.36846	0.91205	1953.971	1779.384
0.35785	0.91288	379.4189	346.407	-1.01625	0.87575	0.98401	341.0898	335.7086
0.86504	1.02341	370.865	376.4949	1.14658	0.34261	1.14658	351.1273	405.7697
0.03923	1.09596	3971.313	4353.417	-1.11255	0.14954	0.89884	4344.764	3893.6
0.46887	1.03192	5352.476	5521.802	1.45286	2.00E-16	1.45286	5196.5	7548.064
0.63848	1.03331	5866.002	6077.998	-1.44862	0.00005	0.69031	5554.464	3810.126
0.03788	1.10489	11689.33	12932.16	-1.03992	0.54471	0.96161	12424.96	11924.74
1	1	18.35057	23.5183	1	1	1	17.14908	30.53547
0.03114	1.11504	3312.376	3697.992	-1.06189	0.41034	0.94172	4048.022	3817.245
0.51391	1.1327	197.0729	222.9538	1.22869	0.25299	1.22869	224.8225	274.4513
0.90083	0.9886	667.7921	663.6456	-1.05604	0.49205	0.94693	680.5648	643.3248
0.20368	1.17293	915.6873	1063.57	-1.09938	0.3747	0.9096	1056.361	965.3408
0.73462	1.02439	786.9359	805.8916	1.01547	0.84767	1.01547	1302.733	1317.556
0.29484	0.89403	2351.04	2111.044	-1.20913	0.00045	0.82704	1930.786	1599.493
0.97029	0.99404	239.2469	239.4897	-1.13428	0.53493	0.88162	247.5969	215.7208
0.75594	1.11645	120.6705	129.4392	2.99987	0.0003	2.99987	81.93484	246.0941
0.00239	0.76429	1347.215	1017.43	-2.24581	1.62E-06	0.44527	553.2425	248.8024
0.2969	1.08822	1401.411	1531.518	-1.0959	0.1586	0.91249	1625.304	1479.936
0.28898	1.05245	1602.058	1684.63	1.10245	0.11497	1.10245	1621.485	1786.886
0.99826	0.99977	1389.976	1390.294	-1.62818	9.01E-06	0.61418	1305.907	804.2513
0.89695	1.03012	150.7782	154.1858	1.04203	0.89168	1.04203	124.2481	129.2564
0.48018	0.84446	247.6411	217.8705	-2.2112	0.00215	0.45224	213.9383	97.18243
0.01777	0.89713	2740.194	2457.911	1.17654	0.00071	1.17654	2431.058	2861.054

0.02463	1.30441	296.9946	387.0205	1.18806	0.06979	1.18806	803.8554	958.4111
0.06999	1.13825	1506.276	1713.567	-1.13577	0.03528	0.88046	1679.52	1474.657
0.31936	1.04986	1483.186	1558.581	-1.05378	0.44615	0.94897	1548.342	1468.289
0.51305	1.08389	451.9966	486.3326	1.02927	0.76311	1.02927	527.0776	543.6636
0.06529	1.10888	1911.607	2121.586	-1.06036	0.18313	0.94307	2121.685	2000.597
5.51E-06	0.72321	3173.206	2295.472	1.22278	0.00042	1.22278	2822.666	3439.437
0.81237	0.98325	1942.611	1920.857	-1.15353	0.10942	0.86691	1997.609	1725.235
0.81792	0.81944	49.97142	42.40733	-1.00384	0.99689	0.99618	30.14359	33.9366
0.30952	0.93956	2731.908	2562.982	-1.03648	0.43281	0.9648	2379.225	2296.719
0.87489	0.98766	634.828	629.0281	1.00741	0.93398	1.00741	602.9071	605.8063
0.99151	0.98766	32.70001	30.35851	1.35926	0.83809	1.35926	26.09844	37.71757
0.17163	1.08111	1945.157	2111.257	1.05576	0.2196	1.05576	1994.888	2105.852
0.2012	1.1746	408.5566	475.4951	2.24032	9.19E-21	2.24032	372.0071	832.1335
0.98928	0.99926	2192.945	2195.072	1.08097	0.26882	1.08097	2253.356	2432.439
0.58793	1.09011	213.9162	231.8889	1.03675	0.82692	1.03675	201.3479	208.9855
0.84431	0.98584	2021.318	1977.227	1.01108	0.8553	1.01108	1878.667	1905.583
0.08745	1.08523	5812.084	6298.021	2.07769	5.25E-21	2.07769	8001.617	16655.23
0.015	1.18218	12956.87	15299.24	-1.22411	0.06281	0.81692	16652.63	13538.72
0.93898	1.00702	527.9042	533.713	1.28427	0.03575	1.28427	454.9074	580.6867
0.36691	1.06798	1265.138	1348.106	-1.0716	0.32574	0.93319	1322.77	1236.124
0.9567	0.98956	178.2542	177.5583	-1.0467	0.86789	0.95538	154.1225	145.6917
0.66567	1.05842	230.2941	244.2748	1.15448	0.39669	1.15448	240.6971	275.8685
0.41634	1.05364	4737.009	4998.187	1.09166	0.10113	1.09166	4475.188	4881.864
0.4252	0.87311	1078.299	951.0462	-1.52864	0.00565	0.65418	570.1433	376.45
0.79608	1.03824	267.7671	280.1325	1.0215	0.88731	1.0215	241.0828	245.7156
0.39062	0.95689	1705.736	1634.716	1.46926	7.06E-16	1.46926	1604.734	2357.292
0.46079	0.91645	1980.595	1835.491	-1.19548	0.0096	0.83648	1777.765	1486.755
0.11102	1.08822	2376.615	2591.858	-1.0994	0.05813	0.90959	1964.037	1787.425
0.38046	1.08492	646.4818	698.5648	-1.0221	0.80858	0.97838	602.2278	589.994
0.58825	1.07791	397.2961	433.6848	-1.81784	7.86E-06	0.5501	421.7241	231.0948
0.00141	0.81361	3543.914	2875.5	1.05078	0.29051	1.05078	3104.49	3262.114
0.03785	1.12218	5794.41	6465.011	-1.11456	0.15881	0.89722	7137.982	6425.695
0.06893	0.8882	766.9799	681.6605	1.97142	4.14E-27	1.97142	662.0379	1304.387
0.65001	1.05413	416.5635	437.3782	1.06805	0.50019	1.06805	463.5089	496.4138
0.23325	0.92201	9011.189	8346.635	1.38241	1.54E-11	1.38241	9359.854	12930.63
0.58557	0.91746	228.1418	209.0149	-1.07075	0.72017	0.93392	238.0474	220.4388
0.66563	1.02432	4200.629	4298.885	1.09156	0.05309	1.09156	4312.003	4704.616
0.36145	1.07872	4398.987	4718.433	1.02603	0.66962	1.02603	4794.628	4927.998
0.12025	0.89405	2122.798	1894.134	1.12789	0.01172	1.12789	1789.931	2019.211
0.0057	0.80928	30982.54	25108.44	1.1057	0.28106	1.1057	30968.02	34200.55
0.36956	1.06909	2807.902	2996.919	1.0146	0.78211	1.0146	5694.101	5762.619
0.12266	1.15798	15903.33	18512.49	-1.52237	0.00038	0.65687	20083.05	13058.92
0.54416	1.17036	135.6438	156.4186	1.76214	0.04703	1.76214	121.8208	211.631
0.78016	0.97093	526.4166	512.9387	-1.0162	0.91357	0.98406	418.6751	411.8868
3.14E-08	0.39705	1659.195	640.6069	-1.91656	0.00011	0.52177	1637.188	837.2077
0.71336	1.05293	384.4851	411.0653	-1.087	0.23795	0.91997	711.7648	655.3221
0.74631	1.01582	3984.309	4057.068	-1.00497	0.93591	0.99505	3769.479	3742.01
0.42323	0.96089	4238.839	4078.615	1.06286	0.35068	1.06286	4093.78	4340.735
0.88862	1.01169	1001.294	1010.372	-1.04035	0.57433	0.96121	1531.96	1468.97
0.62205	1.0395	1960.523	2027.603	1.02432	0.6269	1.02432	2735.182	2805.319
0.15123	1.06884	2351.029	2510.383	1.0633	0.17969	1.0633	2621.872	2787.824
0.26635	0.83931	737.204	608.2299	1.34188	0.02103	1.34188	628.5482	851.2272

1.45E-08	0.74178	2551.078	1892.737	-1.78499	2.97E-18	0.56023	2036.296	1142.009
0.94524	1.01003	251.3695	252.6664	-1.13044	0.4778	0.88461	231.9212	205.1262
0.24015	1.06638	2789.885	2969.307	1.02817	0.59679	1.02817	3117.874	3212.625
0.92422	0.99227	779.8375	777.3019	-1.20326	0.00481	0.83108	781.9862	650.3942
0.32959	0.8082	8015.919	6508.975	-1.51981	8.91E-12	0.65798	5667.267	3716.197
0.02199	0.64525	500.7542	315.264	1.10438	0.46008	1.10438	362.8142	403.229
0.49308	1.05509	768.702	808.0894	1.11845	0.10969	1.11845	774.0696	866.8538
0.45571	0.77364	158.813	122.5562	1.0389	0.89197	1.0389	138.5726	145.05
0	0.38308	5577.438	2136.019	-3.62122	1.60E-28	0.27615	3631.769	998.6526
0.5065	1.02806	12744.21	13096.34	-1.33882	5.96E-08	0.74692	13830.03	10340.84
0.00805	1.14357	2386.857	2729.298	-1.09166	0.0454	0.91604	2511.13	2299.771
0.47534	1.05648	481.9955	508.4404	1.0045	0.96108	1.0045	497.6179	499.0327
0.75177	1.01652	1790.593	1817.99	-1.40167	2.14E-11	0.71344	1775.109	1266.733
0.1564	1.0873	2697.31	2943.041	1.02167	0.71236	1.02167	2877.475	2938.067
0.94734	0.99332	695.6971	695.8924	-1.20796	0.16875	0.82784	698.2246	572.5832
0.83185	0.9611	151.3818	145.5066	-1.01149	0.96794	0.98864	139.6234	139.362
0.24801	0.93037	6265.728	5830.79	-1.13258	0.01848	0.88294	5273.992	4655.865
0.24814	1.08307	770.1074	832.0047	1.07395	0.1642	1.07395	895.8423	962.0908
0.13967	1.10768	640.6633	710.8467	1.20845	0.08111	1.20845	549.5928	660.8776
0.30951	1.08192	716.8137	777.9396	1.35802	1.81E-07	1.35802	721.8136	980.1306
0.50553	0.85348	179.7607	153.0096	-1.10505	0.72	0.90494	156.9137	140.9849
0.05559	1.18697	10492.93	12380.99	-1.94625	3.48E-08	0.51381	14626.36	7402.596
0.03554	1.57615	109480.4	173999.8	-2.57693	1.34E-09	0.38806	202423.2	77049.3
0.96726	1.05398	29.11929	30.26631	1.10463	0.93821	1.10463	22.01416	35.49425
0.93683	1.03751	74.19014	77.05442	1.04922	0.92838	1.04922	60.53435	63.6413
0.72145	1.02811	1033.312	1059.451	1.20027	0.03293	1.20027	897.3761	1079.548
0.35254	1.10414	4464.331	4948.637	-1.70491	2.20E-11	0.58654	5017.409	2929.027
0.00152	0.73631	2892.614	2129.216	-1.06925	0.14659	0.93524	2235.794	2090.595
0.77127	0.80252	65.46812	48.6609	1.30122	0.77899	1.30122	36.35077	53.57893
0.88524	1.01561	339.6403	345.8115	-1.83789	0.00988	0.5441	278.8531	150.1952
0.01008	0.72231	991.3807	709.7661	1.1735	0.04216	1.1735	864.4992	1016.289
0.52241	1.05807	447.7625	474.7706	-1.44671	0.00088	0.69122	426.3746	295.2701
0.97764	1.01926	50.25006	51.34971	-1.09223	0.91061	0.91556	41.50332	37.85535
0.90211	1.04862	98.38848	103.2847	1.09817	0.78205	1.09817	106.296	116.6335
0.85782	1.01962	687.6619	695.5762	1.07364	0.49726	1.07364	633.9082	683.6039
1	1	19.62404	23.71867	1	1	1	18.14664	32.54742
0.51001	1.04217	967.5021	1006.946	-1.06438	0.26727	0.93952	914.4913	859.2332
0.48047	1.04231	3223.081	3375.283	-1.07603	0.30969	0.92934	3504.115	3259.438
0.00997	1.18182	502.9533	594.4646	1.1723	0.08122	1.1723	532.0835	622.0178
0.85413	0.97193	317.226	305.019	-1.0208	0.85678	0.97962	321.2303	314.9735
0.00006	0.69601	3168.105	2201.172	-1.03717	0.69169	0.96416	2621.283	2534.187
0.96314	0.99419	246.0099	244.2175	-1.07246	0.6178	0.93243	266.0923	247.6389
3.90E-06	0.70943	6476.692	4581.67	1.09921	0.08782	1.09921	5470.089	6015.391
0.01498	1.26768	2050.917	2603.773	-1.25535	0.06765	0.79659	3117.361	2468.963
0.3531	1.06315	1588.803	1688.745	1.02313	0.69201	1.02313	1432.736	1468.021
0.62773	1.07167	237.0135	252.825	1.1774	0.19296	1.1774	259.0819	305.0429
0.85776	1.01034	1741.929	1756.267	1.03208	0.49603	1.03208	1821.102	1880.318
0.24519	0.81878	15270.3	12399.42	1.5016	0.00014	1.5016	11697.54	17661.72
0.53412	0.89494	292.8083	266.0346	-1.31556	0.2023	0.76013	226.6182	172.0429
0.11252	0.82936	4080.248	3383.986	1.03002	0.73644	1.03002	3150.874	3245.479
0.45291	1.04033	5364.387	5596.582	1.05218	0.52787	1.05218	4793.687	5027.237
8.79E-09	0.6759	4070.782	2749.421	1.1119	0.03795	1.1119	3142.835	3495.622

0.8801	1.04054	124.5618	129.1532	1.27056	0.52866	1.27056	88.00186	112.4329
0.14076	0.84368	802.3637	679.5007	-1.00135	0.99099	0.99865	935.7159	927.935
0.81705	1.01547	808.1274	822.4654	1.05346	0.44313	1.05346	790.8514	834.0045
0.76468	1.02511	566.1428	581.7985	-1.20619	0.02336	0.82906	578.1481	478.723
0.80168	1.05054	222.8481	238.3442	1.03634	0.86973	1.03634	214.1725	218.9349
0.23716	1.07985	2210.428	2381.085	-1.03965	0.42979	0.96187	2165.051	2083.18
1	1	18.88266	24.19524	1	1	1	17.17936	31.32661
1	1	17.89149	24.86512	1	1	1	17.07216	29.90662
0.56393	1.13234	323.7551	351.6599	1.35233	0.01899	1.35233	325.806	438.2489
0.89615	0.99326	1757.652	1744.276	-1.10258	0.20742	0.90696	1755.58	1593.539
0.00006	0.64785	34473.83	22267.48	-1.02309	0.78579	0.97743	28629.34	28064.18
0.64148	1.05193	424.1558	447.7104	-1.02232	0.88533	0.97817	396.9439	383.3557
0.8518	1.01403	1385.08	1396.19	-1.14917	0.07043	0.8702	1695.925	1479.187
0.33846	0.93926	2048.333	1937.302	-1.14659	0.06274	0.87215	1905.056	1651.917
0.41427	1.06843	2705.78	2883.537	-1.03528	0.58907	0.96593	2610.771	2534.891
0.00051	0.66493	5438.825	3609.569	-1.14094	0.13959	0.87647	4682.891	4104.094
0.98103	0.99054	86.0397	83.96302	-1.12985	0.78974	0.88507	90.39464	80.11761
0.63789	1.17716	109.7779	125.6445	1.61146	0.11325	1.61146	83.54816	134.3398
0.95373	0.99176	3544.298	3546.311	-1.33549	0.00002	0.74879	3528.552	2639.297
0.11001	0.87863	3030.243	2680.502	-1.33963	0.00013	0.74648	1883.939	1407.067
0.9008	0.95348	100.0525	97.03291	-1.0046	0.99403	0.99542	70.73233	69.63582
0.96736	0.97718	68.33134	67.16478	1.02692	0.96805	1.02692	61.47516	62.77778
0.49122	1.05737	2758.296	2920.725	-1.10226	0.1779	0.90723	2841.127	2575.582
0.94732	0.98232	142.4415	141.2736	-1.10958	0.68556	0.90125	182.1148	162.4296
0.49831	1.07788	3028.667	3207.149	-1.7188	5.04E-14	0.5818	4249.488	2459.136
0.00048	0.66561	14315.84	9433.983	-1.04701	0.61679	0.9551	12798.58	12196.04
0.00023	0.56016	1606.114	886.6065	-1.45251	0.00027	0.68846	1158.987	800.8427
0.72497	1.03587	4120.799	4285.297	1.79393	2.89E-11	1.79393	4214.381	7511.345
0.55641	0.95171	607.1929	575.7522	1.10497	0.28168	1.10497	517.8264	573.8202
1	1	17.77248	22.73971	1	1	1	17.72902	32.40378
0.13142	0.75298	8715.973	6455.196	-2.36553	5.19E-13	0.42274	5642.495	2366.77
0.02376	1.42431	27826.44	39456.16	-3.47504	2.22E-11	0.28777	55145.95	14975.41
0.0613	1.13301	627.3456	711.6973	1.20738	0.01568	1.20738	1532.569	1861.172
0.91822	0.98746	1168.781	1153.992	1.4639	1.73E-06	1.4639	997.1451	1463.616
0.41053	0.92038	365.9071	337.5726	-1.12229	0.27232	0.89104	355.1635	316.2993
0.84873	1.0145	722.6009	735.3158	-1.09304	0.22581	0.91488	749.7362	684.9038
0.60086	0.96795	1334.744	1288.476	-1.02725	0.59019	0.97347	1268.492	1235.252
0.35604	0.86687	451.3978	396.7066	-1.25625	0.08001	0.79602	316.2781	251.2787
0.88558	0.99179	2524.687	2500.635	-1.36354	2.19E-10	0.73339	2859.066	2098.26
0.7399	1.04274	527.8671	555.9793	-1.91981	0.00007	0.52088	489.8652	252.2994
0.09633	1.10415	922.2678	1016.548	1.10053	0.06619	1.10053	993.3902	1093.353
0.04886	1.17131	18984.27	22272.29	-1.78759	4.95E-11	0.55941	22679.09	12514.1
0.70613	1.04638	1961.213	2098.065	2.15337	4.98E-18	2.15337	1601.945	3442.738
0.40125	0.885	5554.794	4844.06	-1.98585	1.94E-33	0.50356	4861.218	2449.347
0.45739	0.96068	2299.761	2206.636	-1.15213	0.0376	0.86796	1764.727	1526.098
0.43048	1.09936	1266.141	1410.281	-1.56288	1.35E-10	0.63984	1123.198	718.2078
0.58436	1.05694	7368.189	7694.086	-1.51683	4.62E-18	0.65927	11609.08	7652.498
0.30461	0.86715	743.9341	638.2101	1.35574	0.00744	1.35574	768.3554	1046.719
0.8703	0.94605	115.0311	106.6244	1.16508	0.74831	1.16508	91.06878	103.6431
0.88921	0.98632	436.9318	429.8265	1.97701	0.00001	1.97701	384.6572	755.6481
0.71387	0.97935	1929.068	1887.638	1.11433	0.09771	1.11433	2083.961	2314.314
0.86062	0.92413	94.14607	84.69765	-1.17572	0.57816	0.85054	132.1757	112.9651

0.89296	1.05052	80.73247	84.78851	1.11386	0.83737	1.11386	70.72519	79.00296
0.23193	1.09305	486.1882	531.0365	-1.98649	5.79E-06	0.5034	476.1442	241.9172
0.96664	0.99096	172.4809	169.3129	1.05574	0.74419	1.05574	201.1956	212.5096
0.00712	1.14687	2455.168	2815.943	1.04383	0.54205	1.04383	2517.473	2629.368
0.98275	1.01356	59.24203	59.04118	1.18162	0.77697	1.18162	62.73668	72.48045
0.97093	1.00934	157.5101	161.7018	-1.00027	0.99903	0.99973	160.0967	159.4339
0.84006	0.98351	548.7669	541.2333	-1.19834	0.09594	0.83449	453.6074	378.1446
0.94934	1.00548	509.1531	510.7871	-1.2102	0.03052	0.82631	509.5845	420.9669
0.04506	0.88993	848.6153	754.785	-1.24602	0.00954	0.80255	798.8544	642.7297
0.17261	0.86212	863.2368	747.3756	-2.22935	5.72E-17	0.44856	710.6368	318.0572
0.86481	1.07923	78.70464	84.84641	1.08793	0.70944	1.08793	134.8119	146.5675
0.45602	1.04151	1168.401	1216.476	-1.39706	8.55E-10	0.71579	1135.55	812.9746
0.31861	1.04471	3363.111	3516.129	1.05885	0.38383	1.05885	4360.919	4633.159
0.51439	0.93457	339.1901	317.5024	-1.24538	0.07183	0.80297	296.8872	238.4582
0.93538	0.98074	134.0169	132.1031	1.61468	0.08795	1.61468	110.6525	176.9397
0.99376	0.99957	6159.326	6177.734	-1.0064	0.92479	0.99364	5821.852	5786.047
0.00063	1.15534	10181.88	11759.8	-1.30102	0.00163	0.76863	13400.87	10222.43
0.84595	1.04616	233.2614	250.8647	-1.35842	0.07152	0.73615	226.6124	166.6709
9.38E-07	0.79339	22961.11	18220.46	1.05411	0.27599	1.05411	20838.45	21976.92
0.99549	0.99562	41.02263	40.81881	-1.06863	0.93349	0.93578	58.65373	55.48338
0.19771	0.88389	737.4671	649.7881	-1.00023	0.99749	0.99977	937.2346	936.564
0.73211	1.03162	968.5564	992.7408	1.00476	0.94803	1.00476	832.9441	838.6096
0.03411	1.14048	591.5617	674.3294	1.52675	2.80E-07	1.52675	598.7731	912.4768
0.17194	1.18969	308.3416	364.8486	1.41877	0.00139	1.41877	300.0452	425.1646
0.88499	0.98441	394.4514	386.3433	1.03589	0.74441	1.03589	358.065	370.24
0.23299	1.0719	4922.478	5281.144	1.04127	0.4698	1.04127	5424.043	5640.568
0.00001	1.30834	1941.223	2532.094	1.45268	0.00104	1.45268	1583.766	2314.52
0.03331	1.46589	42262.46	60798.52	-4.76524	2.89E-11	0.20985	90793.48	17646.63
0.98342	0.99805	556.4072	553.6249	1.05331	0.54828	1.05331	484.8968	511.5457
0.90127	1.06569	67.73242	71.93153	-1.17521	0.8256	0.85091	59.9226	50.4386
0.69045	0.88887	136.1216	123.2459	1.17952	0.57236	1.17952	162.2898	197.5891
0.38837	0.90455	451.5241	411.6707	-1.56312	0.00378	0.63975	455.3127	288.8387
0.28537	1.15052	548.8916	638.9421	-1.54667	1.24E-06	0.64655	554.9304	358.3666
0.02255	0.82842	1567.003	1294.227	1.25004	0.00056	1.25004	1408.96	1761.031
0.5224	0.95044	507.2863	482.2415	-1.1734	0.10915	0.85222	423.407	360.8401
0.22162	1.21813	213.196	261.7484	1.12635	0.28108	1.12635	467.5674	523.8499
0.79689	1.02055	514.3716	523.8347	1.16651	0.06377	1.16651	539.6962	630.7786
0.18825	1.06171	7044.058	7470.917	-1.02534	0.55419	0.97529	7128.841	6951.316
0.57644	1.02935	2146.296	2211.028	1.10613	0.03051	1.10613	2377.264	2628.44
0.0385	0.7798	5629.977	4388.732	1.28636	0.03462	1.28636	4742.396	6128.24
0.00114	1.16667	6464.287	7539.761	-1.4644	0.00001	0.68287	9094.401	6134.616
0.50067	0.9072	1110.096	1003.5	1.31198	0.00002	1.31198	979.0337	1285.002
0.92173	0.92328	39.14224	36.83917	-1.16824	0.89054	0.85598	27.16735	31.44477
0.02572	0.77251	2813.433	2176.588	-1.02319	0.72063	0.97733	2312.669	2263.072
0.93056	1.03854	63.09245	65.3693	1.20961	0.79243	1.20961	58.54434	67.49376
0.87276	1.02555	8591.799	8723.647	-1.88626	1.37E-08	0.53015	9281.157	4839.251
0.97026	0.99774	2048.274	2036.862	-1.0635	0.38129	0.94029	1917.59	1802.671
1	1	16.84649	23.42889	1	1	1	17.783	30.94454
0.67956	0.95614	441.6214	419.7607	-1.28625	0.04875	0.77745	383.3106	298.8106
0.53802	0.96919	3661.046	3545.809	-1.00593	0.91377	0.99411	3352.186	3325.549
0.03416	0.66536	390.3562	253.4731	1.06863	0.58435	1.06863	287.408	307.3901
0.43716	1.08474	332.5694	360.0632	1.135	0.33531	1.135	275.7233	313.655

0.46467	1.03264	15669.42	16185.04	-1.02002	0.65805	0.98037	15803.02	15504.42
0.41365	0.91704	2950.516	2697.813	1.56479	9.99E-06	1.56479	2567.533	4027.132
0.91388	0.91523	51.96202	46.24223	-1.05026	0.9619	0.95214	34.86089	33.51572
0.37953	0.95991	2138.792	2054.948	-1.01688	0.82533	0.9834	2041.962	2005.248
0.04811	0.81026	4806.46	3906.775	-1.21993	0.01217	0.81972	2237.914	1838.621
0.92968	1.00607	1678.184	1696.058	-1.20681	0.00008	0.82863	1596.684	1323.413
0.32414	0.90418	37079.9	33310.41	-1.24937	0.06372	0.8004	35387.44	28367.08
0.93023	0.9693	145.523	149.9835	-1.2383	0.47445	0.80756	195.9835	153.7413
0.42808	0.92786	55021.16	50916.11	1.04382	0.63003	1.04382	60081.56	62625.96
0.66935	1.03916	929.1717	960.1542	1.02174	0.79114	1.02174	895.2244	917.4259
0.95341	0.99601	7790.999	7770.696	1.2943	0.00008	1.2943	7819.354	10116.53
0.19826	0.90359	943.2675	855.6712	-1.15405	0.1326	0.86651	823.5104	710.6665
0.01435	1.10575	10521.19	11636.51	-1.31872	1.64E-10	0.75831	8958.359	6794.395
0.00012	0.6943	5485.246	3810.723	-1.32798	0.00129	0.75302	4576.789	3443.708
0.29156	1.26324	2917.334	3675.559	-2.90569	2.86E-12	0.34415	4632.896	1548.896
0.17397	1.06311	2384.47	2536.334	1.05991	0.18477	1.05991	2800.587	2968.437
0.34727	1.0539	2391.635	2529.475	-1.05848	0.39296	0.94475	2392.346	2256.189
0.7718	0.96735	314.3113	304.5884	-1.23729	0.11382	0.80822	318.1448	256.6895
0.00009	0.79432	865.1003	687.413	-1.21733	0.0691	0.82147	705.0418	581.9324
0.50107	1.05825	1253.308	1328.47	-1.60631	5.02E-13	0.62254	1220.346	760.1621
0.65082	1.07067	307.7089	327.5525	1.16621	0.24202	1.16621	489.5173	567.3565
0.26947	1.05287	6220.053	6517.077	-1.02959	0.48246	0.97126	7413.882	7203.607
0.75897	0.93777	562.6587	536.5317	-1.88727	0.00782	0.52987	350.8284	185.7608
0.14015	0.85607	663.5511	571.5883	1.02066	0.91226	1.02066	458.7196	461.4335
0.75366	1.07315	1519.443	1644.276	-2.96928	7.63E-10	0.33678	1182.381	398.2044
0.06765	1.10981	1070.823	1187.948	1.00767	0.87787	1.00767	2179.099	2197.987
0.72199	0.83438	76.13987	64.93825	-1.01755	0.97437	0.98275	64.86056	64.198
0.85786	0.81659	33.06926	26.41583	1	1	1	21.01653	30.90084
0.93721	0.96866	89.1953	88.14691	1.08654	0.87225	1.08654	71.66531	77.07529
0.33929	0.87997	442.9121	385.4923	1.28044	0.04464	1.28044	350.9966	447.269
0.70408	1.02932	4586.857	4726.903	1.46388	1.58E-12	1.46388	4046.315	5918.2
0.01816	1.27794	1654.398	2131.978	1.31447	1.37E-08	1.31447	1484.978	1951.769
0.40673	0.93511	512.0075	479.2431	-1.04335	0.78757	0.95845	437.2224	412.5953
0.00571	0.83862	16943.76	14183.78	-1.0825	0.33917	0.92379	18312.46	16902.33
0.01613	0.88225	1249.726	1102.842	-1.19002	0.00101	0.84032	1090.209	915.9912
0.83326	0.94082	119.2991	111.6558	1.23326	0.47779	1.23326	97.32169	120.066
0.98252	0.99682	296.8562	298.4099	-1.06439	0.69789	0.93951	204.7209	192.2656
0.22015	0.91726	1560.098	1432.292	-1.12957	0.11957	0.88529	1271.926	1123.455
0.01682	0.80795	1007.464	810.9545	-1.00178	0.98152	0.99822	768.098	765.0459
0.04666	1.08585	3722.779	4042.649	-1.06841	0.20515	0.93597	5504.296	5162.13
0.60149	1.06979	338.2593	360.8747	1.03535	0.7553	1.03535	334.4655	345.9494
0.62765	1.04685	430.6038	452.1813	-1.19313	0.27564	0.83813	502.7325	414.991
0.00635	1.14737	1121.341	1286.172	1.24359	0.00185	1.24359	1005.42	1248.517
0.87984	1.0161	508.3678	514.4348	-1.16994	0.06636	0.85474	565.4557	484.0917
0.20335	1.09361	4602.852	5022.325	-1.19842	0.00048	0.83443	5202.009	4343.858
0.50273	1.05741	3774.731	3969.75	1.01016	0.83005	1.01016	4148.398	4188.162
0.40103	1.13903	689.5986	796.1172	-2.32374	1.81E-06	0.43034	971.4761	418.0657
0.86531	1.02714	210.702	216.3318	1.33107	0.18589	1.33107	206.5239	276.9885
0.48224	1.06641	526.0087	562.9497	-1.02777	0.73616	0.97298	503.7708	490.5436
0.4068	1.0453	1424.797	1492.648	-1.06184	0.41735	0.94177	1434.279	1346.379
0.06989	1.09805	15107.18	16602.79	-1.13563	0.05958	0.88057	17831	15726.35
0.68911	1.05611	359.7636	378.8052	-1.0277	0.8906	0.97305	272.3964	270.4774

0.95237	0.99467	642.3916	641.7583	-1.17883	0.10025	0.8483	518.3903	441.0111
0.32929	1.05141	2620.955	2753.697	-1.16736	0.18987	0.85663	2698.092	2311.273
0.65487	0.96939	716.1768	693.155	1.00879	0.90233	1.00879	649.0629	654.1681
0.58342	0.95454	13632.1	13032.72	1.20514	0.01026	1.20514	13700.11	16502.88
0.87901	0.96471	155.0334	150.632	-1.11168	0.73416	0.89954	137.4728	123.5831
0.95638	1.04051	47.91977	51.36988	-1.52323	0.28446	0.6565	111.6435	73.43901
0.88013	1.07995	64.76696	69.83582	1.69028	0.26169	1.69028	51.71002	87.35998
0.00042	1.22099	1608.68	1963.986	1.52675	3.55E-06	1.52675	2047.861	3134.749
0.38459	1.07219	6363.455	6865.232	-1.07802	0.23381	0.92763	6202.241	5764.816
0.22814	1.07409	3917.091	4228.551	-1.05058	0.49169	0.95186	4098.993	3906.907
0.06126	1.08365	2612.879	2831.666	-1.0078	0.87232	0.99226	3003.501	2979.695
0.84118	1.0101	10534.75	10647.13	-1.06145	0.4561	0.94211	11428.82	10721.8
0.80907	1.01935	1368.662	1387.649	-1.02235	0.71004	0.97814	1491.664	1460.913
0.54849	0.93374	848.4135	798.5316	-1.65564	1.98E-09	0.604	763.8983	460.7802
0.18394	0.60809	114.5466	69.16393	-1.63603	0.46016	0.61124	86.85503	51.12786
1	1	15.86337	23.45772	1.19126	0.92121	1.19126	17.17344	32.35376
0.46182	1.21152	189.0141	234.9721	-1.02677	0.84433	0.97393	262.632	255.4788
0.09056	0.67917	221.5601	147.871	-1.18358	0.36982	0.84489	215.6794	181.5449
0.02612	1.1504	4144.052	4774.135	-1.21849	0.01607	0.82069	5388.148	4396.619
0.594	1.08059	1300.563	1419.825	-1.50654	6.61E-06	0.66377	1255.512	832.6987
1	1	18.93024	25.36457	1	1	1	17.98905	33.22524
0.97702	0.99843	2074.081	2076.07	-1.17908	0.00519	0.84812	2114.531	1793.92
0.00179	0.62615	1276.499	790.413	1.18758	0.0433	1.18758	839.0619	1000.217
0.90635	1.02806	161.8716	167.3512	-1.0475	0.75156	0.95466	281.7924	267.9499
0.096	0.81739	510.7258	416.1146	1.14539	0.41612	1.14539	394.3127	458.308
0.99943	0.99989	301.5568	298.9037	1.08893	0.51374	1.08893	264.8088	288.6389
0.37639	1.10189	308.0823	340.3962	-1.08405	0.51051	0.92247	369.0283	339.3264
0.67494	1.02769	1456.883	1491.864	1.03668	0.51542	1.03668	1384.532	1437.628
0.99913	1.00013	479.0488	474.6459	1.22534	0.07832	1.22534	435.9647	537.0515
0.07126	1.34523	150.7543	202.5847	-1.05149	0.85543	0.95103	127.7163	121.9246
0.06442	0.75893	2180.438	1633.145	1.07489	0.58412	1.07489	1618.79	1761.934
0.76905	0.95413	951.3889	915.2377	-2.98419	1.66E-24	0.3351	696.4591	233.8933
0.00045	0.53063	820.5712	424.0417	-1.21089	0.16066	0.82584	602.8019	501.0044
0.21711	1.08615	2197.675	2372.114	1.00358	0.93639	1.00358	2329.438	2338.945
0.58783	0.89284	1351.396	1218.762	-1.45443	1.03E-07	0.68756	950.0188	652.7249
0.12389	1.07539	8734.413	9383.516	1.01625	0.69507	1.01625	9603.279	9759.598
0.36449	1.07438	881.8919	943.3259	1.03687	0.5403	1.03687	922.5734	957.3835
0.6798	1.0542	379.7474	404.1116	-1.19049	0.35693	0.83999	274.2141	232.7868
0.2671	0.85586	903.6264	768.9588	1.24777	0.00014	1.24777	1081.101	1349.644
0.51755	0.9545	776.616	739.3682	-1.13012	0.18209	0.88487	674.1897	598.4075
0.00063	0.60421	8302.313	5174.876	-1.79639	0.0001	0.55667	2654.7	1437.64
0.52706	1.10472	292.694	318.7933	1.20372	0.22608	1.20372	414.9114	495.04
0.59269	1.09077	275.9992	297.61	-1.02859	0.80561	0.9722	328.3535	319.6081
0.0029	1.21196	1598.416	1938.972	1.47974	1.81E-08	1.47974	1585.698	2346.394
0.00908	1.23106	891.7017	1101.863	1.53532	5.33E-07	1.53532	943.0104	1448.297
0.43462	1.0505	949.2478	999.4907	-1.16019	0.05194	0.86193	905.4644	778.6544
0.70993	1.01874	3611.545	3672.924	-1.01203	0.80897	0.98811	3108.938	3069.386
0.15213	1.07772	5213.525	5627.766	-1.04737	0.56687	0.95477	5335.04	5105.118
0.14607	0.79408	837.9633	655.8788	1.02246	0.79483	1.02246	826.5742	847.0281
0.63525	1.0342	1417.778	1468.057	1.47611	4.64E-07	1.47611	1086.09	1607.959
0.8047	0.8917	87.99696	77.12511	-1.09391	0.84581	0.91415	103.9244	92.09871
0.53154	0.90968	215.7105	196.2682	-1.25234	0.35518	0.79851	187.2101	150.8781

0.12351	0.9306	2834.594	2638.892	-1.02102	0.73207	0.97941	2166.154	2125.04
0.06264	0.71487	681.5879	476.2312	-1.056	0.74003	0.94697	547.8553	524.1845
0.7616	1.01732	14572.75	14795.77	-1.1453	0.0041	0.87314	15349.7	13391.9
0.31692	1.246	162.7448	205.8937	1.13167	0.60044	1.13167	170.6709	192.9018
0.05855	0.85059	6628.778	5660.65	-1.08545	0.31599	0.92128	5649.976	5243.091
0.21262	1.06215	2027.771	2153.62	2.1025	1.24E-19	2.1025	1897.675	4002.312
0.00039	0.86025	5881.61	5058.077	-1.12715	0.01019	0.8872	5287.496	4691.06
0.71876	1.02459	1527.605	1571.938	-1.01029	0.8802	0.98982	1578.907	1562.079
0.39436	0.93251	1052.033	974.9929	-1.02231	0.80085	0.97818	901.8868	885.4846
0.87562	1.02793	236.0977	239.7668	1.16864	0.33934	1.16864	240.3538	279.3066
0.75201	1.18196	50.90656	60.28123	-1.33422	0.78184	0.7495	41.13384	34.59791
0.4531	0.86707	3572.585	3085.12	-1.92268	8.58E-23	0.52011	3073.865	1603.114
0.13933	0.8703	576.8743	499.7096	2.50736	2.14E-36	2.50736	487.0751	1220.431
0.95955	1.00279	4649.458	4675.793	-1.18336	0.00466	0.84505	5110.037	4308.25
0.00003	0.69088	986.2877	678.5966	-2.10276	3.02E-22	0.47556	717.5123	341.2473
0.4989	1.04365	1095.128	1139.002	-1.01333	0.82019	0.98684	1039.434	1026.76
0.78729	1.0373	946.9302	985.144	-1.73552	1.42E-26	0.57619	1523.716	878.1434
0.41937	1.09079	4827.044	5347.966	1.13096	0.03147	1.13096	4428.015	5013.451
4.92E-10	0.54575	1932.445	1052.084	-1.98678	2.59E-21	0.50333	1560.877	785.0869
0.6385	0.95417	4486.111	4295.222	-1.28971	3.44E-06	0.77537	3955.642	3061.373
0.06942	0.90295	1093.915	986.8755	1.04825	0.45368	1.04825	962.8094	1008.302
0.69941	1.03408	3802.594	3940.12	-1.11086	0.12074	0.9002	4002.126	3619.219
0.96333	0.99015	155.8734	154.3227	-1.05803	0.86659	0.94515	133.7103	128.7966
0.84191	1.19217	36.327	42.29502	1.16099	0.85976	1.16099	43.85163	51.18432
0.54862	0.95475	522.3013	498.268	-1.36738	0.02743	0.73133	433.8444	319.7374
0.93844	0.97768	104.2321	101.353	-1.10752	0.77784	0.90292	121.4429	111.31
0.11443	1.07672	2185.066	2352.414	-1.1509	0.00335	0.86888	2135.406	1855.562
1	1	20.00467	25.80542	1.16718	0.91651	1.16718	24.02779	36.06453
0.09289	1.10691	1852.552	2057.016	-1.17994	0.00953	0.8475	1981.155	1675.739
0.58873	0.95703	2910.639	2791.867	1.20865	0.00737	1.20865	3104.535	3740.584
0.64512	1.02563	986.4573	1010.836	1.0155	0.82673	1.0155	1095.066	1109.849
0.53272	0.96749	2280.433	2210.144	1.08716	0.09993	1.08716	2211.752	2405.601
0.01319	0.77138	548.5236	425.5687	-1.18859	0.14214	0.84133	470.935	394.5982
0.94129	0.95433	88.20783	75.25203	2.82928	0.01274	2.82928	59.75497	167.4229
0.98839	0.99925	1884.155	1884.812	-1.00372	0.95091	0.9963	1942.018	1930.662
0.06991	1.08668	2346.581	2548.114	-1.09375	0.09525	0.91428	2521.704	2303.396
0.59389	0.94449	829.2134	787.8903	-1.3241	0.00014	0.75523	705.4421	532.2197
0.49494	0.95725	882.7487	843.772	1.03409	0.604	1.03409	788.4548	814.4894
0.9464	1.01561	153.1129	153.975	1.0441	0.86743	1.0441	130.5514	136.0454
0.37141	1.0607	2125.948	2245.844	-1.04418	0.34173	0.95769	2458.229	2354.974
0.00313	0.7951	1314.87	1048.698	-1.82857	4.09E-12	0.54687	1190.319	649.7234
0.00121	0.69251	3113.145	2141.272	-1.10897	0.15844	0.90174	2384.316	2156.847
0.76312	0.95037	233.4449	223.6821	1.10609	0.544	1.10609	217.523	239.8053
0.78819	1.13448	70.9722	78.88464	2.23398	0.01562	2.23398	62.99693	140.5272
0.36857	0.85349	3903.38	3250.483	1.37099	0.03869	1.37099	3447.823	4713.326
0.02976	1.14405	3986.219	4551.631	-1.14151	0.05825	0.87603	3966.367	3473.244
0.48838	0.9184	27560.14	25463.16	1.70899	4.84E-07	1.70899	29190.93	50228.2
0.51137	1.0733	436.6279	471.6092	1.12953	0.05527	1.12953	688.8629	778.5548
0.37918	1.16359	2593.99	2991.044	-2.4733	0	0.40432	3280.598	1324.934
0.93092	0.99006	366.1096	361.9337	-1.00249	0.98171	0.99752	377.1222	377.0434
0.80287	0.95178	380.7434	372.636	-1.35702	0.00212	0.73691	475.623	349.8796
0.11117	0.82738	4082.655	3368.812	-1.11568	0.22294	0.89632	3460.647	3101.854

0.05097	0.71838	1104.237	796.3169	-2.17857	9.42E-27	0.45902	932.5816	428.406
0.25343	1.05612	9920.557	10489.27	-1.03322	0.55783	0.96785	11147.89	10797.85
0.64667	1.02867	661.3582	679.9873	-1.15089	0.06411	0.8689	732.1904	635.2494
0.00183	0.85845	14886.63	12769.25	-2.21057	1.17E-10	0.45237	13720.72	6112.007
0.00003	1.23334	2406.176	2964.479	2.04957	1.33E-10	2.04957	2535.605	5241.586
0.00263	0.7847	568.3965	446.7033	-1.15241	0.38306	0.86775	486.1327	417.2101
0.75137	0.95162	242.6956	232.5136	-1.16938	0.27842	0.85515	243.8411	208.3758
1.95E-06	0.72974	7441.434	5427.237	-1.0258	0.59713	0.97485	6534.596	6374.569
0.27794	1.16155	333.8757	383.1967	1.76342	5.32E-07	1.76342	342.2371	600.7454
0.31205	0.88887	1178.309	1043.052	1.46406	0.00241	1.46406	1199.652	1765.845
0.64073	1.05668	412.5779	432.5526	-1.00884	0.9324	0.99124	374.9423	371.1442
0.22184	1.09688	2545.417	2749.718	1.08612	0.2479	1.08612	2252.098	2455.974
0.01718	1.27232	595.4502	762.0471	-3.35531	1.82E-15	0.29803	410.3751	122.5298
0.95962	0.99407	312.3767	311.5596	-1.31537	0.04981	0.76024	362.4609	274.1607
0.52855	0.88394	391.1744	351.9859	-1.21578	0.28559	0.82252	305.6627	251.1427
0.41008	0.93354	7639.19	7088.128	-1.03204	0.73135	0.96896	6882.521	6705.569
0.62277	0.89779	214.7885	196.6263	-1.1744	0.46266	0.8515	203.0788	173.0815
0.19328	1.07057	3069.267	3283.682	-1.15496	0.07756	0.86583	3632.99	3127.924
0.61759	1.04068	481.1151	501.6119	1.06575	0.61927	1.06575	446.6366	473.3494
0.46702	0.95778	1720.279	1645.138	1.22595	0.00109	1.22595	1738.271	2132.158
0.0076	1.20904	15295.22	18425.71	-1.53027	0.00053	0.65348	22136.09	14208.27
0.62231	1.03811	826.8658	855.5062	1.05077	0.44344	1.05077	918.7798	966.8856
0.00051	1.17411	1573.21	1847.995	-1.13671	0.01026	0.87973	1795.686	1578.424
0.01946	1.37211	2077.923	2843.016	-2.03251	3.12E-07	0.492	3864.069	1827.502
0.10089	0.76279	622.0374	464.6127	1.32669	0.00253	1.32669	621.3463	827.5905
0.03755	1.14962	4976.558	5721.317	-1.41393	1.83E-07	0.70725	5536.9	3921.104
0.34821	0.48495	54.54893	26.16829	-1.05146	0.96013	0.95106	37.39854	36.30821
0.09578	1.12677	8606.318	9737.284	-1.31416	0.00287	0.76094	10457.19	7855.91
0.55513	0.85222	10156.24	8313.542	-3.93602	0	0.25406	8054.937	2053.391
0.94455	1.01099	1120.231	1146.166	-1.4214	0.00007	0.70353	1020.35	715.3492
0.39471	1.04912	5303.099	5572.079	-1.06804	0.15804	0.93629	4246.637	3976.363
0.99694	0.99628	34.99807	34.99105	1.32992	0.73656	1.32992	49.60219	71.72729
0.27052	1.36938	132.0674	175.7012	1.62385	0.08261	1.62385	130.8466	210.6778
0.24989	1.13793	247.5846	281.9767	-1.20909	0.35762	0.82707	258.0404	210.5311
0.43428	1.10105	2769.5	3011.425	3.96606	4.80E-21	3.96606	3083.537	12420.71
0.49838	0.89572	272.751	247.0817	-1.12756	0.4773	0.88687	225.4261	200.0036
0.63491	0.92485	627.3368	569.995	1.69055	0.00002	1.69055	470.7276	802.1981
0.73765	0.93156	241.2589	229.5918	-2.73105	0.02774	0.36616	202.0155	75.05676
0.37929	1.08826	614.5774	665.0068	-1.14477	0.07713	0.87354	588.0554	514.1459
2.52E-11	0.72793	5352.405	3898.158	1.22442	0.00043	1.22442	4832.294	5922.391
0.79805	0.72288	36.31845	29.17748	-1.14718	0.89064	0.8717	40.00621	35.2597
0.52683	1.04065	1187.575	1237.376	1.09569	0.20409	1.09569	2699.748	2980.589
0.01138	0.83994	17206.66	14349.9	-1.10025	0.21226	0.90889	18709.84	17028.98
0.00242	0.79124	3963.456	3147.813	-1.18083	0.06141	0.84686	2208.039	1871.154
0.31946	0.85033	466.9099	389.154	1.75772	2.33E-10	1.75772	628.1101	1108.688
0.60608	0.93326	247.6601	231.5197	1.21147	0.14061	1.21147	241.2781	292.3641
0.00008	0.76778	4360.301	3340.724	1.29463	0.00028	1.29463	3488.124	4513.473
0.07951	1.14967	835.7405	958.4489	1.63178	2.62E-14	1.63178	843.4243	1374.539
0.53372	1.066	706.4442	747.6367	1.15918	0.02348	1.15918	709.6135	821.7737
0.81579	0.80158	46.77707	37.40434	1.42988	0.26209	1.42988	96.82335	139.5003
0.61916	1.05274	964.4387	1002.757	1.03437	0.60951	1.03437	1111.588	1150.813
0.04383	0.79183	14740.51	11777.09	1.18215	0.07228	1.18215	13913.7	16497.18

1	1	18.00241	22.95873	1	1	1	18.5984	30.21447
0.48678	1.03735	1784.687	1848.49	1.17758	0.00016	1.17758	1860.321	2190.69
0.52068	1.06586	898.6996	962.8314	-1.21687	0.13597	0.82178	855.4399	697.0096
0.02806	0.78878	621.3173	486.4698	-1.00698	0.94407	0.99307	705.6743	703.6917
0.42522	1.06325	4533.818	4882.898	1.04451	0.40359	1.04451	6556.062	6855.547
0.13706	0.83186	8312.545	6911.658	1.21901	0.05788	1.21901	7389.295	8973.566
0.30456	1.06847	696.9096	744.2826	-1.98174	1.71E-11	0.50461	665.9059	335.4664
0.1348	0.8873	2140.808	1904.223	-1.01982	0.75096	0.98056	2096.456	2055.732
4.75E-06	0.7318	2190.802	1610.162	-1.15533	0.00333	0.86556	2444.013	2117.179
0.60593	1.1176	192.5317	211.696	-1.00006	0.9995	0.99994	367.9142	368.1111
0.93974	0.98564	207.5835	202.2584	-1.14132	0.63876	0.87618	163.4944	145.2317
0.08128	1.09112	5101.727	5574.987	1.10166	0.13139	1.10166	5689.053	6270.792
0.95541	0.94802	48.46529	43.79824	1.2415	0.6109	1.2415	92.23392	116.9128
0.48257	0.92615	585.7261	546.3298	-1.30459	0.0001	0.76653	730.9009	560.5079
0.56465	0.96345	1627.593	1574.236	1.0046	0.92607	1.0046	1469.158	1475.919
0.19504	0.66419	131.9902	86.8103	1.51041	0.18074	1.51041	94.83601	143.3236
0.92002	0.99416	817.5381	811.9731	-1.14428	0.11052	0.87391	710.2988	622.2897
0.51255	1.03947	2544.013	2650.918	1.0546	0.37415	1.0546	2798.417	2949.251
0.91768	0.9905	768.6643	760.3786	1.02653	0.58792	1.02653	1414.432	1451.423
0.75178	0.98139	965.8253	949.5051	1.01492	0.78755	1.01492	866.9733	880.1145
0.0933	0.92875	2975.121	2763.735	-1.01238	0.76874	0.98777	2558.275	2527.011
0.12846	1.2826	19049.84	24181.93	-2.10311	1.13E-07	0.47549	33973.2	15748.79
0.36919	1.04566	1477.627	1543.5	-1.00036	0.99394	0.99964	1636.686	1636.77
0.3768	0.90338	508.4363	455.5175	1.11395	0.16467	1.11395	474.0125	528.2181
0.49396	1.04967	905.2272	953.8334	-1.07391	0.16871	0.93117	1507.93	1404.63
0.63052	0.89725	290.6816	264.9731	-1.08521	0.65345	0.92148	318.9527	298.6774
0.03732	1.16008	2181.792	2515.874	1.03261	0.59035	1.03261	2763.063	2862.719
0.87495	1.04848	120.3262	127.8241	-1.00095	0.99715	0.99905	128.6162	128.3015
0.94626	1.00905	231.1453	232.8658	1.08774	0.63189	1.08774	208.431	226.0824
0.51539	0.84333	126.0628	106.5834	-1.02948	0.94219	0.97136	86.53892	84.05441
0.55999	1.03785	5457.15	5647.521	-1.05301	0.22382	0.94966	5873.847	5578.228
0.61282	1.02797	1171.996	1206.046	-1.13933	0.14524	0.87771	1287.275	1126.876
0.65328	1.03127	1253.545	1292.883	1.38793	0.00017	1.38793	1328.031	1842.089
0.61645	1.07764	284.8406	304.3877	-1.01394	0.91919	0.98625	307.0119	303.7392
1.63E-06	1.40418	973.5839	1363.636	1.80393	9.60E-20	1.80393	1070.159	1935.609
0.19427	1.06047	1617.406	1714.658	1.12674	0.01934	1.12674	1769.775	1994.44
0.56969	0.93987	2344.533	2228.12	-1.1733	0.02988	0.85229	1783.492	1514.3
0.02565	1.12984	1302.001	1469.158	-1.06357	0.23122	0.94023	1351.431	1269.786
0.79353	0.90382	92.85716	82.70741	-1.16432	0.73976	0.85887	128.889	106.2985
0.0463	1.14183	1478.4	1683.449	1.27326	0.00018	1.27326	1736.062	2215.349
0.29468	1.09318	363.9342	397.9246	1.207	0.11709	1.207	334.7468	405.6278
0.83153	1.0251	1131.386	1164.232	-1.48217	4.20E-07	0.67469	969.6858	655.0501
0.86526	0.97834	877.9851	854.8691	1.5465	0.00045	1.5465	765.596	1195.021
0.44493	1.06445	2119.718	2240.918	-1.09027	0.09216	0.9172	2553.354	2340.032
0.9259	1.01276	1777.984	1816.139	1.83905	2.98E-39	1.83905	1585.557	2915.901
0.37696	1.04658	2039.358	2133.909	-1.09701	0.07236	0.91157	1999.045	1819.786
0.67177	0.77801	92.14401	78.54121	-1.7654	0.50194	0.56644	63.61438	34.96909
0.67354	0.8785	7108.44	5677.957	-14.65461	1.68E-28	0.06824	6012.751	406.1668
0.27771	0.92236	3238.636	3003.943	-1.04266	0.59919	0.95909	3428.194	3286.092
0.21901	1.13287	768.3104	875.523	-1.07273	0.43147	0.9322	899.989	836.8142
0.00221	0.73847	5163.455	3823.744	1.08782	0.07285	1.08782	4342.243	4724.904
0.14918	1.06675	3602.094	3846.088	-1.16713	0.00614	0.8568	3681.575	3151.649

0.03914	1.12004	3235.551	3629.792	1.41913	3.15E-08	1.41913	3726.301	5302.668
1	1	19.45972	24.58681	1	1	1	17.92018	31.36379
0.15706	1.07402	1319.137	1418.368	1.00435	0.9351	1.00435	1514.588	1521.927
0.50165	1.0385	5752.599	5923.391	-1.16306	0.00701	0.8598	7158.709	6156.935
0.23364	1.06712	1651.42	1766.197	-1.08269	0.10167	0.92363	1813.901	1676.405
0.81083	1.01836	864.0645	883.0717	1.01256	0.86073	1.01256	924.5586	934.167
0.99171	1.00921	42.14455	43.10081	-1.02335	0.97939	0.97719	39.73122	38.82192
0.85163	0.98961	2180.071	2163.866	-1.0604	0.33475	0.94304	2137.104	2014.681
0.77401	0.9849	2440.896	2407.282	1.06377	0.25017	1.06377	2539.434	2698.701
0.4309	0.8222	142.7811	117.9111	-1.55948	0.31385	0.64124	121.4645	77.20899
0.75686	1.03521	2151.307	2218.277	1.02261	0.80784	1.02261	2064.593	2108.457
0.07863	1.12872	1235.624	1391.437	1.06136	0.29732	1.06136	1525.128	1620.202
0.65288	0.96303	567.8056	548.6274	-1.16015	0.20967	0.86196	478.732	411.384
0.60857	1.05413	799.0079	843.4731	1.05483	0.35344	1.05483	1979.217	2085.838
0.94809	1.02949	77.26195	78.61641	1.4622	0.47951	1.4622	69.99103	101.4802
0.02337	0.8196	3510.984	2877.827	1.9899	3.15E-11	1.9899	2788.744	5619.899
0.03406	1.18338	473.2076	558.9404	1.19311	0.06001	1.19311	543.2521	646.0761
0.83714	0.98714	888.6275	878.9959	-1.09094	0.2416	0.91664	1002.825	917.2285
1	1	18.5008	21.90155	1	1	1	17.11224	31.81136
0.86485	0.98446	9785.711	9552.863	-1.499	2.91E-22	0.66711	9996.158	6668.457
0.98749	1.01687	43.45508	39.00243	1.5951	0.49482	1.5951	39.54697	63.0262
0.0425	0.8624	787.3466	679.8452	1.62074	4.61E-07	1.62074	816.889	1325.563
0.88052	1.09342	53.42694	58.51215	1.02315	0.97165	1.02315	53.81194	55.18793
0.60119	1.02328	3372.09	3448.774	1.00293	0.96474	1.00293	3875.167	3823.803
0.7258	1.05433	214.0196	224.9609	-1.10496	0.55864	0.90501	229.721	207.8357
0.99968	0.99998	1735.304	1732.026	1.05157	0.37041	1.05157	1814.665	1904.011
0.94706	0.98879	217.5746	216.7643	1.08887	0.69536	1.08887	180.714	195.5935
5.05E-09	0.61367	1353.427	829.0535	1.43702	4.89E-09	1.43702	1145.242	1645.86
0.87947	0.90731	85.38023	84.95258	1.01088	0.98531	1.01088	87.70664	86.27646
0.54093	0.92309	270.6935	250.2953	-1.00276	0.98453	0.99724	247.1116	246.216
0.37783	1.04282	3665.224	3825.701	1.07054	0.13821	1.07054	3888.071	4161.663
0.86058	1.23688	26.17092	30.78061	1.00011	0.99993	1.00011	27.73803	33.84357
0.28046	1.0518	7178.896	7550.755	-1.33231	1.34E-10	0.75058	7511.448	5638.946
0.02294	0.81042	909.2119	732.2127	-1.20565	0.08148	0.82943	734.475	612.0315
0.18407	0.89804	1866.917	1676.302	1.59538	5.83E-07	1.59538	1485.621	2381.516
0.61	1.05987	1617.43	1702.665	-2.5639	4.06E-22	0.39003	1552.787	605.5863
0.96168	0.99587	1826.577	1829.191	1.12549	0.23362	1.12549	1762.82	1966.399
0.22913	1.05787	3874.982	4098.508	1.3132	1.33E-07	1.3132	3432.716	4507.349
8.19E-07	0.70342	1291.484	906.9502	-1.57715	4.09E-14	0.63405	1035.104	656.049
0.77163	1.02446	933.673	961.6105	1.17935	0.0108	1.17935	964.9396	1136.379
0.01658	1.17902	6593.802	7789.23	-1.3591	0.00462	0.73578	7554.119	5490.752
0.43152	1.07214	501.7791	536.1635	1.09242	0.33321	1.09242	507.441	555.7026
0.73456	1.12515	93.7594	104.2482	1.07726	0.86887	1.07726	72.72365	78.83233
0.39958	1.05325	4992.959	5279.485	-1.38077	2.05E-08	0.72424	5066.664	3664.405
0.98284	1.00165	932.3584	936.6787	-1.06592	0.38972	0.93816	828.8013	776.0663
0.75921	0.97316	513.5841	501.5818	-1.15753	0.08231	0.86391	488.8514	422.6041
0.29848	1.13174	815.9634	933.6792	-1.27328	0.0154	0.78538	869.4034	679.5613
0.06376	1.09525	1424.548	1558.758	-1.10849	0.07956	0.90213	1641.691	1479.905
3.81E-09	0.7387	37917.74	28028.72	1.12509	0.00372	1.12509	39016.41	43898.9
0.84225	0.98343	610.0753	602.2266	-1.33857	0.00482	0.74707	950.5443	706.0441
0.44136	0.84557	327.3576	286.1419	-2.12251	0.00462	0.47114	257.1274	123.6606
0.147	1.06677	1645.943	1755.374	-1.21204	0.00029	0.82506	1587.157	1308.779

0.9985	1.00025	284.0868	284.1928	1.07961	0.49934	1.07961	332.8771	358.8497
0.00337	1.22251	11957.51	14366.01	2.04877	0.00028	2.04877	6241.495	13971.47
0.24032	0.93019	8332.041	7762.981	1.29036	0.00002	1.29036	8485.278	10943.65
0.83855	0.88641	74.62675	70.5471	-1.38691	0.60827	0.72103	65.56751	47.22238
0.98047	1.00352	259.4893	259.1255	-1.03728	0.8235	0.96406	250.8625	243.0429
0.02444	0.82586	5800.432	4797.058	1.11659	0.32491	1.11659	6207.211	6882.386
0.55669	0.9658	2840	2758.271	-1.02129	0.67166	0.97915	2523.749	2467.38
0.32239	0.86341	1348.562	1152.512	1.29227	0.04877	1.29227	1171.712	1534.747
0.84274	0.97241	313.4044	302.242	-1.05009	0.57689	0.9523	510.726	485.8822
0.75947	0.73979	47.79478	33.10352	3.09945	0.34933	3.09945	18.5624	58.82484
0.94305	0.89982	23.42678	23.68312	1.33583	0.81286	1.33583	21.68877	40.34018
0.70799	1.0657	308.7291	323.0334	1.28362	0.0823	1.28362	276.4105	355.2065
0.95419	1.04381	35.63519	37.12432	1.09897	0.87818	1.09897	49.39503	54.20215
0.57991	1.34531	58.75468	77.41434	1.00061	0.99912	1.00061	73.96045	73.48967
0.46766	0.94501	1120.311	1061.626	-1.01079	0.9169	0.98933	1263.074	1241.504
0.78238	1.01483	957.3035	970.9473	-1.04568	0.55177	0.95631	866.6388	826.8436
0.33615	1.1182	422.4241	470.4728	1.03425	0.69259	1.03425	457.3009	472.9505
1	1	19.22853	26.06383	1	1	1	17.70638	32.66705
0.24731	0.82459	1933.521	1597.172	-1.3972	5.74E-11	0.71572	1283.332	918.6603
0.69391	1.10373	156.4723	176.3539	1.03808	0.91001	1.03808	167.3144	182.4935
0.59575	1.03208	994.5328	1026.797	1.03316	0.53378	1.03316	2041.02	2105.759
0.31715	0.7689	262.7488	213.1863	-1.85156	0.04734	0.54009	223.723	121.1155
2.66E-06	0.71248	907.932	645.611	-1.29511	0.00228	0.77214	763.5649	587.9872
0.75883	1.02002	877.3264	892.9821	1.14084	0.02587	1.14084	874.3597	996.7236
0.13291	1.11541	1591.976	1780.206	-1.1259	0.01248	0.88817	1846.519	1639.921
0.64958	0.97168	4766.603	4648.866	1.16619	0.00258	1.16619	4329.217	5050.263
0.53537	1.02789	1507.124	1549.35	-1.02311	0.66339	0.97741	1644.849	1606.81
0.85502	1.01234	5863.576	5912.89	-1.22056	0.04484	0.81929	6242.51	5065.504
0.01097	1.1277	9264.496	10439.04	-1.53483	1.66E-11	0.65154	11297.79	7347.794
0.64149	0.64384	38.7604	25.25708	1.15339	0.90359	1.15339	28.36464	37.27973
0.5933	1.07014	368.1549	390.4224	1.04478	0.74109	1.04478	351.8521	369.4484
0.5107	0.87261	186.5054	161.3064	-1.51047	0.12643	0.66204	146.8869	97.13727
0.84868	0.97245	272.4171	265.8404	-1.23748	0.32642	0.80809	218.7922	178.3518
0.74938	1.06515	144.1729	153.7116	1.34557	0.18833	1.34557	136.9313	183.7143
0.75556	0.9803	932.1926	912.8259	-1.85803	3.34E-11	0.53821	897.6676	481.6072
0.97374	1.01243	102.6399	106.0916	1.09068	0.63118	1.09068	180.907	197.4061
0.79696	0.97638	500.2236	490.398	-1.16681	0.16435	0.85703	464.4411	399.6698
0.61114	1.03039	1132.186	1165.566	1.20382	0.00016	1.20382	1099.718	1323.814
0.27014	1.06	868.6727	920.6124	1.27368	0.00073	1.27368	732.4315	931.5708
0.643	0.97872	2019.156	1978.26	-1.00542	0.92865	0.99461	2047.258	2028.155
0.40418	1.03887	2615.913	2714.245	1.04412	0.45335	1.04412	2661.062	2783.554
0.44103	1.05499	510.9466	538.7969	1.08968	0.58656	1.08968	690.123	752.0119
0.89226	1.00567	3300.923	3320.33	-1.03279	0.57256	0.96825	3118.092	3031.296
0.44175	1.0462	991.5034	1036.446	1.14092	0.01706	1.14092	882.249	1006.763
0.41294	0.88722	622.4548	541.4672	1.01215	0.86841	1.01215	789.507	800.3589
0.92622	0.93259	51.87372	47.83717	1.26297	0.85722	1.26297	31.70285	36.89061
0.80827	1.18256	52.38396	62.48153	-1.09615	0.92205	0.91228	37.97863	34.86311
0.09163	1.10594	8236.065	9131.061	1.0007	0.98883	1.0007	7583.375	7591.754
0.00677	0.66523	6288.038	4274.163	1.50138	0.0014	1.50138	2001.294	3011.142
0.73503	1.11061	97.9122	107.8659	1.10181	0.79498	1.10181	94.96523	104.6714
0.35148	1.07548	2699.227	2916.906	1.00587	0.9492	1.00587	2978.097	3004.563
0.96802	0.99731	1387.245	1387.222	-1.56967	1.11E-06	0.63708	1056.128	674.3492

0.107	0.8574	11787	10129.62	1.56748	8.69E-09	1.56748	10851.9	17046.93
0.14022	1.26018	166.6201	210.3218	1.06835	0.78902	1.06835	213.4741	230.8018
0.55014	0.97406	13540.55	13196.6	1.35636	0.00322	1.35636	12155	16442.28
0.52503	1.04367	3005.493	3124.004	1.08049	0.14638	1.08049	3254.125	3520.689
0.09287	1.10301	1214.937	1341.064	-1.16176	0.03208	0.86076	1325.969	1139.834
0.98134	1.01978	36.8716	36.91007	-1.0113	0.9899	0.98883	36.01043	40.77622
0.0552	0.73043	14991.03	10702.34	1.20655	0.1719	1.20655	11999.44	14580.45
0.71061	1.04334	363.4222	378.4273	-1.01034	0.94129	0.98977	356.7518	352.915
0.9954	0.99442	39.18337	39.57224	1.11506	0.91629	1.11506	30.68358	38.26963
0.55966	1.0417	2843.833	2952.778	-1.00574	0.92505	0.99429	2927.013	2916.143
0.00184	0.79754	2588.057	2063.802	-1.67563	1.53E-11	0.59679	2296.246	1366.407
0.03543	1.11026	1006.99	1117.632	1.57268	6.37E-15	1.57268	1109.82	1745.203
0.93828	0.99561	6027.386	6013.474	-1.05455	0.51467	0.94827	6306.688	5962.417
0.75808	0.8476	84.35331	68.42622	-1.30924	0.79614	0.7638	44.90569	40.21576
0.0062	0.68714	1325.06	903.3423	-1.14395	0.16113	0.87417	1116.38	978.9656
0.02321	0.73796	635.6824	463.0618	-1.29887	0.01755	0.7699	500.79	384.062
0.09451	1.1029	3272.174	3619.246	-1.09958	0.20349	0.90944	3686.979	3349.869
0.02218	1.1055	2837.695	3134.923	1.00241	0.96335	1.00241	3208.178	3215.68
0.2402	0.88308	1856.334	1638.374	1.06888	0.51716	1.06888	1656.785	1774.818
0.02216	1.14212	4264.983	4877.863	-1.18134	0.02032	0.8465	5508.262	4649.688
0.02964	1.13375	1675.784	1903.786	-1.14588	0.11871	0.87269	2094.16	1822.199
0.53054	1.13066	194.2518	218.3005	-1.02675	0.77972	0.97395	411.377	401.1268
0.35759	1.09505	756.6859	824.7043	-1.28004	0.05407	0.78122	1014.132	796.645
0.82099	1.02631	974.1462	1012.01	1.00692	0.95223	1.00692	911.6477	913.2046
0.94013	1.00758	296.9193	299.0002	-1.00532	0.97431	0.99471	273.4522	270.3002
0.92559	1.01304	379.5226	380.0182	-1.00028	0.99846	0.99972	329.2476	329.8533
0.81045	0.96781	1115.056	1088.688	-1.40815	0.00032	0.71015	1005.343	711.0825
0.61274	1.03038	4959.115	5112.147	1.01946	0.66117	1.01946	4994.835	5091.359
0.87287	0.84294	27.09392	22.81995	2.55035	0.49867	2.55035	17.04103	44.9921
0.93983	1.02238	134.8347	141.0137	1.31008	0.19206	1.31008	130.8853	171.4667
0.10335	1.1796	3253.664	3854.108	-1.9653	1.26E-12	0.50883	3898.596	1967.656
0.88999	0.93601	103.1778	90.2672	1.21655	0.50493	1.21655	102.563	125.1648
1	1	18.26071	23.62946	1	1	1	19.25936	31.66931
1.26E-06	0.66482	1974.578	1310.623	-1.68134	2.11E-22	0.59476	1441.767	857.2859
0.4933	1.06397	628.3308	665.3699	1.07243	0.33488	1.07243	556.6109	597.249
0.89737	1.01046	979.21	992.7406	-1.09054	0.28435	0.91698	1605.319	1476.573
0.262	0.73475	150.4681	109.3042	1.93517	0.02014	1.93517	104.6033	200.4648
0.52581	0.94662	3105.783	2963.632	-1.35168	9.74E-08	0.73982	2763.47	2046.447
0.00137	1.18021	1900.091	2241.159	-1.1108	0.08667	0.90025	2222.394	1993.989
0.47576	1.03397	2446.968	2527.845	1.09036	0.08269	1.09036	2507.068	2733.677
0.77874	1.05677	171.1884	182.0707	1.11091	0.31373	1.11091	329.6133	366.2123
0.9341	1.02403	148.6868	159.7148	-1.03514	0.84467	0.96605	222.6075	214.132
0.63269	1.13192	126.2227	142.7354	-1.08546	0.77479	0.92127	122.3832	112.5071
0.20939	1.22353	293.7987	353.3876	1.45662	0.01356	1.45662	269.6596	389.674
0.98061	1.00579	192.6651	194.0324	-1.29113	0.37957	0.77452	143.4452	110.5579
0.73039	0.94355	335.2601	312.7709	1.03725	0.77938	1.03725	367.2708	382.0688
0.46218	1.0731	626.2551	668.2045	-1.14477	0.16322	0.87354	580.1668	505.0628
0.95643	1.07047	22.63792	25.22411	-1.06652	0.9337	0.93763	52.77354	48.21544
0.87759	0.98003	211.5845	207.3722	-1.0117	0.96121	0.98844	167.8458	165.6012
0.03992	1.09728	2880.802	3162.434	1.02214	0.69267	1.02214	3403.067	3474.586
0.9849	1.0084	89.51224	89.41045	-1.03915	0.94068	0.96232	108.3541	102.3514
0.95963	1.00788	242.5178	242.7387	1.18804	0.33064	1.18804	222.3799	262.5842

0.13122	0.87875	2127.126	1868.583	1.00222	0.97932	1.00222	2627.571	2626.251
0.25864	1.0598	807.9467	856.3352	1.23954	0.00292	1.23954	854.5376	1057.975
0.5908	1.03175	735.6985	758.5313	-1.0711	0.26875	0.93362	798.2152	744.885
0.10013	0.8088	986.6852	789.8382	1.07246	0.58125	1.07246	764.59	826.2649
0.87213	0.97137	229.9617	225.9804	-1.25939	0.22367	0.79403	200.4364	159.1534
0.65319	0.94465	332.8938	316.4064	-1.07327	0.56813	0.93174	360.9898	335.0812
0.25538	1.06485	887.2188	945.475	1.74014	0.00009	1.74014	804.7828	1383.721
0.91303	0.91077	48.07238	45.82327	1.09341	0.86932	1.09341	62.5514	67.71104
0.15059	0.85928	1067.66	924.3278	-1.08397	0.228	0.92253	841.962	777.3068
1.26E-09	0.67394	6718.296	4521.22	-1.32626	2.35E-06	0.754	7293.375	5515.786
0.28394	0.92729	579.6257	538.1693	-1.12893	0.18601	0.8858	582.975	515.3902
0.50342	0.89514	4913.069	4286.663	-2.43157	1.44E-23	0.41126	3749.641	1544.781
0.03544	1.12998	2221.497	2514.885	-1.09356	0.053	0.91445	2446.899	2237.662
0.92389	0.98907	7712.386	7755.282	-1.23704	0.02649	0.80838	7210.164	5762.143
0.20299	0.85036	916.0545	773.3462	-1.01362	0.85355	0.98656	781.4872	769.8331
0.41593	1.09793	455.5861	496.0966	-1.96289	0.00003	0.50945	439.1169	225.9171
0.51667	0.94015	335.6044	315.2439	-1.19763	0.10882	0.83499	358.7163	299.2144
0.6591	1.07307	261.4438	277.2951	-2.23169	0.01197	0.44809	248.8695	107.658
0.657	0.94529	361.0936	341.4859	-1.08474	0.42439	0.92188	339.78	313.3048
0.82649	0.72989	27.82292	23.04351	1	1	1	21.32664	29.24048
0.84679	1.01303	1021.855	1031.022	1.06341	0.37921	1.06341	973.9318	1034.18
0.00176	0.64675	389.6321	249.736	-1.48758	0.00786	0.67223	307.513	206.2625
0.34328	1.08128	5136.28	5573.759	-1.02118	0.7451	0.97926	5723.381	5614.263
0.64645	1.32254	59.55312	84.18211	-1.01124	0.98347	0.98888	89.04446	87.08024
0.94935	1.03126	90.52586	98.92485	-1.31995	0.59343	0.7576	100.0042	76.90085
0.78789	1.02714	2011.051	2048.027	-1.14246	0.02302	0.8753	2825.462	2472.067
0.56404	1.05033	1075.161	1117.101	1.20611	0.00051	1.20611	1206.792	1456.201
0.61654	0.90568	360.4994	336.6959	-1.723	0.00099	0.58038	361.7476	211.6102
0.00869	1.11311	3987.846	4438.727	-1.13434	0.01179	0.88157	4630.938	4080.878
0.56943	1.04035	1539.973	1600.303	-1.04293	0.39483	0.95884	1275.506	1223.082
0.93697	1.00825	2056.628	2071.168	1.64736	4.05E-16	1.64736	1894.54	3123.698
0.6557	1.06783	383.5628	405.2593	1.31285	0.01604	1.31285	347.6484	454.8705
0.52258	0.85183	2480.401	2041.101	-5.61762	0	0.17801	2099.843	373.3178
0.28458	0.93174	7076.03	6593.018	1.07611	0.4317	1.07611	6431.943	6917.604
0.49719	0.95513	628.9153	601.0724	-1.01082	0.88647	0.9893	724.6642	718.2708
0.00367	0.85343	1765.041	1505.047	-1.17294	0.00447	0.85256	1759.353	1501.162
0.00495	0.76508	1241.479	952.9267	1.49931	0.00087	1.49931	1069.521	1605.853
0.91764	1.07047	64.16158	66.8285	-1.47952	0.56649	0.67589	58.02588	39.19814
0.89509	1.01766	302.9434	310.3565	1.02352	0.8716	1.02352	295.2553	300.6794
0.84683	0.96775	1374.867	1343.266	1.06583	0.37498	1.06583	1541.955	1640.164
0.98583	0.9922	80.1087	81.04002	1.05234	0.93447	1.05234	50.56994	53.17635
0.96569	1.03595	49.02316	51.97282	-1.09571	0.90265	0.91265	56.89993	51.87002
0.40942	1.07235	3545.234	3765.435	-1.15586	0.06656	0.86516	3657.652	3147.051
0.0981	1.0889	5089.306	5536.14	1.06623	0.18093	1.06623	5571.449	5937.317
0.84189	0.98838	15257.07	15067.2	-1.06531	0.14758	0.9387	16448.35	15440.63
0.1779	0.77149	217.4949	166.3085	1.21334	0.39261	1.21334	181.6204	223.3543
0.22865	0.89738	1171.808	1056.727	1.25611	0.00015	1.25611	935.8954	1176.527
0.95796	0.99025	265.7437	267.3816	-1.19213	0.52428	0.83884	171.8874	146.27
0.97242	0.99291	137.2315	136.4318	-1.32028	0.49972	0.75741	101.3911	76.6713
0.99351	0.9964	74.60172	75.23859	-1.35697	0.69344	0.73694	69.75113	48.85891
0.6473	0.91621	162.4068	148.925	1.24329	0.39501	1.24329	151.4264	188.7831
0.6439	1.06723	226.1416	240.5977	-1.10451	0.5809	0.90538	296.5938	267.4291

0.08691	0.68975	290.8981	196.6576	1.08832	0.71022	1.08832	212.5865	232.0518
0.48452	1.05076	1575.613	1655.87	-1.27308	0.0007	0.7855	1575.307	1234.763
0.19013	1.06662	1897.999	2025.196	-1.1393	0.02903	0.87773	1479.205	1300.851
0.79242	0.91015	97.34964	87.64066	1.03832	0.84569	1.03832	206.5735	215.3615
0.77091	0.96642	479.3872	466.3088	-1.07916	0.52952	0.92665	376.2731	347.5438
0.80468	1.03151	261.2361	269.1829	1.17316	0.36626	1.17316	273.9064	319.5193
0.02047	1.10178	2807.164	3093.283	-1.13105	0.06596	0.88414	3278.828	2891.767
0.76414	0.9751	1524.496	1489.707	1.04631	0.42022	1.04631	1359.192	1422.907
0.82029	0.96419	334.8705	319.4061	1.02691	0.84688	1.02691	322.9398	331.9191
0.79789	1.09344	76.6123	83.54146	1.01203	0.97392	1.01203	104.0241	105.1271
0.14026	1.05205	8156.133	8589.037	-1.12741	0.00039	0.88699	8172.692	7250.915
0.45831	0.92857	2792.529	2606.49	1.05649	0.46463	1.05649	2370.364	2510.156
0.05733	1.09871	1000.447	1099.489	1.01512	0.77745	1.01512	1162.575	1180.913
0.37031	1.15774	1243.273	1411.213	-2.65076	3.37E-30	0.37725	2038.338	764.8432
0.61458	1.05422	1384.049	1451.505	-1.32763	0.00007	0.75322	1302.677	979.6337
0.05476	1.10651	992.5294	1097.392	-1.00551	0.93218	0.99452	1083.262	1075.735
0.79817	1.03002	496.738	507.9512	1.19515	0.03925	1.19515	532.8594	638.0267
0.19084	1.06679	1425.588	1521.118	1.31505	0.00062	1.31505	1179.107	1553.447
0.049	0.86064	2895.574	2459.234	-1.17837	0.00877	0.84863	1837.235	1559.219
0.90144	0.95905	84.15106	80.85933	-1.52145	0.69837	0.65727	49.9434	31.36409
0.64731	1.10064	147.4426	163.2053	-1.13499	0.68847	0.88107	131.105	114.884
0.7853	1.23223	47.89622	57.59863	1.24719	0.84618	1.24719	29.44817	46.17824
0.06789	1.15809	3587.705	4021.229	-1.39663	5.04E-10	0.71601	5346.957	3812.292
0.00117	1.15777	7398.646	8569.859	-1.06739	0.37016	0.93686	9130.61	8573.978
0.73865	0.97319	2414.228	2369.101	-1.1233	0.14026	0.89024	2470.637	2195.884
0.73882	0.92639	211.265	200.5347	-1.12118	0.50794	0.89192	274.7286	245.7541
0.29875	1.09541	410.6512	450.293	1.26583	0.01448	1.26583	429.9092	543.0853
0.5406	1.03358	13489.83	13948.92	-1.12587	0.06318	0.8882	10850.69	9542.551
0.01118	1.13633	7410.214	8415.229	-1.06969	0.15083	0.93485	8009.704	7474.556
0.78442	0.97107	507.9613	491.0985	-1.10703	0.21406	0.90332	519.7352	469.9554
0.81586	1.01839	5610.817	5693.143	-1.43984	2.02E-13	0.69452	5986.899	4155.711
0.13635	1.08936	1745.273	1902.792	1.40304	3.49E-12	1.40304	1878.636	2636.623
0.21479	1.26691	146.1556	184.6272	1.55398	0.02522	1.55398	148.6155	230.9897
0.06351	1.12713	800.725	900.7202	1.33728	1.33E-06	1.33728	809.0043	1082.864
0.34764	1.071	588.9607	629.9252	1.118	0.2031	1.118	534.4025	598.7921
0.00088	1.22458	2079.656	2547.027	-2.08763	4.94E-15	0.47901	3193.966	1507.021
0.03866	1.18864	1116.351	1324.689	1.23142	0.00051	1.23142	1245.923	1532.206
0.31815	0.90537	9789.972	8896.467	1.12858	0.14344	1.12858	9327.139	10560.17
0.9431	0.99368	594.2442	592.8132	-1.12046	0.17418	0.89249	578.088	515.2714
0.51824	0.95182	661.2982	627.6835	1.04651	0.58346	1.04651	610.9694	638.4734
0.00075	0.76372	4533.182	3458.792	-1.41273	9.61E-11	0.70785	3963.946	2807.625
0.1869	1.16626	470.2086	544.0072	1.34394	0.00058	1.34394	477.3625	642.8248
0.02293	0.6692	1290.281	850.3463	1.24198	0.21785	1.24198	1254.184	1571.887
0.04728	0.8598	589.1924	505.6908	1.38284	0.00021	1.38284	553.0063	762.8019
0.51577	1.06995	431.6187	461.1432	1.03154	0.53026	1.03154	1312.592	1353.47
0.35121	1.157	198.8924	229.9855	1.17676	0.3179	1.17676	198.8781	234.3162
0.10124	1.17904	332.8843	391.5091	1.3604	0.00083	1.3604	383.4191	521.2018
0.08957	1.14125	2535.235	2894.638	-3.84541	0	0.26005	2758.482	716.845
0.79637	1.03862	385.8716	394.2227	1.03462	0.65888	1.03462	613.2192	635.382
0.89344	0.93002	65.78795	61.32361	-1.18599	0.87563	0.84318	34.16247	32.61314
0.99696	0.99955	940.1365	931.7537	-2.00391	0.00006	0.49902	909.3895	453.808
0.01866	0.78144	5793.774	4506.338	-1.01911	0.82956	0.98125	4426.576	4331.429

0.8562	1.14751	36.89062	42.25701	1.07448	0.94145	1.07448	28.58319	35.63
0.32227	0.9526	8642.501	8246.453	1.01883	0.69046	1.01883	9193.146	9371.374
0.24629	1.06414	1166.46	1238.373	-1.04426	0.24066	0.95762	1318.381	1263.3
0.5649	1.05584	765.9866	803.5878	1.16095	0.05334	1.16095	822.3451	957.5482
0.6327	1.02563	2577.561	2640.62	1.04752	0.27767	1.04752	2702.247	2831.203
0.30557	1.09919	439.5779	482.1451	1.01022	0.91105	1.01022	416.1465	420.7802
0.17904	0.88702	3425.822	3041.519	1.14817	0.06836	1.14817	3132.136	3600.144
0.63772	1.03883	615.5701	638.3525	-1.16116	0.08824	0.86121	764.0226	659.9334
0.88673	1.01677	983.5179	1005.936	-1.16373	0.03433	0.8593	821.989	707.239
0.46398	1.05711	840.1848	885.0967	-1.10711	0.13698	0.90325	830.017	748.7487
0.68896	0.91706	284.6521	262.6521	-1.46969	0.04762	0.68041	199.193	135.4502
0.26342	0.94552	9106.566	8601.304	-1.06554	0.25527	0.93849	8694.742	8143.087
0.40083	0.87648	200.7871	176.1884	-1.44881	0.22569	0.69022	146.7108	101.398
0.86486	1.05457	133.9407	141.1603	-1.17989	0.64376	0.84754	119.1766	99.88957
0.12038	0.89281	819.5695	732.5465	-1.16542	0.13176	0.85806	586.9287	501.5148
0.2458	1.05624	1362.902	1438.915	1.07436	0.28837	1.07436	1341.666	1440.824
0.05819	1.10938	2320.006	2579.388	1.19467	0.02594	1.19467	2457.304	2944.055
0.81296	0.90166	89.95019	79.11647	-1.60778	0.44964	0.62198	81.07069	50.25041
0.15187	1.087	957.8055	1039.884	1.00049	0.99287	1.00049	978.3507	978.9515
0.35032	0.95865	2358.628	2262.072	-1.05647	0.43406	0.94655	2336.146	2203.508
0.57243	0.85346	8934.92	7025.482	-11.38815	0	0.08781	8008.767	703.0601
0.67593	0.9511	407.3466	387.3214	1.00656	0.94896	1.00656	338.2297	340.4492
0.05098	1.14843	5270.95	6075.209	1.20275	0.03269	1.20275	4912.905	5924.831
0.9049	1.01116	519.5829	527.7078	-1.08141	0.43484	0.92471	503.0018	466.517
0.01565	1.25848	417.3032	523.1139	1.14622	0.20874	1.14622	391.9745	450.7748
0.5626	0.90388	357.8782	316.9678	1.85434	1.45E-11	1.85434	300.5147	556.8443
0.00005	1.17938	11371	13411.24	-1.19985	0.00772	0.83344	11849.95	9813.709
0.2403	1.0818	626.7267	676.9462	1.00257	0.96758	1.00257	663.5882	665.1267
0.99863	1.00028	196.7119	195.9368	1.1643	0.43374	1.1643	174.7791	203.6068
0.98256	1.00101	5452.661	5458.021	1.0013	0.98053	1.0013	5428.849	5434.212
0.09573	0.90712	3501.671	3171.765	1.47856	1.39E-15	1.47856	3761.879	5565.272
0.53183	1.03069	1762.679	1814.367	-1.07996	0.12529	0.92596	1714.919	1586.25
0.64301	1.02643	5442.993	5572.886	-1.50511	2.25E-06	0.66441	5487.942	3620.177
0.543	1.03551	7388.398	7695.695	1.04933	0.45273	1.04933	7064.056	7373.914
0.69777	1.0257	1207.253	1234.85	1.09293	0.06817	1.09293	1340.281	1465.104
0.48888	1.0403	2707.117	2827.932	1.03202	0.48831	1.03202	2642.951	2728.581
0.5117	1.03889	4739.761	4895.776	1.43553	5.20E-13	1.43553	6523.367	9384.442
1	1	18.8847	24.50136	1	1	1	16.23125	30.394
4.45E-10	0.7038	3404.377	2395.086	-1.42391	9.01E-07	0.70229	2810.499	1974.332
0.36506	0.87704	16895.1	14948.54	1.7108	1.97E-16	1.7108	12583.47	21557.5
0.00096	0.75411	4261.861	3228.636	-1.10801	0.04859	0.90252	3344.182	3015.069
0.48861	0.93332	1512.585	1425.464	-1.06774	0.20176	0.93656	1267.177	1186.665
0.69759	1.03174	16753.68	17583.16	1.111	0.01906	1.111	20720.77	23016.14
0.48655	1.10217	456.6556	496.3474	1.09255	0.46654	1.09255	359.7719	393.9065
0.52064	1.06229	715.9822	756.0082	1.04481	0.55039	1.04481	821.454	859.7704
0.01045	0.82771	157904.6	130726.9	-1.40022	0.00002	0.71417	177379.9	126267.1
0.53685	1.05239	2209.04	2342.526	-1.27419	0.00001	0.78481	2282.097	1792.22
0.64841	1.03437	2483.34	2570.469	1.09063	0.10843	1.09063	1779.328	1945.521
0.05745	1.08537	3333.203	3617.171	-1.17177	0.00019	0.85341	3890.517	3319.41
0.84729	0.95957	181.1243	171.8072	1.60541	0.00544	1.60541	183.1054	295.3272
0.73507	1.30413	40.56149	51.38688	1.24747	0.64022	1.24747	88.69053	109.9693
0.32201	1.04432	2466.922	2575.84	-1.04484	0.34876	0.95708	2573.622	2464.195

0.8115	0.94536	255.6149	249.3857	-1.27812	0.3463	0.7824	191.122	149.2931
0.00163	0.6551	2922.935	1895.18	-1.37764	3.04E-06	0.72588	2359.075	1709.266
0.05551	1.17107	1559.374	1841.729	-1.28842	0.00551	0.77614	1649.73	1278.77
0.99313	1.00045	1378.375	1380.32	-1.01662	0.75137	0.98366	1339.066	1318.233
0.68269	1.0734	315.163	333.92	1.15035	0.41956	1.15035	276.2755	321.1363
0.71969	1.0423	335.6298	350.8489	-1.20386	0.15577	0.83066	359.2094	297.1478
0.36006	0.91802	593.4675	547.3656	-1.07527	0.33543	0.93	541.8496	503.7018
0.00828	1.4663	10840.39	15769.52	-1.93122	0.00021	0.51781	22090.02	11000.09
0.94112	1.00522	3851.974	3856.856	1.02955	0.57733	1.02955	3382.107	3487.843
0.01741	1.21171	11359.64	13777.08	-1.19282	0.04816	0.83835	13585.66	11285.71
0.45633	0.94394	1017.223	964.0195	-1.18402	0.06341	0.84458	1148.854	966.0353
0.77961	1.02976	857.9332	890.2595	-1.17126	0.00645	0.85378	956.9817	817.5273
0.31346	1.2353	190.5728	232.043	1.22809	0.44649	1.22809	247.8734	335.2426
0.59167	0.9642	1545.74	1486.844	1.02927	0.5668	1.02927	1364.03	1404.836
0.08577	0.91535	3379.376	3095.545	-1.38265	8.79E-06	0.72325	3100.322	2245.357
0.11357	0.83402	2742.374	2290.695	2.4141	3.76E-30	2.4141	2430.664	5899.743
1	1	18.05846	22.33605	1	1	1	17.58718	30.07896
0.19787	1.10545	1096.878	1209.188	-1.03615	0.49634	0.96511	1199.762	1157.34
0.02162	0.81593	4375.346	3597.203	1.15636	0.04536	1.15636	4827.412	5579.923
0.00034	0.79327	1492.854	1182.466	1.53782	7.41E-13	1.53782	1420.037	2187.078
0.23781	1.12322	671.9997	752.7658	1.03998	0.57294	1.03998	1298.778	1355.891
0.19862	0.9103	1231.563	1123.537	1.06745	0.37376	1.06745	933.0026	997.7954
0.769	1.04432	268.613	282.3259	1.01431	0.91911	1.01431	275.5308	279.4519
0.24056	1.05869	1508.248	1598.458	1.02226	0.69823	1.02226	1750.143	1789.609
0.67622	1.05321	3778.974	4000.389	-1.85489	5.20E-14	0.53912	3874.732	2091.251
0.56693	1.05328	415.1497	437.73	-1.08001	0.4824	0.92592	413.9967	383.2333
0.15261	1.08829	1072.869	1167.637	1.29371	8.63E-08	1.29371	1560.558	2019.151
0.96147	1.0063	344.9628	350.1818	-1.23226	0.20844	0.81152	340.7991	276.001
0.33828	1.26801	193.5772	255.8459	1.521	0.00702	1.521	189.42	287.401
1	1	17.21472	22.26516	1	1	1	17.7658	29.12706
0.03678	1.08963	4350.093	4740.609	-1.14677	0.05563	0.87202	5086.456	4442.952
0.00244	1.14175	5193.141	5927.589	-1.20136	0.03423	0.83239	6055.187	5021.488
0.36853	0.87622	1462.013	1300.355	-1.44706	0.00061	0.69106	1136.539	787.2665
0.76065	1.16831	58.01038	67.75955	-1.55493	0.64362	0.64312	49.43543	31.18207
0.238	0.92976	723.4498	672.0077	1.11262	0.39842	1.11262	517.4753	580.6552
0.79548	1.02221	9849.091	10174.2	1.05197	0.55552	1.05197	9573.984	10071.07
0.68074	0.97384	3826.604	3740.443	-1.10621	0.06284	0.90399	3225.136	2911.792
0.61102	0.96534	885.6708	852.2943	-1.07188	0.23732	0.93294	906.0316	845.0438
0.80018	1.02217	556.3513	567.1585	-1.03747	0.64034	0.96389	608.5223	585.6249
0.3869	0.92657	4299.659	3989.716	1.25765	0.05094	1.25765	3712.207	4658.134
0.82493	0.97462	11285.62	11144.73	-1.0839	0.21378	0.92259	8460.494	7794.954
1	1	20.06389	21.75308	1	1	1	18.46242	30.22514
0.58049	0.95678	13253.31	12703.74	1.95331	9.98E-27	1.95331	12599.86	24634.46
0.22716	1.08813	1218.797	1334.865	1.14463	0.02093	1.14463	1611.105	1837.35
0.00418	0.87029	7982.484	6939.642	-1.15842	0.00267	0.86325	8108.376	6998.937
0.55922	0.9343	1411.462	1320.222	-1.10861	0.05323	0.90203	1298.059	1170.828
1	1	17.55457	22.44266	1	1	1	17.26949	29.72838
0.82454	0.97989	2668.273	2642.759	-1.1837	0.018	0.84481	2322.236	1947.624
0.604	0.9735	3895.581	3803.043	1.12116	0.00753	1.12116	4805.625	5389.832
0.62045	0.9446	980.2311	928.8919	-1.48521	0.00006	0.67331	942.4549	636.8037
0.14308	1.24303	241.2863	301.2191	1.2792	0.10414	1.2792	251.6919	320.1607
0.05339	0.89706	2567.593	2305.643	1.6677	3.64E-17	1.6677	2234.034	3725.841

0.0737	1.15387	379.4663	437.5656	1.16737	0.19444	1.16737	363.5603	422.4896
0.11655	1.09563	1194.875	1307.052	-1.02383	0.64429	0.97673	1409.875	1377.124
0.68113	0.89769	121.245	108.6539	1.18764	0.59476	1.18764	107.2113	127.4919
0.16934	0.90938	5489.471	5007.093	1.12383	0.02362	1.12383	4610.166	5177.968
0.18796	0.81166	9123.215	7374.426	1.28636	0.07513	1.28636	8100.358	10444.81
0.49055	1.14665	169.1662	195.1114	1.19542	0.21476	1.19542	294.7001	350.9117
0.74621	1.0156	4826.295	4902.675	-1.3382	8.70E-08	0.74727	4947.247	3692.073
0.12723	1.09126	2875.96	3125.85	1.0901	0.13025	1.0901	2871.209	3136.333
0.00162	1.14888	5348.971	6144.153	-1.00549	0.935	0.99454	6995.437	6926.641
0.81629	1.02681	281.616	288.9957	-1.13578	0.42702	0.88046	256.1911	224.739
0.00657	1.15632	6861.085	7935.74	-1.07244	0.33834	0.93245	6704.292	6213.752
0.03416	0.87849	1676.374	1472.243	2.13206	0	2.13206	1537.525	3278.027
0.9394	1.01317	211.6016	212.9792	1.25333	0.16203	1.25333	189.831	238.186
0.26375	0.90837	2086.645	1892.007	1.07268	0.36329	1.07268	2144.059	2299.887
0.05529	1.10296	1215.172	1338.923	1.09889	0.06741	1.09889	1223.965	1344.292
0.8894	0.9352	60.70278	56.64866	1.28124	0.64332	1.28124	61.9833	80.09816
0.92751	0.86843	25.57803	22.72654	1	1	1	18.10841	31.73088
0.05394	0.82405	426.2131	351.2919	1.6289	0.00018	1.6289	412.6644	667.3298
0.51161	0.95542	4293.755	4115.693	-1.08307	0.25677	0.9233	4327.207	3976.187
0.57798	0.96514	1021.379	988.7062	-1.03292	0.66258	0.96813	960.9677	927.9374
0.28442	0.82985	216.729	179.0259	1.11207	0.55664	1.11207	167.5688	186.3494
0.65502	0.93534	315.4705	291.8287	1.06199	0.64525	1.06199	275.0737	291.7781
0.95536	0.99725	1931.195	1922.964	1.23666	0.00014	1.23666	1913.229	2364.63
0.00929	0.76316	1160.059	881.7573	1.0448	0.50188	1.0448	967.8342	1012.218
0.05067	1.20263	1160.371	1403.939	-1.16706	0.16096	0.85685	1344.318	1143.341
0.3257	1.21197	187.5175	224.5747	1.11859	0.4169	1.11859	234.3494	261.9727
0.97863	1.00419	440.5237	448.4727	-1.07546	0.5512	0.92984	401.861	371.7999
0.88041	0.95867	174.1378	171.813	1.06269	0.84505	1.06269	123.0508	129.4404
0.01605	0.72256	7706.517	5584.435	-1.02723	0.63397	0.9735	5447.304	5316.979
0.01961	0.67212	5769.064	3821.044	-1.03928	0.76948	0.96221	5558.734	5285.474
0.12805	0.8462	639.971	544.0404	-1.11786	0.3248	0.89456	683.7601	607.875
0.99846	1.00012	1347.846	1352.196	-1.01722	0.7128	0.98307	1306.268	1284.155
0.40696	1.1435	226.2844	256.7206	-1.06145	0.73165	0.94211	236.2026	222.6655
0.11923	1.13065	10440.93	11718.96	-1.38024	2.46E-06	0.72451	13341.11	9528.896
0.78992	1.21053	49.54317	63.50179	-1.22688	0.77957	0.81507	61.26	48.59264
0.2315	1.06818	7176.64	7663.349	-1.07869	0.07989	0.92705	6232.447	5778.085
0.48358	1.14654	202.1467	228.7278	1.07019	0.70539	1.07019	230.0737	246.4983
0.01659	0.82742	7909.13	6522.655	1.12702	0.15554	1.12702	8121.05	9108.084
0.8891	1.03068	144.7782	149.5347	-1.21255	0.56063	0.82471	112.8554	92.71082
0.75957	0.94685	284.973	265.2036	1.01886	0.88804	1.01886	262.2165	266.9752
0.74408	1.15392	78.01567	91.51613	1.25284	0.28157	1.25284	155.4322	195.4047
0.35985	1.05583	775.1864	817.9731	-1.17309	0.07724	0.85245	709.3309	603.2251
1	1	19.11028	22.79762	-1.20353	0.83391	0.83089	46.53294	37.91083
0.06683	1.23597	8239.555	10136.3	-2.8156	1.13E-13	0.35516	11557.11	4004.972
0.05476	1.13884	14557.06	16599.03	-1.19294	0.00105	0.83826	18329.79	15356.34
0.95952	0.99621	669.0057	668.2773	1.19191	0.00233	1.19191	662.0822	789.1488
0.06686	1.24635	475.5393	587.3165	-1.17464	0.05244	0.85132	511.8502	435.5209
0.53617	1.0371	2327.129	2409.66	-1.01825	0.74359	0.98207	2127.265	2088.797
0.98694	1.00308	220.5364	219.4622	-1.07343	0.69555	0.93159	229.7804	215.2744
0.0009	0.80371	4545.567	3656.467	1.08556	0.05029	1.08556	4027.922	4372.455
0.95958	0.99317	1014.041	1015.125	-1.21537	0.01101	0.82279	917.9526	753.8671
0.45353	0.84602	354.9866	312.4719	-1.85832	0.01011	0.53812	234.394	125.1865

0.99811	0.99958	305.3201	297.3738	1.05712	0.52338	1.05712	506.5984	536.5454
0.95282	0.92706	21.31075	24.35898	1.21129	0.85183	1.21129	34.10918	45.69236
0.14275	1.08922	1303.62	1423.055	1.11527	0.04698	1.11527	1491.447	1661.304
0.95326	0.99271	535.4866	536.7492	-1.19733	0.04763	0.83519	497.0306	414.5138
0.98855	1.00097	1328.428	1335.546	1.04778	0.5844	1.04778	1517.492	1586.989
0.4948	1.04994	2104.553	2225.545	-1.12523	0.11423	0.8887	1966.345	1736.778
0.65206	1.06483	270.8717	289.13	-1.01435	0.92639	0.98585	285.8968	280.1062
0.7459	0.94803	207.8434	196.3748	1.05824	0.73823	1.05824	202.6573	214.7389
0.22562	1.15031	281.9297	325.2711	-1.06139	0.43991	0.94216	551.4767	519.4035
0.08027	1.08853	5308.696	5773.125	1.10006	0.0269	1.10006	5964.93	6559.06
0.28283	1.07472	752.3171	810.3839	-1.03216	0.7461	0.96884	809.1079	780.8116
0.95614	0.98477	127.0426	123.631	-1.12718	0.70523	0.88717	124.9573	111.7555
0.31594	0.91159	584.7365	530.779	-1.29252	0.02977	0.77368	548.3752	426.0986
0.40187	1.15821	181.1322	210.1506	1.19258	0.43121	1.19258	163.6404	195.3242
0.03542	1.08957	3589.593	3911.185	-1.01193	0.8159	0.98821	4244.774	4192.371
0.59896	1.03596	676.1165	701.6306	-1.08682	0.46528	0.92011	706.7061	646.2501
0.53629	1.09856	281.5836	308.091	-1.03898	0.77939	0.96248	266.7298	256.8927
0.61401	1.05016	470.9438	492.5276	1.01586	0.84782	1.01586	488.3245	496.3343
0.66757	0.97586	1347.005	1315.767	1.02337	0.77021	1.02337	1388.608	1417.674
0.29083	0.88146	342.8578	300.7881	2.30624	4.91E-18	2.30624	330.6743	760.8629
0.00002	0.65091	6943.313	4539.495	1.09912	0.22079	1.09912	6687.006	7336.612
0.94715	0.99574	3676.762	3640.677	1.00355	0.95365	1.00355	3606.258	3641.758
0.0139	0.71703	1757.625	1234.592	1.08518	0.46392	1.08518	1457.813	1585.017
0.61548	0.86971	139.3961	122.7547	1.25511	0.36251	1.25511	119.6488	149.772
0.76728	0.96567	341.8531	328.5023	-1.12848	0.47631	0.88615	294.5189	261.5902
0.46228	1.06101	1163.273	1237.257	1.48131	3.57E-09	1.48131	1614.186	2392.392
0.13961	1.10646	10826.37	11989.67	-1.2042	0.00035	0.83043	11645.2	9680.074
0.73212	0.94129	212.5524	198.9983	1.7465	0.00002	1.7465	184.2669	321.8804
0.56016	0.89179	7665.299	6702.771	-2.75447	5.48E-31	0.36305	7517.047	2733.264
0.10705	1.16206	463.4772	539.3149	1.0096	0.86814	1.0096	1182.458	1193.941
0.66971	1.18629	76.58827	90.7982	-1.04241	0.93983	0.95932	63.84744	61.25869
0.82987	0.98529	1903.486	1870.592	-1.0759	0.26511	0.92945	1641.438	1528.362
0.05706	0.73389	1250.057	897.4778	1.78539	0.00028	1.78539	1021.026	1863.569
0.70333	0.97557	3129.672	3019.937	-1.06737	0.1888	0.93688	2584.988	2419.113
0.00075	1.1574	4305.013	4982.528	-1.2019	0.00093	0.83202	5404.407	4485.502
0.09056	0.85897	2753.76	2375.623	1.27388	0.00683	1.27388	2540.099	3224.266
0.64579	0.92648	1859.813	1715.386	1.27124	0.09264	1.27124	1619.022	2088.899
0.0598	1.09105	1416.877	1545.864	-1.12027	0.0356	0.89265	3273.65	2924.333
0.00005	0.7412	1097.769	811.9312	-1.44406	0.00036	0.69249	896.8159	623.2134
0.8266	0.84378	44.01263	37.93877	1.68892	0.42006	1.68892	36.265	61.33275
0.20979	1.05826	3755.584	3978.089	-1.09569	0.04767	0.91266	3646.251	3331.298
0.39479	1.16566	166.6193	195.0919	1.04373	0.88017	1.04373	149.5807	154.3606
0.97835	0.99786	772.7824	768.1066	-1.15425	0.05632	0.86636	743.5515	645.0459
0.26847	0.93897	2840.543	2669.735	-1.24846	0.0007	0.80099	2717.005	2178.206
0.46757	1.05519	9690.691	10242.54	-1.11106	0.12918	0.90004	8255.274	7436.63
0.86115	0.99086	4428.643	4396.46	-1.00887	0.87437	0.99121	4573.514	4537.977
0.01306	1.18379	2088.152	2471.449	-1.1739	0.00097	0.85186	2833.07	2410.734
0.86407	1.0253	431.3895	448.7936	-1.51867	0.14238	0.65847	373.5776	245.9907
0.26875	1.04946	2712.235	2848.093	1.06677	0.30159	1.06677	2816.842	3010.305
0.84411	1.09216	82.39384	90.72229	-1.33112	0.48408	0.75125	93.77711	70.54809
0.15646	1.20328	264.3209	319.7847	1.49734	0.10316	1.49734	294.6432	441.1811
0.00153	1.42592	691.027	979.0236	2.62987	3.82E-17	2.62987	687.2603	1830.33

2.98E-06	0.75643	8657.854	6529.969	-1.44206	8.69E-10	0.69345	7733.371	5382.846
0.27559	1.15782	288.0028	330.9661	1.41294	0.00915	1.41294	280.2126	396.3162
0.37697	0.87159	996.9448	858.9697	1.39206	0.01102	1.39206	948.114	1329.084
0.911	1.01281	397.3513	399.8919	-1.14627	0.27519	0.8724	434.6373	377.4352
0.7562	0.9268	193.2	182.478	-1.70757	0.09586	0.58563	193.5957	110.596
0.42929	1.06241	493.5471	523.6721	1.02055	0.83303	1.02055	497.603	509.2717
0.0449	1.13773	1990.015	2269.804	-1.26192	7.73E-06	0.79244	2691.256	2130.432
0.21075	0.93199	1148.313	1069.988	1.37194	0.00106	1.37194	1057.753	1456.277
0.95323	1.07755	18.84275	25.06158	1	1	1	22.46243	31.61839
0.78159	0.97901	867.5919	853.1198	-1.1684	0.10499	0.85587	754.395	642.9871
0.17259	0.91462	651.4291	595.4669	-1.01829	0.84507	0.98204	624.6041	611.3554
0.94583	0.94777	44.48617	42.22353	1.0779	0.88798	1.0779	70.95569	77.88638
0.60476	0.86029	3032.744	2534.261	-6.5108	0	0.15359	2423.959	373.1207
0.01672	1.18392	1621.8	1917.635	2.10381	1.94E-07	2.10381	1405.361	3015.923
0.28363	0.8482	2279.735	1933.394	1.50193	3.56E-11	1.50193	1845.133	2773.904
0.99148	0.99887	965.4161	975.6894	-1.16031	0.16097	0.86184	910.575	780.6393
0.00725	1.16084	1547.778	1797.682	1.04831	0.4941	1.04831	1770.444	1851.098
0.79386	1.05954	155.1891	164.2636	-1.3332	0.5224	0.75007	138.8183	98.62798
0.79637	0.97646	676.9064	664.3883	-1.04259	0.67977	0.95915	648.3913	619.1813
0.05275	0.84339	1952.337	1633.462	-1.2607	7.73E-07	0.79321	1893.248	1501.66
0.74831	1.02209	617.6431	632.2553	1.02092	0.75242	1.02092	643.0188	656.3174
0.67033	0.73361	59.85761	45.81991	-1.28867	0.73856	0.77599	53.48989	41.54844
0.22321	1.08077	7978.245	8484.345	-1.03389	0.60717	0.96722	12069.36	11603.4
0.5192	0.71683	78.18049	55.97549	1.30148	0.75267	1.30148	38.38338	50.95458
0.56993	0.97239	1354.519	1318.18	-1.08723	0.32762	0.91977	1355.932	1233.6
0.036	1.2326	558.3012	691.8727	1.69727	0.00004	1.69727	457.0297	770.9269
0.75747	1.02175	3086.116	3142.388	-1.07973	0.09361	0.92616	3007.264	2787.817
0.00197	0.73122	4110.62	2994.359	1.1121	0.22761	1.1121	3194.665	3562.225
0.75166	1.09239	105.6233	115.0435	1.71172	0.03088	1.71172	102.2935	175.3765
0.01087	0.46315	172.2185	78.7953	-1.72804	0.30014	0.57869	129.7672	70.93319
0.5509	1.0321	1351.653	1394.312	-1.10778	0.14377	0.9027	1234.564	1116.968
0.35789	1.17933	175.1111	206.0407	1.11867	0.54518	1.11867	183.0803	205.4374
0.56347	0.95889	655.1798	627.4188	1.05878	0.44471	1.05878	569.8286	603.0609
0.99147	0.99805	4616.303	4570.877	-1.92228	6.55E-20	0.52022	5148.413	2674.792
0.88478	0.98948	6896.099	6825.538	-1.08482	0.11847	0.92182	6153.801	5671.167
1	1	19.02549	22.76931	1.02331	0.981	1.02331	27.9041	34.68967
0.99634	1.00228	62.9245	62.89661	-1.2048	0.75631	0.83001	63.15678	52.44421
0.29351	1.06746	995.3273	1061.603	-1.09988	0.34538	0.90919	976.4489	893.2372
0.48263	1.07533	552.9617	591.032	1.26191	0.00741	1.26191	486.3018	613.1624
0.66101	0.95831	548.0729	522.4802	-1.01817	0.84542	0.98215	613.4246	600.6447
0.13125	0.92195	2506.637	2309.151	1.10411	0.03634	1.10411	2294.281	2533.421
0.9711	0.99658	2567.346	2514.702	-1.23547	0.00022	0.80941	3663.721	2972.938
0.28936	1.06686	1516.806	1615.141	1.97412	3.97E-26	1.97412	1620.074	3200.216
0.69437	0.97792	1901.778	1865.772	-1.17762	0.01183	0.84917	1921.587	1632.12
0.82039	1.01447	1324.865	1342.515	-1.69202	1.91E-13	0.59101	1165.007	689.6209
1	1	18.15115	24.53121	4.30752	0.15617	4.30752	16.90934	74.7975
0.23911	0.94804	1479.003	1402.216	-1.09184	0.15697	0.91588	1277.232	1166.99
0.16498	1.0757	1151.344	1239.262	1.02666	0.56543	1.02666	1775.062	1822.26
0.1796	1.08043	18826.19	20379.07	-1.19283	0.00043	0.83834	21495.21	18008.23
0.00023	1.30393	514.4158	670.2411	1.70697	3.36E-06	1.70697	378.3867	649.744
0.91216	1.02025	418.9973	437.4146	-1.87267	0.00337	0.534	431.3268	226.4187
0.44269	1.10077	1426.687	1570.452	-1.08955	0.20978	0.91781	4229.52	3852.637

0.46513	1.11613	285.1115	315.1917	1.23762	0.10526	1.23762	253.3859	314.2485
0.66801	0.75841	68.92654	54.91727	-1.34019	0.7409	0.74616	49.0004	36.66691
0.0003	0.61247	565.1965	341.937	-1.2865	0.07033	0.7773	418.9999	328.3371
0.52477	0.93003	1544.085	1428.546	-1.28716	0.01061	0.77691	1357.716	1055.093
0.42532	1.05204	1682.654	1763.13	-1.03488	0.47274	0.96629	1787.07	1725.627
0.0056	1.15739	4652.046	5385.008	-1.19448	0.02344	0.83718	6187.673	5143.178
0.7716	1.04582	321.401	330.7426	-1.18657	0.1023	0.84276	506.0514	424.9661
0.0003	0.72882	1527.501	1111.25	1.01034	0.84901	1.01034	1659.918	1675.645
0.95978	0.98853	156.9006	153.5865	1.3963	0.19699	1.3963	130.0226	180.1722
0.02318	1.29409	823.4149	1058.38	1.73772	2.33E-15	1.73772	895.897	1559.291
0.89766	1.01365	591.9253	604.063	-1.15717	0.2062	0.86417	496.7489	427.9901
0.82474	0.97457	309.4843	302.6354	2.95914	1.14E-43	2.95914	305.4346	903.3906
0.92831	1.01251	419.1981	420.5762	1.0186	0.88203	1.0186	353.3221	361.1509
0.52078	1.06115	682.169	720.5151	1.24846	0.0009	1.24846	617.1509	771.0465
0.47893	1.03595	2034.495	2103.459	1.08783	0.10163	1.08783	1989.323	2167.035
0.51027	1.24789	99.70288	122.0289	1.24578	0.50743	1.24578	98.12512	122.6018
0.09034	1.16127	813.9429	945.4658	-1.09315	0.16961	0.91479	1769.977	1611.302
0.95625	1.00604	297.6292	298.8783	-1.10618	0.41964	0.90401	336.7069	303.5731
0.9006	1.0292	181.9197	184.0562	1.20168	0.36976	1.20168	162.9888	195.0777
0.38068	0.89138	729.5861	657.2146	-1.13379	0.24823	0.882	482.0624	426.8604
0.87401	1.23589	18.31178	25.58364	-1.05911	0.96307	0.94419	25.07238	31.93687
0.45524	1.04346	2142.311	2244.068	1.02018	0.6905	1.02018	2168.848	2208.501
0.75933	0.83016	66.22935	54.26025	1.22621	0.72443	1.22621	59.53566	72.74568
0.08302	1.14235	552.5941	629.6946	1.2205	0.00338	1.2205	550.0889	671.1099
0.25073	1.06779	867.4501	926.4193	1.68547	2.60E-08	1.68547	783.3035	1319.628
0.87971	0.97876	459.0309	454.9559	-1.35385	0.01464	0.73864	419.7872	310.8087
0.3416	1.05336	940.113	991.1158	1.04396	0.44145	1.04396	1123.563	1171.898
0.0281	0.77625	538.7694	414.7163	-1.05958	0.44324	0.94377	569.056	537.0798
0.53823	0.88207	183.4145	160.518	1.6399	0.00719	1.6399	151.3288	248.9085
0.12332	1.12405	680.9447	767.9609	1.73992	6.23E-13	1.73992	690.2312	1198.297
0.01288	1.17189	6367.547	7470.956	-1.6996	8.29E-12	0.58838	6207.714	3641.671
0.22534	0.92402	1231.433	1140.203	-1.12939	0.07164	0.88543	1121.67	990.644
0.19477	1.11211	879.902	974.9749	-1.07924	0.23783	0.92658	1025.055	951.272
0.29134	0.82557	1520.46	1257.777	-1.49157	5.91E-09	0.67044	870.6769	583.4537
0.52733	0.55788	45.50939	25.68754	-1.06648	0.94186	0.93766	43.96804	42.31731
0.90458	1.00523	2439.469	2453.307	-1.07564	0.14822	0.92968	2708.912	2519.321
0.00014	0.71298	5652.34	4049.72	-1.01262	0.85598	0.98754	4498.854	4449.688
0.88101	0.98646	630.6708	625.217	-1.08598	0.49759	0.92083	685.0254	634.8552
0.75821	0.96078	370.4144	359.1863	-1.35384	0.10075	0.73864	310.2549	226.5771
0.34584	0.75216	165.8925	121.1477	-1.43353	0.11199	0.69758	177.3126	123.4098
0.58785	1.04456	882.3936	926.4257	1.00655	0.94614	1.00655	932.519	937.4324
0.53979	1.08644	1452.455	1553.768	-1.51725	2.45E-11	0.65909	3128.328	2053.397
0.82831	1.01522	1581.677	1608.971	-1.09993	0.23043	0.90915	1417.495	1285.088
0.43465	1.08159	334.1986	360.7556	-1.01196	0.90275	0.98818	387.7303	383.0567
0.45875	1.06952	2714.183	2915.813	-1.12447	0.01615	0.88931	2717.784	2418.35
0.73356	1.03608	854.3001	880.4263	1.93163	2.88E-24	1.93163	932.6451	1804.869
0.19087	1.0563	7753.621	8193.402	-1.01863	0.65423	0.98171	8426.978	8273.479
0.23308	0.56601	119.5525	71.76913	-1.87658	0.4563	0.53288	66.9235	35.18449
0.4747	0.95672	1869.779	1782.328	-1.04134	0.45488	0.9603	1791.535	1719.922
0.00078	0.66979	2406.446	1603.99	-1.32497	0.00048	0.75474	2037.803	1542.073
0.0429	0.84533	488.1	412.8025	-1.13297	0.3905	0.88264	469.5799	410.5292
0.2427	1.10429	645.5904	716.1427	1.07834	0.28376	1.07834	627.6644	677.4632

0.33616	1.16401	435.1288	497.439	2.63923	9.72E-11	2.63923	362.5193	970.234
0.42571	1.03741	1593.172	1651.951	1.01497	0.82488	1.01497	1790.416	1816.086
0.08327	0.86654	3385.24	2945.505	-1.15211	0.00785	0.86797	2838.772	2464.825
0.24955	1.05621	1306.858	1379.96	-1.07084	0.17419	0.93385	1344.161	1255.855
0.70042	0.973	945.2095	917.114	-1.09747	0.2312	0.91118	819.5822	745.1422
0.53908	0.95378	1275.167	1216.964	-1.44333	9.77E-09	0.69284	1397.148	967.9666
0.41164	0.96103	3908.108	3751.93	-1.01355	0.84433	0.98663	4053.894	4009.646
0.58455	0.85185	112.5331	95.35622	-1.30334	0.53706	0.76726	98.40088	75.30873
0.91544	1.00607	1278.505	1283.245	-1.19439	0.00101	0.83725	1291.467	1081.074
0.86283	1.02011	6116.112	6323.506	1.721	7.57E-16	1.721	6095.504	10477.28
0.61713	1.03245	2621.843	2725.903	-1.05303	0.45795	0.94964	2647.375	2509.504
0.69688	0.9688	760.6218	734.2721	-1.12156	0.12085	0.89161	802.4867	716.5641
0.10183	1.08849	6463.82	7025.722	-1.02298	0.6374	0.97754	7424.098	7245.721
0.42723	0.92549	394.0062	365.2491	1.58117	0.00025	1.58117	323.8353	509.1044
3.36E-06	0.80055	14195.02	11364.31	1.02029	0.62312	1.02029	13188.84	13457.24
0.70167	1.02784	5594.977	5804.116	-1.04939	0.40363	0.95294	4256.539	4071.628
0.78058	0.9774	1025.56	997.5464	-1.02041	0.76942	0.98	865.6868	847.3859
0.83232	1.0234	1380.499	1428.227	-1.20125	0.04293	0.83247	1524.203	1255.936
0.69919	1.03267	2100.521	2168.192	2.69176	3.88E-24	2.69176	1993.849	5374.065
0.00772	1.26151	8050.534	10152.09	-2.08976	8.98E-07	0.47852	13426.79	6259.519
0.21944	1.15083	361.5333	413.6931	1.18318	0.34927	1.18318	297.7217	347.6757
0.99102	0.999	1059.857	1050.101	1.05878	0.43673	1.05878	1056.349	1119.851
0.76339	1.03508	337.8381	348.9551	-1.04244	0.77293	0.95929	337.9658	322.1831
0.31814	1.05556	4095.813	4309.914	-1.0441	0.35514	0.95776	4113.06	3937.237
0.55298	1.05574	1041.391	1085.782	-1.06006	0.24499	0.94334	1439.908	1358.503
0.63441	0.91303	279.2895	256.6744	-1.42938	0.04316	0.69961	266.4081	185.4863
0.36119	1.05005	2261.369	2377.656	-1.11959	0.14096	0.89318	2391.072	2128.411
0.29362	1.12738	333.7931	374.5384	1.17417	0.41611	1.17417	383.8594	472.9575
0.52792	1.10959	212.8295	234.7252	-1.47461	0.09495	0.67815	192.6776	131.0612
0.30083	1.13206	912.9774	1032.244	3.80833	3.04E-08	3.80833	877.9288	3591.643
0.73786	1.12697	87.43723	98.03841	-1.03446	0.89565	0.96669	127.6279	123.1369
0.12061	1.24058	18327.26	22303.85	-2.08384	9.38E-06	0.47988	31381.82	14329.71
1	1	21.30626	23.76014	-1.0998	0.94776	0.90926	25.01165	29.05574
0.00508	0.8766	6349.126	5566.031	-1.02981	0.71101	0.97106	5969.084	5791.139
0.84346	1.05893	114.3617	121.1818	-1.14141	0.70067	0.87611	126.1517	110.4186
0.82251	0.97882	2315.372	2271.198	1.37995	2.67E-06	1.37995	2106.16	2911.298
0.88811	1.01706	290.7462	294.8908	1.06617	0.65016	1.06617	276.607	294.1494
0.74325	1.01713	3579.55	3647.383	1.18762	0.00266	1.18762	3270.834	3885.449
0.24562	0.91401	6006.58	5491.152	-1.01729	0.82657	0.983	5672.46	5549.2
0.18509	1.09132	551.3123	602.0741	1.27853	0.01027	1.27853	545.4908	695.0214
0.9355	1.00871	26860.85	27196.46	-1.86159	7.89E-14	0.53718	24404.23	13038
0.5545	1.0684	425.4182	451.4869	-1.02515	0.80136	0.97546	409.15	398.7455
0.02956	1.23746	12647.57	15373.85	-1.99376	2.25E-12	0.50157	23717.33	11683.78
0.97657	0.99768	3005.267	3018.727	-1.03328	0.5975	0.96779	2936.978	2848.144
0.81046	0.98064	807.553	790.8959	1.09559	0.1553	1.09559	1078.303	1180.93
0.85182	1.04945	113.6992	119.28	1.06379	0.88897	1.06379	89.34042	95.38611
0.85898	1.01859	931.6879	945.1364	-1.05422	0.56594	0.94856	919.5706	875.9333
0.37172	1.05789	1893.181	2000.894	-1.00519	0.93342	0.99483	2034.974	2031.155
0.0558	1.28257	1050.182	1332.096	1.201	0.07357	1.201	1218.536	1469.636
0.7868	0.9689	326.4999	317.6912	1.01053	0.94801	1.01053	273.4592	278.0554
0.01614	0.77162	2888.206	2217.724	-1.37664	0.00503	0.72641	2833.523	2029.544
0.80726	0.98486	1545.672	1518.854	-1.00655	0.89992	0.9935	1531.1	1519.874

0.49166	1.08628	1870.534	2031.922	-1.077	0.12054	0.9285	2673.377	2485.655
0.04951	1.12241	2949.736	3281.72	-1.09195	0.0396	0.91579	4659.684	4267.335
0.42033	1.04246	837.3069	872.7936	-1.08684	0.2366	0.9201	949.1533	871.8414
0.35485	0.94214	1840.068	1738.332	-1.10306	0.13782	0.90657	1916.255	1732.777
0.30388	1.06056	2381.573	2518.725	1.13835	0.01649	1.13835	2314.311	2629.037
1	1	19.84699	24.41521	1	1	1	21.37117	35.32429
0.55571	1.03853	2941.831	3058.692	1.58516	2.65E-09	1.58516	3348.007	5316.353
0.68244	0.8769	124.1458	108.4665	-1.07625	0.82348	0.92915	122.0748	112.4116
0.51008	1.09957	413.2136	453.3116	-1.18702	0.02818	0.84244	648.3113	545.8295
0.00213	1.26712	570.8969	722.4638	1.4664	0.01788	1.4664	495.7822	720.5785
0.15366	0.62213	160.34	96.85991	1.08932	0.79111	1.08932	103.1722	112.214
0.0681	0.82394	22867.37	18980.46	1.0844	0.044	1.0844	21247.04	23040.12
0.3605	0.90614	1660.967	1511.909	1.40261	1.51E-11	1.40261	973.1382	1364.893
0.71019	0.97241	553.0672	536.9893	-1.25288	0.04836	0.79816	474.6052	380.5388
0.14562	1.07357	2880.289	3095.383	-1.07277	0.15036	0.93217	3224.533	3002.789
0.01981	1.17204	859.6786	1007.748	-1.26445	0.00003	0.79086	1549.178	1226.892
0.52351	1.05935	494.743	526.0487	-1.01922	0.84896	0.98114	439.0424	430.7642
0.73172	0.98231	2311.354	2275.064	-1.08385	0.22212	0.92264	2404.071	2217.081
0.48576	1.04931	873.0071	918.8588	-1.05607	0.51861	0.9469	988.2404	933.5553
0.82303	1.33124	22.2658	28.6494	1.24083	0.87154	1.24083	28.23984	37.48492
0.37444	1.15353	241.875	276.082	1.50598	0.00143	1.50598	240.628	361.708
0.34099	1.10957	344.9052	382.9287	-1.02409	0.76451	0.97648	706.9978	691.1882
0.54385	1.06996	304.7867	325.9963	-1.09664	0.53615	0.91188	271.8555	247.1013
0.15738	0.88544	1284.391	1137.058	1.1231	0.1058	1.1231	1118.974	1260.23
0.76009	1.15953	80.40898	92.89131	-1.17064	0.71746	0.85423	91.47417	77.44092
0.43606	1.2278	103.1933	126.7785	1.35156	0.35587	1.35156	98.63187	132.2625
0.9115	1.00762	521.031	524.8347	-1.20839	0.02881	0.82755	556.1937	460.6819
0.82463	1.02056	1220.073	1252.452	1.23958	0.00151	1.23958	1725.438	2134.604
0.24459	1.06192	986.8782	1048.22	-1.0586	0.50117	0.94465	825.1034	777.4648
0.35003	0.92497	10473	9662.617	1.18399	0.03919	1.18399	8281.402	9820.093
0.93015	1.01507	250.2097	254.0453	-1.14125	0.18341	0.87623	479.1199	420.2977
0.68841	1.05823	193.2126	204.3502	-1.18341	0.53049	0.84502	180.948	155.4419
0.16593	1.08739	584.7231	635.9659	1.08499	0.31899	1.08499	647.7018	701.2934
0.1751	1.27851	241.7927	303.5376	1.27145	0.12944	1.27145	215.3004	274.1981
0.3991	1.06352	570.142	605.2626	-1.04879	0.57028	0.95348	645.6785	614.4149
0.68865	1.02473	631.9927	647.735	1.23598	0.04499	1.23598	576.6314	709.3497
0.4342	0.94225	2322.419	2192.687	-1.2433	0.001	0.80431	2377.966	1914.084
0.68784	0.88304	160.1643	136.0429	1.19217	0.36341	1.19217	164.7455	196.3152
0.6609	0.78629	70.1772	54.07045	-1.01836	0.97381	0.98197	59.61341	58.67783
1	1	19.09264	24.65204	1	1	1	17.76878	34.27201
0.69973	1.04123	403.017	417.6622	1.00333	0.97371	1.00333	401.2518	403.3312
0.3888	0.93251	507.3717	473.8579	-1.40496	0.04387	0.71176	426.4725	304.9831
0.44945	1.05749	2537.417	2684.253	1.14653	0.00408	1.14653	2695.985	3091.112
0.17738	0.90932	1163.181	1062.491	1.14873	0.10369	1.14873	988.9537	1132.179
0.84192	1.01159	2549.601	2580.079	-1.34146	1.11E-09	0.74546	2451.63	1826.711
0.00373	0.87036	85785.1	74673.18	1.03705	0.71239	1.03705	59120.47	59540.65
0.00032	1.17039	4296.938	5030.013	-1.76429	2.21E-27	0.5668	4624.246	2618.873
0.03682	1.12006	9337.641	10496.28	1.02086	0.74851	1.02086	10092.01	10308.4
0.33395	1.06635	2314.959	2474.104	1.18901	0.02389	1.18901	2258.595	2686.124
0.23181	1.07317	1099.568	1177.475	-1.0676	0.33426	0.93668	1123.272	1050.282
0.83611	1.01113	1093.154	1104.604	1.04905	0.40381	1.04905	1170.369	1228.303
0.08751	0.70388	287.6901	197.6749	-1.68344	0.04872	0.59402	219.6966	130.619

0.17424	1.08917	1094.036	1193.756	-1.06311	0.41021	0.94064	1277.906	1200.395
0.59571	0.93783	14157.28	13373.32	-1.24171	0.00588	0.80534	12816.92	10305.8
0.82686	1.01594	1353.404	1385.191	-1.04767	0.46523	0.9545	1268.779	1208.438
0.95073	0.99511	10033.09	10000.32	-1.03692	0.59675	0.9644	10455.35	10095.92
0.26852	1.1174	471.2578	526.7592	-1.01012	0.87646	0.98998	675.0559	668.0503
0.55864	0.96335	3832.974	3706.753	-1.06946	0.40271	0.93505	3804.172	3528.115
0.91195	0.97347	184.408	182.0363	-1.17418	0.30769	0.85166	262.0559	223.0135
0.75841	0.96299	313.1	301.7979	-1.24504	0.13113	0.80319	280.846	225.6786
0.44665	1.06827	1290.884	1369.76	-1.03825	0.5902	0.96316	1409.527	1361.108
0.05406	0.8546	614.1482	523.5259	-1.43719	0.0001	0.6958	543.746	379.0018
0.46496	1.04805	1281.667	1345.491	1.0616	0.32503	1.0616	1283.748	1361.724
0.00355	1.15007	2111.491	2426.438	-1.23254	0.0012	0.81133	2737.285	2212.423
0.8784	0.9917	2147.392	2138.045	-1.07118	0.3269	0.93355	2109.237	1956.272
0.576	1.05669	312.9871	330.402	-1.19374	0.15359	0.8377	349.6611	292.491
0.97301	0.99609	556.2781	558.9566	-1.40598	0.03112	0.71125	545.4968	382.4266
0.97863	1.03179	26.38887	27.63595	-1.24582	0.85183	0.80268	32.39486	32.50326
0.20294	1.11125	5433.454	6071.41	-1.08429	0.32116	0.92226	9066.186	8322.045
0.97609	1.00254	1275.426	1286.978	-1.00525	0.92526	0.99478	1293.533	1286.672
0.00132	0.79993	10366.04	8305.675	-1.19673	0.00159	0.83561	11894.04	9931.364
0.00186	0.77718	2358.573	1825.192	1.03537	0.6958	1.03537	2311.421	2391.331
0.01381	0.90068	2910.883	2621.95	1.05209	0.36507	1.05209	2594.464	2725.989
0.60077	0.96972	3935.081	3821.145	1.11491	0.0357	1.11491	4050.813	4523.837
0.94578	0.9904	2709.816	2673.495	-2.30535	0	0.43377	2580.799	1119.386
0.64898	1.04653	1953.671	2052.75	1.5954	4.88E-13	1.5954	1798.176	2886.889
1	1	16.94413	24.59416	1	1	1	17.34701	30.83808
0.54509	1.036	937.6982	970.015	1.13738	0.03137	1.13738	841.7071	956.5611
0.79182	1.09833	96.98071	106.7139	1.01145	0.97406	1.01145	122.2551	122.8448
0.52519	1.06157	1079.304	1139.689	-1.0219	0.70981	0.97857	1054.509	1030.854
0.47857	1.04593	1223.703	1274.862	-1.11362	0.0919	0.89797	1319.124	1181.435
0.0442	0.80069	1319.62	1047.058	1.40163	0.00027	1.40163	1051.727	1478.765
0.32014	1.0574	2663.686	2833.366	-1.06386	0.18797	0.93998	3036.623	2852.442
0.00396	1.44605	435.0606	636.7282	-1.37095	0.05015	0.72942	952.0079	684.0348
0.03182	0.91433	6253.986	5717.872	-1.14427	0.04662	0.87392	5776.395	5050.268
0.52999	1.09953	234.0568	256.3972	1.05015	0.52563	1.05015	659.2731	693.3718
0.34626	1.05997	1736.771	1833.949	-1.37704	2.00E-10	0.72619	1903.114	1381.832
0.77467	0.96013	1914.271	1830.132	-1.49453	3.38E-10	0.66911	1495.894	1001.16
6.70E-06	0.79442	1631.268	1296.964	-6.01054	4.45E-13	0.16637	970.116	161.4026
0.07186	1.22609	3457.594	4238.372	-1.28397	0.01132	0.77883	4838.396	3719.527
0.72068	0.8577	118.9265	96.42814	-1.32214	0.51488	0.75635	93.56982	70.79712
0.50876	0.96819	3895.44	3774.497	-1.42334	4.07E-06	0.70257	4014.101	2821.09
0.40464	1.15027	226.1819	257.4634	1.14484	0.3132	1.14484	234.9279	269.2177
0.00114	0.72303	3025.222	2154.177	1.03919	0.63765	1.03919	2466.746	2578.167
0.00035	0.71226	1194.025	848.0217	-1.1193	0.26533	0.89342	901.0946	800.9717
0.83883	1.02323	1150.097	1177.851	-3.28458	1.89E-19	0.30445	1331.207	404.6674
0.98206	0.99852	4931.068	4928.778	-1.0415	0.67768	0.96015	2357.306	2337.77
0.22069	1.05496	3757.294	3966.413	-1.00449	0.93621	0.99553	3947.187	3930.048
0.2388	0.80899	516.4684	424.5773	-1.56089	0.12417	0.64066	287.1182	181.5986
0.83755	1.04011	188.2679	196.5497	-1.02804	0.86318	0.97272	225.0123	218.4141
0.54336	1.27601	94.8928	123.0822	1.00355	0.99306	1.00355	114.4476	116.2685
0.42371	1.0343	39496.13	40853.71	-2.85016	0	0.35086	46285.95	16260.86
0.5236	0.94518	411.5625	389.1848	-1.108	0.41113	0.90253	376.4156	339.5891
0.73526	0.98069	14765.8	14486.41	-1.01994	0.70103	0.98045	13975.4	13693.15

0.89279	1.01675	1604.456	1631.333	-1.00151	0.97848	0.99849	4286.969	4302.237
0.02737	1.11811	2431.412	2723.382	-1.02097	0.6813	0.97947	2739.168	2678.797
0.0928	0.88709	976.2275	864.9283	-1.08647	0.23116	0.92041	762.0006	702.1722
0.78386	1.04387	277.3864	286.1034	1.39358	0.00924	1.39358	251.1874	349.9443
0.95158	1.00359	4518.91	4544.406	-1.09336	0.24857	0.91461	4426.762	4033.293
0.14674	1.11023	923.7282	1021.714	1.01047	0.85974	1.01047	1019.187	1030.683
0.22238	1.11531	922.986	1026.832	-1.16993	0.00641	0.85475	1188.2	1016.501
1	1	18.68105	24.13235	1.31457	0.86434	1.31457	23.57546	31.57511
0.88908	1.08865	46.45588	50.41305	1.01636	0.98332	1.01636	45.68703	46.50726
0.57611	0.85603	124.2235	106.2523	1.16243	0.7269	1.16243	100.9771	118.5796
0.47465	0.96449	9228.438	8894.057	-1.14673	0.03282	0.87205	9882.59	8614.066
0.00001	0.68339	6841.668	4658.228	-1.45274	3.22E-06	0.68836	6938.05	4751.507
0.41954	1.06835	1325.448	1418.474	1.04531	0.64921	1.04531	1314.833	1372.342
0.01687	1.10516	3302.127	3648.534	1.16249	0.00219	1.16249	3581.319	4166.823
0.3553	1.11335	443.8595	490.5698	1.2003	0.1023	1.2003	482.9927	582.6464
0.04328	1.74568	92.04765	159.9026	2.15265	0.00009	2.15265	114.5139	246.1653
0.24681	1.1242	2297.861	2580.224	-2.30051	7.49E-11	0.43469	3700.477	1565.959
0.39154	1.05754	951.8787	1004.144	-1.03329	0.54073	0.96779	981.923	950.6036
0.1605	1.079	3866.621	4151.078	-1.11354	0.09012	0.89803	4932.853	4434.512
0.89842	0.99345	1725.762	1712.188	-1.15063	0.02627	0.86909	1807.246	1566.555
0.00013	1.37414	246453.8	334491.7	-1.43455	0.02418	0.69708	345883.4	224709.4
0.00086	1.22578	1360.61	1668.471	1.1938	0.05338	1.1938	1485.062	1766.871
0.32725	1.08312	595.673	643.3718	1.03711	0.53318	1.03711	1058.629	1097.828
0.05732	1.34013	231.3135	308.9484	1.57222	0.00008	1.57222	240.4893	377.8262
0.45169	0.95557	749.9968	716.046	-1.06107	0.54931	0.94245	648.5646	613.259
0.79549	0.90149	88.57449	80.19383	-1.45778	0.72314	0.68598	50.7021	35.14661
0.90669	1.04986	81.8297	85.168	1.12125	0.79158	1.12125	84.86516	95.65023
0.02494	0.88077	2536.603	2234.241	-1.06531	0.22166	0.93869	2297.12	2155.5
0.09305	0.74963	2695.641	2037.915	-1.54557	1.09E-10	0.64701	1227.55	795.0011
0.77916	1.02481	760.6862	783.843	1.07464	0.28587	1.07464	749.31	804.2992
0.00048	1.19279	4349.595	5184.057	-1.35626	0.00166	0.73732	5521.508	4041.962
0.66817	0.94481	300.8719	285.918	-1.34089	0.41978	0.74578	203.3881	157.8635
0.475	0.9334	1571.152	1473.468	1.09362	0.249	1.09362	1569.237	1714.659
0.87271	0.99318	2690.773	2672.018	1.02435	0.59487	1.02435	2796.758	2865.565
0.78793	1.31428	34.01476	47.45967	1.10134	0.92709	1.10134	27.8416	39.26839
0.00522	0.8019	5637.354	4502.235	1.41695	1.16E-10	1.41695	4844.268	6850.543
0.3092	0.93293	28249.41	26438.79	-1.58189	2.22E-08	0.63215	28168.25	17769.45
0.63978	1.04329	483.6367	506.3285	-1.00226	0.98586	0.99774	568.3469	562.0471
0.60008	0.95276	418.0794	399.0856	1.09449	0.37208	1.09449	387.2717	424.2181
0.00173	0.78569	2938.555	2316.407	2.01569	2.85E-16	2.01569	2608.172	5272.923
0.9733	0.99854	3031.812	3026.483	-1.02445	0.60638	0.97614	2565.403	2503.378
0.07356	1.08425	3630.227	3934.061	1.03071	0.50776	1.03071	4092.924	4215.426
0.81235	0.98899	2517.356	2493.317	-1.04936	0.40947	0.95296	2365.866	2248.296
0.10198	1.12942	6759.485	7639.343	-1.01008	0.85124	0.99002	7842.002	7761.513
0.10758	0.84342	716.6723	600.5421	4.2574	0	4.2574	671.5049	2861.348
7.04E-09	0.74018	1509.594	1117.311	-1.10247	0.13668	0.90705	1223.946	1112.114
0.23425	1.06446	1445.043	1536.147	-1.0661	0.18975	0.938	1651.811	1549.847
0.98637	1.01211	50.46716	51.19805	-1.43192	0.73251	0.69836	45.7303	34.86884
0.98848	1.00078	1296.841	1300.021	-1.02158	0.72231	0.97888	1385.438	1358.363
0.84504	1.0464	17511.05	17738.98	-4.24223	3.99E-24	0.23573	22467.34	5239.828
0.39675	1.06504	690.6658	737.8025	-1.05094	0.57242	0.95153	766.1389	726.5533
0.66138	1.02372	7087.583	7274.059	-1.08884	0.16024	0.91841	6792.461	6220.544

0.30068	0.89421	1191.584	1066.553	1.31902	0.00227	1.31902	1327.602	1749.523
0.02171	1.13436	1496.523	1698.706	1.11991	0.10344	1.11991	1590.625	1782.318
0.87152	0.98156	857.6782	837.6749	1.17389	0.00397	1.17389	756.4813	888.0797
0.58155	1.06213	615.5315	649.5967	1.02331	0.82004	1.02331	776.5621	798.3856
0.14219	0.90074	1806.08	1631.373	-1.10987	0.05432	0.901	1499.373	1351.057
0.31305	1.29235	140.8243	180.4086	1.06158	0.82312	1.06158	131.774	140.1944
0.00012	0.77123	8937.123	6909.915	-1.0537	0.36281	0.94904	8049.828	7635.435
0.01988	0.77664	345.1953	268.6497	1.04455	0.82344	1.04455	262.6973	272.9937
0.57622	1.23367	107.9737	132.4699	1.06659	0.78063	1.06659	153.0684	163.3393
0.62851	1.02949	3416.331	3529.557	-1.12199	0.04919	0.89128	3722.718	3312.317
0.37738	1.04416	1139.316	1189.139	-1.16185	0.01218	0.86069	1270.447	1091.904
0.48515	1.14536	177.2687	201.9158	1.70761	0.01078	1.70761	182.9717	314.8781
0.93132	0.9676	97.82556	94.09383	1.93281	0.00019	1.93281	163.1749	317.1133
0.49631	0.92454	3046.609	2845.02	-1.2335	2.66E-06	0.8107	2685.363	2177.87
0.43799	1.0716	649.735	693.8512	1.09323	0.36473	1.09323	704.7759	767.5267
0.31114	1.06658	1334.066	1423.238	1.11369	0.05706	1.11369	1195.915	1332.307
1.34E-08	1.30259	4992.609	6504.466	-1.16821	0.12926	0.85601	7705.876	6532.276
0.01786	0.74495	11317.86	8403.819	-1.0891	0.4252	0.91819	9910.088	9071.221
0.00788	1.25477	514.7586	644.027	-1.11123	0.14944	0.8999	654.9555	588.8175
0.86716	0.94536	89.68406	84.42021	-1.04865	0.90548	0.95361	107.765	101.7985
0.41069	1.05434	6476.042	6866.79	-1.03786	0.53749	0.96352	6629.46	6384.259
0.60992	0.93141	4680.538	4397.528	1.21624	0.02863	1.21624	5253.574	6379.016
0.59537	0.84997	169.954	150.0098	-1.00715	0.97767	0.9929	162.3598	162.8805
0.49132	0.73722	105.8097	75.4241	1.00236	0.99616	1.00236	74.35931	75.38806
0.96813	1.01612	87.38641	87.27357	-1.01357	0.97812	0.98661	79.18007	79.1131
0.00711	1.13059	6180.703	6993.536	-1.19744	0.03412	0.83511	7090.072	5902.134
0.05566	0.80833	409.5656	329.4838	-1.00602	0.95628	0.99402	331.8926	330.2764
0.49993	1.0459	4309.054	4511.292	-1.60865	1.43E-16	0.62164	3933.739	2444.774
0.93233	1.00942	572.7505	573.7777	-1.09684	0.46998	0.91171	542.6821	498.4108
0.34733	1.08844	1406.845	1519.531	1.09252	0.26142	1.09252	1513.327	1664.12
0.43078	0.95725	10918.13	10501.12	1.88872	4.97E-12	1.88872	10786.09	20417.57
0.90225	1.02988	159.515	166.571	-1.20908	0.57828	0.82707	124.6686	102.0589
0.58357	1.221	103.1464	122.0642	1.68194	0.08173	1.68194	98.59319	164.3809
0.64887	1.02476	1228.955	1258.005	1.1374	0.0168	1.1374	1203.37	1367.512
0.9875	1.01699	32.04584	32.7233	1.09774	0.86982	1.09774	78.44339	84.19127
0.16828	1.09973	1388.147	1530.744	-1.33884	8.36E-08	0.74691	1951.19	1455.897
0.06013	1.11247	1095.502	1220.69	1.16144	0.02646	1.16144	1233.383	1429.006
0.72519	0.94953	1143.738	1093.044	-1.31367	0.0003	0.76122	912.0326	692.9785
0.99941	0.99992	558.6704	556.1852	1.22289	0.00703	1.22289	1161.424	1416.854
0.72074	0.98376	1640.313	1613.044	1.34995	0.00003	1.34995	1534.756	2067.975
0.18331	1.11729	537.0808	601.6122	1.51604	0.01835	1.51604	473.2238	718.0817
0.27494	1.11021	1611.579	1796.298	-1.59594	7.38E-10	0.62659	1650.803	1030.863
0.03326	0.60019	233.1627	139.4182	-1.39093	0.436	0.71894	118.5813	83.73098
0.66578	1.03309	789.0458	813.4041	1.34675	0.00204	1.34675	661.3198	895.0613
0.13558	1.23068	257.3038	316.1733	1.75905	0.00184	1.75905	225.1054	392.2843
0.51961	0.94404	379.1703	358.3574	-1.21272	0.23473	0.82459	341.8809	278.9921
0.00008	0.786	6384.713	5025.269	-1.15196	0.0299	0.86809	5411.817	4683.109
0.66989	1.09695	241.6073	274.7331	1.45848	0.30863	1.45848	228.3489	310.0285
0.75389	0.84585	82.02182	67.34836	-1.31052	0.71164	0.76306	68.84322	53.41277
0.46648	1.0489	1981.086	2070.541	1.04922	0.28837	1.04922	2135.698	2242.007
0.09384	0.88327	6325.295	5598.196	1.14457	0.07543	1.14457	9383.332	10736.7
0.74402	0.88858	119.6585	109.7471	1.24768	0.32865	1.24768	120.2943	150.1227

0.94459	0.99564	5434.775	5399.56	1.17143	0.03506	1.17143	5470.308	6386.299
0.95538	0.98236	131.4052	132.8395	1.06168	0.82934	1.06168	170.9229	177.3838
0.04917	1.13294	717.5576	812.0668	-1.10879	0.19096	0.90189	774.7648	697.2327
0.49568	0.87596	3300.973	2923.502	-1.92695	6.81E-28	0.51895	3009.386	1563.584
0.57816	0.79316	150.2469	128.6939	-1.55498	0.33421	0.6431	113.1124	72.25041
0.92083	1.01044	1118.573	1113.992	-1.29822	0.01512	0.77029	1295.469	999.6542
0.44451	0.71956	84.77666	61.65397	-1.39235	0.70859	0.71821	50.47218	36.72978
0.02323	0.69603	18913.12	12990.86	-1.10552	0.40521	0.90455	15379.61	13877.23
0.31742	0.87672	333.173	290.0791	1.07405	0.58858	1.07405	273.9419	294.895
0.70424	1.04262	722.2	758.5843	-1.2276	0.01777	0.8146	804.7711	653.4856
0.17039	1.11833	1276.104	1428.052	-1.21885	0.00021	0.82045	1404.226	1152.974
0.15782	0.87098	416.1556	361.4739	1.0236	0.79392	1.0236	414.4652	424.3497
0.0204	0.78285	6630.214	5188.263	1.24938	0.00686	1.24938	5603.094	7001.096
0.72057	1.0416	5003.12	5211.268	-1.03669	0.53722	0.96461	4930.617	4799.867
0.48686	0.89195	787.6701	690.6807	-1.24222	0.22445	0.80501	642.5878	517.2901
0.97262	1.0104	118.3921	117.9469	-1.25193	0.72991	0.79877	73.26765	60.61197
0.6499	1.08173	213.6681	232.6332	1.11878	0.58815	1.11878	188.7923	209.5684
0.37172	1.06116	2310.724	2460.51	-1.0007	0.98813	0.99931	2250	2249.032
0.79067	1.03316	1623.285	1677.117	-1.00534	0.91169	0.99469	4308.84	4286.787
0.00727	1.15087	75108.32	86322.12	-1.8135	4.27E-25	0.55142	94071.96	51944.21
0.27705	1.08056	3020.152	3263.955	1.13181	0.071	1.13181	3140.826	3580.771
0.98583	0.99829	1260.578	1256.156	1.27881	0.00016	1.27881	1272.23	1629.579
0.86362	1.21361	26.4945	32.60459	1	1	1	19.63532	30.97774
0.35371	1.04407	2368.2	2470.255	1.01211	0.8297	1.01211	2572.015	2601.911
0.77369	1.02249	920.3407	938.3699	-1.18318	0.00783	0.84518	826.7311	699.1033
0.00122	1.21233	681.2089	825.6021	1.06618	0.26225	1.06618	751.8602	801.5254
0.52228	1.04247	5692.343	5948.437	1.9954	3.43E-23	1.9954	5382.577	10731.32
0.77022	1.01403	3345.79	3394.908	1.06895	0.32946	1.06895	3153.835	3373.107
0.85744	1.00822	6011.8	6055.276	-1.11848	0.0342	0.89407	6286.629	5610.502
0.00001	1.26798	4423.853	5623.721	-1.03113	0.63621	0.96981	4781.343	4651.689
0.52244	1.0883	266.2361	289.6468	-1.11389	0.53627	0.89775	269.3776	239.9461
0.85442	1.01632	1249.353	1278.615	-1.05197	0.60236	0.95059	1403.133	1328.075
0.55679	1.09668	191.6359	210.7224	1.26218	0.32046	1.26218	141.555	179.6267
0.35612	0.91862	7744.772	7159.203	1.06891	0.39236	1.06891	9744.429	10465.57
0.27656	0.86571	474.541	413.0546	-1.38109	0.11036	0.72407	342.1307	245.4856
0.0598	0.91328	1418.224	1295.253	1.00127	0.98948	1.00127	1146.925	1143.228
0.47852	0.94679	733.7524	696.9005	-1.01966	0.75138	0.98072	697.7899	684.2948
0.00062	0.59673	2118.845	1239.027	-1.56735	0.00003	0.63802	1497.198	955.9133
0.83878	1.05697	151.5858	158.5848	1.02025	0.94193	1.02025	155.3653	157.7401
0.09003	0.83823	1186.898	994.8083	1.21239	0.06868	1.21239	1111.601	1352.685
0.17564	0.91435	1514.993	1386.79	-1.12644	0.04499	0.88776	1604.498	1422.102
0.0001	0.57401	1740.138	983.2474	-1.215	0.10689	0.82305	1368.309	1123.657
3.21E-10	1.58585	7558.67	12032.24	1.98844	1.77E-35	1.98844	8443.795	16779.73
0.04453	1.09787	5743.353	6312.323	1.03793	0.48344	1.03793	5770.377	5997.917
0.30461	0.91189	12825.84	11726.66	1.2438	3.57E-06	1.2438	12768.76	15881.29
0.95912	0.99602	896.3412	896.712	1.01963	0.82515	1.01963	959.6785	976.4491
0.95786	1.01129	134.3189	135.7158	1.35812	0.28221	1.35812	126.1228	169.1976
0.79498	0.97896	1790.395	1743.907	-1.03796	0.58738	0.96343	1857.716	1799.271
0.38233	1.04358	2663.999	2776.584	1.0192	0.6498	1.0192	6463.264	6590.088
0.00036	1.28684	724.671	934.1577	-1.71379	0.00331	0.5835	738.3681	430.8389
0.00098	1.18609	1482.334	1758.842	1.9934	1.05E-13	1.9934	1385.991	2771.834
0.80858	1.04091	263.0526	276.5675	-1.14869	0.47708	0.87056	289.0867	252.0095

0.07683	0.82047	5330.925	4405.973	1.74783	7.32E-34	1.74783	4170.079	7291.52
0.87231	1.02212	1977.896	1996.261	-2.82099	8.62E-13	0.35449	2745.222	940.6629
0.01	0.89841	2592.126	2328.829	-1.12651	0.04797	0.88769	2442.864	2160.504
0.00294	0.42104	454.0695	191.1822	-4.26657	0.00003	0.23438	330.759	80.20103
0.21812	0.88308	2754.087	2465.138	-1.17426	0.02541	0.8516	2178.828	1857.625
0.01653	0.72804	1048.8	757.7735	-1.10838	0.39596	0.90222	852.3886	773.1764
0.7403	1.01563	5763.569	5853.733	-1.31265	7.01E-06	0.76182	5778.414	4412.715
0.03631	1.18486	4639.075	5492.354	1.13662	0.00422	1.13662	5090.66	5783.161
0.69337	0.93987	8975.471	8379.734	1.05163	0.21288	1.05163	8384.788	8817.804
0.60584	1.06091	4372.027	4638.307	-1.04253	0.45838	0.95921	8339.643	7984.364
0.84947	0.78424	29.11422	24.16765	1	1	1	17.04067	30.82227
0.95669	1.01296	118.848	120.2033	-1.01507	0.96031	0.98515	107.1268	105.4977
0.6466	1.05737	4702.085	5005.693	-1.11395	0.11153	0.89771	7774.347	6980.971
0.001	0.72084	53168.6	38319.34	1.12241	0.09006	1.12241	50798.29	56970.95
0.55824	1.17199	211.2267	231.049	1.00662	0.98015	1.00662	166.801	170.4792
0.63029	1.0554	469.576	499.3636	1.00401	0.96466	1.00401	483.6677	485.5058
0.32339	1.09584	491.1423	540.5528	-1.14491	0.15112	0.87343	572.7737	498.8798
0.00728	0.88395	30096.71	26571.71	1.15078	0.02742	1.15078	38634.31	44560.56
0.69967	0.96177	867.5931	840.4268	-1.1369	0.14858	0.87959	890.7795	780.9381
0.52841	0.81635	154.2997	121.6369	1.41811	0.28052	1.41811	137.5605	199.3412
0.90442	1.01852	320.0435	328.5275	-1.02449	0.83944	0.9761	324.0165	316.2727
0.25807	1.09567	1058.969	1160.866	1.74621	8.27E-15	1.74621	947.5731	1654.38
0.00332	1.14043	17627.11	20106.13	-1.15609	0.04459	0.86499	20758.64	17861.59
0.38037	1.06212	1305.167	1393.86	-1.06459	0.30268	0.93932	1389.887	1304.464
0.89283	1.01463	2161.799	2199.132	2.06536	0	2.06536	1696.844	3504.705
0.65291	1.021	3128.74	3200.861	-1.10783	0.03675	0.90267	3075.486	2780.227
0.09058	1.12683	2045.94	2333.099	-1.17281	0.00278	0.85265	3611.647	3083.823
0.70894	1.02511	670.5766	688.4185	-1.025	0.79957	0.97561	687.796	668.3372
0.80127	0.86673	68.44617	57.70881	1.17285	0.78297	1.17285	68.55103	83.01826
0.6472	0.97104	4191.366	4076.429	1.08633	0.07075	1.08633	3900.688	4236.569
0.0187	0.87899	2224.02	1951.431	-1.01494	0.78276	0.98528	2203.245	2171.897
0.01118	0.49315	4634.634	2050.466	1.44011	0.31357	1.44011	2154.768	3738.385
0.98748	0.99931	1763.973	1763.187	-1.03642	0.57248	0.96486	1834.45	1767.474
0.5002	1.12761	231.9551	258.657	-1.03794	0.76183	0.96345	275.1423	265.2482
0.08407	1.09266	4470.415	4899.378	1.04554	0.38904	1.04554	4433.899	4626.793
0.39109	1.05139	2320.514	2450.159	1.30445	7.79E-06	1.30445	2852.726	3718.951
0.76642	0.95617	425.5032	414.168	-1.33408	0.00216	0.74958	471.0304	353.1452
0.43354	0.93805	2147.267	2015.503	-1.02908	0.55128	0.97174	1817.329	1766.279
0.32431	0.87246	9657.393	8410.789	1.29148	0.03782	1.29148	8482.446	11086.39
0.6375	1.21669	89.56337	105.3944	1.78286	0.0152	1.78286	104.7952	186.808
0.37893	1.05291	2138.659	2259.394	1.03544	0.57236	1.03544	2228.817	2313.465
0.0913	1.32381	12191.21	15449.81	-2.32435	3.35E-12	0.43023	21909.41	9179.055
0.96476	1.01691	88.7673	91.13901	-1.15931	0.74363	0.86258	87.13353	75.24492
0.92073	0.96912	135.5262	130.824	-1.10535	0.75225	0.90469	137.9991	126.6063
0.94699	1.00321	2011.824	2016.022	-1.1185	0.02685	0.89405	2202.612	1965.309
0.00776	0.82321	3442.856	2837.162	1.52843	1.10E-09	1.52843	2882.862	4414.144
0.74514	1.0463	361.4489	376.6552	-1.15626	0.19865	0.86486	819.4973	705.4921
1	1	17.98396	22.81538	1	1	1	19.30902	31.76958
1	1	19.58228	22.33442	1	1	1	17.76555	29.188
0.98095	1.00214	1818.73	1821.592	-1.18477	0.00072	0.84405	2939.869	2485.375
0.42136	1.05015	650.0422	683.0207	-1.17872	0.06928	0.84838	636.9675	541.881
0.29704	0.7949	232.579	180.6944	1.06108	0.85017	1.06108	196.5562	207.7924

0.67073	1.02612	17175.31	17589.32	-1.32974	0.0033	0.75203	21472.52	16011.21
0.71981	0.93707	231.3627	216.3165	-1.12694	0.60914	0.88736	195.4751	172.3562
0.00123	1.17327	1048.064	1229.347	1.08662	0.10125	1.08662	1149.283	1249.303
0.00198	1.13527	4431.402	5030.407	-1.02652	0.61678	0.97417	4760.014	4639.648
0.07064	0.75162	275.7812	208.5356	1.09617	0.63811	1.09617	214.6072	237.2878
0.00837	0.76526	2367.317	1806.188	-1.08811	0.33207	0.91902	1978.048	1821.186
0.71087	1.12105	120.9494	138.0292	1.14415	0.60986	1.14415	173.6214	203.3189
0.51978	1.05652	1478.963	1578.23	-1.06343	0.51317	0.94035	1523.199	1433.966
0.80808	1.07908	139.3824	157.0181	-1.05112	0.84356	0.95137	179.0295	172.0998
0.69781	1.02526	3189.405	3281.483	1.3789	0.00136	1.3789	2985.053	4095.211
0.29291	0.9109	1522.834	1387.157	-1.5084	0.00001	0.66295	1385.298	913.7869
0.94886	0.976	87.57001	84.92162	1.2764	0.63215	1.2764	72.21381	91.99507
0.04869	0.83663	1570.217	1307.503	-1.14799	0.08365	0.87109	1290.209	1124.518
0.15127	1.07014	2652.177	2836.369	1.00902	0.82812	1.00902	2973.602	3000.383
0.18187	1.07527	1856.461	1994.649	1.07658	0.47368	1.07658	1815.784	1943.745
0.02556	0.58863	335.8696	190.203	-1.5242	0.02716	0.65608	247.347	161.5389
0.85725	1.03139	4414.856	4449.021	-2.45586	2.09E-25	0.40719	5863.327	2365.237
0.86059	1.1008	55.14012	60.59585	1.02588	0.9742	1.02588	56.59314	56.75863
0.91694	0.98079	193.3684	189.7918	-1.27526	0.36001	0.78416	164.6913	128.9489
0.74432	1.0422	1130.322	1185.737	-1.16898	0.02548	0.85545	980.34	836.9281
0.25902	0.79938	210.7889	167.1046	-1.02471	0.90631	0.97589	166.0638	161.875
0.96806	0.98947	146.4175	147.3879	1.11086	0.74813	1.11086	119.0399	130.5253
0.78379	1.02044	2076.37	2114.256	-1.12101	0.15038	0.89205	2043.211	1833.828
0.91153	0.99242	6851.396	6797.963	1.02009	0.77734	1.02009	6470.343	6608.859
0.00659	1.17865	601.5336	709.2429	1.0852	0.29947	1.0852	702.9168	761.1315
0.77848	1.03042	435.7856	451.1533	-1.04067	0.65321	0.96092	739.3394	708.2593
0.00269	1.32962	759.5353	1005.901	2.09848	2.41E-11	2.09848	794.7615	1680.182
0.35087	0.7838	166.2949	128.7827	1.00694	0.98042	1.00694	132.1343	133.0605
0.28363	0.77864	308.0775	249.425	-1.40925	0.27657	0.7096	200.3302	140.4108
0.95874	1.01803	216.946	216.6162	1.37192	0.12132	1.37192	214.3106	296.4209
0.98346	0.99744	8085.75	8085.611	-1.0219	0.84085	0.97857	7229.565	7051.389
0.90818	1.05758	95.42999	96.73334	1.14849	0.75145	1.14849	81.80867	94.48648
0.54418	1.05089	1156.79	1229.787	-1.04586	0.56365	0.95615	1424.031	1357.641
1	1	17.66394	23.49549	1.31585	0.80169	1.31585	26.63641	43.29922
0.22894	0.87443	480.136	416.8921	1.24331	0.01408	1.24331	403.4241	501.1694
0.27958	0.81052	362.3787	286.1321	-1.13212	0.42373	0.8833	297.9896	264.7354
0.04847	1.11389	2811.006	3135.913	1.03024	0.64376	1.03024	3019.142	3112.729
0.68788	1.03182	727.9878	753.9949	-1.08561	0.20366	0.92114	1596.149	1472.943
0.80464	1.15198	69.61804	76.02756	-1.03231	0.95614	0.9687	70.74162	68.37743
0.67203	0.81299	81.5284	67.99855	1.02636	0.96311	1.02636	69.43089	71.65201
0.12096	0.81052	4610.294	3695.775	1.08875	0.3997	1.08875	3905.861	4269.555
0.42356	0.81366	208.4869	165.3649	1.59976	0.03789	1.59976	174.9622	283.9378
0.35293	0.90772	490.291	447.5784	2.1404	2.42E-20	2.1404	493.3065	1057.546
0.96757	0.94465	19.74734	22.16967	1.07933	0.9451	1.07933	25.89211	35.46755
0.69392	0.96304	1302.176	1265.879	-1.12829	0.01355	0.8863	1933.676	1714.672
0.04035	0.80282	590.8729	471.0027	-1.01017	0.9292	0.98993	485.0872	482.3645
0.11052	0.88424	3767.008	3331.897	1.18681	0.00269	1.18681	3506.32	4163.137
0.84601	1.00944	3985.71	4032.693	-1.01251	0.80439	0.98765	3721.061	3666.714
0.00494	1.15938	7240.181	8394.846	1.39365	1.70E-14	1.39365	7557.015	10534.18
0.67005	1.06434	229.4609	244.1557	1.06996	0.54086	1.06996	469.3115	504.3126
0.10097	1.12656	571.2377	643.1173	1.03076	0.60591	1.03076	858.4341	884.4421
0.88072	0.98546	327.2648	322.5367	-1.2298	0.09513	0.81314	346.49	281.083

0.98934	0.99917	2118.904	2112.573	-1.17925	0.00051	0.848	2120.039	1798.146
0.60143	1.10287	167.4549	184.6742	1.03725	0.86742	1.03725	188.9821	196.0971
0.55143	1.03075	849.424	875.4781	-1.04116	0.70693	0.96047	621.2788	596.7848
0.48155	1.06924	418.2051	448.4239	1.03263	0.66693	1.03263	670.2739	692.3726
0.10732	1.07466	3429.45	3685.179	-1.19846	0.0063	0.8344	3784.031	3168.272
0.03291	1.15299	821.0693	944.681	-1.11817	0.19581	0.89432	868.2737	773.7084
0.51875	1.02856	1634.697	1681.525	-1.15432	0.0026	0.86631	1701.643	1473.897
0.98617	0.99732	1578.967	1571.331	-1.47793	2.70E-16	0.67662	2083.827	1410.534
0.07533	0.5795	269.839	149.3915	-1.36837	0.14818	0.73079	192.3572	140.9309
0.02118	1.17884	1532.487	1793.434	-1.22434	0.00006	0.81677	3133.214	2554.697
0.17775	0.89347	3783.794	3374.52	-1.03551	0.73594	0.96571	3692.009	3573.828
0.27674	0.9271	1165.164	1083.95	-1.13738	0.04216	0.87921	1303.13	1143.91
0.66428	0.7796	80.58488	63.6384	-1.10453	0.92345	0.90536	49.34014	42.49377
0.80819	1.02139	4129.202	4123.427	-1.0993	0.13187	0.90967	6478.061	5883.344
0.00474	0.79562	1409.916	1127.54	-1.152	0.08085	0.86806	992.2382	864.2128
0.2499	0.92181	590.8898	544.1134	1.01868	0.87421	1.01868	566.9757	575.1404
0.33232	1.07849	962.2048	1033.405	1.0318	0.60229	1.0318	958.8295	989.156
0.86734	0.95126	26897.23	23875.95	-10.4987	0	0.09525	31265.59	2976.733
0.16123	0.83427	619.0952	510.4638	-1.01566	0.8959	0.98458	539.8388	528.5088
0.54065	1.04178	527.7354	549.6417	1.03765	0.71125	1.03765	500.2296	517.2484
0.77141	0.9684	391.1521	380.7699	-1.67129	0.00066	0.59834	341.3303	203.4265
0.11817	0.9157	32181.2	29422.41	-1.04749	0.33156	0.95466	38017.25	36322.8
0.42932	0.84705	443.9708	384.754	-1.01049	0.95124	0.98962	274.1741	273.8348
0.00136	1.1422	2585.691	2953.458	-1.0243	0.6381	0.97628	2987.643	2913.32
0.32143	1.04346	6273.134	6544.242	1.1236	0.01968	1.1236	5269.91	5916.231
0.10178	1.14549	1081.266	1234.899	1.23523	0.00041	1.23523	1101.176	1359.151
0.67388	0.9777	1094.526	1068.939	1.06345	0.3714	1.06345	1072.646	1138.832
0.60801	1.02971	1837.375	1889.407	-1.06742	0.16018	0.93684	1797.887	1684.328
0.00679	0.72394	2640.945	1945.975	1.17737	0.13157	1.17737	1322.235	1566.224
0.91024	1.00492	11096.57	11148.47	-1.12958	0.02971	0.88528	10508.04	9267.238
0.03692	1.37937	657.6401	907.1286	-7.22575	1.90E-10	0.13839	642.7984	84.54643
0.70502	0.97156	425.4671	413.2587	-1.24996	0.08653	0.80003	385.809	308.6763
0.04746	1.15654	2138.529	2432.104	-1.20721	0.00068	0.82835	3252.669	2701.696
0.5598	1.04796	1202.435	1255.653	1.01246	0.80341	1.01246	1192.204	1207.394
0.10863	0.90481	2279.634	2061.831	1.07838	0.21331	1.07838	2122.114	2286.23
0.32899	1.10803	738.1942	812.8209	-1.01751	0.85143	0.98279	856.2529	844.0624
0.11876	1.13574	1040.814	1176.628	1.34748	0.00003	1.34748	1122.042	1513.476
0.82938	1.02477	318.9959	327.3841	-1.01417	0.92678	0.98603	325.3596	318.5375
0.71117	0.94605	428.1188	410.9179	-1.39708	0.02109	0.71578	417.1465	300.7488
0.2178	1.09448	503.1853	550.0765	-1.25955	0.03644	0.79393	522.6717	413.3112
0.812	1.01993	1211.175	1240.346	-1.04198	0.56376	0.95971	998.3605	959.16
0.81626	1.03286	331.9063	339.1872	1.07348	0.52022	1.07348	313.1763	335.929
0.16292	0.86051	1892.988	1631.514	1.08222	0.27011	1.08222	1699.254	1842.593
9.16E-22	0.65927	5850.982	3857.515	1.02587	0.70447	1.02587	4879.1	4995.499
2.08E-07	0.76415	5606.253	4281.978	1.10551	0.04355	1.10551	5223.414	5771.065
0.18542	0.91771	1484.54	1362.256	1.08027	0.15236	1.08027	1385.952	1497.265
0.48585	1.09233	502.8217	543.7799	1.2179	0.22909	1.2179	342.3409	412.5049
1	1	19.08467	24.50799	1	1	1	23.28344	30.54915
0.99956	1.00033	70.32474	66.70274	1.10032	0.79761	1.10032	112.875	127.0196
0.14822	0.82613	1301.997	1075.618	-2.02019	1.58E-09	0.495	979.7614	486.5001
0.78112	1.01664	921.0093	937.7969	1.13904	0.021	1.13904	903.6368	1029.053
0.20138	1.0973	2526.89	2763.795	-1.00562	0.89817	0.99441	2819.366	2804.506

0.87203	1.25247	22.37214	27.88177	-1.01907	0.98976	0.98129	22.3435	30.30492
0.55806	0.95117	2057.651	1982.997	-1.15112	0.05723	0.86872	1925.496	1664.223
0.79511	1.05997	159.9148	167.8015	-1.11858	0.57829	0.89399	177.399	158.5129
0.07153	1.08065	2777.731	3000.604	-1.21434	0.00122	0.82349	3213.955	2648.258
0.43158	0.94207	1437.188	1356.916	-1.09557	0.25224	0.91277	1375.165	1251.551
0.34745	0.80219	219.169	172.5742	-1.01847	0.94503	0.98187	178.626	177.8266
0.30716	1.10238	2216.365	2475.835	-1.15629	0.00461	0.86484	2393.048	2069.567
0.70699	0.88773	107.5694	95.92147	-1.03591	0.89157	0.96534	123.5152	119.1581
0.90368	1.01612	1264.649	1284.084	2.5099	8.07E-20	2.5099	1089.498	2755.564
0.93443	1.12259	17.61642	24.2464	1	1	1	17.31112	30.47282
0.61022	1.06171	1136.37	1215.982	-1.4442	7.14E-08	0.69242	1117.536	772.7236
0.8601	0.98326	625.0669	616.9213	-1.11151	0.38462	0.89968	581.8509	521.8561
0.18381	0.91743	5363.184	4946.575	-1.24558	1.10E-06	0.80284	5841.667	4691.084
0.45062	1.07183	531.0109	567.2902	1.05955	0.44097	1.05955	707.4258	750.8803
0.74183	1.25793	47.41467	60.14065	-1.36099	0.78103	0.73476	39.16228	31.22959
0.10733	0.67534	171.8561	116.6623	-1.02836	0.91837	0.97242	141.9527	137.0402
0.22721	1.17841	833.6598	997.3064	-1.43634	2.53E-07	0.69622	775.3949	540.1722
0.44586	1.03436	3791.203	3921.816	1.0131	0.85791	1.0131	2650.688	2632.437
0.2836	1.05219	2321.314	2445.209	-1.03524	0.51792	0.96596	2627.336	2535.425
0.23693	1.07067	2088.158	2228.699	1.11354	0.01346	1.11354	2177.857	2425.302
0.06455	1.12022	2475.647	2767.259	-1.00784	0.86978	0.99222	2693.128	2675.607
0.42267	0.91253	2482.408	2251.567	1.18161	0.12842	1.18161	2317.265	2758.974
0.67941	0.97874	1278.34	1251.261	-1.2749	0.07252	0.78437	1002.611	794.5988
0.23548	0.93911	986.9907	926.4577	1.13768	0.02931	1.13768	907.4165	1032.713
0.60081	1.02229	4920.775	5032.267	1.79656	2.37E-39	1.79656	5020.529	9018.504
0.86701	0.97873	252.8283	247.8009	-1.13146	0.43311	0.88381	265.565	234.3824
0.8534	1.0296	3900.907	3998.604	-2.12701	9.87E-13	0.47014	1936.04	904.3125
0.57837	1.04868	22251.21	23197.52	-1.88118	1.09E-18	0.53158	18599.84	9876.88
0.93143	0.96954	125.751	127.6383	-1.37217	0.41774	0.72877	111.051	81.59856
0.34067	0.95496	2131.06	2036.676	5.34538	0	5.34538	1872.384	10008.5
1	1	17.96797	23.11568	1	1	1	18.16048	32.43749
0.3845	1.09889	526.0754	582.2355	1.02299	0.70917	1.02299	872.5064	893.2489
0.87138	0.95729	153.4419	146.3727	-1.08701	0.8328	0.91995	105.9275	96.69189
0.03533	1.14507	1372.459	1574.582	-1.17269	0.06733	0.85274	1621.374	1375.414
0.10509	1.163	434.9194	507.7509	-1.01937	0.85877	0.981	481.3773	470.2296
0.84864	1.01828	738.1942	756.0696	-1.20362	0.01374	0.83082	666.5138	554.4
0.90105	0.96434	119.6159	116.5331	-1.5527	0.40962	0.64404	90.40781	58.01871
0.0091	0.76747	563.5348	430.052	1.77486	0.0001	1.77486	413.1727	740.33
0.36117	0.94347	665.9835	627.9979	-1.0902	0.17886	0.91726	716.036	656.4866
0.17338	1.1609	575.5732	663.5846	1.37458	0.00001	1.37458	530.3196	729.6372
0.58465	0.94417	599.0478	568.8074	-1.15021	0.25189	0.86941	455.3586	397.7129
0.80716	1.0165	831.2307	842.8804	-1.01439	0.80821	0.98582	828.8539	816.9027
0.37037	1.0714	2351.95	2516.316	-1.4127	1.15E-14	0.70786	2639.883	1868.292
0.65477	0.94294	456.8883	425.6187	1.56047	9.30E-06	1.56047	399.8008	621.8634
0.88677	0.9555	110.5379	104.7561	1.175	0.55701	1.175	140.7672	167.4377
0.07896	1.11051	870.5516	965.221	1.09132	0.12763	1.09132	1045.134	1140.507
0.29379	1.06284	13473.21	14323.04	-1.22445	0.00015	0.81669	14289.69	11692.2
0.75245	0.94708	288.3848	269.7541	-1.26285	0.11613	0.79186	296.8087	234.9798
0.0003	1.19292	1010.011	1204.957	1.39154	0.00007	1.39154	995.3548	1381.407
0.79699	1.02982	4267.299	4394.564	-1.06161	0.27239	0.94197	8395.91	7889.029
0.25138	1.09958	455.6652	502.0233	1.02687	0.81056	1.02687	387.022	396.3376
0.99741	0.99971	2228.729	2236.423	-1.00533	0.94233	0.99469	2140.379	2131.167

0.60606	0.92226	214.4455	197.482	-1.09705	0.58903	0.91154	219.6734	200.4365
0.93671	0.97347	84.39893	81.96852	1.02581	0.96488	1.02581	87.55342	87.00111
0.81583	1.04058	173.8487	181.3625	1.13128	0.5498	1.13128	169.2122	190.9727
0.9644	1.05265	31.97534	36.09035	1.23204	0.86597	1.23204	32.46975	41.51117
0.99479	0.99925	6490.297	6456.016	1.45633	0.0001	1.45633	5865.804	8604.521
0.89832	0.98042	230.3922	224.698	-1.23082	0.27553	0.81246	186.8604	151.8091
0.45437	1.11522	186.6534	207.9128	1.20995	0.3602	1.20995	242.1509	284.8594
0.07577	1.08502	3089.433	3350.809	1.02837	0.50318	1.02837	3505.275	3604.311
0.79333	0.87045	91.87481	85.08101	-1.30723	0.59182	0.76498	87.09543	66.78986
0.03616	1.15469	2280.209	2630.497	1.23631	3.17E-06	1.23631	2117.149	2617.929
0.641	1.03162	600.8231	619.0588	-1.05906	0.46542	0.94424	617.6323	582.2858
0.23342	0.91011	3789.224	3441.156	-1.05327	0.44608	0.94942	3583.664	3412.855
0.06652	1.08531	16417.54	17823.03	-1.20291	0.00012	0.83132	17334.3	14407.71
0.64092	1.02447	2017.759	2073.454	-1.16563	0.0154	0.8579	1886.684	1613.752
0.76228	0.95337	362.4847	349.7672	-1.46527	0.05138	0.68247	238.4424	163.5398
0.09847	1.12828	8533.119	9567.09	-1.70919	7.51E-09	0.58507	11453.69	6610.568
0.66218	1.14294	121.9202	136.4068	2.02637	0.02915	2.02637	122.4115	240.6003
0.3923	1.06175	1693.611	1789.739	-1.1281	0.06119	0.88645	1981.118	1748.641
0.15204	1.08738	739.5447	804.6633	1.18454	0.01716	1.18454	658.4862	780.8196
0.00616	0.74251	3852.433	2847.362	1.30866	0.02105	1.30866	3293.46	4327.225
0.80668	0.98022	63373.51	62355.62	1.15376	0.01014	1.15376	66061.38	76222.3
0.08937	1.10072	4014.787	4415.188	-1.09157	0.08967	0.91611	4339.976	3968.881
0.04561	1.20069	6888.737	8324.074	-1.40295	7.93E-06	0.71279	9196.785	6490.893
0.0006	0.82158	10091.63	8297.272	-1.23098	0.05621	0.81236	9208.069	7393.294
0.15984	0.82395	398.4105	324.6576	1.23403	0.02107	1.23403	351.1617	433.288
0.24814	0.90129	1313.158	1181.424	-1.01104	0.88875	0.98908	1119.79	1108.992
1.77E-12	0.61231	3553.934	2176.343	-2.02939	4.75E-30	0.49276	3131.386	1541.44
0.00066	1.16603	18688.83	21817.63	1.24407	0.0007	1.24407	19696.03	24546.27
0.63104	1.03074	10450.96	10848.12	-1.03398	0.61716	0.96714	10206.24	9818.551
0.00026	0.57998	1517.823	867.6749	-6.57197	0	0.15216	1219.113	185.414
0.11237	0.87572	2542.72	2232.578	1.11605	0.04305	1.11605	2763.359	3086.943
0.62174	0.92066	232.8704	213.6794	-1.55995	0.07007	0.64104	210.8357	134.7666
0.52391	1.05052	608.8279	641.3545	-1.07114	0.5382	0.93359	722.1909	670.3478
0.29376	0.83372	251.4845	207.6252	1.47513	0.14934	1.47513	176.2855	259.6517
0.96625	1.00453	5445.352	5503.236	1.80239	4.31E-11	1.80239	5050.428	9154.707
0.60755	0.86022	138.5317	121.3508	-1.51748	0.36784	0.65899	106.1001	70.18936
0.34361	1.10177	3174.367	3530.736	-1.14337	0.01105	0.87461	3384.423	2960.808
0.05692	1.10075	1591.248	1751.475	1.04584	0.56009	1.04584	1793.966	1867.781
0.93201	0.97341	109.0542	105.6464	1.07138	0.85655	1.07138	98.49525	105.8124
0.88003	1.02113	218.019	222.5207	1.70111	0.00718	1.70111	141.5031	239.9136
0.52402	1.05189	1369.364	1446.417	-1.29908	3.81E-06	0.76977	1505.399	1159.967
0.28685	0.90075	3323.729	2988.223	1.13144	0.17023	1.13144	3246.738	3658.678
0.11578	1.2171	13140.98	15664.63	-2.85359	5.08E-13	0.35044	20336.59	6958.389
0.00897	1.3608	251.7801	341.5606	1.58817	3.63E-08	1.58817	497.331	790.7959
8.03E-13	0.66751	5545.134	3700.758	-1.20472	0.0035	0.83007	5142.192	4270.722
0.67459	1.136	123.1087	136.8358	1.26206	0.52261	1.26206	114.9919	146.1812
0.73216	1.05815	192.0135	203.9582	1.06142	0.78925	1.06142	223.6175	232.9458
0.06241	0.63587	214.1666	134.9042	1.46516	0.212	1.46516	113.8562	166.2078
0.5568	0.79025	110.4625	90.10794	1.04755	0.94633	1.04755	77.13612	76.22732
0.32888	1.08921	421.652	458.392	-1.00858	0.92549	0.99149	495.9253	492.1951
0.39847	0.95014	1021.318	969.0336	-1.02667	0.72359	0.97402	856.7537	835.6257
0.06833	1.15232	436.549	502.8366	1.04437	0.61398	1.04437	493.9468	515.0433

0.127	1.1473	1698.563	1945.992	-1.3472	0.00029	0.74228	2046.99	1509.866
1	1	18.73283	23.94913	1	1	1	17.87457	32.62143
0.87322	1.02098	5154.39	5388.026	-1.27125	5.99E-06	0.78663	4833.417	3805.422
0.76935	1.05621	244.8747	253.9692	-1.10129	0.28882	0.90803	538.7648	490.3284
0.67555	1.02297	1490.09	1521.85	-1.05614	0.37245	0.94684	1471.997	1392.99
0.80949	1.02393	4799.455	4898.913	1.00038	0.99594	1.00038	4660.122	4657.778
0.71306	0.86754	101.2268	87.60436	-1.79802	0.5468	0.55617	58.38815	32.80463
0.49434	1.09017	225.2363	245.2649	1.34721	0.07552	1.34721	229.1009	307.3551
0.06487	1.14735	926.1693	1059.565	-1.0018	0.98185	0.9982	1103.131	1098.134
0.2644	1.1655	29730.92	33653.25	-2.33626	6.37E-07	0.42804	49299.74	20318.22
0.00001	0.79993	2833.801	2266.558	-1.23715	0.00309	0.80831	2502.87	2022.923
0.00192	0.59417	332.45	195.3032	-1.56141	0.01904	0.64045	234.723	150.4348
0.67565	0.84359	83.07642	70.79921	-1.03443	0.96624	0.96672	57.11085	53.43996
0.00429	0.83272	10248.06	8553.273	1.64566	8.06E-32	1.64566	9433.69	15524.7
0.89237	1.08133	57.42455	62.23512	-1.15169	0.83848	0.86829	70.46866	62.31766
0.74752	1.0597	482.7397	523.7592	1.01651	0.90913	1.01651	489.9763	492.8897
0.13641	0.92256	1325.448	1221.936	2.16684	1.15E-33	2.16684	1198.477	2597.087
0.37433	1.04377	3860.276	4030.557	-1.02939	0.51655	0.97145	3444.365	3346.663
0.54971	0.79764	116.3429	90.94908	1.70815	0.36024	1.70815	58.8707	104.9019
0.97508	1.00257	1509.55	1527.695	-1.11625	0.10463	0.89586	1393.308	1244.244
0.81586	1.15512	58.46294	64.77522	1.56666	0.29309	1.56666	67.64893	106.0334
0.19714	1.11951	1904.24	2155.693	1.05114	0.62474	1.05114	2015.698	2119.688
0.65911	0.95571	2912.49	2788.291	1.21	0.06026	1.21	2470.763	3002.341
0.90255	1.05346	69.14474	72.79241	-1.33876	0.74517	0.74696	46.55075	34.75617
0.36763	0.84902	348.1029	287.2182	2.22973	1.32E-07	2.22973	333.1552	752.5411
0.05875	1.11985	943.392	1058.246	1.06824	0.32136	1.06824	1129.142	1203.604
0.68206	0.89613	211.3255	181.3518	1.12252	0.42448	1.12252	249.6933	280.0687
0.09686	1.29999	2377.312	3092.08	-1.70192	0.00014	0.58757	4512.313	2570.544
0.87009	1.02412	326.2801	331.2249	-1.13668	0.39576	0.87976	311.6495	273.5376
0.22913	1.09619	2757.817	3006.677	1.06611	0.26444	1.06611	2892.373	3079.505
0.94112	1.00434	767.6548	770.9391	1.01141	0.86785	1.01141	673.8244	681.009
0.54343	0.89382	267.1682	242.3579	-1.29039	0.36095	0.77496	216.1097	166.2459
0.17462	0.799	1823.489	1481.764	-1.85032	2.72E-13	0.54045	1355.584	732.8377
0.00065	0.78728	676.2346	532.6142	2.80876	1.79E-33	2.80876	557.681	1566.657
0.0128	0.88613	5625.11	4981.799	1.18521	0.00321	1.18521	5177.81	6126.009
0.24965	1.11599	6074.347	6670.493	-1.3832	0.00003	0.72296	11726.03	8390.574
0.43521	0.86177	958.2585	832.9064	-1.25103	0.13362	0.79934	489.2484	393.2614
0.01681	1.18467	1311.974	1558.672	1.16625	0.01545	1.16625	1590.399	1853.308
0.61554	0.92219	191.6006	176.6908	-1.06356	0.82445	0.94024	156.6489	145.4836
0.04505	0.73172	2924.001	2148.096	1.11015	0.46899	1.11015	3047.551	3337.444
0.54946	1.03539	2411.68	2499.241	-1.24424	0.02567	0.8037	1865.029	1513.934
0.21783	1.05521	46477.95	49093.37	1.20208	0.00084	1.20208	70032.72	84469.24
0.15496	0.87706	676.8645	595.7354	-2.14754	0.00232	0.46565	459.3168	221.6831
0.69723	1.04249	1705.453	1792.995	-1.31791	1.80E-07	0.75878	1840.963	1395.52
0.25548	1.06302	3933.986	4189.68	1.02006	0.67252	1.02006	4689.703	4778.98
6.68E-07	0.78162	14457.43	11309.64	1.005	0.9105	1.005	12958.71	13020.81
0.91966	1.01079	2564.567	2631.645	-1.46999	0.00002	0.68028	2521.273	1694.588
0.48356	1.05289	1314.002	1392.632	-1.16171	0.07629	0.8608	1400.013	1201.485
0.72268	1.40342	30.91761	43.07145	1.33011	0.69037	1.33011	49.95409	67.56255
0.00002	0.63369	1050.74	667.0947	-1.3338	8.62E-12	0.74974	916.2078	686.338
0.80115	1.07755	124.532	136.4583	-1.00819	0.98391	0.99188	113.7175	109.8311
0.0972	0.91143	1318.832	1201.567	1.63286	1.17E-20	1.63286	1209.68	1974.929

0.55386	1.18802	93.8074	111.5128	1.94142	0.04112	1.94142	90.46902	177.4701
0.91946	1.00496	1822.368	1833.604	1.00021	0.99782	1.00021	2033.03	2024.234
0.00271	1.71739	642.1762	1105.478	4.08253	9.09E-24	4.08253	562.0419	2323.515
0.82624	0.96536	505.1335	495.6043	-1.23529	0.07038	0.80952	480.3804	386.8419
0.79374	0.87105	83.45983	76.21127	-1.15408	0.75357	0.86649	110.9837	95.37119
0.85796	0.75931	27.03596	22.58096	1	1	1	17.21142	32.031
0.3867	0.93149	1867.859	1758.569	-1.07577	0.36844	0.92956	1681.781	1553.548
0.00718	1.21141	5409.443	6583.741	-1.41101	0.00014	0.70871	6065.204	4280.3
0.41934	1.0484	687.1196	720.5305	-1.08544	0.3023	0.92129	710.0449	652.9254
0.2715	0.88378	1006.438	891.045	-1.26519	0.00069	0.79039	1314.864	1040.292
0.98484	1.02087	32.82294	33.41282	1.42771	0.79182	1.42771	26.41133	35.76775
0.42126	1.05148	1168.167	1225.277	1.12477	0.02384	1.12477	1359.492	1529.505
0.38451	0.81593	481.8685	405.8119	-2.22471	0.02337	0.4495	289.7665	128.147
0.43907	1.03708	1464.724	1518.215	-1.21236	0.00044	0.82484	1552.145	1279.695
0.99589	1.00129	157.592	155.4312	1.04791	0.84502	1.04791	155.863	163.3825
0.44568	1.22148	112.9407	137.1274	1.08139	0.82745	1.08139	97.30418	105.1336
0.60382	1.27833	51.70511	66.12228	-1.40277	0.70243	0.71287	58.73211	42.88863
0.07019	0.9028	858.4627	774.9226	-1.0898	0.22062	0.9176	727.5911	666.9899
0.18748	1.15411	299.4246	345.6802	1.15052	0.2051	1.15052	298.9462	344.3063
0.78014	0.96999	466.5911	449.8561	1.1951	0.04218	1.1951	749.0997	898.2775
0.47332	0.87094	21063.52	17832.8	-1.63915	1.94E-24	0.61007	18464.25	11265.39
0.95984	1.00525	574.5176	573.7357	1.18486	0.11088	1.18486	558.3177	658.9054
0.87751	1.00678	2230.898	2246.783	-1.2124	0.00439	0.82481	2485.709	2047.645
0.66096	1.02154	7185.892	7336.8	-1.11146	0.12452	0.89972	7490.124	6681.885
0.31155	0.95681	2655.077	2541.026	1.07616	0.15848	1.07616	2520.3	2713.113
0.98022	1.00139	812.6599	813.2898	-1.05275	0.43467	0.94989	856.7185	812.8245
0.50785	0.84254	157.6158	132.8973	-1.895	0.08036	0.5277	140.3192	74.35963
0.23955	0.88125	7877.115	6966.664	1.30514	0.01521	1.30514	8644.702	11281.71
0.54473	1.03094	1350.742	1390.949	-1.08065	0.2832	0.92537	1471.802	1361.991
0.00811	1.24068	685.7131	848.7997	1.38414	4.25E-07	1.38414	681.978	943.3102
0.31637	1.14739	225.3295	258.9197	1.0306	0.85863	1.0306	236.7983	243.5794
0.25669	1.1469	3829.064	4404.349	2.96141	0	2.96141	3449.452	10212.23
0.89468	1.06841	72.73775	77.53625	1.27062	0.53706	1.27062	84.70247	108.561
0.43156	1.06942	646.2846	689.9223	1.02963	0.64273	1.02963	862.2745	887.144
0.07226	1.11811	4045.229	4477.059	-1.15215	0.00117	0.86795	5178.031	4493.749
0.35434	1.12108	422.9352	469.9016	2.25896	8.66E-24	2.25896	380.2424	859.983
1	1	18.42381	23.27317	1	1	1	17.38531	30.49088
0.07456	0.9048	2659.094	2404.373	-1.50138	4.76E-15	0.66605	2394.392	1595.359
0.98241	0.99623	428.8962	436.3481	-1.44124	0.00563	0.69385	449.2	312.7273
0.83513	1.03968	174.1162	180.3107	1.39815	0.1405	1.39815	161.9326	228.572
0.17667	1.46476	141.2635	200.0394	1.83254	0.05043	1.83254	132.7636	238.1858
0.66693	1.40381	40.80254	55.61184	1.81742	0.42629	1.81742	35.29092	65.13625
0.49295	1.15606	146.6252	170.6317	1.22089	0.40919	1.22089	162.2854	198.3524
0.59491	1.0496	1446.75	1509.854	1.08732	0.28565	1.08732	1543.539	1687.566
0.82451	0.98737	1272.956	1259.897	-1.18542	0.01692	0.84358	1215.066	1021.1
0.30176	1.14592	329.8604	376.5571	1.26341	0.01943	1.26341	351.2269	444.0613
0.24879	0.9057	14257.9	12896.63	1.20388	0.01279	1.20388	12480.12	15034.36
0.81071	0.9596	289.5339	283.1718	-1.1668	0.19447	0.85705	347.0729	297.902
0.51534	1.0453	1125.143	1181.484	1.0224	0.78991	1.0224	1011.16	1029.73
0.00304	1.13587	1733.01	1968.53	1.09173	0.30099	1.09173	1645.503	1793.17
0.98445	1.00247	1334.108	1318.616	-1.1021	0.25622	0.90736	2097.318	1891.536
0.54715	0.94181	3214.231	3017.659	1.36825	7.18E-13	1.36825	3325.625	4550.31

0.00463	0.67759	1811.476	1214.973	-1.11865	0.45537	0.89393	1667.923	1474.927
0.49496	1.04995	1008.922	1057.807	1.00301	0.95919	1.00301	922.7456	924.8801
0.08171	1.10782	3117.717	3458.037	1.04192	0.45891	1.04192	3863.996	4017.852
0.95181	0.98832	225.8631	226.5768	-1.10426	0.55516	0.90558	218.381	197.4463
0.55929	0.96418	840.2861	808.9027	-1.08848	0.24675	0.91871	681.8035	625.7259
0.12167	1.1013	2137.821	2339.883	-1.25664	5.72E-07	0.79577	3628.46	2885.919
0.95227	1.00356	5588.544	5599.394	-1.08773	0.03821	0.91934	5127.18	4713.633
0.02738	0.89567	2184.656	1959.705	1.09524	0.20868	1.09524	2835.253	3103.157
0.36551	1.11459	1928.204	2149.154	-1.10146	0.13037	0.90789	4195.389	3849.455
0.30525	1.07122	3649.799	3936.015	1.02587	0.59563	1.02587	4351.748	4461.363
0.49511	1.03669	2596.511	2698.861	-1.05144	0.38459	0.95107	2822.311	2685.625
0.86485	0.86968	45.94865	39.76938	1.23268	0.77597	1.23268	40.30685	49.31068
0.33297	0.80687	253.7707	200.1227	1.05479	0.77871	1.05479	275.1223	290.2994
0.41118	1.04614	6169.122	6467.114	-1.11377	0.09117	0.89785	6580.817	5913.211
0.85338	1.01187	2223.227	2258.438	-1.15683	0.10156	0.86443	2317.29	1983.962
0.33339	0.83713	188.1301	157.0241	-1.0067	0.97286	0.99334	195.4322	194.5807
0.67366	0.94759	461.7129	432.3528	-1.09148	0.18154	0.91619	885.1173	811.2954
0.01068	1.23825	1180.155	1466.421	-2.12802	0.00007	0.46992	1108.633	523.7711
0.67837	0.90533	314.0524	296.8715	-1.37003	0.1553	0.72991	277.8611	201.0949
0.08081	0.81476	1242.136	1004.638	-1.16056	0.17973	0.86165	1113.154	963.5112
0.02923	1.11411	3114.748	3467.936	-1.20146	0.02233	0.83232	3276.92	2709.843
0.73839	0.94369	506.2345	466.3974	1.21803	0.04694	1.21803	416.0566	508.1412
0.13901	0.84153	382.1122	320.061	1.09909	0.40529	1.09909	291.5825	320.2061
0.0338	0.6162	334.5814	199.4457	-1.63506	0.01987	0.6116	265.5169	160.8014
0.67671	1.24394	73.42758	96.07565	-3.16516	0.18273	0.31594	94.40564	30.49484
0.07143	1.1423	12045.25	13750.79	-1.25552	0.01021	0.79648	14113.7	11168.46
0.62913	0.9462	1997.262	1890.438	1.39671	0.00858	1.39671	1779.309	2505.285
0.00285	1.13067	4807.636	5435.183	1.09374	0.04659	1.09374	5259.844	5754.435
0.13368	0.87557	826.5915	720.9106	1.24019	0.00811	1.24019	693.2092	857.6557
0.58627	1.04949	415.652	435.244	-1.02119	0.84988	0.97925	460.5031	449.2094
0.10995	1.10689	984.5355	1088.586	1.05077	0.55511	1.05077	1050.417	1107.149
0.20878	1.0774	1433.428	1545.713	1.52258	0.00003	1.52258	1454.249	2215.049
0.48376	0.94414	3846.621	3655.181	-1.08191	0.24452	0.92429	3895.613	3586.851
2.18E-06	0.68968	3756.141	2594.772	-7.58676	8.61E-22	0.13181	4001.281	503.7364
0.13997	1.07511	2005.999	2159.235	-1.07	0.15344	0.93458	2141.044	2001.421
0.00025	1.19392	1310.485	1563.521	1.08628	0.09309	1.08628	2505.073	2721.464
0.50416	1.05435	1623.618	1712.092	1.12226	0.06965	1.12226	1504.352	1690.967
0.26841	1.08765	1026.834	1121.039	1.00972	0.85505	1.00972	1279.953	1291.625
0.91214	1.01356	283.1864	286.3388	-1.02681	0.86823	0.97389	214.0918	208.4011
0.83908	1.0187	1008.102	1029.881	-1.41464	5.19E-10	0.70689	1080.252	763.3593
0.45748	1.07157	341.3082	365.9112	-1.09377	0.4095	0.91427	327.4603	299.2968
0.03312	1.26984	339.9345	430.0396	1.19922	0.01025	1.19922	774.7813	927.9491
0.14235	0.81723	392.0777	316.8762	1.14965	0.25485	1.14965	368.2123	425.6093
0.61643	1.04386	1157.478	1199.3	1.00405	0.95261	1.00405	1279.058	1285.303
4.13E-08	0.59855	1112.235	663.2788	-1.13514	0.07706	0.88095	892.3866	784.8793
0.3697	1.0605	2497.011	2651.883	-1.12218	0.05081	0.89112	2813.072	2499.861
0.18617	0.83735	1668.297	1386.231	-2.3803	3.49E-27	0.42011	1362.274	573.509
0.87346	1.03863	130.9457	136.0019	-1.03169	0.93407	0.96928	109.6515	106.8462
0.49243	1.03256	1073.072	1107.997	1.01955	0.7738	1.01955	1061.219	1080.617
0.18561	1.07016	5552.208	5930.797	1.0017	0.96699	1.0017	5978.707	5988.558
0.77205	0.9571	443.8567	417.1788	2.0444	2.98E-13	2.0444	445.4873	914.0661
0.75282	0.98069	3714.511	3660.947	-1.16477	0.05484	0.85854	3845.801	3308.205

0.00005	0.70287	1990.792	1396.066	4.59699	0	4.59699	1499.968	6895.901
0.94658	1.0881	29.26081	31.47727	-1.01896	0.98855	0.98139	24.47414	31.40641
0.70464	0.97788	1170.989	1141.983	-1.11768	0.11884	0.89471	1086.491	969.0703
0.37266	1.06745	639.6467	684.456	1.06808	0.47689	1.06808	720.1357	766.4961
0.66169	1.02432	831.9657	852.5481	-1.0745	0.19124	0.93066	858.47	798.8957
0.78984	1.01957	5405.069	5482.271	-1.01287	0.76694	0.98729	5282.357	5214.425
0.32866	1.11888	614.119	682.0504	-1.04647	0.53557	0.95559	566.8033	541.858
0.00001	1.25346	1524.297	1908.418	1.26102	8.46E-07	1.26102	3098.381	3910.342
0.95074	0.9954	3062.715	3076.23	-1.13489	0.09274	0.88114	2827.332	2476.482
0.13925	1.11776	6011.65	6720.514	1.03911	0.38047	1.03911	5940.202	6176.025
0.94562	1.02597	91.85316	92.92271	1.45471	0.37588	1.45471	70.87386	103.0129
0.9028	0.97235	181.4281	173.8417	1.06708	0.75625	1.06708	185.5287	197.7584
0.2125	1.07164	6523.494	6973.123	1.00964	0.84716	1.00964	7072.242	7134.029
0.12249	1.12532	545.3622	612.2897	1.19554	0.02182	1.19554	587.0308	700.8324
0.01789	0.756	2737.814	2075.66	1.28974	0.00018	1.28974	2005.421	2595.796
0.00386	1.24026	631.2438	784.7439	-3.23037	2.34E-07	0.30956	761.9717	235.8773
0.9407	0.91145	25.42751	28.25844	1.62226	0.6198	1.62226	29.89086	48.23477
0.92237	1.00504	5096.417	5109.887	-1.04962	0.30774	0.95272	5844.389	5576.86
0.73706	1.14634	80.50455	94.04819	-1.90355	0.22309	0.52533	93.14281	49.00042
0.84772	1.02691	249.3643	257.109	-1.25166	0.25643	0.79894	236.2382	190.0287
0.29078	0.74929	186.3551	136.1132	1.23651	0.3265	1.23651	133.3843	164.9392
0.52863	1.03391	1029.121	1063.078	1.07438	0.20242	1.07438	1053.943	1132.642
0.92938	1.00645	4117.805	4170.281	-1.14839	0.06915	0.87079	4088.085	3554.776
0.39009	1.06189	583.8085	619.1638	1.27653	0.00257	1.27653	563.9504	721.3038
0.36975	0.80374	5513.511	4189.354	-5.5591	0	0.17989	4571.403	829.2468
0.45079	1.04728	1690.015	1770.429	1.05456	0.2643	1.05456	1502.04	1583.451
0.61785	1.03918	944.7479	976.7626	-1.06482	0.32576	0.93913	915.3006	860.2249
0.92364	1.02907	115.0127	119.8711	1.20407	0.59575	1.20407	85.74125	103.2865
0.00065	0.53259	1825.189	941.4877	-1.09333	0.46126	0.91464	1093.219	1007.255
0.76912	1.12556	92.62686	107.0563	1.31663	0.52644	1.31663	73.69913	96.53551
0.54625	0.90818	294.1661	264.0402	1.02673	0.8305	1.02673	264.2853	271.2808
0.71479	0.91343	213.1438	188.3983	1.29049	0.10971	1.29049	195.1831	251.4469
2.87E-09	0.70593	935.614	660.4757	-1.06894	0.55027	0.93551	733.904	682.5989
0.76228	1.02057	2510.457	2577.035	-1.02135	0.79526	0.9791	2398.605	2349.604
0.38191	0.90126	578.6915	525.9988	-1.21449	0.19059	0.82339	550.8517	453.8191
0.00006	0.75342	2110.452	1588.615	-1.22859	0.0037	0.81394	1713.788	1393.429
0.73877	1.01873	942.1992	960.8939	-1.14477	0.01599	0.87353	1027.452	897.1982
0.56087	1.03732	2289.452	2384.517	1.01137	0.84973	1.01137	2356.773	2385.18
0.72892	1.02963	8110.354	8376.857	-1.46957	1.93E-07	0.68047	9592.627	6504.21
0.86938	0.97942	357.8596	347.7003	-1.06604	0.46484	0.93805	601.7145	563.0478
0.16032	1.09163	1932.364	2101.568	1.23813	0.00892	1.23813	2228.24	2761.166
0.27403	1.22737	237.3735	286.4529	-1.00468	0.98547	0.99534	164.9546	166.1435
0.06829	0.83873	1150.632	963.5721	1.31753	1.80E-07	1.31753	1022.379	1347.742
0.57925	1.0356	1306.948	1358.724	-1.05139	0.45506	0.95112	1928.125	1821.852
0.44711	1.03832	3286.772	3405.207	1.03479	0.52283	1.03479	3455.207	3584.808
0.81761	0.91665	120.9825	106.6949	4.70462	4.97E-10	4.70462	90.22171	421.9802
0.46909	1.0756	404.4262	435.9696	-1.02333	0.85572	0.9772	421.7279	409.5596
0.32519	1.23625	142.2894	175.9912	1.7928	0.04187	1.7928	133.5979	235.2353
0.62982	1.12777	243.2816	265.9363	1.26046	0.15912	1.26046	230.2174	291.9446
0.00083	0.78763	20154.48	15887.39	-1.44246	2.00E-10	0.69326	18257.21	12654.42
0.6888	1.02504	2523.054	2576.064	-1.02322	0.65028	0.97731	2476.518	2417.598
0.59327	1.06532	466.4304	493.2664	1.1003	0.30727	1.1003	509.7491	562.4679

0.46361	1.12925	380.2782	422.0147	2.05547	7.21E-14	2.05547	318.7965	656.4332
0.83353	0.97688	534.9847	523.3178	1.01424	0.79824	1.01424	799.3439	810.7504
0.55239	1.18235	96.02483	113.0725	1.34252	0.33193	1.34252	130.5913	176.1147
0.88711	0.96075	159.0448	149.7586	1.29418	0.26097	1.29418	143.3634	185.6895
0.21966	0.79218	194.9262	155.2078	-1.20564	0.53814	0.82944	159.497	133.0584
0.33677	0.7986	255.4779	200.816	1.12542	0.44766	1.12542	211.4513	237.5241
0.4927	1.03888	4136.808	4285.685	1.04115	0.35681	1.04115	4463.163	4644.837
0.86938	1.06776	86.88766	91.06348	1.20222	0.69707	1.20222	71.19856	86.2021
0.6948	1.03548	394.3096	407.5533	-1.09279	0.33187	0.91509	430.9063	393.9507
0.43096	1.13598	173.7365	197.1124	1.27834	0.08395	1.27834	205.2543	262.2823
0.2017	0.85818	428.2124	367.146	-1.14252	0.17951	0.87526	425.6851	372.9869
0.05148	1.09795	1641.84	1804.577	1.03174	0.57189	1.03174	1660.413	1710.523
0.14234	1.12997	4474.586	5085.783	-1.03625	0.6853	0.96502	5269.886	5073.604
0.95533	1.01392	162.2415	167.32	-1.39592	0.21944	0.71638	175.8311	125.6253
0.05546	1.10956	4707.566	5218.659	-1.07161	0.12314	0.93318	5612.104	5231.971
0.03382	1.09229	2975.781	3250.435	-1.22185	0.00731	0.81843	3875.631	3150.452
0.32126	1.11432	601.5574	674.8836	1.0542	0.49896	1.0542	949.3329	1000.837
0.00274	0.70715	40709.37	28891.88	1.15916	0.068	1.15916	39112.49	45376.21
0.37445	0.95389	1044.609	996.0405	-1.00838	0.89595	0.99169	931.9318	924.823
0.5079	0.95906	3156.869	3048.223	-1.07307	0.40019	0.9319	3025.387	2805.292
0.15702	1.07111	3603.043	3865.752	-1.05647	0.34502	0.94655	3698.065	3495.604
0.4044	0.79677	3044.688	2296.486	-2.45758	1.41E-39	0.4069	2363.104	958.9894
0.46196	0.96773	108672.5	105138	1.24643	0.00008	1.24643	129012.4	161014
0.73803	0.97959	2327.424	2264.614	1.01656	0.70525	1.01656	2256.648	2294.324
0.73701	0.98245	1121.499	1100.72	-1.04709	0.39528	0.95503	1068.628	1021.031
0.9302	0.99539	30477.56	30388.68	1.38744	8.25E-12	1.38744	36677.71	50890.5
0.97734	0.99796	2280.172	2275.641	1.32085	6.87E-07	1.32085	2160.038	2852.167
0.41068	1.06102	1273.444	1363.379	1.10751	0.05372	1.10751	1605.096	1779.596
0.17845	1.07015	3065.767	3276.353	-1.06918	0.14554	0.93529	7781.038	7267.054
0.1969	1.08624	1899.656	2057.624	1.05255	0.3186	1.05255	2193.661	2313.231
0.41651	1.06882	404.0305	431.7654	-1.0626	0.59626	0.94109	350.6548	329.8137
0.30934	1.06083	2696.945	2849.041	1.28383	5.52E-07	1.28383	2438.333	3133.391
0.56633	1.04726	4426.909	4640.204	-1.42632	9.88E-07	0.7011	5697.925	3975.72
0.56655	1.06566	302.6529	321.6296	1.12157	0.28119	1.12157	336.9828	378.3975
0.23858	1.24063	187.4193	230.6724	2.71914	2.03E-13	2.71914	209.5107	568.4547
0.69893	1.02739	12009.71	12340.8	-1.08721	0.05913	0.91978	11548.88	10630.76
0.84987	1.0262	309.1884	314.6509	1.91107	6.89E-08	1.91107	248.3497	476.001
0.89012	0.99012	687.4385	681.7528	1.18565	0.0543	1.18565	740.8403	875.53
0.79815	1.09821	98.32973	109.7134	1.06516	0.85985	1.06516	185.7523	182.7488
0.00007	1.23282	1149.898	1418.75	1.22657	0.09478	1.22657	1183.026	1450.542
0.01056	1.3079	451.9689	593.7144	1.38394	0.00234	1.38394	505.0321	695.8806
0.03164	1.14956	10862.23	12502.9	-1.34242	0.01091	0.74492	13605.92	10130.08
0.76753	1.03403	456.855	469.2925	1.38183	0.00013	1.38183	409.0577	565.8422
0.05891	1.19985	5952.325	7079.313	-1.59886	0.0001	0.62545	12645.31	7753.822
0.73999	1.05119	278.9111	290.2854	1.07822	0.76034	1.07822	216.2438	230.3695
0.92743	1.02337	150.4923	154.4781	-1.21544	0.76087	0.82275	138.311	113.7949
1	1	16.96713	22.3843	1	1	1	17.0459	32.52645
0.70489	0.92706	597.7286	565.8204	-1.22098	0.19926	0.81901	326.7167	269.4392
1	1	19.89631	23.45448	-1.69934	0.68171	0.58846	39.51538	31.43112
0.373	1.04252	4234.33	4420.696	-1.02206	0.6034	0.97841	4471.012	4374.137
0.80794	1.01562	2406.87	2436.927	1.00511	0.90344	1.00511	2708.514	2722.271
0.4566	1.04066	5584.041	5841.656	-1.22543	0.00103	0.81604	6150.428	5001.479

0.64432	1.02269	1467.56	1499.946	-1.04208	0.40954	0.95962	1596.031	1532.667
0.58859	1.04302	1427.623	1488.818	1.36326	4.34E-10	1.36326	1313.777	1790.921
0.99549	0.9935	34.27087	35.30275	1.02415	0.97403	1.02415	56.96913	56.39955
0.6351	0.92863	220.1865	204.6867	-1.2189	0.25211	0.82041	216.5547	177.6636
0.12782	1.09256	2305.341	2506.789	-1.00149	0.9741	0.99851	1710.423	1707.403
0.03665	1.13885	6544.596	7480.375	-1.07725	0.29359	0.92829	7277.04	6758.466
0.05783	0.87154	6832.337	5964.115	1.54909	1.55E-07	1.54909	5840.814	9056.182
0.88243	1.04081	113.5386	117.744	1.14651	0.41037	1.14651	235.8966	271.7931
0.92532	1.00759	2585.954	2578.612	-1.04018	0.49586	0.96137	2593.634	2500.521
0.50395	0.92422	5460.993	5001.495	-1.57598	2.93E-21	0.63453	5042.051	3199.904
0.40174	1.05223	3402.561	3573.19	1.12671	0.02498	1.12671	3326.598	3756.329
1	1	18.81306	22.45086	1	1	1	18.31837	30.27397
0.89006	0.99168	981.5678	971.6538	-1.04108	0.49212	0.96054	901.1925	865.8928
0.34669	1.07704	786.0035	849.9152	1.52815	0.00002	1.52815	752.6218	1147.436
0.77443	0.94693	164.6438	155.9823	1.62349	0.0505	1.62349	122.5282	197.9232
0.56082	1.06016	325.6843	345.7673	1.06231	0.68032	1.06231	297.9238	316.0869
0.74315	1.03444	324.8046	335.7031	1.10962	0.42128	1.10962	321.0259	356.3181
0.67282	0.98044	1550.453	1519.542	-1.36498	7.59E-09	0.73261	1713.588	1255.601
0.84484	0.96125	178.5309	170.8995	1.10914	0.65904	1.10914	154.9549	172.5653
0.92324	1.01341	339.1552	341.8145	1.05885	0.63534	1.05885	284.7418	301.6636
0.77804	1.06125	184.7876	193.3728	-1.07831	0.74478	0.92738	187.1261	172.3664
0.01786	1.12028	3483.48	3899.727	1.04485	0.32022	1.04485	4155.955	4344.31
0.62595	1.04425	1926.574	2003.68	1.02086	0.75673	1.02086	1966.515	2016.808
0.78205	0.8907	88.65845	79.93437	-1.32711	0.53967	0.75352	78.2044	58.8062
0.85436	1.04056	154.2909	160.6267	1.25145	0.27985	1.25145	167.3932	208.4009
0.84518	0.77389	33.53281	27.84754	1	1	1	24.29539	31.09296
0.21975	1.09712	8793.707	9620.979	-1.39277	2.18E-08	0.71799	8456.955	6082.098
0.11396	1.07882	3789.283	4085.314	1.1023	0.03771	1.1023	4350.899	4794.267
0.24054	1.14859	336.9105	385.8792	1.19427	0.05549	1.19427	409.4709	488.7406
0.10781	0.8395	11013.44	9217.492	1.3727	0.00034	1.3727	10842	14922.46
0.98152	1.00274	4082.575	3980.683	-2.064	0	0.4845	4646.647	2250.427
0.7338	0.96741	490.5748	473.1903	-1.12748	0.15691	0.88693	553.3607	491.4817
0.66123	1.05138	1096.248	1154.421	-1.34013	0.00288	0.74619	1377.873	1021.201
0.28897	0.73625	220.9818	173.2584	-1.03741	0.67131	0.96393	408.7748	394.0383
0.25584	0.92358	10084.37	9284.704	1.28862	6.04E-06	1.28862	9517.313	12258.03
0.6124	1.02435	1429.57	1464.482	1.61544	1.25E-07	1.61544	1320.156	2137.121
0.50239	1.05407	447.4099	472.1984	1.0653	0.50257	1.0653	414.9899	441.6911
0.54207	0.9176	457.9631	422.9179	1.07049	0.60414	1.07049	319.5171	343.4588
0.94813	0.99079	8832.088	8745.286	1.46456	0.00417	1.46456	7724.809	11398.93
0.97778	1.00199	2174.088	2186.97	-1.09099	0.35564	0.9166	2525.224	2305.946
0.14209	0.78901	780.7464	616.0157	1.13642	0.19042	1.13642	622.0009	709.777
2.59E-06	0.63071	8366.969	5262.975	-1.37258	0.00016	0.72855	6302.801	4590.534
0.38027	0.86344	1869.239	1592.058	-1.22511	0.00063	0.81625	2425.692	1974.828
0.09929	1.10264	2807.093	3109.111	1.08854	0.23087	1.08854	2817.545	3074.077
0.21278	1.19434	843.5736	1007.512	1.03155	0.74407	1.03155	1609.985	1651.965
0.9788	0.99807	907.7335	903.1603	1.05233	0.40748	1.05233	807.835	849.4674
0.94381	1.00817	3102.513	3126.142	-1.55886	4.44E-08	0.6415	2619.557	1679.655
0.15708	1.15585	921.2854	1072.144	1.31396	0.10964	1.31396	589.5838	787.1397
0.39781	1.09556	571.1361	629.5799	-1.05737	0.37826	0.94574	909.2332	858.8854
0.44476	1.05903	939.8171	990.6137	1.0159	0.78425	1.0159	960.3527	975.4208
0.93825	1.01293	311.3752	309.8342	1.80807	2.36E-07	1.80807	294.9915	535.3528
0.62151	0.90674	212.4607	190.8366	-1.11904	0.6611	0.89363	200.6427	178.6843

0.77657	1.01781	842.8461	859.4014	-1.08336	0.42626	0.92305	792.9592	729.1101
0.00106	0.8698	7379.457	6417.394	1.22036	0.01887	1.22036	6550.495	8003.445
0.03739	0.74852	5689.416	4248.789	1.28004	0.07214	1.28004	4689.28	6119.925
1	1	17.82146	25.54628	1	1	1	18.31783	29.83718
0.49018	1.33654	86.02458	112.7097	1.3195	0.32679	1.3195	136.153	182.3827
0.26289	0.85938	303.5713	262.3301	1.20671	0.36047	1.20671	258.6289	305.8402
0.01478	1.13113	1127.35	1274.412	1.06719	0.22606	1.06719	1140.018	1216.288
0.89364	0.97061	450.3894	425.4645	1.5864	0.01236	1.5864	363.6232	587.3008
0.9639	1.05331	35.07207	42.19793	1.63649	0.71894	1.63649	28.27229	41.85867
0.8084	0.95292	383.0825	375.0453	-1.51968	0.0213	0.65803	356.027	237.8203
0.20098	0.8533	911.5596	769.9968	1.04538	0.51433	1.04538	720.1776	753.5175
0.40981	1.13961	215.4185	247.1261	-1.09478	0.67811	0.91343	220.0114	200.2782
0.22536	1.10193	408.5065	449.7006	1.02706	0.80224	1.02706	391.4626	401.5153
0.20338	0.82835	588.5198	479.2158	1.3345	0.00422	1.3345	728.6096	975.2882
0.06009	1.10936	1090.269	1211.061	1.26393	2.35E-06	1.26393	1433.969	1812.624
0.93001	0.98947	1054.338	1048.745	-1.33565	0.00002	0.7487	932.4434	697.5696
0.53848	0.95206	1259.08	1206.667	1.04103	0.45353	1.04103	989.8955	1030.752
0.62751	0.95756	390.864	373.8804	-1.03043	0.82808	0.97047	269.0798	261.6896
0.07018	0.66387	212.3958	139.0194	-1.01779	0.94765	0.98252	158.4234	155.9814
0.00955	0.74034	410.8832	305.6515	-1.54643	0.00404	0.64665	332.8689	215.3859
0.37855	0.89933	487.4479	442.2978	1.10218	0.33489	1.10218	430.421	473.0793
1	1	18.97246	23.54207	1.11695	0.95214	1.11695	17.98791	30.84077
0.002	0.64319	3279.433	2082.25	-1.55058	9.83E-07	0.64492	2440.037	1575.344
0.20857	1.08775	1048.5	1137.052	-1.03275	0.63866	0.96829	1141.701	1103.332
0.84064	1.08347	91.89198	101.1624	-1.00444	0.98653	0.99558	167.154	166.7119
0.63004	0.9627	2075.668	2006.681	-1.14597	0.00701	0.87262	1831.764	1599.334
0.00068	0.74589	6459.825	4866.245	-1.05006	0.66855	0.95232	5652.131	5382.652
0.96773	0.9967	3264.035	3245.857	1.0087	0.90035	1.0087	3025.373	3067.438
0.88997	1.03112	138.8644	143.873	-1.09142	0.80163	0.91624	138.2774	129.5989
0.64388	0.94892	317.3842	300.3508	1.13607	0.23128	1.13607	351.8189	398.9073
0.81167	1.17764	43.61613	51.24479	1.60277	0.61858	1.60277	35.27551	57.62377
0.55768	1.03228	3130.583	3241.059	-1.08248	0.24707	0.92381	3335.786	3077.084
0.73901	1.06307	199.1995	211.9553	1.1705	0.34747	1.1705	186.057	217.9372
0.4981	1.2308	90.82234	111.7939	-1.10023	0.82647	0.9089	92.06903	83.69504
0.30127	1.06303	3898.644	4151.305	1.1237	0.11449	1.1237	4162.38	4676.908
0.24118	1.06837	5961.534	6370.352	-1.60099	1.13E-18	0.62461	6239.78	3895.596
0.12252	1.22722	473.6268	588.6714	-2.27447	2.44E-06	0.43966	745.3371	322.6699
0.43902	1.04253	1230.312	1280.723	-1.0608	0.29182	0.94268	1323.511	1246.502
0.25901	1.10314	454.1957	499.6924	1.13307	0.14205	1.13307	428.3262	484.8756
0.05789	0.6744	412.9622	272.7378	1.24286	0.41586	1.24286	323.1935	408.9512
0.37737	1.06335	927.2031	989.4133	1.04864	0.54329	1.04864	971.1443	1016.688
0.25412	0.82057	213.8895	176.25	-1.11829	0.66901	0.89423	180.6143	163.3545
0.02625	1.1465	1198.005	1371.558	-1.02976	0.57715	0.9711	1495.303	1453.92
0.82275	0.98165	711.215	695.8532	-1.11108	0.24707	0.90002	589.9044	529.4835
0.04842	0.87249	1230.863	1073.429	-1.36527	0.00069	0.73246	1272.391	929.2702
0.13184	0.89019	1101.116	977.0723	1.38897	0.0007	1.38897	994.2424	1383.973
0.52634	1.03984	1996.951	2067.392	-1.01446	0.78074	0.98575	2034.037	2008.222
0.85595	0.81911	28.82628	23.3388	1	1	1	21.51299	32.9115
0.30769	0.90974	1753.146	1589.669	1.1646	0.01275	1.1646	1512.694	1765.527
0.12443	1.12465	1373.464	1549.04	-1.43233	0.00003	0.69816	1291.332	896.3244
0.68129	1.02907	2892.084	2982.561	-1.04734	0.4305	0.9548	3336.34	3180.042
0.00019	1.18561	8219.141	9749.285	5.67245	0	5.67245	9350.051	53292.27

0.77239	0.98596	1057.972	1043.114	-1.18274	0.01512	0.84549	1052.69	889.655
0.08708	1.24332	1262.218	1569.343	-1.08744	0.28178	0.91959	2652.082	2440.998
0.78424	1.02102	2413.628	2465.927	-1.14157	0.04047	0.87599	3915.061	3448.539
0.75003	0.97518	812.6242	795.8536	-1.14604	0.13043	0.87257	781.1309	679.1984
0.51073	1.0418	758.4932	789.7517	-1.11987	0.23039	0.89296	655.6165	584.6129
0.02238	1.20627	1136.656	1383.551	1.02277	0.83218	1.02277	2876.607	2997.705
0.578	1.05005	941.2019	993.4983	-1.08564	0.28883	0.92112	1067.07	981.639
0.48753	0.91762	504.2101	464.1434	-1.10252	0.38466	0.90701	345.1544	312.6053
9.32E-09	0.69409	2880.737	1993.023	-1.05966	0.31121	0.9437	2370.558	2237.76
0.4577	1.29619	117.7454	145.5932	-1.01435	0.95592	0.98585	273.9904	264.1657
0.00096	0.73227	2991.308	2190.087	1.44333	2.94E-08	1.44333	2396.494	3459.764
0.06567	0.89601	4141.418	3709.141	1.2898	0.00016	1.2898	3496.864	4509.438
0.56982	1.04753	2062.073	2164.189	-1.26553	0.00429	0.79018	2620.601	2068.316
0.77079	0.90723	113.9619	103.6258	1.27606	0.41594	1.27606	105.5143	135.1655
0.76456	1.03104	617.9175	633.5516	1.42368	3.79E-08	1.42368	724.1975	1029.929
0.98719	1.00136	422.6242	423.3023	1.08075	0.36394	1.08075	419.073	453.0773
0.02187	0.75088	554.4742	411.8251	-1.05518	0.68339	0.94771	543.8516	520.7562
0.86942	0.96086	171.3469	163.3723	1.19755	0.44729	1.19755	143.0792	171.9246
0.00142	1.28725	3077.802	3976.245	1.18746	0.03593	1.18746	3630.225	4315.45
0.05023	1.09261	1310.891	1432.444	1.12287	0.03175	1.12287	1465.323	1643.686
0.82047	0.81401	43.36004	35.12403	-1.10242	0.93825	0.90709	30.48101	30.17535
0.42196	0.93176	21545.04	20258.4	-1.05318	0.51606	0.9495	25313.1	23780.17
0.5679	1.03429	1988.159	2055.156	-1.00456	0.93182	0.99546	2353.853	2344.463
0.44716	0.9451	949.8273	900.8096	1.07552	0.27093	1.07552	838.0377	900.5071
0.85192	1.11455	59.05875	64.51249	-1.23985	0.61742	0.80655	98.77512	79.87815
0.34668	0.85119	252.3528	217.0015	-1.03993	0.85009	0.9616	207.2525	197.7398
0.17223	1.14035	977.9492	1120.755	-1.55182	0.00787	0.6444	842.7432	543.0669
1	1	18.54158	21.85053	1	1	1	17.43037	30.12216
0.05216	0.90997	5497.956	4999.019	-1.08985	0.25121	0.91756	6855.937	6304.958
0.30166	0.8454	976.6442	830.3826	-1.27934	0.0077	0.78165	1073.287	837.4257
0.01066	1.12715	1184.926	1335.611	-1.06897	0.31411	0.93548	1414.572	1321.36
0.99896	1.00047	77.29633	77.30891	1.33678	0.6476	1.33678	63.31171	86.72955
0.13545	1.16722	3626.445	4229.781	-1.88593	0.00003	0.53024	4916.594	2550.538
0.89116	0.98475	789.2417	771.328	-1.06114	0.52618	0.94238	696.8505	658.934
0.1346	1.1167	1034.557	1151.522	-1.25238	0.00004	0.79848	1070.728	855.2313
0.83396	0.98266	489.89	480.2945	1.04063	0.61153	1.04063	522.0897	543.8481
0.3173	1.06835	1796.282	1927.626	-1.11082	0.18041	0.90023	1861.549	1667.562
0.58631	0.96114	1304.12	1257.108	-1.18244	0.00628	0.84571	1194.37	1009.484
0.82556	1.0305	1181.6	1212.074	1.12533	0.236	1.12533	1126.661	1273.651
0.47759	0.94137	456.7186	430.8387	1.21163	0.0298	1.21163	449.7004	543.9371
0.0268	0.75519	16069.04	12080.85	1.5069	0.00032	1.5069	13516.35	20539.15
0.13388	1.15051	1663.861	1915.429	-1.04221	0.77225	0.9595	1797.334	1712.263
0.08155	1.09075	10974.58	11972.39	-1.18571	0.06676	0.84338	13303.64	11161.16
0.51168	1.05302	1390.26	1474.02	1.10316	0.18597	1.10316	1880.497	2081.593
0.17558	1.08118	1872.464	2029.91	-1.16034	0.00316	0.86182	2125.566	1831.731
0.14003	0.93082	1308.823	1218.836	-1.13315	0.02223	0.8825	1210.379	1068.602
0.83364	0.97317	577.4235	557.1953	1.12059	0.32343	1.12059	568.6635	640.0989
0.94174	1.05124	58.41416	65.41787	1.09158	0.7718	1.09158	112.4122	123.3569
0.74868	0.95291	336.6379	323.5454	-1.01333	0.93271	0.98685	450.5866	432.5059
0.61308	0.93732	534.669	506.0313	-1.04723	0.66982	0.9549	430.4364	412.332
0.30753	0.92718	3806.114	3557.663	-1.17203	0.00077	0.85322	3528.37	3011.896
0.78982	1.02066	722.2955	739.6762	-1.09896	0.14333	0.90995	689.4312	627.6278

0.95924	0.98839	133.1987	131.1098	-1.07568	0.85548	0.92964	130.2602	116.4833
0.73478	1.02418	2552.113	2634.16	-1.15325	0.04712	0.86712	2426.605	2100.774
0.6021	0.95335	705.6509	675.5714	1.11622	0.18549	1.11622	591.909	659.52
5.22E-08	0.76025	2339.397	1778.501	-1.01318	0.88819	0.98699	1831.665	1804.554
0.32839	1.05398	1718.158	1811.222	-1.14597	0.01901	0.87262	2092.623	1823.291
0.0276	1.10273	2668.93	2943.242	-1.25413	8.12E-08	0.79737	3434.068	2738.007
0.22998	1.06335	3122.896	3323.36	1.20326	0.07334	1.20326	3472.893	4163.978
0.30727	0.90307	3685.337	3323.596	1.48546	0.0001	1.48546	3416.736	5093.732
0.99599	1.00072	254.1866	255.4731	1.03135	0.86144	1.03135	210.4688	216.2411
0.83653	1.05222	201.4391	203.8848	1.56307	0.02112	1.56307	210.7381	333.1671
0.35923	1.16497	220.9267	259.7731	1.27587	0.074	1.27587	221.9668	283.1941
0.54613	0.93238	1080.401	991.3928	1.44363	0.00007	1.44363	1222.729	1769.186
0.25974	1.11893	318.9983	356.34	1.02183	0.85663	1.02183	325.4474	332.5593
0.78121	1.01766	2207.626	2244.596	-1.11453	0.12919	0.89724	2006.643	1804.688
0.63842	0.94903	657.2495	628.4906	-1.17215	0.18314	0.85313	673.1151	570.9602
0.7634	1.01312	25430.71	25770.7	1.21157	0.01235	1.21157	25058.13	30514.16
0.29334	1.07819	1851.634	2005.79	-1.27208	0.00095	0.78611	1818.826	1434.175
0.0042	0.74657	772.0458	572.7085	1.19815	0.01133	1.19815	703.8869	844.2146
0.77155	1.01217	2508.642	2539.251	1.06006	0.34273	1.06006	2506.209	2644.386
0.05592	1.10258	3304.505	3651.791	1.24987	0.00017	1.24987	3825.478	4778.32
0.02612	0.75523	2211.021	1671.019	-1.76095	2.20E-11	0.56787	1898.193	1079.052
0.88891	1.0087	615.4015	621.0446	-1.08677	0.30083	0.92015	566.4475	520.6056
0.12651	0.88322	9696.435	8606.018	1.19041	0.00195	1.19041	9047.751	10777.06
0.96212	0.99793	7209.5	7195.556	-1.22706	0.00032	0.81496	6110.568	4978.208
0.5879	1.11768	16767.4	18746.97	-3.1196	2.31E-07	0.32055	29078.5	9052.48
0.09699	1.11371	1722.169	1921.308	-1.29112	0.00494	0.77452	2087.356	1601.132
0.31676	0.92189	71545.59	66192.77	1.16121	0.01149	1.16121	75491.78	87716.09
0.79127	1.48696	18.67387	27.37947	-1.01562	0.99028	0.98462	27.81175	32.34221
0.06508	1.27656	392.0177	493.8846	1.53925	2.00E-13	1.53925	636.5252	979.7562
0.05941	1.09712	1528.145	1676.917	1.03282	0.59878	1.03282	2025.756	2099.264
0.98412	1.00577	296.8458	298.5578	1.41066	0.00288	1.41066	239.7307	338.0753
9.45E-08	0.79548	2467.703	1963.006	-1.35216	0.00058	0.73956	2140.854	1579.108
0.63868	1.03354	747.3349	772.0501	-1.07047	0.26582	0.93417	1074.349	1002.165
0.21222	0.93168	7462.607	6930.811	1.16817	0.0029	1.16817	6652.011	7774.775
0.96024	1.0297	73.86472	74.53719	-1.21402	0.82187	0.82371	54.03062	45.1925
0.04474	0.89123	2870.799	2558.527	-1.19237	0.01883	0.83867	2598.891	2177.775
0.38395	0.84812	7055.851	5895.799	-2.5842	1.37E-30	0.38697	4233.356	1637.427
0.86054	0.9672	502.76	496.4497	-1.7143	4.07E-07	0.58333	535.3801	313.0615
0.6476	1.0295	2866.916	2966.131	1.00297	0.9593	1.00297	3053.803	3063.618
0.04271	1.18134	4099.514	4839.947	-1.40517	0.0002	0.71166	5982.808	4219.272
0.50972	1.03589	7378.976	7661.028	-1.06354	0.36573	0.94026	8277.637	7772.408
0.83894	1.01443	927.0297	938.2959	1.06436	0.30214	1.06436	962.1666	1025.074
0.76372	1.02774	725.9634	742.6022	1.06033	0.35687	1.06033	742.2655	786.6508
0.36446	1.07974	754.1703	810.4078	1.08629	0.2899	1.08629	855.1758	931.8619
0.01822	0.87021	1115.7	969.0431	-1.51659	5.14E-06	0.65937	1094.384	723.7021
0.87656	1.0077	2927.268	2945.646	1.01169	0.82158	1.01169	2996.039	3031.941
0.50229	1.06624	391.0753	415.8644	1.19924	0.14515	1.19924	361.2235	435.049
0.38016	1.06407	638.901	680.6362	-1.06234	0.36386	0.94131	1464.921	1384.335
0.76658	1.01754	1975.716	2013.303	1.0174	0.81959	1.0174	2170.136	2210.108
0.80736	1.03027	354.9191	364.9735	1.18036	0.10844	1.18036	363.442	428.1452
0.9045	1.0126	2754.841	2779.932	-1.68317	2.03E-24	0.59412	2856.284	1695.964
0.01807	0.85888	1266.065	1086.573	1.15061	0.07476	1.15061	1054.46	1211.075

0.03046	1.25406	15334.88	18652.75	-1.8665	2.16E-07	0.53576	23414.01	12362.95
0.94476	0.99462	1310.677	1312.954	-1.15722	0.00547	0.86414	1141.751	986.2656
0.00934	1.12944	6055.905	6834.579	-1.10343	0.09878	0.90627	6836.313	6164.817
0.95515	0.96709	65.52689	62.93006	1.18048	0.75024	1.18048	82.10915	93.37571
0.07934	1.08501	1798.365	1949.508	1.1602	0.00267	1.1602	1882.001	2185.964
0.71073	0.92457	393.8156	376.1974	-1.52705	0.03431	0.65486	289.2451	191.3171
0.71316	1.07088	3394.534	3485.069	-2.46027	0	0.40646	5222.204	2122.545
0.98111	1.02865	29.72128	29.61111	1	1	1	18.72079	29.72197
0.81444	1.02495	348.0335	357.8012	-1.15836	0.24081	0.86329	337.785	291.4432
0.32456	0.94719	3005.387	2842.533	-1.01855	0.75434	0.98179	2728.51	2679.651
0.00014	0.49354	7634.192	3685.097	-1.28051	0.00071	0.78094	4412.952	3472.219
0.98626	1.0022	1256.073	1269.331	-1.37372	1.37E-06	0.72795	942.2029	685.6827
0.68765	1.11946	141.1468	155.3396	-1.16379	0.39389	0.85926	238.0591	203.6561
0.67588	0.89708	152.7375	139.1339	1.42985	0.23143	1.42985	132.2793	187.4417
0.21524	1.05659	4130.467	4366.115	1.0175	0.77371	1.0175	4114.5	4182.054
0.01977	0.81074	2015.72	1633.428	2.48467	4.36E-42	2.48467	1561.194	3886.698
0.66479	1.03847	1438.975	1508.45	-1.02108	0.70459	0.97935	1399.445	1371.506
0.1009	1.16747	317.584	370.9163	1.15148	0.24962	1.15148	345.1169	395.8844
0.70402	1.02004	1236.51	1262.925	-1.14042	0.02447	0.87687	1213.474	1062.58
0.33496	0.93666	1341.596	1259.089	-1.34336	6.57E-08	0.7444	1293.596	963.5599
0.35679	1.05342	1078.27	1135.86	1.46853	7.38E-10	1.46853	1423.664	2091.631
0.95395	0.99531	1742.456	1727.671	-1.02475	0.83124	0.97585	2479.792	2436.305
0.00038	1.23738	16369.01	20197.7	-1.23983	0.09303	0.80657	20205.26	16006.18
0.35688	1.10567	531.6016	583.5237	1.20851	0.14653	1.20851	424.2764	514.7114
0.75805	0.97056	457.1552	444.838	-1.03627	0.67865	0.965	476.6649	459.5591
0.14107	1.15429	774.1428	887.8362	1.41548	5.63E-10	1.41548	787.5926	1114.53
0.99245	0.99897	664.1815	666.9005	-1.0972	0.37642	0.91142	954.0237	864.8151
0.63727	1.02983	1243.268	1282.195	-1.13671	0.07296	0.87973	1108.755	972.9122
0.08074	0.80259	791.4818	628.3618	-1.43054	0.00028	0.69903	688.9236	483.1389
0.73409	1.0265	1708.757	1746.761	1.00013	0.99845	1.00013	1706.711	1706.131
0.7016	0.86673	88.11969	76.87932	-1.02772	0.97008	0.97302	64.47641	61.27785
0.1487	0.91661	3738.407	3418.16	1.33325	2.13E-08	1.33325	3830.517	5113.397
0.40175	0.925	662.37	614.915	-1.23716	0.02695	0.8083	777.6401	626.3287
0.72269	1.11473	116.2416	127.7925	-1.11781	0.76877	0.8946	105.2259	94.0217
0.19334	1.13564	365.8262	414.2004	1.03479	0.70176	1.03479	459.6972	476.2447
0.09674	1.1241	3911.156	4413.537	1.01376	0.84344	1.01376	4272.985	4347.836
0.10512	0.91008	1377.977	1253.355	-1.05311	0.25328	0.94957	2031.457	1929.25
0.90834	0.99261	1942.546	1935.021	-1.01089	0.88588	0.98923	2025.991	1994.687
0.61746	0.96031	2350.526	2276.156	-1.14627	0.06526	0.8724	2417.947	2101.698
0.00005	0.82849	3011.939	2495.791	-1.60969	2.11E-22	0.62124	2770.283	1719.841
0.15801	0.84017	2226.532	1867.234	1.12734	0.3173	1.12734	2268.854	2551.256
0.81171	0.98548	903.0024	888.5777	-1.36147	0.00219	0.7345	776.6483	572.6138
0.36108	0.836	164.491	137.1407	1.06163	0.82276	1.06163	152.6259	160.1928
0.00003	0.78732	4185.16	3285.059	1.06064	0.41631	1.06064	3756.485	3974.103
0.00168	1.19466	7925.43	9481.424	-1.1015	0.19317	0.90785	8718.061	7917.257
0.10646	1.08506	10292.56	11173.54	-1.25225	0.00125	0.79856	10987.04	8756.17
0.65481	0.94025	12612.83	11961.44	1.18601	0.07414	1.18601	11597.34	13758.11
0.52041	1.08895	391.8406	421.8992	-1.63132	0.01515	0.613	326.8032	199.5399
0.47332	0.78801	194.6082	162.8144	-2.5981	0.09177	0.3849	132.1726	53.59103
0.93798	0.98826	260.6863	256.2152	1.10476	0.60881	1.10476	288.2833	318.334
0.11899	1.1213	851.549	958.8588	1.09512	0.10007	1.09512	924.316	1012.65
0.05888	1.20121	457.7512	547.26	2.19764	1.22E-31	2.19764	438.5591	964.184

0.55101	1.03028	1659.627	1711.281	-1.08973	0.06647	0.91766	1828.434	1678.469
0.98721	0.98861	41.20033	40.64964	1.07073	0.94955	1.07073	24.24826	33.02208
0.26647	0.94439	2167.872	2051.99	-1.12051	0.02266	0.89245	2147.259	1916.176
0.00082	0.84523	4417.93	3731.439	1.26255	0.00151	1.26255	3732.192	4721.844
8.42E-09	0.66413	3067.377	2031.932	-1.01397	0.76979	0.98622	2198.271	2168.699
0.70232	0.93436	289.9899	275.6679	1.10064	0.6203	1.10064	284.6899	308.8409
0.69802	0.96142	2958.301	2790.342	-1.72024	1.66E-08	0.58131	3093.715	1794.815
1	1	18.57998	23.57713	1	1	1	19.72182	32.27564
0.66125	1.02692	4309.459	4448.324	-1.00425	0.94112	0.99576	4008.86	3985.582
0.01961	1.17755	1268.353	1496.767	1.24105	0.01929	1.24105	1568.611	1944.627
0.91337	1.01275	706.7756	721.0926	-1.15146	0.02476	0.86846	847.6343	736.2234
0.46227	1.06788	536.2413	575.0209	1.02065	0.77767	1.02065	577.422	588.9938
0.94378	0.99561	1638.639	1634.429	-1.25313	0.00069	0.798	1553.805	1242.72
0.76003	1.0401	541.975	563.4898	1.04568	0.50867	1.04568	615.1029	642.9429
0.09891	0.81004	2025.887	1639.385	1.17665	0.07426	1.17665	1612.157	1903.168
0.91871	1.00655	1344.021	1354.043	-1.02734	0.73783	0.97339	1053.274	1029.289
0.28166	1.10816	633.1444	697.7097	1.4254	2.19E-07	1.4254	557.234	793.671
0.02957	1.21388	8240.586	9969.729	-2.0614	4.61E-12	0.48511	10654.72	5068.33
0.68636	1.07319	308.1619	324.2286	2.68796	1.33E-21	2.68796	300.4033	810.1395
0.04933	1.11134	1380.803	1536.98	1.06255	0.32176	1.06255	1519.301	1611.211
0.04923	1.10066	973.5022	1071.701	-1.02942	0.69444	0.97142	1036.933	1004.126
0.19722	1.10323	3489.421	3840.902	-1.1462	0.00621	0.87245	3557.455	3106.442
0.60671	0.93773	549.4943	520.6291	-1.0516	0.49984	0.95093	821.7133	781.9465
0.71477	0.96305	314.0444	302.2018	1.14268	0.25507	1.14268	312.6334	356.6545
0.26746	1.08113	1214.048	1310.997	1.37985	0.00002	1.37985	1076.69	1483.861
0.10069	1.28853	14043.65	17498.92	-3.80059	4.71E-22	0.26312	28057.64	7116.079
0.37929	0.90971	4785.512	4361.172	1.27227	0.04501	1.27227	4148.816	5311.432
0.22753	0.88482	1062.489	938.925	3.84655	8.41E-45	3.84655	951.1791	3683.435
0.00107	0.74309	14390.79	10787.28	1.37274	0.00004	1.37274	13997.11	19254.89
0.1702	0.89911	1648.456	1476.74	1.20513	0.00872	1.20513	1479.56	1786.276
0.76864	1.01548	2595.697	2642.364	-1.06982	0.25942	0.93473	2912.701	2726.558
0.0021	1.23491	2046.227	2520.382	-1.02087	0.73862	0.97956	2843.087	2772.69
0.92559	1.01493	342.2362	343.6346	-1.0151	0.91282	0.98512	331.4454	327.9664
0.00021	0.64452	7119.047	4659.339	-1.68537	3.94E-16	0.59334	5337.867	3176.142
0.53153	0.93458	2182.04	2044.186	-2.03947	1.04E-07	0.49032	2250.009	1103.235
0.9664	1.0258	56.93127	58.61597	1.15635	0.78891	1.15635	57.89732	66.77254
0.7188	0.94945	849.2319	812.5795	-1.38332	0.0002	0.7229	784.8834	565.6737
0.71032	1.03051	701.8063	726.1116	-1.15159	0.13398	0.86837	715.7732	619.2136
0.67342	0.96569	2162.976	2089.376	-1.22922	0.00007	0.81352	2096.705	1706.07
0.38739	0.94368	2068.802	1949.433	1.14298	0.03148	1.14298	1979.305	2264.592
0.2542	1.05971	4938.485	5245.807	-1.06489	0.23474	0.93906	5258.433	4933.029
0.66051	0.88368	8119.347	6605.061	-6.59867	0	0.15155	8480.793	1277.441
0.47514	0.89265	1369.719	1215.031	-1.61698	2.75E-10	0.61844	1056.293	654.2775
0.25555	0.94894	4998.801	4743.313	1.13508	0.04955	1.13508	4622.751	5241.813
0.76224	1.02662	1083.229	1105.853	-1.05019	0.48724	0.95221	1141.901	1088.649
0.31457	1.18124	209.5289	248.7322	1.12872	0.55415	1.12872	211.9048	237.0403
0.81868	0.98721	838.686	827.7647	-1.02009	0.81074	0.98031	885.8664	866.299
3.89E-06	0.67025	4677.557	3135.227	1.21898	0.00311	1.21898	3142.596	3840.215
0.36027	1.09884	837.9508	928.3095	-1.18001	0.01533	0.84745	869.4329	737.7388
0.73982	0.98059	739.354	725.4187	1.04778	0.45081	1.04778	802.4431	840.1555
0.73244	0.80373	67.84094	54.02913	-1.80702	0.63258	0.5534	44.86421	31.77836
0.83427	1.10515	76.32713	83.01295	-1.08911	0.89979	0.91818	57.51473	51.93261

0.48327	0.8931	269.2774	243.0049	-1.57328	0.03196	0.63561	196.644	125.1719
0.42116	1.11008	280.1894	311.444	-1.27103	0.14817	0.78677	255.8196	201.5116
0.35761	0.84224	1774.052	1478.224	-2.92201	0	0.34223	1342.511	459.4909
0.86704	1.01182	986.692	1001.564	-1.14951	0.04915	0.86993	1107.845	961.9586
0.80637	1.01663	671.7237	683.8628	-1.10447	0.3233	0.90541	578.0328	521.2755
0.97731	1.00272	607.3185	605.6673	-1.01969	0.77858	0.98069	626.6569	614.9723
0.03033	0.82227	1358.672	1116.387	1.06007	0.59546	1.06007	1165.389	1228.92
0.93968	1.00964	355.7521	359.4401	1.00595	0.96743	1.00595	331.9349	331.3105
0.32049	0.93933	1095.094	1031.233	-1.14502	0.02501	0.87335	1077.894	940.379
0.8327	1.02915	269.0093	275.412	1.03853	0.79801	1.03853	236.2506	245.8242
0.27804	1.0508	5487.223	5773.081	-1.05163	0.39806	0.95091	5849.256	5571.082
1	1	20.564	23.80259	1	1	1	18.60827	30.59385
0.86705	0.99112	2138.858	2115.707	-1.10957	0.05411	0.90125	2244.751	2020.827
0.10249	1.12123	543.0499	609.4736	1.21124	0.06282	1.21124	496.5622	598.9511
0.43165	1.05219	6378.455	6699.091	-1.42923	2.86E-12	0.69968	6053.198	4237.759
0.12216	1.13981	5784.695	6624.847	-1.4094	0.00004	0.70952	7466.714	5292.361
0.5033	0.94918	6082.785	5772.044	1.26609	4.32E-06	1.26609	5561.733	7044.184
0.12693	1.1207	501.7905	563.1774	1.21074	0.15812	1.21074	493.843	592.8994
0.85703	0.98473	2834.383	2778.133	-1.52986	3.01E-21	0.65365	3533.223	2308.558
0.24787	1.07428	676.6614	727.4938	-1.19389	0.12974	0.8376	696.744	579.5837
0.13235	0.86283	926.4777	800.9674	-1.18598	0.14388	0.84319	798.6092	668.8759
0.9789	1.00257	100564.2	100870.1	1.19264	0.08404	1.19264	121228.5	143300.9
0.66527	1.02223	1720.943	1757.009	1.16843	0.00087	1.16843	1716.642	2005.765
0.23515	0.86938	1137.59	996.9619	-1.26329	0.07875	0.79158	834.8516	664.7938
0.7271	0.90328	155.6787	144.4422	-1.14778	0.68239	0.87125	132.9791	115.2889
0.38123	1.04576	4241.412	4440.146	-1.18525	0.00635	0.8437	4148.854	3487.047
0.54879	0.8569	127.8266	109.1721	-1.25218	0.54277	0.7986	109.7172	87.04306
0.22117	1.05809	2277.471	2410.583	1.10201	0.09287	1.10201	2173.886	2402.049
0.58534	1.06447	1508.452	1614.409	-1.36973	0.00013	0.73007	1605.593	1167.093
0.00743	1.14415	1738	1985.949	-1.09929	0.16068	0.90968	2583.88	2354.076
0.90737	1.0103	354.0181	357.4254	1.07688	0.46781	1.07688	374.6993	402.8687
0.75673	1.02499	563.2461	578.8865	-1.1366	0.26075	0.87982	568.85	497.3326
0.81031	0.96114	240.3506	233.0622	-1.08236	0.78005	0.9239	172.9815	161.3221
0.95729	1.00809	2172.368	2191.082	1.65935	1.20E-08	1.65935	2049.03	3395.514
0.00029	1.28726	1474.751	1899.302	1.1295	0.17452	1.1295	1886.21	2128.537
0.61777	1.02905	6409.943	6601.773	1.704	2.61E-24	1.704	6645.163	11321.73
0.00627	0.63966	2309.23	1443.635	1.14529	0.42922	1.14529	1516.091	1765.453
0.91985	1.03377	129.7235	134.2732	-1.20053	0.69914	0.83297	101.8869	83.30383
0.06594	1.20783	6131.682	7371.821	-1.72653	8.38E-07	0.5792	7310.966	4190.815
0.16026	1.16943	10160.98	11806.02	-1.81805	0.00001	0.55004	14737.66	7903.387
0.83424	0.98596	1070.076	1058.818	-1.08185	0.35375	0.92434	1091.003	1004.308
0.96318	0.99061	214.5418	216.1485	-1.09968	0.72152	0.90936	186.1937	168.8289
0.47791	0.93746	539.4878	507.7139	1.32269	0.08637	1.32269	469.6281	616.0682
0.7387	1.03213	557.5972	572.8018	-1.01064	0.87858	0.98948	635.4376	628.9801
0.98967	1.002	7523.105	7538.837	-1.39664	0.00022	0.716	12280.96	8746.67
0.9333	0.97737	151.1457	144.7761	1.26634	0.27556	1.26634	182.4102	233.7058
0.0565	0.8805	668.8792	588.97	-1.60754	0.00015	0.62207	694.4896	428.8842
0.13004	1.06848	2217.794	2370.686	1.06594	0.18859	1.06594	2520.575	2686.687
0.0532	0.8726	21994.38	19200.35	1.85612	0	1.85612	22299.2	41390.24
0.53223	0.93549	472.0746	444.3574	-1.11725	0.42803	0.89505	453.008	402.0385
0.77405	0.97863	1500.827	1462.42	-1.05963	0.31377	0.94373	1964.959	1856.474
0.24817	1.06504	3167.878	3384.381	-1.05804	0.36405	0.94515	3413.206	3227.463

0.43625	0.94355	2528.46	2410.761	-1.10661	0.02917	0.90366	2607.81	2355.687
0.63825	0.89681	1232.949	1073.303	-2.06405	8.56E-07	0.48448	1431.485	693.5327
0.17091	1.08239	3484.293	3791.191	-1.05129	0.31298	0.95122	3697.036	3512.497
0.00004	1.27278	4141.833	5264.511	1.20914	0.00008	1.20914	6034.513	7301.144
0.29194	1.08691	405.7287	441.3063	-1.11836	0.18649	0.89417	498.8258	445.6252
0.76307	0.95259	584.204	564.8868	1.23446	0.4742	1.23446	463.0993	544.765
0.65029	1.08566	644.5525	714.281	-1.76665	9.20E-11	0.56604	626.0624	354.3718
0.61933	1.02176	1801.455	1840.555	-1.08565	0.14102	0.92111	1864.617	1720.615
0.59819	0.94291	3378.306	3124.615	-1.17746	0.00043	0.84929	4680.576	3978.545
0.99779	0.99836	57.59521	57.76056	-1.35787	0.76328	0.73645	47.32565	35.3577
0.61249	0.95681	922.8016	882.3614	1.00123	0.98708	1.00123	1060.898	1060.113
0.7581	1.02345	1650.25	1697.091	-1.10747	0.03385	0.90296	1699.634	1534.725
0.79583	1.01926	750.0823	762.1637	1.16961	0.01105	1.16961	764.436	893.6378
0.67221	0.93628	990.0005	926.876	-1.38179	0.00011	0.7237	1003.631	723.765
0.57342	0.90534	193.8461	174.7022	-1.03243	0.86467	0.96859	194.6243	188.1783
0.53031	0.88964	2782.648	2401.23	-1.51744	5.42E-20	0.659	3199.948	2108.662
0.00018	1.18114	3709.522	4380.975	-1.46661	0.00009	0.68184	4665.834	3164.028
0.96387	1.00271	1741.039	1745.371	-1.02189	0.74538	0.97858	1712.009	1677.183
0.86224	1.06292	94.88762	100.7055	-1.15492	0.74479	0.86586	94.1205	82.58414
0.35678	0.89894	573.2695	510.7266	1.25557	0.13055	1.25557	471.1029	598.9122
0.06085	1.11041	3854.331	4314.801	1.04999	0.33415	1.04999	4778.478	5022.262
0.00093	0.80147	3349.073	2691.859	-1.50552	0.00015	0.66422	3013.27	1986.718
1	1	17.8413	23.2637	1	1	1	18.12665	30.5482
0.76396	1.01945	3430.95	3508.472	-1.09078	0.18586	0.91678	3624.497	3319.373
0.27469	1.06872	7229.79	7706.515	-1.09894	0.04511	0.90996	7605.445	6905.766
0.23271	1.06163	1328.057	1410.154	1.25983	0.00637	1.25983	2239.601	2815.18
0.91013	0.98544	780.7003	763.8612	-1.92833	6.35E-06	0.51858	683.052	357.0909
0.93985	1.06253	47.28671	53.10175	-1.1536	0.76867	0.86685	93.0102	81.24968
0.25493	0.91617	1965.631	1794.506	-1.10564	0.03905	0.90445	1401.894	1267.999
0.85271	1.02024	448.4943	455.5309	-1.08596	0.50161	0.92084	448.0762	412.34
0.71732	0.95289	1069.78	1018.759	-1.66528	6.97E-15	0.6005	890.3873	534.7255
0.75115	0.93152	335.6294	323.5765	-1.19092	0.35605	0.83969	228.1165	192.4753
0.84067	0.99118	4519.996	4479.637	-1.11252	0.05911	0.89886	4312.871	3875.915
0.99594	0.99969	1506.372	1507.377	1.02177	0.77943	1.02177	1289.044	1317.065
0.91178	0.88908	37.34093	31.53973	1.15196	0.92198	1.15196	28.23652	35.54184
0.42495	0.96633	3624.318	3503.563	-1.16305	0.01667	0.8598	3790.559	3263.428
0.59991	1.03192	1029.213	1064.391	-1.07771	0.22765	0.92789	1013.319	941.4376
0.66293	0.9605	513.1843	491.1588	-1.00158	0.98821	0.99842	469.6114	470.6045
0.22971	1.05732	1303.234	1377.745	-1.02082	0.73927	0.97961	1235.638	1209.531
0.42625	0.95253	2693.408	2564.952	2.07324	1.87E-39	2.07324	2450.345	5081.276
0.38663	1.07113	918.689	980.9352	1.08445	0.37448	1.08445	801.3626	872.0484
0.7188	1.07494	260.5971	277.2975	1.04773	0.73109	1.04773	307.3962	323.4908
0.47048	1.06879	568.6581	604.9114	1.13339	0.08979	1.13339	629.4501	714.3501
0.27653	0.91487	1314.739	1198.542	1.13134	0.1736	1.13134	1438.836	1631.724
0.12863	1.103	1006.032	1110.959	1.00465	0.95419	1.00465	940.2717	942.2017
0.00731	0.66815	7651.851	5051.249	1.15977	0.2773	1.15977	5420.92	6371.648
0.83035	1.05745	109.0222	115.2715	1.03675	0.90345	1.03675	121.0228	124.694
0.5762	0.97656	8437.658	8238.432	-1.15191	0.00749	0.86812	8109.223	7025.812
0.08539	0.88997	1024.415	909.0949	1.06278	0.44307	1.06278	936.944	998.0354
2.34E-07	0.72465	1283.386	928.7246	-1.09155	0.22618	0.91613	1030.284	945.3035
0.37301	1.0669	3855.386	4097.92	-1.39447	1.37E-12	0.71712	4113.903	2951.315
0.78	0.95679	282.284	270.8243	-1.06764	0.60974	0.93665	350.3387	326.8006

0.85605	0.98299	4648.506	4568.631	1.40549	4.22E-06	1.40549	4447.682	6270.647
0.57248	0.92647	640.681	600.2161	1.15383	0.08397	1.15383	514.0438	592.2234
0.84453	0.98897	4186.265	4150.954	-1.12158	0.09415	0.8916	4074.959	3637.504
0.33377	1.15121	297.7817	339.3126	1.1256	0.25145	1.1256	393.8481	442.8951
0.23848	1.07536	4274.16	4571.625	-1.19136	0.00341	0.83938	6319.015	5310.579
0.99996	1	3802.964	3800.76	-1.33926	0.0004	0.74668	3679.978	2743.433
1	1	18.534	23.3839	1	1	1	18.64585	31.27567
0.56992	0.93496	5344.231	5047.035	-1.11475	0.3074	0.89706	6184.74	5504.403
0.72423	1.06199	172.6252	183.544	1.30044	0.3686	1.30044	136.1808	175.729
0.31616	1.08304	374.8485	405.9159	-1.22915	0.00714	0.81357	790.2301	643.9395
0.95811	0.96652	57.55551	55.46397	1.52623	0.63381	1.52623	39.66475	61.03144
2.66E-06	0.75375	13309.35	10041.83	1.04364	0.37654	1.04364	11537.89	12039.83
0.11877	0.79338	323.2571	254.5731	1.08868	0.60792	1.08868	339.807	365.3756
0.80819	0.98221	2092.973	2072.219	-1.1412	0.09194	0.87627	2023.643	1769.494
0.52923	1.0547	449.4091	475.0527	1.09991	0.40555	1.09991	453.7142	496.2247
0.01084	0.76923	8311.596	6358.604	-1.27485	0.00144	0.7844	6933.882	5426.017
0.00213	0.70738	647.4136	454.2668	-1.25202	0.02082	0.79871	605.187	484.8953
0.87846	1.01343	855.9478	873.1669	-1.1444	0.20715	0.87382	876.9989	762.0965
0.49329	0.96787	4610.411	4460.648	1.31943	0.00004	1.31943	4116.817	5430.309
0.47224	0.95611	3388.002	3246.872	-1.07559	0.35738	0.92972	3267.917	3021.409
0.47599	1.07024	976.1775	1035.214	1.31319	0.001	1.31319	931.6956	1229.638
0.91462	0.97928	492.6729	489.0126	-1.75377	0.00101	0.5702	373.6411	215.3697
0.77667	1.01209	3279.183	3319.082	-1.26717	0.00023	0.78916	3211.605	2538.118
0.61695	0.94189	350.4029	328.1904	2.7426	8.01E-35	2.7426	311.7731	855.4127
0.77593	0.98567	1873.986	1849.651	1.00996	0.89195	1.00996	1823.561	1836.114
0.53081	1.03552	1423.344	1472.73	-1.02527	0.63928	0.97536	1967.907	1922.095
0.79634	1.05782	165.0971	172.7783	1.63361	0.01119	1.63361	149.8879	245.3994
0.49152	0.87178	2344.771	1989.396	-2.48574	0	0.40229	2201.811	884.6939
0.3378	0.93984	928.2491	873.9097	-1.43228	0.00011	0.69819	955.3482	668.8712
0.00114	0.61589	1160.458	702.9935	-1.36287	0.00265	0.73374	820.4229	604.1296
1	1	20.65443	23.72351	1	1	1	22.32198	32.61869
0.44982	1.0475	1904.246	1995.004	-1.70722	5.44E-21	0.58575	1802.358	1055.923
0.79548	0.97861	3956.834	3874.077	1.03767	0.56076	1.03767	3824.599	3966.705
0.9824	0.99858	757.9989	757.6317	1.39752	1.99E-06	1.39752	653.3351	912.2101
0.52254	1.05228	864.7384	911.5784	-1.06049	0.65304	0.94296	637.0929	601.0756
0.00946	1.12247	2909.377	3264.491	-1.09945	0.09409	0.90955	3166.234	2868.68
0.05684	1.16664	482.4161	561.7694	-1.02285	0.80231	0.97766	543.4367	530.7835
0.15496	1.11367	1324.823	1478.482	1.04124	0.56319	1.04124	1656.75	1726.897
0.83596	0.93824	119.1332	112.0064	-1.23486	0.64605	0.80981	91.20852	73.69394
0.25847	0.78161	476.9476	361.2012	-1.13419	0.40743	0.88169	367.2203	326.218
0.09927	0.89762	2142.568	1916.716	-1.167	0.00081	0.8569	1876.116	1607.336
0.7364	1.01717	4448.405	4518.022	-1.05015	0.31461	0.95225	4249.646	4052.747
0.29768	1.04581	7341.175	7681.722	-1.00412	0.94118	0.9959	7852.157	7802.12
0.42415	0.91955	1009.88	919.151	1.13623	0.0841	1.13623	885.9097	1009.443
0.4992	0.93542	2186.742	2071.028	1.0442	0.40044	1.0442	1881.162	1964.21
0.81505	0.98868	3523.793	3481.047	1.133	0.0048	1.133	3691.647	4183.017
0.44517	0.92833	423.3922	392.1057	-1.05725	0.63404	0.94585	360.7042	340.5548
1	1	17.19455	25.28635	1	1	1	17.51275	31.1125
0.59332	0.96324	4536.675	4389.238	-1.09444	0.08539	0.91371	4152.912	3792.883
0.09858	1.40481	92752.19	127888.8	-2.93794	8.61E-09	0.34037	184480.8	59833.05
0.48549	1.05735	6671.343	7090.462	-1.16623	0.00586	0.85746	7348.584	6309.335
1	1	18.15902	22.57368	1	1	1	18.43797	28.47525

0.70377	1.07655	547.138	603.3046	-1.67045	0.00823	0.59864	492.9354	291.2629
0.57369	1.09562	324.4098	347.997	1.31917	0.00248	1.31917	444.5948	587.8494
0.16991	1.10352	1194.724	1315.382	-1.08399	0.23123	0.92252	2240.992	2067.246
1	1	19.58045	23.84771	1	1	1	17.73707	30.65963
0.63163	1.02433	1741.574	1782.7	-1.13913	0.08477	0.87787	1354.507	1182.328
0.95056	1.00777	2551.749	2576.834	-1.60683	1.02E-09	0.62234	2255.455	1405.834
0.25962	1.11586	1969.216	2187.522	-1.17211	0.00032	0.85316	3844.411	3277.706
0.00005	0.7837	18286.01	14357.1	-1.75538	9.41E-20	0.56968	17128.39	9763.68
0.92799	1.00935	278.5996	281.2551	-1.01472	0.91796	0.98549	278.561	273.7216
0.04529	0.51041	286.7593	139.6227	-1.1975	0.54444	0.83507	190.9073	163.236
0.64978	1.02435	854.0703	874.8624	-1.02031	0.78604	0.9801	743.7577	727.6283
0.24026	1.05897	31971.65	33814.86	1.13984	0.04733	1.13984	36044.34	41009.93
0.31879	0.81597	3477.417	2693.5	-2.13915	5.40E-40	0.46748	2871.818	1339.699
0.9378	0.98896	245.3492	242.6969	1.02986	0.86358	1.02986	262.3449	272.2167
0.0572	1.12883	8281.58	9309.404	-1.36731	2.11E-08	0.73136	10152.06	7416.552
0.68513	0.96636	649.7847	629.1539	-1.01112	0.88747	0.989	728.8049	722.2079
0.04765	1.09661	4997.118	5469.854	-1.10222	0.06019	0.90726	7309.316	6637.917
0.71094	0.82797	63.56803	53.08138	-2.255	0.13901	0.44346	85.85636	37.92783
0.7335	0.93911	1399.084	1335.472	-1.6597	1.54E-09	0.60252	1302.627	782.475
0.89293	1.01842	570.7156	588.2958	1.06766	0.3683	1.06766	537.4116	573.5217
0.02881	1.16249	740.0243	859.5192	4.37107	2.51E-17	4.37107	594.0844	2656.302
0.04929	1.10145	5003.721	5504.266	-1.08245	0.09606	0.92383	5898.998	5451.481
1	1	19.37206	23.66454	1	1	1	16.9515	33.45617
0.77969	1.08449	161.1347	182.9829	-1.16267	0.53186	0.86009	155.1164	132.9836
0.17718	0.83888	2214.211	1846.242	-1.49231	3.66E-13	0.6701	2131.493	1427.507
0.52504	0.95103	482.2449	459.3231	-1.16574	0.18732	0.85783	453.5343	389.6514
0.2484	1.07144	867.6772	931.1271	-1.00348	0.96686	0.99653	853.8359	848.0608
1	1	18.11052	23.86589	1	1	1	17.80617	35.33029
0.83138	1.01511	1036.371	1051.267	1.97935	2.47E-35	1.97935	1444.938	2857.567
0.68721	1.02448	1106.261	1131.974	1.12833	0.02875	1.12833	1043.216	1176.438
0.33834	1.05783	3034.692	3215.74	-1.06579	0.3654	0.93828	3326.436	3118.84
0.67197	1.6387	33.73984	46.00887	2.25162	0.38893	2.25162	25.66399	57.95403
0.91732	1.02708	193.9966	201.7663	-1.61683	0.36457	0.61849	112.8307	72.96048
0.64043	0.90778	1819.874	1654.968	-4.28701	6.68E-41	0.23326	1209.159	282.5121
0.71521	0.97977	5957.848	5832.612	1.28593	0.00014	1.28593	5923.407	7615.446
0.90949	1.0121	1485.125	1513.998	-1.15246	0.13672	0.86771	1502.962	1302.035
0.22333	0.91307	529.0098	482.932	1.04314	0.70436	1.04314	431.2105	449.2476
0.92416	1.05228	67.70857	69.32105	-1.44949	0.66739	0.6899	49.40011	33.6715
0.78945	1.02492	770.014	784.3272	1.00245	0.97018	1.00245	722.3279	724.3045
0.38265	0.93353	2523.794	2355.463	1.12486	0.08785	1.12486	2214.348	2497.223
0.34826	1.07207	9114.383	9859.301	-1.09253	0.16905	0.91531	9132.566	8367.836
0.32811	1.0907	4342.174	4748.662	-2.43404	0	0.41084	4566.771	1876.428
0.37558	0.84125	449.8496	369.7351	1.12672	0.4243	1.12672	392.3082	446.848
0.49368	0.95539	2532.211	2419.847	1.04726	0.2795	1.04726	2158.925	2260.959
0.23697	0.83123	1285.665	1091.307	-1.58561	4.09E-06	0.63067	797.1435	504.4678
0.51897	1.18914	129.256	154.6555	1.25776	0.26236	1.25776	178.5547	224.2185
0.27197	0.95399	9223.448	8792.803	-8.4315	1.36E-34	0.1186	9065.23	1046.345
0.10624	1.0847	3477.646	3777.094	1.02613	0.68819	1.02613	3941.438	4049.751
0.93711	1.00568	481.1932	484.0541	-1.15883	0.1443	0.86294	535.6625	460.6561
0.68872	0.94224	3854.655	3611.469	1.46501	0.00201	1.46501	3851.053	5630.782
0.51456	0.91585	281.4636	258.3716	-1.12068	0.39482	0.89232	277.9247	248.3572
0.75919	1.02541	1080.834	1104.734	1.01466	0.85639	1.01466	1234.172	1256.863

0.65136	0.67293	49.53078	32.92328	-1.02543	0.97468	0.9752	58.72467	66.39474
0.72615	1.04868	266.7853	278.3245	1.03224	0.82732	1.03224	238.8245	246.079
0.13503	0.71427	257.1622	178.6179	1.5261	0.0337	1.5261	172.0141	260.9013
0.24385	1.10374	2593.577	2855.496	1.27907	0.00112	1.27907	2362.553	3027.279
0.07087	1.15418	6093.467	7044.481	-1.5073	1.13E-06	0.66344	7430.26	4893.655
0.36734	1.05763	1418.817	1497.164	1.03969	0.4625	1.03969	1876.926	1953.507
0.8839	0.98167	316.7828	310.5125	-1.01691	0.8889	0.98337	351.1321	345.3127
0.62525	1.03689	2374.702	2449.563	-1.05823	0.20876	0.94497	4578.665	4326.311
0.03505	1.12046	4043.913	4531.893	-1.64888	1.08E-14	0.60647	4138.632	2504.945
0.31336	1.06373	3153.225	3351.127	-1.02014	0.75165	0.98025	3180.539	3120.761
0.77634	1.02149	2815.072	2911.01	-1.03936	0.52785	0.96213	2690.308	2580.92
0.81563	1.02935	351.9023	360.2093	-1.023	0.81675	0.97752	416.3303	406.4105
0.63261	1.04172	900.4111	940.6759	1.08281	0.1654	1.08281	913.544	988.7161
0.11569	1.10541	18714.57	20696.93	1.25127	0.0049	1.25127	18965.36	23790.51
0.80377	0.98374	633.942	622.9817	-1.14077	0.08578	0.8766	681.2415	596.2067
0.98051	1.02166	44.83987	49.50842	-1.03831	0.97696	0.9631	29.57552	32.22593
0.02488	0.76067	673.8657	507.2899	-1.4556	0.00041	0.687	631.2156	435.629
0.82352	0.98078	2693.584	2669.284	-1.0387	0.64515	0.96274	2590.849	2486.32
0.18649	1.17356	305.4222	357.9364	1.04615	0.78005	1.04615	308.8709	323.3565
0.77945	0.97505	5349.873	5254.606	-1.09781	0.1396	0.91091	4805.765	4379.703
0.32214	1.08584	1635.353	1768.818	1.16125	0.02839	1.16125	1865.273	2178.375
0.22565	0.86089	2275.291	1955.864	1.02409	0.83354	1.02409	2161.23	2205.338
0.64879	0.95369	1317.383	1251.092	1.13878	0.17444	1.13878	1205.55	1383.396
0.90556	1.01114	335.1956	339.2502	-1.13968	0.2954	0.87744	368.5816	323.4174
0.45217	0.82675	634.0232	535.7261	-2.41236	9.17E-08	0.41453	396.8755	163.5447
0.3533	1.05883	1041.721	1105.883	1.28534	6.01E-07	1.28534	1106.508	1422.213
0.44504	1.05928	673.1705	714.434	1.13692	0.18953	1.13692	628.9572	712.323
0.46492	0.95123	906.7352	860.0056	-1.19897	0.0104	0.83405	830.2327	693.3507
0.71364	1.04859	1174.813	1241.705	-1.48054	1.67E-09	0.67543	1365.857	921.0876
0.37461	0.96202	1880.725	1809.615	-1.14149	0.02364	0.87605	2157.417	1888.785
0.79816	1.02817	505.2875	515.9446	1.26075	0.02882	1.26075	560.3565	708.8683
0.00022	0.64488	2689.144	1709.727	1.89442	8.27E-18	1.89442	2090.004	3967.562
0.83872	1.0136	8124.523	8203.168	1.06999	0.25367	1.06999	7624.611	8164.854
0.00115	0.78576	2886.66	2269.937	1.53744	3.11E-06	1.53744	2153.929	3321.645
0.5715	1.11058	149.1078	165.9274	-1.41047	0.14414	0.70898	191.538	136.2923
0.91747	1.08325	41.84047	46.66151	1.29932	0.81413	1.29932	31.03601	40.64648
0.02221	1.22805	13154.46	16041.94	-2.57001	6.63E-10	0.3891	18518.84	6978.902
0.00116	0.76214	707.3897	537.2193	-1.1724	0.07004	0.85295	622.3243	529.5088
0.03804	1.42528	14848.19	20600.68	-3.69588	2.92E-12	0.27057	27460.72	6946.227
0.00108	1.15504	3891.397	4495.216	1.11204	0.10315	1.11204	4308.575	4787.962
0.2857	1.05299	2192.299	2305.922	-1.05279	0.32208	0.94985	2288.416	2171.039
0.98799	0.99699	328.7588	317.2249	1.33447	0.01248	1.33447	301.169	401.0066
0.53106	1.04566	2467.871	2598.103	-1.20929	0.00542	0.82693	2635.819	2180.909
0.5342	0.95407	491.9589	468.9451	1.02371	0.81394	1.02371	516.8905	530.9201
0.02863	1.12203	1489.347	1672.027	-1.10925	0.16215	0.90151	1780.866	1595.734
0.93214	1.03079	112.436	118.0473	1.03668	0.76828	1.03668	361.5222	376.4349
0.01233	0.82802	4656.915	3872.002	1.2819	0.00231	1.2819	5205.308	6659.296
0.30107	1.20262	161.1142	193.5254	1.23822	0.36875	1.23822	161.9345	198.315
0.01868	1.20625	1086.117	1312.055	-1.00265	0.95725	0.99736	1517.469	1514.369
0.15912	0.86784	536.9471	463.4101	-1.07027	0.51245	0.93435	495.264	461.273
0.08622	1.10009	11432.28	12571.75	-1.46363	0.00034	0.68323	16200.94	10944.41
0.35066	0.91793	1567.193	1443.975	-1.64179	1.52E-09	0.60909	1418.047	865.3931

0.11672	0.83995	7604.921	6436.382	-17.93478	0	0.05576	6816.917	378.6001
0.95313	0.99454	380.8948	379.4791	1.0109	0.93009	1.0109	387.1503	390.824
0.26816	1.09863	959.5408	1051.421	1.36904	0.00017	1.36904	925.368	1265.214
0.01917	0.66509	596.3217	386.448	2.35726	1.04E-11	2.35726	403.7107	948.5176
0.82915	1.24546	33.08813	41.82777	1.92282	0.5529	1.92282	28.23138	52.66901
0.00478	1.26703	2853.22	3621.962	-1.57517	0.00119	0.63485	4748.792	2943.799
0.1879	0.92896	2339.325	2169.781	1.23251	1.52E-06	1.23251	2121.179	2614.345
0.97755	1.01014	109.8258	110.3504	1.06344	0.85338	1.06344	112.7731	120.1435
0.14081	1.09716	6040.018	6620.292	-1.26488	7.25E-07	0.79059	7053.672	5570.536
0.11117	1.10993	2150.573	2394.742	1.41857	8.90E-08	1.41857	1815.724	2570.637
0.59339	1.0822	294.2572	315.124	1.00564	0.96238	1.00564	317.7507	319.0184
0.00006	0.71704	1512.489	1084.243	-1.42529	0.00008	0.70161	1213.065	847.454
0.00548	0.87123	2282.125	1988.385	-1.3411	1.04E-06	0.74566	2009.084	1498.206
0.00004	1.45096	540.1122	780.5238	2.2795	5.14E-16	2.2795	466.058	1067.646
0.17798	0.86559	483.5018	415.9341	1.05724	0.55935	1.05724	400.2556	423.5768
0.64434	0.91968	269.394	248.1827	1.13307	0.3011	1.13307	325.1225	369.2203
0.03666	0.85188	3974.702	3345.481	-1.8737	1.63E-13	0.5337	2415.487	1288.674
0.20728	0.81797	780.0338	644.869	-1.32313	0.0387	0.75578	534.8649	407.3859
0.14285	1.07964	824.3608	889.7854	1.12392	0.1101	1.12392	919.5918	1032.233
0.05642	1.14202	26483.68	30415.74	-1.02	0.77696	0.98039	29145.02	28558.14
0.87692	1.01167	867.8739	874.3239	1.09172	0.15015	1.09172	781.3203	853.3682
0.60794	0.94693	598.3002	570.1846	-1.12128	0.16408	0.89184	1067.459	948.2301
0.89285	0.95007	109.2799	105.4388	-1.26619	0.66514	0.78977	81.92912	63.57758
0.82422	1.05695	141.6917	148.4989	-1.15129	0.69371	0.86859	146.7899	123.6722
0.27693	1.06334	2298.228	2449.932	1.12332	0.05601	1.12332	3650.707	4098.388
0.95111	0.95199	43.8446	43.03445	-1.29619	0.74815	0.77149	53.36839	41.37498
0.99364	0.99604	57.14513	56.81706	-1.51345	0.54745	0.66074	67.08566	43.55816
0.02041	0.66123	361.6196	234.8388	1.34199	0.0156	1.34199	261.5107	351.5453
0.23039	0.87879	1364.78	1207.949	-1.22258	0.02451	0.81794	1672.365	1371.648
0.87069	0.98903	44122.66	43854.17	-1.29293	3.03E-07	0.77344	47002.66	36334.46
0.3117	1.07056	11987.11	12760.96	-1.37901	0.00009	0.72516	13830.11	9967.273
0.15581	1.11854	2789.555	3133.611	-1.24357	0.00304	0.80413	3150.408	2529.78
0.65318	1.05301	3845.741	4049.622	1.03672	0.487	1.03672	6075.186	6297.069
0.12714	0.93038	2253.5	2095.419	1.0074	0.89698	1.0074	2232.455	2246.366
0.97871	0.97688	47.97154	45.69181	-1.10813	0.80379	0.90242	88.22986	79.37469
0.77782	0.93436	146.1747	135.9819	-1.22469	0.57179	0.81653	125.7307	102.2905
0.61712	0.96141	2838.253	2732.269	1.5887	2.00E-20	1.5887	2554.261	4057.969
0.76273	1.0256	2118.242	2160.117	-1.05731	0.31047	0.9458	2355.839	2232.357
0.87835	1.21405	29.64223	37.7308	1.4652	0.67022	1.4652	43.04572	67.41631
0.02701	0.78584	9586.711	7524.167	1.40935	1.29E-07	1.40935	7927.055	11176.77
0.67268	0.98085	5076.686	4983.848	-1.08555	0.13442	0.92119	4328.797	3989.731
0.37441	0.84835	595.9064	514.4578	-1.98013	0.00957	0.50502	394.5293	201.9018
0.01568	1.16047	875.2689	1015.102	1.84896	9.40E-12	1.84896	792.739	1465.403
0.64502	1.02544	1521.313	1561.801	1.0163	0.8013	1.0163	1618.896	1645.3
0.61976	0.95152	469.7833	444.8935	-1.15405	0.15482	0.86652	458.3673	397.0909
0.20839	1.06638	3277.975	3504.016	-1.00724	0.90943	0.99281	3650.212	3639.244
0.21783	1.10493	571.9728	631.7546	-1.09526	0.06927	0.91302	1138.105	1038.955
0.71139	0.96118	341.8075	327.5877	-1.09574	0.57388	0.91263	282.2731	255.8695
0.13718	1.08796	11116.65	12162.07	-1.01833	0.77675	0.982	11842.21	11597.6
0.86632	1.01782	391.8445	398.215	1.29368	0.00502	1.29368	488.2777	633.4422
0.70943	1.03686	611.3131	637.5461	-1.03793	0.61754	0.96346	626.7026	604.354
0.14681	1.12132	740.5233	828.8097	1.62803	1.46E-09	1.62803	659.8747	1072.46

0.59291	1.16567	32099.49	35288.54	-14.15023	1.70E-31	0.07067	47090.09	3221.843
0.03155	1.20884	1295.651	1565.852	-2.65504	2.45E-13	0.37664	1218.839	458.9627
0.4192	1.04223	1132.023	1180.756	1.10428	0.15001	1.10428	1269.047	1397.829
0.84178	0.94471	131.4937	122.6111	1.01225	0.97791	1.01225	94.29417	94.07981
0.05845	1.08454	2801.528	3037.899	-1.08646	0.05755	0.92042	3293.856	3030.479
1	1	18.71223	23.14127	1	1	1	18.63607	30.80154
0.2233	0.857	296.4157	253.2056	1.03943	0.80242	1.03943	297.2286	307.2468
0.812	0.70394	28.67828	23.21533	1	1	1	17.9603	36.13946
0.4706	1.04416	10660.96	11099.13	-1.03298	0.44918	0.96807	10732.8	10385.84
0.94376	1.0936	25.32603	29.03153	-1.32322	0.74867	0.75573	49.8224	38.38512
0.89958	1.01426	269.2853	273.1053	1.07937	0.55844	1.07937	233.2893	251.8471
0.69947	0.94815	2886.016	2761.35	-1.71846	3.91E-14	0.58192	3386.982	1970.753
0.35666	0.77468	8366.865	6264.61	-6.88662	0	0.14521	6060.925	866.6614
0.00322	0.79749	4006.906	3196.082	-1.11323	0.01577	0.89828	3678.784	3305.267
0.61057	0.91879	610.0591	567.3708	-1.14114	0.2294	0.87632	476.6786	416.2965
0.6426	0.96051	4370.497	4244.174	-1.13672	0.07544	0.87973	3801.108	3342.534
0.01424	1.14492	1437.824	1644.733	1.03095	0.54812	1.03095	1463.74	1508.913
0.01109	1.16445	2645.501	3078.798	1.25025	0.02214	1.25025	2762.845	3463.123
0.44107	1.05225	708.941	744.8111	-1.11906	0.05995	0.89361	795.9551	711.1785
0.49782	0.91996	251.3204	231.1467	-1.12383	0.52269	0.88982	251.6881	223.8108
0.86985	1.13689	35.31662	40.01413	1.00634	0.99343	1.00634	43.95852	45.70869
0.84073	0.99116	2334.871	2314.115	1.2089	0.0525	1.2089	2345.741	2819.926
0.48986	0.73047	118.074	82.46719	1.45256	0.31171	1.45256	76.4026	111.0778
0.77981	1.0487	227.4112	236.5443	1.04954	0.80166	1.04954	199.5635	208.3015
0.99354	1.00202	177.4762	176.2145	-1.01136	0.92854	0.98876	344.4542	339.4677
0.2371	0.78561	257.2068	205.9719	-1.56341	0.1543	0.63963	166.9256	106.6557
0.00386	1.18302	2118.387	2508.637	-1.40677	0.00047	0.71085	2646.197	1873.583
0.10061	0.82694	7848.925	6488.226	1.13124	0.28834	1.13124	7049.528	7977.432
0.67235	0.93182	281.6505	265.7294	1.06529	0.65067	1.06529	243.9072	259.6215
0.96511	0.99597	3562.66	3566.744	1.56778	1.75E-18	1.56778	3499.583	5482.239
0.65468	1.02493	3602.99	3697.496	-1.20362	0.00261	0.83083	3177.209	2637.967
0.95732	0.95939	44.52847	42.25806	-1.24934	0.79533	0.80042	47.72477	38.16321
0.49769	1.14337	362.8262	402.6431	1.98477	4.56E-12	1.98477	290.507	577.2567
0.31374	1.14155	355.2661	409.0645	1.11671	0.42743	1.11671	334.5233	370.9484
0.04358	1.14414	784.616	898.6575	1.29734	0.00004	1.29734	660.7625	857.006
0.06643	1.10048	1449.816	1598.163	1.05839	0.26023	1.05839	1540.211	1630.118
0.70875	1.07643	162.1131	174.0904	1.02222	0.91411	1.02222	179.376	183.4209
0.13331	1.07707	2287.42	2469.371	-1.01345	0.79047	0.98673	3477.697	3439.749
0.08888	0.85915	1293.676	1111.135	-1.00933	0.892	0.99076	1401.021	1388.467
0.95927	0.95449	38.46771	36.81014	1	1	1	26.22152	30.04672
0.70078	1.01868	3156.583	3225.264	-1.15885	0.01519	0.86293	3064.557	2638.558
0.07619	0.90677	47441.81	43076.19	1.04555	0.28017	1.04555	55918.67	58464.49
0.07392	1.09753	1271.284	1393.505	1.12282	0.06438	1.12282	1505.526	1691.13
0.2973	0.79752	212.5129	167.8956	-1.37741	0.12985	0.726	202.6018	147.1202
0.53147	1.04577	538.0253	563.3841	-1.16454	0.11265	0.85871	561.7642	480.9397
0.06528	0.81096	639.1233	522.2691	1.6129	0.00032	1.6129	545.2443	875.2463
0.51341	1.05169	3850.67	4049.192	-1.14236	0.06748	0.87538	3644.669	3185.849
0.48441	0.88221	206.5542	182.3004	-1.15383	0.55699	0.86668	224.2279	198.1774
0.34583	0.87693	5295.41	4639.081	1.05228	0.74754	1.05228	5015.646	5229.902
0.42864	1.05284	1832.932	1939.466	-1.01558	0.83401	0.98466	1869.385	1829.562
0.83197	1.01973	392.1666	399.0015	-1.04021	0.75238	0.96135	409.1713	392.0641
0.84498	0.96756	436.2372	427.8038	-1.39338	0.05279	0.71768	376.8051	274.0992

0.35216	1.24602	140.8656	175.3044	1.25072	0.29335	1.25072	188.3201	232.9943
0.40831	1.05343	1581.521	1663.507	-1.11861	0.02543	0.89397	2126.484	1899.446
0.32348	1.06912	7775.724	8343.906	-1.29912	7.89E-06	0.76975	7163.325	5528.592
0.3932	1.06668	404.4072	431.4337	2.00632	5.50E-15	2.00632	379.8387	763.5308
0.77824	1.03179	286.7273	295.5565	1.01547	0.94571	1.01547	258.6971	259.7812
0.9087	1.0102	410.4562	415.387	-1.06549	0.55249	0.93854	689.1096	643.4758
0.48286	1.04099	1542.613	1601.673	-1.12678	0.03023	0.88748	1694.662	1502.644
0.84008	0.97259	368.994	362.9662	1.0903	0.44324	1.0903	566.2672	613.7177
0.31887	1.06182	1079.08	1143.459	1.0599	0.26317	1.0599	1106.437	1172.37
0.04524	0.86126	12697.74	10940.21	1.10822	0.1224	1.10822	11818.12	13109.7
0.49606	1.12196	172.5671	193.4695	-1.09072	0.7265	0.91682	184.9053	167.8692
0.46323	0.89312	431.3242	378.2587	1.09396	0.28541	1.09396	445.4225	487.4471
0.02228	0.84773	1568.471	1323.723	2.1675	1.16E-38	2.1675	1499.356	3252.729
0.98159	0.99822	1758.785	1786.793	-1.14737	0.05648	0.87156	1992.037	1729.7
0.00863	0.59901	323.8863	189.5856	-1.95542	0.00643	0.5114	265.8121	136.0732
0.50072	0.91353	5845.965	5342.615	-1.55457	0.00222	0.64326	5725.049	3598.597
0.15335	0.73827	1961.401	1448.092	-1.85129	9.02E-07	0.54016	925.3395	501.7467
0.68903	1.02617	5469.945	5618.857	1.35854	3.83E-12	1.35854	5467.369	7428.556
0.81129	1.02649	1371.601	1442.159	-1.13485	0.05153	0.88117	1682.193	1479.703
0.77989	0.96502	1069.431	1042.563	-1.41658	8.06E-09	0.70592	941.0337	664.0452
0.78807	0.98221	1317.023	1297.156	-1.28255	0.00466	0.7797	1475.687	1149.218
0.08542	0.89585	3785.272	3385.766	-1.021	0.8146	0.97943	2970.912	2901.479
0.22363	1.10047	665.5364	734.6804	1.0836	0.55242	1.0836	655.5867	704.8228
0.71456	1.16066	76.96754	89.14869	1.27078	0.56377	1.27078	82.40677	103.496
0.98463	1.00159	9258.063	9237.714	1.04013	0.51071	1.04013	13149.31	13683.92
3.28E-14	0.58847	4162.269	2455.824	-1.61909	3.52E-24	0.61763	3376.627	2085.067
0.94927	1.01241	195.8392	198.574	-1.18093	0.53303	0.84679	175.0082	148.2314
0.9484	0.98262	161.2338	162.7802	-1.04673	0.81536	0.95536	210.5086	201.9302
0.60654	0.95213	3984.334	3835.244	-1.11291	0.26078	0.89855	3846.85	3455.096
0.93652	0.90035	30.16608	27.51934	1.95073	0.50372	1.95073	36.68766	74.18752
0.83296	1.19516	31.08342	36.84377	1.04796	0.95858	1.04796	35.09965	39.99672
0.71323	1.02566	1736.949	1770.67	1.06713	0.18003	1.06713	1882.365	2009.625
0.73184	0.96554	518.7626	497.9036	-1.05751	0.57927	0.94562	481.5915	454.3237
0.99481	0.99971	1508.616	1507.832	-1.00929	0.87636	0.99079	1606.69	1590.702
0.4302	0.94704	1978.87	1874.78	-1.18794	0.00421	0.84179	1637.104	1378.961
0.6632	0.95357	3851.063	3710.629	-1.16864	0.03401	0.8557	4041.81	3453.64
0.76815	1.02256	1307.094	1331.294	-1.06425	0.53654	0.93963	1048.7	987.5022
0.89466	0.91647	54.28112	50.9518	-1.18475	0.81708	0.84406	51.53642	43.52209
0.58554	0.93532	398.6456	369.7545	-1.15369	0.21429	0.86678	339.3106	294.5151
0.01957	1.12618	6100.592	6857.797	-1.45222	8.95E-18	0.6886	7249.951	4993.763
0.19339	1.14705	383.2767	438.0507	1.13894	0.12776	1.13894	436.5453	497.7122
0.44775	1.07012	338.0945	362.0167	-1.05829	0.6995	0.94492	313.3074	294.251
0.56881	0.77826	108.454	81.18745	-1.19008	0.66913	0.84028	89.54182	75.46899
0.79948	1.01544	656.1183	666.1841	-1.03999	0.59682	0.96155	592.2025	569.9902
0.04832	1.08364	6685.667	7245.355	-1.01461	0.75124	0.9856	9481.128	9333.217
0.22437	0.88823	640.9055	566.0709	-1.22188	0.03845	0.81841	601.2659	493.6067
0.05528	1.14526	697.992	797.8564	1.30927	0.00146	1.30927	660.4029	862.4764
0.35688	1.03824	4580.609	4755.491	-1.1038	0.02717	0.90596	4938.584	4475.474
0.08287	1.11628	908.6683	1015.139	-1.03027	0.68829	0.97062	902.1833	877.7084
0.12028	1.07664	1467.856	1579.314	1.0484	0.30718	1.0484	2430.508	2549
0.5208	0.94217	1421.385	1351.165	-1.02166	0.69281	0.97879	1152.046	1127.026
0.02034	1.29903	358.6522	466.5281	1.17716	0.3104	1.17716	440.9654	512.4346

0.97378	0.99463	182.4267	181.4483	1.05887	0.74926	1.05887	203.3311	214.9718
0.37751	1.04271	4833.486	5048.139	-1.06202	0.35025	0.9416	5007.202	4704.057
0.74098	0.89933	114.293	104.112	-1.68894	0.25693	0.59209	110.2978	66.37387
0.37852	1.04701	1334.342	1396.701	1.08242	0.15896	1.08242	2773.752	3004.052
0.32712	1.13359	250.2325	284.5328	-1.10657	0.40505	0.90369	284.5151	256.9786
0.02687	1.1246	1161.293	1304.619	-1.03816	0.59127	0.96324	1419.866	1366.314
0.29627	0.81427	253.7295	203.613	1.02019	0.90148	1.02019	204.7176	208.8417
0.45804	0.88546	500.9963	434.7858	-1.18542	0.19085	0.84358	444.4587	376.5513
0.01188	0.73563	6972.415	5123.573	1.06265	0.60088	1.06265	6445.867	6831.039
0.93227	1.00547	967.6565	970.23	1.00527	0.93623	1.00527	1048.276	1052.72
0.55894	0.87194	234.4356	198.479	1.28148	0.30745	1.28148	177.1713	223.0006
0.43776	0.83962	6142.387	4953.273	-2.81426	9.28E-20	0.35533	4306.974	1513.238
0.05382	1.13644	14477.87	16503.54	-1.18004	0.02785	0.84743	15538.13	13157.06
0.02289	1.12898	1366.687	1541.53	1.0229	0.69856	1.0229	2385.042	2447.714
0.88318	0.87936	56.72141	44.99917	1.81257	0.38032	1.81257	44.33006	79.54951
0.07033	1.20683	382.004	463.2521	-1.081	0.51223	0.92507	393.0986	362.8248
0.62213	0.92226	11381.85	10173.49	-2.23837	1.34E-29	0.44675	8605.271	3830.852
0.62804	0.93938	19334.21	18292.79	1.00183	0.98462	1.00183	20110.56	20181.17
0.83963	0.95471	221.7758	219.5125	-1.00419	0.9758	0.99582	259.8452	258.7077
0.17457	1.06271	2877.835	3060.618	-1.04238	0.37508	0.95935	2780.961	2667.063
0.97473	0.99802	7908.539	7936.001	-1.10351	0.17366	0.9062	7827.528	7100.315
0.00491	1.19057	871.1672	1035.161	1.33961	0.00036	1.33961	857.4283	1154.2
0.94131	0.94594	45.61131	44.43089	1.06586	0.94198	1.06586	36.71963	39.30831
0.78848	1.0722	118.2431	126.1171	1.09047	0.67853	1.09047	218.2551	234.7407
0.58491	1.05903	684.959	730.1749	-1.1715	0.33535	0.85361	722.8365	617.0205
0.91908	0.98447	2262.577	2197.868	-2.19408	1.55E-23	0.45577	2078.115	941.6326
0.35037	1.08532	1081.54	1166.197	-1.01665	0.79571	0.98362	1311.475	1291.103
1	1	17.90155	21.97241	1	1	1	22.87186	33.32461
0.41512	0.89736	6168.453	5559.026	1.50207	0.00175	1.50207	5494.575	8333.064
0.23404	1.11666	413.561	463.2922	1.03232	0.70146	1.03232	426.7873	440.5974
0.86749	0.89423	49.30749	43.94328	1.3756	0.66437	1.3756	46.9021	62.9341
0.11634	1.11143	575.833	640.5275	1.26533	0.02302	1.26533	462.6636	582.973
0.75505	0.97081	848.0721	818.574	-1.28146	0.00043	0.78036	697.5537	544.6757
0.19697	1.09172	1508.63	1642.344	-1.06101	0.21977	0.9425	1894.949	1784.594
0.60129	1.02997	2961.896	3035.761	1.34484	2.39E-09	1.34484	3530.525	4746.103
0.81225	0.77897	38.76475	28.90916	1.04402	0.97091	1.04402	28.92479	33.72368
0.62836	1.08177	338.0994	357.0094	-1.11621	0.43906	0.89589	458.8812	412.5414
0.27453	0.943	3954.984	3739.994	-1.16394	0.00043	0.85915	3486.459	2994.296
0.81971	1.10903	85.62377	94.81844	1.037	0.83414	1.037	245.4471	252.8417
0.81989	1.01471	4934.855	5013.714	-1.02852	0.64797	0.97227	3806.975	3712.252
0.71593	0.96748	794.3548	773.3145	-1.13988	0.15508	0.87729	772.6523	675.8361
0.47478	1.09251	241.6668	264.4614	1.05845	0.77271	1.05845	203.1565	213.843
0.95484	1.00712	1323.69	1323.442	1.24575	0.09585	1.24575	1132.913	1430.014
0.70288	1.0235	1369.259	1404.639	1.13157	0.00792	1.13157	1898.16	2148.432
0.00047	0.79347	1731.442	1374.401	-1.20099	0.03213	0.83265	1375.335	1139.24
0.77016	0.95293	443.4155	431.9485	1.06102	0.75137	1.06102	355.8656	370.0515
0.89729	1.01671	420.6621	422.9547	-3.9804	1.51E-18	0.25123	452.1577	113.8974
0.69763	1.0495	297.1501	311.5772	1.10854	0.35044	1.10854	349.5112	386.9595
0.04628	1.1001	1039.982	1143.893	-1.03434	0.68361	0.9668	920.0136	886.1054
0.99199	1.00091	2450.49	2467.622	-1.14855	0.00177	0.87066	2117.696	1843.806
0.48566	0.89585	1213.803	1076.495	1.34754	0.01683	1.34754	1127.55	1531.563
0.76846	0.95639	708.5968	668.492	1.50565	0.00003	1.50565	615.3854	931.1859

0.34312	1.05963	976.4747	1037.146	1.11106	0.08293	1.11106	990.3781	1099.525
0.54159	0.89702	433.4961	398.0521	-2.30511	7.48E-06	0.43382	363.4991	157.8268
0.39314	0.915	3052.563	2776.178	-1.7911	1.24E-08	0.55832	2805.163	1559.739
0.00006	0.65938	2039.105	1330.771	-1.17188	0.00575	0.85333	1496.72	1277.667
0.74365	0.96366	468.3043	454.6952	-1.13321	0.28574	0.88245	552.4186	490.7838
0.00221	0.75755	30232.57	22868.71	1.04811	0.59231	1.04811	26693.52	28015.39
0.78714	1.01548	2518.203	2566.965	-1.07609	0.176	0.92929	2091.638	1945.56
0.15712	1.16133	166350	191878.7	-1.02891	0.77356	0.97191	209626.8	204666
0.03472	0.90846	1875.865	1703.809	1.04504	0.48731	1.04504	1791.74	1872.547
0.05718	0.83986	525.4769	439.7192	-1.19525	0.02674	0.83665	480.5956	402.0088
0.57329	1.33881	62.87508	81.55278	1.01206	0.98404	1.01206	52.57792	53.17635
0.46668	0.82886	10547.73	8475.298	-3.47043	0	0.28815	7587.239	2192.908
0.83138	1.01008	1968.117	1986.523	1.01216	0.78527	1.01216	1952.298	1976.412
0.18271	1.09589	1381.854	1518.253	-2.5696	1.62E-23	0.38917	911.2467	355.37
0.88142	0.96748	167.7428	163.7733	-1.32478	0.30999	0.75484	197.3935	151.7325
0.9925	1.00203	162.1521	161.1798	-1.05777	0.8278	0.94538	152.4506	144.0249
0.03763	1.21307	11121.55	13402.75	-2.45663	8.89E-11	0.40706	15873.27	6265.472
0.69703	1.07722	212.5486	225.9717	-1.00919	0.97046	0.99089	197.6262	199.2176
0.14181	1.08156	1161.739	1258.016	-1.04516	0.47333	0.95679	1230.037	1175.353
0.7433	1.04435	370.8691	383.5281	1.00174	0.98104	1.00174	566.5666	567.1705
0.0003	0.58839	5409.843	3135.699	-1.15358	0.07254	0.86687	3286.246	2853.551
0.04601	0.82251	438.8897	362.1608	1.01869	0.85933	1.01869	530.5282	542.9338
0.43495	1.05896	1228.026	1297.831	-1.05167	0.50846	0.95087	1254.994	1197.085
0.00019	1.186	2111.513	2505.382	1.21967	0.00065	1.21967	2612.932	3196.316
0.68065	1.05892	276.7397	294.5693	-1.1086	0.54238	0.90204	278.3903	249.1437
0.01237	1.16991	712.1669	834.291	-1.09309	0.28896	0.91484	945.8843	862.0764
0.67487	0.95253	477.9795	454.7187	1.00034	0.99759	1.00034	376.1972	377.0304
0.04131	0.71234	338.5866	243.8271	-1.88751	0.01767	0.5298	236.8414	127.4573
0.94725	1.00777	690.2603	700.9211	1.09058	0.28259	1.09058	509.4981	555.0474
0.99087	1.00477	84.0792	85.94649	-1.12108	0.7584	0.892	117.7505	103.8001
0.04562	0.77948	4176.263	3250.949	1.71377	0.00002	1.71377	3730.17	6485.302
0.77597	0.9405	161.7299	152.2411	-1.00656	0.97364	0.99348	159.3687	158.3375
0.0522	0.92023	25278.21	23256.25	-1.41752	1.44E-15	0.70546	23328.08	16458.44
0.88313	1.24174	20.7431	28.72958	1.42983	0.76097	1.42983	25.3517	35.40128
0.22064	0.85477	591.5197	499.467	-1.12138	0.10742	0.89176	724.4883	646.7977
0.77205	1.01943	602.6346	613.6624	-1.11385	0.38521	0.89779	578.9883	516.259
0.25955	1.25407	2279.441	2846.618	-2.7023	8.40E-08	0.37005	4199.902	1505.413
0.59166	1.04163	4197.925	4358.923	-1.1013	0.22382	0.90802	4058.158	3665.32
0.17896	0.91637	1909.135	1745.34	1.08067	0.11908	1.08067	1749.957	1892.073
0.72918	1.02444	1066.656	1095.236	1.09767	0.22673	1.09767	1030.282	1129.044
0.62265	1.02989	5612.598	5755.75	1.02911	0.56876	1.02911	5803.751	5972.818
0.93635	1.00487	1074.97	1080.865	1.07671	0.18311	1.07671	1047.519	1127.153
0.60535	1.02943	841.3661	866.6992	-1.04819	0.57906	0.95403	854.402	813.6118
0.57835	1.08049	1100.705	1203.421	-1.93679	7.67E-11	0.51632	1043.314	535.6838
0.90791	1.07993	58.5462	61.91209	1.04367	0.93757	1.04367	84.50529	84.64893
0.65354	1.0228	1022.873	1046.532	-1.01627	0.8035	0.98399	1052.766	1036.081
0.92016	1.02991	108.3274	111.8812	1.12967	0.78029	1.12967	88.01677	100.5583
0.35313	0.87953	391.2342	347.0815	-1.33573	0.08617	0.74865	321.4604	238.4643
0.52539	1.07433	430.5312	465.9091	1.39509	2.27E-06	1.39509	771.984	1075.081
0.00001	0.62162	3674.239	2268.553	1.1735	0.11137	1.1735	2912.673	3436.097
0.07777	1.10595	1878.335	2065.952	1.02826	0.54885	1.02826	2196.904	2257.123
0.59769	0.93673	516.9357	489.3851	-1.66004	2.57E-06	0.6024	445.0192	268.346

0.24761	0.83411	336.7282	278.0053	1.25304	0.10821	1.25304	244.3126	306.7148
0.63504	0.9622	2354.206	2278.672	1.04809	0.51984	1.04809	2141.789	2250.925
0.36303	1.0854	749.5894	809.6532	1.1075	0.07898	1.1075	759.627	841.5059
0.22779	1.35565	107.3332	146.4054	1.48311	0.06081	1.48311	126.6975	188.0347
0.20199	1.18703	357.7978	420.1479	1.11886	0.23671	1.11886	383.5551	428.7371
0.66682	1.04124	601.1694	622.8024	1.01814	0.80294	1.01814	557.2761	567.059
0.09754	1.21415	2681.528	3255.779	-1.78866	2.42E-20	0.55908	5028.029	2814.21
0.08504	1.13816	401.8212	457.315	1.03655	0.76355	1.03655	424.8361	437.8521
0.78688	0.95746	1066.372	1038.949	-1.49189	9.09E-09	0.67029	915.4756	613.3043
0.86945	0.97422	986.1312	970.9692	-2.05126	0.00005	0.48751	892.0202	434.8645
0.53495	0.9462	1516.699	1434.255	-1.12484	0.11323	0.88901	1237.771	1095.188
0.92534	0.92071	44.29332	41.1049	1.6913	0.60402	1.6913	28.90042	48.66282
0.23642	1.05692	1357.907	1435.721	1.26112	0.00152	1.26112	1454.203	1830.956
0.96711	1.00441	384.2692	384.301	1.44914	0.00001	1.44914	389.7142	565.0107
0.81371	1.04732	180.2304	190.4303	1.1033	0.61659	1.1033	168.1379	185.5837
0.33568	0.8667	311.2965	272.4663	-1.22795	0.19922	0.81437	262.286	214.3215
0.95505	1.00431	1105.419	1113.957	-1.12991	0.06521	0.88503	936.892	828.4984
0.89052	1.06104	69.35483	73.97659	-1.3663	0.69176	0.7319	57.93317	42.34293
0.2913	0.88098	4556.854	4060.324	1.30505	0.02632	1.30505	5245.204	6753.889
0.56968	0.95657	1115.885	1064.437	-1.17651	0.05284	0.84997	1554.43	1312.181
0.35796	0.92923	436.3453	405.4377	1.18667	0.38492	1.18667	501.3763	587.955
0.47826	0.96269	1853.346	1782.856	-1.06821	0.29745	0.93615	2675.83	2502.806
0.99123	0.99947	3243.938	3236.774	1.03449	0.51049	1.03449	3117.258	3219.243
0.96015	1.00531	432.6506	436.3819	-1.15457	0.22209	0.86612	367.3474	318.8204
0.56299	1.04876	1795.187	1844.201	1.11983	0.07635	1.11983	2365.495	2653.313
1	1	16.96172	24.00648	1	1	1	16.93478	29.85057
0.88768	0.99156	1461.802	1449.555	-1.14705	0.02269	0.8718	1070.333	933.9517
0.08222	0.75811	1022.775	782.1128	-1.54834	0.00036	0.64585	528.6933	343.5212
0.88262	0.98752	2253.596	2213.488	-1.01358	0.86343	0.9866	1718.853	1707.837
0.55787	0.96091	1570.348	1509.762	-1.40993	4.11E-09	0.70926	1536.409	1088.82
0.83425	0.9574	561.6845	548.236	-2.6013	9.12E-06	0.38442	317.9771	122.5254
1	1	18.71888	22.53016	1	1	1	17.88021	31.76221
0.19192	1.07307	3915.899	4215.621	1.11669	0.05016	1.11669	3792.181	4230.956
0.68985	1.02858	651.1635	671.0768	-1.18689	0.04343	0.84254	599.6071	504.2352
0.49142	1.05905	2142.63	2279.292	-1.04935	0.40401	0.95297	1908.922	1820.942
0.08232	0.39675	156.3248	59.05565	-1.20803	0.78247	0.82779	64.00885	54.38969
0.88399	0.9601	118.1147	113.0824	-1.34496	0.41214	0.74352	122.5863	90.97971
0.20098	1.23928	14265.05	17306.11	-2.6499	1.22E-15	0.37737	20487.11	7504.814
0.00145	0.77039	2796.539	2149.232	1.09728	0.28091	1.09728	2399.892	2638.36
0.05227	0.79923	5228.559	4192.182	-1.22528	0.00002	0.81614	4227.663	3450.522
0.66895	1.04086	435.4359	451.7258	1.12453	0.41918	1.12453	374.5619	416.936
0.03898	0.87253	809.1392	707.3536	-1.11011	0.21888	0.90081	635.9866	574.0719
0.35311	0.9625	4297.848	4136.708	1.06284	0.17892	1.06284	3988.415	4238.93
0.86836	1.03963	158.1069	166.5164	-1.13008	0.73342	0.8849	125.9808	111.7757
0.35409	0.95219	1330.372	1267.169	1.1367	0.00466	1.1367	1798.587	2044.514
0.89784	1.00763	963.8971	970.0678	-1.05437	0.36669	0.94843	943.0723	894.9249
0.76445	1.03143	356.5253	366.6525	-1.07238	0.62358	0.9325	349.1932	325.4166
0.10983	1.09186	1661.214	1810.979	1.09742	0.03304	1.09742	1778.267	1951.595
0.36942	1.04143	2468.153	2569.031	1.01738	0.76237	1.01738	4307.059	4367.719
0.91259	1.04001	125.6125	133.5576	-1.01547	0.93988	0.98477	165.3958	163.0601
0.0001	0.77811	1762.658	1369.94	-1.09376	0.29925	0.91428	1381.854	1265.364
0.53378	1.03593	2509.52	2591.213	1.03123	0.5938	1.03123	2518.293	2605.368

0.95699	1.00496	883.6343	888.9569	-2.4193	2.09E-15	0.41334	1044.149	432.5789
0.67513	0.94173	500.0996	476.5462	-1.13729	0.25003	0.87929	487.7528	430.8038
0.03586	0.83321	4195.744	3502.725	1.07975	0.4869	1.07975	5081.16	5462.012
0.16488	1.12557	3436.858	3732.981	-1.02314	0.66405	0.97739	4338.875	4255.755
0.05315	0.83036	454.6157	378.6908	-1.03858	0.8565	0.96286	392.3286	366.3012
0.95588	0.99354	1309.179	1306.242	-1.47063	4.40E-11	0.67998	1113.055	756.5808
0.46754	1.05723	1542.124	1634.334	1.64048	9.21E-26	1.64048	1385.578	2272.832
0.0829	1.1319	1087.871	1227.651	-1.00633	0.93455	0.99371	1260.934	1256.004
0.72099	0.89387	158.4027	135.7844	1.38817	0.23833	1.38817	163.1115	220.2959
0.49188	0.96745	2837.282	2743.844	1.05012	0.28641	1.05012	2113.627	2219.242
0.13501	1.2624	187.1264	236.0199	1.37296	0.00002	1.37296	469.6991	645.1716
0.54071	1.04125	8948.26	9304.946	-1.15336	0.01454	0.86703	8836.69	7694.501
0.48705	0.92062	9607.605	8827.984	2.70176	3.05E-21	2.70176	9211.716	25018.54
0.84001	0.94332	108.0382	102.3096	1.00107	0.9976	1.00107	121.8529	123.1832
0.09916	1.0905	11480.89	12515.89	-1.09927	0.03346	0.9097	11842.44	10767.59
0.00555	0.7319	3427.508	2492.863	1.16335	0.0883	1.16335	2991.409	3487.574
0.77884	0.98239	3832.836	3777.892	-1.12463	0.00568	0.88918	3841.078	3415.094
0.59857	0.934	366.5958	345.2729	-1.12018	0.3992	0.89271	330.2376	293.7113
0.94633	1.0305	62.0287	63.74033	1.44434	0.57254	1.44434	62.08846	97.03644
0.00007	0.63137	1741.05	1089.292	-1.21967	0.0069	0.81989	1331.677	1093.146
0.28141	0.83919	4893.176	4117.836	-2.00083	1.51E-42	0.49979	5316.775	2656.874
0.14193	1.09457	1719.017	1888.801	1.02028	0.78703	1.02028	1962.782	2005.236
0.10833	0.88568	994.9471	882.7897	-1.13829	0.11658	0.87851	882.6697	777.3777
0.04745	1.12229	1360.646	1524.031	1.00624	0.9113	1.00624	1305.155	1314.787
0.69868	1.03655	569.9695	593.5232	-1.20778	0.02865	0.82796	567.5692	469.2813
0.68226	1.02663	5872.141	6069.108	-1.04414	0.56154	0.95773	6140.981	5886.632
0.87478	1.01142	1020.22	1028.233	1.00241	0.96592	1.00241	1017.434	1019.202
0.7563	0.93483	159.5366	149.2047	1.39176	0.26019	1.39176	125.4699	172.7963
1	1	19.78476	26.55814	4.39327	0.13016	4.39327	17.60395	78.95712
0.09235	0.90631	2421.611	2192.221	-1.021	0.66783	0.97943	2047.198	2005.468
0.37859	0.8125	3829.036	3133.546	-1.46129	5.07E-13	0.68433	4592.042	3139.127
0.96118	0.98943	182.8118	180.3206	1.05872	0.72822	1.05872	183.1932	193.994
0.92101	1.04612	91.51055	97.40797	-1.05481	0.85963	0.94804	112.2288	106.6878
0.475	0.95895	1079.162	1036.777	-1.08799	0.31991	0.91913	1053.457	963.0079
0.3376	1.05017	1045.78	1098.704	-1.08687	0.11574	0.92007	1232.355	1133.18
0.80006	1.01562	985.5277	1002.383	-1.13535	0.03103	0.88079	972.671	857.3496
0.09673	0.88564	4267.813	3785.871	1.18338	0.00184	1.18338	3754.167	4445.944
0.32883	1.04472	6539.33	6823.521	-1.0257	0.57673	0.97494	8631.799	8408.021
0.83778	0.97578	297.0983	288.9081	-1.20772	0.28138	0.82801	287.1848	238.8489
0.05646	1.08706	1845.817	2006.877	1.07755	0.13861	1.07755	2342.2	2526.143
0.40911	1.0805	789.8995	847.8963	1.03747	0.55425	1.03747	885.2427	917.4194
0.90221	0.84926	29.55089	26.93715	1.07142	0.93622	1.07142	44.5042	48.12033
0.56764	0.94382	3493.511	3292.416	1.27196	0.002	1.27196	3229.886	4106.216
0.97791	1.00151	4914.587	4937.095	-1.17198	0.01921	0.85326	4488.048	3838.324
0.91576	0.94769	71.82835	67.62759	-1.24292	0.70191	0.80456	77.40508	63.67976
0.97073	1.03451	48.03582	52.993	1.30128	0.59506	1.30128	72.67825	93.97609
0.90389	0.98869	931.5858	913.8169	-1.01314	0.90723	0.98704	884.1041	879.0304
0.84514	1.011	854.6519	864.0101	1.11084	0.18724	1.11084	690.465	768.5908
0.9138	1.0119	1456.185	1491.642	-1.20311	0.00101	0.83118	1259.445	1045.836
0.9539	1.03195	64.74134	66.65721	1.04788	0.93381	1.04788	69.91233	72.79956
0.61353	1.07421	319.4684	347.0155	-1.29602	0.17177	0.7716	309.9015	241.14
0.96039	0.99053	255.4918	254.2036	-1.03707	0.85657	0.96426	302.8925	286.9578

0.84184	0.98509	1576.019	1550.717	1.30833	7.96E-08	1.30833	1450.799	1897.957
0.1845	0.84124	367.7659	311.8079	1.01426	0.945	1.01426	224.1436	230.2466
0.30455	1.13245	292.0424	332.2455	1.16118	0.2314	1.16118	317.0696	366.8057
0.68512	0.92027	280.4081	266.6972	1.18039	0.42876	1.18039	182.3624	215.2096
0.25325	1.23557	156.4184	192.9952	1.12912	0.55009	1.12912	154.5789	174.5335
0.96803	1.00227	2202.929	2204.68	-1.13879	0.04121	0.87812	2245.162	1977.639
0.0004	0.70417	7833.657	5507.946	1.56016	6.73E-16	1.56016	5946.202	9284.756
0.00702	0.75823	6735.353	5096.335	-1.02725	0.73985	0.97348	5371.655	5239.522
0.15979	0.90546	3580.82	3240.628	-1.23549	0.00002	0.80939	2900.333	2346.324
0.91385	0.98239	2222.094	2191.87	1.26811	0.10697	1.26811	2191.751	2784.357
0.63853	0.90839	204.8175	183.618	-1.2599	0.2837	0.79371	180.984	143.8348
0.35721	1.07287	972.0165	1041.92	-1.09381	0.21729	0.91424	910.6027	833.5637
0.40729	1.04178	3685.856	3839.821	-1.04229	0.48425	0.95943	3441.858	3305.803
0.67681	1.02477	1897.627	1936.848	-1.0847	0.10421	0.92191	1795.362	1656.612
0.54876	0.89845	2948.076	2632.409	-2.66908	4.36E-24	0.37466	2712.216	1012.941
0.06338	0.86964	844.7438	736.1871	-1.45	0.00069	0.68966	744.6681	510.6939
0.18786	1.06578	4085.44	4364.739	-1.25114	0.00001	0.79927	3690.294	2945.951
0.34593	1.05151	770.2112	809.8285	1.25102	0.00432	1.25102	771.9707	963.9788
0.16129	1.11618	664.3369	738.9981	1.02098	0.79018	1.02098	736.6051	753.7162
0.36274	1.0425	3037.425	3166.621	-1.24628	4.64E-07	0.80239	2629.407	2109.939
0.87662	1.01409	1615.842	1619.445	-1.08825	0.35	0.91891	2813.134	2563.837
0.81586	0.97607	4006.495	3914.023	1.81336	1.18E-07	1.81336	3887.267	7105.217
0.68401	1.03329	2578.381	2600.742	-1.03446	0.60309	0.96669	3504.866	3368.632
0.40773	1.09826	378.5188	413.6888	1.23794	0.02964	1.23794	433.8447	535.5608
0.00083	0.73402	4507.452	3307.025	-1.08979	0.16365	0.91761	3707.806	3403.213
0.70966	1.05865	291.0313	310.9061	-1.25527	0.09835	0.79664	359.7717	285.4872
0.06607	1.1167	1769.037	1977.11	-1.28987	0.00113	0.77527	2893.047	2244.524
0.53872	1.05279	1185.655	1240.176	1.06565	0.21824	1.06565	1327.56	1414.443
0.16953	0.92404	748.2694	691.2275	-1.27494	0.00658	0.78435	762.1145	599.499
0.33363	1.07247	874.6522	934.3932	1.0008	0.99203	1.0008	853.0276	855.9925
0.16008	0.93582	7342.65	6876.307	1.06919	0.18207	1.06919	10765.87	11520.22
0.29737	1.04367	5987.021	6248.58	1.03418	0.54976	1.03418	6039.162	6231.761
0.05168	1.49669	141.0371	209.5189	1.46515	0.2709	1.46515	141.4864	198.6137
0.02148	1.26675	9804.356	12401.2	-2.33814	4.20E-09	0.42769	17134.57	7095.289
0.00607	0.68758	17396.43	11877.77	1.05601	0.62625	1.05601	16869.96	17769.55
0.56871	1.10474	277.4299	300.3958	1.67671	5.81E-06	1.67671	231.0879	387.4895
0.54214	1.09958	1449.352	1618.599	-1.97217	1.04E-20	0.50706	1296.281	657.5634
0.16541	1.09795	5180.922	5668.1	-1.63893	4.94E-22	0.61016	5307.699	3238.669
0.02252	0.77006	360.632	278.5737	2.43738	1.08E-10	2.43738	283.8181	698.0461
0.00001	0.66199	3229.843	2112.623	1.03108	0.70181	1.03108	2390.355	2462.5
0.94908	1.02555	104.274	106.7579	1.14543	0.69516	1.14543	95.5535	110.1412
0.26264	1.05353	3511.615	3697.191	-1.05653	0.21881	0.9465	3631.152	3439.541
0.42412	1.05748	2064.913	2178.252	-1.00336	0.94467	0.99665	2273.655	2266.676
0.00517	1.18488	6233.549	7374.176	-1.6324	2.23E-06	0.6126	8220.26	4980.546
0.69162	0.94193	1096.99	1045.399	-1.53912	5.20E-06	0.64972	1198.38	774.5713
0.09256	1.10088	1034.562	1141.031	-1.13362	0.03252	0.88213	1492.354	1316.93
0.26746	0.84125	578.8323	478.4638	1.01229	0.92143	1.01229	575.1929	587.4889
0.00312	0.76454	21422.82	16366.28	1.41104	0.00003	1.41104	18102.54	25685.22
0.60734	0.97379	1483.288	1445.203	-1.08031	0.27276	0.92566	1408.737	1301.803
0.29965	0.95801	9394.393	8999.682	-1.02519	0.62912	0.97543	6826.115	6664.577
0.03958	1.1452	869.2629	993.048	1.14489	0.01676	1.14489	988.5394	1131.252
0.85423	1.02765	459.6365	466.7493	1.28694	0.04491	1.28694	438.0322	568.0048

0.83231	1.02003	44362	45101.78	-1.22392	0.08962	0.81705	47773.71	39074.48
0.01424	0.73669	317.374	233.3752	1.17396	0.29121	1.17396	231.6872	271.994
0.47117	0.93117	4716.337	4432.992	1.65541	3.91E-21	1.65541	4199.726	6955.457
0.47987	0.93606	1187.069	1116.143	-1.26233	0.00045	0.79219	1053.303	835.2225
0.13917	1.10397	4565.412	5050	-1.09282	0.25316	0.91506	5408.102	4944.012
0.6002	1.13326	125.8036	141.8285	1.18784	0.46457	1.18784	138.895	164.9946
0.60088	1.05617	334.6727	353.3893	1.17593	0.1432	1.17593	357.8092	419.6949
0.80909	0.97346	328.499	318.808	1.31198	0.02366	1.31198	334.184	436.5685
1	1	18.67097	24.00888	1	1	1	18.60989	31.89143
0.06844	1.09302	940.15	1027.702	1.57752	7.11E-09	1.57752	1053.511	1666.491
0.76289	0.95747	274.1862	263.828	-1.253	0.24318	0.79808	234.5746	187.2536
0.00024	1.31475	396.608	521.6352	1.86788	6.74E-12	1.86788	419.3276	781.4343
0.74446	1.02771	529.0217	544.4047	-1.07417	0.54138	0.93095	520.6973	483.7393
0.47147	1.10421	234.9786	258.9367	1.05903	0.72912	1.05903	234.3621	247.0318
0.98539	0.99387	130.0515	125.1352	1.201	0.54688	1.201	107.8186	128.7605
0.56946	1.0669	596.4026	631.6203	1.02356	0.82245	1.02356	624.2933	640.8832
0.64691	1.16534	118.316	142.2384	-1.11965	0.71448	0.89314	131.229	117.3408
0.27732	1.13325	267.9848	303.6242	1.05793	0.60804	1.05793	386.2452	408.6784
0.62468	1.0802	198.4265	214.6695	-1.25199	0.31434	0.79873	217.7138	173.8241
0.00711	1.20181	5115.375	6093.778	-1.26148	0.00046	0.79272	8009.751	6333.359
0.81566	1.07179	109.7204	118.3883	-1.67154	0.28423	0.59825	96.43222	58.24413
0.73631	1.04527	395.097	417.5032	-1.61528	0.01611	0.61909	382.682	233.9712
0.91615	0.98761	493.3039	483.7872	-1.06693	0.49371	0.93727	413.9241	387.8796
0.82951	1.00981	3664.993	3704.181	-1.15478	0.01621	0.86596	3913.846	3384.338
0.66163	1.12585	163.5281	177.9832	1.20633	0.11359	1.20633	426.9937	517.6541
0.19072	0.91404	13994.67	12812.41	1.0514	0.43221	1.0514	14400.95	15185.06
0.76546	1.03125	505.2217	524.1018	-1.03477	0.79402	0.9664	547.6021	524.5107
0.55246	1.05876	425.0322	448.9164	1.13363	0.26062	1.13363	360.7435	407.7648
0.16564	0.78996	773.3235	598.189	-1.06374	0.55304	0.94008	393.8417	369.5802
0.81661	0.97328	2208.998	2166.165	1.02622	0.75135	1.02622	1766.624	1814.603
0.95274	0.99013	540.5053	544.0729	-1.56208	0.00019	0.64017	542.1896	345.4393
0.31388	1.09611	1143.091	1261.699	-1.17861	0.01058	0.84846	1185.627	1006.382
1	1	18.89901	23.55988	1	1	1	22.05868	31.21421
0.13746	0.80795	1800.136	1440.101	1.0826	0.48111	1.0826	1496.407	1624.953
0.45207	0.94575	5490.655	5205.79	-1.19278	0.00007	0.83838	4873.271	4082.616
0.75804	1.02108	546.1486	557.4045	-1.2311	0.024	0.81228	566.7856	461.4459
0.59539	1.08418	277.5288	298.5105	1.03273	0.78436	1.03273	334.8064	346.3625
0.52037	1.18928	138.5663	161.6026	1.24323	0.37174	1.24323	127.9166	159.0583
0.68233	0.73887	46.5985	34.43776	-1.25544	0.81742	0.79653	41.64964	32.88953
0.7579	1.0438	375.0779	395.269	-1.04464	0.7018	0.95727	317.9856	304.2507
0.9986	0.99973	8935.139	9079.221	1.72111	2.55E-07	1.72111	8498.799	14671.78
0.00148	1.24304	826.8521	1031.396	1.12414	0.07686	1.12414	2382.951	2682.385
0.77733	1.03496	331.3359	344.7377	-1.01092	0.94326	0.9892	297.7484	294.1771
0.70389	1.24179	61.06142	74.25861	1.35	0.30314	1.35	102.1246	137.8527
0.78425	1.02886	332.6976	341.92	1.08667	0.25915	1.08667	589.3377	640.6463
0.03397	0.77183	1128.116	866.4287	1.15975	0.05195	1.15975	877.5325	1020.701
0.12369	1.10841	633.1545	702.0468	-1.09531	0.11983	0.91298	897.1367	819.1852
0.94887	1.07849	28.40707	29.49781	1.09542	0.94645	1.09542	33.7267	34.56025
0.39021	0.87379	1397.444	1215.97	-1.10105	0.44852	0.90823	1244.869	1137.72
0.00002	1.40145	2865.009	4071.586	1.73001	4.72E-08	1.73001	3788.716	6665.441
0.38119	0.90073	2708.499	2439.104	-1.22216	0.00013	0.81822	1709.134	1397.957
0.54623	1.04366	1467.082	1537.731	1.04891	0.35624	1.04891	1665.009	1746.889

0.05432	1.09998	1989.482	2192.189	1.07247	0.15509	1.07247	1991.624	2138.326
0.07622	1.09243	10939.13	11942.42	-1.05004	0.2406	0.95234	10825.62	10308.79
0.54139	1.06683	451.7665	480.2228	-1.08801	0.3179	0.91911	515.5654	474.4092
0.88162	0.98146	351.2163	342.1341	1.37679	0.00846	1.37679	320.5168	443.25
1	1	17.88924	22.95832	1	1	1	17.11795	32.48043
0.12576	1.13339	422.6461	478.1996	-1.00561	0.95286	0.99442	399.3856	397.1946
0.08487	1.16544	894.7108	1046.751	-1.07875	0.50635	0.927	1184.93	1095.555
0.47395	0.92744	14058.69	13033.63	1.45534	0.00007	1.45534	13565.13	19788.7
0.44436	1.09013	453.5852	492.4591	1.21765	0.01298	1.21765	481.5017	586.2847
0.34087	1.0801	509.3361	551.5128	1.13628	0.22806	1.13628	472.2339	534.2501
0.35534	1.14663	195.0182	223.9834	1.09036	0.69216	1.09036	190.0401	205.1681
0.06642	0.90659	4603.691	4178.534	1.24303	0.00003	1.24303	3520.091	4378.508
0.00927	1.11577	6008.954	6704.604	-1.92489	2.17E-31	0.51951	7108.287	3701.364
0.19882	1.1363	6284.401	7127.757	-1.33801	0.00506	0.74738	7975.553	5904.941
0.27182	0.89765	757.6564	683.8225	-1.85303	3.18E-09	0.53966	649.7446	351.7878
0.00025	1.26446	15483.19	19527.35	1.01933	0.83916	1.01933	18790.23	19208.93
0.03801	0.80453	789.7598	639.7246	-1.48003	0.00032	0.67566	639.7142	430.5939
0.39794	0.93911	1792.653	1702.443	1.05502	0.32901	1.05502	1717.042	1814.964
0.10224	0.76384	11980.3	9097.652	1.34717	0.04634	1.34717	9818.395	13399.73
0.96208	1.00435	734.3453	740.7932	-1.43094	0.00022	0.69884	704.4402	490.443
0.35433	1.0573	1855.292	1955.478	1.01426	0.74321	1.01426	2080.541	2110.027
0.85749	1.01247	1134.198	1145.73	1.08887	0.18468	1.08887	1048.229	1142.839
0.94521	1.01069	302.7156	309.9695	-1.28578	0.0613	0.77774	320.4234	249.179
0	3.68826	3179.927	11793.86	3.98208	0	3.98208	3290.128	13137.04
0.0142	1.19752	1394.838	1667.298	1.32604	1.34E-06	1.32604	1600.782	2128.413
0.04889	1.33141	34382.7	45114.64	-2.08013	0.00002	0.48074	60655.91	28149.06
0.65688	1.02889	6604.939	6761.726	1.00015	0.99738	1.00015	6640.018	6633.097
0.00051	0.72665	1517.735	1100.264	-1.27538	0.00077	0.78408	1233.7	969.0172
0.5431	1.04528	613.743	641.7841	-1.10099	0.15922	0.90827	1089.927	989.679
0.00037	1.22954	5987.151	7340.2	-1.49557	0.00006	0.66864	9240.366	6066.138
0.12985	0.91505	2199.278	2016.908	1.32026	5.61E-10	1.32026	2198.219	2901.887
0.4203	1.07415	450.4485	482.4816	1.7721	6.41E-08	1.7721	457.8733	808.2757
0.02029	1.13465	14034.95	15930.24	-1.40981	2.31E-08	0.70932	16840.07	11907.46
0.46097	1.20058	138.5121	164.3205	1.26973	0.28487	1.26973	151.652	191.508
0.9207	1.00577	1086.755	1093.928	-1.2659	0.00027	0.78995	1088.814	861.3267
0.44437	0.84695	306.2712	264.5986	-1.29339	0.33921	0.77316	234.123	180.044
0.33551	1.07442	675.6953	724.6652	1.11635	0.08314	1.11635	693.3902	774.17
0.84744	0.98762	2356.844	2314.325	-1.25227	0.02071	0.79855	1865.549	1457.714
0.11157	1.10132	786.2351	864.7756	1.20258	0.03535	1.20258	807.6839	969.2712
0.50429	1.06195	419.1071	444.376	-1.05526	0.58709	0.94764	417.8389	395.2883
0.0959	0.86223	382.7861	330.2748	1.09631	0.44258	1.09631	302.7634	331.2705
0.36809	1.06805	508.3459	543.3154	-1.05977	0.32315	0.9436	1428.113	1347.019
0.00448	0.78699	832.1449	652.6368	1.03599	0.72551	1.03599	652.2599	678.7108
0.48107	0.90735	622.6733	571.9417	-1.09799	0.5317	0.91076	521.0238	481.2291
0.97239	1.0056	10710.31	10623.19	-2.12077	5.35E-15	0.47153	10274.87	4815.708
0.22865	1.11135	2178.165	2418.087	1.01606	0.81381	1.01606	2377.706	2418.344
0.02686	0.66239	1243.384	804.0383	1.1635	0.25991	1.1635	797.2087	936.7683
0.04402	1.13583	1643.088	1872.897	-1.06718	0.27671	0.93705	1758.384	1649.267
0.00914	1.22973	702.135	860.3674	-1.6338	1.11E-09	0.61207	668.1353	408.8827
0.92013	0.97088	127.4165	122.8159	1.21581	0.62345	1.21581	87.45362	105.4904
0.74239	0.98141	2519.676	2479.086	-1.0629	0.22353	0.94082	2441.18	2293.524
1.37E-08	1.29188	3119.999	4027.688	-1.22309	0.00184	0.8176	3747.705	3046.485

2.78E-09	0.6732	10549.55	7073.14	1.43426	0.00011	1.43426	9572.216	13780.51
0.00033	1.26977	2894.773	3679.816	1.2488	0.00022	1.2488	3600.836	4487.968
0.12976	0.8071	432.4134	344.0071	-1.239	0.07004	0.8071	511.5034	415.4359
0.84768	1.04489	169.7179	174.6853	1.10432	0.66611	1.10432	189.2651	211.9221
0.04854	0.85321	1854.478	1576.9	-1.0995	0.04938	0.90951	1690.882	1537.926
0.06336	1.10761	8526.385	9463.985	-1.08657	0.22251	0.92033	9512.451	8752.783
0.26217	1.08928	1349.812	1462.561	-1.03181	0.68646	0.96917	1948.293	1878.464
0.79591	0.98028	470.5964	461.0436	-1.5036	0.00005	0.66507	557.5629	371.8198
0.22734	0.91267	721.6566	657.0832	1.03073	0.63695	1.03073	658.9918	679.1493
0.80808	1.02816	280.7792	288.6737	1.15102	0.37427	1.15102	220.7693	254.7298
0.86589	0.98018	465.5047	457.9423	-1.23743	0.055	0.80813	424.0294	342.6585
0.13654	0.90312	1185.901	1068.156	-1.22342	0.00375	0.81738	940.2225	767.1332
0.00047	1.23707	1890.064	2341.395	-2.40645	1.89E-41	0.41555	1905.389	792.1331
0.95055	0.98861	348.4587	349.8228	-1.48115	0.10493	0.67515	229.0122	156.4231
0.09592	1.08458	2344.519	2542.673	1.64677	2.40E-16	1.64677	2667.296	4385.906
0.26761	0.90001	435.5037	390.744	-1.1215	0.23617	0.89166	378.3279	337.2928
0.40492	0.89939	378.7257	341.7756	-1.10741	0.52287	0.90301	326.2249	296.4108
0.82195	0.89713	74.2125	65.76009	1.00717	0.9901	1.00717	65.09209	66.4884
0.07198	1.07564	4070.797	4378.713	1.06883	0.14189	1.06883	4923.13	5260.604
0.01078	0.82263	784.1156	647.0831	-1.28989	0.00013	0.77526	827.724	642.1854
0.30661	0.91753	4384.055	4008.54	-1.08236	0.31519	0.9239	4185.599	3863.906
0.96473	1.00279	2146.3	2141.271	-1.07217	0.13687	0.93269	2245.76	2095.384
0.51327	1.03626	1310.22	1356.717	-1.00745	0.87263	0.9926	2331.51	2313.318
0.00145	0.86315	3746.249	3235.756	1.07791	0.1437	1.07791	3148.198	3392.186
0.36335	1.04682	1956.415	2052.78	1.03239	0.58076	1.03239	2048.874	2111.168
0.39519	0.93473	699.9077	656.505	-1.10922	0.20742	0.90153	595.3142	536.0729
0.84657	0.92376	93.61514	84.83447	-1.06978	0.88394	0.93477	81.73732	76.31815
0.27042	1.08256	966.9165	1051.934	1.0565	0.48696	1.0565	932.5468	982.1393
1	1	18.38083	22.87571	1	1	1	18.11389	30.60416
0.99475	1.00039	2376.686	2380.846	-1.18471	0.01619	0.84409	2284.82	1941.394
0.57131	0.94546	1405.226	1339.691	1.1048	0.06739	1.1048	1408.297	1555.702
5.98E-08	1.28631	2056.293	2644.762	1.34174	0.00002	1.34174	2383.872	3195.521
0.09724	0.8823	4883.751	4323.737	1.47087	2.81E-14	1.47087	4934.776	7252.138
0.04712	1.26279	2611.94	3298.333	-1.24247	0.00168	0.80485	6636.139	5297.966
0.96531	1.0153	87.01584	87.98671	1.04717	0.92458	1.04717	87.96739	94.99014
0.17753	1.11827	4516.811	5103.717	-1.15046	0.03221	0.86922	5124.887	4439.378
0.78545	1.28445	33.57655	42.6132	-1.03912	0.96619	0.96235	45.00089	49.25381
0.28607	1.09599	471.5419	515.738	1.29287	0.00295	1.29287	478.6152	617.653
0.25657	1.07898	2526.823	2706.657	1.02652	0.70806	1.02652	3081.641	3153.141
0.67733	1.02306	6524.088	6681.984	1.15469	0.00512	1.15469	5319.057	6143.489
0.68729	0.94502	393.4047	367.701	1.0204	0.88098	1.0204	355.8586	363.9465
0.93484	1.02451	120.5425	123.2249	-1.07102	0.85912	0.93369	151.4041	136.8541
0.04115	1.10257	1062.27	1170.979	1.15668	0.00499	1.15668	1178.411	1363.433
0.06402	1.11598	3404.118	3808.404	1.11653	0.14554	1.11653	3946.034	4397.227
0.03743	1.20917	14339.83	17471.83	2.73452	2.49E-30	2.73452	15146.36	41736.61
0.18843	1.17991	265.2546	311.6711	1.36524	0.02424	1.36524	238.1533	324.439
0.17398	1.07071	13410.01	14347.63	-1.24766	2.28E-06	0.8015	14762.93	11839.35
0.00211	0.6349	2024.532	1268.492	1.30733	1.63E-06	1.30733	1383.267	1810.841
0.00005	0.78112	874.34	682.7726	-2.37908	1.76E-27	0.42033	699.9388	294.2542
0.04046	1.09856	3003.781	3300.687	1.07471	0.16107	1.07471	3082.602	3312.624
0.75809	0.97422	3235.781	3138.031	-1.01066	0.8655	0.98945	3242.281	3223.993
0.4999	1.05107	1515.106	1601.702	1.034	0.71244	1.034	1575.655	1627.662

0.35227	1.06869	1139.818	1217.293	-1.05232	0.52357	0.95029	814.3366	773.8758
0.00135	1.27	10871.63	13733.67	-1.7961	4.86E-07	0.55676	20688.68	11367.92
0.49062	0.82492	16716.32	12599.03	-6.78246	0	0.14744	14555.34	2144.562
0.67984	1.02377	833.6406	852.7492	1.17837	0.01483	1.17837	884.8236	1043.985
0.20568	1.08221	650.0037	703.1397	1.02357	0.77108	1.02357	596.2034	609.5282
0.00517	0.62975	618.5985	381.9498	1.02084	0.90847	1.02084	432.2505	447.342
0.91005	0.98817	8168.634	7986.166	-1.77795	3.46E-17	0.56245	7972.051	4466.964
0.73347	1.01913	738.9684	753.1977	-1.04824	0.49119	0.95398	767.0103	731.0125
0.61005	1.10883	173.4488	193.8543	-1.24019	0.24858	0.80633	245.4033	196.9571
0.80936	0.98453	1029.876	1011.431	-1.10261	0.14688	0.90694	1063.467	962.5172
0.24897	1.50855	96.05679	140.8055	1.70501	0.01277	1.70501	134.6613	230.8019
0.19252	1.07123	892.5582	956.0255	-1.11148	0.20716	0.8997	923.3986	827.7974
0.03451	0.83812	12353.42	10343.74	1.6452	1.54E-09	1.6452	11341.63	18672.21
0.76596	1.12794	79.57426	89.28926	-1.29737	0.63866	0.77079	79.36652	62.32776
0.32509	1.05683	3033.376	3220.717	-1.17389	0.00745	0.85187	2855.327	2441.015
0.4369	0.72976	80.2162	58.73281	-1.05014	0.9281	0.95226	57.22134	54.55337
0.99192	0.99461	67.63092	68.50884	1.48633	0.58691	1.48633	44.76273	64.74755
0.06974	0.79637	584.249	459.9374	1.02662	0.82014	1.02662	472.9005	483.5237
0.44933	1.04628	3114.15	3258.637	-1.09501	0.04676	0.91323	3143.989	2872.499
0.93962	0.98393	159.5078	155.8229	1.02177	0.95248	1.02177	118.133	123.1254
0.1645	0.86467	3514.56	3031.615	-1.16978	0.03676	0.85486	3219.698	2751.375
0.95641	1.00616	499.9026	499.0237	1.63115	2.70E-08	1.63115	444.2812	723.1607
0.00178	1.20893	4841.341	5847.455	-1.47722	0.00004	0.67695	6485.762	4349.062
5.51E-06	0.73276	1935.05	1420.99	-1.18337	0.01436	0.84505	2162.781	1820.242
0.91898	0.99009	656.021	653.1574	-1.07675	0.50903	0.92872	684.7011	632.2249
0.88113	0.8661	33.65824	29.39614	-1.44877	0.7485	0.69024	37.21926	34.68133
0.15649	0.85487	6360.084	5474.673	1.30553	0.01016	1.30553	7002.047	9074.537
0.74557	0.91684	138.933	128.9035	1.333	0.3689	1.333	116.5063	154.3835
0.78337	1.0649	135.0064	143.7633	1.01843	0.93495	1.01843	171.3387	173.4866
0.84796	1.03533	217.8494	228.1857	-1.03944	0.85987	0.96206	178.7878	171.0666
1.87E-09	0.63412	7910.975	5019.924	1.2636	8.37E-06	1.2636	7699.644	9734.615
0.00003	0.68923	1201.034	823.2046	-1.09969	0.11584	0.90935	893.8606	813.2518
0.00031	0.80333	11070.31	8903.89	-1.04667	0.43951	0.95541	9894.436	9466.225
0.58558	0.9572	800.2502	768.8909	-1.163	0.01325	0.85985	754.6054	648.9785
0.43188	0.93473	1808.868	1697.13	-1.03815	0.53099	0.96325	1625.772	1565.401
0.93099	1.01476	351.1686	349.7762	1.00779	0.96082	1.00779	285.8079	290.0916
0.84478	1.01384	961.2605	974.3842	1.1336	0.14525	1.1336	1658.798	1879.177
0.54666	1.03217	1290.243	1333.553	-1.01061	0.85141	0.98951	1343.672	1329.452
0.92299	1.02619	102.4364	105.0013	-1.04396	0.89702	0.95789	105.7658	101.7415
0.01758	1.22449	44956.79	54794.93	-1.33562	0.0054	0.74871	58583.63	43532.89
4.71E-09	1.30344	17398.11	22658.66	1.40449	0.00035	1.40449	19954.47	28064.14
0.26985	1.07791	4431.322	4764.564	1.26159	0.0024	1.26159	4280.673	5418.359
0.32202	0.87373	623.2216	550.6203	-1.25607	0.04488	0.79614	492.9672	394.0388
0.60596	1.10656	187.8194	205.6111	-1.06853	0.56797	0.93587	376.0955	351.0264
0.43076	0.86954	853.202	749.8924	-1.62579	1.74E-06	0.61508	590.8246	364.3308
0.35666	0.95511	1611.531	1539.539	-1.16675	0.00335	0.85708	1581.961	1354.379
0.00322	0.85855	2937.293	2526.027	-1.0648	0.32275	0.93914	2874.185	2692.031
0.00703	0.79497	30701	24539.09	1.13731	0.15343	1.13731	31231.6	35462.98
0.76165	1.03503	495.5345	509.5094	1.0525	0.64117	1.0525	476.7313	503.9976
0.08171	1.07662	2708.558	2915.879	1.0149	0.72396	1.0149	5669.615	5752.994
0.11721	0.87857	531.0117	465.9051	1.07883	0.55703	1.07883	427.6005	458.8013
0.98819	0.99895	755.0551	755.7659	-1.06403	0.47519	0.93982	666.2044	624.5805

0.91782	1.01185	2261.067	2304.622	-1.48269	0.00178	0.67445	2018.869	1361.629
0.03219	0.75919	2221.929	1687.764	-1.00795	0.88172	0.99212	1667.602	1656.224
0.16336	1.06656	9333.891	9953.72	-1.75353	2.23E-09	0.57028	11010.11	6190.907
0.63181	1.02735	1610.38	1655.176	-1.02499	0.69347	0.97562	1553.922	1513.452
0.95132	0.99148	366.1202	361.7319	1.00495	0.95941	1.00495	471.5396	472.7263
0.75088	1.02733	3744.602	3748.599	-1.14756	0.07239	0.87141	4743.805	4111.172
0.64345	1.07857	2260.216	2441.52	-2.07323	2.13E-24	0.48234	2579.207	1242.526
0.98644	1.0039	152.4391	154.4769	-1.29677	0.4	0.77114	130.5689	100.5947
0.76565	1.09274	115.5359	128.1392	-1.10045	0.90033	0.90872	66.87062	57.37676
0.10369	0.65178	155.3046	101.3229	-1.48287	0.38173	0.67437	117.4441	79.59724
0.17086	1.23118	184.4486	227.2665	1.36819	0.06885	1.36819	195.863	266.7499
0.25983	1.04953	4794.479	5034.289	1.00949	0.85631	1.00949	5332.648	5378.027
0.20879	1.10167	877.4067	966.8985	1.02361	0.61684	1.02361	1430.589	1464.418
0.20871	0.93039	2070.026	1926.078	1.57023	3.52E-21	1.57023	1748.956	2746.417
0.10218	1.09391	1231.875	1345.002	1.1922	0.02267	1.1922	1966.451	2312.17
0.63619	0.96958	1220.252	1179.21	-1.00905	0.86035	0.99103	1286.496	1275.319
0.46533	0.92144	1595.606	1463.273	-1.50337	1.42E-12	0.66517	1515.729	1008.048
0.25774	1.11721	312.38	348.806	1.03026	0.83378	1.03026	316.2534	327.8888
0.91472	0.94353	58.67052	55.82699	-1.36019	0.68319	0.73519	60.2798	44.53542
0.00017	1.2499	3400.753	4265.713	1.1849	0.01029	1.1849	4098.574	4867.276
0.00498	1.2026	5613.945	6744.981	-1.36927	0.00043	0.73032	7076.165	5150.519
0.52586	0.94485	575.2158	545.2754	-1.12819	0.22246	0.88638	651.9006	575.5226
1	1	19.48711	23.66914	1	1	1	18.90061	30.32368
0.845	1.03351	256.7691	262.3653	1.03226	0.80621	1.03226	261.4462	270.1368
0.90842	1.06235	80.52237	94.57666	1.4206	0.24416	1.4206	97.75042	138.1733
0.22569	1.05717	2033.135	2150.613	-1.1189	0.14185	0.89373	2364.324	2110.027
0.80107	1.03473	339.8302	348.2938	1.02977	0.78259	1.02977	310.9481	320.0961
0.43277	1.04056	8095.028	8426.23	-1.15844	0.00498	0.86323	9468.232	8156.635
1	1	18.81867	23.93579	1	1	1	18.69954	31.00788
0.86479	0.99016	1084.158	1075.356	-1.08732	0.16517	0.91969	1023.011	940.2417
0.98452	0.99853	530.811	530.3622	-1.07514	0.5302	0.93011	486.386	450.7282
0.95169	1.00257	2712.554	2719.425	1.04762	0.30743	1.04762	2201.073	2305.582
0.27305	1.06462	3095.074	3309.595	1.01123	0.87166	1.01123	3426.466	3474.399
0.07013	0.7677	895.7786	679.2388	-1.04197	0.68327	0.95972	718.3441	692.4367
0.09925	1.08426	1002.512	1087.14	1.06613	0.27819	1.06613	1114.316	1186.439
0.74663	0.96651	333.0525	322.4266	-1.0273	0.88141	0.97343	310.7438	299.0275
0.03921	1.74878	109.1178	187.4683	3.85064	2.48E-08	3.85064	78.59933	301.5176
2.61E-17	0.63597	29099.76	18489.1	-1.49474	2.21E-20	0.66901	32264.33	21588.29
0.09911	0.9347	5252.13	4908.845	1.05774	0.29395	1.05774	5734.705	6060.935
0.44663	1.22465	143.0577	171.9957	1.36126	0.37168	1.36126	126.689	176.1765
0.92285	1.04432	93.84947	94.35252	-1.05942	0.88559	0.94391	88.66367	84.12505
0.01254	0.87315	2125.197	1856.677	-1.02628	0.73991	0.97439	2436.518	2370.867
0.93478	1.01173	277.3522	280.3357	1.02668	0.83105	1.02668	290.4156	297.6965
0.91837	0.88964	25.14516	22.35639	1	1	1	16.93341	29.99881
0.00001	0.81004	4123.468	3339.591	1.45168	1.71E-13	1.45168	3183.539	4619.451
0.77158	1.01302	1508.287	1528.03	-1.12625	0.08603	0.88791	1525.535	1359.47
0.8431	0.94371	132.1157	126.9195	-1.06699	0.85668	0.93721	116.5731	107.9978
0.14095	0.93526	2478.645	2317.412	-1.38758	3.13E-13	0.72068	2250.41	1621.831
0.7082	1.11514	135.6019	147.8173	1.36012	0.63482	1.36012	66.13037	88.41018
0.78744	0.98262	4352.139	4285.869	-1.10951	0.1268	0.9013	4772.644	4302.326
0.14865	0.88464	26238.91	23354.05	1.14965	0.02296	1.14965	27240.45	31315.21
0.64823	1.0959	156.1081	171.8629	1.00181	0.99559	1.00181	146.5394	143.9554

1	1	17.9696	23.52613	1.21238	0.86591	1.21238	23.01266	35.88892
0.22498	1.0824	13294.76	14438.17	-1.12874	0.10498	0.88595	15048.08	13303.72
0.69539	0.90037	1151.858	1035.447	-3.68805	2.20E-40	0.27115	1215.247	328.2358
0.5007	1.03852	2510.672	2599.448	-1.09801	0.08077	0.91074	2622.549	2390.76
0.71729	1.06357	305.7897	331.4217	1.12113	0.52564	1.12113	299.984	331.7001
1	1	20.22059	23.51082	1	1	1	18.97125	33.80341
0.36352	0.82074	1023.142	858.0643	-2.15866	0.01431	0.46325	535.1886	244.8322
0.42716	1.0768	586.6012	628.7399	-1.07416	0.48782	0.93096	428.2374	397.7353
0.12787	0.76723	415.2697	313.7487	-1.05603	0.68973	0.94694	349.3625	332.6293
0.34731	1.03956	3603.927	3746.897	1.01804	0.69562	1.01804	4063.898	4138.227
0.97082	1.02942	54.13166	52.32392	1.19567	0.74134	1.19567	51.23195	61.24357
0.04438	0.82222	1344.578	1106.241	3.36164	0	3.36164	1097.649	3698.808
0.03039	1.21502	941.1227	1139.758	-1.06146	0.43954	0.94209	1955.714	1836.658
0.66265	1.12118	151.1315	171.5952	-1.11368	0.39964	0.89793	307.0541	275.9594
0.68326	1.03595	2072.575	2151.878	-1.07065	0.50167	0.93401	1970.388	1832.371
0.98694	0.99839	521.3249	517.7596	-1.03526	0.63735	0.96594	550.5577	532.0358
0.811	1.02063	833.371	854.4238	-1.28034	0.01193	0.78104	712.2181	553.9547
0.55284	1.04708	500.4162	523.3563	1.08118	0.28362	1.08118	529.454	572.3345
0.45558	0.74401	110.1115	80.06577	1.17659	0.73835	1.17659	84.60567	96.64735
0.14682	1.10161	3744.242	4120.786	-1.32619	1.07E-09	0.75404	3899.536	2940.594
0.529	1.03949	1825.336	1899.686	1.01972	0.79919	1.01972	1934.095	1965.902
0.35972	0.87111	529.709	467.6768	-2.22182	1.55E-06	0.45008	406.1888	182.8718
0.62536	0.96345	1363.052	1318.505	-1.06751	0.43055	0.93676	1300.62	1211.688
0.90907	0.97254	181.0957	177.385	-1.03238	0.85764	0.96863	263.6512	255.747
0.75869	1.14574	70.63782	81.48945	1.23884	0.66142	1.23884	77.22838	93.90213
0.68487	1.10441	133.5576	148.9083	-1.25736	0.53365	0.79532	153.0906	123.2899
0.96287	0.99723	1898.921	1899.047	-1.16848	0.0096	0.85582	1624.624	1391.671
0.85288	1.03433	289.3294	293.5914	1.15818	0.3652	1.15818	296.047	346.2581
0.38496	1.04179	2474.372	2575.891	-1.19957	0.02336	0.83363	2156.052	1808.579
0.43401	1.07749	635.5186	680.916	1.2523	0.00335	1.2523	664.2041	833.023
0.15591	0.81556	6866.072	5614.644	1.17535	0.12211	1.17535	6166.232	7223.88
0.18783	1.08424	5762.92	6195.464	1.62835	2.69E-06	1.62835	6069.052	9860.474
0.92919	0.99307	701.7255	694.3987	-1.0979	0.25446	0.91083	665.8253	605.7618
0.91551	0.98369	189.5589	186.5892	1.0388	0.88148	1.0388	200.8667	206.0927
0.86064	0.97334	217.7159	211.0969	-1.14201	0.5742	0.87565	173.1797	151.8088
0.22641	1.07575	1622.718	1750.687	1.08021	0.16707	1.08021	1678.667	1813.223
0.34413	1.08187	846.2785	915.0862	1.12555	0.26341	1.12555	947.7111	1056.895
0.03317	1.11139	2666.146	2963.477	-1.34487	7.76E-08	0.74356	3319.636	2460.354
0.97096	0.9918	196.6581	198.9795	-1.03586	0.80298	0.96538	227.2338	219.375
0.66785	1.02934	4168.498	4289.429	1.04583	0.42832	1.04583	3855.807	4043.91
0.42001	1.06774	1496.263	1604.88	1.50971	1.71E-13	1.50971	1164.385	1759.134
0.08357	1.11451	5860.315	6567.394	-1.27431	2.55E-07	0.78474	4823.687	3784.323
0.90194	0.99343	2323.697	2316.025	1.05615	0.45706	1.05615	2611.386	2756.289
0.80801	0.93671	2890.227	2612.11	-4.45971	0	0.22423	3034.308	683.6582
0.52108	1.06678	446.0001	473.5601	1.69232	0.0004	1.69232	402.1395	674.7808
0.2622	1.04947	1947.188	2043.711	-1.04819	0.41134	0.95402	1968.367	1874.708
0.70523	0.97005	7202.055	7025.729	-1.19698	0.00141	0.83543	6878.825	5733.412
0.00003	1.24331	5801.51	7196.993	-1.90517	3.60E-09	0.52489	8455.117	4375.026
4.37E-12	1.98032	10049.12	20253.36	2.30382	4.12E-18	2.30382	9602.65	22348.04
0.82276	0.89889	89.50923	81.48764	-1.06005	0.91963	0.94335	59.69077	56.22379
0.95441	0.96972	63.82145	62.00622	1.08943	0.8912	1.08943	54.629	59.20979
0.69036	1.03747	767.6314	792.3091	-1.02616	0.78507	0.97451	719.4327	703.6527

2.71E-19	0.61821	1664.383	1029.511	-1.40811	0.00019	0.71017	1202.773	850.6754
0.25861	1.23648	161.8141	199.115	1.08228	0.75772	1.08228	151.2106	162.2667
0.75148	0.91211	114.8642	104.7475	1.11322	0.73326	1.11322	111.1568	124.5745
0.23412	1.09879	849.4313	933.6467	-1.02442	0.7601	0.97616	1202.226	1169.958
0.55015	1.0342	1479.531	1528.186	1.03499	0.51686	1.03499	1348.957	1397.387
0.40321	1.05062	1246.726	1312.25	-1.21646	0.00079	0.82206	1266.919	1040.075
0.76788	0.96904	398.7122	385.5988	1.04319	0.74528	1.04319	354.0568	368.8731
0.38204	1.04723	3035.819	3179.288	-1.11706	0.0432	0.89521	2881.24	2581.753
0.90202	1.03472	125.2999	128.097	1.06624	0.861	1.06624	125.6301	132.6917
0.52914	1.03957	1371.922	1426.442	1.40891	0.00092	1.40891	1295.205	1831.004
0.2929	1.05308	3425.858	3614.926	-1.03238	0.50885	0.96864	3577.594	3466.175
0.54946	0.95993	3275.777	3145.719	-1.48479	2.38E-08	0.67349	3043.409	2048.838
0.05583	1.0911	2007.283	2189.604	-1.00861	0.84343	0.99147	2302.094	2282.227
6.63E-12	0.61842	12637.32	7819.239	-1.22292	0.00039	0.81772	11112.11	9081.297
0.87614	0.97267	330.6663	313.9849	1.17705	0.10266	1.17705	749.8761	887.4374
0.0137	1.13109	1209.167	1367.919	1.50085	1.03E-07	1.50085	1221.369	1830.461
1.01E-07	0.72565	16662.79	12068.71	-1.03574	0.62993	0.96549	14388.53	13889.29
0.00021	0.80271	1545.113	1240.905	1.11307	0.08348	1.11307	1335.75	1485.752
0.37344	0.95408	2135.928	2041.405	9.96428	2.32E-41	9.96428	2086.432	20829.23
0.74662	0.97664	1762.427	1729.698	-1.07149	0.23972	0.93328	1710.811	1593.546
0.05778	0.74184	4361.7	3272.513	-1.65752	1.30E-06	0.60331	1438.824	865.4689
3.12E-06	0.55407	4721.038	2597.563	-1.46614	3.25E-06	0.68206	4130.79	2805.295
0.22795	1.07049	4804.011	5125.273	-1.12325	0.00814	0.89027	4924.419	4383.372
0.01753	0.872	1186.884	1035.974	-1.0982	0.11623	0.91058	1087.304	989.6934
0.88421	0.98274	302.7529	297.4684	-1.05256	0.71378	0.95007	296.1494	281.4665
0.72688	1.02117	848.6153	865.8038	1.06723	0.39904	1.06723	885.4172	947.8442
0.64569	1.07921	331.4957	361.6711	-2.1294	5.31E-06	0.46962	314.0417	147.7444
0.73763	0.93019	316.5224	307.6801	-10.20876	2.24E-17	0.09796	344.045	33.5706
0.79366	1.03288	979.8755	1021.995	-1.1786	0.13075	0.84847	1102.893	932.5455
0.05463	0.82213	4957.084	4093.363	1.25975	0.00463	1.25975	5089.008	6366.03
0.05766	1.11721	1346.456	1507.668	1.24463	0.00017	1.24463	1408.963	1757.323
0.21297	0.8573	1511.195	1295.547	1.05371	0.35045	1.05371	1061.416	1118.113
0.98602	1.00152	497.1191	496.3251	1.16497	0.18991	1.16497	465.1737	544.7543
0.08363	0.88236	16596.48	14622.04	1.95409	1.40E-26	1.95409	15442.83	30222.81
0.89033	0.92483	67.41141	62.73244	1.09357	0.8538	1.09357	89.99237	95.58045
0.96667	0.99738	5346.769	5325.285	1.10334	0.06236	1.10334	5271.924	5823.706
0.86716	1.01075	5203.856	5207.978	-1.06657	0.28129	0.93758	5313.146	5001.387
0.70359	1.02516	1823.886	1863.823	1.00574	0.93384	1.00574	2006.268	2024.254
1	1	18.58677	25.48885	1	1	1	17.5331	31.79948
0.54516	1.0388	1622.524	1678.163	1.00428	0.93971	1.00428	1621.463	1631.917
0.08674	1.28715	16592.48	20953.39	-2.7724	2.44E-09	0.3607	29890.45	10260.18
0.51005	0.7031	75.33833	53.08963	-1.10458	0.88431	0.90532	49.9668	45.0574
0.20621	1.15986	235.0205	272.3938	1.09216	0.5862	1.09216	253.8913	276.1364
0.01504	1.12198	15291.88	17144.68	-1.53393	5.67E-20	0.65192	17554.29	11444.53
0.89801	1.01864	2909.438	2973.951	1.12425	0.18022	1.12425	2374.698	2691.516
0.73051	1.04939	269.6796	281.1903	1.07361	0.61507	1.07361	254.9967	273.7374
0.18436	1.07515	6382.652	6852.027	-1.06471	0.2069	0.93922	6776.883	6361.959
0.96611	1.01017	240.1975	236.0228	-1.10122	0.5271	0.90808	250.8618	228.2505
0.01839	1.13148	1179.426	1333.023	1.08742	0.14261	1.08742	1281.561	1396.131
0.8496	0.9873	1125.572	1115.451	-1.13112	0.11209	0.88408	1209.533	1066.475
0.57525	0.94382	498.0948	471.9197	-1.18474	0.22312	0.84407	500.5913	418.0005
0.45928	1.03879	3498.003	3641.934	-1.07423	0.30603	0.9309	4060.785	3759.669

0.237	0.81958	739.2311	594.4225	1.28144	0.1114	1.28144	677.794	878.7141
0.52286	1.03415	7162.493	7391.523	1.02888	0.58405	1.02888	7433.272	7624.902
0.54166	1.03343	1438.031	1483.44	-1.09452	0.14578	0.91364	1536.253	1404.474
0.04781	1.19756	7786.952	9370.223	-1.47963	0.00702	0.67584	15554.26	10640.84
0.03233	1.26695	281.6118	357.2938	-1.76597	0.0021	0.56626	381.1374	214.5956
0.94837	1.01081	193.1995	195.8358	-1.05702	0.84687	0.94606	165.4664	153.6158
0.96422	1.01005	188.832	194.3965	-1.03227	0.81645	0.96874	367.5162	353.9072
0.24381	1.05235	5268.4	5540.611	-1.13539	0.00175	0.88076	5879.825	5178.69
0.00356	1.25448	1160.583	1456.553	1.82959	6.11E-14	1.82959	1090.934	1999.448
0.97634	1.00287	1283.387	1281.307	-1.19352	0.00025	0.83785	1648.207	1380.875
0.44981	0.93606	546.6325	510.241	-1.02116	0.84309	0.97928	548.0588	538.3195
0.04832	0.7516	2122.168	1587.927	1.00955	0.91361	1.00955	1770.651	1790.211
0.5822	1.06853	537.3809	569.3389	-1.03166	0.76768	0.96931	616.933	600.3496
0.00131	0.83723	1649.288	1380.266	-1.16926	0.00975	0.85524	1358.948	1161.561
4.82E-06	0.8094	8922.488	7219.445	-1.3355	2.02E-08	0.74878	7106.708	5319.311
0.08902	1.31217	766.3987	1010.386	2.98935	4.39E-16	2.98935	931.8057	2801.704
0.88503	0.98219	929.066	924.8545	-1.21781	0.01209	0.82115	833.999	683.4121
0.50877	1.06225	1902.596	2015.521	1.17021	0.18409	1.17021	1913.694	2249.98
0.14349	0.88944	4680.822	4147.785	1.02952	0.64467	1.02952	4259.238	4387.74
0.36997	1.06149	849.3185	899.8461	-1.26045	0.00159	0.79337	730.8275	579.0653
0.78181	0.94355	153.0583	144.5226	-1.07694	0.74223	0.92856	158.1393	146.7511
0.17752	0.8767	14242.84	12561.17	1.90661	2.75E-13	1.90661	14333	27404.86
0.00013	1.23654	1094.989	1352.079	1.49005	1.84E-15	1.49005	1375.177	2047.765
0.07943	1.10197	5821.67	6405.269	-1.32175	3.91E-10	0.75657	6695.258	5059.753
0.0085	0.60861	7728.777	4579.631	-2.04564	0.00001	0.48884	6237.684	2963.189
0.18576	0.8731	13454.71	11787.5	4.02972	0	4.02972	13267.87	53493.25
0.14545	1.13937	350.8573	400.1206	-1.16335	0.25276	0.85959	402.6388	344.9569
0.43638	0.93337	958.0094	889.1141	1.00666	0.92427	1.00666	897.2813	905.0425
0.00772	1.11695	3111.148	3474.598	1.04975	0.3957	1.04975	3101.393	3243.742
0.52972	1.04166	5635.214	5900.347	-1.05907	0.23971	0.94422	5725.043	5407.064
0.82913	0.95758	436.0311	405.9041	-1.98464	0.00005	0.50387	479.6572	244.1549
0.56988	0.94303	393.7419	370.3049	1.0563	0.75827	1.0563	365.5006	379.8583
0.50245	1.03866	1603.085	1669.938	-1.1419	0.10172	0.87574	1614.511	1404.719
0.18636	1.18146	1889.088	2297.044	1.0938	0.34962	1.0938	1708.541	1861.348
0.08289	1.07874	6946.848	7492.438	-1.22602	0.00011	0.81565	6629.418	5413.2
0.99509	1.00055	575.2883	573.283	1.02657	0.79846	1.02657	493.1606	504.3179
0.04951	1.10254	1866.377	2060.366	1.05073	0.3654	1.05073	2054.178	2159.813
0.57225	0.90236	488.7751	450.9646	-1.55926	0.00126	0.64133	354.6046	227.6305
0.45146	1.07716	522.1096	559.3395	1.0623	0.51195	1.0623	524.8812	559.1207
0.31642	0.901	601.8569	545.6928	1.10053	0.41877	1.10053	467.7774	517.0035
0.27578	0.83592	12348.77	10260.99	1.36679	0.03586	1.36679	10734.12	14872.29
0.61524	1.04215	4231.995	4382.78	1.03608	0.51126	1.03608	4340.709	4500.063
0.00655	1.11814	7330.208	8197.01	-1.52851	1.23E-16	0.65423	8464.482	5535.469
0.81309	0.94078	169.9302	156.365	-1.14185	0.79317	0.87577	91.3687	80.1109
0.00029	0.63729	5677.482	3623.809	-1.5982	1.29E-10	0.6257	4064.812	2555.77
0.87339	1.01151	497.0975	502.6259	-1.04102	0.62378	0.9606	522.483	501.9898
0.92599	1.03859	74.59303	76.94576	-1.21907	0.77248	0.8203	72.3299	60.65259
0.66301	1.02155	3807.608	3890.797	-1.66592	1.26E-27	0.60027	3505.331	2102.847
0.00158	0.61754	3673.5	2208.983	1.14461	0.33461	1.14461	2551.813	2989.757
0.09956	0.9234	1573.188	1451.496	1.03352	0.53254	1.03352	1544.452	1595.782
0.21321	0.94235	6968.566	6579.687	1.43612	0.00001	1.43612	5991.323	8603.098
0.56502	1.05645	6646.461	7068.897	-1.0357	0.58703	0.96553	6086.542	5881.393

0.12391	1.06814	4042.338	4316.657	1.02696	0.55157	1.02696	4804.852	4931.878
0.14999	1.17879	430.6492	503.9946	1.18632	0.02761	1.18632	445.2848	528.3021
0.00797	1.31257	11284.91	14557.5	-3.24987	2.01E-20	0.3077	21745.28	6529.528
0.15744	1.11048	1242.595	1376.761	-1.37052	0.00369	0.72965	1146.415	837.6953
0.0001	0.78913	1464.437	1154.054	-1.36474	0.00031	0.73274	1172.638	857.2742
0.28081	1.11039	441.655	488.3156	1.00981	0.9041	1.00981	489.7751	494.5743
0.90923	0.97854	154.8395	151.8471	1.05477	0.87378	1.05477	142.4324	146.8138
0.80328	0.97801	1267.592	1234.763	1.51464	0.05422	1.51464	1087.604	1671.938
0.07575	0.80011	3612.905	2893.973	1.30905	0.00526	1.30905	2954.872	3879.26
0.99784	1.00036	5880.677	5841.11	-1.99083	2.78E-12	0.5023	5561.511	2770.435
0.14794	1.07038	4378.426	4678.37	1.05118	0.25808	1.05118	4313.044	4530.619
0.0497	0.73542	570.8815	412.1637	-1.56309	0.02449	0.63976	457.1397	294.6089
0.49847	1.08791	687.7871	742.0253	-1.33852	0.01743	0.74709	651.0998	489.5148
0.1791	0.89539	1256.123	1122.728	1.09569	0.16751	1.09569	1147.299	1259.865
0.07915	1.09806	3633.777	3983.357	1.04495	0.32277	1.04495	4239.837	4428.799
0.84807	1.00974	1433.939	1449.953	-1.03571	0.66672	0.96552	1372.123	1321.098
0.17177	1.09507	2721.626	2977.188	-1.10208	0.05013	0.90737	2735.462	2484.687
0.99917	1.0002	257.3956	262.1738	-1.00269	0.98552	0.99732	224.9714	224.5846
0.71775	1.02463	867.2227	888.5868	1.26183	0.00001	1.26183	1604.432	2021.557
0.71922	1.03147	4575.707	4737.556	1.56545	1.38E-13	1.56545	4008.958	6280.817
0.15721	0.81612	5462.755	4420.453	1.3585	0.00055	1.3585	4750.651	6448.388
0.41876	0.94302	1591.39	1482.497	1.19174	0.00871	1.19174	1525.406	1819.836
0.90833	0.95298	126.7705	115.6157	3.86901	0.0004	3.86901	58.49261	225.8965
0.01045	0.82824	2160.407	1785.796	1.15971	0.01098	1.15971	2166.531	2510.68
0.71951	0.93644	1578.691	1498.261	-2.49887	3.57E-10	0.40018	970.6548	389.6466
0.99032	1.00081	3540.629	3571.663	-1.10879	0.12822	0.90189	3787.797	3404.621
0.97821	0.99027	120.976	115.7132	-4.16117	0.02664	0.24032	133.9067	32.10442
0.6365	1.02981	2759.983	2856.736	-1.08433	0.07499	0.92223	2772.272	2556.157
0.89976	1.01289	768.0502	772.781	1.06935	0.34295	1.06935	707.7051	757.5606
0.53912	0.93474	355.8492	333.7587	-1.09925	0.54178	0.90971	324.708	297.4291
0.72058	1.05014	204.6216	215.0233	1.03189	0.85277	1.03189	223.1206	230.1753
0.25499	0.78846	518.3943	418.9095	-1.86224	0.00043	0.53699	358.512	194.4744
0.22715	1.07081	1411.194	1512.142	1.2034	0.00947	1.2034	1322.895	1590.462
1.15E-08	0.71472	2228.865	1592.834	-1.02501	0.70488	0.9756	2142.202	2102.068
0.0874	1.09863	853.0043	937.9103	-1.13278	0.10103	0.88278	858.449	756.644
0.59107	1.13032	110.654	125.1171	1.6847	0.04467	1.6847	103.1098	173.7691
0.54037	0.94027	825.5537	772.34	1.27385	0.0002	1.27385	773.8611	985.0675
0.04193	0.75778	1584.517	1199.372	1.58844	4.20E-14	1.58844	1275.364	2028.917
0.12505	0.8035	575.0273	467.7675	-1.13276	0.35	0.8828	460.7676	402.8341
0.79778	1.03525	243.6722	251.4138	-1.13923	0.33281	0.87779	360.3414	314.8497
0.26092	1.15401	1276.394	1472.969	-1.07906	0.32729	0.92673	3543.246	3271.42
0.48677	1.03161	1392.008	1436.113	-1.15682	0.06907	0.86444	1511.738	1307.46
0.00049	1.22746	1249.737	1533.594	1.40547	6.97E-08	1.40547	1103.153	1553.141
0.84916	1.02976	185.8129	191.3174	1.00264	0.98788	1.00264	187.1777	187.7794
0.5051	0.86868	246.0326	213.7073	-1.35545	0.14843	0.73776	243.156	181.3232
0.4049	0.89944	637.6204	578.6181	-2.09632	0.00133	0.47703	375.4982	182.9055
0.13681	0.9132	1205.372	1103.253	-1.12368	0.0787	0.88993	1365.541	1213.296
0.41091	0.81137	335.2124	290.4561	-1.4839	0.01288	0.6739	377.0491	256.5545
0.76984	1.02166	2391.645	2435.36	1.08205	0.17303	1.08205	2095.974	2271.291
0.50779	0.86712	184.6014	161.8599	-1.15755	0.53029	0.86389	151.3884	130.6803
0.85602	0.97973	518.543	503.9578	1.03693	0.7362	1.03693	433.3651	447.7073
0.96571	0.996	19036.82	19018.78	-1.04824	0.53548	0.95398	18804.14	17925.8

0.21502	1.05182	12132.76	12762.66	-1.08987	0.20442	0.91754	12118.38	11097.93
0.02039	1.15717	5209.029	6022.877	-1.21963	0.00165	0.81992	6333.524	5167.639
0.93037	1.00572	9750.803	9808.428	1.21549	0.00079	1.21549	8707.462	10576.33
0.2225	0.925	1349.969	1251.906	1.08013	0.237	1.08013	1210.297	1304.642
0.02615	0.7525	2365.772	1753.469	1.13715	0.25613	1.13715	1906.282	2177.296
0.50969	1.03789	1366.645	1416.27	-1.0374	0.43187	0.96395	1579.719	1523.155
0.52579	0.94611	1172.478	1113.302	-1.11583	0.10035	0.89619	910.6762	816.775
0.46839	1.04238	949.2399	988.1058	-1.03821	0.4838	0.9632	1053.153	1013.936
0.86618	1.05357	108.9682	113.4978	-1.00746	0.98292	0.9926	101.8968	100.5849
0.64069	1.03623	2378.375	2457.768	1.08642	0.22098	1.08642	2643.401	2885.087
0.03077	0.89698	2230.917	2003.83	-1.10554	0.26771	0.90453	1692.371	1535.78
0.58838	0.92318	1053.382	979.941	-1.49061	1.07E-09	0.67087	946.1989	634.199
0.07224	0.83273	4695.655	3906.98	2.08631	2.29E-14	2.08631	4146.924	8686.254
0.22193	1.07269	1741.254	1870.442	-1.15414	0.07172	0.86645	1931.211	1667.189
0.81325	0.96982	1255.92	1223.241	-1.40034	1.57E-11	0.71411	1263.945	902.5813
0.02753	0.69667	846.3743	579.8566	-1.52336	0.00436	0.65644	703.5186	464.4647
0.01237	0.83734	1869.078	1565.497	1.05161	0.52474	1.05161	1684.96	1771.4
0.96648	1.00235	3149.169	3152.778	-1.64703	1.57E-29	0.60715	3270.051	1985.419
0.28038	0.76506	4670.357	3410.949	-5.9858	0	0.16706	4231.768	707.3318
0.00679	1.13661	7232.674	8224.823	1.0012	0.98018	1.0012	7287.409	7289.271
0.00234	1.27627	4932.776	6293.228	-1.79038	1.20E-12	0.55854	7532.208	4173.016
0.00194	0.82426	689.6059	568.3677	-1.23902	0.00254	0.80709	600.5902	484.6085
0.12216	0.92312	2634.074	2430.497	1.56932	4.91E-07	1.56932	2336.48	3663.773
0.3598	1.09425	593.6066	653.4972	1.05485	0.39568	1.05485	1202.831	1269.271
0.28125	0.89315	702.1932	631.3951	-1.24918	0.10035	0.80053	564.7649	447.5685
0.51287	1.11557	252.3299	277.7282	1.51956	0.00564	1.51956	239.5877	365.5791
0.00854	0.71902	534.0062	379.9652	-1.18078	0.18723	0.8469	424.5425	357.3702
0.70136	1.03425	870.798	895.5089	1.06474	0.36508	1.06474	969.5364	1033.626
0.94994	0.9386	37.77299	36.19291	1.233	0.83451	1.233	40.56699	56.79692
0.15339	1.09781	952.0134	1043.591	1.38691	5.18E-08	1.38691	906.2931	1257.641
0.00075	1.26171	19736.27	24807.75	-1.71269	4.42E-06	0.58388	28080.46	16150.34
0.10928	0.88287	1426.147	1258.516	-1.08269	0.2562	0.92362	1437.032	1325.214
0.05307	1.15239	1422.778	1639.925	1.04377	0.55822	1.04377	1296.891	1350.186
0.78514	1.01581	6260.541	6384.077	-1.071	0.23922	0.9337	6622.261	6189.979
0.75519	1.04937	222.9101	233.1995	1.41644	0.09695	1.41644	186.3376	260.562
0.52406	1.03705	1206.126	1253.049	-1.04327	0.52734	0.95852	1422.256	1361.008
0.80321	1.02474	369.2483	377.5512	-1.1477	0.21114	0.8713	373.6493	325.5701
0.00979	0.87055	2128.938	1851.959	1.141	0.09218	1.141	1964.62	2243.723
0.00018	0.73397	6725.759	4949.795	-1.40735	0.0023	0.71056	4075.486	2865.21
0.21851	0.78395	3025.669	2304.598	-2.2566	3.65E-10	0.44314	1976.202	865.2193
0.1054	0.90167	6856.614	6217.725	2.38723	1.12E-15	2.38723	6246.099	15005.45
0.98572	1.00624	87.23354	87.18907	1.09154	0.80569	1.09154	86.13837	94.22377
0.46749	1.04023	2327.289	2419.344	-1.16861	0.00069	0.85571	2510.342	2148.622
0.67616	1.06744	2313.406	2366.854	-1.75907	5.67E-19	0.56848	4189.121	2384.919
0.85724	0.78002	25.66962	21.56473	1.07285	0.95825	1.07285	22.55256	34.08807
0.01635	0.73881	1465.388	1063.175	-1.13033	0.23245	0.8847	1273.136	1132.199
0.31457	0.92104	797.9418	737.4935	-1.1164	0.14683	0.89574	796.7155	712.1514
0.12539	0.88912	1435.962	1282.354	-1.17122	0.07283	0.85381	1349.002	1145.115
0.54789	0.96755	4217.41	4080.199	1.36024	9.41E-07	1.36024	4214.62	5730.64
0.32567	1.07354	699.0809	750.8451	1.0787	0.27714	1.0787	1313.472	1412.452
0.95126	0.98802	1330.72	1309.816	-2.85659	2.66E-14	0.35007	1915.091	660.8732
0.52827	1.06327	1284.733	1356.987	2.52116	1.81E-39	2.52116	1319.702	3326.062

0.63964	0.97036	874.2051	849.5455	-1.24893	0.00147	0.80068	852.6715	682.0654
0.44761	0.947	8864.646	8409.666	1.00829	0.89518	1.00829	8894.074	8960.146
0.09978	1.11058	804.7745	895.6119	1.10135	0.30335	1.10135	842.9857	925.1614
1	1	18.44344	22.36622	1	1	1	18.39873	31.80954
0.15076	1.08936	1530.763	1665.001	1.01209	0.85044	1.01209	1647.794	1667.839
0.11576	1.08215	9193.562	9977.229	-1.32619	0.00001	0.75404	14625.39	10985.79
0.81913	1.02405	1196.617	1221.968	-1.00787	0.90351	0.99219	1117.717	1111.134
0.79568	1.03744	454.5016	475.0147	-1.01621	0.86817	0.98405	414.9299	407.8459
0.3987	0.94728	1508.684	1426.912	1.23421	0.0008	1.23421	1460.224	1803.601
1.54E-06	0.57267	3838.021	2208.197	-1.17436	0.01087	0.85153	3539.396	3011.172
0.94169	1.1001	28.18414	34.02812	-1.17426	0.85306	0.8516	41.21744	34.89857
0.12101	1.22238	559.7084	677.7133	1.63919	4.08E-09	1.63919	613.7235	1007.946
0.6541	1.04165	1519.981	1607.943	-1.20721	0.00572	0.82836	1450.862	1197.781
0.68757	1.12093	158.826	172.547	1.53715	0.02785	1.53715	155.0285	238.1797
0.37597	1.0614	782.6095	831.8118	-1.0898	0.4433	0.9176	701.767	640.8513
0.00529	1.15651	1040.632	1203.377	-1.01627	0.81271	0.98399	1137.486	1117.748
0.0209	1.40351	69303.52	96851.16	-1.81836	0.0004	0.54994	106324.3	56735.24
0.78254	0.95649	2124.125	2021.916	-2.42095	1.51E-27	0.41306	2027.261	835.2587
0.95777	0.97453	77.2372	74.82761	-1.05096	0.9318	0.95151	77.64225	73.52197
0.00768	1.14353	4578.636	5239.684	1.09964	0.12164	1.09964	5393.94	5916.144
0.76026	1.18787	49.3846	58.20333	-1.5466	0.5491	0.64658	60.0791	38.89442
0.24955	1.08648	463.4691	503.2051	1.19549	0.11732	1.19549	478.0148	568.3524
0.74367	0.96267	2647.786	2556.457	1.01336	0.8646	1.01336	2322.171	2359.929
0.2323	0.94735	1392.055	1318.881	-1.07598	0.36019	0.92939	1548.064	1434.755
0.02498	0.82271	503.5627	415.2159	-2.8501	7.23E-15	0.35086	467.6824	164.4601
0.01465	1.50576	13646.67	20237.06	-5.85965	7.74E-23	0.17066	26458.79	4292.796
0.20291	0.85829	3140.299	2668.203	1.38663	0.0002	1.38663	2652.329	3702.567
0.49777	0.92692	1670.948	1557.2	1.72251	4.63E-07	1.72251	1477.475	2567.974
0.45664	1.05267	648.4894	681.4183	-1.12287	0.07651	0.89058	671.0305	597.7231
0.00577	1.26337	791.2236	998.8835	1.50017	0.00145	1.50017	735.4685	1099.885
0.05766	1.09897	2679.44	2950.134	1.1112	0.03576	1.1112	3068.057	3408.244
0.36067	1.07728	1341.687	1441.857	1.28807	1.07E-06	1.28807	1377.121	1773.845
0.57706	1.08697	193.9447	210.6683	1.41736	0.09221	1.41736	184.5949	258.9193
0.56256	1.06783	1642.085	1761.135	1.10595	0.15293	1.10595	1476.859	1634.252
0.30444	1.04774	1547.474	1621.81	1.08162	0.12971	1.08162	1471.701	1593.651
0.83993	1.00965	5242.848	5300.847	-1.09718	0.14371	0.91143	5645.547	5130.892
0.32902	1.09469	2921.704	3182.899	-1.04093	0.62403	0.96068	3410.438	3321.333
0.10146	0.82683	97288.06	81534.81	-1.09789	0.24873	0.91083	124875.9	112821.5
0.28445	1.07789	908.9905	977.184	1.16105	0.00307	1.16105	1071.985	1244.426
0.2658	1.10194	425.2528	467.5364	-1.25431	0.02154	0.79725	394.5356	314.4321
0.09425	0.919	1897.989	1745.265	-1.10281	0.03728	0.90678	1834.69	1663.469
0.49762	1.03186	3489.412	3595.472	-1.18145	0.00014	0.84642	3631.591	3073.928
0.00016	0.83291	3279.19	2736.617	-1.01371	0.74709	0.98647	3204.634	3161.443
0.92967	1.01422	190.5808	193.0584	1.16404	0.35659	1.16404	231.1693	268.0616
0.38586	0.89561	492.8657	445.9298	1.63992	4.72E-08	1.63992	375.1513	616.1696
0.46319	1.10616	337.4571	372.1282	-1.01842	0.82581	0.98192	798.7808	783.3668
0.6519	0.94179	1881.031	1797.664	1.01592	0.85896	1.01592	1230.667	1249.958
0.09371	1.13766	2520.532	2877.733	1.29035	1.98E-08	1.29035	2431.399	3136.271
0.37826	1.05868	4053.783	4292.271	1.00858	0.84561	1.00858	6058.763	6108.35
0.8497	1.01649	397.0706	404.0211	-1.07101	0.66317	0.9337	396.2534	366.5616
0.00087	1.16488	6861.461	7989.874	-1.17251	0.02352	0.85287	8097.831	6899.209
0.65972	1.03153	636.0468	655.105	1.02336	0.7739	1.02336	495.1624	506.5289

0.97843	0.99678	1419.738	1403.608	-1.59357	0.00103	0.62752	2061.842	1287.511
0.43193	0.80093	164.8469	135.4724	-1.00657	0.98783	0.99348	105.9001	108.4949
0.45133	0.92106	1120.136	1024.689	-1.11463	0.05989	0.89716	1065.949	955.6372
0.1484	0.82245	3965.222	3254.111	1.02726	0.79068	1.02726	3272.647	3360.499
6.49E-07	0.55113	987.5499	546.1033	-1.20493	0.25275	0.82992	783.9241	641.8865
0.59722	0.95402	636.0317	609.3255	-1.31574	0.00767	0.76003	698.5313	528.4138
0.86139	1.01901	7422.01	7658.359	1.44246	0.00338	1.44246	8121.738	11599.23
0.04308	1.21319	14031.1	16895.21	-2.61048	8.40E-25	0.38307	20776.86	7858.208
0.8223	1.02095	1368.182	1405.274	-1.27502	7.07E-06	0.7843	1381.128	1082.871
0.003	0.76805	747.252	571.4611	1.39878	0.00009	1.39878	608.8026	849.4749
0.79259	1.02173	1994.577	2044.132	-1.15921	0.00179	0.86265	2133.084	1840.735
0.42902	1.05664	760.6984	802.4368	1.51877	7.90E-13	1.51877	711.5346	1080.413
0.22343	0.6074	109.5025	65.49574	-1.06375	0.92559	0.94007	63.21612	59.21062
0.85447	1.03356	245.933	251.1588	1.03728	0.78406	1.03728	246.7168	256.1151
0.82715	0.93712	155.3714	141.8302	-1.01143	0.94867	0.9887	225.7845	223.5412
0.00539	1.13685	1352.434	1537.135	1.21185	0.00051	1.21185	1330.219	1612.021
0.62968	1.05735	318.7289	338.3061	1.05695	0.46968	1.05695	699.0119	739.9112
0.00001	0.57047	3264.734	1841.042	-1.81566	1.44E-25	0.55076	2513.955	1384.244
1	1	19.06904	21.63974	1	1	1	17.95824	28.60579
0.94186	0.93	37.21098	34.91254	1.22319	0.78751	1.22319	39.45821	48.2385
0.9003	1.00653	1100.813	1108.842	1.16794	0.10852	1.16794	929.4513	1083.517
0.59788	0.90456	182.7235	164.3861	-1.04933	0.84002	0.95299	145.7614	138.5853
0.16533	1.09978	2036.066	2247.254	1.03965	0.49338	1.03965	1995.713	2073.98
0.55436	1.06321	466.5758	499.0097	1.85301	0.00002	1.85301	322.613	602.502
0.64055	1.08371	167.4666	181.4474	1.25876	0.32007	1.25876	154.3931	193.6252
0.68482	1.02602	4688.531	4841.689	-1.11042	0.06784	0.90056	3942.702	3541.774
0.06816	0.7456	362.1997	266.27	1.12284	0.44018	1.12284	276.3486	311.3365
0.07952	0.85867	61666.41	53093.09	1.10374	0.35028	1.10374	71577.27	78893.42
0.60399	0.97761	11786.38	11517.1	1.13419	0.13256	1.13419	11318.29	12866.96
0.7188	0.94127	206.4163	193.8218	-1.04332	0.88557	0.95848	133.984	127.364
0.16173	1.06559	1751.016	1865.769	-1.15859	0.0078	0.86312	2124.11	1831.287
0.69535	0.97831	6234.923	6090.584	1.05467	0.26194	1.05467	6582.043	6937.766
9.01E-07	1.37779	2033.748	2819.126	2.94856	5.89E-22	2.94856	1872.191	5542.519
0.55989	1.06645	301.5624	322.4542	1.05508	0.61317	1.05508	305.0776	321.8945
0.57217	1.0851	252.6111	274.1487	1.02161	0.91207	1.02161	238.1376	243.5199
0.29235	0.89383	4037.3	3636.902	2.47129	1.81E-21	2.47129	4294.308	10620.18
0.63277	0.95834	459.7277	441.5172	-1.02971	0.75353	0.97114	424.5743	411.8614
0.62033	0.95016	422.2786	402.527	-1.09175	0.49662	0.91596	444.0161	403.4981
0.71606	0.82634	63.19312	52.56723	1.81684	0.24735	1.81684	54.95019	100.028
0.4215	1.0567	1132.948	1196.496	1.5062	8.35E-14	1.5062	1164.252	1753.909
0.52896	0.97295	2659.044	2587.281	1.17602	0.00251	1.17602	2509.925	2949.898
0.69963	1.08079	986.5261	1076.666	-3.65417	3.48E-09	0.27366	873.3184	238.9923
0.41844	1.03428	3532.317	3654.053	-1.18892	0.00003	0.8411	3800.886	3196.899
0.00726	1.27809	8899.807	11240.9	-2.52738	6.45E-16	0.39567	16059.17	6175.665
0.95714	0.98553	163.3883	160.588	1.0417	0.86187	1.0417	185.8113	196.0128
0.79893	1.0233	583.5606	594.5572	1.00429	0.96367	1.00429	612.5601	617.1232
0.06828	1.11649	1584.019	1774.417	-1.29796	0.0028	0.77044	1651.437	1270.671
0.81952	0.84626	63.44743	58.8592	-1.17961	0.82501	0.84774	58.48137	48.36961
0.41679	0.94757	11394.01	10790.76	1.44618	4.31E-16	1.44618	10861.42	15710.78
0.12419	1.08755	2477.249	2699.927	1.00968	0.85955	1.00968	2651.903	2673.176
0.00009	0.84738	3387.858	2870.776	-1.01675	0.73439	0.98352	3118.098	3066.027
0.56418	1.08633	314.08	343.6122	1.02687	0.89577	1.02687	262.0701	266.2375

0.6855	0.91677	314.6485	283.9887	1.04498	0.81741	1.04498	293.9175	308.6157
1	1	17.67204	24.53273	1	1	1	18.63152	31.43423
0.906	1.14241	30.11559	34.02092	-1.24116	0.85251	0.8057	31.37244	32.06446
0.0021	0.75803	3254.008	2457.679	-2.18567	1.77E-17	0.45753	3391.238	1546.834
0.41923	0.93935	8575.761	8082.129	-1.13492	0.0113	0.88112	7328.431	6447.185
0.00003	1.67086	8095.145	13765.63	1.81305	2.43E-10	1.81305	8234.653	14955.63
0.35942	0.86732	238.0174	207.2043	-1.23476	0.33653	0.80988	202.1859	164.7548
0.30072	1.06726	2321.092	2472.337	1.03896	0.5132	1.03896	2237.661	2328.699
0.94989	0.98628	157.4819	154.3035	1.10243	0.36641	1.10243	376.933	416.5944
0.66332	0.96475	4550.542	4329.553	1.09478	0.50742	1.09478	3913.043	4155.122
0.45738	0.86664	317.0887	279.8102	-1.19443	0.39405	0.83722	294.7525	247.1393
0.6528	1.14047	121.2775	136.0341	1.31441	0.36814	1.31441	116.9844	155.6914
0.92633	1.01003	4472.678	4377.692	1.01973	0.79364	1.01973	6030.487	6117.463
0.61365	0.9491	399.8323	377.9771	1.0191	0.87768	1.0191	420.9595	426.7634
1	1	19.2444	22.90249	1	1	1	16.77343	31.26068
0.68795	0.91476	2702.861	2466.915	-3.54102	0	0.2824	2737.075	772.9738
0.00041	1.61363	253.1095	405.0645	2.33266	3.18E-11	2.33266	203.8283	474.1269
0.92693	1.00528	6752.337	6806.771	1.04007	0.53579	1.04007	5870.413	6089.259
0.04717	1.20241	878.8285	1056.222	1.75464	1.81E-28	1.75464	839.1915	1472.366
0.75538	0.73205	38.35649	28.11316	-1.04634	0.95089	0.95571	68.26466	67.14317
0.67625	0.97868	5385.73	5291.712	-1.04196	0.4748	0.95973	4940.4	4718.232
0.43797	0.92318	1227.624	1133.276	1.30998	1.47E-07	1.30998	1003.658	1314.68
0.98241	0.99673	445.9168	436.8951	1.62743	2.98E-06	1.62743	381.2647	619.098
0.9865	0.97796	20.29982	23.02341	-1.00582	0.99655	0.99422	24.97002	30.34432
0.02013	1.10866	1926.51	2135.022	1.07147	0.25837	1.07147	1840.54	1970.228
0.21501	0.66678	235.4908	146.2766	1.03838	0.86264	1.03838	161.8403	168.0497
0.84728	1.01846	815.0004	824.7148	-1.02279	0.79901	0.97772	764.6063	750.0748
0.44643	1.04873	3507.387	3682.84	-1.19278	0.01185	0.83838	3583.71	3016.224
0.23012	1.07028	3383.993	3631.015	-1.17877	0.00475	0.84834	4018.756	3407.247
0.00552	0.78981	2329.289	1846.256	1.01385	0.8408	1.01385	2157.954	2190.236
0.50574	1.02961	3887.963	4000.858	-1.00142	0.97342	0.99858	3909.821	3903.15
0.56377	1.03288	2164.971	2241.958	1.06021	0.46872	1.06021	2384.578	2515.855
0.39566	1.05306	1834.624	1927.287	1.02679	0.62676	1.02679	1706.686	1752.884
0.2106	1.1616	1514.772	1741.087	1.00546	0.97485	1.00546	1300.44	1283.88
0.01369	1.13004	2455.279	2770.763	1.1372	0.02106	1.1372	2641.141	2999.18
0.82479	1.0144	1612.776	1631.411	1.06271	0.28965	1.06271	1585.79	1684.257
0.33456	1.09216	358.0018	391.155	1.20643	0.12123	1.20643	371.3955	445.6033
0.91339	1.0071	1451.599	1469.157	-1.07345	0.17769	0.93157	2182.042	2034.448
0.11695	1.15237	24169.67	27830.46	-2.09181	8.35E-20	0.47806	29928.57	14128.52
0.00426	1.19399	7884.84	9437.465	1.33679	0.00029	1.33679	6735.276	8900.067
0.5798	0.96186	1750.491	1684.166	-1.01632	0.83766	0.98394	1530.295	1507.378
0.07323	0.73985	4687.199	3413.816	1.24811	0.15983	1.24811	4187.424	5249.944
0.4132	1.06562	768.9227	816.2153	1.06093	0.36429	1.06093	782.7761	831.1239
0.95481	0.99143	1855.291	1811.284	-1.53664	8.10E-16	0.65077	3121.135	2033.243
0.91057	1.00638	4409.693	4420.338	-1.01176	0.8344	0.98837	4603.887	4554.923
0.86774	0.98496	394.6939	389.2839	-1.14657	0.26994	0.87217	343.8652	299.499
0.61185	1.07955	230.3862	248.5963	1.77614	0.00001	1.77614	199.4973	353.8014
0.00032	1.18618	1137.305	1349.143	-1.07326	0.26873	0.93174	1264.127	1174.822
0.55304	1.02521	3314.116	3397.729	1.36369	4.13E-08	1.36369	3276.924	4467.113
0.73123	0.98011	680.9034	667.5228	-1.28904	0.00292	0.77577	1033.547	798.1599
0.45977	1.05714	551.9243	582.8602	1.06752	0.3667	1.06752	605.2045	645.9934
0.65605	0.96531	1446.013	1394.356	1.44883	1.10E-06	1.44883	1223.119	1776.227

0.61797	0.72724	56.79177	41.54646	1.44199	0.65729	1.44199	46.85503	63.71769
0.44731	0.95709	33187.24	31864.53	1.51855	4.91E-08	1.51855	35850.7	54627.66
0.00006	1.33106	3575.224	4758.539	1.32254	3.63E-06	1.32254	3611.564	4780.195
0.7147	0.93801	279.2104	259.0804	-1.09814	0.53248	0.91063	264.0942	240.926
0.95895	0.98854	1387.114	1365.182	-3.61201	1.19E-24	0.27685	1036.121	287.713
0.00127	0.73877	1227.471	902.9591	-1.33287	0.00652	0.75026	988.1317	744.0773
0.03996	1.09552	10032.72	11004.07	-1.5929	2.51E-27	0.62779	15653.42	9827.311
0.77744	0.96974	1409.453	1372.701	-1.0269	0.53761	0.9738	2513.113	2447.177
6.94E-14	0.59898	3239.566	1936.36	-1.38015	3.76E-13	0.72456	2653.599	1922.745
0.97904	0.99836	620.5219	619.7797	-1.12338	0.23919	0.89017	684.8014	607.0181
0.39494	1.05058	5139.214	5427.691	-1.00587	0.93059	0.99416	5169.474	5122.653
0.476	1.03923	1582.857	1646.813	1.09613	0.05616	1.09613	1855.742	2034.294
0.21824	1.09005	653.8886	714.1439	1.109	0.12835	1.109	568.8333	630.7792
0.00201	1.16135	2370.509	2756.085	1.0514	0.44422	1.0514	3174.437	3350.945
0.00006	1.28818	2070.031	2668.103	-1.53296	0.00027	0.65233	3278.922	2108.005
0.38866	0.93642	2245.959	2093.097	1.03456	0.65536	1.03456	2322.847	2412.968
0.11414	1.1457	708.3998	815.1452	-1.07195	0.4231	0.93288	979.291	911.4662
0.25252	0.905	547.8518	497.431	-1.22359	0.08744	0.81727	441.389	362.1699
0.04823	1.10368	1280.16	1412.478	1.19448	0.00466	1.19448	1417.933	1690.783
0.89952	1.06672	62.35276	67.62617	2.55562	0.0251	2.55562	53.87875	137.5078
0.6202	0.96473	3922.769	3828.227	-1.13776	0.06317	0.87892	3587.042	3137.092
0.64759	0.94076	2353.686	2234.749	-1.10699	0.22899	0.90335	2302.692	2078.005
0.91392	1.0078	1228.833	1243.022	-1.15323	0.04641	0.86713	1288.968	1115.526
0.31312	1.06615	2944.667	3136.859	-1.48555	7.73E-16	0.67315	3392.927	2283.443
0.8709	0.99214	4076.782	4052.228	-1.14736	0.00437	0.87157	4299.029	3747.919
0.5423	0.94927	456.1991	433.949	-1.13812	0.2793	0.87865	441.5292	389.6859
0.04245	0.83291	1040.175	862.7228	-1.01686	0.87794	0.98342	831.9739	822.1309
0.78857	1.02619	347.3315	356.0275	1.03197	0.78953	1.03197	397.7403	408.8856
0.00103	0.68326	3803.501	2567.505	1.14341	0.12437	1.14341	2756.5	3155.799
0.42587	0.90267	3437.433	3075.445	1.43042	0.00025	1.43042	3143.154	4513.884
0.49041	0.89481	522.8395	475.6893	-1.45986	0.01644	0.685	328.9279	223.9886
0.00041	1.21	2478.89	3000.401	1.36736	0.00045	1.36736	2415.123	3303.094
0.93621	0.99169	357.0665	354.7391	1.87325	6.63E-07	1.87325	304.6342	567.1
0.00886	0.81041	5599.253	4541.494	-1.29416	0.00042	0.7727	6371.076	4910.012
0.86941	1.02341	242.5778	247.7866	-1.08045	0.70451	0.92554	211.1733	196.7399
0.94502	0.91702	26.14758	27.62977	1.34637	0.85596	1.34637	22.95465	30.21128
0.93809	1.00718	1936.209	1952.016	1.20342	0.05504	1.20342	1894.056	2276.153
0.84522	1.01697	508.9264	519.2575	1.19279	0.0478	1.19279	474.8693	565.4198
0.00044	0.78962	1041.782	823.4929	1.76877	1.47E-25	1.76877	888.7731	1571.674
0.54695	0.90341	237.6817	214.9814	1.13507	0.47981	1.13507	219.3485	250.1195
0.00019	0.77542	778.4273	602.6135	-1.23743	0.01326	0.80813	674.9691	546.7358
0.53765	1.15248	131.0475	151.9021	-1.23341	0.63575	0.81076	128.0084	101.1225
0.81908	0.98492	967.3637	949.9935	1.00414	0.95831	1.00414	885.5742	887.4087
0.16074	0.86168	2612.617	2259.345	1.41799	1.49E-09	1.41799	2265.977	3212.496
0.71874	1.27841	49.20361	65.20021	-1.09714	0.94372	0.91146	29.0473	29.52421
0.78298	1.02022	991.5131	1012.674	1.29981	0.00358	1.29981	1240.634	1611.95
0.94674	1.00697	903.6431	916.5275	1.01813	0.90094	1.01813	880.4815	890.2812
0.06978	0.84034	2367.826	2009.117	1.09545	0.02713	1.09545	2200.219	2408.917
0.96782	0.99717	6919.226	6973.269	-1.09167	0.27245	0.91603	6308.385	5737.045
0.762	0.98574	3444.376	3391.667	2.00899	6.58E-10	2.00899	2836.881	5753.9
0.68258	0.96981	1342.203	1295.667	-1.07238	0.36973	0.93251	1381.53	1292.705

0.67879	0.94639	2941.36	2792.676	-1.02233	0.83608	0.97816	2763.117	2697.164
0.94231	1.01315	223.2871	226.3683	-1.06639	0.71308	0.93774	220.3224	206.5542
0.91186	0.99091	1039.897	1035.965	1.01296	0.87406	1.01296	1042.943	1053.286
0.3924	1.0568	1322.636	1396.825	-1.07222	0.22446	0.93264	1006.469	939.052
0.49712	1.14844	169.6805	193.0207	1.33136	0.15768	1.33136	182.4836	242.5576
0.19086	1.11043	5987.859	6609.495	-1.74105	4.56E-31	0.57437	6975.019	4001.734
0.73596	1.03513	1572.499	1652.193	-1.09438	0.13863	0.91376	2741.755	2499.724
0.13528	1.06379	3129.978	3329.315	1.08161	0.21482	1.08161	3327.651	3583.268
0.29545	0.817	218.3449	176.6115	-1.01335	0.95119	0.98682	184.7045	182.6713
0.89233	1.03652	167.6298	173.4117	1.07585	0.70721	1.07585	185.6816	199.0141
0.35267	1.06115	693.7199	736.7329	1.09144	0.45416	1.09144	643.4883	698.0253
0.18176	1.06814	1032.477	1102.526	-1.09189	0.18439	0.91584	1154.949	1056.127
0.29545	0.92407	28028.52	26090.95	1.03931	0.36448	1.03931	37936.16	39417.91
6.44E-07	0.7988	4089.327	3266.145	-1.08433	0.09297	0.92223	3509.514	3236.482
0.00347	0.77978	2228.783	1732.276	1.01488	0.87627	1.01488	1954.495	1988.908
0.9429	1.00812	574.2676	583.6544	-1.20922	0.07271	0.82698	559.4493	460.754
0.67255	0.86208	143.0306	128.4139	-1.24137	0.60506	0.80556	98.90656	78.91932
0.09055	0.92024	3973.377	3657.47	1.37635	0.00001	1.37635	3805.477	5242.344
0.97974	1.00263	4586.624	4624.095	-1.23712	0.00004	0.80833	4948.394	4002.585
0.00253	0.8678	5663.147	4916.784	-1.08008	0.07472	0.92586	5263.977	4874.465
0.19668	0.78662	247.3617	192.1963	-1.03274	0.89213	0.9683	197.9909	192.5268
0.42954	1.05349	1044.693	1101.923	1.22697	0.00958	1.22697	1057.592	1296.493
0.00046	0.60362	658.9708	392.0326	1.32441	0.03063	1.32441	448.7105	598.5111
0.43169	1.04529	3501.387	3671.962	-1.0795	0.29279	0.92635	3594.533	3348.325
0.36916	1.06893	1322.785	1411.775	1.01778	0.72752	1.01778	1399.614	1425.526
0.07809	0.90733	1492.675	1356.645	-1.02218	0.79309	0.9783	1436.738	1400.543
0.52347	0.94716	2957.83	2772.313	1.02703	0.74999	1.02703	2694.947	2789.883
0.46398	0.95327	1962.165	1865.365	1.02668	0.69477	1.02668	1987.326	2039.342
0.58571	0.95214	371.892	353.9213	-1.0533	0.66056	0.9494	340.1131	322.273
0.92624	0.99252	1717.419	1709.986	-1.03434	0.42304	0.9668	2419.133	2338.814
0.66963	1.02803	1310.54	1352.895	-1.02397	0.80592	0.97659	1228.72	1196.284
0.40926	0.91061	614.2406	554.6863	1.60753	1.84E-13	1.60753	531.4667	854.1848
0.93831	0.99085	986.8536	969.2773	-1.19225	0.21742	0.83875	1007.593	845.1165
0.70874	1.09443	147.8687	159.9003	1.40509	0.26356	1.40509	93.59436	131.8443
0.9117	1.01187	510.5137	513.0754	-1.21042	0.00855	0.82616	1047.237	862.9817
0.67452	1.03609	508.177	525.982	1.21295	0.02441	1.21295	433.228	524.9713
0.89838	1.02025	203.3207	206.6873	-1.04645	0.84885	0.95561	224.3563	212.834
1	1	17.06479	21.81809	1.94131	0.54534	1.94131	31.35168	68.4726
0.00013	0.67171	1768.215	1184.068	-1.03089	0.69938	0.97004	1306.27	1270.127
0.49135	1.06245	369.5242	392.1765	-1.0196	0.87229	0.98077	307.2559	300.8539
0.43301	0.94961	759.0624	722.0851	-1.03804	0.67691	0.96336	624.072	600.0451
0.29473	0.93628	2876.685	2687.624	1.04301	0.45812	1.04301	2776.282	2900.986
0.69491	1.03602	523.5137	542.7803	-1.18928	0.13399	0.84085	697.1161	583.6602
0.92295	1.01373	1189.573	1209.559	-1.68657	2.74E-09	0.59292	1320.921	780.4229
0.45634	0.53136	62.71076	32.15469	-1.09787	0.94095	0.91086	33.07183	32.07211
0.11736	1.09033	825.5513	899.9374	1.26112	0.0001	1.26112	1632.301	2055.076
0.58005	1.13806	155.6878	178.3837	1.0394	0.84071	1.0394	194.1525	202.676
0.08282	0.76024	996.8922	749.0989	-1.03312	0.80091	0.96794	1031.36	1000.184
0.71476	1.06979	399.2859	436.3168	-1.47677	0.00042	0.67716	394.4562	267.1846
0.01889	1.11519	1606.033	1792.197	-1.02078	0.73176	0.97965	1784.998	1750.701
0.64175	1.02741	3372.17	3453.206	-1.05528	0.34456	0.94762	3231.461	3073.987
0.7903	1.14661	55.06665	63.03922	-1.35778	0.74472	0.73649	43.96481	31.89336

0.56232	1.05381	842.6414	890.7696	1.55363	0.0009	1.55363	799.0062	1243.579
0.14838	0.82898	2419.011	2005.161	1.07337	0.45758	1.07337	1941.642	2088.894
0.97186	0.99477	279.9506	276.0298	-1.67472	0.00577	0.59711	248.7648	148.6139
0.00109	0.77837	3882.804	3011.115	-1.3213	2.56E-07	0.75683	3580.564	2708.499
0.60461	1.04318	1030.75	1081.518	-1.03761	0.68927	0.96375	1078.14	1034.995
0.9771	0.96617	33.70423	34.50044	1.21139	0.83813	1.21139	36.73231	46.38175
0.9919	1.00068	637.1033	638.4356	-1.10714	0.17112	0.90323	604.833	545.9622
0.04996	1.11057	3371.144	3743.857	-1.36094	3.88E-08	0.73479	3545.578	2602.601
0.45244	1.15496	972.9797	1104.266	1.48844	0.00121	1.48844	943.7363	1415.818
0.5057	0.85572	199.4306	172.863	-1.26379	0.557	0.79127	134.6829	106.8347
0.54267	0.95308	764.876	731.6945	-1.18444	0.03441	0.84428	819.2549	690.158
0.64215	0.90746	434.4617	380.4583	-1.28624	0.16938	0.77746	358.1103	281.3386
0.48403	0.94283	1342.093	1261.993	-1.15696	0.07366	0.86434	1267.082	1096.193
0.00003	0.63598	11524.2	7282.797	-1.26694	0.01079	0.7893	8891.877	7002.713
0.83556	1.1514	47.16771	54.36997	-1.10154	0.92008	0.90782	32.14297	36.21481
0.56664	1.02906	9179.357	9433.499	-1.12653	0.04009	0.88768	9053.936	8053.428
1	1	17.48336	27.06504	1	1	1	21.2933	30.92637
0.00231	1.37594	4730.833	6410.452	-2.29649	3.37E-09	0.43545	8523.768	3606.792
0.11464	0.87899	10114.43	8943.535	1.26338	2.09E-08	1.26338	9247.376	11682.94
0.6592	0.94024	557.7341	530.9786	-1.40418	0.0009	0.71216	459.3818	326.9425
1	1	19.17566	22.29634	1	1	1	16.90219	28.3392
0.34025	0.94034	6700.931	6313.543	1.14458	0.08664	1.14458	5760.562	6590.476
0.15342	0.89693	1361.535	1224.466	-1.1024	0.0639	0.90711	1181.794	1071.546
0.08221	0.90211	2466.899	2231.875	-1.18172	0.00153	0.84622	3258.797	2754.122
0.84903	1.02977	278.8185	290.1664	1.16104	0.41955	1.16104	222.4926	256.038
0.00749	0.83714	1479.506	1234.935	-1.12303	0.06779	0.89044	1334.601	1186.187
0.3403	1.05608	1948.453	2051.76	1.06091	0.21503	1.06091	2157.98	2291.146
0.01088	1.17171	2317.912	2722.456	-1.20452	0.02789	0.83021	2553.566	2122.969
0.12513	1.14494	12616.01	14383.31	1.34221	0.01005	1.34221	19119.6	25715.38
0.01653	1.1213	1552.467	1739.279	1.15085	0.00323	1.15085	1657.171	1908.433
0.87225	0.97982	348.1899	338.585	4.03884	1.08E-43	4.03884	316.2101	1276.656
0.1248	0.84802	1181.948	995.1043	1.25013	0.00118	1.25013	1134.408	1418.66
0.1597	0.88489	450.3017	398.545	1.14292	0.30879	1.14292	374.653	425.4175
0.63583	0.97623	2152.555	2100.523	1.02055	0.7737	1.02055	1931.896	1970.526
0.38593	0.7478	164.58	118.2375	-1.03274	0.93078	0.9683	154.0936	156.4965
0.28709	1.54424	76.92894	117.0116	1.75286	0.43049	1.75286	53.97571	88.55006
0.23731	1.10095	13236.29	14701.04	-1.18538	0.03799	0.84361	15093.82	12786.43
0.32077	1.0761	922.6245	994.9711	1.02887	0.7402	1.02887	1469.272	1506.318
0.39678	1.06066	5675.466	6033.689	1.36116	7.20E-12	1.36116	5450.829	7420.152
0.9255	1.00606	1474.146	1484.558	-1.05669	0.28635	0.94635	1321.499	1250.163
0.00009	0.56728	731.2533	408.3748	-1.22707	0.04728	0.81495	459.8552	374.3789
0.01984	0.82671	1564.757	1293.543	1.10995	0.05561	1.10995	1397.589	1552.55
0.00465	1.23677	2832.822	3540.989	-1.36588	0.0007	0.73213	4613.957	3346.539
0.07453	0.84631	2481.5	2084.63	-1.00729	0.9335	0.99276	1567.988	1564.979
0.08539	1.09848	2254.969	2477.742	-1.04726	0.50313	0.95488	1973.004	1886.438
0.95914	0.96512	60.8878	63.04787	-1.19306	0.70959	0.83818	84.97527	71.10899
0.28061	1.07729	4845.353	5213.386	-1.04513	0.32847	0.95682	5281.449	5050.044
0.79845	1.02149	2029.957	2060.573	-1.03707	0.57803	0.96425	4432.301	4262.502
0.26018	1.27082	10681.32	13264.21	-2.45177	1.67E-09	0.40787	14638.19	5912.967
0.12411	1.12318	13730.92	15311.55	-1.46046	2.44E-06	0.68472	16679.36	11424.21
0.04192	0.88712	6518.386	5787.41	1.58926	3.51E-24	1.58926	6322.3	10048.63
0.00003	0.69785	3651.674	2545.339	1.22199	0.1012	1.22199	2695.208	3325.067

0.98093	0.9897	85.51802	84.2448	1.0111	0.97893	1.0111	83.26443	83.92679
0.69003	0.97671	17308.82	16930.54	1.4342	1.15E-11	1.4342	18292.57	26203.96
0.63377	0.90436	154.1791	139.5937	-1.01418	0.95707	0.98602	134.1575	132.2719
0.07761	0.85559	1249.634	1069.286	-1.03471	0.69368	0.96646	1260.883	1221.798
0.05011	1.12166	5555.732	6225.758	-1.32514	1.05E-09	0.75464	5852.97	4420.424
0.02334	0.83277	1060.353	885.9055	-2.73813	1.05E-09	0.36521	777.4508	285.7064
0.9318	1.01775	351.1674	363.1608	-1.25608	0.08099	0.79613	319.1376	253.5421
4.93E-07	1.31881	3564.105	4696.874	-1.33502	0.00001	0.74905	4234.616	3155.419
1	1	18.98599	23.53685	1	1	1	18.21758	30.98407
0.75339	1.0281	1530.218	1576.979	-1.10476	0.12645	0.90518	1374.172	1245.178
0.25678	1.05024	1864.659	1958.163	1.06025	0.22824	1.06025	1992.875	2113.073
0.28163	1.07421	867.9264	934.9493	-1.03685	0.62528	0.96446	870.4345	837.652
0.99585	0.99741	71.67415	69.84126	5.48442	1.11E-20	5.48442	70.98103	388.7734
0.35207	0.87555	666.2308	590.1653	-1.35082	0.00136	0.74029	597.5802	441.2423
0.02131	0.68489	4154.235	2809.08	1.04257	0.75631	1.04257	3083.615	3237.713
0.58923	1.04353	1178.321	1240.98	-1.10615	0.14696	0.90404	1218.078	1098.907
0.43946	1.05838	1168.894	1230.546	1.09688	0.12741	1.09688	1220.223	1338.322
0.36963	0.94874	2231.594	2111.234	-1.05433	0.3188	0.94847	2289.016	2168.081
0.50705	0.7698	94.27037	71.85671	-1.11399	0.88917	0.89768	55.12435	49.05127
0.02293	0.53189	873.9339	436.0084	-1.16429	0.45573	0.85889	581.0991	504.1454
0.07103	1.09753	2707.944	2967.946	-1.06784	0.15349	0.93647	2969.757	2779.195
0.72449	0.9439	638.0287	591.8434	1.86024	3.13E-09	1.86024	641.1799	1195.7
0.42028	1.06498	6669.465	7105.074	-1.00446	0.93986	0.99556	6916.224	6889.068
0.02699	1.17711	563.3784	661.7775	1.18048	0.06699	1.18048	600.5676	707.2399
0.67679	0.88193	170.4292	156.3703	-3.02683	0.01948	0.33038	119.6181	39.49585
0.93339	1.01114	318.1686	319.807	-1.04793	0.75412	0.95427	284.3674	272.6607
0.84178	0.9892	2318.343	2299.349	-1.12049	0.08658	0.89247	2624.199	2338.557
0.97922	1.00331	408.6874	408.2108	1.01117	0.90088	1.01117	440.9752	445.7994
0.50484	1.06858	386.2024	413.6627	-1.12017	0.38933	0.89272	376.1224	335.5996
0.75636	0.74786	44.44493	33.82164	-1.23482	0.84515	0.80983	31.16925	31.27923
0.45417	1.04248	1264.394	1316.989	-4.63952	0	0.21554	1043.537	224.8048
0.83536	1.0377	216.7499	227.3156	1.20767	0.20739	1.20767	227.6076	275.2253
0.81617	0.97946	2989.366	2931.982	-1.25978	0.0018	0.79379	2822.318	2237.129
0.1352	1.09615	1116.498	1222.423	1.06547	0.35259	1.06547	919.1205	977.3447
0.02936	0.87474	970.9553	850.1372	1.18393	0.04878	1.18393	816.6738	969.736
0.29748	0.8324	1667.715	1399.042	-1.31961	0.02485	0.7578	765.5667	583.5607
0.84155	1.04178	176.0419	181.8075	1.11302	0.62074	1.11302	148.6702	165.3377
0.42889	1.06557	1457.203	1563.504	-1.05572	0.37038	0.94722	1623.005	1533.475
0.51344	1.09134	10625.27	11641.1	-1.85383	7.09E-14	0.53942	12237.83	6567.57
0.09216	1.10991	7065.088	7827.563	-1.16484	0.0008	0.85849	7512.277	6450.93
0.10427	1.08244	1461.886	1583.777	-1.01017	0.84763	0.98994	1697.824	1680.005
0.98557	1.00196	679.5168	675.8436	1.04585	0.44266	1.04585	851.066	889.5576
0.00269	0.78079	2084.909	1620.216	1.41105	0.00008	1.41105	1746.125	2478.348
0.04733	1.12822	14075.74	15813.9	-1.20125	0.12221	0.83246	16879.73	13866.98
0.15556	1.0943	11662.28	12755.42	1.16346	0.00017	1.16346	12372.6	14395.05
0.25049	1.05186	1919.746	2019.117	-1.09941	0.2094	0.90958	1978.047	1786.651
0.93714	1.02231	107.5936	109.8413	1.37917	0.35324	1.37917	94.57202	129.2729
0.82801	1.05597	234.7575	245.8806	1.26347	0.08905	1.26347	278.676	352.5564
0.07324	0.29703	115.8021	32.8743	1.61485	0.50368	1.61485	38.67213	62.47647
0.80193	1.02554	518.9898	529.4512	1.05803	0.41535	1.05803	518.4782	548.5975
0.38141	0.92636	1946.301	1794.572	-1.12482	0.20043	0.88903	1911.603	1713.743
0.00622	1.24078	6231.122	7693.508	-1.98785	1.08E-10	0.50305	9075.982	4495.722

0.27401	1.13162	666.9629	749.7554	1.25902	0.0006	1.25902	554.0927	697.7651
0.9002	1.00572	1405.057	1412.963	-1.07842	0.29787	0.92728	1404.743	1298.962
0.76379	0.98681	1902.528	1877.451	1.25429	0.00011	1.25429	2677.81	3354.267
0.87696	1.2421	18.08383	25.94807	2.84349	0.38643	2.84349	17.6292	51.46335
0.00301	0.70219	3082.043	2156.178	1.20436	0.00162	1.20436	2530.635	3045.184
0.85432	1.00909	2460.316	2486.387	-1.02404	0.72236	0.97653	2584.951	2515.537
0.02449	1.10505	2284.668	2523.551	1.04246	0.42365	1.04246	2588.868	2695.34
0.70406	1.02302	997.608	1018.429	-1.02473	0.67795	0.97587	980.2711	956.4825
0.11157	1.09916	12515.9	13784.59	1.18434	0.00123	1.18434	12749.57	15102.19
0.0195	0.82008	4524.847	3689.823	1.28254	0.00974	1.28254	4010.933	5155.634
0.94711	1.08065	30.75632	34.53583	-1.07092	0.94725	0.93378	27.44799	35.38509
0.64483	1.02381	1068.184	1094.214	1.08871	0.24157	1.08871	1101.538	1201.891
0.29811	1.05843	5913.245	6245.277	1.00698	0.86534	1.00698	6301.658	6346.067
0.24429	0.89504	30128.15	27022.87	-1.25315	0.01805	0.79799	28897.26	22920.13
0.76683	0.93634	244.2241	229.5461	-1.23835	0.37005	0.80753	164.9497	133.5753
0.8464	0.97018	337.3239	328.5607	-1.147	0.39887	0.87184	344.5969	297.7737
0.73445	1.03257	971.3153	1006.317	-1.07547	0.31924	0.92982	837.3687	779.5616
0.64894	0.92093	179.2658	165.0908	1.09441	0.74981	1.09441	148.6196	161.2993
0.6389	1.0414	622.6108	645.7036	-1.24185	0.00306	0.80525	611.8433	492.7919
0.84544	1.03081	206.4247	212.8082	1.11184	0.56291	1.11184	213.0221	235.7454
0.69315	0.84604	77.48613	65.60793	1.12309	0.88426	1.12309	42.46604	47.8606
0.32834	0.93264	636.6583	594.8861	-1.10337	0.3417	0.90631	575.9232	522.5665
0.00584	0.83343	3969.138	3298.216	-1.10676	0.39884	0.90354	2940.623	2671.131
0.09405	1.09657	9479.445	10424	-1.11434	0.02556	0.89739	10004.11	8968.76
0.09063	1.08668	1398.464	1520.966	1.11795	0.06806	1.11795	1578.252	1761.41
0.39225	1.06687	3034.008	3266.402	1.04695	0.56175	1.04695	3118.508	3260.399
0.01028	1.13634	3418.805	3882.536	-1.29153	0.0005	0.77428	5668.705	4380.74
0.06675	0.80819	4082.779	3301.082	1.12888	0.19218	1.12888	3521.932	3971.177
0.97552	1.00595	260.9848	268.3582	-1.34059	0.21534	0.74594	273.4135	202.0439
0.43316	1.06253	3656.057	3926.191	-1.05218	0.44749	0.95041	3842.371	3630.564
0.99255	0.99918	644.9918	643.2064	1.05383	0.43573	1.05383	838.2272	884.1994
0.63427	1.03412	562.9171	582.761	-1.32952	0.01748	0.75215	608.9196	460.741
0.57861	1.04455	912.4079	958.5372	-1.20972	0.09933	0.82664	901.4004	740.7905
0.18141	0.93437	22279.93	20822.11	-1.25666	0.00036	0.79576	21216	16854.77
0.76754	0.9741	787.6744	771.6931	-1.12396	0.26048	0.88971	785.642	695.5538
0.62459	0.97207	8693.514	8484.552	-1.05633	0.35711	0.94667	8308.53	7847.807
0.20275	1.11026	791.8759	875.1126	-1.01941	0.8035	0.98096	914.4673	899.4594
4.18E-10	0.62479	2694.858	1675.529	1.04098	0.59782	1.04098	1989.595	2076.639
0.87499	0.98723	4912.665	4855.243	1.23812	0.00029	1.23812	4713.311	5845.225
0.83626	1.06224	124.1844	130.4366	1.91286	0.0323	1.91286	120.1431	225.8181
0.00154	1.19862	3105.182	3722.962	-1.81331	5.03E-33	0.55148	3518.234	1938.956
0.44777	0.94115	468.4936	440.2773	1.00312	0.97919	1.00312	405.1285	408.5197
0.84357	1.04996	129.3767	136.7186	-1.26399	0.41255	0.79115	163.0279	127.4578
0.82868	1.02388	311.9252	318.5364	-1.14696	0.28271	0.87187	317.0927	276.9287
0.81208	1.07903	125.9966	132.4171	1.85551	0.19066	1.85551	90.21154	170.5461
0.4849	0.93165	10481.18	9846.122	1.14422	0.04954	1.14422	13738.23	15696.07
0.83953	1.09534	87.27486	94.3385	-1.11576	0.77344	0.89625	109.3008	97.65681
0.41782	1.20763	151.4104	184.1617	-1.14815	0.61789	0.87097	140.8754	122.6786
0.00917	1.14696	1308.926	1501.7	1.26821	0.00064	1.26821	1247.196	1581.294
0.21274	1.06477	3030.261	3223.058	1.08589	0.07429	1.08589	3376.36	3667.133
0.04681	0.90053	18693.63	16788.24	-1.28303	0.09645	0.7794	18766.23	14694.98
0.2581	1.07513	3516.109	3769.569	-1.00573	0.90007	0.9943	3868.533	3847.068

0.05014	0.83885	1737.695	1462.795	1.22425	0.0007	1.22425	1915.349	2339.876
0.92596	0.89053	35.19976	36.31877	1	1	1	18.1576	28.73405
0.33564	0.82766	439.6414	352.9869	1.26538	0.16466	1.26538	318.2065	402.1525
0.4961	0.93821	2333.897	2184.527	-2.12694	4.82E-12	0.47016	1843.617	864.9883
0.00624	1.16985	3512.313	4112.049	1.20854	0.00061	1.20854	3426.031	4140.724
0.29826	0.93314	3656.307	3402.752	1.59354	3.50E-09	1.59354	3293.231	5264.155
0.45477	0.96099	881.3681	846.7947	-1.10161	0.22821	0.90776	915.3793	833.4681
0.93964	0.98833	304.8549	297.2927	-1.04965	0.80794	0.9527	231.6612	218.6866
0.50837	1.05018	804.822	848.3231	-1.06761	0.52857	0.93667	846.6489	788.5479
0.00012	1.18807	2129.342	2528.603	1.24806	0.00262	1.24806	2224.673	2780.17
0.19811	0.90824	694.8829	632.548	-1.14341	0.26054	0.87458	675.5365	586.7626
0.28817	1.04817	2736.069	2868.514	-2.02677	5.98E-16	0.4934	2586.805	1272.873
0.05669	1.11606	8809.706	9847.018	1.07792	0.29348	1.07792	9203.898	9923.454
0.95392	0.98915	205.8447	203.6467	1.04634	0.82138	1.04634	192.5067	201.2895
0.95677	0.94806	32.03938	30.60775	1.0111	0.99072	1.0111	36.67693	36.98842
0.82267	0.98804	8956.686	8863.36	-1.10687	0.02811	0.90345	8056.834	7263.901
0.53028	0.9592	1892.729	1816.963	1.08217	0.12369	1.08217	1658.347	1795.657
0.9059	0.9789	191.6837	188.2087	-1.05497	0.80573	0.94789	188.3615	178.6508
0.45201	1.04743	1046.391	1095.015	-1.14406	0.02523	0.87408	1084.726	947.6624
0.75271	0.89254	135.5738	128.0902	-1.51778	0.22709	0.65886	112.8084	74.35988
0.51547	1.04238	1699.092	1765.605	-1.00526	0.91258	0.99476	1596.125	1587.812
0.27241	0.84687	2047.72	1747.011	-1.91118	2.65E-07	0.52324	1027.235	538.4478
0.92967	1.01081	719.9557	734.8566	-1.11166	0.37714	0.89955	814.5177	727.3458
0.60293	1.04221	422.6564	440.5029	-1.02941	0.77071	0.97143	416.8408	404.699
0.39642	0.92109	2350.674	2168.702	1.00118	0.98287	1.00118	2410.396	2416.696
0.59454	1.02324	2029.971	2077.54	-1.08161	0.08321	0.92455	2158.085	1994.451
0.85673	1.0221	322.1722	328.8707	1.01924	0.89145	1.01924	328.5608	335.0851
0.2099	1.28754	145.6808	188.1075	1.29706	0.39232	1.29706	119.9288	156.6436
0.88627	1.01292	4957.903	5029.744	1.42869	0.00029	1.42869	4483.799	6436.772
0.57178	1.02965	1959.502	2021.378	1.16181	0.00693	1.16181	1925.221	2234.056
0.01931	0.78777	10590.83	8414.784	1.59961	1.71E-23	1.59961	8591.852	13742.26
0.98137	1.00243	535.4147	533.2937	1.22435	0.00277	1.22435	521.9346	639.2003
0.00064	0.67411	6213.476	4183.931	1.86655	4.98E-15	1.86655	5398.773	10100.46
0.99836	1.001	70.47129	69.72311	1.13555	0.77548	1.13555	73.08717	82.9935
0.00896	1.18607	938.6567	1110.539	1.22274	0.00075	1.22274	1081.102	1323.189
0.65455	1.10433	186.0428	202.0196	1.20141	0.32207	1.20141	232.2844	279.1755
0.22499	0.86554	664.1436	569.319	1.1494	0.04881	1.1494	554.6735	637.686
0.0001	1.31307	14771.94	19301.48	-1.83789	3.71E-07	0.5441	21961.62	11825.12
0.45392	1.05993	948.7937	1008.102	1.14048	0.1254	1.14048	956.4882	1088.555
0.49447	0.90947	1177.552	1073.162	-1.36728	0.00003	0.73138	1015.581	742.1359
0.38335	1.05583	668.7164	706.7101	1.04496	0.57005	1.04496	662.3875	690.8862
0.67415	1.03294	661.6909	685.3208	-1.18355	0.03236	0.84492	556.7955	470.2871
0.40878	1.04243	20568.28	21416	-1.20639	0.00036	0.82892	23069.01	19112.66
0.07459	0.90951	1189.061	1081.38	1.61023	3.48E-24	1.61023	1292.63	2081.436
0.3716	0.91687	1782.63	1648.867	1.03192	0.62575	1.03192	2385.898	2461.953
0.20587	1.08481	655.4077	710.2335	-1.08879	0.26511	0.91845	657.7599	603.525
0.79291	1.02312	1555.876	1601.735	-1.20466	0.02168	0.83011	1805.867	1496.125
0.81973	1.02195	3424.973	3478.848	-2.00914	5.10E-17	0.49773	4308.413	2133.334
0.93349	1.03363	81.76908	83.62561	1.14681	0.76386	1.14681	94.74819	111.2885
0.00261	1.27106	4209.322	5334.943	-2.38495	1.98E-10	0.4193	6892.368	2825.666
0.07222	1.08816	3504.539	3820.042	-1.01879	0.77953	0.98155	3694.421	3617.791
0.12684	1.12352	2578.681	2915.795	-1.55184	1.52E-13	0.6444	3300.81	2125.258

0.39669	0.94963	1559.01	1482.486	-1.04766	0.51746	0.95451	1373.371	1313.03
0.89061	1.0098	1216.804	1227.859	-1.08729	0.15376	0.91971	1107.705	1019.327
0.47597	0.92739	2064.133	1919.905	1.36243	2.60E-11	1.36243	1796.343	2446.914
0.31201	1.0531	1330.584	1402.165	-1.04634	0.36569	0.95572	1662.58	1587.813
0.0227	0.81817	489.0548	400.16	1.08515	0.65549	1.08515	366.9052	399.5696
0.76203	0.98097	1160.985	1140.053	-1.21603	0.00204	0.82235	979.9335	804.9282
0.91333	0.99125	1964.517	1928.787	1.01311	0.81827	1.01311	1909.316	1940.621
1.05E-13	0.70663	2839.104	2006.082	1.19956	0.0025	1.19956	2479.675	2975.522
0.65933	1.05942	512.1293	536.9597	1.04089	0.62236	1.04089	548.2974	571.6013
0.8883	0.97077	489.1693	485.793	-1.80491	0.00021	0.55404	352.9658	194.7413
0.22171	1.1665	14261.74	16488.85	-1.61538	0.00023	0.61905	17651.18	10681.88
0.44784	0.93399	1207.823	1133.264	1.08104	0.39875	1.08104	1119.057	1206.612
0.36777	0.81671	802.1469	665.1248	-3.6848	0.00001	0.27139	541.9119	147.0669
0.72946	1.02579	521.8271	535.9736	-1.08343	0.34207	0.92299	468.7247	432.4041
0.32268	1.06307	1225.98	1308.225	1.02914	0.66348	1.02914	1197.65	1229.297
1	1	19.15536	25.03811	1	1	1	18.65985	30.24177
0.90081	1.01314	583.8618	587.5477	1.069	0.51527	1.069	502.1478	538.9312
0.89551	0.94077	83.14325	77.85572	1.07054	0.85432	1.07054	102.9161	110.2848
0.46271	0.90665	1349.906	1231.849	1.23192	0.00511	1.23192	1537.438	1899.362
0.43707	1.04866	2566.977	2686.809	-1.39777	6.05E-10	0.71542	2455.633	1757.368
0.50057	1.06192	1094.813	1169.29	-1.50612	2.50E-08	0.66396	884.9815	588.3799
0.88096	1.0464	120.9283	124.4217	1.4484	0.30024	1.4484	96.61743	139.6238
0.00027	0.85545	11324.89	9687.988	-1.06767	0.26611	0.93662	10665.48	9968.76
0.08303	1.10607	3249.591	3593.869	-1.01025	0.81981	0.98985	3604.134	3565.105
0.23827	0.86843	1440.12	1256.469	-1.16309	0.19269	0.85978	1552.237	1328.417
0.01234	1.13006	1522.683	1719.681	1.11055	0.10025	1.11055	1581.05	1754.5
0.59035	0.90987	1562.965	1427.066	-1.70513	4.59E-19	0.58647	1235.307	723.8619
0.92782	1.01982	530.7313	552.8887	-3.74835	0.0015	0.26678	263.3647	64.69823
0.00003	1.2206	1659.035	2026.52	1.23783	0.00047	1.23783	1803.104	2232.713
2.73E-08	0.71153	2169.404	1544.701	-1.08578	0.13573	0.921	1708.91	1570.951
0.47932	1.04857	9070.982	9512.917	-1.06739	0.2934	0.93687	7803.517	7290.286
0.59401	0.84434	152.13	131.5337	-1.19145	0.63194	0.83931	108.9638	92.0267
0.2766	1.2123	236.8767	282.9943	-1.76291	0.00606	0.56724	243.8816	139.0784
0.99845	1.00039	245.1984	247.6825	-1.12097	0.58872	0.89208	240.0318	214.6366
0.50949	0.97004	2244.904	2179.186	-1.12104	0.10238	0.89203	2274.454	2015.287
0.65986	1.02441	7682.207	7851.742	-1.04147	0.36308	0.96018	8085.679	7757.271
0.73211	1.03733	590.2064	607.9782	-1.15593	0.03856	0.8651	617.494	534.3055
0.92198	1.00651	4963.432	5023.64	-1.08462	0.29643	0.92198	5030.535	4635.929
0.44577	1.0669	1614.876	1721.305	1.12845	0.02667	1.12845	1882.679	2121.204
0.36254	0.83489	13138.65	10323.96	-2.56553	1.42E-29	0.38978	10719.31	4153.311
0.59874	1.38545	59.15866	77.02329	-1.07971	0.86392	0.92617	83.11035	77.47752
0.95535	1.02069	92.92783	94.96445	-1.18782	0.61741	0.84188	106.6076	89.42931
0.0348	0.90815	3392.193	3079.809	-1.08978	0.07156	0.91761	3189.481	2925.806
3.28E-07	0.72791	1880.525	1367.289	-1.14648	0.19357	0.87224	1475.652	1290.984
0.1086	1.08337	18493.43	20040.56	1.12183	0.08465	1.12183	18910.34	21225.75
2.05E-12	0.73678	7571.009	5578.023	-1.04131	0.50576	0.96033	6577.674	6323.413
0.62124	0.97452	1761.214	1717.419	-1.10145	0.11557	0.90789	1658.722	1506.576
0.18946	1.08356	1257.03	1363.844	-1.03663	0.64001	0.96466	1409.67	1354.509
0.83162	1.06896	25671.89	24910.75	-18.0145	0	0.05551	38857.63	2133.859
0.16867	0.89543	2445.958	2181.185	-1.33704	0.00002	0.74792	2280.787	1705.471
0.45963	1.18637	184.2224	215.4705	1.26153	0.24287	1.26153	212.4211	268.0239
0.36591	0.90566	564.2527	514.7655	-2.81923	1.19E-08	0.35471	446.4245	156.9782

0.06257	1.14797	2585.794	2992.626	-1.23469	0.00102	0.80992	4226.789	3421.479
0.00143	1.17194	936.303	1097.229	-1.15953	0.02373	0.86241	1123.982	967.6585
0.08826	0.88699	1038.621	922.0586	1.24832	0.00004	1.24832	1125.316	1404.161
0.63631	0.96272	10583.41	10232.95	-1.078	0.3596	0.92764	10802.48	9991.157
0.65275	1.09934	179.4124	199.6818	1.06469	0.80614	1.06469	196.8023	204.3029
0.69665	1.0854	1684.922	1806.026	-2.93061	2.33E-17	0.34123	2751.363	922.5537
0.8532	1.06468	88.68066	94.56461	-1.00787	0.98802	0.99219	74.48784	73.75296
0.0092	1.35897	896.8432	1239.085	-1.11407	0.62059	0.89761	1412.799	1319.366
0.19694	1.08976	80770.22	87786.52	-2.44467	2.64E-17	0.40905	98099.07	40097.04
0.40813	1.10347	272.9338	300.2996	-1.07873	0.7101	0.92702	245.6202	226.3337
0.91174	0.97691	195.0576	188.3481	-1.02359	0.90558	0.97695	238.8422	230.7101
0.90142	0.9295	77.78204	70.31571	-1.23501	0.84552	0.80971	43.35928	33.62865
0.95993	0.99628	506.7967	505.4244	-1.08968	0.2998	0.9177	452.6826	415.4695
0.94755	1.09604	24.38369	28.80563	-1.00877	0.99522	0.99131	22.22414	31.21226
0.3606	0.94127	1505.232	1424.362	-1.05329	0.54824	0.94941	1423.473	1341.047
0.97495	1.00516	348.0128	355.4722	-1.02916	0.86942	0.97167	288.7333	277.2531
0.85398	1.01539	400.6987	406.908	1.03821	0.79372	1.03821	377.1559	393.0689
0.04783	1.10538	2001.17	2215.444	-1.11593	0.10188	0.89611	2456.262	2196.458
0.00542	0.61205	745.9343	445.7327	1.34797	0.00964	1.34797	555.7474	754.0979
0.1007	0.82608	2612.708	2114.445	1.49352	9.78E-11	1.49352	3011.554	4494.628
0.62634	0.96114	1734.969	1666.938	-1.11355	0.09217	0.89803	1473.824	1324.687
0.11649	1.12664	13446.99	15215.74	-1.15738	0.05096	0.86402	13884.99	11955.1
0.87476	0.97853	14899.69	14659.73	-1.58426	2.77E-08	0.63121	15414.33	9723.143
0.38905	0.9138	281.6163	257.3384	-1.30255	0.09382	0.76772	283.1405	217.0316
0.82148	1.01167	1128.632	1140.892	-1.04906	0.45846	0.95324	1155.83	1103.918
0.54681	1.15147	168.2793	190.1208	-1.07967	0.75302	0.92621	151.0309	139.3305
1.18E-06	0.73905	4575.471	3368.375	1.62095	1.26E-19	1.62095	2735.28	4428.307
0.64608	1.02669	1400.629	1440.461	-1.05697	0.28208	0.9461	1333.263	1261.277
0.30686	0.93337	610.109	568.8738	1.06532	0.36889	1.06532	518.6862	552.5913
0.56504	0.93521	339.7371	319.1395	-1.34755	0.0761	0.74209	343.7131	252.953
0.5871	0.85743	153.9402	132.8938	1.54518	0.40257	1.54518	117.0006	182.0253
0.39591	0.94773	3275.614	3114.284	-1.23476	0.00071	0.80987	3261.222	2636.218
0.42333	1.07508	606.2144	654.8938	1.04617	0.50841	1.04617	677.6047	708.3336
0.81978	1.03559	268.4682	275.6414	1.05148	0.73488	1.05148	242.8398	255.989
0.96749	1.00998	148.4615	148.3338	1.09353	0.65717	1.09353	170.6033	187.0321
0.2213	0.88843	790.8745	706.8082	-1.85257	0.00398	0.53979	470.35	254.1544
0.83125	0.98126	504.6411	496.9199	-1.3806	0.04188	0.72432	428.5383	311.1105
0.06906	0.81836	1728.761	1407.671	1.84498	1.30E-18	1.84498	1607.157	2963.945
0.95733	0.98185	116.581	115.9101	2.11101	0.00011	2.11101	144.8806	305.308
0.02925	1.13449	1112.08	1260.839	1.26475	0.00005	1.26475	1267.086	1602.823
3.42E-07	1.33663	1141.361	1524.316	2.09519	3.89E-08	2.09519	1176.91	2511.694
0.57876	0.91853	192.2827	176.6334	-1.34533	0.22641	0.74331	176.2213	131.7105
0.82413	1.03592	245.851	252.5007	-1.02215	0.90561	0.97833	241.3032	237.8888
0.62995	1.0719	224.9287	240.1656	1.27577	0.15529	1.27577	227.7923	292.9133
0.01432	0.86583	8760.443	7593.463	-1.32942	1.75E-06	0.75221	8295.571	6246.731
0.03234	1.09725	1841.316	2020.58	1.1089	0.0332	1.1089	1826.699	2025.49
0.97064	1.00953	120.6424	121.1926	1.085	0.78933	1.085	113.6459	123.1229
0.06604	0.85477	3590.632	3069.425	1.22646	0.00162	1.22646	3469.563	4250.972
0.21659	1.10462	892.8092	989.6083	1.0728	0.3489	1.0728	963.5951	1037.162
0.87428	1.02108	280.2026	286.4112	1.19707	0.24897	1.19707	278.9864	333.4955
0.52089	1.03012	3416.367	3518.112	1.34466	3.17E-06	1.34466	3181.552	4269.184
0.99662	0.99981	1990.046	1988.977	1.08937	0.0775	1.08937	2066.7	2252.22

0.94693	0.95121	43.51163	41.40497	1.02655	0.98257	1.02655	39.70716	43.34214
0.01094	0.81851	33569.68	27458.29	-1.06051	0.48028	0.94295	30926.11	29249.86
0.41835	0.90524	309.7969	280.614	1.1572	0.26513	1.1572	251.8122	291.6534
0.06047	0.89123	6130.914	5468.09	1.47998	1.10E-09	1.47998	5530.509	8190.167
0.02896	1.22351	407.6419	497.3246	1.01654	0.88272	1.01654	454.4692	460.029
0.47604	1.13937	5786.298	6521.855	-2.12006	6.58E-11	0.47168	8669.441	4057.672
1	1	18.0556	24.15205	1	1	1	18.35611	31.92669
0.69001	1.03712	663.5258	684.494	1.07345	0.36739	1.07345	784.5249	844.3898
0.95565	1.00397	591.2714	594.505	-1.20013	0.06592	0.83324	604.2518	503.0191
0.00001	0.81529	7443.612	6056.024	-10.17339	1.40E-45	0.0983	5446.74	531.5034
1	1	17.79963	23.80383	1	1	1	18.81685	30.74861
1	1	16.75399	24.39293	1	1	1	18.6253	30.85279
0.78712	0.9655	3409.315	3311.899	-1.17034	0.01144	0.85445	3208.697	2744.208
0.71378	1.06241	236.5322	248.9664	1.72471	0.00012	1.72471	204.7813	354.1929
0.00014	1.27113	2267.299	2884.111	-1.35648	0.00085	0.7372	3452.521	2513.53
0.97232	0.99747	2283.973	2296.556	-1.06596	0.23374	0.93812	2129.834	1996.939
0.78603	0.96916	341.4178	329.4488	-1.20681	0.09525	0.82863	325.6751	269.9418
0.1037	1.24715	7195.769	8897.494	-3.72473	1.50E-12	0.26848	11707.56	3007.795
0.08578	1.10424	3669.618	4049.215	1.03559	0.47098	1.03559	3957.116	4100.409
0.51376	1.04496	953.6124	996.5003	-1.07935	0.16326	0.92648	1930.288	1790.243
0.73315	0.96667	519.1425	503.9464	-1.02704	0.7467	0.97367	695.7998	676.0081
0.79608	1.01939	1868.912	1901.633	1.06431	0.32565	1.06431	1806.319	1925.356
0.04218	1.12094	819.673	919.5792	-1.10186	0.23065	0.90756	835.0927	756.1795
0.46091	1.24872	122.1397	148.8578	1.08243	0.80806	1.08243	130.9902	140.7701
0.13479	1.07285	2670.08	2863.062	-1.07808	0.18426	0.92757	3204.842	2969.819
0.66842	0.96852	1180.009	1136.686	-1.21094	0.00038	0.8258	1221.643	1008.276
0.72741	0.90053	140.2916	129.3903	-1.94045	0.0939	0.51534	144.8649	75.28226
0.57705	0.96474	4850.464	4700.38	1.01398	0.84436	1.01398	4733.196	4782.81
0.91414	1.00713	4075.787	4079.349	1.3608	0.05647	1.3608	3928.903	5430.23
0.80405	1.01457	1383.721	1406.148	-1.07813	0.16926	0.92753	1507.255	1396.719
0.63621	0.94418	19875.84	18838.44	-1.37018	0.00597	0.72983	18620.48	13441.59
0.77693	0.975	735.353	720.665	-1.15923	0.05587	0.86264	766.0349	659.4717
0.656	0.96917	851.4514	826.6423	-1.03185	0.63151	0.96914	1160.626	1126.31
0.97037	0.98403	85.43224	85.1237	1.23352	0.83955	1.23352	38.45791	53.52147
0.00744	0.7236	602.073	431.2658	-3.52492	3.62E-12	0.28369	460.0527	131.7094
0.34513	0.91027	544.9769	498.5349	-1.02936	0.65834	0.97148	945.1742	918.9461
0.65956	1.02858	1349.464	1391.691	-2.29563	1.73E-36	0.43561	1565.923	682.4868
0.13409	0.80097	1303.456	1048.306	-1.15718	0.04987	0.86417	1448.149	1253.643
0.67682	1.04113	825.0487	865.4384	1.0067	0.91811	1.0067	791.5794	796.2802
0.25319	0.9215	905.6598	836.6478	-1.36253	0.00044	0.73393	901.3739	663.4734
0.14078	0.70506	20583.37	14138.28	-2.32025	2.60E-26	0.43099	9712.367	4153.264
0.88053	1.01832	401.7577	406.146	1.15092	0.35466	1.15092	400.0194	462.9675
0.2095	0.90369	3040.124	2745.481	1.15269	0.08348	1.15269	2739.256	3164.002
0.90666	0.99397	2614.9	2604.444	1.00875	0.88088	1.00875	2956.886	2979.066
0.30751	1.14483	487.7089	565.4534	-1.17181	0.00607	0.85338	1008.902	860.4546
0.00354	1.21066	2550.179	3098.073	1.18637	0.00623	1.18637	3221.323	3820.545
0.72546	0.96867	475.3816	461.1073	-1.00745	0.94464	0.9926	429.9968	425.558
0.2559	1.08221	1995.522	2160.558	1.29918	5.54E-06	1.29918	2483.524	3234.901
0.3168	0.94186	25019.52	23556.8	1.31252	0.00002	1.31252	23230.86	30512.84
0.54797	1.0863	484.7163	520.5135	-1.03622	0.74973	0.96504	576.2679	557.2662
0.06949	1.08259	1780.594	1927.998	1.00157	0.97446	1.00157	2022.24	2025.531
0.5157	1.04127	1207.077	1254.705	-1.08015	0.1223	0.9258	1720.523	1594.218

0.42292	1.04494	1746.427	1827.734	-1.0312	0.47668	0.96975	1970.508	1910.906
0.92952	1.00895	597.7429	600.2289	1.04096	0.67269	1.04096	604.7991	631.8541
0.61157	1.04423	584.225	612.1906	1.01053	0.90626	1.01053	539.1569	546.0783
0.46093	1.06577	708.9922	756.7016	1.00248	0.97392	1.00248	1024.405	1024.072
0.66988	1.04877	369.509	386.5375	1.02112	0.85924	1.02112	341.6822	348.0306
0.02494	0.87261	697.0058	608.3303	-1.24773	0.00955	0.80146	670.2559	535.9356
0.93342	1.01975	156.3551	159.7015	1.05926	0.79535	1.05926	153.6497	163.308
0.60449	1.10166	169.1219	185.3086	1.15472	0.37673	1.15472	252.6653	293.7275
0.59682	0.92364	311.2229	286.6759	-1.08616	0.47492	0.92068	365.8451	337.3546
0.94297	1.05807	41.78635	45.68108	-1.39409	0.74836	0.71731	52.20155	41.20315
0.93477	0.98808	8183.338	8053.687	-2.33488	0	0.42829	8677.48	3725.991
0.31545	0.91493	585.4048	537.7148	1.18488	0.01147	1.18488	594.9408	704.6904
0.46887	1.06153	2482.469	2661.921	1.001	0.98983	1.001	2045.663	2061.386
0.95065	0.98677	1423.291	1413.008	-3.86056	4.23E-13	0.25903	1317.131	341.1759
0.20983	0.88952	983.4082	879.1583	1.04133	0.64782	1.04133	930.5217	966.0819
0.02413	0.83341	708.8619	588.9384	1.19123	0.04275	1.19123	544.5028	650.2003
0.93982	0.99458	2100.083	2083.257	-1.01186	0.83205	0.98828	2013.278	1991.056
0.27593	0.88413	429.7068	377.5521	-1.22705	0.05628	0.81496	404.2459	329.8242
0.91866	0.90046	34.39838	30.9597	1.09835	0.93536	1.09835	30.31341	35.08715
0.06298	0.86292	10532.54	9080.424	1.07032	0.25805	1.07032	10111.87	10833.22
0.10381	1.11796	1680.509	1874.557	1.41431	4.68E-13	1.41431	1510.531	2136.118
0.41827	1.06738	3314.21	3540.63	-1.71135	4.57E-17	0.58433	3672.813	2146.341
0.94115	0.99165	785.9589	772.0228	-1.18722	0.12285	0.8423	794.1547	671.9699
0.1848	1.08123	2931.145	3201.666	1.02965	0.64625	1.02965	6510.212	6768.555
0.71601	1.06229	183.5097	194.6638	1.36104	0.12036	1.36104	161.4645	219.6594
0.9439	0.92634	37.10614	36.59888	-1.08249	0.93075	0.92379	38.98118	35.73315
0.92159	1.06289	52.81947	57.47095	-1.01729	0.98567	0.983	39.91637	43.68037
0.81928	1.03386	346.5907	353.3706	-1.1386	0.2526	0.87827	490.191	432.8142
0.46868	1.06226	1104.665	1166.927	1.17556	0.03524	1.17556	1231.784	1453.404
0.00009	0.7525	1724.449	1301.073	-1.25887	0.00003	0.79436	1323.714	1050.778
0.84123	0.99042	2498.457	2473.59	1.41224	5.16E-14	1.41224	2572.793	3632.296
0.0216	1.10838	1603.136	1776.899	-1.03939	0.5897	0.9621	1632.206	1569.933
0.66988	1.05771	251.0111	264.7697	1.47247	0.00753	1.47247	248.3297	363.923
0.42505	1.20865	133.3857	159.6964	2.05393	0.00073	2.05393	109.1176	224.4275
0.32978	1.09543	345.3009	378.5609	1.19401	0.10426	1.19401	332.4332	396.465
0.85138	1.01773	1215.108	1236.95	-1.24602	0.00436	0.80255	874.8331	703.3973
0.50538	0.93023	1815.278	1701.283	1.367	2.22E-07	1.367	2177.859	2977.547
0.14933	1.11	3833.67	4220.339	-1.1056	0.04015	0.90449	4589.544	4146.889
0.97526	0.99078	121.8399	122.5764	-1.71588	0.1667	0.58279	148.7576	85.12325
0.00004	0.7609	10558.65	8047.509	-1.30577	1.22E-07	0.76583	9221.016	7054.253
0.50343	1.08414	385.6651	415.9053	1.08376	0.49786	1.08376	413.1937	450.3014
0.81299	1.01716	1039.757	1057.601	-1.66691	0.00121	0.59991	977.7661	586.5727
3.86E-06	0.65925	1900.578	1249.884	-1.12654	0.14002	0.88767	2052.281	1818.789
0.55607	0.83898	118.7562	98.98578	1.41953	0.30825	1.41953	90.82578	127.8084
0.47307	0.93479	1034.702	973.3125	-1.04252	0.64905	0.95922	1024.948	979.488
0.33568	0.91683	497.7405	455.8428	-1.22974	0.12159	0.81318	493.9493	404.9453
0.71836	1.03099	1310.031	1341.247	1.05015	0.48477	1.05015	1405.876	1480.769
0.00082	0.80802	831.3808	671.0591	-1.10859	0.21622	0.90205	767.4745	693.973
0.12072	0.88224	5917.559	5223.274	-1.07942	0.2246	0.92643	5083.029	4718.633
0.00006	1.27562	1453.897	1849.527	1.26209	0.00004	1.26209	1750.061	2210.309
0.14387	0.82402	1566.222	1286.838	1.05882	0.55429	1.05882	1376.326	1467.958
0.75663	0.92896	222.6567	213.4885	1.0409	0.83743	1.0409	244.5619	256.6507

0.04989	1.11077	107740.4	119818.1	1.20169	0.00017	1.20169	121333.6	145949.4
0.15412	0.78978	999.0505	794.3648	-1.92688	4.62E-06	0.51897	476.9575	249.4252
0.21364	1.11133	576.3828	642.9683	1.03941	0.64253	1.03941	692.1676	717.6966
0.35521	0.95629	1653.916	1582.017	1.26261	0.00084	1.26261	1478.705	1865.357
0.08767	0.80187	276.3989	221.3711	-1.2702	0.13281	0.78728	230.9629	181.7303
0.63408	0.94625	1764.891	1673.255	-1.25198	0.00667	0.79873	2501.896	1997.163
0.02466	0.79022	6324.756	5023.033	-1.08634	0.48263	0.92052	5804.462	5340.194
0.1388	1.15117	550.317	630.2584	1.02262	0.73589	1.02262	618.3984	632.581
0.5613	1.03541	673.517	697.8704	-1.0142	0.86005	0.986	702.6442	691.224
0.13358	1.10894	942.0419	1047.742	1.00047	0.99624	1.00047	1189.758	1186.144
1	1	17.78704	22.49178	1	1	1	18.60866	31.38695
0.70154	1.02803	1549.655	1593.126	-1.58903	6.25E-17	0.62932	1443.862	908.4093
0.94792	0.99545	932.9727	925.9102	1.01363	0.81864	1.01363	997.9558	1012.349
1	1	21.28292	23.51159	1	1	1	19.68626	32.06884
0.82281	0.98009	675.2069	658.9979	1.20449	0.02417	1.20449	608.3028	731.1365
0.01455	0.81796	13087.76	10698.86	1.07472	0.43126	1.07472	11610.92	12466.96
0.69742	0.95482	284.6741	271.3602	1.12474	0.42594	1.12474	246.3752	276.6912
0.69136	1.16323	76.54196	88.35541	1.41858	0.3521	1.41858	70.68374	100.4483
0.00179	1.17437	2570.377	3022.397	-1.47548	0.00016	0.67774	3331.399	2228.536
0.00002	0.71036	1825.346	1295.02	-1.01109	0.85575	0.98903	1401.715	1387.541
1	1	19.54389	23.42104	1.15462	0.93461	1.15462	18.14549	32.58744
0.96193	1.00521	7360.008	7441.075	-1.49717	1.08E-12	0.66793	6984.517	4661.508
0.96088	0.9971	849.5414	848.1951	-1.10705	0.1969	0.9033	803.5273	724.6117
0.42792	1.064	507.3954	539.4235	1.12044	0.16488	1.12044	489.4445	547.7046
0.76948	0.86071	86.74046	76.09338	-1.15961	0.71763	0.86236	80.84184	69.76307
0.47729	1.11962	231.6442	257.5063	-1.12052	0.4147	0.89244	279.3162	249.3492
0.33888	1.09609	715.4844	779.3547	-1.11509	0.0604	0.89679	815.2479	731.0839
0.04891	1.10569	4027.726	4459.985	-1.20563	0.01604	0.82944	4085.712	3391.348
0.16149	0.92342	2826.264	2612.729	1.26008	0.00209	1.26008	2502.157	3143.955
2.09E-06	1.24645	1619.347	2017.153	1.50147	2.11E-15	1.50147	2930.142	4393.374
0.85036	0.95273	183.5391	176.6982	-1.01072	0.96746	0.98939	177.7024	173.6935
0.15847	1.1047	1439.949	1596.602	-1.30206	1.41E-07	0.76801	1534.908	1179.002
0.00076	1.21665	1516.509	1847.145	1.24779	0.00077	1.24779	1753.181	2186.156
0.38637	1.06452	1863.243	1981.291	1.00011	0.99826	1.00011	2038.477	2041.319
0.04258	1.1052	5330.56	5889.017	1.05852	0.28491	1.05852	6251.156	6614.167
0.68861	1.31957	54.04782	78.38113	-1.04224	0.93	0.95947	66.83858	64.16969
0.09537	0.83609	4851.888	4036.309	1.1806	0.05402	1.1806	3730.12	4423.425
0.38876	1.07308	1056.737	1138.823	1.50102	2.25E-07	1.50102	1099.288	1646.561
0.95367	1.01975	110.458	114.7644	-1.55787	0.18295	0.6419	119.3703	76.60932
0.86664	0.98932	687.4794	680.9282	-1.06762	0.42924	0.93666	603.7531	564.4912
0.74825	0.97886	2282.304	2241.211	-1.19651	0.01035	0.83576	2388.739	1989.65
0.3236	0.80738	377.6959	322.7234	-1.43206	0.00119	0.6983	413.2328	288.5845
0.96914	0.99596	1141.095	1144.985	-1.45239	3.26E-10	0.68852	936.5022	644.6496
0.00199	0.84725	3026.418	2564.192	1.16205	0.00485	1.16205	2722.214	3162.921
0.6973	1.03543	1961.776	2029.778	1.04393	0.57507	1.04393	1923.6	2008.672
0.81671	1.05818	147.8779	156.407	-1.32746	0.49224	0.75332	143.9466	111.1775
0.00989	1.14266	12557.16	14368.93	-1.28218	1.22E-06	0.77992	14912.13	11624.32
0.00434	1.16168	14428.91	16776.13	-1.35247	2.38E-10	0.73939	12725.25	9401.98
0.20808	1.10737	851.7753	937.832	-1.07315	0.32431	0.93184	888.2781	829.1831
0.715	0.95663	389.4381	375.5179	-1.1031	0.20312	0.90654	608.9094	551.8907
0.26707	1.06799	4551.005	4836.694	1.60187	0.00325	1.60187	3987.638	6511.021
0.73179	0.97748	1764.093	1728.436	-1.14897	0.14349	0.87034	1792.079	1558.596

0.21629	1.06748	2841.102	3032.281	1.01221	0.79731	1.01221	2928.863	2963.779
0.75738	1.03724	907.4899	942.9791	1.09016	0.43118	1.09016	983.3194	1069.883
0.8198	1.15201	46.38278	53.43908	2.30483	0.11666	2.30483	39.605	91.71587
0.00014	0.78265	14501.01	11379.27	1.29127	4.85E-07	1.29127	12690.42	16391.72
0.27705	1.23707	179.25	221.9397	1.81049	0.00003	1.81049	173.0257	313.1846
0.62207	1.04339	4114.014	4322.366	-1.25672	0.00074	0.79572	4100.087	3265.606
0.94706	1.00511	1739.411	1720.72	-1.02594	0.61965	0.97471	2173.802	2120.032
0.2838	1.06609	5569.58	5943.723	1.0664	0.18197	1.0664	4747.743	5056.563
0.09681	1.10169	2250.08	2484.712	1.05318	0.45087	1.05318	2675.343	2805.818
0.80016	1.02111	438.5602	448.5947	-1.087	0.40336	0.91996	456.227	418.7922
0.9106	0.98113	287.7919	286.0966	1.05798	0.65344	1.05798	256.4503	271.2251
0.57834	1.04961	1446.884	1510.506	1.09919	0.22267	1.09919	1371.166	1511.895
0.82326	0.9696	798.5571	767.4623	1.74147	1.23E-15	1.74147	663.6461	1157.508
0.03471	0.76442	1202.005	906.629	-1.15084	0.15127	0.86893	916.4397	800.0439
0.05842	1.09117	6386.417	6975.559	1.02584	0.65635	1.02584	7026.924	7213.15
0.39452	0.92584	745.4438	693.8571	-1.22643	0.00429	0.81537	688.7033	561.3723
0.15667	1.08109	2250.047	2434.174	-1.41469	1.07E-10	0.70687	2163.786	1531.424
0.11759	1.09759	2853.042	3108.9	-1.03993	0.35264	0.9616	4436.393	4264.727
0.10787	1.16008	22664.16	26270.46	-1.79585	1.61E-09	0.55684	29276.96	16035.52
0.60882	0.92708	589.0515	553.4622	1.01377	0.85458	1.01377	1025.715	1037.044
0.68285	1.01932	2938.698	2997.502	-1.05079	0.36786	0.95166	3038.319	2890.118
0.89256	1.01244	2512.732	2548.071	1.2734	1.23E-06	1.2734	2461.177	3132.13
0.99355	0.99738	111.2723	110.881	1.02955	0.90029	1.02955	222.636	224.2902
0.05814	1.39423	33728.02	46343.91	-4.53099	1.35E-14	0.2207	69227.12	14463.32
3.31E-06	0.62905	686.5851	429.5655	-1.4167	0.00055	0.70586	508.1768	359.0176
0.95724	0.99015	180.5848	179.609	1.65003	0.01427	1.65003	169.1696	279.5486
0.1139	0.86245	341.4627	294.4813	1.0214	0.892	1.0214	315.9494	322.4711
0.70249	0.91868	203.9126	184.6323	-1.02066	0.91728	0.97976	207.7193	204.3626
0.29736	1.11094	1166.745	1300.892	-1.18516	0.02446	0.84377	1537.175	1291.561
0.9092	0.98363	331.9935	330.6143	-1.327	0.01416	0.75358	419.7435	317.2341
0.37719	1.04016	2949.201	3065.17	1.01487	0.72731	1.01487	3276.063	3324.548
0.36781	0.94971	1704.17	1618.824	1.15611	0.0215	1.15611	1468.101	1697.827
0.31588	1.15756	396.4294	468.4241	1.12634	0.35116	1.12634	585.3938	656.9368
0.74488	0.97929	852.829	836.915	-1.2227	0.00056	0.81786	955.7266	781.3932
4.83E-07	0.69487	1738.499	1209.134	-1.09015	0.23368	0.9173	1877.201	1716.564
0.30065	0.92478	851.7743	785.3281	1.24669	0.00153	1.24669	710.2061	884.1956
0.04263	1.18228	17841.79	20912.59	-1.87115	8.36E-12	0.53443	21583.52	11284.37
0.00055	0.76773	6483.049	4967.557	1.08915	0.2768	1.08915	5859.035	6377.945
0.83319	1.01511	1700.061	1718.084	-1.02772	0.61041	0.97303	1806.175	1757.036
3.74E-07	1.3193	28409.8	37382.45	3.18024	3.17E-12	3.18024	31546.23	102896.8
0.50341	0.90074	289.7889	263.9898	-1.23553	0.30682	0.80937	219.4901	176.4283
0.51201	1.02979	4030.777	4146.686	-1.18036	0.00375	0.8472	4079.338	3441.757
0.20807	1.14994	487.9424	558.9018	1.31372	0.04795	1.31372	410.648	542.2189
0.55664	0.91307	5621.916	4974.484	-1.52288	5.18E-10	0.65665	6559.792	4306.957
0.01617	0.79341	5793.607	4596.554	1.08507	0.0975	1.08507	4797.214	5204.435
0.7713	0.98634	2513.985	2475.863	-1.0363	0.43294	0.96497	2689.712	2594.683
0.98289	1.00465	170.321	172.904	-1.13995	0.61261	0.87723	164.7819	143.5866
0.52566	1.05152	7158.635	7498.43	1.18286	0.00024	1.18286	5999.508	7097.127
0.30948	1.07879	5254.019	5615.697	-1.09368	0.04712	0.91434	5853.601	5346.65
0.99447	1.00065	1174.926	1182.14	-1.24074	0.00014	0.80597	1276.936	1028.839
0.81837	0.98817	5514.089	5438.385	1.01128	0.82908	1.01128	5239.283	5288.306
0.00279	0.63081	698.827	433.0791	-1.03191	0.82051	0.96908	448.645	436.6489

0.59552	1.03873	15743.45	16327.03	-1.76975	2.46E-16	0.56505	14498.5	8179.617
0.7701	0.96447	912.6812	889.1588	-1.77818	3.09E-07	0.56237	799.2098	451.4804
0.08636	1.29941	5407.879	6931.387	-1.6986	0.00007	0.58872	9541.368	5483.51
0.81512	1.03804	262.4294	272.8127	-1.14215	0.3561	0.87554	269.6669	235.8171
0.27869	1.12365	3485.702	3927.624	-1.58146	0.0017	0.63233	4051.842	2525.093
0.85476	1.01572	1235.406	1265.335	-1.08181	0.29585	0.92438	1348.242	1244.579
0.88118	0.97768	417.0501	407.5817	-1.04003	0.64385	0.96151	670.7384	644.027
0.34125	0.91113	5986.793	5454.575	1.42488	0.0007	1.42488	5539.876	7906.999
0.17945	0.93133	2303.552	2146.112	-1.12012	0.03398	0.89276	1883.017	1681.967
0.00603	1.13907	1373.052	1563.794	1.27788	2.55E-06	1.27788	1352.952	1728.754
0.39358	1.07672	668.7333	717.0696	-1.08542	0.0746	0.9213	2009.831	1852.398
0.7554	0.62659	33.19675	21.73312	1	1	1	18.00958	32.29393
0.62574	1.03058	1062.9	1095.857	4.27151	3.42E-40	4.27151	1473.384	6321.346
0.29019	1.07495	7109.288	7691.455	-1.29554	2.77E-09	0.77188	7237.912	5587.913
0.53022	1.03472	4145.059	4269.482	-1.0308	0.56922	0.97012	6683.043	6466.211
0.88419	0.97668	334.59	333.5436	-1.17773	0.14333	0.84909	497.4246	420.4177
0.62951	0.87662	126.4395	110.0172	-1.10566	0.82627	0.90444	100.8553	89.24899
0.91757	1.01081	329.4017	332.2798	-1.05096	0.65808	0.95151	317.6896	302.018
0.58993	1.07537	566.7526	602.8145	1.05713	0.44056	1.05713	552.6578	584.4293
0.25857	0.57303	80.99493	46.11493	-1.04659	0.96066	0.95549	45.53868	42.03981
0.52611	1.04551	744.5138	776.6387	-1.29105	0.00027	0.77456	675.5228	522.9699
0.00073	0.85395	11906.9	10191.76	-1.20381	0.00285	0.8307	14631.07	12125.25
0.4866	0.92959	593.0156	554.9156	-1.15813	0.20515	0.86346	660.2968	566.4395
0.27946	1.07019	1856.051	1993.589	1.17804	0.0074	1.17804	1847.034	2172.925
0.75453	0.94665	175.0604	165.2961	1.08696	0.6801	1.08696	154.2585	167.7622
0.62732	1.02485	1356.652	1390.195	-1.04721	0.34426	0.95492	2054.568	1963.264
0.68387	0.92607	156.7365	145.0644	1.14115	0.69828	1.14115	152.6632	171.6964
0.00027	1.1983	1160.113	1389.159	1.2292	0.00315	1.2292	1408.864	1732.416
0.15199	1.07508	3160.4	3394.466	-1.24424	0.00481	0.8037	3815.368	3076.76
0.94282	0.99604	1315.207	1311.715	-1.06604	0.37073	0.93805	1242.391	1161.41
3.53E-07	0.706	2012.261	1419.778	1.03268	0.54543	1.03268	1672.531	1726.069
0.75152	1.08115	169.4724	179.4272	-1.14323	0.30214	0.87471	294.0886	257.1856
0.01447	1.16612	870.3439	1015.017	1.2153	0.1518	1.2153	763.3871	921.7972
0.97924	0.97249	30.03218	29.18415	1	1	1	18.76223	31.09949
0.84923	1.01943	794.9131	804.1788	-1.15371	0.07527	0.86677	831.459	722.3128
0.72074	0.94644	311.7489	299.1315	1.10239	0.38165	1.10239	549.563	602.9291
0.37315	1.04245	1891.913	1973.103	-1.06354	0.1764	0.94025	1894.912	1781.235
0.17555	0.79894	7625.257	6099.575	1.10909	0.47388	1.10909	7560.991	8255.195
0.96007	0.94134	28.38826	26.53903	-1.14811	0.89944	0.871	33.19469	36.67773
0.5179	0.84922	475.5989	420.5465	-3.70571	7.64E-08	0.26985	362.6744	97.52997
0.86817	1.01614	1266.983	1271.62	1.12744	0.11072	1.12744	1289.523	1459.63
0.10115	0.84306	24572.44	20795.61	1.2292	0.01682	1.2292	22854.25	28157.05
0.03827	0.85831	3986.314	3425.183	1.35042	1.18E-08	1.35042	3543.343	4784.5
0.12625	1.31103	30946.48	39414.35	-3.00537	5.76E-09	0.33274	55877	17572.21
0.14228	1.0688	9789.029	10449.04	-1.0471	0.41176	0.95501	9683.635	9206.911
0.92432	1.00636	4059.313	4119.81	-1.0402	0.38832	0.96135	5587.185	5365.416
0.34291	1.12833	374.2399	418.6956	1.04575	0.5635	1.04575	944.3166	990.869
0.12635	1.08909	3825.067	4162.943	-1.05692	0.2215	0.94615	4416.693	4181.661
0.71	1.31936	45.80801	59.46356	1.22325	0.7588	1.22325	54.21817	65.21526
0.6908	1.02469	1286.245	1320.647	1.09255	0.12236	1.09255	2278.211	2493.059
0.78767	0.96553	503.109	480.5663	1.63308	0.00208	1.63308	356.9618	590.5752
0.89883	0.98661	411.3317	405.1555	-1.26128	0.0054	0.79285	586.9795	464.7156

0.00028	0.61353	2564.962	1560.703	1.15864	0.0164	1.15864	1846.547	2145.032
0.69863	1.1168	125.4613	142.0865	1.31638	0.02625	1.31638	301.8734	397.3863
0.58764	0.93024	352.4979	324.9239	2.04775	6.78E-13	2.04775	297.904	611.1541
0.95923	1.00415	506.1226	507.0215	-1.13952	0.15676	0.87756	453.8384	397.8165
0.69257	1.04913	403.4534	426.4567	1.03978	0.78852	1.03978	371.9631	384.3057
0.93807	0.98898	4026.786	3958.034	-1.17947	0.06367	0.84784	2975.052	2530.584
0.42053	0.931	619.5061	579.2329	-1.09474	0.23165	0.91346	596.7577	544.603
0.6227	0.95968	542.3848	522.0994	-1.05126	0.64999	0.95124	522.3284	495.6088
0.95503	1.00704	252.4293	253.6723	1.10084	0.47253	1.10084	287.4938	317.5516
0.03436	1.15425	820.1555	948.9655	-1.13637	0.0591	0.87999	920.0803	808.4086
0.54481	0.92075	279.3248	258.4693	-1.07546	0.59744	0.92983	265.916	247.5476
0.95804	0.93054	24.86346	24.83657	1	1	1	19.58313	30.48886
0.06784	1.07727	5193.9	5595.287	-1.20876	0.00002	0.8273	4845.934	4008.455
0.12164	0.92472	4552.093	4213.238	1.10743	0.21406	1.10743	3670.877	4069.661
0.37173	1.04226	2808.885	2929.459	1.13695	0.07985	1.13695	3019.554	3418.508
0.19138	1.13802	4064.756	4648.571	1.46437	2.03E-07	1.46437	3854.877	5655.806
0.01559	1.14492	761.8779	872.2441	-1.04697	0.50762	0.95514	927.4121	885.049
0.64906	0.76203	55.95943	43.04282	-1.17909	0.88962	0.84811	32.39608	31.19784
4.49E-06	0.66201	1605.246	1063.379	-1.32413	0.00001	0.75521	1520.19	1147.944
0.88266	0.98926	11056.81	10958.07	1.07065	0.41636	1.07065	11755.15	12584.99
0.23058	1.05849	1378.502	1458.668	-1.03973	0.39451	0.96179	1530.906	1472.494
0.01178	0.83415	4855.598	4055.249	1.14877	0.10685	1.14877	4525.235	5190.687
0.25697	1.11114	2820.206	3096.795	2.51938	2.62E-08	2.51938	2447.345	6365.826
0.96711	0.99798	2977.755	2975.437	-1.15505	0.01086	0.86577	3198.075	2761.785
0.0753	0.84905	4688.9	3978.926	1.09508	0.40004	1.09508	3995.333	4378.866
0.57369	0.90393	742.981	681.1797	-1.71795	0.00037	0.58209	740.2771	432.18
0.62626	0.96915	7088.291	6859.993	-1.18634	0.01276	0.84293	7670.811	6445.714
0.52564	0.93041	2458.026	2315.697	-1.21183	0.00483	0.82519	2262.024	1870.314
0.85057	0.98891	866.1335	855.3887	-1.04824	0.45753	0.95398	820.2729	782.8546
0.03202	1.10345	7753.34	8564.191	1.05166	0.35421	1.05166	8844.246	9291.076
0.70191	0.94553	264.5046	251.7269	-1.12789	0.52651	0.88661	214.722	191.1859
0.01743	1.13227	4064.676	4601.943	1.12126	0.01102	1.12126	4640.603	5205.763
0.55867	1.07435	238.323	256.1642	-1.07879	0.69665	0.92697	261.6029	241.3936
0.14371	1.08993	2718.976	2960.041	-1.15959	0.01228	0.86237	3006.804	2583.683
0.80264	1.02725	2047.199	2109.463	-1.28475	2.62E-07	0.77836	2067.771	1609.02
0.5645	0.80902	104.461	83.27136	1.08519	0.86775	1.08519	69.39697	75.99998
0.04014	0.8381	1032.007	860.7997	1.04015	0.59742	1.04015	870.1771	907.2288
0.56889	1.10481	212.3254	232.3833	1.33131	0.12328	1.33131	191.4144	253.483
0.51804	0.96917	1714.612	1663.154	1.09808	0.06894	1.09808	2640.144	2905.705
0.10146	1.10992	8167.499	9072.191	1.43143	2.96E-16	1.43143	7893.365	11299.33
0.93164	0.96804	103.0948	99.7372	-1.02853	0.94645	0.97227	106.6768	103.4347
0.12936	0.75216	3794.987	2889.95	-1.46567	2.32E-06	0.68228	1706.105	1162.761
0.39701	1.11519	345.3138	388.6509	-1.27228	0.00739	0.78599	506.2278	397.359
0.80844	1.02475	442.7031	455.4713	-1.07454	0.47272	0.93063	486.8746	451.9081
0.61134	1.04471	3002.119	3136.194	1.49177	8.68E-21	1.49177	2744.772	4094.434
0.00686	1.1311	7865.977	8905.418	-1.05438	0.40637	0.94843	8901.559	8452.07
1	1	18.81052	23.55595	1	1	1	17.72357	30.76805
0.00126	0.69398	579.4197	405.1491	-1.39696	0.02042	0.71584	526.8344	373.0181
0.7037	1.05973	340.068	366.9477	-1.14064	0.12579	0.8767	829.9652	725.391
0.44515	0.84994	12213.61	9937.863	-3.00003	1.42E-33	0.33333	9631.641	3183.533
0.01718	0.8635	2271.457	1969.205	-1.07369	0.1792	0.93136	1977.759	1839.677
0.20771	1.06023	5833.456	6189.146	-1.06375	0.15452	0.94007	5658.398	5319.187

0.05575	0.83565	1103.693	924.3084	-1.07624	0.22377	0.92916	916.5723	851.301
0.22713	1.06993	1051.037	1123.745	1.31125	0.00048	1.31125	1054.316	1382.322
0.96351	1.00481	419.475	423.632	-1.11937	0.25454	0.89336	410.1635	366.885
0.13412	1.09711	656.3831	719.4797	1.35515	0.00023	1.35515	707.4521	956.1116
0.88947	1.03073	184.7895	188.0502	-1.07234	0.63172	0.93254	289.8954	271.2193
0.48091	0.87774	626.7042	560.993	-2.51291	4.67E-06	0.39795	598.6907	238.1494
0.20806	0.76711	353.2321	260.1768	1.01811	0.8809	1.01811	472.2001	484.2655
0.02455	0.90955	16652.53	15142.34	1.28116	0.00281	1.28116	16436.35	21078.08
0.67751	1.2765	56.05268	73.51328	1.22406	0.86552	1.22406	22.64173	37.16801
0.42657	0.94203	4983.719	4712.093	-1.29849	9.46E-06	0.77013	4567.471	3515.541
0.00052	0.81359	3058.539	2487.589	1.41882	1.62E-11	1.41882	2361.234	3355.7
0.63758	1.04541	2184.533	2264.059	1.07473	0.31371	1.07473	2467.754	2661.99
1.44E-07	1.2742	8960.781	11427.95	2.35568	4.69E-14	2.35568	9548.584	22863.37
0.19049	1.06326	4793.163	5106.55	-1.00643	0.88864	0.99361	5060.821	5034.279
0.00013	1.17005	3260.313	3814.67	-1.23913	5.17E-07	0.80702	4398.7	3549.192
0.03631	1.17782	1514.455	1772.289	-1.21589	0.00067	0.82245	3404.646	2813.833
0.87501	1.01103	2495.275	2533.559	-1.2124	0.00114	0.82481	2534.903	2090.426
0.55406	1.05835	3032.125	3204.406	1.1325	0.19847	1.1325	2862.259	3245.469
0.59309	0.90711	223.2083	202.3005	-1.04958	0.75603	0.95276	342.3937	323.57
0.05027	0.84815	4172.336	3518.194	1.20465	0.00563	1.20465	3998.586	4819.258
0.34239	1.04303	6340.179	6606.818	1.03259	0.49997	1.03259	5961.064	6156.299
0.59278	1.04357	661.7818	688.1555	1.01137	0.85814	1.01137	710.5452	718.9966
0.00001	0.74371	2224.571	1654.714	1.29135	6.94E-08	1.29135	1851.221	2390.724
0.43939	1.03954	1497.892	1554.788	1.04159	0.42695	1.04159	1533.68	1597.26
0.92099	1.01273	375.1064	376.4474	1.27759	0.02068	1.27759	333.9046	426.0673
0.06419	1.14299	7049.725	8009.834	-1.08776	0.32454	0.91932	9279.088	8503.441
0.35706	0.94957	890.8326	845.2545	1.01562	0.77938	1.01562	945.2146	960.4475
0.62381	0.95653	824.3692	791.5689	-1.15443	0.04569	0.86623	824.353	712.8762
0.97996	1.00143	1210.805	1211.57	-1.16528	0.03827	0.85816	1144.088	982.4385
0.09019	1.1163	1901.719	2131.264	1.02623	0.72675	1.02623	2047.455	2101.597
0.97152	0.99532	6603.603	6599.485	1.47396	0.00261	1.47396	6179.538	9167.512
0.04917	0.73807	1033.656	752.7851	-1.31912	0.01053	0.75808	783.1564	596.3651
0.91176	0.94726	66.64293	62.34898	1.02004	0.97702	1.02004	56.19846	57.02148
0.9203	1.00554	1534.482	1541.171	-1.10125	0.26285	0.90806	1452.511	1317.981
0.13074	1.07844	6057.414	6546.081	-1.04836	0.44483	0.95387	6313.875	6019.473
0.00159	1.47133	288.0402	424.6109	1.91942	1.71E-10	1.91942	276.0809	529.1674
0.01962	0.79349	1652.685	1307.545	1.08076	0.14243	1.08076	1422.398	1537.88
0.95273	1.00377	2691.341	2696.858	1.12475	0.06031	1.12475	2730.658	3080.194
0.00165	1.1623	4628.403	5383.406	1.78747	7.50E-12	1.78747	4218.216	7568.963
0.80972	0.98465	1563.042	1547.136	-1.09973	0.28436	0.90932	1509.032	1365.147
0.81107	0.97665	1046.865	1032.571	-1.09204	0.14075	0.91571	919.6551	841.4738
0.20898	1.06714	1519.497	1624.515	1.05576	0.35438	1.05576	1451.046	1529.667
0.61115	1.03794	3235.987	3375.55	-1.21938	0.0123	0.82009	3803.908	3119.409
0.68186	1.02136	922.3162	942.1137	-1.06833	0.33326	0.93604	768.4247	719.8342
0.9559	1.01199	131.7796	133.4587	-1.39162	0.40647	0.71859	124.0149	87.91557
0.66191	1.04559	445.0709	462.9752	1.0066	0.95473	1.0066	558.6914	561.7429
0.21943	1.11575	447.0799	499.1238	-1.03273	0.69481	0.9683	1110.831	1073.679
0.94554	0.96239	76.57331	70.34258	1.57282	0.42181	1.57282	51.60902	81.27572
0.43905	1.04623	785.9373	821.4695	-1.04594	0.50534	0.95608	901.4816	863.1267
0.00075	0.81351	1415.89	1152.802	-2.21875	1.33E-09	0.4507	1317.144	595.4749
0.25572	1.05572	1671.748	1764.261	-1.1341	0.03524	0.88176	2085.172	1841.686
0.00102	0.78954	46625.38	36730.83	1.00147	0.97814	1.00147	50890	50979.2

0.61275	1.0356	1446.171	1503.342	-1.22686	0.00763	0.81509	1775.024	1450.698
0.92345	0.98092	221.0284	215.5728	1.016	0.91735	1.016	277.2081	281.085
0.58231	0.90514	196.8594	179.251	-1.12106	0.60616	0.89202	179.6017	159.3813
0.65758	1.028	2859.77	2921.777	-1.21914	0.00016	0.82025	5523.033	4517.194
0.87039	0.98807	1491.755	1471.943	-1.11613	0.16042	0.89595	1565.323	1395.519
0.6396	0.65051	36.98517	24.00629	-1.01278	0.99226	0.98738	23.48676	31.89946
0.51615	0.95775	909.3792	870.205	1.20978	0.02578	1.20978	756.5601	913.0606
0.703	0.93338	179.8073	168.3153	1.20797	0.51949	1.20797	151.1486	181.6158
0.28339	0.93837	2068.165	1938.743	1.77088	1.17E-08	1.77088	1801.755	3183.339
0.51855	1.05159	1099.094	1158.84	-1.10771	0.0617	0.90276	1278.188	1154.718
0.43824	1.07621	1351.769	1468.944	-1.16517	0.00664	0.85824	1396.87	1200.473
0.48529	1.0378	1208.551	1255.867	-1.01979	0.74959	0.9806	1180.735	1158.079
0.9797	0.99807	1059.101	1054.367	-1.05954	0.44442	0.94381	1732.395	1624.995
0.65446	1.13107	164.2654	181.262	1.28205	0.38547	1.28205	176.2133	224.529
0.01105	1.34994	233.1904	315.1079	1.61121	0.00214	1.61121	240.7123	386.7896
0.06672	1.08323	2867.655	3105.875	-1.14716	0.02925	0.87172	2756.314	2391.069
0.00034	1.23505	665.9446	822.4478	2.01901	1.85E-09	2.01901	680.6846	1377.095
0.97228	0.99276	205.0756	200.1254	-1.26795	0.2728	0.78868	206.2132	161.9584
0.88799	0.98514	804.5385	785.4792	-1.44714	0.00081	0.69102	669.2727	464.9382
0.05046	1.12031	10133.26	11396.76	-1.17152	0.03494	0.85359	10988.67	9303.198
0.11765	0.8036	454.5641	360.6187	1.28806	0.00308	1.28806	362.6854	467.2471
0.49609	1.11801	252.974	279.2824	-1.49746	0.00326	0.6678	426.1763	286.0299
0.80467	0.96473	590.0877	576.6886	-3.05141	1.90E-06	0.32772	424.9487	143.0807
0.72165	0.96062	387.1379	373.9353	1.47181	0.00013	1.47181	291.7886	429.1198
0.45974	1.05346	640.3777	673.835	1.16677	0.0405	1.16677	534.46	623.6199
0.2764	1.07921	1227.493	1327.755	1.09408	0.39373	1.09408	630.9545	690.4288
0.82734	1.01683	1137.655	1157.753	-1.14171	0.05559	0.87588	1407.515	1232.511
0.0001	1.20051	4038.503	4844.219	-1.70038	1.67E-06	0.5881	6163.445	3583.156
0.84569	0.8366	47.31591	42.53759	1.064	0.91698	1.064	61.63522	64.70277
0.20991	1.0702	799.9603	856.4794	-1.08707	0.33279	0.9199	858.8755	787.9295
0.94042	1.0173	155.5694	157.2394	1.04246	0.85641	1.04246	156.9796	164.4581
0.81533	1.06279	142.3865	149.0826	1.016	0.94854	1.016	122.8447	124.7768
0.25362	1.13347	841.2921	947.2748	1.12075	0.22362	1.12075	740.6166	833.6516
0.79903	1.02952	4941.62	5087.477	-1.0074	0.91726	0.99266	3495.859	3455.65
0.00306	0.84198	83538.39	70183.86	-1.10495	0.14069	0.90502	96183.87	86991.27
0.8907	0.98106	428.9825	420.3129	-1.22069	0.02801	0.81921	577.1499	471.8782
0.97333	1.00266	917.4598	922.6719	-3.43065	5.69E-30	0.29149	851.5397	248.8838
0.91827	1.13403	22.14225	26.71513	1.09411	0.92995	1.09411	40.18098	44.71696
0.12157	0.77082	285.8881	218.1144	-1.2663	0.29439	0.7897	243.5153	194.8915
0.58158	1.03259	1453.554	1498.503	-1.08196	0.09449	0.92425	1624.064	1501.517
0.90232	1.01441	271.3883	275.6093	1.06226	0.73309	1.06226	227.8271	243.5838
0.66353	0.94556	255.3256	241.3373	-1.17205	0.3599	0.85321	239.4188	203.4434
0.0002	0.85588	30920.34	26460.36	1.40144	3.21E-10	1.40144	31033.91	43490.87
0.16695	1.07256	1327.165	1425.17	-1.07408	0.37714	0.93103	1241.972	1148.898
0.82429	1.06595	150.5647	166.0945	1.08394	0.53272	1.08394	317.1176	342.5258
0.64116	1.06583	331.9577	351.9876	1.07714	0.41531	1.07714	429.6404	462.1884
0.16212	0.91951	1046.434	963.2903	1.10207	0.33829	1.10207	912.8188	1002.835
0.73779	1.02044	2469.503	2541.813	-1.04589	0.42684	0.95612	3053.343	2930.802
0.01701	1.30138	4210.896	5444.07	-2.84819	3.67E-14	0.3511	6587.761	2247.32
0.00363	1.15479	1923.655	2225.094	-1.01228	0.84723	0.98786	2083.109	2058.746
0.11247	0.79238	546.2472	425.64	1.09043	0.35343	1.09043	430.4778	468.6693
0.14234	1.10409	2901.736	3252.234	-1.01968	0.72616	0.9807	4295.479	4214.923

0.90112	1.03435	114.7733	117.9048	1.13918	0.68895	1.13918	103.1211	117.172
0.0611	1.22725	13702.27	16599.71	-2.27106	1.42E-10	0.44032	19395.47	8311.214
0.40572	1.07424	8892.549	9633.939	-1.16212	0.00376	0.8605	10130.47	8714.971
0.67531	0.87312	174.8327	158.9312	-1.74824	0.33665	0.572	101.8526	57.21158
0.88808	1.06252	75.83814	79.49742	1.40639	0.49446	1.40639	73.41974	106.4464
0.76047	1.02794	1186.739	1227.892	-1.204	0.09416	0.83057	807.7333	671.8412
0.07593	0.86545	659.9716	572.8669	-1.00957	0.92432	0.99052	572.5838	564.8987
0.6044	0.86084	104.0781	89.64684	-1.13406	0.7856	0.88178	95.18706	84.10437
0.90571	1.03414	148.6281	157.6166	1.03995	0.92885	1.03995	109.2105	112.6328
0.96562	1.01743	90.90508	92.38434	-1.34989	0.70544	0.7408	62.79182	44.77505
0.90915	1.01268	254.3351	257.5394	-1.08434	0.63823	0.92222	249.4768	231.4271
0.07386	1.11793	5958.363	6668.361	-1.25841	0.00665	0.79465	7255.012	5751.345
0.75876	0.89433	106.6571	95.06503	-1.04179	0.83727	0.95989	207.666	199.7587
0.5969	1.02914	9096.963	9355.588	1.18839	0.00005	1.18839	13209.9	15699.39
0.92914	1.00697	780.307	782.66	-1.04561	0.57665	0.95638	857.7487	821.6282
0.96029	0.98725	166.3823	167.5999	-1.07417	0.80565	0.93095	136.7401	126.5793
0.12999	1.06902	3907.292	4179.784	-1.02545	0.61578	0.97518	4168.243	4069.925
0.72041	1.11425	102.2492	114.1378	1.16845	0.83459	1.16845	60.31715	72.59744
0.49101	0.95492	796.8858	759.2448	1.03283	0.68636	1.03283	792.316	816.1826
0.77154	0.93901	280.2267	253.6578	-5.47829	0.00035	0.18254	189.0824	34.43808
0.12252	1.13295	10343.57	11624.17	-1.03765	0.46162	0.96372	12231.2	11770.99
0.99895	0.9998	251.2019	249.6763	-1.08841	0.63796	0.91877	262.2064	242.9406
0.5573	1.02676	2771.946	2848.156	1.18441	0.00728	1.18441	2118.119	2491.687
0.23621	1.07909	1987.194	2152.491	-1.04391	0.48948	0.95794	2771.511	2658.809
0.20448	1.08465	2416.474	2609.126	-1.47415	8.62E-12	0.67836	3308.415	2246.552
0.01409	1.13588	2460.947	2790.895	-1.09936	0.10555	0.90962	2991.11	2713.06
0.03068	0.79037	569.335	446.8763	1.01794	0.88229	1.01794	446.5772	456.4413
0.29143	0.95201	3986.549	3797.149	1.54152	1.44E-24	1.54152	3929.22	6056.95
0.59534	0.83922	122.773	104.7535	1.41375	0.2805	1.41375	97.94591	137.7651
0.72467	1.02182	607.6449	620.7015	-1.12525	0.11035	0.88869	672.2441	596.6877
0.26238	0.90604	655.3808	596.4221	-1.31056	0.00096	0.76303	539.6647	412.0872
5.87E-10	0.65175	2623.411	1704.738	1.0703	0.5677	1.0703	1804.7	1942.852
0.54094	0.80658	123.395	102.1448	-1.13747	0.72333	0.87915	94.35389	82.95886
0.465	1.11042	221.615	245.7191	1.3349	0.06183	1.3349	181.2939	241.9618
0.65538	0.94	547.6328	507.6993	1.18315	0.06597	1.18315	471.0819	556.8021
0.74585	0.91459	142.2559	132.2332	-1.30898	0.48162	0.76396	100.0435	76.11324
0.4195	1.07572	634.4042	685.1813	-1.06052	0.38836	0.94293	1092.455	1029.05
0.65666	0.97392	2580.236	2519.906	-1.22201	0.00431	0.81832	2708.095	2217.731
0.04073	1.16802	11422.12	13388.71	-1.25569	0.00034	0.79637	13389.11	10613.68
0.34296	1.05228	1573.941	1653.516	1.13285	0.06481	1.13285	2438.924	2753.194
0.5819	1.11285	198.6036	224.017	1.13524	0.17583	1.13524	362.6715	411.8633
0.24793	0.85474	554.7745	477.9672	-1.20966	0.3324	0.82668	450.9127	369.3683
0.2631	1.12936	626.8937	703.9138	1.00958	0.89408	1.00958	603.8237	609.8323
0.56739	1.13385	900.5989	1039.786	-5.09263	2.12E-36	0.19636	723.153	142.4116
0.87248	1.05867	97.55042	102.4914	-1.07824	0.89461	0.92744	70.561	64.34088
0.82194	1.02289	544.7744	554.1267	-1.02932	0.66108	0.97151	614.0825	596.4973
0.33014	1.04424	9924.375	10376.41	-1.07543	0.12673	0.92986	8967.05	8346.877
0.10834	1.08166	3006.814	3256.004	-1.0226	0.73367	0.9779	3264.77	3189.179
0.00108	0.79607	1961.468	1564.737	1.4453	7.28E-12	1.4453	1810.313	2617.012
0.90549	1.08007	69.62968	68.86568	1.48698	0.68357	1.48698	34.68753	49.76863
0.00516	0.86775	1645.886	1428.575	-1.10332	0.24759	0.90635	1686.645	1533.153
0.00179	0.7812	7488.695	5856.94	1.44086	5.05E-07	1.44086	5947.89	8589.009

0.7669	0.98059	10502.37	10364.41	-1.1255	0.11259	0.88849	10826.53	9576.926
0.03058	1.14061	1248.302	1422.024	1.02386	0.70588	1.02386	1315.704	1348.281
0.63865	1.03464	566.9403	587.0864	-1.05706	0.43688	0.94602	573.8434	542.8949
0.25086	0.92919	2804.047	2604.039	-1.01638	0.78413	0.98388	2513.899	2472.056
0.00358	0.78051	4263.733	3314.979	1.39669	8.04E-06	1.39669	3626.301	5074.707
0.02017	0.79593	483.0358	382.9271	-1.07043	0.59998	0.93421	355.639	331.1835
0.59465	1.06541	414.7313	438.1349	1.15282	0.08261	1.15282	415.6019	478.9344
0.90545	1.12739	28.30734	31.91425	1.06588	0.95867	1.06588	29.95477	33.67661
0.02365	0.8358	3229.677	2714.936	-1.16179	0.00616	0.86074	4111.154	3531.507
3.68E-07	1.55561	375.2416	582.2589	2.86562	2.41E-20	2.86562	332.6136	950.1997
0.4626	0.96236	5537.14	5321.169	-1.07747	0.18294	0.9281	5449.645	5041.98
0.21392	1.06505	6663.411	7073.769	1.06837	0.10145	1.06837	5871.43	6272.883
0.40294	0.78661	273.8204	231.2851	-3.31764	4.36E-09	0.30142	404.3325	122.3876
0.98385	1.00153	7006.204	6976.203	1.24419	0.00009	1.24419	7715.36	9602.309
0.87742	0.98876	749.1468	738.563	-1.0481	0.41705	0.95411	820.3335	782.5989
0.88023	1.00802	4905.066	4947.707	1.00614	0.90448	1.00614	4349.993	4369.224
0.84469	1.00947	2334.027	2352.72	1.03373	0.46518	1.03373	2297.957	2376.728
0.67238	0.9054	4976.108	4281.539	-5.73244	0	0.17445	4247.578	739.9216
0.28716	1.06153	2683.365	2847.757	-1.24231	0.00074	0.80495	2703.571	2178.437
2.95E-08	1.61657	503.8172	812.2268	3.31727	0	3.31727	408.0582	1352.031
0.26162	1.39075	95.74394	132.4752	1.84202	0.08504	1.84202	74.43912	137.176
0.2409	1.21311	367.7356	455.1169	1.37331	0.05132	1.37331	306.3623	416.8723
0.99366	0.99874	1404.658	1425.821	-1.29821	7.33E-07	0.77029	1263.039	972.8562
0.00018	0.83829	3464.271	2904.871	1.07947	0.24223	1.07947	5046.27	5431.597
0.19413	1.08418	6841.688	7446.317	-1.01963	0.71008	0.98075	7267.57	7113.23
0.68553	0.96663	679.4402	658.8413	1.15982	0.07523	1.15982	594.6081	688.141
0.31369	0.74309	161.2933	122.8245	-1.32368	0.56083	0.75547	89.39629	67.1499
0.2099	1.08521	2792.342	3019.221	-1.0455	0.43617	0.95648	3731.399	3606.199
0.40646	1.07544	505.9121	542.1564	-1.03858	0.69519	0.96285	513.9592	495.503
0.94703	0.95097	51.11645	51.2621	-1.02656	0.97073	0.97413	58.54802	55.70443
0.00736	0.77024	1146.199	883.4763	-1.11098	0.03699	0.90011	1316.518	1184.551
1	1	18.98355	25.35791	1	1	1	17.9952	33.19521
0.63409	1.03995	534.9746	554.76	-1.07704	0.3055	0.92847	587.9384	545.592
0.15436	1.09074	3785.843	4147.886	1.1081	0.13647	1.1081	3724.215	4109.372
1.53E-08	0.741	14847.02	10995.04	-1.34663	1.28E-06	0.74259	13557.25	10064.66
0.80425	0.98476	1046.02	1029.673	-1.1664	0.05312	0.85734	988.9446	845.5907
0.36169	0.93019	557.0269	516.893	-1.32052	0.00319	0.75728	488.6935	369.5531
0.83334	1.01032	1572.218	1586.762	1.00275	0.96064	1.00275	1594.656	1600.586
0.10914	1.15376	755.9568	877.7816	-1.02038	0.71997	0.98003	912.6519	894.1522
0.60179	1.04634	2048.775	2157.84	-1.0437	0.38836	0.95813	2091.37	2003.646
0.13392	0.88281	610.0698	537.0231	1.7326	5.95E-18	1.7326	552.5599	957.6487
0.75319	0.92285	137.8735	128.3906	1.2888	0.37976	1.2888	125.9997	161.5503
0.47846	1.08236	2936.088	3240.231	-1.67265	1.38E-06	0.59785	3479.849	2058.253
0.94905	0.99128	403.7355	405.2446	-1.22454	0.04801	0.81663	506.9	412.7706
0.0317	1.10916	16020.41	17750.82	-1.3607	0.00002	0.73492	18295.5	13345.29
0.84621	0.95995	284.3671	284.5237	-1.34436	0.01079	0.74385	397.202	296.072
0.54076	1.04582	1082.707	1137.486	-1.15824	0.11561	0.86338	1212.743	1043.497
0.96613	0.98704	139.2999	134.4968	1.30507	0.22043	1.30507	162.9674	214.1796
0.69266	0.87206	132.7912	112.1041	-1.07566	0.7014	0.92966	185.8705	172.4302
0.21703	1.06728	926.3679	988.1986	-1.03551	0.54954	0.9657	1015.07	981.0527
0.83689	1.01849	465.0772	472.2967	-1.3823	0.00418	0.72343	426.1125	307.5237
0.62769	1.2102	69.83485	85.03353	-1.84804	0.2888	0.54111	100.8515	54.47529

0.2113	0.90779	2328.302	2096.701	-1.39137	4.21E-08	0.71871	3141.916	2261.236
0.70239	1.03162	962.8254	997.8416	1.07802	0.25576	1.07802	866.6937	933.4197
0.73304	0.97956	1117.633	1092.274	-1.10014	0.21039	0.90898	1217.828	1102.347
0.03911	0.83804	841.4183	701.5946	-1.11054	0.13805	0.90046	687.9108	620.0913
0.81552	1.05521	136.1251	143.6516	1.02878	0.88091	1.02878	252.4853	263.2058
0.47808	0.91412	274.7483	251.2214	-1.02271	0.9039	0.9778	231.0404	226.8063
0.80798	1.03665	279.882	292.1838	-1.24452	0.08198	0.80352	315.7972	253.6166
0.67965	0.90536	381.0059	330.4067	2.39546	1.06E-07	2.39546	294.3102	713.3781
0.01888	1.51907	273.1899	408.786	2.54066	0.00004	2.54066	271.994	696.4873
0.90292	0.99118	3762.499	3720.493	-1.00039	0.99523	0.99961	3356.969	3354.359
0.32101	0.82735	368.9321	292.4388	-1.05351	0.59649	0.94921	587.1534	555.135
0.18129	1.11532	678.6325	755.251	1.4436	3.85E-09	1.4436	738.7806	1066.892
0.83892	0.98757	1398.098	1382.808	1.12725	0.03291	1.12725	1291.944	1455.927
0.58321	1.03868	1437.275	1488.742	1.0169	0.75907	1.0169	1603.084	1633.185
0.48438	1.03517	9003.014	9338.277	-1.06244	0.30558	0.94123	9088.478	8569.021
0.44385	1.20554	122.0011	146.0222	-1.36458	0.39826	0.73283	130.6868	95.39735
0.939	1.00489	2320.273	2323.912	-1.06165	0.16161	0.94193	2391.209	2252.17
0.94705	0.99372	3150.863	3136.959	1.01436	0.85992	1.01436	2851.115	2899.434
0.72989	0.97186	760.3063	741.484	-1.02417	0.79851	0.9764	652.0772	638.9041
0.16224	1.08955	872.0465	948.397	-1.03227	0.65125	0.96874	896.6462	866.9868
0.7294	1.05798	195.5576	207.1346	-1.18187	0.55962	0.84611	162.7848	136.2395
0.00252	1.20327	13912.4	16712.93	1.13073	0.12583	1.13073	15130.05	17088.22
0.61661	1.1355	134.217	152.4263	-1.01687	0.96741	0.98341	101.2683	98.02078
0.73917	1.06673	166.3178	178.4716	1.04783	0.82808	1.04783	181.7693	190.0631
0.30872	1.07695	1232.504	1321.376	1.01903	0.72593	1.01903	1345.714	1372.555
0.91879	1.00646	679.3146	683.108	1.10791	0.14759	1.10791	627.5065	695.8373
0.19299	1.09579	2059.804	2250.229	1.20521	0.00053	1.20521	2226.101	2686.252
0.09708	0.89015	1413.618	1258.335	1.11328	0.1198	1.11328	1174.844	1309.268
0.01696	0.79461	1012.229	798.7105	-1.01173	0.8898	0.98841	791.068	784.0718
0.58018	0.9556	702.7916	673.6535	-1.02912	0.66862	0.97171	580.2532	563.8427
0.00939	1.32728	9207.045	11972.28	-2.35115	1.05E-14	0.42532	17720.21	7434.104
0.12591	0.89296	919.5208	820.2324	1.24088	0.0001	1.24088	844.6176	1047.853
0.00016	0.61429	1921.666	1159.736	-1.34141	0.00543	0.74548	1296.569	969.7051
0.27336	1.09441	623.2958	679.8225	1.54359	0.00004	1.54359	634.494	976.02
0.79124	1.22972	43.34072	55.89216	1.13477	0.7468	1.13477	79.18307	89.52467
0.56482	1.02571	1495.054	1533.451	1.0089	0.90507	1.0089	1366.138	1380.027
0.55508	0.86207	135.8483	117.0411	-1.17165	0.64541	0.8535	113.4729	96.91138
0.06515	1.17871	22698.88	26636.63	-1.98184	2.90E-15	0.50458	27288.49	13629.84
0.00629	0.68654	504.5401	342.317	-1.28221	0.06023	0.7799	415.1508	325.8401
0.30056	1.16887	242.777	281.9325	1.00653	0.97328	1.00653	210.4341	210.3791
0.3897	0.83372	243.1562	198.401	1.39305	0.03121	1.39305	183.0309	254.7523
0.98645	0.99776	1618.899	1636.565	-1.24689	0.00007	0.802	1478.177	1185.679
0.99413	1.0006	2373.815	2371.996	-1.05519	0.46551	0.9477	2485.591	2364.967
0.48552	0.96923	3380.239	3272.309	1.03435	0.49009	1.03435	3118.331	3228.496
1	1	16.98319	21.47636	1	1	1	18.13009	32.72728
0.99632	0.99974	1004.206	1002.918	-1.10254	0.30799	0.907	979.9197	885.271
0.75458	1.03287	397.671	411.8036	-1.04064	0.67925	0.96094	408.3807	392.8955
0.64292	1.02196	2783.367	2842.024	-1.14163	0.00184	0.87594	2760.783	2418.197
0.65872	1.02692	3872.474	3999.167	-1.14116	0.04813	0.8763	4036.584	3544.365
0.73339	0.98153	860.4611	845.0773	-1.07862	0.27487	0.92711	865.2966	801.0906
0.39664	1.04147	2322.491	2419.395	-1.07316	0.28806	0.93183	2228.368	2075.104
0.74394	1.05127	265.3062	276.7273	-1.0221	0.8091	0.97838	403.127	394.6005

0.17559	1.13623	10571.78	11966.75	-1.53233	0.00391	0.6526	14908.95	9676.01
0.26527	0.88537	393.897	347.9894	1.14387	0.26191	1.14387	341.6739	390.8367
0.36372	1.04271	1661.91	1733.854	-1.03747	0.50707	0.96388	1861.482	1796.579
0.06964	0.79514	582.5736	458.2671	-1.06572	0.59049	0.93834	552.2211	521.5648
0.00001	0.82302	5785.542	4760.481	1.24563	2.22E-06	1.24563	5210.549	6492.085
0.08049	0.81286	794.0161	639.7914	-1.52376	0.00032	0.65627	783.3326	516.7672
0.55697	0.94039	688.6704	652.2361	1.1641	0.13268	1.1641	533.3729	618.342
0.04204	0.80983	7221.318	5848.385	1.30699	0.00101	1.30699	6042.029	7909.189
0.19206	1.11957	1394.336	1547.155	1.05423	0.49457	1.05423	1441.206	1528.579
0.07696	0.81853	1622.759	1332.618	-1.18655	0.00285	0.84278	1350.67	1138.871
0.34556	1.07445	575.5049	616.8452	1.20318	0.0096	1.20318	683.6008	821.6104
0.35179	1.06247	631.7949	671.6238	1.39169	0.00828	1.39169	589.0003	815.2938
0.3254	0.89603	342.9401	308.1818	1.20876	0.20322	1.20876	313.6665	376.1256
0.822	1.11897	58.99147	66.01151	-1.35982	0.71519	0.73539	55.95188	41.40524
0.6176	1.02497	2163.346	2214.142	-1.00199	0.96433	0.99801	2253.434	2248.781
0.97518	0.99671	401.2556	401.0844	-1.0403	0.81329	0.96126	431.4883	410.0364
0.90144	0.98322	667.7312	664.0684	-1.27126	0.02234	0.78662	492.0479	388.1209
0.5461	0.85899	280.9136	253.2412	-1.47796	0.17479	0.67661	149.8264	101.3688
0.29854	1.22785	43706.81	52168.99	-2.87173	5.02E-11	0.34822	69236.69	23245.02
0.53183	1.2357	92.73888	116.0398	1.03531	0.94057	1.03531	80.22359	83.14919
0.86111	0.82863	43.91014	33.29322	1.26194	0.85056	1.26194	23.03177	39.86536
0.20111	1.09359	9991.592	10972.95	-1.13977	0.0765	0.87737	11147	9750.068
0.96038	0.98804	141.2488	140.6781	-1.12453	0.72334	0.88926	133.0194	116.6332
0.00306	0.74795	828.779	616.6941	1.35505	0.0001	1.35505	779.5151	1055.292
0.1357	0.93612	7257.721	6789.815	1.08007	0.09305	1.08007	6870.007	7419.319
0.58858	0.93054	307.6028	284.5734	1.02595	0.871	1.02595	273.7635	280.949
0.043	0.74041	16686.53	12263.69	-1.58936	0.0002	0.62918	13025.64	8138.354
0.14736	1.10074	1359.487	1499.261	-1.13919	0.04928	0.87782	1543.921	1355.323
0.47523	0.96086	857.4608	824.3602	-1.04203	0.63909	0.95967	759.2677	726.5045
0.66939	0.95702	490.1812	471.397	-1.04153	0.66239	0.96012	414.0029	397.5726
0.77509	0.98654	1561.363	1541.373	-1.09314	0.13423	0.9148	1512.845	1381.569
0.07844	1.10016	3384.414	3722.346	-1.43903	2.32E-12	0.69491	4136.92	2881.238
0.15878	0.81972	789.0503	652.7129	-1.31738	0.05821	0.75908	629.9381	473.2611
0.42743	1.08552	609.9712	657.7662	1.02534	0.70075	1.02534	654.5358	671.3759
0.01245	0.78464	5283.318	4158.22	-1.15299	0.12726	0.86731	3954.519	3405.072
0.22561	0.91952	724.795	665.2102	1.8307	1.18E-12	1.8307	593.8921	1084.755
0.11635	0.86214	13533.05	11738.07	1.38225	1.65E-06	1.38225	13715.7	18961.58
0.33349	0.95409	3831.708	3645.371	1.02703	0.64752	1.02703	3887.161	4004.508
0.23889	0.93088	1254.084	1169.7	1.13652	0.03301	1.13652	948.3147	1078.554
0.46311	0.90559	311.8431	280.8317	1.26081	0.13306	1.26081	280.4225	355.8521
1	1	18.69299	24.59278	1	1	1	18.57898	32.37861
0.15016	1.09477	4273.813	4669.606	1.04633	0.40836	1.04633	4421.375	4631.985
0.04195	0.77477	3398.308	2597.771	-1.15155	0.24328	0.8684	3058.36	2654.89
0.8205	1.01474	1581.135	1596.924	-1.11221	0.07766	0.89911	1642.268	1474.251
0.21833	1.09308	6163.374	6740.361	-1.04964	0.38217	0.95271	6069.859	5790.356
0.39239	0.94572	1506.308	1424.643	1.23098	0.00018	1.23098	1375.478	1693.886
0.00607	1.13566	3480.766	3949.585	-1.39754	4.75E-15	0.71554	4282.229	3064.347
0.16007	1.10197	1969.808	2167.799	1.17853	0.00139	1.17853	2051.567	2419.011
0.95406	1.00938	210.2961	212.4186	1.03935	0.82151	1.03935	212.402	220.8433
0.20475	0.88331	604.5661	531.156	1.43481	0.00006	1.43481	450.1951	644.753
0.65057	1.04447	2535.242	2676.03	-1.12663	0.09209	0.8876	2340.601	2078.474
0.22068	1.07272	5217.114	5608.377	1.00816	0.85659	1.00816	5682.336	5729.44

0.3313	1.04469	2305.345	2406.524	-1.20311	0.00082	0.83118	2431.843	2021.465
0.24574	1.0765	771.3603	831.6319	1.11363	0.22922	1.11363	814.2828	904.3908
0.63948	1.06824	367.054	387.3104	1.08849	0.42092	1.08849	340.985	371.3952
1	1	18.29697	21.21318	1	1	1	17.39003	30.53341
0.00265	0.83064	28551.66	23689.79	1.2487	0.00292	1.2487	27595.68	34457.3
0.73438	1.13212	99.6918	114.5909	1.51142	0.09399	1.51142	140.6809	211.8123
0.89812	0.99408	1454.658	1446.29	-1.07598	0.2173	0.92939	1436.813	1334.439
0.03371	1.13396	3247.606	3686.899	-1.10583	0.1463	0.9043	3903.443	3521.186
0.33786	1.0479	2203.833	2307.529	-1.12597	0.00906	0.88812	2580.271	2292.068
0.39856	1.05858	669.8932	710.3838	-1.23197	0.06329	0.81171	623.3309	502.7223
0.46794	1.03978	1690.911	1755.712	-1.1898	0.00022	0.84048	1592.397	1338.176
0.06614	1.09263	1023.385	1118.327	1.05102	0.45697	1.05102	912.0557	957.2231
1	1	18.95444	23.59769	1	1	1	17.49161	32.09056
0.34708	1.09673	1011.792	1102.844	-1.02528	0.75269	0.97534	1052.411	1029.612
3.35E-14	0.64854	1738.052	1126.997	-1.55437	1.51E-09	0.64335	1469.02	944.4443
0.5219	0.93876	323.449	303.443	-1.02307	0.87045	0.97745	277.0624	270.0909
0.23606	1.05334	3425.316	3606.958	1.19542	0.00869	1.19542	4095.802	4890.064
0.96645	0.99778	3700.205	3692.582	1.35976	3.18E-06	1.35976	3840.795	5223.652
0.72965	1.17603	57.56149	67.98447	1.41962	0.49708	1.41962	71.25241	98.58356
0.15416	1.11094	697.9573	777.3674	1.75807	1.86E-13	1.75807	588.0237	1032.247
0.7843	0.9749	421.964	412.0461	1.26538	0.02751	1.26538	688.3584	867.1215
0.0021	0.75252	7409.336	5571.77	1.24012	0.00003	1.24012	6019.015	7461.733
0.70564	1.14559	73.45284	84.29965	-1.1399	0.79752	0.87727	78.93393	69.19839
0.00056	0.63457	432.0573	276.5489	1.14265	0.57886	1.14265	308.994	346.7897
0.02254	1.29209	279.5868	360.1194	1.88262	4.08E-10	1.88262	295.424	555.299
1	1	17.81234	22.40919	1	1	1	19.29983	30.85416
0.84587	1.01385	2292.958	2323.611	1.00105	0.98631	1.00105	1838.939	1847.189
0.79353	0.98042	1384.193	1363.703	-1.20434	0.06943	0.83033	1465.834	1212.664
0.1215	1.28441	213.2972	275.9942	1.95421	0.00015	1.95421	273.4002	526.2368
0.96938	1.01554	87.59701	90.67758	-1.07527	0.73974	0.93	184.1766	171.1598
0.08169	1.20967	411.7206	494.7718	1.22533	0.02516	1.22533	377.8315	463.0801
0.60775	0.95652	694.1836	666.4677	-1.03888	0.68039	0.96258	511.4221	491.1948
0.67043	0.90785	166.3351	149.6239	-1.08576	0.7637	0.92101	155.5954	143.6549
0.49648	1.10168	256.9597	284.8976	-1.61948	0.00267	0.61748	307.0411	189.4711
0.79462	0.98548	1409.029	1391.729	-1.06738	0.23123	0.93687	1437.389	1345.318
0.33647	1.06154	659.9612	701.1449	-1.19975	0.01501	0.83351	626.4353	522.359
0.32143	0.77877	132.3977	103.3326	-1.2597	0.4608	0.79384	121.0932	95.77623
0.90773	0.98714	799.6307	783.7185	1.12273	0.4539	1.12273	791.6562	888.8157
0.7648	0.94781	256.7817	247.3772	1.31982	0.18697	1.31982	212.2237	279.3982
0.64249	1.0292	4353.113	4504.425	-1.09133	0.25778	0.91631	4730.177	4341.724
0.58376	1.11775	222.6212	254.6395	1.06334	0.58617	1.06334	367.1918	390.4202
0.5804	1.04009	1223.755	1278.911	1.02933	0.59271	1.02933	1229.783	1265.667
0.13018	0.82481	845.3085	702.1428	-1.00712	0.9644	0.99293	713.2046	708.1654
0.82909	0.95601	215.3513	209.7461	-1.02517	0.8965	0.97545	219.6597	215.7221
0.12274	1.12431	675.3051	756.8827	1.11422	0.05456	1.11422	781.6063	870.9399
0.9342	0.99508	988.7709	982.2588	-1.08682	0.22998	0.92011	1208.724	1113.741
0.80382	1.02123	2066.72	2106.863	-1.00367	0.93906	0.99635	2166.908	2158.804
0.19157	0.8957	11679	10479.75	1.72687	2.02E-13	1.72687	10978.78	18962.85
0.90474	0.93024	70.49356	66.35817	1.26059	0.64451	1.26059	58.67408	73.84524
0.0408	1.20585	4396.092	5226.59	-1.72218	4.55E-11	0.58066	6509.026	3754.328
0.32081	1.14239	288.879	327.6578	1.22832	0.07803	1.22832	388.7853	479.6412
0.52798	0.94004	460.53	434.7457	-1.07645	0.67471	0.92898	301.3218	281.5118

0.1785	1.08247	2080.191	2239.366	1.05958	0.22526	1.05958	3696.96	3919.911
0.91484	1.03653	111.3545	113.1327	1.6176	0.0578	1.6176	104.7468	169.7097
0.6082	0.93997	423.1744	394.5886	1.21034	0.09759	1.21034	464.9547	559.2464
0.9028	0.94316	80.03563	77.81049	1.14231	0.84613	1.14231	65.2984	76.97914
0.37699	1.1186	256.0476	285.4232	1.01115	0.94065	1.01115	283.0978	284.8012
0.18499	0.9212	3840.326	3544.355	1.77223	1.87E-24	1.77223	3529.588	6261.251
0.27193	0.88942	3136.575	2797.542	1.24744	0.02312	1.24744	2600.723	3251.81
0.82031	0.98245	1417.375	1402.311	-1.04537	0.38013	0.95659	1397.842	1336.691
0.80235	0.97025	431.5922	422.5048	1.62914	0.00139	1.62914	350.7466	565.9636
0.20578	1.07986	2288.87	2462.916	1.16447	0.00073	1.16447	2158.249	2514.613
0.62807	1.06666	3725.535	3954.705	1.12527	0.26729	1.12527	3696.001	4168.625
0.64892	0.96764	974.4891	944.1213	-1.09736	0.22089	0.91127	653.0283	594.3471
0.01635	1.17814	4608.553	5415.104	-1.49535	0.00006	0.66874	6224.887	4127.03
0.25341	0.83994	1720.86	1468.667	-2.31922	8.32E-18	0.43118	883.5053	381.8527
0.37716	0.8888	2910.26	2552.448	-1.58771	3.75E-08	0.62984	2785.386	1758.839
0.68247	1.39567	31.32825	43.86395	1.10642	0.89744	1.10642	43.91224	48.6761
0.90843	0.98076	900.6085	885.3145	1.74946	2.92E-07	1.74946	1007.144	1769.945
0.33621	0.52195	77.86399	41.25872	1.26129	0.60829	1.26129	86.0407	111.0052
0.69297	1.05188	348.6635	369.8667	-1.23245	0.24575	0.81139	276.5711	225.9509
0.00014	0.63186	9984.431	6286.235	-1.03278	0.77154	0.96826	7906.915	7692.608
0.95776	0.99443	795.7703	789.1672	-1.06027	0.36708	0.94316	1077.742	1017.859
0.15032	1.16996	413.5487	481.0065	1.20592	0.07279	1.20592	462.5374	558.6771
0.00128	0.75027	3175.589	2375.22	-1.00418	0.97604	0.99584	2752.989	2737.705
0.40843	1.1108	698.9417	782.7603	-1.02648	0.65762	0.97421	1686.675	1648.671
0.21587	0.86714	3158.979	2747.852	1.22807	0.00142	1.22807	2750.963	3383.227
0.83724	1.0314	181.6164	187.3716	-1.32242	0.30268	0.75619	176.321	132.1586
0.09943	1.08641	5913.259	6443.717	-1.02888	0.71348	0.97193	6562.293	6435.345
0.20022	1.12402	1515.197	1700.748	1.11072	0.03818	1.11072	1619.793	1800.319
0.00007	0.65595	12978.3	8494.559	-1.46036	7.95E-07	0.68476	12088.75	8233.23
0.36448	1.09078	1535.967	1676.93	-1.2302	0.00408	0.81288	1819.368	1477.747
0.41365	1.0575	5744.584	6110.971	-1.15361	0.06005	0.86685	6241.421	5406.87
0.45926	1.04988	595.2024	625.5159	1.17719	0.02629	1.17719	579.1449	682.1349
0.00446	0.75973	3385.236	2570.367	1.16846	0.11241	1.16846	2732.898	3194.794
0.81786	1.01938	965.1503	983.4266	-1.05502	0.42301	0.94785	1280.26	1211.819
0.08333	1.11997	795.108	890.6522	1.03519	0.49859	1.03519	1175.903	1216.838
0.93632	0.96988	109.3347	104.9861	-1.02181	0.95621	0.97866	101.2515	100.263
0.86747	0.97993	375.5602	369.915	-1.16903	0.09742	0.85541	465.3012	398.6173
0.41698	1.07364	1603.81	1702.513	1.00332	0.94934	1.00332	2861.844	2867.744
0.25288	0.83057	5231.537	4301.771	1.45669	0.01036	1.45669	4362.088	6412.395
0.99355	1.00078	604.9661	602.0845	-1.01525	0.8366	0.98498	573.1723	564.3806
0.32443	0.94579	2315.223	2183.336	-1.12808	0.04332	0.88646	2140.59	1904.518
0.22071	0.8952	649.7999	579.4216	-1.13704	0.24968	0.87948	597.7264	528.7141
0.85523	0.97728	282.3823	276.1523	-1.05213	0.66626	0.95045	313.6137	297.7684
0.37787	0.88703	393.0901	345.0179	-1.01433	0.90561	0.98587	294.2324	290.0346
0.01971	1.11782	2581.01	2884.377	1.07625	0.08583	1.07625	2965.798	3191.427
0.02706	0.56808	347.5397	190.5191	-1.05524	0.82169	0.94765	230.3228	220.0003
0.41574	0.96207	3077.25	2964.566	-1.03053	0.59554	0.97038	3225.904	3121.834
0.0018	1.20642	649.4408	782.8682	1.28247	0.0014	1.28247	711.8793	911.4931
0.29846	1.06951	3512.399	3767.053	-1.13184	0.018	0.88352	3495.622	3093.622
0.72159	0.96961	8710.006	8489.435	-1.32727	7.29E-06	0.75343	8607.174	6484.959
0.66493	1.12166	134.1925	148.3246	1.07232	0.82577	1.07232	117.43	126.4625
0.25625	1.07797	8189.825	8830.651	1.94841	2.74E-26	1.94841	8919.727	17398.63

0.92484	1.01007	2085.052	2126.663	-1.28249	3.22E-07	0.77973	2123.899	1656.166
0.73727	1.04816	466.1833	487.4805	1.29934	0.00066	1.29934	492.4634	640.4805
0.27897	0.81908	204.4002	168.2847	1.26376	0.13598	1.26376	196.3163	247.6448
0.75992	1.03494	1047.163	1093.55	1.44153	0.0003	1.44153	978.3584	1405.21
0.01859	0.88461	29659.14	26258.56	1.12059	0.01996	1.12059	29712.98	33307.16
0.24259	1.13202	758.6245	854.7828	1.10433	0.18718	1.10433	787.6893	868.3481
0.88506	0.81687	25.64292	24.74141	1.0106	0.99216	1.0106	38.15012	40.1413
0.98652	1.01792	27.56522	28.24689	1.15721	0.89456	1.15721	27.64594	41.03981
0.07609	1.25557	11389.64	14206.26	-1.75229	0.00094	0.57068	19765.41	10844.06
0.99674	0.99954	553.0842	548.2925	1.01626	0.85956	1.01626	506.7335	515.9761
0.16744	0.88981	15613.55	13878.48	1.15076	0.06009	1.15076	14816.55	17044.96
0.64364	1.03247	3381.311	3490.915	-1.00708	0.89065	0.99297	3179.979	3162.275
0.00452	1.1333	7586.176	8597.023	-1.08149	0.33215	0.92465	9308.986	8582.992
0.924	1.00397	3818.226	3832.992	1.35452	2.16E-11	1.35452	3753.04	5084
0.95615	1.00581	429.3906	429.7723	1.03171	0.76319	1.03171	431.2927	446.2617
0.72061	1.02074	5779.176	5874.192	-1.07136	0.23996	0.93339	5030.8	4703.134
0.63391	1.04533	379.7836	397.8478	-1.06515	0.50164	0.93883	375.4465	352.4671
0.05857	0.89599	2703.285	2421.873	1.08452	0.09087	1.08452	1972.836	2141.889
0.19198	0.92211	7461.72	6878.421	-1.07086	0.19011	0.93383	6882.999	6425.686
0.22874	0.78963	3310.253	2591.871	-2.78625	1.00E-17	0.35891	1654.519	593.4085
0.01741	1.10859	3347.033	3712.805	-1.20556	0.0005	0.82949	3933.148	3253.649
0.71456	1.02623	644.3826	660.0559	-1.33667	0.00199	0.74813	647.0642	482.6594
0.51896	1.0299	2068.227	2131.637	-1.03033	0.53746	0.97056	2182.514	2119.874
0.13602	0.85159	2270.157	1918.099	1.27874	0.00145	1.27874	1997.291	2570.399
1	1	19.7015	20.82677	1	1	1	18.09414	32.90026
0.57627	1.04505	964.317	1013.039	-1.10789	0.24512	0.90262	937.1062	843.2288
0.28284	1.0735	1938.039	2075.58	-1.21414	0.01238	0.82363	2111.441	1740.329
0.00824	0.76378	455.8359	349.4965	-1.33742	0.03881	0.74771	398.2911	295.6292
0.00211	1.19791	37131.18	44328.12	1.23016	0.04103	1.23016	46987.93	57939.07
0.00021	0.67568	1457.129	990.6099	-1.96172	4.83E-20	0.50976	1426.311	727.6453
0.58705	1.16807	116.8984	134.7351	1.6182	0.02424	1.6182	121.4705	196.3062
0.60335	1.0413	890.4037	924.892	1.16454	0.01024	1.16454	874.8424	1018.382
0.33493	1.07306	7258.584	7766.206	1.00186	0.97039	1.00186	6381.132	6396.765
0.27201	0.80171	6664.085	5096.916	-2.31141	3.22E-10	0.43264	3397.419	1469.845
0.56086	1.04324	2723.79	2858.703	1.06577	0.3577	1.06577	2644.58	2815.318
0.83342	1.0451	246.9815	255.4428	1.11855	0.49754	1.11855	247.8567	277.2239
0.62539	1.14512	140.3632	159.6724	1.41442	0.00449	1.41442	288.7097	407.9034
0.11341	1.19863	6496.915	7787.388	-1.09725	0.1842	0.91137	9867.204	8863.863
0.82741	0.95412	151.8641	144.902	-1.04207	0.84857	0.95963	201.5855	191.9674
0.63497	1.0945	158.4421	173.9142	1.13622	0.42964	1.13622	209.6877	238.2329
0.02038	0.82015	3841.814	3148.3	1.00241	0.97775	1.00241	3336.581	3334.851
0.73117	0.9339	205.2164	190.5313	-1.02254	0.90687	0.97796	193.2513	189.658
0.56739	1.06572	296.4106	315.5523	1.19105	0.07274	1.19105	312.7722	372.4859
1	1	18.74321	24.35703	1	1	1	18.28107	32.42757
0.03487	1.18414	725.8369	861.9493	1.28027	0.03405	1.28027	652.7797	831.9138
0.54423	1.11854	205.1166	227.4869	1.18283	0.23688	1.18283	233.9672	277.0037
0.00071	1.19539	2313.708	2765.076	-1.07984	0.15968	0.92606	2715.62	2517.985
0.0002	0.59821	1318.982	781.2952	-1.22071	0.01595	0.81919	867.2471	712.3431
0.41923	0.92783	2392.833	2186.958	1.03161	0.58899	1.03161	3835.945	3947.599
0.81994	1.07206	104.593	111.434	1.42073	0.31896	1.42073	105.2608	146.4748
0.84148	0.98969	4728.662	4674.069	-1.0719	0.13789	0.93292	3946.314	3679.164
0.85723	1.0146	526.196	532.6749	1.11894	0.37015	1.11894	505.0648	560.7383

0.7677	1.03167	337.5454	347.6032	-1.01044	0.9331	0.98967	363.9504	358.64
0.66928	0.96884	27579.58	26643.58	1.07687	0.1974	1.07687	29384.32	31686.74
0.1722	1.09859	5898.689	6508.173	-1.04273	0.52527	0.95902	5994.487	5784.911
0.00439	0.84291	1366.506	1152.249	1.66312	2.33E-10	1.66312	1224.652	2033.099
0.0011	1.19373	1373.693	1641.836	1.17151	0.01455	1.17151	1430.969	1676.986
0.85823	1.01935	828.5981	836.3123	1.06691	0.48393	1.06691	709.7282	759.9008
0.62175	1.04148	615.7274	638.9446	-1.18747	0.10189	0.84212	569.3401	477.4576
0.92246	0.98995	400.2657	394.607	1.035	0.72151	1.035	370.428	383.5413
0.00278	1.13844	1577.323	1795.631	1.06835	0.16625	1.06835	1822.341	1947.015
0.08636	0.84429	753.9905	633.0587	1.21615	0.00771	1.21615	622.7395	756.28
0.00426	1.14936	3076.644	3540	-1.08951	0.26924	0.91784	3697.485	3388.593
0.09162	1.09533	1449.189	1583.831	1.05432	0.28063	1.05432	1658.616	1749.354
0.72152	1.10731	138.9044	154.7807	1.35867	0.03181	1.35867	210.9735	286.2469
0.12237	1.24545	386.7889	473.7645	1.36659	0.00003	1.36659	814.1061	1115.979
0.56718	1.03587	708.418	734.4131	1.03866	0.56917	1.03866	649.9744	675.5248
0.91239	1.00888	533.2225	538.9736	-1.06222	0.49406	0.94143	513.0573	483.7502
0.8846	1.10116	60.78391	72.5986	1.28296	0.70699	1.28296	60.96893	74.80542
0.58306	0.89534	1528.909	1372.1	-2.50926	0	0.39852	2401.997	957.1
0.21613	1.05855	2810.596	2973.853	1.03294	0.4795	1.03294	3027.606	3125.846
0.84916	0.9758	3045.803	2978.303	1.03367	0.58067	1.03367	3165.34	3269.354
0.86991	1.01613	1274.376	1304.627	-1.16706	0.01832	0.85686	1124.415	962.9308
0.47909	1.04655	3994.846	4181.476	-1.31575	3.04E-07	0.76003	4135.901	3145.843
0.68521	1.12138	154.243	167.4695	1.1526	0.28346	1.1526	243.8991	281.2343
0.92705	1.01135	447.3467	456.0877	-1.02207	0.81568	0.9784	698.5128	680.9804
0.01091	0.64323	4797.174	3025.021	-1.10532	0.47062	0.90472	4084.164	3662.182
5.45E-06	0.65309	97771.75	63963.81	-3.52361	0	0.2838	99529.13	28241.14
0.79405	1.02434	406.2319	416.5071	1.1022	0.26532	1.1022	425.0631	468.1136
0.76022	0.97217	1315.841	1283.71	-1.12877	0.06176	0.88592	1266.569	1120.649
0.22551	1.08025	2559.122	2770.42	-1.12929	0.03918	0.88552	3211.798	2842.439
0.25999	0.95206	4229.209	4027.667	-1.19035	0.00275	0.84009	4581.972	3848.118
0.34933	0.90163	924.2239	838.2682	-1.63958	0.00004	0.60991	734.2533	450.088
0.30579	0.85425	1408.188	1205.576	1.2244	0.04031	1.2244	1341.367	1647.502
0.49791	1.04336	2259.12	2352.208	1.00928	0.86829	1.00928	2437.684	2457.183
0.78574	0.93608	235.1196	229.9041	-1.22608	0.09568	0.81561	329.7788	269.3963
0.74986	1.04094	1572.269	1634.501	-1.6603	1.13E-15	0.6023	1776.938	1069.451
0.63006	1.02304	5340.871	5465.075	1.15757	0.00351	1.15757	5296.911	6131.667
0.23299	1.06766	3541.633	3782.789	-1.0091	0.88829	0.99099	3852.408	3806.67
0.49967	0.7837	102.4003	81.1852	-1.01779	0.97213	0.98252	67.42571	66.23149
0.46053	0.94109	1080.996	1024.614	-1.07298	0.36302	0.93198	970.8537	902.0224
0.68203	1.0626	191.8622	203.6541	-1.0765	0.68907	0.92893	204.6308	190.6989
0.01914	0.76411	1535.394	1178.237	-1.43017	0.00197	0.69922	1512.744	1056.039
0.91105	1.01162	882.4185	902.8093	-1.19359	0.09484	0.83781	831.6739	692.7722
0.11742	0.88595	1912.413	1689.589	1.44512	0.00001	1.44512	1846.627	2678.486
0.16484	0.93932	5394.565	5061.608	1.33665	0.00043	1.33665	4821.74	6458.188
0.00048	0.57461	638.4185	360.2115	-1.27454	0.06335	0.7846	489.4877	386.7886
0.88131	1.05352	93.57637	98.87749	-1.15803	0.79377	0.86354	91.65905	77.73927
0.06771	0.87053	684.5918	594.9714	-2.06106	1.40E-08	0.48519	657.6932	319.251
0.79799	0.95878	762.6732	743.6155	-1.00041	0.99364	0.99959	1351.759	1350.61
0.16675	1.08392	862.9741	934.1966	-1.0214	0.75584	0.97904	767.0472	750.3128
0.14	0.90943	12103.67	10964.17	-1.37456	0.00021	0.72751	12802.83	9307.841
0.42566	0.89551	549.6484	485.5563	-1.02472	0.88122	0.97588	456.6284	450.0958
0.75374	1.02099	1834.965	1884.516	-1.02785	0.68756	0.9729	1735.167	1683.055

0.14463	1.19231	241.3438	287.466	1.31706	0.05927	1.31706	261.1425	343.9463
1	1	21.73576	22.63598	1	1	1	18.58892	32.44135
0.96799	1.0028	609.7091	610.4898	1.00177	0.9839	1.00177	646.187	645.5385
0.67222	0.97629	1580.596	1545.801	-1.02472	0.68306	0.97588	1448.556	1412.039
0.84053	1.05634	124.9625	131.4822	1.83373	0.09478	1.83373	98.39426	175.2079
0.29573	0.89924	3496.31	3162.687	-1.21203	0.0001	0.82506	2761.688	2278.986
0.01567	0.83883	3153.829	2632.072	1.09626	0.24303	1.09626	2685.194	2949.86
0.08309	0.76605	501.9274	379.038	-1.13948	0.3294	0.87759	516.4263	456.5356
0.2715	1.08419	2876.262	3114.658	1.07169	0.166	1.07169	2918.923	3130.181
0.04821	0.8749	1716.442	1503.259	-1.21965	0.00091	0.81991	1431.736	1172.813
0.03717	0.84996	16726.96	14237.22	1.04516	0.45428	1.04516	15688.29	16385.6
0.64703	1.02957	1090.156	1123.813	-1.39595	0.00005	0.71636	1173.934	843.52
0.98366	0.99749	922.6304	929.5986	-1.25101	0.00761	0.79936	766.6869	611.3842
0.08704	1.13936	1496.113	1713.44	1.17876	0.02371	1.17876	1379.511	1623.016
0.3216	1.05152	4421.886	4640.448	-1.0388	0.36321	0.96265	5095.265	4905.062
0.19784	1.24707	31092.94	37504.23	-4.22435	1.40E-16	0.23672	51409.43	11541.65
0.07123	1.11743	1141.32	1276.052	-1.19988	0.02003	0.83341	1433.317	1191.455
0.33284	1.10393	2729.716	2985.062	-1.17518	0.00864	0.85093	5437.289	4622.867
0.70337	1.02847	7664.615	7835.332	1.47632	3.13E-11	1.47632	7719.443	11426.03
0.06058	0.76908	699.6755	530.7513	-1.27078	0.05344	0.78692	563.447	446.0299
0.49524	1.04852	1594.641	1683.197	-1.09823	0.16012	0.91055	1502.735	1362.929
0.75607	0.94614	194.4222	184.9782	1.08433	0.62423	1.08433	189.1974	205.1878
0.01933	0.84036	1133.634	951.1588	1.93744	4.38E-12	1.93744	921.4824	1792.761
0.82725	0.93495	107.6586	99.81148	-1.51305	0.60871	0.66092	57.21375	38.77973
0.73707	1.07449	173.0241	183.6805	1.14615	0.68853	1.14615	131.0262	147.426
0.04406	0.60132	342.8303	199.7702	1.02611	0.90843	1.02611	243.8651	254.9987
0.32416	1.0447	2438.414	2548.065	-1.22057	0.00306	0.81929	2463.829	2017.505
0.16209	0.7933	191.0225	151.5308	-1.02592	0.82041	0.97474	306.9618	299.2495
0.14077	1.13883	1973.307	2253.444	-1.84866	1.21E-11	0.54093	2056.646	1106.098
0.81423	1.04854	169.9666	176.8205	1.10295	0.6428	1.10295	156.3254	172.914
0.95894	1.0123	177.0278	177.9838	1.24771	0.3304	1.24771	151.3795	189.4111
0.85334	1.02591	321.7188	329.449	1.15387	0.22869	1.15387	271.4297	312.9421
0.50627	1.02863	3324.504	3420.443	-1.12406	0.00817	0.88963	6077.386	5409.386
0.99165	0.9855	22.53371	23.53376	1.18824	0.90358	1.18824	21.30125	36.22462
0.00202	1.49929	60386.06	90766.73	-2.33311	2.72E-08	0.42861	89212.42	37888.38
0.85705	1.02064	8628.364	8806.449	-1.39293	0.00083	0.71791	8791.21	6321.914
0.70621	1.04168	550.7165	569.538	1.48097	1.33E-07	1.48097	543.8767	804.495
0.0321	1.19484	1783.686	2129.417	-1.42021	1.34E-10	0.70412	2192.578	1543.562
0.45722	1.09751	1422.686	1561.407	-1.08415	0.10859	0.92239	3075.799	2832.817
0.0122	1.11597	2097.354	2340.813	-1.16951	0.02764	0.85506	2244.8	1916.196
0.73037	1.09342	14827.56	14994.55	-12.98694	0	0.077	23447.69	1788.875
0.03558	0.90238	6199.124	5586.608	-1.14492	0.0112	0.87342	6188.334	5393.719
0.54077	0.90739	306.1162	274.0641	1.3688	0.02401	1.3688	269.0267	366.7098
0.57267	0.86303	1142.885	990.8347	-5.92494	1.40E-45	0.16878	898.3432	151.4059
0.96577	0.98032	74.30183	71.75608	1.1546	0.48041	1.1546	159.2834	184.4307
0.90359	1.00678	4441.182	4456.021	1.03565	0.44086	1.03565	4773.041	4941.73
0.96572	1.00439	940.4343	937.0762	1.07704	0.24943	1.07704	930.6067	1003.849
0.3296	0.81053	925.9702	730.0309	1.05492	0.75254	1.05492	773.3163	825.9976
0.00001	0.44704	667.3546	290.3575	-1.31295	0.00952	0.76164	524.2896	397.8861
0.82533	0.98423	515.4669	506.9522	-1.08385	0.43802	0.92264	502.3088	462.4896
0.93197	0.9583	88.73886	86.33601	-1.54552	0.49115	0.64703	73.73834	47.19295
0.00185	0.43381	545.8765	232.4428	1.69128	0.02354	1.69128	197.7882	333.3554

0.80003	1.05454	184.567	196.2445	1.40065	0.14214	1.40065	160.5633	222.5263
0.75609	0.89973	147.0237	128.4398	-1.02304	0.93809	0.97747	133.7636	131.9441
0.06723	0.86083	2122.17	1839.564	1.546	4.44E-17	1.546	2102.479	3249.124
0.00778	0.7021	17415.13	12077.38	-1.50625	0.00099	0.6639	13707.13	9021.092
0.96799	1.00193	68508.89	68651.24	-1.55246	2.04E-13	0.64414	87987.78	56512.86
0.06805	1.12589	1299.422	1460.963	-1.08898	0.17329	0.91829	1400.88	1286.984
0.50843	1.04554	674.4835	706.1547	1.02878	0.69835	1.02878	682.0065	701.0277
0.21758	0.93716	885.5166	829.9769	-1.07557	0.28261	0.92974	758.9674	705.2455
0.64539	1.03661	1154.578	1205.631	1.02883	0.60794	1.02883	988.4984	1016.44
0.59314	1.0673	282.0145	300.9772	-1.0137	0.87289	0.98648	614.2408	606.9396
0.55722	0.92434	371.8367	340.1041	-1.10629	0.35025	0.90392	533.5365	484.6921
7.24E-06	0.74432	1629.4	1209.63	1.60993	1.19E-09	1.60993	1299.135	2094.561
0.87294	0.99264	2205.482	2188.901	-1.4361	3.24E-11	0.69633	1948.431	1359.12
0.7568	0.98067	999.2326	977.4995	-1.05863	0.33301	0.94462	1043.531	984.7296

WT/OVA v: WT/OVA v: WT/OVA v: WT/OVA v: WT/OVA vs. KO/OVA

Fold Change	P-Value	Ratio	Intensity 1	Intensity 2
-1.5662	7.65E-08	0.63849	6292.002	3955.08
-1.23361	0.05234	0.81063	9932.104	7817.621
1.12964	0.00568	1.12964	7072.128	7997.556
-1.01083	0.89733	0.98929	707.2112	702.6783
-1.06567	0.4142	0.93837	3272.208	3104.243
1.28687	0.84113	1.28687	32.40612	38.66081
-1.09922	0.86396	0.90974	76.0545	69.42827
1.00851	0.87027	1.00851	2110.292	2128.773
1.13293	0.05473	1.13293	1464.005	1658.353
-1.04535	0.67928	0.95662	430.6248	412.775
1.20873	0.00482	1.20873	2414.214	2939.436
1.02937	0.77067	1.02937	3783.953	3965.796
-1.03932	0.61724	0.96216	3283.01	3152.319
-1.03792	0.6135	0.96346	977.0808	937.9428
-1.05344	0.83923	0.94927	207.8118	203.8285
-1.01354	0.89978	0.98664	476.1292	472.0756
1.00006	0.99963	1.00006	340.5208	340.7876
1.03731	0.70146	1.03731	1543.031	1597.041
-1.22829	0.20976	0.81414	457.5335	378.4451
-1.04623	0.77925	0.95581	441.1771	418.2331
-1.02833	0.91053	0.97245	204.3298	200.1755
-1.05335	0.42943	0.94936	1949.728	1850.417
1.00994	0.82594	1.00994	5542.947	5596.592
-1.10858	0.85808	0.90206	99.96823	88.51002
-1.29267	0.05348	0.77359	829.0344	649.7089
-1.04632	0.68213	0.95573	595.8882	568.6743
-1.01594	0.81734	0.98431	1514.798	1487.628
-1.12672	0.4862	0.88753	438.8008	394.8839
1.24944	0.02764	1.24944	1540.407	1932.943
1.037	0.70754	1.037	4818.093	5126.599
1.00412	0.95104	1.00412	2880.779	2879.106
-1.00999	0.99183	0.99011	39.40366	37.58018
-1.06227	0.16225	0.94138	3933.299	3702.604
-1.06733	0.45242	0.93692	614.2163	578.4019
-2.06093	0.00003	0.48522	1466.708	715.7219
1.00596	0.98076	1.00596	218.779	221.6785
-2.69009	1.68E-36	0.37174	5120.51	1875.467
-1.07299	0.8299	0.93198	146.4075	136.3513
1.02234	0.82601	1.02234	782.6498	803.4328
-1.03873	0.85022	0.96271	293.2506	282.4421
-1.07784	0.47429	0.92778	646.0759	605.2061
1.13522	0.2252	1.13522	1132.132	1283.578
-1.04901	0.90477	0.95328	98.20609	92.0723
-1.09876	0.50345	0.91011	336.4502	307.183
1.03144	0.61924	1.03144	1177.842	1212.449
-1.5466	0.00002	0.64658	920.8451	599.7517
-1.03506	0.89848	0.96612	220.1726	208.7798
1.05755	0.63808	1.05755	1217.527	1274.205
1.20211	0.00152	1.20211	1275.346	1532.608
1.07789	0.44239	1.07789	436.197	470.1465

1.31466	0.00157	1.31466	637.9196	836.8643
-1.24692	0.01617	0.80197	1641.367	1317.16
-1.35619	0.00531	0.73736	3484.349	2531.575
-1.07389	0.68016	0.93119	299.348	283.4494
-1.09681	0.75665	0.91174	115.2075	104.686
1.57989	8.32E-18	1.57989	5339.752	8397.509
1.01079	0.84449	1.01079	1409.765	1423.835
-1.00365	0.97175	0.99636	651.1515	650.3632
1.06422	0.23888	1.06422	5527.13	5905.982
1.01178	0.79081	1.01178	4763.529	4818.792
-1.00345	0.98559	0.99656	256.5638	256.0652
-1.14786	0.41158	0.87118	385.9562	344.8102
-1.06697	0.30952	0.93723	1401.306	1316.339
1.05607	0.61869	1.05607	720.816	769.5179
-1.72196	1.79E-07	0.58073	1776.146	1033.962
-1.13104	0.70888	0.88414	102.8282	91.08931
1.03413	0.60139	1.03413	1303.697	1351.412
-1.0383	0.45593	0.96311	2284.527	2203.443
-1.13271	0.6248	0.88284	239.5944	209.0452
1.027	0.61919	1.027	978.8891	1005.923
-1.0131	0.83148	0.98707	1305.656	1284.43
1.16826	0.07619	1.16826	1057.316	1237.223
-1.02878	0.66755	0.97203	4270.204	4156.055
1.08559	0.95964	1.08559	24.55239	26.3681
1.05123	0.75035	1.05123	263.7847	279.1033
1.10737	0.09707	1.10737	2838.575	3117.068
1.48079	0.09944	1.48079	152.0561	222.7114
-2.02471	4.48E-07	0.4939	6666.17	3136.337
-1.04562	0.54027	0.95637	747.1945	717.0815
-1.085	0.47345	0.92166	790.6193	730.8104
-1.51341	1.93E-06	0.66076	2739.99	1795.479
-1.06808	0.26631	0.93626	15869.03	14716.87
-1.05133	0.56963	0.95117	541.7637	516.3643
-1.148	0.07951	0.87108	5811.459	4973.464
-1.04154	0.75055	0.96012	450.2862	437.3449
1.12433	0.36096	1.12433	588.3455	672.6466
1.19369	0.05272	1.19369	665.2456	790.2539
1.02793	0.66781	1.02793	6167.985	6409.797
1.21351	0.08359	1.21351	619.39	744.6951
1.19956	0.09864	1.19956	747.9339	890.114
1.2864	0.10719	1.2864	359.97	460.0015
-1.03735	0.7152	0.96399	1226.927	1181.056
-1.23215	0.57398	0.81159	114.2236	94.15874
1.05708	0.30772	1.05708	1658.239	1753.005
-1.10724	0.44707	0.90314	579.9028	524.1193
1.11292	0.1513	1.11292	1901.714	2122.552
1.10705	0.5932	1.10705	366.4599	409.6124
1.10611	0.14909	1.10611	716.0369	791.5909
-1.03139	0.62949	0.96957	2638.111	2546.631
1.09363	0.36936	1.09363	1810.69	1988.027
-1.05946	0.79743	0.94388	238.4548	225.3117
-1.06981	0.34048	0.93474	1270.165	1195.178

-1.17321	0.29864	0.85236	320.077	275.2824
-1.00108	0.98719	0.99892	1810.359	1805.163
-1.21234	0.17986	0.82485	1991.518	1589.5
1.01426	0.86905	1.01426	742.1975	752.3103
-1.03337	0.86233	0.96771	321.3921	309.3568
1.05729	0.53101	1.05729	2673.898	2866.997
-1.0038	0.97023	0.99621	503.2253	499.4533
-1.25099	0.01069	0.79937	4650.494	3656.758
1.10789	0.07309	1.10789	14158.22	15801.21
1.12013	0.21203	1.12013	819.2908	909.9183
-1.06744	0.48638	0.93682	698.3112	656.5574
-1.00597	0.91195	0.99407	6060.844	6022.873
1.06435	0.40569	1.06435	983.604	1044.35
-1.03144	0.85297	0.96952	372.0648	362.7668
1.03653	0.70846	1.03653	677.4726	696.7615
-1.04493	0.66074	0.957	609.8164	580.0692
1.27691	0.0203	1.27691	648.4122	822.1154
-1.08909	0.64255	0.9182	428.1692	401.2325
-1.19338	0.00149	0.83795	2737.806	2302.44
1.02306	0.84831	1.02306	565.4567	584.0247
-1.02976	0.61002	0.9711	1082.32	1052.829
-1.02049	0.78543	0.97992	713.6227	700.9171
-1.11274	0.65985	0.89868	256.9979	234.0774
1.1475	0.13732	1.1475	1012.001	1157.975
-1.12177	0.83897	0.89145	102.6962	89.73518
-1.01613	0.82428	0.98412	2199.04	2171.338
1.10129	0.21527	1.10129	7434.564	8275.951
-1.00529	0.94087	0.99474	3698.863	3631.991
-1.61628	8.57E-09	0.6187	2462.917	1505.65
-1.18288	0.03643	0.84539	832.0763	705.6139
1.17381	0.30086	1.17381	360.5251	432.3253
1.00028	0.99694	1.00028	838.1269	836.2897
-1.33926	0.18049	0.74668	377.2575	278.0674
-1.43602	3.02E-11	0.69637	1555.78	1083.417
1.07943	0.50355	1.07943	849.8232	908.8832
1.06137	0.35748	1.06137	883.5786	938.2743
-1.16562	0.18701	0.85791	19970.81	16368.01
-1.10166	0.80076	0.90772	149.9614	136.0002
-1.18749	0.69072	0.84211	83.21658	69.69343
1.05831	0.28463	1.05831	55764.78	58601.6
-1.08924	0.42703	0.91807	538.5233	495.1724
1.1279	0.58799	1.1279	203.8371	225.2732
-1.6248	0.11326	0.61546	332.8796	211.6562
1.20884	0.07321	1.20884	599.6908	719.9908
-1.12982	0.53949	0.8851	1542.318	1332.112
1.02535	0.75383	1.02535	1344.393	1373.787
-1.14909	0.52654	0.87025	169.1791	147.9287
-1.09175	0.56886	0.91596	435.9592	397.2908
1.09608	0.5273	1.09608	345.3443	373.8628
1.30875	9.74E-06	1.30875	1751.831	2286.676
1.34561	0.00405	1.34561	226701.4	304391.4
1.14384	0.01131	1.14384	19406.27	22008.94

1.28116	5.48E-07	1.28116	28505.89	36680.32
-1.11853	0.73468	0.89403	201.0508	170.4058
1.09493	0.177	1.09493	1519.037	1664.201
-1.15118	0.13393	0.86867	1501.827	1316.294
1.16501	0.47946	1.16501	178.5741	206.8209
1.00454	0.97165	1.00454	530.1893	526.0464
1.01276	0.94269	1.01276	311.521	316.4072
1.11823	0.67633	1.11823	159.0528	180.7101
1.01995	0.71197	1.01995	1558.09	1589.417
1.89345	3.54E-14	1.89345	16012.99	29783.48
-1.09823	0.11977	0.91056	2213.974	2012.708
-1.47327	1.18E-14	0.67876	22940.75	15633.07
1.32315	0.00034	1.32315	1318.775	1733.065
1.01128	0.89446	1.01128	1212.071	1228.389
1.01567	0.85464	1.01567	975.0332	985.3001
1.08623	0.26519	1.08623	5877.106	6466.717
1.02346	0.79271	1.02346	5313.233	5336.925
-1.01083	0.85353	0.98929	1295.844	1282.324
1.02015	0.74336	1.02015	2839.609	2898.368
1.10681	0.4956	1.10681	490.1326	540.8651
-1.63194	0.00308	0.61277	605.4307	381.294
-1.10902	0.46896	0.9017	565.4358	508.145
-1.23435	0.18233	0.81015	736.2441	610.9893
1.17182	0.06341	1.17182	1713.819	2011.12
1.00685	0.88188	1.00685	2067.3	2081.476
-1.22561	0.02113	0.81592	7746.189	6214.939
1.05945	0.43544	1.05945	1229.81	1302.749
-1.50589	0.00165	0.66406	648.5796	437.4028
1.0604	0.70507	1.0604	681.6986	706.4127
-2.01985	1.55E-08	0.49509	82605.37	40896.86
-1.07883	0.11367	0.92693	1882.546	1744.976
-1.12218	0.58927	0.89112	306.1043	269.5917
1.05069	0.65689	1.05069	437.8684	456.9589
1.03931	0.68429	1.03931	2092.676	2179.74
1.01307	0.87195	1.01307	3973.698	4030.425
1.04236	0.6868	1.04236	464.9414	485.7452
-1.06088	0.54008	0.94261	704.1481	667.7261
1.09164	0.04676	1.09164	21653.43	23684.88
-1.90131	5.76E-15	0.52595	2838.426	1480.06
1.07086	0.52246	1.07086	627.5503	665.2869
1.02934	0.64026	1.02934	1041	1072.71
-1.49785	2.87E-10	0.66762	1636.135	1091.478
1.01243	0.91768	1.01243	327.6623	331.1975
1.00721	0.89804	1.00721	8509.625	8560.531
1.0149	0.83651	1.0149	2688.78	2742.196
-1.03529	0.80241	0.96591	879.7119	861.1606
-1.10647	0.14223	0.90377	1755.373	1587.445
-1.08799	0.3738	0.91913	622.9367	569.919
1.04168	0.83474	1.04168	287.8752	291.7772
1.04759	0.63902	1.04759	1133.264	1184.151
-1.03035	0.68286	0.97054	690.2327	668.1997
1.00606	0.89973	1.00606	5323.709	5351.116

-1.03682	0.548	0.96449	1796.078	1728.261
1.11355	0.20456	1.11355	552.7913	614.173
-1.09419	0.4672	0.91392	715.5538	663.682
-1.06613	0.41163	0.93797	1138.446	1071.646
-1.1057	0.26216	0.9044	1917.683	1727.667
1.62031	0.3567	1.62031	66.4959	107.9176
-1.00567	0.97686	0.99436	264.5847	263.8767
1.01811	0.80219	1.01811	948.6862	964.4519
1.20115	0.01194	1.20115	85.31432	104.0307
-1.08634	0.42872	0.92052	1636.049	1490.505
-1.05951	0.47152	0.94383	985.7379	936.7485
1.14904	0.1933	1.14904	578.6872	671.3844
-1.12242	0.60687	0.89093	248.4478	221.8844
-1.05388	0.52166	0.94888	912.4546	861.798
1.01938	0.8199	1.01938	2200.746	2238.106
-1.14043	0.09813	0.87686	942.0381	822.5141
-1.48331	0.02677	0.67417	538.8434	365.2326
-1.00128	0.99634	0.99872	204.3524	206.9768
1.10889	0.06553	1.10889	1256.169	1392.907
-1.021	0.93604	0.97943	146.2394	143.2046
-1.09658	0.25475	0.91193	782.3297	711.2233
-1.18306	0.07999	0.84526	1206.191	1020.257
-1.30293	0.11427	0.7675	5944.956	4195.337
1.18043	0.07056	1.18043	8857.345	10584.82
1.01286	0.86558	1.01286	3172.752	3222.529
-1.00514	0.98723	0.99488	120.5436	118.3815
1.02079	0.80901	1.02079	2029.908	2086.383
1.07869	0.12587	1.07869	13180.98	14244.98
1.45773	1.26E-14	1.45773	3080.967	4482.058
1.04899	0.44888	1.04899	961.3701	1007.509
-1.04207	0.83593	0.95963	241.9726	231.9182
-1.07603	0.16425	0.92934	2938.426	2736.753
-1.03904	0.3799	0.96243	4934.107	4747.476
-1.15342	0.90229	0.86699	42.09608	37.07402
-1.19905	0.31297	0.83399	558.3247	448.8265
1.06267	0.20263	1.06267	8573.814	9081.853
1.06382	0.40818	1.06382	1886.8	2003.88
-1.03421	0.60145	0.96692	1790.816	1734.287
-1.00429	0.94961	0.99572	1526.897	1511.931
-1.28022	0.01686	0.78111	1201.626	938.9407
1.01462	0.89219	1.01462	631.8385	645.1146
-1.12031	0.24612	0.89261	6962.267	6117.493
-1.42924	0.08356	0.69967	360.0222	262.5263
1.08176	0.17808	1.08176	13973.44	14946.53
1.21115	0.65075	1.21115	129.2545	165.2722
-1.01638	0.76549	0.98389	2867.89	2821.316
1.03717	0.61519	1.03717	3771.853	3962.496
-1.14205	0.15468	0.87562	1686.937	1477.399
-1.05117	0.81123	0.95132	501.007	486.1631
-1.05594	0.822	0.94703	282.5485	255.7848
1.54375	0.14151	1.54375	123.3409	189.8733
1.00508	0.92303	1.00508	1430.167	1435.991

1.48381	0.09612	1.48381	151.2596	220.7231
1.02938	0.78013	1.02938	1709.502	1756.914
-1.02599	0.664	0.97466	2101.526	2045.812
-1.10097	0.65119	0.90829	240.2056	217.769
-1.12713	0.24124	0.88721	900.943	805.5502
1.13603	0.04078	1.13603	1342.434	1523.771
-1.10121	0.24038	0.9081	2384.033	2157.311
-1.0521	0.72367	0.95048	481.1315	459.0171
-1.01415	0.81403	0.98605	1347.103	1328.114
-1.02752	0.72877	0.97321	723.8429	704.4463
-1.11956	0.05125	0.89321	7174.904	6442.238
-1.80795	0.01289	0.55311	369.0598	213.8302
1.25025	0.28841	1.25025	277.0208	363.0577
1.22203	0.0164	1.22203	978.1181	1189.601
-1.52067	0.032	0.65761	4524.169	2793.444
-1.05647	0.24136	0.94655	19762.31	18664
1.65313	0.00005	1.65313	2735.531	4389.579
-1.20218	0.27102	0.83182	2899.042	2309.577
1.0389	0.83903	1.0389	252.553	258.4616
-1.26593	0.30756	0.78993	507.2681	402.0165
1.49041	5.22E-14	1.49041	7303.952	10940
-1.04519	0.3971	0.95677	232548	224155.6
1.10866	0.27421	1.10866	505.3343	563.3884
-1.08006	0.65054	0.92587	848.8585	804.9047
-1.12286	0.26453	0.89058	831.9219	746.0064
-1.1919	0.00004	0.839	26594.8	22339.02
1.00556	0.91669	1.00556	12396.63	12470.56
-1.05807	0.52724	0.94511	1194.313	1139.983
1.03207	0.62647	1.03207	3881.886	3957.671
-1.12275	0.52549	0.89067	369.6584	329.0157
-1.13949	0.23376	0.87758	2404.97	2076.665
1.02826	0.74504	1.02826	7017.434	7305.015
1.44038	0.22871	1.44038	139.9639	209.0874
1.02909	0.61966	1.02909	6181.563	6404.394
-1.0142	0.88561	0.986	564.5057	557.3379
-1.07013	0.23021	0.93447	2521.921	2346.422
-1.21048	0.09081	0.82612	1533.303	1256.428
-1.43112	0.0002	0.69875	2167.124	1494.781
1.11974	0.42923	1.11974	515.9412	563.9324
1.50112	0.00492	1.50112	425.9927	626.6714
-1.19492	0.22469	0.83688	1101.933	927.939
1.1788	0.01354	1.1788	755.6281	889.0934
1.04178	0.44238	1.04178	1602.2	1669.21
-1.11469	0.49139	0.89711	674.5064	617.2728
1.08326	0.56152	1.08326	558.8599	604.9862
-1.01353	0.77661	0.98665	2075.829	2047.774
-1.13918	0.55216	0.87783	292.7164	257.8788
-1.1554	0.33926	0.8655	474.6865	409.1828
-1.02898	0.78551	0.97183	526.1887	514.009
-1.06361	0.63307	0.94019	371.1438	348.9709
-1.00219	0.97571	0.99782	821.6668	816.597
-1.08486	0.4065	0.92178	772.9452	718.5951

-1.04022	0.66843	0.96133	552.0977	533.4188
-1.08027	0.2671	0.9257	1677.718	1559.346
-1.0046	0.94482	0.99542	1186.632	1175.769
1.02136	0.80766	1.02136	719.0964	730.4952
-1.25459	0.68004	0.79707	110.4495	87.16853
1.5545	1.65E-10	1.5545	7230.763	11356.41
1.2205	0.15041	1.2205	318.3333	385.4009
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1.27873	0.00044	1.27873	2913.405	3697.084
1.35613	0.00093	1.35613	1330.69	1814.751
1.2699	0.00716	1.2699	2045.435	2627.145
-1.04135	0.71046	0.96029	1980.199	1883.891
-1.04147	0.68746	0.96018	1924.06	1852.275
1.00977	0.90338	1.00977	13089.73	13104.25
1.01323	0.7917	1.01323	1392.914	1412.358
1.11163	0.37579	1.11163	480.1831	527.514
1.42355	0.04288	1.42355	231.7219	332.1508
1.04439	0.86889	1.04439	137.2341	141.9949
1.37806	0.00314	1.37806	990.9959	1360.067
-1.03293	0.71257	0.96812	1175.135	1136.257
-1.63735	0.00128	0.61074	2960.242	1798.491
1.28996	0.00003	1.28996	9441.225	12028.48
1.08823	0.43405	1.08823	550.5544	603.9651
-1.3894	0.00564	0.71973	1651.375	1180.124
1.01885	0.75822	1.01885	935.5254	952.8755
1	1	1	25.72252	20.94574
1.28699	1.16E-07	1.28699	1760.193	2265.72
1.0176	0.84163	1.0176	4574.006	4534.573
-1.05838	0.60518	0.94484	421.2413	400.2934
-1.0123	0.9115	0.98785	418.8888	413.0934
1.01695	0.83029	1.01695	3138.115	3209.65
-1.11685	0.37708	0.89537	426.9427	382.576
-1.11794	0.41958	0.8945	475.6359	432.8524
-1.07182	0.67285	0.93299	377.9933	354.1751
-1.10307	0.2807	0.90656	743.8204	674.9674
-1.0611	0.28187	0.94242	6140.232	5828.349
1.21859	0.47296	1.21859	221.2985	268.9547
1.01533	0.95031	1.01533	241.6669	248.564
-1.15358	0.75264	0.86686	98.28564	85.22786
1.66418	0.56139	1.66418	51.45096	80.0757
-1.04015	0.56197	0.9614	941.891	907.2288
1.05816	0.34023	1.05816	2764.146	2925.632
-1.1059	0.30297	0.90424	1079.75	982.246
-1.05439	0.37597	0.94842	1152.519	1095.442
1.01791	0.82185	1.01791	3603.995	3746.19
1.09334	0.2242	1.09334	7057.251	7814.164
1.03759	0.83986	1.03759	215.9716	222.1365
-1.1018	0.2674	0.90761	3111.542	2782.282
1.07302	0.45746	1.07302	1466.456	1565.49
1.04384	0.76596	1.04384	277.1303	290.8289
-1.11833	0.30257	0.89419	528.6401	474.0042
-1.14924	0.84917	0.87014	77.76412	70.44675

-1.03571	0.86488	0.96552	315.152	309.0932
1.02119	0.81369	1.02119	1631.812	1676.75
1.47267	0.00003	1.47267	9559.945	14517.06
1.01169	0.86112	1.01169	3164.363	3201.992
1.08172	0.19404	1.08172	1871.634	2018.469
-1.06099	0.66785	0.94252	518.7039	496.2221
1.06095	0.57575	1.06095	1353.457	1438.23
1.13747	0.75104	1.13747	118.546	136.2453
-1.09935	0.27737	0.90963	1004.411	915.8204
-1.87214	1.32E-06	0.53415	1462.886	787.5802
1.04001	0.87329	1.04001	242.944	256.0967
1.48044	1.78E-07	1.48044	3588.373	5262.551
1.18174	0.14608	1.18174	715.8535	837.0393
-1.04239	0.5064	0.95933	5761.096	5571.952
-3.45765	4.28E-08	0.28921	2610.394	683.2866
-1.06086	0.65039	0.94263	502.0585	479.7449
-1.12392	0.07817	0.88974	2727.905	2434.796
1.05149	0.45701	1.05149	1512.782	1592.994
-1.12251	0.13011	0.89086	3000.123	2644.292
-1.08598	0.6561	0.92083	385.911	351.018
-1.0356	0.53781	0.96563	6877.919	6679.635
-1.02824	0.64226	0.97254	1128.748	1097.151
1.1544	0.23456	1.1544	2734.781	3100.61
1.03912	0.83828	1.03912	294.0785	299.936
-1.17172	0.12995	0.85345	762.9375	657.3608
1.08848	0.18128	1.08848	37502.93	40240.1
-1.03171	0.62029	0.96927	37424.19	35777.06
1.01142	0.82591	1.01142	4531.514	4594.533
-1.02011	0.79253	0.98029	1131.097	1108.576
-1.00968	0.85159	0.99041	2813.871	2788.596
1.22073	0.06082	1.22073	1026.579	1244.515
-1.04968	0.38384	0.95267	3250.521	3082.051
-1.91133	0.00158	0.5232	341.4954	175.1991
-1.07524	0.31287	0.93003	726.2548	676.3098
1.17751	0.57829	1.17751	163.926	194.7018
-1.12432	0.43971	0.88943	685.8347	624.9951
-1.07052	0.48482	0.93413	673.3065	634.2434
-1.11981	0.42659	0.89301	1596.04	1409.426
-1.0115	0.87636	0.98863	1203.484	1191.616
-1.09651	0.61376	0.91198	325.829	303.6878
-1.02577	0.84583	0.97488	584.0062	560.0126
1.04804	0.38159	1.04804	1084.845	1136.81
1.02013	0.86772	1.02013	343.0963	351.1014
1.06339	0.3962	1.06339	952.1997	1010.63
1.01202	0.81321	1.01202	1739.668	1760.575
1.10157	0.25937	1.10157	483.7517	532.9476
-1.20474	0.0196	0.83005	1890.665	1571.426
-1.11039	0.3018	0.90058	564.492	512.1902
-1.09203	0.07267	0.91573	5836.7	5350.28
-1.5245	0.00762	0.65595	611.73	411.279
1.01736	0.80069	1.01736	2522.136	2594.913
1.00588	0.9217	1.00588	2376.433	2388.907

1.09078	0.46536	1.09078	15668.06	16557.2
-1.12814	0.01129	0.88642	8059.737	7164.29
-1.04652	0.28839	0.95555	5239.72	5009.179
1.07141	0.3356	1.07141	728.7707	779.5124
1.1367	0.06704	1.1367	5392.776	6252.298
1.07396	0.33913	1.07396	788.2821	845.3847
-1.03891	0.64604	0.96254	6356.249	6013.542
-1.027	0.72278	0.97371	985.7138	954.54
1.2796	0.00011	1.2796	3495.812	4437.856
1.01745	0.8737	1.01745	335.7695	341.9041
-1.12003	0.38172	0.89284	587.6292	524.1229
-1.08859	0.08682	0.91862	238.5538	222.21
1.09997	0.82003	1.09997	119.4171	124.4683
-1.27219	0.04729	0.78604	2269.324	1744.502
-1.02606	0.74349	0.9746	836.3217	811.3948
1.0556	0.69615	1.0556	319.3384	340.1657
1.30088	0.00572	1.30088	3345.345	4287.53
1.2282	0.00005	1.2282	2317.686	2852.105
-1.0006	0.99701	0.9994	349.3304	355.0491
1.03528	0.555	1.03528	2034.977	2103.752
1.10582	0.19766	1.10582	908.8564	1007.258
-1.02796	0.59318	0.9728	1727.177	1680.828
1.00336	0.9743	1.00336	904.9031	902.3495
1.08949	0.27465	1.08949	612.4957	667.0983
1.05091	0.51728	1.05091	957.9374	1009.798
-1.22966	0.2582	0.81323	359.683	301.1702
-1.41633	4.19E-07	0.70605	2471.804	1738.749
1.01521	0.8697	1.01521	516.6545	525.2367
-1.02408	0.87377	0.97648	393.4864	385.5665
1.03757	0.53312	1.03757	962.0689	998.5441
-1.06972	0.39802	0.93482	2525.631	2356.165
-1.0507	0.58479	0.95174	670.648	642.618
-1.01186	0.9062	0.98828	825.3425	821.8742
-1.17584	0.01402	0.85046	5004.96	4287.94
-1.20217	0.00303	0.83183	7898.74	6641.177
1.03241	0.80877	1.03241	412.1243	430.7241
1.09758	0.71709	1.09758	188.606	203.7167
-1.20684	0.23767	0.82861	488.3575	410.5995
1.38315	9.78E-06	1.38315	762.585	1055.864
1.42955	0.01176	1.42955	516.9295	755.2513
1.22198	0.11629	1.22198	26930.61	34898.5
-1.18977	0.01702	0.8405	2887.612	2400.431
1.24415	0.00136	1.24415	1009.511	1257.657
-1.27605	0.01883	0.78367	4324.939	3302.254
-1.10853	0.11017	0.9021	1028.292	928.3447
1.11799	0.093	1.11799	1422.749	1588.824
-1.28132	0.04557	0.78045	502.8251	394.948
1.02367	0.68327	1.02367	2553.833	2610.891
-1.06809	0.8791	0.93625	130.983	120.988
1.56524	0.00966	1.56524	461.7682	705.3566
-1.13524	0.43742	0.88087	459.843	401.4378
1.26862	0.00621	1.26862	6282.693	8115.271

-1.08245	0.4741	0.92383	612.0163	571.5512
1.12911	0.2984	1.12911	583.1128	667.0835
-2.05084	3.66E-16	0.4876	3103.331	1497.984
1.15447	0.00709	1.15447	3532.081	4066.032
1.14322	0.02385	1.14322	3301.771	3795.538
-1.2083	0.01207	0.82761	1009.826	836.0413
1.03397	0.74286	1.03397	646.6157	663.0729
-1.08288	0.53446	0.92346	485.8055	449.6298
-1.19655	0.048	0.83573	1333.659	1111.119
1.04309	0.52339	1.04309	2862.755	2992.228
1.83037	3.98E-15	1.83037	677.2372	1238.915
-1.00789	0.88176	0.99217	2448.18	2427.246
-1.007	0.89874	0.99305	1192.922	1183.016
-1.00296	0.98055	0.99705	312.4322	311.9606
-1.15231	0.12643	0.86782	642.5178	559.3855
-1.74836	3.58E-31	0.57197	31801.64	18237.76
-1.08713	0.08272	0.91985	3155.369	2900.577
1.11201	0.15058	1.11201	1137.245	1264.827
1.38584	0.00138	1.38584	410.5324	569.9962
1.07535	0.58587	1.07535	621.0028	655.4363
-1.02469	0.80614	0.9759	651.6918	638.2647
-1.10068	0.30043	0.90853	1393.615	1268.006
-1.04702	0.54031	0.95509	1142.749	1092.6
-1.09482	0.62299	0.91339	194.9587	178.6867
2.45466	8.36E-18	2.45466	388.4992	950.2858
-1.01299	0.98264	0.98718	76.46046	75.17569
-1.22139	0.00179	0.81874	1399.228	1148.822
1.02371	0.64388	1.02371	2671.051	2734.548
-2.15218	0.0241	0.46465	714.4879	314.8266
1.41423	0.00039	1.41423	2728.577	3801.369
1.00881	0.91899	1.00881	727.0684	729.2158
1.03399	0.83101	1.03399	238.6395	247.0698
-1.70932	7.91E-07	0.58503	4796.462	2714.969
-1.09137	0.40035	0.91628	692.1317	638.5792
-1.75392	4.27E-06	0.57015	1029.357	591.1607
1.02651	0.71392	1.02651	1408.352	1446.856
-1.64941	1.09E-15	0.60628	2162.533	1310.72
1.46357	0.00013	1.46357	10070.78	14484.46
-1.19223	0.51533	0.83876	238.141	196.9469
-1.05434	0.61924	0.94846	722.5667	677.8366
-1.26503	0.01931	0.7905	9881.602	8095.584
1.04055	0.46071	1.04055	1198.956	1249.003
-1.00155	0.99175	0.99845	445.9083	444.169
-1.12528	0.81197	0.88867	117.1034	102.946
-1.12861	0.65427	0.88604	200.5956	183.7613
-1.63267	7.77E-09	0.61249	1997.5	1215.44
1.00939	0.93282	1.00939	534.6164	534.2766
1.01596	0.95335	1.01596	211.8933	214.2712
-1.42025	0.01598	0.7041	1311.779	925.483
-1.01409	0.89051	0.9861	550.2163	546.7726
1.04263	0.59694	1.04263	1386.27	1450.62
1.04332	0.94094	1.04332	84.10221	87.81911

1.07106	0.52311	1.07106	466.295	495.7201
-1.03909	0.83575	0.96238	261.7045	251.935
-1.13356	0.6058	0.88217	243.1449	213.4229
-1.05692	0.48192	0.94615	803.0872	761.1453
-1.46126	0.23794	0.68434	156.6842	108.1774
1.01122	0.92439	1.01122	516.8528	521.9036
1.06222	0.44573	1.06222	974.2885	1034.89
-1.0644	0.59095	0.9395	3051.088	2833.313
1.16112	0.08867	1.16112	1024.174	1189.372
1.00963	0.85598	1.00963	1520.722	1536.068
1.11519	0.09605	1.11519	4275.972	4796.927
1.05192	0.47573	1.05192	1239.021	1304.459
-1.16088	0.42889	0.86142	309.8134	265.7993
-1.0187	0.91788	0.98164	253.6532	250.1947
-1.0492	0.63257	0.95311	476.5187	453.0677
1.09822	0.06957	1.09822	3238.616	3544.875
-2.40203	0	0.41632	7813.716	3264.639
-1.05799	0.60747	0.94518	419.7203	398.1585
-1.23162	0.00516	0.81194	3919.88	3152.353
-1.00585	0.96014	0.99418	478.2261	479.3809
1.26381	0.00667	1.26381	7081.029	8893.563
1.09359	0.3235	1.09359	3398.13	3634.68
-1.38535	0.00898	0.72184	933.4028	681.2327
-1.03538	0.55662	0.96583	1458.927	1410.273
1.88906	1.88E-06	1.88906	894.225	1693.136
-1.03232	0.7192	0.9687	2872.21	2809.102
1.02952	0.77284	1.02952	479.8847	492.2917
-1.00068	0.99437	0.99932	477.3736	478.7336
1.04935	0.69401	1.04935	372.7625	391.1608
1.02936	0.72537	1.02936	5934.555	6162.562
1.04574	0.48101	1.04574	1122.205	1175.014
-1.09659	0.92959	0.91192	37.36246	33.17577
1.09187	0.57235	1.09187	275.4462	301.7052
1.08165	0.84135	1.08165	138.3983	153.9492
1.04673	0.34652	1.04673	3743.309	3923.572
-1.1618	0.75798	0.86074	122.1251	102.3133
1.00351	0.93175	1.00351	5476.12	5495.44
1.09009	0.16266	1.09009	1240.467	1351.888
1.07924	0.43182	1.07924	709.2093	770.7131
1.31301	0.00403	1.31301	3910.769	5198.507
1.09685	0.53912	1.09685	305.6155	331.3922
1.14051	0.93642	1.14051	24.76053	29.53962
-1.11205	0.16081	0.89924	5749.65	5124.858
-1.02678	0.62366	0.97392	4580.249	4460.563
1.13815	0.07763	1.13815	1094.558	1245.33
-1.11117	0.53036	0.89996	463.2597	410.6386
1.3332	8.67E-10	1.3332	1859.831	2479.774
-1.03379	0.65704	0.96731	863.9472	839.662
-1.22093	0.00819	0.81905	6220.621	4999.773
1.09727	0.38287	1.09727	4985.093	5341.258
1.332	0.48953	1.332	92.2244	118.6214
-1.08829	0.35171	0.91887	1717.447	1585.858

-1.02924	0.78134	0.97159	882.3824	864.4122
-1.06397	0.80284	0.93988	217.3591	205.1604
1.00296	0.96891	1.00296	936.6578	942.7775
-1.03678	0.55362	0.96452	1674.071	1615.582
-1.14401	0.2839	0.87412	1457.935	1257.827
1.00063	0.99493	1.00063	666.3871	661.049
-1.0391	0.40454	0.96237	2372.104	2283.077
-1.11858	0.07619	0.89399	2183.201	1948.07
-1.13655	0.04205	0.87985	2913.042	2575.687
-1.14838	0.22212	0.8708	1005.433	887.7006
1.17303	0.08239	1.17303	858.771	1003.363
1.05072	0.63812	1.05072	495.608	516.7252
-1.45674	1.19E-06	0.68646	1926.923	1324.492
1.16541	0.05748	1.16541	2035.649	2363.054
1.03658	0.61497	1.03658	825.0637	857.4623
-1.01727	0.86558	0.98303	616.4225	610.7372
-1.38475	0.05175	0.72215	435.4675	321.8252
-1.00179	0.98209	0.99821	1144.408	1145.396
1.06652	0.39649	1.06652	1301.646	1387.193
-1.09327	0.12837	0.91469	2202.51	2027.406
1.44406	2.10E-12	1.44406	3524.292	5073.816
1.10713	0.20888	1.10713	597.0939	663.0951
-1.4106	0.00105	0.70892	1258.368	893.2821
1.36276	0.00011	1.36276	2638.301	3548.814
-1.0839	0.10159	0.9226	2712.992	2504.568
-1.04417	0.8299	0.9577	315.4258	303.6151
-1.00925	0.84946	0.99084	1878.776	1861.429
-1.04049	0.59999	0.96109	1245.168	1187.692
-1.01274	0.95563	0.98742	190.949	191.4491
1.07987	0.77792	1.07987	136.9118	147.0975
-1.06131	0.62403	0.94223	439.0482	410.0898
-1.02072	0.76131	0.9797	1726.072	1699.43
-1.05232	0.68382	0.95028	608.4392	579.5035
-1.48524	3.57E-10	0.67329	6547.271	4376.897
-1.11854	0.05878	0.89402	4898.673	4368.743
-1.04801	0.82842	0.95419	283.6029	265.39
-1.0665	0.51333	0.93765	1132.295	1062.934
-1.10904	0.05271	0.90168	1343.811	1212.916
1.38328	0.00008	1.38328	1660.032	2303.219
-1.15287	0.43947	0.8674	432.9428	371.8872
1.34194	0.00022	1.34194	15037.23	20759.82
-1.12905	0.00617	0.8857	7461.588	6597.863
1.09409	0.48081	1.09409	306.234	333.5585
1.01407	0.98912	1.01407	44.75698	45.37762
1.17262	0.00842	1.17262	1948.405	2292.572
1.0159	0.92107	1.0159	237.8841	241.2015
-1.08409	0.7754	0.92243	207.6031	192.8852
-1.3289	4.51E-07	0.7525	5206.792	3895.042
-1.11893	0.17089	0.89371	2156.514	1922.262
1.00817	0.90084	1.00817	4225.542	4268.301
1.17747	0.02212	1.17747	2004.38	2376.947
-1.35458	0.00205	0.73824	3259.889	2358.688

-1.16572	0.50083	0.85784	252.5113	215.6875
1.01298	0.89042	1.01298	1215.85	1233.717
-1.07955	0.33566	0.92631	641.5661	596.3042
1.07446	0.45333	1.07446	3368.56	3534.893
-1.0027	0.96372	0.9973	1356.766	1348.72
-1.16736	0.00022	0.85664	10274.83	8806.955
1.13326	0.10105	1.13326	5255.834	5855.62
-1.03207	0.8843	0.96892	158.5156	153.5136
1.02086	0.82482	1.02086	947.126	969.765
1.02446	0.65598	1.02446	1344.967	1379.281
1.05253	0.36196	1.05253	1583.127	1665.464
1.05752	0.55807	1.05752	908.5455	958.6194
-1.00567	0.96946	0.99437	439.3339	436.5643
-1.0504	0.79742	0.95202	202.2333	191.9414
1.00896	0.91294	1.00896	6698.886	6768.499
-1.03686	0.5187	0.96445	1040.92	1003.608
1.03075	0.71666	1.03075	718.4125	736.8848
1.17818	0.42976	1.17818	328.0559	367.0002
1.09279	0.72633	1.09279	214.7194	237.414
-1.01977	0.8351	0.98061	403.5984	396.2012
-1.49543	0.00095	0.6687	1997.779	1351.164
1.36599	0.03399	1.36599	370.9522	497.284
1.05286	0.65338	1.05286	645.5924	671.3501
-1.02423	0.8751	0.97634	5719.082	5256.647
1.02492	0.76533	1.02492	621.1289	638.4833
-1.11032	0.66005	0.90064	254.2496	228.5801
1.01538	0.83938	1.01538	6396.369	6633.149
1.06231	0.29105	1.06231	1417.65	1506.592
1.0503	0.17159	1.0503	3513.692	3691.584
1.06352	0.51994	1.06352	441.4731	467.7318
-1.0849	0.70294	0.92174	244.2287	225.7636
1.08623	0.61562	1.08623	240.3336	261.1865
1.00234	0.99268	1.00234	142.3279	141.5709
-1.05178	0.72522	0.95077	2721.819	2535.807
1.00854	0.95173	1.00854	282.6047	286.0178
-1.05619	0.592	0.9468	907.5571	863.8177
1.52242	0.00158	1.52242	374.1447	561.5885
-1.21364	0.20662	0.82397	353.7283	292.8992
1.02425	0.71894	1.02425	763.9563	781.9214
1.08029	0.28767	1.08029	1148.687	1240.8
1.07035	0.1151	1.07035	3713.231	3975.327
1.03701	0.75633	1.03701	1125.741	1159.565
1.79399	5.68E-12	1.79399	3969.041	7277.782
1.22698	4.03E-10	1.22698	7965.165	9802.361
1.06931	0.39639	1.06931	3654.033	3939.144
1.18567	0.01462	1.18567	1150.412	1363.515
1.13926	0.00806	1.13926	6105.73	6980.844
-1.0268	0.72864	0.9739	22270.68	22075.76
1.0407	0.69761	1.0407	6741.956	7166.227
-1.90405	2.71E-11	0.5252	1961.005	1032.412
1.02916	0.78699	1.02916	1378.8	1419.225
-1.21318	0.04927	0.82428	2364.055	1917.368

1.12168	0.48436	1.12168	286.1842	319.3941
1.02675	0.79923	1.02675	2804.875	2843.124
1.05121	0.50024	1.05121	860.6151	904.3337
1.09683	0.47323	1.09683	540.3012	583.2408
1.95939	1.47E-15	1.95939	18082.04	35848.43
-1.06848	0.30511	0.93591	7275.542	6817.305
-1.77372	2.90E-29	0.56379	4770.906	2684.392
-1.11607	0.39085	0.896	623.5615	557.2099
1.02254	0.61621	1.02254	2718.765	2780.668
1.03898	0.72298	1.03898	457.3772	476.5258
1.00617	0.97275	1.00617	238.1975	239.6357
-1.04405	0.7571	0.95781	381.585	365.7184
1.02761	0.73391	1.02761	1169.281	1202.986
1.06331	0.49909	1.06331	738.635	781.3385
1.15551	0.51794	1.15551	196.1238	224.489
-1.10856	0.12533	0.90207	1496.997	1349.02
1.34539	0.0041	1.34539	729.8502	971.7751
1.18644	0.04639	1.18644	582.658	693.6182
1.06267	0.399	1.06267	774.833	821.7209
1.47318	5.89E-06	1.47318	2551.853	3716.991
-1.11682	0.05607	0.8954	1299.466	1166.463
1.03619	0.67783	1.03619	5185.009	5264.42
1.0118	0.79141	1.0118	2226.5	2251.794
1.14933	0.17241	1.14933	626.3057	725.3335
1.2638	0.00207	1.2638	1240.635	1570.82
-1.11888	0.48824	0.89375	326.7166	291.8735
1.38108	1.63E-08	1.38108	1960.011	2714.485
1.04435	0.69031	1.04435	812.7576	838.9736
-1.11719	0.18794	0.8951	819.4225	735.3495
1.36955	0.00001	1.36955	1466.094	2012.355
1.0025	0.95742	1.0025	2828.482	2837.088
1.13259	0.09073	1.13259	8938.586	10205.14
1.50901	2.57E-08	1.50901	17216.99	25568.5
-1.21415	0.07268	0.82362	2219.252	1813.464
1.04993	0.42726	1.04993	1775.628	1863.124
1.03127	0.80661	1.03127	518.468	542.6607
-1.035	0.78086	0.96618	432.4254	415.9658
-1.08297	0.21094	0.92338	1588.145	1475.586
1.04441	0.88951	1.04441	162.9805	163.9971
-1.02751	0.69246	0.97323	1166.727	1135.501
1.16948	0.01505	1.16948	2271.126	2675.238
-1.00006	0.99974	0.99994	309.537	311.6577
1.13443	0.14973	1.13443	687.1012	775.256
1.15101	0.45619	1.15101	277.1077	311.1397
-1.02494	0.64341	0.97567	4113.003	4008.79
-1.05498	0.38732	0.94789	3158.798	2979.725
1.00095	0.993	1.00095	2728.775	2698.403
-1.12956	0.13206	0.8853	1255.874	1113.713
1.10875	0.30441	1.10875	1471.831	1653.902
-1.0146	0.94659	0.98561	207.896	202.1723
1.13987	0.24004	1.13987	485.6842	550.4668
1.19658	0.00303	1.19658	1217.072	1455.789

1.05734	0.33776	1.05734	1230.358	1304.61
1.01219	0.86285	1.01219	1007.925	1021.363
1.01998	0.82378	1.01998	2740.018	2745.82
-1.11799	0.47735	0.89446	517.2044	477.075
1.05064	0.63846	1.05064	374.2302	394.1721
1.46277	0.61185	1.46277	50.24572	72.17398
1.03636	0.7738	1.03636	366.9882	377.6246
1.02332	0.8046	1.02332	1721.044	1741.986
1.11106	0.46471	1.11106	813.0606	915.5018
-1.12089	0.20165	0.89215	2792.174	2457.905
-1.28474	0.00575	0.77837	2836.999	2181.889
1.20406	0.34123	1.20406	300.2674	352.2583
-1.15398	0.02719	0.86657	2579.617	2221.179
1.01361	0.93461	1.01361	289.2293	292.8495
1.07678	0.56043	1.07678	616.1848	653.0302
-1.01296	0.83548	0.98721	1121.562	1105.718
1.10442	0.41648	1.10442	568.8369	619.3252
1.03918	0.52602	1.03918	1072.985	1115.082
1.15455	0.25765	1.15455	376.3893	436.5622
1.06598	0.44102	1.06598	674.7368	716.1094
-1.43435	0.00001	0.69718	3535.29	2436.938
-1.08391	0.30183	0.92259	1960.053	1797.555
-1.04265	0.55648	0.95909	1997.621	1919.68
-1.06042	0.52854	0.94303	1495.233	1404.959
-1.12386	0.17775	0.88979	855.5261	757.4021
1.23138	0.00077	1.23138	13201.29	16118.09
-1.04665	0.28451	0.95543	3148.886	3008.556
1.02263	0.7798	1.02263	1039.089	1054.6
1.03942	0.36161	1.03942	3292.184	3421.824
-1.13069	0.06049	0.88441	1558.149	1378.71
1.21639	0.00064	1.21639	962.7191	1170.558
-1.0566	0.26025	0.94643	2286.752	2163.303
-1.18348	0.17164	0.84496	441.7285	373.1908
2.29555	9.36E-10	2.29555	265.4572	605.2189
-1.00868	0.85389	0.9914	1808.481	1793.44
-1.17877	0.13788	0.84834	7224.323	6179.208
1	1	1	24.17553	23.70844
-1.01257	0.86058	0.98758	4119.874	4053.397
-1.06744	0.40315	0.93682	1253.914	1176.981
-1.09339	0.3278	0.91459	1371.677	1257.137
-1.11098	0.556	0.90011	423.7478	396.27
-1.05562	0.77341	0.94731	241.8391	230.4363
-1.07265	0.34498	0.93227	2653.529	2453.763
-1.14246	0.33597	0.8753	410.0765	363.4672
1.02208	0.64412	1.02208	1734.209	1772.542
1.35594	0.01584	1.35594	258.2563	350.6185
-1.00533	0.98705	0.9947	140.9806	139.9837
1.06796	0.42947	1.06796	3341.372	3561.07
-1.7482	9.84E-21	0.57202	2432.893	1388.973
1.02286	0.75591	1.02286	813.5597	828.9322
1.84197	3.92E-08	1.84197	1199.416	2233.833
-1.47151	3.08E-12	0.67957	26080.53	17851.45

-1.02312	0.82608	0.9774	977.4587	967.3925
-1.12134	0.35295	0.89179	2040.342	1855.318
-1.15345	0.41936	0.86697	344.7972	299.1587
1.10879	0.22024	1.10879	7618.735	8579.517
1.30225	0.00669	1.30225	379.5392	492.7092
1.07362	0.75111	1.07362	260.7104	280.2789
1.00169	0.9689	1.00169	2804.567	2809.785
-1.10739	0.29746	0.90302	5298.116	4636.615
-1.28806	0.25446	0.77636	236.8935	187.2122
1.09048	0.39223	1.09048	408.7459	443.7546
1.01596	0.86222	1.01596	2048.36	2078.438
-1.22956	0.00001	0.8133	2737.631	2227.774
-1.01506	0.91026	0.98516	417.4314	411.4449
1.00354	0.95058	1.00354	2144.58	2152.497
1.15669	0.18925	1.15669	754.8353	884.9203
-1.2419	0.00479	0.80522	2669.083	2126.365
-1.01697	0.94545	0.98331	227.7725	223.7749
-1.10207	0.37515	0.90738	598.5184	546.1109
1.07773	0.53126	1.07773	1128.986	1215.107
1.26458	0.0328	1.26458	800.9929	1018.579
-1.83686	5.21E-07	0.54441	4617.712	2424.125
-1.04492	0.59073	0.95701	713.4338	685.5875
-1.07341	0.48277	0.93161	1534.121	1427.388
1.5424	3.09E-07	1.5424	744.9805	1150.834
1.1944	0.23181	1.1944	210.6946	251.9202
-1.09018	0.18259	0.91728	965.9553	888.2144
1.7369	1.45E-06	1.7369	1338.645	2297.999
-1.06564	0.44986	0.93841	3469.945	3212.308
-1.04504	0.38507	0.9569	1435.088	1371.57
1.24224	0.25182	1.24224	243.9838	308.3011
-1.01538	0.90379	0.98485	327.7894	322.2419
1.10245	0.23022	1.10245	1179.71	1301.919
-1.19239	0.80638	0.83865	82.29403	69.43745
1	1	1	23.06818	21.85299
-1.68876	0.00001	0.59215	1890.022	1107.896
-1.01352	0.88876	0.98666	948.8992	941.953
1.05184	0.78644	1.05184	197.6937	209.2357
-1.00006	0.99917	0.99994	2660.308	2660.075
-1.03337	0.70771	0.9677	611.1767	591.8072
1.05634	0.40909	1.05634	1956.781	2073.233
-1.01443	0.76816	0.98577	1247.856	1230.477
1.13316	0.18733	1.13316	4557.689	5062.592
-1.04636	0.66343	0.95569	1156.512	1110.296
1.03596	0.68561	1.03596	1079.308	1121.66
1.10709	0.66205	1.10709	219.2415	237.0372
1.67049	3.63E-08	1.67049	1487.943	2508.341
1.03625	0.74702	1.03625	514.8914	529.0593
-1.03115	0.6156	0.96979	1267.123	1232.001
1.07518	0.14977	1.07518	1542.197	1658.195
-1.73228	0.00201	0.57727	3167.833	1692.69
1.02866	0.74403	1.02866	781.3566	807.4871
1.04117	0.75821	1.04117	469.1496	482.5342

-1.10541	0.53215	0.90464	377.1317	342.3643
-1.11885	0.58631	0.89378	235.0199	213.1316
-1.02558	0.70643	0.97506	764.1295	745.2144
-1.08111	0.12347	0.92497	6822.247	6285.877
1	1	1	23.73093	21.27731
-1.09813	0.23001	0.91064	2970.166	2668.244
-1.03348	0.67334	0.96761	574.8803	556.4285
1.033	0.65071	1.033	1595.147	1646.362
1.00802	0.93927	1.00802	5959.476	5841.908
1.00278	0.96905	1.00278	3405.442	3378.123
1.04763	0.54876	1.04763	1107.295	1156.59
1.04174	0.76197	1.04174	432.3739	457.4358
1.00748	0.93148	1.00748	5889.431	5895.253
-1.1993	0.15735	0.83382	586.6271	488.1553
-1.08407	0.24099	0.92245	14426	13453.91
-1.09317	0.41944	0.91477	2314.71	2079.523
1.04018	0.86724	1.04018	189.8124	197.2003
-1.04701	0.60074	0.9551	5536.121	5258.859
-1.16201	0.09278	0.86058	1437.849	1238.061
1.39683	0.67103	1.39683	46.97512	64.26115
-1.13094	0.42212	0.88422	714.5094	628.417
-1.17877	0.01105	0.84834	7575.064	6360.361
-1.20392	0.47421	0.83062	262.5757	213.849
1.04065	0.67215	1.04065	571.7348	597.9
1.02499	0.75942	1.02499	1313.292	1346.207
1.04813	0.52281	1.04813	4251.373	4430.178
-1.04812	0.49909	0.95409	1663.444	1588.789
-1.09842	0.64313	0.91039	247.3293	229.317
1.12651	0.03154	1.12651	5090.551	5780.612
1.53912	2.93E-18	1.53912	19877.91	30732.71
-1.02114	0.94835	0.97929	171.3449	168.85
1.06955	0.24519	1.06955	3222.051	3431.407
-1.1577	0.00169	0.86378	3394.464	2930.656
-1.09743	0.02862	0.91122	3595.791	3276.628
1.25894	0.02282	1.25894	8462.98	10777.76
-1.10626	0.40169	0.90394	574.051	525.4252
-1.08489	0.27484	0.92175	2515.159	2333.334
-1.07976	0.44193	0.92613	619.7205	573.0211
-1.46576	0.03571	0.68224	382.1873	267.5704
-1.09586	0.18926	0.91253	1278.532	1166.531
-1.09795	0.34016	0.91079	1050.697	968.2233
1.06846	0.43723	1.06846	515.4844	549.7021
-1.03516	0.61956	0.96603	163500.3	156581.9
1.00875	0.94933	1.00875	342.0559	345.0266
-1.21622	0.01832	0.82222	4400.483	3544.088
1.05054	0.39656	1.05054	1643.486	1728.052
-1.11521	0.48554	0.89669	531.4146	481.8434
1.00648	0.97	1.00648	226.7391	227.5914
1.16078	0.84715	1.16078	56.01183	68.89561
1.02893	0.4894	1.02893	6311.807	6494.59
1.07973	0.51871	1.07973	30239.81	33954.41
1.27838	0.0696	1.27838	462.5814	584.6204

-1.04801	0.83084	0.95419	355.148	340.1072
1.0133	0.89442	1.0133	1150.865	1168.717
1.11599	0.41457	1.11599	6610.916	7203.182
1.03268	0.5279	1.03268	2038.312	2103.172
1.23229	0.03871	1.23229	392.1189	485.0211
-1.0957	0.47395	0.91266	926.4268	860.0972
1.15905	0.1402	1.15905	1038.133	1201.629
1.23374	0.0002	1.23374	3356.529	4112.539
-1.05005	0.35857	0.95234	2097.129	1995.018
-1.0341	0.47159	0.96702	2559.399	2476.356
1.17401	0.24352	1.17401	435.8441	502.7908
-1.13679	0.21866	0.87967	7609.086	6462.607
-1.06943	0.70975	0.93507	357.8055	337.2301
-1.28262	0.00061	0.77965	2075.732	1624.425
1.04643	0.28175	1.04643	8548.483	8948.104
-1.04426	0.74687	0.95761	319.5615	308.0915
-1.06753	0.65447	0.93674	519.733	498.0011
1.59188	3.33E-12	1.59188	1584.651	2513.934
-1.02343	0.76725	0.97711	6286.796	6092.668
-1.03953	0.43748	0.96198	1881.328	1811.259
-1.19407	0.20113	0.83747	567.6672	473.4253
-1.24112	0.00027	0.80572	5755.966	4594.58
1.20098	0.02336	1.20098	1509.593	1824.351
-1.16165	0.2342	0.86084	447.9299	389.5497
1.02312	0.74594	1.02312	1674.408	1712.378
-1.01015	0.84847	0.98995	1172.177	1160.26
1.04982	0.84663	1.04982	226.0403	229.0799
2.16315	1.61E-10	2.16315	461.3013	989.4039
1.03566	0.71683	1.03566	1561.916	1611.151
1.04097	0.48189	1.04097	2456.209	2561.979
1.08816	0.56826	1.08816	315.8716	340.705
-1.03583	0.74741	0.96541	390.472	377.8274
-1.00619	0.9263	0.99384	1677.686	1668.054
-1.18717	0.07515	0.84234	10633.23	8703.035
1.06981	0.74075	1.06981	248.461	272.2932
1.16976	0.07068	1.16976	799.33	930.2707
-1.00616	0.97183	0.99388	272.0291	270.2712
1.15255	0.00311	1.15255	3749.349	4327.863
1.02182	0.83654	1.02182	469.2837	478.4086
-1.04385	0.57508	0.95799	9031.536	8487.393
-1.05641	0.50849	0.9466	866.7938	822.5508
-1.33113	0.01933	0.75124	2058.979	1515.151
2.08952	7.26E-14	2.08952	23471.11	50220.21
-1.76741	5.92E-14	0.5658	3776.801	2150.452
-1.04431	0.66764	0.95757	553.0856	529.6237
-1.24844	0.0014	0.801	2622.017	2093.015
1.17595	0.00166	1.17595	2205.667	2591.88
-1.23118	0.33528	0.81223	493.5709	379.7037
-1.24364	0.00199	0.80409	931.1392	748.6847
-1.05762	0.44879	0.94552	887.6528	838.281
1.22276	0.2095	1.22276	250.8514	304.2764
1.01027	0.88835	1.01027	986.2882	999.9358

-1.14295	0.00649	0.87493	4255.214	3713.13
-1.28483	0.0588	0.77831	1481.047	1159.373
1.3216	0.0005	1.3216	1958.816	2611.594
-1.03673	0.65399	0.96457	1657.216	1599.255
-1.2346	0.04001	0.80998	522.6063	425.6335
-1.08682	0.42351	0.92012	560.9229	517.4717
-1.11268	0.34836	0.89873	1870.907	1657.374
-1.00696	0.98613	0.99308	104.8859	104.1782
-1.10598	0.29243	0.90418	907.4198	827.0503
1.05191	0.74552	1.05191	350.7917	368.8367
1	1	1	22.6998	21.74681
-1.03062	0.88651	0.97029	291.8834	286.1361
1.01138	0.87317	1.01138	3485.215	3477.418
-1.00084	0.9902	0.99916	1493.36	1494.189
-1.06633	0.50964	0.93779	3916.894	3593.052
1.07129	0.30728	1.07129	794.6426	849.0539
1.00515	0.94066	1.00515	2186.447	2195.208
1.15622	0.00977	1.15622	1217.844	1408.211
-1.13561	0.07985	0.88059	2379.748	2072.424
-1.24121	0.00436	0.80566	1923.043	1559.073
-1.13688	0.77047	0.8796	130.669	116.2052
-1.16287	0.05537	0.85994	3032.977	2577.398
-1.17322	0.22498	0.85236	1073.813	923.5978
1.27576	0.08651	1.27576	442.2392	560.6522
1.50529	1.20E-06	1.50529	1094.727	1643.614
-1.00963	0.84819	0.99046	3118.083	3091.749
1.13224	0.06759	1.13224	2777.282	3170.904
1.11584	0.46126	1.11584	261.3333	291.4667
-1.07099	0.78527	0.93371	221.4774	207.8733
-1.51135	0.00008	0.66166	4727.66	3052.979
-1.19019	0.02484	0.84021	2293.771	1922.61
1.03709	0.53412	1.03709	2148.997	2229.608
1.01149	0.79183	1.01149	2558.159	2587.575
-1.00654	0.94016	0.99351	803.3097	802.9218
-1.05613	0.75698	0.94685	273.2654	255.3599
1.03647	0.49042	1.03647	6402.34	6654.721
-1.13903	0.71178	0.87794	155.7189	136.3849
-1.09985	0.07735	0.90922	5674.516	5120.997
-1.14239	0.28213	0.87535	635.4443	564.3831
-1.05017	0.24258	0.95223	15776.42	15009.38
-1.43095	1.48E-07	0.69884	1819.606	1270.091
1.11034	0.12901	1.11034	2685.929	2989.204
1.04794	0.28558	1.04794	3127.235	3277.966
1.04629	0.58426	1.04629	1590.255	1661.016
-1.20926	0.01538	0.82695	9798.072	7938.493
1.31063	0.00015	1.31063	13157.27	17086.55
-1.00939	0.892	0.99069	1569.261	1558.586
1.01556	0.94747	1.01556	255.6079	256.5137
1.21543	0.20404	1.21543	262.851	316.3795
-1.18205	0.0244	0.84598	58725.02	50670.32
-1.00537	0.94463	0.99466	915.6942	913.3075
-1.13868	0.76786	0.87821	133.429	116.0998

-1.063	0.46468	0.94074	85862.23	82899.34
1.03962	0.61127	1.03962	29142.62	29750.41
1.03182	0.51411	1.03182	4682.018	4847.059
1.21422	0.00256	1.21422	1076.382	1307.117
1.0203	0.97097	1.0203	81.08298	82.41983
1.00244	0.96568	1.00244	8569.131	8605.089
-1.13669	0.28387	0.87974	1692.797	1472.805
1.1198	0.16958	1.1198	6058.204	6846.972
-1.24805	0.08726	0.80125	811.517	656.1741
-1.32159	0.03149	0.75667	1149.948	877.0399
1.00263	0.96242	1.00263	911.4818	913.2437
-2.05298	2.20E-25	0.4871	3461.438	1698.228
-1.18022	0.08671	0.8473	1901.668	1601.965
1.06637	0.44647	1.06637	1333.794	1421.568
-1.08395	0.56274	0.92255	405.6302	374.2492
-1.07382	0.74105	0.93125	257.9322	247.3083
1.0826	0.36375	1.0826	4980.461	5331.178
-1.02287	0.73891	0.97764	3884.716	3790.709
-1.02102	0.9228	0.97942	235.9813	232.5563
-1.01251	0.90843	0.98765	518.1227	512.1393
-1.06085	0.82819	0.94264	218.9363	208.6865
-1.1987	0.02491	0.83424	1616.086	1346.548
-1.03847	0.62162	0.96296	2492.021	2406.562
-1.07716	0.31752	0.92837	5814.967	5287.314
1.04128	0.67267	1.04128	618.7489	640.2005
-1.17018	0.25909	0.85457	555.2432	483.6756
1.05074	0.43802	1.05074	804.669	845.0376
-1.11114	0.1961	0.89997	4739.84	4333.005
1.05663	0.39144	1.05663	3879.647	4099.152
-1.17304	0.02405	0.85249	36634.75	30608.52
1.04184	0.65412	1.04184	1772.402	1827.763
-1.06002	0.89443	0.94338	131.6802	130.3508
-1.18351	0.38119	0.84494	371.0071	318.0629
-1.08376	0.6527	0.92271	378.6547	346.0378
-1.02579	0.70851	0.97486	1171.39	1147.28
-1.08988	0.42042	0.91754	555.9017	513.5738
1.10154	0.3436	1.10154	1792.971	1989.638
-1.0691	0.56242	0.93536	434.2239	409.3101
-1.00746	0.91882	0.99259	990.1522	986.8914
-1.06151	0.88454	0.94205	114.0281	107.4061
-1.03214	0.59947	0.96886	1544.459	1499.545
1.17317	0.07917	1.17317	846.4032	989.0084
-1.05237	0.52831	0.95023	898.0294	855.5729
1.00483	0.95064	1.00483	4036.608	4032.341
-1.01907	0.82453	0.98129	6689.19	6449.735
-1.16405	0.89883	0.85907	39.64933	33.9987
-1.01306	0.92971	0.98711	518.3355	508.7877
1.05772	0.74573	1.05772	325.1608	344.3756
-1.09139	0.57413	0.91626	479.2875	437.1531
-1.0014	0.99542	0.9986	246.7087	243.0586
-1.11749	0.69851	0.89486	171.2515	152.8727
-1.06264	0.4171	0.94105	2484.652	2349.399

1.62227	4.90E-21	1.62227	2131.702	3453.577
-1.08687	0.31971	0.92008	1317.701	1211.703
-1.12527	0.19095	0.88868	587.6867	524.5175
1.13159	0.1088	1.13159	764.3391	863.2962
1.0547	0.82787	1.0547	227.5689	238.3337
-1.3363	0.00018	0.74833	2654.832	1981.867
1.00501	0.96827	1.00501	1005.001	1006.108
1.48007	0.00001	1.48007	1179.678	1743.416
1.3762	0.00772	1.3762	1488.384	2037.631
1.06745	0.65028	1.06745	298.2642	315.8149
-1.04495	0.53486	0.95698	1036.587	990.3851
1.05871	0.39059	1.05871	705.5454	745.8749
1.13185	0.50908	1.13185	195.133	222.5753
-1.05753	0.96334	0.9456	29.90705	28.60145
1.21781	0.00755	1.21781	1091.302	1330.015
-1.10506	0.27707	0.90493	1380.961	1244.831
-1.07237	0.89261	0.93251	108.7284	100.7376
1.03947	0.40816	1.03947	1812.647	1884.227
-1.04982	0.45395	0.95254	1693.189	1614.067
-1.06585	0.75797	0.93822	289.1089	269.0843
1.01692	0.88277	1.01692	442.2631	446.0974
1.31482	0.00109	1.31482	1123.639	1478.197
-1.05141	0.48708	0.95111	716.5132	681.6641
1.87549	0.60434	1.87549	26.55217	49.81303
1.00533	0.92396	1.00533	817.4382	821.9487
-1.06302	0.49351	0.94072	1723.455	1614.507
1.19436	0.00099	1.19436	2770.953	3304.452
-1.23119	0.08318	0.81222	1000.336	817.0215
-1.07493	0.47566	0.93029	1842.7	1721.745
-1.18968	0.00389	0.84056	3217.724	2695.589
1.01978	0.75672	1.01978	4168.798	4268.955
-1.27292	0.00353	0.7856	4089.135	3186.45
-1.04747	0.50293	0.95468	668.4147	637.9618
1.0054	0.94441	1.0054	1799.944	1816.202
1.02418	0.92557	1.02418	145.8665	150.3569
-1.24778	0.10599	0.80142	1116.809	915.4622
1.14415	0.07825	1.14415	1084.939	1240.852
1.11095	0.64394	1.11095	166.4223	185.1323
1.08435	0.41382	1.08435	4857.082	5379.141
-1.34413	0.1468	0.74397	4097.862	2794.223
-1.02454	0.87161	0.97604	446.3275	444.3226
-1.07229	0.21268	0.93258	2257.032	2105.011
1.39827	8.36E-07	1.39827	9479.713	13128.87
-1.14796	0.56567	0.87111	170.8069	150.1238
1.04479	0.56102	1.04479	1324.732	1387.175
-1.12265	0.69695	0.89075	171.027	151.7821
-1.0441	0.76642	0.95776	402.5978	385.0221
1.05039	0.39863	1.05039	1635.749	1717.652
1.05772	0.71215	1.05772	263.9578	279.8544
-1.05653	0.64112	0.9465	6183.136	5684.148
1.04245	0.59027	1.04245	3197.835	3355.69
1.40948	0.00015	1.40948	683.0469	957.7713

1.05023	0.86964	1.05023	169.1227	178.2374
1.22557	0.00029	1.22557	3421.377	4178.104
-1.232	0.25564	0.81169	340.1916	278.3161
-1.00412	0.92262	0.9959	2509.946	2499.46
-1.07101	0.5989	0.9337	1728.258	1612.407
-1.11313	0.20472	0.89837	747.3947	669.0698
-1.09748	0.93528	0.91118	37.45162	31.49463
1.37494	0.04955	1.37494	459.1008	611.9954
1.1792	0.01165	1.1792	8181.724	9542.591
-1.30927	0.23231	0.76378	225.0233	174.592
1.00324	0.99627	1.00324	77.46663	76.19361
1.32312	2.79E-06	1.32312	1882.958	2497.358
1.12753	0.0143	1.12753	4991.025	5649.54
-1.0638	0.86378	0.94002	183.0381	167.4927
-1.12448	0.67869	0.8893	214.755	189.9752
1.38033	1.23E-06	1.38033	2598.688	3586.35
1.04629	0.67544	1.04629	2691.287	2876.609
-1.0991	0.12242	0.90984	2807.471	2543.317
1.13882	0.23389	1.13882	524.0465	593.3096
1.45998	0.71168	1.45998	35.35136	54.51746
-1.00398	0.97214	0.99603	547.3994	543.3112
-1.00302	0.95662	0.99699	2387.313	2373.258
-1.05528	0.57221	0.94762	767.4926	731.6484
1.48722	9.13E-06	1.48722	6434.928	9432.832
-1.33028	0.00882	0.75172	900.1322	683.4216
-1.02468	0.81002	0.97592	530.7708	515.9675
1.00695	0.9479	1.00695	721.542	725.8451
1.10471	0.33977	1.10471	432.6747	475.5118
1.18041	0.06825	1.18041	695.2931	824.4009
1.04476	0.58116	1.04476	13658.37	14620.8
1.01264	0.92132	1.01264	1849.215	1877.698
-1.01445	0.8035	0.98575	1775.668	1752.196
1.01539	0.95042	1.01539	150.7864	154.2093
-1.06025	0.86825	0.94317	161.322	149.703
-1.04578	0.63973	0.95622	1387.12	1321.608
1.24744	0.05955	1.24744	452.3784	558.4871
1.09162	0.334	1.09162	944.4773	1036.95
1.02294	0.6236	1.02294	1830.638	1872.615
1.1225	0.55648	1.1225	289.6961	325.4794
1.01556	0.7438	1.01556	24046.44	24488.94
1.1543	0.08765	1.1543	903.0903	1039.871
-1.14772	0.63284	0.87129	209.2969	184.295
1.0283	0.79297	1.0283	534.4386	546.4041
1.05789	0.40184	1.05789	2391.426	2528.658
-1.06772	0.64935	0.93658	461.6281	441.1411
-1.1106	0.70203	0.90041	216.8566	194.0552
-1.09667	0.45929	0.91185	943.0584	866.625
-1.2457	0.00009	0.80276	2891.906	2329.22
1.02847	0.84757	1.02847	502.0107	528.6475
-1.06225	0.53102	0.9414	938.9175	890.3809
-1.06653	0.60873	0.93762	501.1023	463.9059
-1.01438	0.81773	0.98583	749.3391	738.7679

1.00277	0.97769	1.00277	706.522	703.7814
-1.05463	0.51431	0.9482	680.0844	643.1561
-1.04266	0.66332	0.95908	1377.606	1320.356
1.10108	0.24667	1.10108	1004.463	1101.138
-1.03988	0.61827	0.96165	6711.939	6359.15
-1.03214	0.71796	0.96886	609.262	592.5176
-1.01221	0.968	0.98794	134.3032	132.9247
-1.3932	0.08993	0.71777	485.8368	364.6999
-1.00121	0.98544	0.99879	2277.565	2256.242
-1.06152	0.4534	0.94205	682.2285	643.0455
-1.09461	0.4502	0.91356	497.7159	459.4339
1.27566	0.00004	1.27566	13699.17	17621.63
-1.04882	0.5469	0.95346	1339.75	1291.301
1.32617	0.03032	1.32617	509.0513	664.0211
1.03498	0.74632	1.03498	3243.127	3319.312
-1.17644	0.02571	0.85003	1355.985	1151.5
-1.23608	0.01173	0.80901	973.1605	790.2571
-1.2815	0.55993	0.78034	134.2137	105.4086
1.23983	0.00033	1.23983	5143.384	6438.562
-1.04283	0.57727	0.95893	4862.229	4742.602
-1.00771	0.90446	0.99235	694.5464	688.8892
1.04822	0.52886	1.04822	1057.842	1105.11
1.21688	0.10123	1.21688	721.7625	887.6222
1.09093	0.79021	1.09093	128.2647	139.0425
-1.00256	0.96533	0.99745	1547.147	1543.187
1.05546	0.43518	1.05546	4968.675	5266.298
1.02285	0.69596	1.02285	1418.201	1448.569
1.01334	0.8802	1.01334	933.3003	948.7416
1.00271	0.94903	1.00271	5334.999	5349.654
-1.10929	0.043	0.90148	4785.237	4307.378
-1.01876	0.87909	0.98159	1457.887	1416.172
-1.04392	0.546	0.95793	1049.196	1001.81
-1.20774	0.22301	0.828	340.9604	282.8252
1.40516	0.08177	1.40516	279.2551	393.5115
1.11723	0.28907	1.11723	880.6177	976.4768
1.05229	0.55523	1.05229	2611.78	2716.911
1.09707	0.20028	1.09707	1039.475	1144.061
1.12735	0.02058	1.12735	4260.765	4827.185
-1.05725	0.56868	0.94585	633.6974	595.0299
1.05273	0.33807	1.05273	2255.268	2373.67
1.0754	0.59706	1.0754	586.0406	627.8953
1.09104	0.58489	1.09104	553.817	589.0168
1.52857	0.00003	1.52857	313.7031	479.3183
1.45388	0.00055	1.45388	773.3803	1133.259
1.01629	0.89266	1.01629	5137.589	5301.154
1.04468	0.49895	1.04468	1834.547	1913.915
1.06414	0.6084	1.06414	450.2871	473.9815
-1.01934	0.9291	0.98103	295.4851	278.5461
1.09458	0.24463	1.09458	621.3729	680.74
-1.03621	0.48804	0.96506	1916.003	1850.791
1.14609	0.1869	1.14609	836.8591	951.2406
-1.03889	0.59843	0.96256	788.5369	760.6495

1.10666	0.24581	1.10666	698.6345	778.4687
1.07086	0.43813	1.07086	5724.595	6222.381
1.02877	0.58985	1.02877	7237.013	7448.125
1.00446	0.97085	1.00446	1697.698	1671.059
-1.00879	0.94174	0.99129	1483.551	1456.039
1.03602	0.68421	1.03602	1358.708	1414.977
-1.09959	0.23078	0.90943	837.6344	763.6784
-1.00549	0.94889	0.99454	1877.924	1871.07
-1.02632	0.65662	0.97435	3398.93	3310.636
1.00385	0.98218	1.00385	258.9948	259.4591
-1.13231	0.89163	0.88315	54.22557	49.75075
2.03629	1.74E-29	2.03629	10691.39	22010.35
-1.22393	0.06755	0.81704	10446.61	8206.938
1.12218	0.48169	1.12218	275.168	312.3991
1.10926	0.14477	1.10926	1106.927	1220.555
1.01935	0.89984	1.01935	314.0308	320.178
1.35126	0.03531	1.35126	907.5342	1221.062
1.01707	0.69467	1.01707	3400.897	3458.283
-1.1455	0.02066	0.87298	5323.718	4609.475
-1.25652	0.01836	0.79585	3120.409	2450.413
1.07357	0.91226	1.07357	70.77695	78.42543
1.04563	0.71243	1.04563	1504.337	1578.837
-1.29645	0.27487	0.77134	188.2971	146.2466
-1.04271	0.49439	0.95904	4012.841	3844.288
-1.04024	0.87705	0.96131	251.295	237.2533
1.01338	0.869	1.01338	2832.709	2886.645
1.10223	0.12862	1.10223	4653.973	5160.985
-1.02912	0.53159	0.97171	1701.563	1652.766
-1.01162	0.86394	0.98852	741.3458	733.5494
1.02042	0.81173	1.02042	839.4519	852.6331
1.17251	0.83933	1.17251	64.33694	66.24418
-1.04453	0.60042	0.95737	1198.231	1155.63
1.0803	0.2139	1.0803	8044.397	8806.226
1.00502	0.93238	1.00502	1963.579	1977.356
-1.02309	0.86289	0.97743	467.5525	462.3142
-1.0288	0.81768	0.972	460.3826	447.7561
1.03761	0.95004	1.03761	84.40956	89.16171
-1.04588	0.87604	0.95613	223.2987	221.9822
-1.00587	0.98522	0.99417	189.352	194.3114
1.26481	0.00411	1.26481	790.6105	997.5682
-1.19056	0.30104	0.83994	563.4618	485.6648
-1.99331	0.00075	0.50168	2082.675	996.0256
1.34873	0.00022	1.34873	1520.452	2058.683
1.05809	0.45839	1.05809	1560.337	1660.114
1.01394	0.92689	1.01394	415.6798	412.6816
-1.0849	0.341	0.92175	583.533	538.1213
-1.2481	0.06092	0.80122	566.0862	456.7573
1.06622	0.66411	1.06622	418.0729	454.7316
1.05697	0.62427	1.05697	871.2824	926.0762
1.09342	0.4144	1.09342	442.5351	480.2488
-1.05094	0.91168	0.95153	124.1349	110.3416
1.01735	0.88074	1.01735	2324.702	2311.759

1.02422	0.64193	1.02422	2097.349	2145.938
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1.2271	0.01473	1.2271	6582.219	7985.16
1.02896	0.79561	1.02896	4892.942	4931.288
-1.30069	0.01157	0.76882	4089.04	3075.786
-1.11065	0.16504	0.90038	35337.36	31310.73
1.04615	0.53861	1.04615	2078.044	2173.457
-1.07172	0.45624	0.93308	1016.371	949.9377
1.19226	0.11364	1.19226	4040.581	4802.837
-1.17509	0.08075	0.851	3866.032	3248.607
-1.00638	0.89808	0.99366	1788.703	1780.343
1.05607	0.32316	1.05607	1739.859	1836.004
1.2686	0.01399	1.2686	331.3172	420.3524
-1.27307	0.00017	0.7855	7897.768	6129.231
-1.03505	0.84548	0.96614	317.7482	307.9189
1.03712	0.46829	1.03712	2825.674	2917.713
1.12162	0.32618	1.12162	669.3507	760.3622
1.05276	0.60253	1.05276	675.2761	716.5663
-1.0142	0.86058	0.986	610.4734	603.2135
1.0191	0.88274	1.0191	342.9947	350.4142
1.03596	0.71679	1.03596	2438.945	2509.708
-1.07382	0.37799	0.93126	657.7217	613.6161
1.02782	0.81762	1.02782	450.7063	458.5831
-1.07833	0.12106	0.92736	2451.565	2271.413
1.00197	0.97668	1.00197	4373.088	4399.726
1.03532	0.66817	1.03532	30056.75	30679.88
1.0233	0.64591	1.0233	1461.975	1495.406
-1.05487	0.5604	0.94798	3788.109	3689.119
-1.14402	0.13384	0.87411	1252.833	1095.629
1.02889	0.94425	1.02889	85.11285	87.18494
-1.02636	0.78383	0.97432	861.6107	831.4325
-1.15257	0.01909	0.86763	3428.757	2958.963
-1.08235	0.46888	0.92392	731.3204	669.1706
-1.06353	0.69787	0.94027	356.4796	335.2428
1.02581	0.87349	1.02581	373.3179	381.2897
1.02131	0.9508	1.02131	160.6891	163.1404
1.79169	1.78E-10	1.79169	584.8866	1041.398
-1.33921	0.14264	0.74671	409.3305	323.235
1.16271	0.03717	1.16271	2218.61	2572.693
1.33577	0.16058	1.33577	210.4977	275.6397
1.01581	0.81406	1.01581	815.9534	830.1799
1.29561	0.01452	1.29561	7910.6	10405.96
-1.53167	3.09E-07	0.65288	4057.049	2621.088
-1.02283	0.76469	0.97768	606.004	591.1036
1.02319	0.81848	1.02319	434.8195	446.4468
1.36448	0.11322	1.36448	312.745	425.5646
-1.00771	0.92311	0.99234	923.0994	919.408
-1.08428	0.52036	0.92227	506.4826	471.1275
1.11543	0.44852	1.11543	328.908	370.6589
-1.36216	0.00041	0.73413	1013.826	747.5461
1.01874	0.91751	1.01874	191.3815	194.3714
1.13675	0.09996	1.13675	2428.563	2746.8

1.05706	0.47013	1.05706	1057.224	1114.214
-1.20696	0.19894	0.82853	502.0358	417.0324
-1.60381	2.44E-18	0.62351	24583.28	15205.51
-1.20234	0.06648	0.83171	972.2039	813.6527
1.11329	0.17316	1.11329	2318.31	2589.494
1.09627	0.84623	1.09627	86.98431	95.41571
-1.12243	0.44098	0.89093	493.2446	439.0633
1.03058	0.96039	1.03058	87.08495	90.17416
-1.27762	5.99E-06	0.78271	10078.56	7946.508
-1.00301	0.96801	0.997	1117.331	1106.383
1.02608	0.6537	1.02608	3238.547	3329.795
1.00116	0.99557	1.00116	312.1321	307.0801
1.03335	0.67292	1.03335	2080.673	2132.481
-1.01791	0.82356	0.9824	509.0058	500.6674
1.14835	0.22133	1.14835	441.7428	511.4035
-1.07068	0.79977	0.93399	199.6197	187.7552
-1.18016	0.23019	0.84734	829.4574	714.0335
1.00438	0.97926	1.00438	205.1072	206.0499
-1.01528	0.85907	0.98495	633.8481	621.4995
-1.09377	0.61579	0.91427	274.9971	247.9023
1.14396	0.26612	1.14396	851.0756	983.3779
1.18208	0.73161	1.18208	85.67484	98.66924
1.0254	0.90823	1.0254	237.167	242.1895
1.3604	0.49178	1.3604	85.51025	110.5915
-1.01904	0.94706	0.98132	193.7186	188.1528
1.02994	0.7508	1.02994	582.5855	600.9005
-1.71497	8.24E-33	0.5831	69217.94	40315.13
-1.04642	0.43032	0.95564	6137.04	5806.765
1.06983	0.66032	1.06983	249.7847	267.9916
-1.09841	0.13662	0.9104	5288.599	4788.182
-1.09343	0.26767	0.91455	1340.516	1228.985
1.13283	0.87673	1.13283	47.65244	52.15171
1.06339	0.54185	1.06339	1277.955	1357.311
-1.05963	0.29916	0.94373	1489.13	1409.241
-1.01686	0.85588	0.98342	1774.891	1750.781
-1.01559	0.80256	0.98464	1295.672	1273.332
-1.58187	3.74E-08	0.63216	2005.408	1256.85
-1.05899	0.52626	0.94429	1843.54	1758.47
1.00657	0.95353	1.00657	385.4302	387.8516
1.31009	0.00604	1.31009	704.8539	918.4768
1.29072	0.0114	1.29072	526.6437	674.91
-1.23114	0.34661	0.81226	315.2872	271.4808
1.03502	0.69458	1.03502	1687.87	1747.653
-1.68811	2.00E-07	0.59238	10379.01	5974.294
1.56402	0.00037	1.56402	832.528	1294.641
1.0823	0.37424	1.0823	638.0175	687.1189
-1.01547	0.87908	0.98477	3617.498	3645.289
-1.13787	0.03533	0.87883	1914.879	1684.449
1.01962	0.81404	1.01962	792.4961	803.4113
-1.08134	0.27185	0.92478	770.1925	712.8449
-1.0093	0.9343	0.99079	446.1991	445.4113
1.23894	0.02627	1.23894	374.85	465.762

1.01619	0.84746	1.01619	2003.358	2019.686
1.00245	0.97772	1.00245	1978.568	1982.845
1.17143	0.04648	1.17143	874.9916	1023.21
-1.32295	0.06659	0.75589	751.3419	579.3215
-1.07624	0.85227	0.92916	139.5951	129.4279
-1.07184	0.24655	0.93298	13991.88	12949.95
1.07187	0.83669	1.07187	151.9404	162.4035
-1.03676	0.82917	0.96454	282.2848	272.4307
-1.09329	0.21374	0.91467	1311.131	1200.03
-1.32964	0.07412	0.75209	508.9102	390.1752
-1.25434	0.01658	0.79723	10070.24	7862.458
-1.05086	0.64812	0.9516	490.4954	470.0336
-1.17925	0.11213	0.848	548.9483	463.5567
-1.12999	0.17073	0.88496	660.0794	586.9531
-1.18902	0.63709	0.84103	163.6883	138.9224
1.18686	0.00871	1.18686	7022.48	8238.421
-2.51645	1.37E-09	0.39738	5309.001	2031.959
1.03988	0.44919	1.03988	3098.661	3222.415
1.16645	0.13834	1.16645	2334.616	2792.922
1.02621	0.7911	1.02621	635.7357	647.1273
1.12202	0.82634	1.12202	87.39331	93.69704
1.22724	0.00033	1.22724	4022.869	4946.243
1.00439	0.9486	1.00439	2730.751	2711.838
-1.01854	0.72712	0.98179	3519.184	3451.805
1.00902	0.83343	1.00902	4426.676	4466.642
1.00507	0.93357	1.00507	8298.012	8420.247
-1.02506	0.84685	0.97555	369.9421	357.9202
3.23643	6.50E-28	3.23643	1072.026	3575.58
1.09383	0.74011	1.09383	180.1874	197.8508
1.61583	1.18E-12	1.61583	949.4808	1548.42
1.00259	0.96282	1.00259	1478.464	1482.479
1.02	0.7686	1.02	9604.332	9812.129
-1.01816	0.83546	0.98217	792.7129	782.3201
1.02767	0.81919	1.02767	366.3861	374.6185
-1.09494	0.40682	0.91329	3048.247	2741.805
-1.12636	0.14549	0.88781	960.3362	850.7189
1.02577	0.77921	1.02577	2967.838	2996.642
1.13198	0.09762	1.13198	15146.18	17546.15
-1.00291	0.95067	0.9971	1546.717	1542.924
1.00948	0.8911	1.00948	8604.592	8552.94
1.05241	0.68182	1.05241	350.1342	370.6051
-1.03	0.62258	0.97088	3734.367	3638.161
1.01122	0.86368	1.01122	1502.188	1516.511
1.09788	0.68418	1.09788	204.6852	225.7026
-1.02696	0.53531	0.97375	3904.154	3801.668
-1.17519	0.08237	0.85093	895.8088	766.6694
1.00867	0.9261	1.00867	1176.267	1186.002
-1.00981	0.95417	0.99028	336.1144	333.4253
-1.09158	0.9206	0.9161	55.27522	52.43266
-1.26063	0.00077	0.79325	2222.473	1762.564
-1.33509	0.0012	0.74901	1134.669	853.3439
1.045	0.77061	1.045	510.9163	520.6271

-1.05542	0.43489	0.94749	17153.12	16583.11
-1.20508	0.01179	0.82982	4054.351	3322.39
-1.0482	0.55113	0.95402	1046.185	1001.359
1.09856	0.14261	1.09856	5718.765	6350.93
-1.01519	0.73514	0.98503	2793.919	2751.773
-1.01042	0.86265	0.98969	1485.46	1468.379
-1.01385	0.83419	0.98634	811.3202	800.2006
1.22758	0.01249	1.22758	723.2223	893.3669
-1.09057	0.1813	0.91695	2723.585	2495.475
1.03985	0.70497	1.03985	540.3148	557.6413
-1.4138	0.02583	0.70731	1430.184	1002.614
-2.17925	2.01E-10	0.45887	6238.609	2737.975
1.25046	0.00003	1.25046	4173.767	5240.917
-1.16937	0.26135	0.85516	269.0701	230.1321
1.24665	2.79E-06	1.24665	16799.25	21033.54
1.15933	0.21284	1.15933	502.3035	575.7138
1.11303	0.62489	1.11303	210.7537	234.2059
1.15272	0.17786	1.15272	704.8342	805.7349
-1.02735	0.72336	0.97338	1666.211	1624.18
1.05166	0.30234	1.05166	6711.819	7075.979
1.05416	0.53251	1.05416	5310.004	5710.219
-1.01205	0.94227	0.9881	334.0104	329.2302
-1.22337	0.0259	0.81741	931.3129	763.8277
1.00321	0.97988	1.00321	572.595	583.7844
-1.06845	0.29089	0.93593	1736.703	1622.76
1.02033	0.94191	1.02033	135.8672	137.5143
-1.05431	0.73102	0.94849	489.4587	477.2621
-1.2359	0.0026	0.80913	6343.356	5085.152
-1.01843	0.89473	0.9819	495.6008	483.6009
-1.23543	0.00275	0.80944	3646.632	2923.994
1.04948	0.47027	1.04948	959.5638	1005.977
1.03915	0.7057	1.03915	3155.191	3251.174
1.35416	0.20338	1.35416	153.8449	206.0867
-1.05154	0.50764	0.95099	1860.241	1794.598
1.01009	0.91519	1.01009	624.8223	634.9288
1.02894	0.75046	1.02894	1171.862	1207.799
1.06754	0.41593	1.06754	5290.3	5740.966
1.0165	0.75656	1.0165	3605.969	3672.827
1.03947	0.70043	1.03947	521.1588	540.9518
1.0753	0.32571	1.0753	644.075	691.3224
-1.01414	0.83224	0.98606	2060.072	2037.048
-1.6661	0.01465	0.6002	1020.254	621.7911
1.02571	0.92507	1.02571	240.8728	251.2233
1.76016	5.65E-12	1.76016	17676.41	30384.38
-1.00386	0.94399	0.99615	1048.389	1044.193
-1.27241	0.14474	0.78591	415.105	332.592
1.32371	0.00004	1.32371	2101.161	2757.172
1.30927	2.61E-06	1.30927	7736.901	10222.65
1.06122	0.5183	1.06122	535.2341	569.3644
-1.04771	0.49191	0.95446	738.717	706.048
-2.87993	6.05E-22	0.34723	10571.16	3542.761
1.04444	0.74978	1.04444	367.0759	381.7203

-1.05715	0.50262	0.94594	2892.142	2704.383
1.05278	0.48519	1.05278	841.3696	887.4033
1.01456	0.93619	1.01456	260.0527	263.811
1.00439	0.9259	1.00439	2207.244	2216.198
-1.05825	0.72964	0.94496	463.9775	452.7613
-1.03133	0.84083	0.96962	256.7321	249.4755
-1.07013	0.22405	0.93447	1393.186	1301.083
-1.05983	0.39211	0.94354	2123.759	2029.612
-1.06263	0.66098	0.94106	347.9626	330.5042
-1.03628	0.48963	0.96499	2616.466	2525.065
1.16018	0.20874	1.16018	8910.058	10793.17
1.09174	0.28929	1.09174	851.8763	935.9429
-1.11646	0.43392	0.89569	273.3265	243.9326
1.0713	0.49628	1.0713	616.1473	654.3889
-1.02028	0.90208	0.98013	350.4529	342.3618
1.01979	0.88677	1.01979	430.5579	441.4819
1.11352	0.04711	1.11352	1924.004	2146.319
-1.07682	0.72139	0.92866	297.9869	276.3636
1.16147	0.08275	1.16147	12924.63	15251.38
-1.09721	0.33835	0.91141	950.3328	872.7341
1.06027	0.49067	1.06027	477.7571	507.378
-1.11048	0.32535	0.90051	553.6745	502.8861
-1.01395	0.86632	0.98624	1257.053	1238.415
-1.08242	0.40801	0.92385	1123.687	1045.123
1.34537	0.00071	1.34537	1216.524	1640.544
-1.46777	0.00658	0.6813	726.5994	503.2618
1.01443	0.98471	1.01443	63.59892	74.41286
1.01117	0.85796	1.01117	2075.923	2094.799
-1.01452	0.84292	0.98569	1163.656	1148.655
1.09663	0.55085	1.09663	267.5512	291.7272
-1.04524	0.62099	0.95672	630.1037	603.0753
1.22387	0.06951	1.22387	710.0449	864.0877
1.53094	2.11E-09	1.53094	3712.468	5642.313
1.57729	3.09E-08	1.57729	1014.04	1605.258
1.16476	0.00026	1.16476	12070.5	14049.79
-1.01283	0.93652	0.98733	354.1411	350.6967
1.11229	0.12655	1.11229	1117.494	1242.497
-1.20245	0.04213	0.83164	880.3096	736.7431
-1.02585	0.91309	0.9748	259.0673	250.8534
-1.01758	0.87204	0.98272	633.4159	619.5799
1.34275	6.08E-08	1.34275	957.6763	1286.095
1.02288	0.7353	1.02288	1139.51	1163.241
-1.10728	0.5629	0.90312	369.1027	333.668
1.06251	0.48001	1.06251	602.7766	638.4011
1.19827	0.02051	1.19827	1837.941	2203.924
1.16673	0.79655	1.16673	68.32547	79.15576
-1.08973	0.47027	0.91766	604.9965	555.1014
-1.06222	0.85379	0.94142	184.834	169.7918
1.52628	1.93E-11	1.52628	4855.193	7362.261
1.05855	0.49546	1.05855	682.0957	718.8092
1.00911	0.87485	1.00911	19741.07	19703.63
1.50466	2.41E-17	1.50466	2660.175	3996.447

1.13331	0.26734	1.13331	1995.137	2241.375
-1.01154	0.88947	0.98859	1761.015	1739.993
1.10144	0.33563	1.10144	487.7781	535.0628
-1.07764	0.21719	0.92796	4836.588	4424.605
1.08208	0.35225	1.08208	3635.82	3966.754
1.09345	0.69338	1.09345	209.829	231.4698
1.20539	0.11707	1.20539	2897.471	3393.257
1.03951	0.64215	1.03951	8081.959	8224.255
-1.12865	0.60229	0.88602	255.2634	225.4141
1.00336	0.95814	1.00336	2434.189	2425.542
-1.03669	0.74301	0.96461	1488.076	1447.828
1.13111	0.39644	1.13111	852.2993	950.6375
1.09053	0.23398	1.09053	1487.505	1625.789
1.02652	0.83975	1.02652	307.2936	315.4488
1.2426	0.20752	1.2426	317.1691	395.3694
-1.00271	0.95042	0.9973	5645.546	5629.607
1.02899	0.71707	1.02899	861.642	891.6521
-1.06503	0.32395	0.93894	2296.391	2144.987
-1.02143	0.68799	0.97902	1966.059	1924.136
-1.06865	0.81954	0.93576	181.5448	171.0653
1.04616	0.57987	1.04616	1109.844	1161.512
-1.24361	0.01022	0.80411	4037.432	3264.218
-1.04577	0.72056	0.95623	355.8547	341.3637
2.33541	2.74E-07	2.33541	3608.858	9079.375
-1.082	0.36469	0.92422	488.872	452.5902
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1.12677	0.49646	1.12677	181.1961	203.8471
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1.05669	0.34163	1.05669	1562.61	1649.521
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-1.84711	5.23E-09	0.54138	1332.171	722.2329
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-1.83854	6.11E-12	0.54391	2455.736	1325.734
-1.02186	0.86802	0.97861	594.0873	580.8394
-1.04245	0.92481	0.95927	132.8152	132.6486
1.02688	0.81283	1.02688	569.4475	580.0372
-1.00714	0.96108	0.99291	321.5786	319.2262
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1.00702	0.90541	1.00702	1788.57	1801.48
1.318	0.02559	1.318	526.0032	688.9025
-1.07544	0.51918	0.92985	495.6323	461.4181
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-1.15023	0.09759	0.86939	787.48	686.218
-1.03163	0.55091	0.96934	2822.53	2726.946
1.52841	0.00006	1.52841	11232.66	16685.99
-1.02175	0.63906	0.97871	2071.257	2028.122
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1.06593	0.4781	1.06593	460.1329	490.4507

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-1.06365	0.57665	0.94016	384.2992	361.0716
1.02739	0.65026	1.02739	1867.557	1919.485
-1.1001	0.12105	0.90901	4370.305	4000.602
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-1.08139	0.15403	0.92474	1047.767	968.9382
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1.02228	0.73939	1.02228	1092.184	1116.351
1.09372	0.67378	1.09372	239.1401	257.3566
-1.03143	0.66814	0.96953	1599.458	1556.67
-1.12203	0.18819	0.89124	550.4288	492.4252
-1.27241	0.00804	0.78591	1740.352	1367.175
1.16315	0.41148	1.16315	320.3928	368.3875
1.00911	0.9279	1.00911	825.5842	840.1234
1.11247	0.62326	1.11247	229.8833	252.1787
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1.09695	0.47199	1.09695	2071.395	2322.474
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-1.06234	0.87971	0.94132	139.3251	133.0152
1.2154	0.45517	1.2154	153.072	186.4742
1.18523	0.02688	1.18523	977.8779	1157.016
-1.15071	0.04487	0.86903	1285.291	1117.625
-1.0617	0.27114	0.94189	2163.211	2041.438
-1.04845	0.27909	0.95379	3874.273	3696.525
-1.00618	0.99052	0.99386	94.62008	100.5569
-1.74579	0.065	0.57281	353.8373	217.8452
-1.01425	0.94435	0.98595	233.287	230.1906
-1.04609	0.73859	0.95594	433.5916	409.3414
-1.04024	0.91561	0.96131	132.045	126.3563
1.10093	0.03745	1.10093	2955.374	3256.136
1.04489	0.49233	1.04489	630.4552	658.4923
-1.01904	0.8857	0.98132	1103.513	1088.665
1.0792	0.3734	1.0792	2004.787	2145.436
-1.08038	0.58763	0.9256	369.2101	345.9764
-1.03132	0.69436	0.96963	1093.128	1062.896
1.13833	0.09576	1.13833	27748.29	30915.73
1.14369	0.02668	1.14369	3322.752	3831.54
1.06218	0.83696	1.06218	182.5549	195.9868
-1.08358	0.22817	0.92287	1695.006	1561.147
-1.02905	0.75153	0.97177	1158.917	1127.694
1.34799	0.00266	1.34799	125594.2	174393
1.16421	0.30504	1.16421	4031.856	4683.258
1.06624	0.30516	1.06624	7676.771	8127.403
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1.03794	0.50197	1.03794	6609.742	6863.257
1.14578	0.05514	1.14578	749.0851	856.4639
1.02943	0.80046	1.02943	583.729	608.2606
-1.05221	0.56933	0.95038	886.6053	847.686

-1.50164	2.21E-18	0.66594	28193.97	18821.07
-1.05126	0.69079	0.95124	532.4332	505.6434
1.29878	0.00007	1.29878	1233.514	1601.406
-1.02214	0.84731	0.97834	376.1072	369.2227
1.05517	0.40514	1.05517	1048.643	1106.793
-1.09423	0.28854	0.91389	903.4716	828.729
1.21819	0.13256	1.21819	293.1412	357.1083
-1.03206	0.55114	0.96894	4630.471	4477.118
1.39499	0.47256	1.39499	136.1435	208.5909
1.22096	0.00447	1.22096	3820.049	4585.653
1.0046	0.93677	1.0046	1265.515	1272.284
1.20346	0.65143	1.20346	93.88235	112.8508
-1.18747	0.01245	0.84213	3019.078	2513.898
1.09666	0.78908	1.09666	133.7178	143.3767
-1.0554	0.85732	0.94751	198.3654	182.9078
1.0259	0.78903	1.0259	8983.607	9336.165
-1.00628	0.96024	0.99376	528.9542	532.312
1.06768	0.44685	1.06768	6644.649	6981.024
1.06607	0.52787	1.06607	440.2805	468.2099
-1.07218	0.2548	0.93268	14379.47	13256.6
-1.00676	0.96293	0.99328	390.1753	387.9938
-1.1034	0.22423	0.90629	1623.565	1488.46
1.01201	0.82293	1.01201	1050.285	1063.189
-1.03498	0.65666	0.9662	3968.427	3866.152
1.03059	0.77929	1.03059	619.5635	643.0676
-1.01706	0.95829	0.98323	171.6507	160.8813
1.01488	0.789	1.01488	1278.883	1297.34
1.02871	0.74385	1.02871	608.7952	629.26
-1.0039	0.95466	0.99611	1202.386	1200.197
-1.14876	0.09463	0.87051	4336.471	3735.102
-1.02414	0.95642	0.97643	121.5021	118.6351
1.08352	0.25113	1.08352	8366.872	9105.772
1.02499	0.74546	1.02499	3559.989	3609.817
-1.10047	0.25429	0.9087	539.1103	488.5331
-1.10412	0.43347	0.9057	545.0584	493.6245
-1.03805	0.79382	0.96335	297.8296	287.2281
1.23615	0.01328	1.23615	1537.309	1906.203
-1.10228	0.30388	0.90721	1136.722	1033.531
-1.11741	0.02224	0.89493	11631.33	10451.35
-1.00514	0.94231	0.99489	912.2977	905.8856
1.04003	0.66388	1.04003	786.8775	824.6456
-1.29698	0.00466	0.77102	3979.06	3013.158
1.0897	0.74987	1.0897	228.9934	257.7882
-1.00349	0.97736	0.99652	426.5165	425.0983
1.20229	0.00534	1.20229	42989.62	52237.6
1.08572	0.34401	1.08572	767.4661	828.9222
1.05058	0.55958	1.05058	1303.898	1367.021
1.09356	0.58846	1.09356	252.1812	273.1238
1.06325	0.38112	1.06325	1742.863	1851.888
1.23778	0.01058	1.23778	1058.08	1311.654
1.0982	0.51725	1.0982	470.8148	505.7612
1.03215	0.61771	1.03215	9192.208	9524.576

-1.05924	0.50225	0.94407	576.8226	544.5856
1.00604	0.94463	1.00604	1000.569	1010.564
1.06969	0.50574	1.06969	1157.318	1236.987
-1.01689	0.81179	0.98339	644.02	632.8235
1.09473	0.26911	1.09473	584.9149	639.2864
-1.01984	0.84866	0.98054	979.4264	964.1953
-1.10467	0.32437	0.90525	597.6063	544.7169
-1.02582	0.7789	0.97483	754.9497	741.04
1.37919	0.37887	1.37919	152.7753	211.1803
-1.08786	0.11226	0.91924	1395.797	1285.108
-1.00525	0.94481	0.99478	1283.755	1272.512
-1.05509	0.88258	0.94778	174.7827	173.5337
1.19982	0.04179	1.19982	582.6217	700.0258
-1.10641	0.41814	0.90382	583.9978	526.9904
-1.11023	0.39443	0.90072	293.476	264.0967
-1.2061	0.06827	0.82912	2198.337	1783.547
1.02883	0.98594	1.02883	24.37716	25.51954
-1.1014	0.60058	0.90793	425.4802	378.8967
1.10352	0.33064	1.10352	588.739	653.8618
-1.0635	0.49478	0.94029	1244.08	1185.284
1.00197	0.97888	1.00197	800.905	805.2013
1.03474	0.49223	1.03474	6249.167	6444.52
1.01283	0.82166	1.01283	2829.314	2866.792
1.00046	0.99363	1.00046	2312.379	2319.912
-1.04788	0.5702	0.95431	799.7515	765.57
-1.17054	0.00791	0.85431	13595.63	11545.79
-1.00748	0.88709	0.99258	1628.21	1617.284
-1.10524	0.27862	0.90478	1161.209	1056.12
1.04512	0.75501	1.04512	328.5674	340.5268
1.25471	0.29448	1.25471	181.3686	230.5431
1.05738	0.72616	1.05738	367.0556	396.9559
-1.00595	0.90545	0.99409	1935.164	1919.716
-1.01663	0.76884	0.98365	2862.561	2820.643
-1.04594	0.58772	0.95607	2300.059	2230.021
-1.16149	0.07637	0.86096	2918.697	2543.052
-1.00443	0.92563	0.99559	3600.01	3584.167
1.19831	0.04438	1.19831	7894.414	9611.306
-1.23348	0.00573	0.81072	1305.104	1059.167
-1.1527	0.19685	0.86753	2377.545	2012.13
1.1343	0.24375	1.1343	1399.839	1597.468
-1.06359	0.35111	0.94021	1723.634	1625.853
1.02908	0.73817	1.02908	995.0566	1015.078
-1.05076	0.75056	0.95169	462.0187	436.3341
1.03561	0.76345	1.03561	2864.475	3075.74
-1.0763	0.934	0.92911	61.93198	56.39017
1.43028	0.00002	1.43028	2126.528	3094.509
1.00887	0.93202	1.00887	829.7683	832.562
1.00134	0.9762	1.00134	7713.635	7731.359
1.59312	0.35746	1.59312	74.32539	117.7152
-1.01117	0.92214	0.98895	568.442	568.4622
1.02937	0.71391	1.02937	1279.421	1331.25
-1.11219	0.11205	0.89913	20325.98	18440.87

-1.46382	0.00614	0.68314	597.7969	403.5418
1.02517	0.77257	1.02517	788.9153	813.0245
1.18088	0.69412	1.18088	111.7369	126.0474
1.03576	0.92219	1.03576	124.2607	128.3912
1.0889	0.65821	1.0889	223.5085	240.1
-1.04346	0.51468	0.95835	968.2379	928.0522
1.15414	0.04284	1.15414	1012.164	1169.354
1.64626	3.10E-11	1.64626	2050.36	3348.181
-1.14367	0.134	0.87438	1552.043	1366.124
-1.07879	0.5272	0.92697	462.4326	428.6231
-1.25519	0.05745	0.79669	508.2173	408.4759
-1.02887	0.79472	0.97194	459.6511	449.4888
-1.17912	0.01239	0.84809	1805.058	1529.779
1.10876	0.10356	1.10876	4752.138	5221.642
1.22861	0.02261	1.22861	554.9604	685.2365
1.13476	0.22423	1.13476	582.3516	660.3093
1.00771	0.98197	1.00771	144.062	145.9302
1.40183	0.02394	1.40183	383.3742	550.0592
-1.01129	0.88135	0.98884	606.0897	599.605
-1.08901	0.671	0.91827	332.0719	309.2594
-1.5351	0.00232	0.65142	853.7798	564.9214
1.00524	0.94252	1.00524	608.846	611.6094
1.02202	0.80492	1.02202	823.2253	835.4924
-1.0003	0.998	0.9997	1394.193	1393.078
-1.03084	0.51457	0.97009	2968.047	2879.118
1.01659	0.79036	1.01659	5348.497	5424.516
1.26897	0.0014	1.26897	2230.534	2813.662
-1.14806	0.2973	0.87103	8288.767	6815.886
-1.01522	0.89357	0.98501	1126.371	1110.875
-1.00832	0.97257	0.99175	211.892	212.8994
1.13598	0.50334	1.13598	214.0559	245.0865
-1.00685	0.90896	0.9932	1171.914	1162.721
1.02426	0.82807	1.02426	448.6968	459.6867
1.02334	0.8913	1.02334	513.707	527.02
1.18697	0.54837	1.18697	128.4852	153.0378
-1.85155	4.47E-07	0.54009	3825.007	1984.005
1.45507	0.00055	1.45507	56552.02	86501.05
1.22398	0.55102	1.22398	210.0555	276.2046
-1.01115	0.78845	0.98897	4333.305	4285.608
1.09663	0.04843	1.09663	2384.16	2613.12
1.09586	0.50707	1.09586	503.6492	562.9536
1.23983	0.00215	1.23983	2547.87	3171.353
-1.18398	0.2598	0.84461	379.4325	325.1001
-1.04366	0.54751	0.95817	1531.803	1476.221
-1.09667	0.81714	0.91185	154.0843	135.413
1.20062	0.01448	1.20062	6211.661	7432.758
-1.00585	0.96075	0.99418	2753.263	2737.249
1.08825	0.34734	1.08825	564.3614	613.3722
-1.04672	0.64598	0.95536	8582.29	8304.188
1.05003	0.5277	1.05003	3197.934	3321.042
-1.17117	0.86116	0.85385	62.39083	53.67199
-1.17063	0.01863	0.85424	1789.93	1534.181

1.26126	0.00117	1.26126	2068.499	2622.155
-1.03187	0.62992	0.96912	849.5007	823.8284
-1.01926	0.73834	0.98111	1301.445	1277.224
1.00955	0.95791	1.00955	293.3522	297.0671
1.59666	0.02557	1.59666	248.4615	385.4981
-1.0509	0.61479	0.95156	805.593	772.9078
1.20965	0.0012	1.20965	24536.21	29960.68
-1.25746	0.00026	0.79526	2827.531	2235.062
1.20095	0.26168	1.20095	292.0501	345.6269
-1.18751	0.61911	0.8421	130.4229	112.1497
-1.08969	0.23509	0.91769	8173.593	7448.385
1.16628	0.00102	1.16628	2826.636	3300.57
-1.02945	0.51753	0.97139	2963.475	2878.834
1.0345	0.79698	1.0345	436.0861	446.0268
1.11607	0.26545	1.11607	3470.897	3903.359
1.09164	0.43164	1.09164	337.6426	367.5201
1.22203	0.12998	1.22203	471.9484	570.9472
-1.02965	0.65497	0.9712	963.522	938.3677
-1.60655	1.83E-29	0.62245	18701.59	11640.5
1.69668	0.15315	1.69668	85.56994	148.661
1.01229	0.87671	1.01229	4586.919	4523.165
1.02241	0.80732	1.02241	1021.17	1037.886
-1.04839	0.88013	0.95385	168.4222	160.0172
1.05769	0.70343	1.05769	1314.103	1385.008
1.0943	0.19317	1.0943	3719.62	4078.534
1.02408	0.85146	1.02408	376.6428	383.0522
-1.00727	0.95987	0.99278	374.5891	372.354
-1.15854	0.51657	0.86315	267.5992	231.2752
-1.03218	0.81507	0.96883	1107.26	1061.766
1.17817	0.05353	1.17817	12062.65	14311.35
-1.59806	0.00023	0.62576	565.2249	357.9391
1.08174	0.36627	1.08174	886.0735	954.5329
1.20024	0.01251	1.20024	732.5443	878.2304
1.00709	0.91965	1.00709	661.0502	665.9113
1.04957	0.6198	1.04957	461.7218	485.9694
-1.04248	0.48281	0.95925	2357.365	2264.955
1.01421	0.87889	1.01421	2999.981	3037.304
1.04199	0.63165	1.04199	3806.708	3963.157
-1.26934	0.00002	0.78781	19291.48	15071.13
1.01821	0.84962	1.01821	690.9144	699.0496
-1.05709	0.82208	0.94599	174.5028	166.861
1.03144	0.6775	1.03144	3587.257	3682.125
1.10205	0.48976	1.10205	354.3671	385.5729
-1.13692	0.21206	0.87957	529.0457	468.5643
1.03966	0.53007	1.03966	1117.107	1159.641
-1.12065	0.5728	0.89234	368.2316	341.9165
-1.06522	0.67023	0.93877	390.437	369.0406
-1.03701	0.61453	0.96431	668.8782	644.6794
1.04837	0.6491	1.04837	942.6879	978.3256
-1.00213	0.99198	0.99787	200.7246	200.2622
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-1.0385	0.74806	0.96293	572.8516	557.4512

1.02473	0.73572	1.02473	837.4562	861.3572
1.00126	0.98913	1.00126	1287.96	1288.611
1.16387	0.00247	1.16387	18703.11	21902.43
-1.02786	0.91612	0.9729	243.702	235.5617
1.46071	0.01159	1.46071	2587.487	3927.104
-1.10174	0.60521	0.90766	368.3424	330.6634
1.11779	0.26922	1.11779	790.4825	890.6945
1.07971	0.6233	1.07971	298.2093	320.2409
1.06356	0.44046	1.06356	707.92	750.5026
-1.06785	0.50098	0.93646	865.4282	818.6168
1.0107	0.84812	1.0107	2768.536	2796.971
-1.06297	0.50339	0.94076	543.1693	510.6788
-1.07298	0.47979	0.93199	1544.066	1436.006
1.05942	0.52119	1.05942	1402.396	1483.308
1.02413	0.90292	1.02413	283.9282	299.1341
1.00876	0.90386	1.00876	3351.404	3369.214
1.03914	0.73881	1.03914	1237.031	1269.092
-1.03999	0.54739	0.96155	2937.607	2829.105
1.03106	0.76626	1.03106	3685.417	3819.05
1.91402	0.00037	1.91402	236.9963	442.8116
-1.01342	0.90366	0.98675	932.5389	924.7529
1.00524	0.9686	1.00524	424.069	432.1685
1.02945	0.80584	1.02945	347.1749	358.2686
-1.0709	0.72692	0.9338	366.6663	345.5549
-1.03284	0.85867	0.96821	390.0857	375.5733
-1.08075	0.34839	0.92528	985.0032	918.1221
1.141	0.87384	1.141	54.02936	64.84064
1.11277	0.23235	1.11277	3648.25	4148.757
1.19559	0.0124	1.19559	1951.127	2322.99
1.12952	0.13513	1.12952	1941.779	2196.85
-1.00927	0.92504	0.99081	435.258	431.2075
1.29602	0.00226	1.29602	1164.943	1505.301
1.15859	0.23937	1.15859	10334.16	12261.64
1	1	1	22.81544	21.41314
-1.27358	0.0002	0.78519	1222.934	960.0717
-1.01051	0.83617	0.9896	2150.66	2128.141
1.41689	0.85142	1.41689	22.88317	28.41302
-1.01116	0.82599	0.98896	8226.724	8146.073
1.07271	0.56423	1.07271	2756.851	2886.517
1.02641	0.89895	1.02641	242.8691	249.6929
-1.16998	0.18098	0.85472	562.0264	485.5856
1.1822	0.00009	1.1822	4248.787	5024.746
-1.02724	0.78831	0.97349	557.4974	544.8876
-1.05123	0.87654	0.95127	177.8683	169.0794
1.03561	0.709	1.03561	972.2568	999.3932
1.14841	0.34048	1.14841	421.9411	475.0386
-1.00222	0.97035	0.99778	3136.488	3128.969
1.08948	0.67914	1.08948	257.2687	273.6442
1.16663	0.0472	1.16663	5101.514	5984.905
1.77242	6.80E-11	1.77242	627.1494	1107.848
1.04244	0.43279	1.04244	5309.846	5560.176
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-1.29193	0.02275	0.77404	873.3177	682.7728
-1.50648	0.01096	0.6638	774.3132	524.6043
1.22422	0.08127	1.22422	334.5416	409.9362
-1.06946	0.89134	0.93505	115.2371	109.9234
-1.14401	0.36626	0.87412	532.3201	476.5992
-1.01712	0.8691	0.98317	587.2299	576.2463
1.05706	0.92403	1.05706	80.93034	86.55732
1.0028	0.97957	1.0028	570.3945	566.2638
-1.00669	0.91505	0.99336	762.8235	757.8156
-1.0059	0.97914	0.99413	201.4952	200.3023
-1.02268	0.93284	0.97782	199.6942	193.9955
-1.0363	0.56618	0.96497	1707.266	1649.139
-1.15718	0.0329	0.86417	5909.243	5037.81
1.11084	0.2478	1.11084	906.7082	1002.876
1.02751	0.93518	1.02751	146.7348	150.9385
1.01176	0.8732	1.01176	1161.389	1174.388
1.89331	3.83E-26	1.89331	3667.354	6901.34
-1.00157	0.9818	0.99844	2137.507	2118.821
1.02669	0.88789	1.02669	281.484	290.0397
-1.01155	0.84023	0.98858	1193.364	1182.349
-1.10614	0.68213	0.90405	243.3068	219.8089
-1.20539	0.62337	0.82961	160.486	132.0521
-1.253	0.16346	0.79809	1596.747	1238.79
1.00409	0.95923	1.00409	966.776	973.2607
-1.062	0.3746	0.94162	6876.027	6378.246
-1.03048	0.76151	0.97042	533.6331	517.2966
1.21245	0.3457	1.21245	173.5514	209.9569
1.01285	0.89536	1.01285	1019.597	1036.547
-1.11439	0.21656	0.89735	1730.955	1576.656
-1.54791	0.00004	0.64603	37751.34	24995.94
1.35026	0.1368	1.35026	206.5594	282.4861
1.02099	0.80583	1.02099	1428.131	1453.55
-1.04442	0.84004	0.95747	282.8047	268.6737
1.00517	0.93849	1.00517	1615.883	1622.023
1.05086	0.45695	1.05086	1944.562	2054.578
1.05841	0.87109	1.05841	149.9875	150.9684
-1.08897	0.11591	0.9183	2063.844	1892.522
-1.17387	0.09421	0.85188	884.8996	760.4183
-1.07128	0.75596	0.93346	279.5233	265.2634
-1.03329	0.57506	0.96779	930.2114	899.4136
-1.10432	0.20901	0.90553	924.8949	841.0651
-1.37687	1.34E-13	0.72628	11531.88	8367.937
-1.13231	0.36151	0.88315	1924.443	1676.556
1.05433	0.78911	1.05433	203.5885	213.1079
-1.44804	8.37E-06	0.69059	1675.95	1168.067
-1.13405	0.10584	0.8818	1209.489	1066.6
1.00657	0.9818	1.00657	176.8483	179.1626
-1.04102	0.65884	0.9606	1549.497	1493.228
-1.06942	0.4983	0.93509	1077.783	1014.599
1.0108	0.88902	1.0108	1060.767	1068.301
1.02118	0.74955	1.02118	4069.515	4173.909
-1.24666	0.02625	0.80214	1713.431	1376.847

1.02394	0.84999	1.02394	3361.752	3333.595
-1.27931	0.02872	0.78167	1539.308	1199.879
1.32949	2.75E-08	1.32949	2495.599	3316.241
-1.04428	0.41441	0.9576	20531.36	19731.62
1.01127	0.93166	1.01127	647.5481	666.1704
1.03701	0.51553	1.03701	1101.66	1141.71
1.46304	0.00001	1.46304	5222.558	7504.314
1.0899	0.51716	1.0899	10032.14	11417.75
1.22035	0.01138	1.22035	646.7703	792.33
-1.09695	0.5505	0.91162	519.4704	479.1113
-1.01249	0.85575	0.98767	2069.725	2033.204
1.01026	0.82727	1.01026	1852.478	1871.693
1.2339	1.14E-06	1.2339	4678.484	5768.651
-1.05515	0.67353	0.94774	561.8562	540.9949
1.02753	0.73457	1.02753	810.5975	830.1868
-1.66689	6.74E-15	0.59992	11382.77	6732.707
1.36918	0.00083	1.36918	3663.584	5070.923
-1.04585	0.55618	0.95616	1594.875	1530.789
-1.44132	1.85E-18	0.69381	8436.747	5853.659
-1.03589	0.78886	0.96536	606.3319	586.3166
1.02527	0.75707	1.02527	3184.296	3259.514
-1.0641	0.49553	0.93976	1695.508	1604.535
-2.01609	1.88E-13	0.49601	1584.181	783.7627
-1.04697	0.48187	0.95513	4178.104	3976.583
-1.63921	5.88E-06	0.61005	14822.37	8688.797
-1.02586	0.68384	0.97479	768.4125	749.8264
-1.5362	0.04063	0.65096	332.2878	223.1172
-1.10943	0.78668	0.90136	146.7899	131.479
1.05447	0.53522	1.05447	3694.821	3852.199
-1.01928	0.77767	0.98108	2472.154	2438.625
-1.00507	0.96512	0.99496	384.5172	384.529
1.0505	0.27821	1.0505	2788.094	2930.052
1.13509	0.17012	1.13509	887.0989	1010.072
1.14994	0.02845	1.14994	916.3186	1051.366
-1.01789	0.92305	0.98242	269.6761	261.7382
1.0591	0.65194	1.0591	376.4575	402.5045
1.31745	0.00185	1.31745	957.8674	1255.888
1.11241	0.27924	1.11241	502.426	555.3925
-1.00466	0.9471	0.99536	824.2622	820.9865
1.10406	0.63645	1.10406	253.1838	277.3461
1.49534	0.00071	1.49534	15989.95	24999.34
-1.03478	0.64221	0.96639	3310.314	3183.953
1.01954	0.9082	1.01954	231.806	234.7733
1.05521	0.37483	1.05521	2398.6	2528.092
-1.01941	0.65178	0.98096	3984.131	3908.463
-1.08279	0.7312	0.92354	203.0124	189.5302
1.16371	0.0857	1.16371	517.7599	604.7217
1	1	1	23.37431	19.07942
1.04619	0.68755	1.04619	444.0035	460.976
1.02168	0.8267	1.02168	343.4777	350.8738
-1.01257	0.82892	0.98758	2442.619	2418.139
1.09181	0.56112	1.09181	415.0545	443.7006

-1.00302	0.97027	0.99699	955.438	946.6606
-1.12915	0.50302	0.88562	475.8033	419.4911
-1.01878	0.87277	0.98157	731.1876	727.0372
-1.09186	0.40245	0.91587	492.6956	454.0323
1.08836	0.54297	1.08836	335.1415	363.7629
1.14358	0.0101	1.14358	2524.479	2889.663
-1.07536	0.47633	0.92992	972.0354	908.1267
1.03368	0.90932	1.03368	161.4712	166.9146
1.09706	0.70971	1.09706	231.542	253.337
1.4704	0.00146	1.4704	712.5339	1040.423
-1.02775	0.66907	0.973	3665.532	3584.393
-1.02963	0.64155	0.97122	1041.964	1012.278
1.18085	0.02937	1.18085	8253.415	9913.725
-1.03028	0.73439	0.97061	497.8805	483.0897
-1.10318	0.39059	0.90647	4391.501	3856.975
-1.10347	0.61183	0.90623	364.9907	325.7378
-1.00656	0.93013	0.99348	1238.836	1234.873
1.09601	0.08012	1.09601	9872.67	10892.45
-1.16085	0.39688	0.86144	416.3019	354.9818
-1.56841	8.54E-07	0.63759	5747.414	3598.894
-1.05141	0.86493	0.95111	200.0044	201.3653
-1.02348	0.67939	0.97706	2949.718	2887.472
-1.01084	0.90851	0.98928	2051.123	2062.016
1.06322	0.43542	1.06322	680.1934	724.2178
-1.21836	0.08536	0.82078	763.0886	631.181
1.31434	0.00131	1.31434	663.9584	875.275
-1.94229	4.52E-32	0.51486	3496.613	1805.115
1.07977	0.55948	1.07977	300.2908	322.3804
1.26889	0.00294	1.26889	803.87	1016.993
1.09656	0.22195	1.09656	3326.294	3608.363
1.02536	0.66995	1.02536	1474.117	1510.883
2.25651	3.98E-10	2.25651	2460.565	5681.312
1.17063	0.30897	1.17063	263.5125	309.8783
1.10453	0.79516	1.10453	95.37122	106.1517
-1.13543	0.61457	0.88072	250.6335	225.1736
1.06507	0.38479	1.06507	2537.662	2680.309
-1.25871	0.14023	0.79447	550.9722	446.0794
1.04546	0.76849	1.04546	860.192	884.0241
1.52475	0.00009	1.52475	774.8207	1190.401
-1.05636	0.54861	0.94664	887.4393	837.1378
1.06054	0.34156	1.06054	1506.099	1595.589
-1.02459	0.80246	0.976	433.3845	423.8557
1.86988	1.78E-43	1.86988	2528.957	4728.613
1.14728	0.12255	1.14728	5779.83	6756
1.32671	0.00098	1.32671	1152.855	1533.61
1.03733	0.6565	1.03733	966.2435	994.9373
-1.00977	0.95271	0.99032	366.3398	364.2009
-1.10946	0.31004	0.90134	1076.828	983.3566
-1.13291	0.07488	0.88268	1725.194	1518.348
-1.3727	2.05E-11	0.72849	3304.435	2409.289
1.19933	0.00627	1.19933	3327.222	3964.26
-1.00555	0.924	0.99448	1752.998	1736.919

1.02699	0.6821	1.02699	1996.98	2042.519
1.00131	0.98361	1.00131	691.6365	692.9434
1.05876	0.49142	1.05876	911.621	967.8082
1.02471	0.89336	1.02471	259.6465	265.7488
-1.03355	0.71272	0.96754	881.5009	858.386
1.38927	0.00085	1.38927	368.9316	512.1587
-1.01079	0.88892	0.98933	893.1591	880.4714
-1.02216	0.80253	0.97832	559.5012	549.0005
1.08725	0.77284	1.08725	193.6298	212.2067
-1.10783	0.66717	0.90266	149.4935	134.4619
-1.04289	0.63599	0.95887	1339.134	1288.303
1.07954	0.51225	1.07954	460.2092	491.8984
1.0282	0.91326	1.0282	195.1285	195.0868
1.03381	0.79487	1.03381	421.4476	436.0259
1.02776	0.72799	1.02776	760.7318	778.9567
1.04591	0.54862	1.04591	673.844	706.1176
1.15891	0.09506	1.15891	1415.666	1630.617
-1.01894	0.74401	0.98141	1744.672	1707.137
1.09456	0.593	1.09456	238.03	258.1507
1.01374	0.75205	1.01374	8041.342	8150.588
1.10384	0.7222	1.10384	168.7436	186.159
1.02383	0.77406	1.02383	2495.268	2593.663
-1.00971	0.87497	0.99038	2260.218	2242.458
1.02906	0.56512	1.02906	1968.262	2026.392
1.03556	0.72906	1.03556	3257.817	3287.879
2.39718	3.18E-26	2.39718	1853.777	4394.62
1.16965	0.0837	1.16965	1755.269	2030.373
-1.03946	0.80192	0.96204	373.1451	358.0471
-1.26344	0.00916	0.79149	1604.185	1270.034
-1.08714	0.90684	0.91985	78.3376	74.00579
-1.02579	0.90826	0.97486	284.4721	273.4373
-1.09929	0.84323	0.90968	123.7259	114.0939
1.08023	0.4048	1.08023	521.6917	564.3225
-1.05494	0.7404	0.94792	438.8481	412.6812
1.05487	0.55271	1.05487	1535.966	1610.174
1.02824	0.66224	1.02824	3215.379	3289.966
1.01337	0.86483	1.01337	1017.547	1033.06
-1.23627	0.44402	0.80889	166.8025	134.8937
1.13881	0.84346	1.13881	76.32687	89.20586
1.60506	0.02455	1.60506	221.2975	346.1873
-1.14183	0.1777	0.87579	1040.93	921.9845
1.17033	0.01548	1.17033	1829.385	2145.012
1.27565	0.00019	1.27565	1543.628	1970.095
1.33844	0.00036	1.33844	3751.967	4951.16
1.06504	0.42396	1.06504	4380.476	4728.78
-1.23243	0.34973	0.8114	300.5949	244.4062
1.03521	0.69532	1.03521	607.5288	631.5825
-1.02533	0.65277	0.9753	3025.521	2941.08
1.10735	0.88182	1.10735	71.90152	80.87606
-1.14812	0.00614	0.87099	3131.482	2721.277
-1.11332	0.29867	0.89822	623.1947	563.3041
1.01236	0.95523	1.01236	171.7686	172.9052

1.01699	0.84499	1.01699	1744.014	1794.932
1.0935	0.69814	1.0935	179.5113	195.6192
1.0238	0.82307	1.0238	742.4318	753.676
-1.3245	0.00129	0.755	8781.521	6523.804
1.0791	0.39156	1.0791	575.2142	618.1873
1.33004	0.0015	1.33004	612.6008	810.1862
1.1674	0.04285	1.1674	692.9402	806.2889
-1.15298	0.07012	0.86732	1314.084	1140.259
1.18873	0.54695	1.18873	140.5831	167.2894
1.2646	1.44E-06	1.2646	2510.234	3178.507
-1.05221	0.74327	0.95038	378.4377	359.014
-1.02122	0.6531	0.97922	1855.62	1816.929
-1.0787	0.19428	0.92704	2085.814	1928.747
1.04619	0.70471	1.04619	532.9698	562.2882
1.06875	0.30387	1.06875	1611.867	1721.337
-1.0115	0.89431	0.98863	992.8549	985.1891
-1.12333	0.16949	0.89021	2947.305	2598.355
1.54613	2.98E-07	1.54613	5139.404	8141.883
1.0248	0.92794	1.0248	179.1868	184.4441
-1.05987	0.61434	0.94351	5523.301	5049.725
-1.01024	0.86251	0.98987	1486.056	1472.896
1.14184	0.00541	1.14184	3408.774	3901.6
1.02279	0.59759	1.02279	2553.556	2611.742
1.02022	0.84432	1.02022	360.8998	368.5298
1.08044	0.48142	1.08044	633.1127	676.3786
1.04554	0.5418	1.04554	1476.398	1538.907
1.18568	0.02733	1.18568	6558.388	7678.247
-1.09139	0.53357	0.91626	504.9193	462.9092
1.00004	0.9996	1.00004	771.4085	767.8696
1.43547	5.33E-08	1.43547	769.0841	1103.771
-1.09115	0.92495	0.91646	58.39114	54.49
1.01938	0.73319	1.01938	1723.41	1757.48
-1.01102	0.83729	0.9891	2198.516	2179.1
1.09143	0.20562	1.09143	1705.984	1862.406
1.11033	0.21231	1.11033	1406.664	1556.632
-1.11197	0.2191	0.8993	864.5588	782.7805
-1.05703	0.5471	0.94604	1028.736	983.4893
1.30191	0.03509	1.30191	1825.102	2452.444
-1.09557	0.66465	0.91277	338.2453	301.7504
-1.01814	0.89975	0.98219	401.5859	395.5584
1.05461	0.61809	1.05461	689.2296	733.8513
-1.0251	0.76055	0.97551	474.8757	462.9384
-1.06713	0.75997	0.93709	310.9563	286.6557
2.69525	2.80E-45	2.69525	58430.86	156155.6
1.01943	0.83253	1.01943	493.7712	502.861
-1.09618	0.54195	0.91226	521.4831	471.8388
-1.1643	0.44308	0.85889	402.5741	336.1859
1.00383	0.95414	1.00383	1277.14	1281.529
1.0103	0.87742	1.0103	1074.694	1083.664
-1.1428	0.80748	0.87504	112.8035	94.74569
-1.02355	0.91563	0.97699	185.088	181.2664
1.04504	0.69264	1.04504	2474.621	2591.468

-1.13208	0.78231	0.88333	112.0456	101.3619
-1.77943	4.52E-14	0.56198	2311.327	1297.116
-1.27044	0.00001	0.78713	3331.851	2631.271
-1.11067	0.10427	0.90036	3647.148	3285.331
-1.03793	0.71796	0.96345	865.1452	841.942
-1.14382	0.68039	0.87427	190.8187	176.176
1.01466	0.8801	1.01466	469.5134	478.5496
-1.09173	0.43159	0.91598	967.845	898.4045
1.05886	0.83365	1.05886	169.0649	175.0165
1.03374	0.85172	1.03374	275.111	289.2909
1.48329	0.00018	1.48329	1700.584	2523.64
-1.0694	0.69851	0.93511	308.673	288.792
1.01976	0.94619	1.01976	172.2496	176.1618
1.00192	0.98645	1.00192	571.0975	566.8265
-1.08378	0.21259	0.92269	1091.192	1007.148
-1.46377	5.26E-08	0.68317	11723.09	8109.207
1.04188	0.84847	1.04188	221.9403	235.2758
-1.06313	0.44867	0.94062	800.8466	750.7026
1.04841	0.61393	1.04841	1433.889	1505.19
-1.45909	7.80E-15	0.68536	4960.163	3405.352
1.03007	0.79966	1.03007	714.9744	743.7454
-1.09534	0.04111	0.91296	3164.439	2888.179
1.09796	0.16905	1.09796	7514.472	8235.16
-1.03283	0.91602	0.96821	168.8126	163.8893
1.02359	0.7448	1.02359	1983.766	2017.274
1.24484	0.00071	1.24484	1340.213	1669.761
-1.0602	0.48232	0.94322	3069.778	2874.318
1.00476	0.97799	1.00476	241.8615	243.8151
1.03679	0.64163	1.03679	1284.759	1334.987
1.00545	0.94862	1.00545	2503.958	2497.38
-2.07463	1.19E-07	0.48201	6630.982	3052.715
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-1.08658	0.08146	0.92032	15636.6	14336.76
1.377	0.00013	1.377	1996.859	2723.183
1.13897	0.00889	1.13897	1624.005	1849.377
1.16544	0.00442	1.16544	2199.801	2566.957
-1.05419	0.72146	0.9486	371.327	352.1147
1.1643	0.69789	1.1643	126.8067	139.6374
1.01018	0.93056	1.01018	1243.891	1255.811
1.06825	0.73438	1.06825	253.869	265.7825
-1.18732	0.31228	0.84223	629.1565	519.3533
-1.00831	0.90858	0.99176	918.3562	913.0881
1.30136	3.98E-06	1.30136	9172.698	12060.55
-1.06591	0.70404	0.93817	397.7104	383.6132
1.02847	0.52896	1.02847	4237.222	4361.192
1.13973	0.7694	1.13973	84.63443	95.56635
1.39212	7.25E-12	1.39212	3157.202	4403.952
1.06253	0.81343	1.06253	180.8046	194.3637
-1.09145	0.28591	0.91621	704.8378	648.2457
1.40816	1.64E-12	1.40816	1794.35	2527.438
-1.06659	0.35709	0.93757	798.3272	749.8786
-1.03324	0.77245	0.96783	2448.283	2322.042

-1.18982	0.0883	0.84046	3972.566	3265.01
-1.03645	0.59312	0.96483	2567.084	2468.302
-1.37727	0.00007	0.72608	634.5046	460.0839
-1.00933	0.82932	0.99075	6254.292	6190.099
1.04376	0.85723	1.04376	207.9462	211.6871
-1.04371	0.34126	0.95812	10226.95	9780.628
-1.08272	0.31695	0.9236	4888.451	4466.562
-1.01074	0.80379	0.98938	2414.415	2388.549
-1.12486	0.22401	0.889	3827.68	3370.896
1.01329	0.84814	1.01329	2387.637	2423.502
1.05609	0.62081	1.05609	532.5029	567.9303
-1.0088	0.91458	0.99128	1232.35	1227.54
-1.31813	0.09707	0.75865	301.419	229.4815
1.15072	0.02016	1.15072	1642.932	1888.348
-1.32633	0.03285	0.75396	2118.369	1625.371
-1.12659	0.22463	0.88763	11173.88	9638.109
-1.08912	0.11312	0.91817	4797.627	4382.666
-1.04011	0.66528	0.96143	1486.13	1428.196
1.17076	0.00505	1.17076	3313.205	3861.002
-1.08717	0.18604	0.91982	1076.654	991.5892
1.00049	0.99866	1.00049	203.0351	200.1916
-1.11487	0.04473	0.89696	8513.178	7656.071
1.12228	0.3104	1.12228	11680.82	13554.56
-1.08373	0.30175	0.92274	1690.642	1568.124
-1.09743	0.56205	0.91122	433.8521	394.1039
1.14293	0.14064	1.14293	28313.98	32971.66
-1.02823	0.66681	0.97254	2718.879	2637.265
-1.01892	0.71223	0.98143	4631.59	4544.731
1.01605	0.82639	1.01605	1567.3	1599.901
1.04272	0.37691	1.04272	5019.749	5233.642
-1.30936	7.31E-06	0.76373	9225.594	7079.113
1.04974	0.67231	1.04974	3945.051	4141.279
-1.10249	0.6419	0.90704	337.7148	298.0165
-1.04531	0.90844	0.95665	134.6759	135.9454
1.63447	0.49559	1.63447	45.31133	70.71897
-1.02026	0.79368	0.98014	2899.301	2840.002
-1.36691	0.00032	0.73158	3240.319	2335.727
1.01766	0.80014	1.01766	798.9583	812.4287
-1.24595	0.02094	0.8026	848.9634	687.0465
-1.05332	0.41292	0.94938	845.5264	801.8323
1.02197	0.85855	1.02197	427.0314	440.8618
-1.03938	0.4968	0.96211	14554.71	14104.64
1.16444	0.57081	1.16444	215.0659	237.0919
-1.08343	0.30675	0.92299	1130.621	1051.418
1.14128	0.35721	1.14128	414.4658	482.391
1.04814	0.55743	1.04814	526.8279	551.6014
-1.10774	0.08828	0.90274	2826.214	2557.741
-1.27801	0.28667	0.78247	461.2285	362.7165
1.0923	0.46863	1.0923	494.1592	532.85
1.00149	0.99278	1.00149	327.7028	328.9883
-1.02898	0.91252	0.97184	214.7891	208.0664
1.12147	0.35633	1.12147	560.4539	637.9584

1.07457	0.7855	1.07457	180.8481	192.1909
-1.04571	0.74479	0.95628	525.9306	500.9585
1.12639	0.53285	1.12639	246.3737	272.91
1.13542	0.6212	1.13542	171.9044	195.683
1.08038	0.5491	1.08038	497.2031	529.806
1.04597	0.62408	1.04597	1497.48	1575.318
1.012	0.86147	1.012	850.9873	862.2974
1.0401	0.78629	1.0401	273.1547	285.6201
-1.19942	0.01831	0.83374	870.0486	728.9034
1.14381	0.18229	1.14381	1042.361	1188.518
1.09189	0.145	1.09189	1125.7	1226.678
1.06038	0.2777	1.06038	9768.416	10384.42
-1.05612	0.72902	0.94686	355.4791	337.04
-1.00067	0.99695	0.99933	283.231	283.5126
-1.10361	0.6621	0.90612	295.4005	273.1862
-1.04067	0.82562	0.96092	258.3418	248.4082
-1.10119	0.33091	0.90811	760.0464	695.0265
-1.0536	0.28861	0.94913	2118.641	2010.492
-1.00441	0.93003	0.99561	7091.376	7058.803
1.04957	0.52243	1.04957	663.1694	694.9965
-1.06113	0.92038	0.9424	93.3357	85.8144
1.26001	0.03769	1.26001	407.734	510.7879
-1.05461	0.75524	0.94822	409.6496	392.1757
-1.01643	0.81208	0.98384	903.3955	891.1367
-1.08763	0.75313	0.91943	228.0998	212.6992
1.16457	0.32517	1.16457	240.8412	278.5712
1.03875	0.78895	1.03875	347.5344	361.0102
1.0318	0.62187	1.0318	3289.185	3364.12
1.01224	0.8772	1.01224	763.1744	774.6226
-1.0532	0.57759	0.94949	770.1155	736.0947
1.01221	0.88929	1.01221	651.445	660.9956
-1.19851	0.03219	0.83437	2016.054	1673.472
1.02927	0.61853	1.02927	1175.504	1209.005
1.16949	0.04346	1.16949	744.1398	872.6998
1.03252	0.67482	1.03252	1304.511	1347.638
-1.07711	0.67812	0.92841	360.5772	344.5652
-1.00451	0.93088	0.99551	1978.771	1970.876
-1.01584	0.79164	0.98441	7633.516	7572.625
1.17355	0.18846	1.17355	324.122	378.5661
-1.06657	0.40236	0.93758	2983.656	2774.343
-1.09518	0.7104	0.91309	246.0953	222.9939
-1.10223	0.32152	0.90726	1272.721	1153.249
1.53603	1.69E-10	1.53603	1558.453	2388.925
1.19865	0.34663	1.19865	221.2931	262.0773
-1.05395	0.78534	0.94881	313.3976	295.8427
-1.0707	0.59523	0.93397	430.8936	406.7006
-1.00879	0.98649	0.99129	106.0829	102.9446
1.00451	0.91278	1.00451	9343.08	9385.671
1.13308	0.45385	1.13308	455.3283	501.3314
1.01356	0.88321	1.01356	646.532	657.3284
2.29583	2.41E-38	2.29583	1336.732	3078.212
1.02633	0.76158	1.02633	706.0051	728.1834

1.09688	0.50046	1.09688	286.2714	313.2105
1.054	0.23524	1.054	4929.538	5189.073
1.13036	0.22194	1.13036	16165.18	18642.33
1.35389	0.00058	1.35389	1854.104	2541.981
1.30742	0.00267	1.30742	17609.02	23535.49
-1.14697	0.09807	0.87187	1031.668	903.2558
1.00606	0.9351	1.00606	840.8936	842.1686
-1.17954	0.05003	0.84779	1279.523	1087.401
-1.5041	0.00025	0.66485	3129.895	2020.651
1.00202	0.98327	1.00202	1570.566	1567.712
-1.09083	0.41848	0.91673	4996.83	4749.896
-1.06719	0.62625	0.93704	457.7734	429.6455
1.16303	0.11956	1.16303	456.824	530.4871
1	1	1	25.6503	19.96194
1.02581	0.83928	1.02581	529.2818	537.4274
-1.75935	0.06798	0.56839	220.62	132.7335
1.002	0.97482	1.002	843.1262	844.1774
1.32179	0.00228	1.32179	766.0812	1009.984
-1.12129	0.33117	0.89183	5142.569	4479.964
1.06476	0.52289	1.06476	470.7772	500.4984
-1.09282	0.45796	0.91507	464.7011	425.3884
1.02547	0.92573	1.02547	142.3073	144.2973
-1.21646	0.00945	0.82206	9685.646	7841.798
-1.00265	0.97738	0.99736	630.515	632.3795
1.12153	0.51646	1.12153	251.183	283.7523
1.04094	0.56545	1.04094	2397.622	2496.59
1.03754	0.74561	1.03754	466.7409	483.4967
-1.36126	7.95E-06	0.73461	54997.87	40856.64
1.04364	0.79504	1.04364	269.6413	283.5961
-1.08894	0.70931	0.91832	183.5411	170.5412
-1.00274	0.9753	0.99727	597.0568	595.3308
-1.01796	0.82832	0.98236	740.5559	730.8846
-1.11204	0.20243	0.89925	939.452	850.7482
1.25119	0.00014	1.25119	1544.95	1930.431
-1.04818	0.52628	0.95404	2562.42	2429.519
-1.33736	2.85E-06	0.74774	15124.24	11307.36
-1.00759	0.88848	0.99246	3000.072	2985.764
1.0509	0.41591	1.0509	3584.531	3769.701
1.095	0.69656	1.095	172.9092	188.8172
-1.01323	0.91674	0.98694	452.0484	446.2035
-1.10846	0.22621	0.90215	6014.075	5350.996
1.27557	0.01408	1.27557	1380.801	1751.798
-1.00116	0.98822	0.99884	1934.107	1952.544
-1.10653	0.76024	0.90373	186.8127	173.4832
1.09373	0.48209	1.09373	4343.939	4867.891
1.03527	0.49022	1.03527	3300.311	3422.589
-1.02609	0.82388	0.97457	467.4575	458.4997
1.10073	0.38326	1.10073	444.3438	485.5819
-1.07634	0.3705	0.92908	1860.787	1724.086
-1.30684	0.00097	0.76521	883.2146	674.7656
1.12734	0.51438	1.12734	270.4157	303.5969
-1.01696	0.93981	0.98332	213.0564	209.3786

-1.00359	0.94942	0.99642	1543.026	1538.998
-1.02281	0.68784	0.9777	5382.955	5261.986
-1.23425	0.0258	0.81021	5675.395	4499.331
-1.02901	0.80681	0.97181	373.5356	362.8662
1.08051	0.74669	1.08051	217.2757	227.9853
-1.08426	0.78415	0.92229	193.6187	180.1695
1.13466	0.24568	1.13466	663.0689	745.3057
-1.03616	0.53656	0.9651	2324.831	2239.498
-1.0249	0.8509	0.9757	2471.622	2454.595
-1.05124	0.3978	0.95125	2611.449	2480.936
-1.04499	0.49959	0.95694	3798.144	3592.345
1.15202	0.05075	1.15202	691.3912	794.5508
1.16619	0.00377	1.16619	1499.961	1748.798
1.12678	0.44149	1.12678	277.7852	311.2413
1.00263	0.95376	1.00263	5470.956	5483.376
1.04244	0.85274	1.04244	245.0935	257.4321
-1.00242	0.98391	0.99758	491.8881	485.1277
1.00294	0.96835	1.00294	799.3313	803.5503
-1.24551	0.30723	0.80288	325.094	270.4122
1.24115	0.00937	1.24115	1328.118	1652.799
1.02304	0.66633	1.02304	2156.033	2205.256
1.07243	0.6902	1.07243	284.7053	305.9958
-1.23095	0.6314	0.81238	139.015	114.4457
1.16746	0.15109	1.16746	1015.091	1184.771
-1.01071	0.8245	0.98941	3964.95	3925.038
-1.38188	0.00006	0.72365	3352.02	2395.688
1.24855	0.01608	1.24855	943.0021	1178.153
-1.2625	0.75568	0.79208	72.66418	65.73809
-1.18975	0.00107	0.84051	6974.148	5826.243
1.01998	0.74603	1.01998	1930.651	1970.029
-1.00581	0.92637	0.99423	1824.74	1819.036
-1.07653	0.39917	0.92891	1623.49	1496.249
-1.00335	0.96421	0.99666	4837.511	4751.73
-1.05462	0.83752	0.94821	187.8849	177.9737
-1.06841	0.74676	0.93597	319.9581	296.11
1.03082	0.79793	1.03082	387.1636	396.2899
1.01275	0.97242	1.01275	138.429	135.5573
1.10417	0.23841	1.10417	352.4683	381.1906
1.13679	0.41027	1.13679	263.0418	300.6144
1.03218	0.87555	1.03218	288.3666	295.2943
1.11482	0.22956	1.11482	5720.304	6212.98
1.0384	0.57497	1.0384	1743.251	1808.267
1.02584	0.81641	1.02584	560.5344	581.0442
1.21422	0.03436	1.21422	1713.514	2100.915
1.00813	0.98447	1.00813	115.6008	119.4176
1.06697	0.42043	1.06697	1735.369	1866.308
1.12222	0.02931	1.12222	3178.699	3583.962
-1.03105	0.7841	0.96989	388.9445	375.7256
1.28603	0.74535	1.28603	40.30067	52.0303
1.04113	0.8777	1.04113	212.4038	223.8953
1.06475	0.39513	1.06475	7388.731	7770.398
-1.1856	0.05119	0.84345	996.8984	847.5209

1.08141	0.5095	1.08141	1039.318	1119.366
-1.12715	0.40881	0.88719	541.2263	477.3359
1.06215	0.5941	1.06215	809.3029	853.3014
1.05544	0.47857	1.05544	725.7495	764.9238
-1.03432	0.60877	0.96681	1092.388	1053.719
1.02244	0.88632	1.02244	230.4059	235.7386
1.08032	0.71499	1.08032	293.9029	302.6959
-1.07586	0.6286	0.92949	328.6536	304.9377
1.10094	0.39352	1.10094	2240.398	2463.666
1.04367	0.43137	1.04367	1348.822	1406.688
-1.02138	0.76846	0.97907	1978.086	1938.924
-1.10716	0.10153	0.90321	1086.686	981.641
-1.1528	0.01329	0.86745	2464.108	2132.141
1.10623	0.73912	1.10623	134.4592	145.7748
-1.46419	0.01688	0.68297	597.946	418.5999
-1.27347	0.00014	0.78526	3348.555	2610.96
1.01827	0.8181	1.01827	1091.844	1111.952
-1.04223	0.45113	0.95948	2771.835	2655.353
-1.01221	0.87658	0.98794	6371.494	6339.507
-1.18791	0.02337	0.84182	1092.73	923.8831
1.00931	0.93551	1.00931	638.6022	652.5916
1.02145	0.89681	1.02145	996.5217	1030.694
-1.02548	0.74656	0.97515	2543.799	2480.96
-1.04251	0.67451	0.95922	617.346	597.0389
-1.03177	0.55827	0.96921	4575.937	4403.722
-1.17217	0.06072	0.85312	822.8365	705.1843
1.02991	0.6241	1.02991	973.0844	1002.32
1.21894	0.00503	1.21894	13244.13	16344.36
1.00857	0.86581	1.00857	3967.138	4002.066
1.17448	0.30801	1.17448	559.9485	676.3138
-1.07868	0.69523	0.92706	238.335	218.1677
1.24696	0.00356	1.24696	1301.628	1626.261
1.39656	0.00015	1.39656	1008.505	1409.11
-1.1458	0.40682	0.87276	532.0649	468.4022
-1.11075	0.51531	0.90029	386.4583	348.9162
-1.09632	0.40356	0.91214	1282.864	1167.19
1.53951	3.49E-09	1.53951	604.7542	932.5233
1.0245	0.7221	1.0245	1740.243	1787.669
1.13527	0.05083	1.13527	1804.453	2043.358
-1.0426	0.64215	0.95914	6599.426	6415.887
-1.29526	0.00006	0.77205	4450.612	3401.801
1.09343	0.35799	1.09343	1758.999	1941.595
-1.01897	0.92918	0.98138	274.5831	271.765
1.08719	0.17007	1.08719	1396.016	1516.396
-1.031	0.5708	0.96993	4163.638	4031.904
1.04244	0.82398	1.04244	267.6369	278.7274
1.00619	0.95538	1.00619	2216.49	2185.509
1.03877	0.47616	1.03877	3819.059	3947.241
-1.04699	0.3932	0.95512	5410.637	5175.069
1.06891	0.51491	1.06891	831.6212	884.746
-1.0569	0.4084	0.94616	2084.903	1983.778
-1.02219	0.80253	0.97829	1012.653	995.3903

1.02743	0.88719	1.02743	345.2278	360.6959
1.09822	0.13341	1.09822	7425.62	8245.413
-1.01252	0.87308	0.98764	1350.227	1342.227
-1.01942	0.69731	0.98095	3209.823	3145.641
-1.13484	0.57407	0.88119	279.0869	247.7872
1.10876	0.08543	1.10876	1985.907	2208.803
-1.08813	0.69991	0.91901	302.9714	273.871
1.27191	0.02402	1.27191	534.0562	673.0773
-1.0198	0.86099	0.98059	2199.573	2192.313
-1.74475	0.00003	0.57315	2521.283	1438.314
1.03672	0.85578	1.03672	170.6198	176.258
-1.16369	0.5488	0.85934	234.5392	210.148
1.0349	0.5701	1.0349	1229.662	1271.844
1.02818	0.59913	1.02818	1146.325	1179.046
1.04306	0.70072	1.04306	4960.59	4987.558
-1.02215	0.86079	0.97833	317.0738	310.0924
1.1538	0.0258	1.1538	2038.698	2344.835
1.03473	0.65981	1.03473	951.3374	979.8735
-1.33455	0.0008	0.74932	1154.746	869.8341
-1.19713	0.08748	0.83533	813.7233	685.9457
-1.0984	0.74563	0.91041	203.6246	186.2445
-1.02133	0.87647	0.97912	414.8996	402.2642
1.00709	0.91756	1.00709	1352.777	1363.435
1.35583	0.00267	1.35583	504.7155	680.4545
-1.03739	0.84237	0.96396	371.6903	351.2954
-1.3126	0.10634	0.76184	304.9941	233.8937
-1.00469	0.98059	0.99533	214.432	213.4367
-1.08017	0.81117	0.92578	180.8201	166.6485
1.17891	0.41315	1.17891	326.0684	370.741
-1.01697	0.84832	0.98332	2046.863	2010.875
-1.04445	0.71881	0.95744	796.5397	773.3369
1.0395	0.69034	1.0395	417.8873	435.0793
1.05334	0.42995	1.05334	3015.756	3217.329
-1.17544	0.00664	0.85074	1659.864	1413.997
-1.17267	0.00087	0.85275	10398.28	8839.771
-1.27758	0.00501	0.78273	9082.88	6907.867
1.02784	0.66232	1.02784	1196.445	1229.985
1.0112	0.84551	1.0112	3880.639	3923.65
1.07533	0.79232	1.07533	175.3076	186.446
-1.00502	0.92105	0.99501	2744.58	2726.647
-1.71994	0.00006	0.58142	1159.21	677.5935
-1.07049	0.81321	0.93415	148.7566	138.9196
1.06667	0.34172	1.06667	1452.894	1552.211
1.19423	0.2046	1.19423	323.7187	384.8326
1.06854	0.81212	1.06854	168.6892	184.7693
-1.16751	0.70791	0.85652	148.9651	123.7142
-1.55374	0.00017	0.64361	4260.612	2675.093
-1.01815	0.86782	0.98217	775.1044	767.8847
-1.01543	0.7924	0.9848	3339.877	3294.695
1.02299	0.63758	1.02299	3219.62	3291.004
-1.02855	0.60476	0.97224	7004.398	6775.21
1.13244	0.14996	1.13244	518.133	584.3981

-1.01295	0.90983	0.98721	365.2773	362.333
1.00199	0.97492	1.00199	1330.402	1333.492
1.27734	0.00009	1.27734	1780.69	2266.872
1.02168	0.84456	1.02168	362.8756	370.122
1.23532	0.62575	1.23532	119.4681	150.4878
1.10958	0.14914	1.10958	992.5841	1095.549
-1.10032	0.06757	0.90883	12364.88	11267.03
1.04352	0.60953	1.04352	1227.878	1276.468
-1.02493	0.69724	0.97567	3584.29	3491.634
1.00144	0.98513	1.00144	591.6166	592.4784
1.06836	0.10825	1.06836	6100.932	6518.706
1.11668	0.38371	1.11668	511.6945	580.2796
-1.07328	0.11903	0.93173	894.8083	830.0281
1.05517	0.83508	1.05517	144.8921	153.5889
1.05011	0.59075	1.05011	522.9155	549.5454
1.01099	0.97755	1.01099	148.2997	146.2247
1.00368	0.97156	1.00368	478.6967	483.3445
1.28627	0.00008	1.28627	26831.94	34896.2
-1.00815	0.93672	0.99191	404.9315	401.4557
1.06614	0.23506	1.06614	2962.406	3143.141
-1.09868	0.38109	0.91019	959.7498	868.9767
1.15963	0.73855	1.15963	98.675	114.9995
-1.1263	0.36363	0.88786	831.1402	749.9929
1.05835	0.39648	1.05835	32472.37	34842.61
1.04044	0.78279	1.04044	453.6617	470.3164
-1.06448	0.65365	0.93942	439.3787	412.4427
-1.00079	0.98489	0.99922	10871.88	10869.12
1.05454	0.69858	1.05454	260.9146	274.3142
1.0756	0.27683	1.0756	728.6401	782.6966
1.06413	0.52436	1.06413	1230.547	1316.237
-1.17141	0.01928	0.85368	2252.034	1909.811
1.04461	0.50216	1.04461	1752.658	1833.652
1.02889	0.81217	1.02889	799.855	812.2454
1.32216	3.68E-11	1.32216	7304.72	9653.719
1.14344	0.22204	1.14344	2076.684	2385.793
-1.11906	0.55326	0.89361	313.3214	278.7979
1.05037	0.76126	1.05037	293.4399	309.328
1.03815	0.74842	1.03815	384.588	398.991
1.08809	0.22987	1.08809	1564.047	1693.797
-1.27243	0.57731	0.7859	144.0397	111.9328
1.06157	0.44854	1.06157	10483.26	11161.27
-1.02751	0.56692	0.97323	2288.217	2227.093
1.29579	0.00034	1.29579	1897.549	2486.618
-1.10379	0.75562	0.90597	198.5894	172.5127
-1.0621	0.72275	0.94153	380.1517	359.1292
-1.08205	0.61645	0.92417	486.0004	449.2625
1.09817	0.74177	1.09817	150.0104	163.7961
1.08219	0.28876	1.08219	1418.617	1541.926
1.10996	0.21583	1.10996	3030.379	3378.306
1.09868	0.46192	1.09868	331.9405	364.7562
1.01238	0.83313	1.01238	11467.18	11712.1
-1.09046	0.35386	0.91704	715.3474	658.1567

-1.01042	0.85928	0.98969	1346.638	1335.541
-1.073	0.3097	0.93197	5646.476	5215.619
-1.17175	0.00086	0.85343	2075.134	1771.068
1.01375	0.94829	1.01375	184.4934	185.3596
1.12348	0.26464	1.12348	446.7171	502.1929
-8.37198	1.02E-35	0.11945	9106.388	1018.073
1.42893	4.37E-13	1.42893	3936.856	5615.204
-1.00622	0.97037	0.99382	279.6307	274.7691
-1.06643	0.56561	0.93771	700.0437	663.8149
1.21958	0.02089	1.21958	2033.019	2445.066
-1.33746	4.05E-10	0.74769	4711.667	3519.237
1.19655	0.00074	1.19655	3239.46	3876.601
-1.00242	0.9745	0.99759	1146.214	1151.543
1.00708	0.92687	1.00708	665.971	668.7883
-1.01704	0.81032	0.98325	2390.215	2335.954
-1.10796	0.3242	0.90256	712.1431	648.1354
1.45813	0.00004	1.45813	649.6566	942.5219
-1.07535	0.28988	0.92993	8252.451	7655.041
1.07729	0.43465	1.07729	1978.292	2143.617
1.06313	0.16988	1.06313	5602.141	5943.266
1.07294	0.30905	1.07294	1336.606	1431.258
1.05816	0.78378	1.05816	171.0865	181.9195
-1.08607	0.22335	0.92075	1317.995	1217.731
1.40306	0.00165	1.40306	491.715	685.3185
-3.57084	2.07E-15	0.28005	2032.866	559.3908
1.19957	0.01074	1.19957	877.3491	1051.629
-1.20822	0.01086	0.82766	11777.3	9641.619
1.10375	0.44011	1.10375	599.4313	672.3272
1.00471	0.9283	1.00471	8470.289	8502.088
1.05263	0.76149	1.05263	280.9204	300.1653
-1.09204	0.30746	0.91572	1184.405	1084.794
-1.00515	0.95636	0.99488	643.9329	640.413
1.06	0.65352	1.06	392.5035	414.4554
-1.02715	0.68843	0.97357	2835.553	2756.91
1.01881	0.77304	1.01881	802.6826	818.536
-1.01344	0.83174	0.98674	778.6119	768.7814
-1.0891	0.32216	0.91819	1804.406	1658.782
1.53256	1.53E-06	1.53256	3649.983	5733.462
-1.06753	0.34744	0.93674	2247.106	2099.699
1.03796	0.55806	1.03796	1034.472	1074.752
1.20126	0.01463	1.20126	1002.4	1203.57
1.00772	0.91717	1.00772	6418.407	6545.937
-1.05024	0.65623	0.95216	318326.3	299594.1
1.02505	0.7435	1.02505	1131.623	1160.936
-1.1291	0.24115	0.88566	1836.909	1615.747
-1.04666	0.77535	0.95542	368.3304	350.9659
1.01407	0.83936	1.01407	2663.832	2672.897
-1.03444	0.54649	0.96671	7067.813	6760.122
1.10236	0.27405	1.10236	1493.615	1658.761
-1.03419	0.86927	0.96694	310.7408	301.6887
1.02315	0.79173	1.02315	545.1472	558.1711
-1.03777	0.44409	0.9636	2894.778	2788.376

-1.03455	0.74008	0.96661	763.5134	741.4002
-1.21682	0.73519	0.82181	105.3494	90.16667
-1.03771	0.48223	0.96366	1820.169	1754.488
-1.2898	0.01816	0.77531	531.8828	415.2223
1.07491	0.53359	1.07491	368.3997	394.7454
1.04968	0.54081	1.04968	1484.509	1554.934
-1.0151	0.7967	0.98512	7052.204	6907.7
-1.04773	0.55588	0.95445	548.1581	522.8778
1.20389	0.64538	1.20389	116.1112	133.6675
-1.04067	0.67895	0.96092	1108.729	1064.811
1.04806	0.44361	1.04806	2181.68	2287.842
-1.14839	0.03172	0.87078	2843.123	2455.117
1.02915	0.7064	1.02915	898.0834	927.307
-1.02936	0.9061	0.97148	234.7045	227.1954
-1.08942	0.51993	0.91792	363.1899	333.3755
-1.00317	0.95025	0.99684	3426.496	3411.155
1.05525	0.71641	1.05525	371.0468	386.7804
-1.00486	0.95092	0.99516	810.2336	809.3408
1.24491	0.27458	1.24491	235.8685	289.3712
-1.17717	0.04285	0.84949	3669.75	3091.407
1.09232	0.20203	1.09232	839.0864	915.9412
1.0946	0.29582	1.0946	3929.159	4364.408
1.07165	0.86252	1.07165	136.9147	151.1192
1.06187	0.55586	1.06187	470.9861	498.5165
-1.02083	0.90976	0.9796	235.1026	230.8615
-1.17408	0.06379	0.85173	760.478	649.6414
1.09238	0.0803	1.09238	2021.767	2209.36
-1.023	0.85369	0.97752	546.3154	537.8572
-1.0412	0.76907	0.96043	341.004	328.0247
-1.01524	0.84321	0.98499	1430.175	1413.939
-1.04438	0.39584	0.95751	6552.882	6266.335
-1.24798	0.46287	0.80129	190.2734	151.5313
-1.01775	0.86031	0.98256	791.4679	783.8487
-1.03626	0.5962	0.96501	1520.807	1475.267
1.03461	0.73389	1.03461	349.7105	362.0936
1.0074	0.87655	1.0074	4886.546	4921.415
-1.03787	0.44454	0.96351	5768.798	5555.085
1.16469	0.00312	1.16469	3026.368	3519.167
1.0037	0.96763	1.0037	1039.403	1034.637
-1.02587	0.61535	0.97478	1818.02	1772.88
1.0328	0.60861	1.0328	1180.224	1218.251
1.14464	0.34964	1.14464	1028.915	1172.458
-1.0538	0.75701	0.94895	791.7187	751.2986
1.1371	0.1209	1.1371	932.5532	1055.652
1.44942	0.00024	1.44942	775.8803	1119.395
1.00036	0.99636	1.00036	4222.287	4218.454
-1.02649	0.86595	0.97419	373.9165	371.2766
1.0375	0.79935	1.0375	287.0627	299.4987
-1.05257	0.59651	0.95006	613.9215	584.1164
1.09471	0.40452	1.09471	566.447	614.7411
-1.05997	0.29064	0.94342	930.8722	878.0828
1.29147	0.64653	1.29147	71.2691	90.29582

-1.11098	0.53827	0.90011	408.1191	365.1058
1.01995	0.90643	1.01995	265.6377	269.0695
1.11644	0.36377	1.11644	464.4883	518.5001
1.29994	0.33995	1.29994	200.1363	258.7837
-1.18694	0.1474	0.8425	1620.28	1350.042
-1.0547	0.61451	0.94814	739.0034	705.0996
-1.12641	0.54327	0.88777	357.7544	310.8717
-1.21575	0.10108	0.82254	1940.005	1566.124
1.11542	0.74617	1.11542	156.4333	177.5612
-1.03367	0.929	0.96743	142.012	137.8131
1.00874	0.89797	1.00874	1010.405	1021.815
1.10375	0.29986	1.10375	1858.645	2026.84
-1.05798	0.45346	0.9452	1962.171	1850.993
-1.36475	5.44E-09	0.73274	5226.701	3813.237
-1.06462	0.27186	0.9393	1830.484	1719.93
-1.04567	0.31448	0.95632	2375.917	2271.098
-1.29302	0.14774	0.77338	615.4863	482.9564
-1.09107	0.36818	0.91653	1004.564	925.4004
-1.52491	0.00009	0.65577	1054.242	696.0762
1.01622	0.96861	1.01622	115.9765	115.4423
-1.10909	0.19641	0.90164	712.4645	643.1448
1.16951	0.02393	1.16951	17864.34	21234.26
1.05389	0.64542	1.05389	340.2164	359.3044
1.0287	0.73317	1.0287	1956.266	2015.641
1.06075	0.59368	1.06075	9721.415	9997.627
1.81269	0.00078	1.81269	739.0469	1312.155
-1.36563	0.00019	0.73226	10111.61	7268.418
-1.02627	0.79798	0.97441	653.3262	640.9678
-1.01986	0.68253	0.98053	4091.742	4014.219
-1.25097	0.17235	0.79938	467.2145	383.3655
-1.02443	0.86163	0.97615	416.355	407.4967
-1.13546	0.38104	0.8807	444.0031	390.0625
1.16694	0.00563	1.16694	5108.664	5997.329
-1.09274	0.26665	0.91513	3311.158	3005.995
1.24826	0.00225	1.24826	6452.183	8161.744
1.05698	0.39136	1.05698	4470.483	4689.523
-1.01328	0.8013	0.98689	1705.323	1684.262
1.19043	0.56649	1.19043	115.6273	137.0682
-1.20002	0.00004	0.83332	7651.378	6363.333
-1.27039	0.0003	0.78716	7571.304	5893.894
-1.11567	0.42176	0.89632	444.1782	397.8133
-1.03381	0.77072	0.96729	643.8539	630.2676
1.00649	0.91576	1.00649	2646.017	2664.8
-1.35933	0.10604	0.73566	806.9014	611.9608
1.04397	0.6651	1.04397	9696.446	9922.223
-1.41907	2.01E-06	0.70469	4853.465	3472.449
-1.02458	0.79111	0.97601	633.5748	619.1774
1.46815	0.36958	1.46815	84.39896	123.6437
-1.10044	0.15632	0.90873	1117.816	1019.457
-1.0764	0.614	0.92902	373.1659	346.2797
-1.0851	0.81454	0.92157	168.3158	157.8003
-1.00131	0.99178	0.9987	418.527	420.9915

-1.09842	0.47241	0.91039	366.3524	332.0917
-1.02623	0.88714	0.97444	270.3444	263.277
-1.58457	4.57E-10	0.63109	5593.816	3481.476
-1.0175	0.97435	0.9828	94.92806	94.11679
-1.12082	0.01352	0.8922	11380.9	10131.78
1.06099	0.30677	1.06099	2171.782	2310.916
1.04282	0.494	1.04282	12054.03	12430.84
1.18871	0.00214	1.18871	1696.92	2016.036
1.17708	0.14259	1.17708	393.7642	461.4034
-1.12148	0.6394	0.89168	260.7332	229.6177
-1.01929	0.87841	0.98108	405.6082	401.8014
-1.0116	0.85268	0.98853	3499.849	3455.529
1.47056	4.61E-09	1.47056	1159.97	1704.425
-1.04236	0.69232	0.95936	2212.44	2122.94
1.27187	8.35E-06	1.27187	1635.647	2081.005
1.01892	0.71566	1.01892	3677.131	3754.522
-1.17028	0.30195	0.85449	607.796	527.5337
-1.03658	0.70037	0.96471	12417.62	11713.51
1.02906	0.81236	1.02906	2258.501	2334.56
-1.07571	0.69931	0.92962	328.9515	307.8029
-1.3314	0.00396	0.75109	3619.034	2677.389
-1.1707	0.00094	0.85419	4077.011	3490.172
-1.03104	0.86245	0.96989	301.5247	291.7724
-1.31019	2.37E-07	0.76325	6158.413	4721.316
1.0795	0.4353	1.0795	828.6472	886.7749
-1.00088	0.99447	0.99912	329.8278	329.9392
-2.8614	1.74E-18	0.34948	2328.288	798.5869
-1.4482	0.01233	0.69051	876.9257	616.0378
1.0173	0.85381	1.0173	783.3483	801.9619
-1.09879	0.23683	0.91009	855.1199	781.0132
-1.04635	0.4306	0.9557	1174.697	1123
1.03443	0.59757	1.03443	1740.122	1806.265
1.10624	0.28195	1.10624	583.4602	641.0568
-1.01307	0.83508	0.9871	1903.49	1886.575
-1.06913	0.79542	0.93534	174.7369	164.8943
1.0552	0.53638	1.0552	3055.801	3229.764
-1.0342	0.69656	0.96693	969.1276	938.2556
1.224	0.65966	1.224	102.8891	124.0095
1.05257	0.46393	1.05257	1501.912	1582.738
1.32017	0.00193	1.32017	4205.511	5486.399
1.50472	3.58E-09	1.50472	5370.566	8189.651
1.02185	0.84357	1.02185	1565.272	1581.062
-1.01942	0.71019	0.98095	1500.72	1471.999
-1.07839	0.65542	0.92731	268.8137	250.4178
1.00655	0.91496	1.00655	4521.674	4544.459
-1.02811	0.63616	0.97266	1216.793	1183.729
-1.01473	0.85263	0.98548	594.5612	586.1903
-1.0789	0.27591	0.92687	1428.822	1325.626
-1.02834	0.68643	0.97244	1802.971	1752.212
-1.15223	0.24303	0.86788	1793.869	1545.526
-1.0175	0.86942	0.9828	1660.402	1646.996
-1.11348	0.22835	0.89808	9363.487	8274.265

-1.04014	0.61274	0.96141	790.3128	762.0523
-1.18584	0.02176	0.84328	5376.067	4500.666
-1.02574	0.65152	0.97491	1177.023	1148.968
1.1009	0.36308	1.1009	507.8549	557.1953
1.07933	0.50332	1.07933	2945.208	3229.302
1.01986	0.74378	1.01986	1026.231	1046.876
-1.26022	0.04157	0.79351	1369.025	1081.031
-1.00859	0.88551	0.99148	1193.946	1183.779
1.3043	0.14505	1.3043	332.6279	449.0314
-1.26374	0.07613	0.7913	834.0304	669.2328
1.14937	0.05306	1.14937	4613.877	5241.615
1.36821	1.79E-12	1.36821	23704.47	32371.94
1.09561	0.40962	1.09561	463.7481	512.0062
1.0614	0.67988	1.0614	341.4667	363.5744
-1.01837	0.93833	0.98196	246.8592	244.2051
1.30373	0.00029	1.30373	1076.977	1404.125
1.09704	0.70861	1.09704	140.192	152.6443
-1.02075	0.76604	0.97968	1862.271	1828.719
-1.10587	0.30333	0.90426	2780.615	2481.81
-1.05588	0.66485	0.94708	434.2881	408.9479
-1.15703	0.24444	0.86428	4502.53	3781.091
-1.1611	0.2375	0.86125	916.302	785.9428
-1.42365	0.00032	0.70242	1978.171	1382.379
1.0681	0.24369	1.0681	3583.498	3827.898
-1.11934	0.65367	0.89338	243.0058	216.5033
1.21504	0.04044	1.21504	1128.136	1370.759
-1.25112	0.00455	0.79928	1114.437	891.1706
-1.08086	0.78473	0.92519	201.8073	184.6713
1.16491	0.02539	1.16491	662.6488	773.6215
-1.57719	0.27628	0.63404	158.4452	100.3337
-1.14047	0.26204	0.87683	607.5377	538.8648
-1.03613	0.81578	0.96513	417.1992	402.592
1.05796	0.47514	1.05796	1419.437	1502.778
-1.00475	0.99123	0.99527	125.0297	125.6733
-1.03397	0.61294	0.96715	2467.536	2394.693
-1.03006	0.90676	0.97081	217.7527	211.813
1.20853	0.25408	1.20853	384.8162	450.1971
-1.03266	0.75307	0.96838	768.2007	750.6287
1.00034	0.99711	1.00034	5589.339	5489.788
-1.26583	0.23269	0.78999	368.1395	301.1186
-1.01606	0.81934	0.98419	1445.465	1420.643
-1.08139	0.2789	0.92473	1190.849	1100.985
1.83854	2.96E-06	1.83854	34603.6	66691.13
-1.10397	0.83932	0.90582	119.3811	106.6036
1.21097	0.00633	1.21097	3354.302	4060.38
-1.10736	0.91443	0.90305	57.86889	51.60902
-1.06634	0.44815	0.93779	3194.465	2967.526
-1.06003	0.20321	0.94337	30262.48	28624.05
1.12772	0.53864	1.12772	242.695	278.494
1.0112	0.84625	1.0112	1496.826	1513.244
1.10114	0.0714	1.10114	1106.356	1217.623
-1.21619	0.08112	0.82224	4854.722	3897.405

-1.04115	0.65195	0.96047	6335.379	5976.409
1.0765	0.16425	1.0765	9674.392	10473.43
-1.81238	2.39E-26	0.55176	28017.34	15364.63
-1.12326	0.54288	0.89027	390.0507	333.9225
-1.06886	0.83607	0.93557	180.1004	165.211
1.00435	0.92948	1.00435	4923.906	4969.346
-1.08872	0.91945	0.91851	63.80249	58.52969
1.0212	0.72517	1.0212	3259.075	3307.989
1.06411	0.34072	1.06411	1129.875	1199.96
2.17639	4.20E-45	2.17639	1535.566	3345.895
-1.09022	0.23827	0.91724	3470.181	3139.653
-1.01622	0.78962	0.98404	1661.899	1636.307
-1.07689	0.1026	0.9286	6958.099	6449.218
-1.06411	0.30266	0.93975	2861.788	2682.941
1	1	1	22.36023	22.71996
-1.01749	0.86043	0.98281	631.2007	623.9184
2.16837	1.10E-13	2.16837	491.4359	1059.643
1.09819	0.11912	1.09819	3316.141	3655.392
-1.0336	0.67458	0.96749	3687.209	3661.742
-1.20441	0.31019	0.83028	421.2911	341.0766
1.04328	0.48938	1.04328	2136.397	2232.472
-1.76732	2.80E-06	0.56583	2239.276	1270.65
1.33336	0.05242	1.33336	355.0974	468.0742
1.13066	0.34767	1.13066	508.0079	566.8953
-1.0568	0.36952	0.94626	1852.117	1749.859
1.41484	0.01152	1.41484	336.3602	469.6411
1.09562	0.39	1.09562	375.7513	410.4171
1.15646	0.23024	1.15646	571.5659	651.9549
1.03309	0.72446	1.03309	1096.918	1134.279
-1.23944	0.07774	0.80682	7694.648	5966.621
1.09052	0.30624	1.09052	693.042	753.1828
1.15252	0.04982	1.15252	2298.848	2678.347
1.03724	0.72644	1.03724	2097.407	2190.077
1.00256	0.98244	1.00256	484.0718	485.215
1.63972	0.00162	1.63972	371.8282	593.7787
1.24445	0.01377	1.24445	1603.428	1993.796
-1.02696	0.66364	0.97375	1294.245	1264.87
-1.36367	0.00684	0.73331	1273.252	932.0005
1.15041	0.09039	1.15041	6846.927	7747.926
-1.07454	0.07499	0.93063	11640.58	10833.33
-1.13411	0.10499	0.88174	3231.909	2811.854
-1.14989	0.07533	0.86964	1207.474	1051.576
-1.58509	0.00002	0.63088	1594.474	997.8528
-1.01256	0.86726	0.98759	563.0868	556.8351
1.23105	0.49638	1.23105	218.0581	273.8293
-1.13229	0.29606	0.88316	1984.834	1736.831
1.02684	0.57858	1.02684	5830.853	6002.009
-1.08113	0.38166	0.92496	682.3276	631.7809
-1.0215	0.91886	0.97895	243.4841	238.9536
1.04083	0.55838	1.04083	640.1534	666.6571
-1.16766	0.1036	0.85641	971.7772	836.8069
-1.11831	0.78863	0.89421	142.488	125.273

2.66465	1.24E-15	2.66465	69217.69	192914
1.07163	0.50264	1.07163	2810.965	3081.92
-1.02212	0.84033	0.97835	953.0413	939.049
-1.00238	0.97202	0.99763	1088.309	1085.423
-1.14375	0.13567	0.87431	2724.199	2361.771
1.00693	0.91103	1.00693	731.3554	736.0806
-1.01111	0.82285	0.98901	2521.728	2493.112
1.34647	7.18E-08	1.34647	2031.003	2727.358
-1.01193	0.92399	0.98821	429.0439	424.8191
-1.18455	0.12365	0.8442	3354.478	2764.989
-1.02478	0.92192	0.97582	206.9594	201.0335
-1.05978	0.75855	0.94359	253.6083	237.3186
-1.36494	0.74684	0.73263	65.80527	46.6284
1.03969	0.80757	1.03969	238.6233	249.27
1.04629	0.40605	1.04629	5143.535	5417.575
1.03778	0.57031	1.03778	2389.115	2468.687
-1.06768	0.53865	0.93661	2132.912	1964.688
-1.00644	0.93259	0.9936	1737.069	1720.12
-1.9648	3.69E-07	0.50896	1290.568	660.9368
-1.24028	0.25013	0.80627	522.2896	407.8853
-1.04569	0.54201	0.95631	1396.959	1347.631
1.03388	0.78851	1.03388	342.183	355.4949
-1.24018	0.00925	0.80634	4506.09	3578.75
1.02964	0.70318	1.02964	899.9182	931.949
1.03098	0.62062	1.03098	4062.9	4215.963
-1.09072	0.89307	0.91683	82.60192	74.55164
-1.08065	0.26469	0.92537	2430.085	2271.459
-1.01793	0.81263	0.98239	1055.732	1040.826
1.23118	0.02409	1.23118	1046.092	1289.873
1.04699	0.43638	1.04699	8478.979	8787.839
1.0351	0.51533	1.0351	1571.501	1626.858
-1.19219	0.07508	0.83879	26891.86	21804.42
1.00073	0.99564	1.00073	406.5519	411.3373
-1.01912	0.66159	0.98124	8162.538	7995.97
-1.17715	0.38482	0.84951	393.9902	348.8298
-1.06843	0.71389	0.93595	438.1491	408.3399
-1.01642	0.92003	0.98384	352.6371	347.7239
1.02205	0.69524	1.02205	10124.9	10418.58
1.07362	0.64834	1.07362	233.1695	250.0197
-1.01763	0.75185	0.98268	4515.973	4417.654
-1.00961	0.87476	0.99048	704.1217	697.3209
1.03496	0.82515	1.03496	427.2109	441.7469
-1.03332	0.79548	0.96775	483.5865	470.4493
-1.01792	0.88561	0.9824	1986.238	1951.277
-1.07604	0.32526	0.92933	1233.305	1146.731
1.08852	0.33187	1.08852	1051.321	1146.884
-1.04292	0.46811	0.95885	15784.77	15255.1
-1.05895	0.66704	0.94433	572.4244	541.0812
-1.07295	0.22694	0.93201	1896.679	1766.308
1.14824	0.00442	1.14824	5558.337	6367.23
-1.04783	0.9051	0.95435	121.3498	115.5278
-1.01525	0.91686	0.98498	470.249	470.9282

-1.14501	0.5264	0.87335	242.3886	214.2686
-1.02597	0.9117	0.97469	223.3321	217.8097
1.03498	0.51117	1.03498	2501.202	2594.278
-1.05787	0.35166	0.94529	3038.75	2864.949
-1.00355	0.9481	0.99646	3546.422	3525.795
1.44971	3.07E-08	1.44971	1621.001	2362.107
-1.07208	0.42163	0.93277	1781.02	1649.146
1.17262	0.00418	1.17262	4092.676	4779.118
1.14423	0.40432	1.14423	263.856	303.1555
1.12683	0.14672	1.12683	1214.141	1372.386
-1.06312	0.38108	0.94063	2450.307	2294.262
-1.06073	0.84876	0.94275	187.4195	178.128
1.16475	0.04465	1.16475	3345.375	3849.054
1.1132	0.02436	1.1132	2779.112	3093.644
1.1209	0.35997	1.1209	343.7653	387.752
1.12908	0.31185	1.12908	396.3361	444.3508
-1.37463	0.00988	0.72747	1977.693	1421.052
-1.10628	0.41704	0.90393	508.6408	465.7465
-1.00441	0.93268	0.99561	4838.459	4802.467
-1.03009	0.88272	0.97079	288.0941	281.6545
-1.19652	0.27023	0.83576	496.3118	414.4071
1.19972	0.01187	1.19972	2064.288	2456.308
1.07899	0.79633	1.07899	123.2778	134.4047
1.0005	0.99241	1.0005	2625.597	2624.974
-1.2997	0.05303	0.76941	775.5855	606.7769
1.01719	0.80287	1.01719	9006.212	9012.807
-1.02084	0.80598	0.97958	762.2954	750.3746
-1.01226	0.99134	0.98789	44.24617	43.41652
-1.0441	0.43613	0.95776	3031.41	2905.022
2.56169	1.43E-19	2.56169	2839.163	7365.954
-1.09737	0.33866	0.91127	917.6454	840.6367
1	1	1	23.50069	21.3592
-1.10625	0.23878	0.90395	1026.69	930.7318
-1.06264	0.93209	0.94105	75.34901	71.00056
1.13559	0.11479	1.13559	653.4079	740.5324
1.17969	0.00037	1.17969	5887.211	6928.912
1.02203	0.96186	1.02203	124.326	123.5076
-1.00673	0.94007	0.99331	724.3575	723.217
1.1797	0.0434	1.1797	5163.96	6194.682
1.05469	0.68329	1.05469	368.6014	386.3037
-1.07464	0.41647	0.93054	1061.075	992.1686
-1.58593	1.69E-11	0.63054	3290.485	2067.882
1.02347	0.97175	1.02347	79.07224	81.5018
1.04431	0.49304	1.04431	2765.056	2871.289
-1.01686	0.87568	0.98342	1705.074	1659.401
-1.54569	0.06211	0.64696	292.1262	194.5081
1.02386	0.86223	1.02386	487.3433	507.8204
-1.17419	0.53297	0.85165	240.2963	204.4297
1.0108	0.94683	1.0108	343.8241	348.0419
-1.13866	0.40098	0.87823	422.3885	373.0122
1.23808	0.23143	1.23808	243.6021	296.982
1.02368	0.74906	1.02368	1652.436	1701.708

1.19509	0.01747	1.19509	1190.138	1422.861
-1.01468	0.83957	0.98553	2841.857	2793.974
-1.07027	0.60755	0.93434	487.7534	455.4238
1.04497	0.34807	1.04497	2339.107	2444.96
1.07011	0.33467	1.07011	717.512	766.8821
-1.01085	0.9046	0.98927	2354.311	2312.073
1.06177	0.52264	1.06177	661.9064	707.2333
-1.10516	0.37854	0.90485	701.2155	640.7079
1.02263	0.79856	1.02263	815.7239	829.2625
1.05644	0.37807	1.05644	1450.145	1525.596
1.11092	0.05561	1.11092	2271.008	2521.244
-1.10216	0.13219	0.90731	1361.289	1236.157
-2.31021	0.0203	0.43286	890.8303	381.306
-1.00709	0.95554	0.99296	407.8595	409.1521
-1.08819	0.66091	0.91896	320.7921	295.8534
-1.02014	0.89753	0.98025	325.6114	319.2299
-1.00612	0.95165	0.99391	349.4738	347.3626
-1.11508	0.78701	0.89679	116.9486	104.8598
-1.42924	0.00153	0.69967	2151.804	1486.55
-1.11707	0.25129	0.8952	67162.45	61198.41
1.0205	0.82548	1.0205	581.7553	590.2964
1.00043	0.99538	1.00043	698.4256	698.7921
-1.15053	0.13889	0.86917	5895.741	4988.479
-1.24399	0.57717	0.80387	133.5966	108.2249
-1.08949	0.04141	0.91786	8274.886	7600.432
1.00451	0.93839	1.00451	2909.238	2925.241
1.03847	0.3713	1.03847	3896.905	4046.64
1.12555	0.1497	1.12555	786.5107	882.3337
1.20582	0.02427	1.20582	735.796	882.8016
-1.07392	0.55244	0.93117	674.2245	636.3745
-1.21529	0.00294	0.82285	1185.639	975.9463
-1.12738	0.33161	0.88701	540.9917	485.9847
-1.00725	0.93442	0.99281	740.965	739.7142
1.19159	0.0226	1.19159	1393.203	1661.271
1.01127	0.94091	1.01127	311.7338	311.9334
1.03277	0.66341	1.03277	2649.779	2737.557
1.07086	0.42637	1.07086	575.5614	614.4623
-1.02301	0.88969	0.9775	262.6965	257.4535
-1.04062	0.36407	0.96097	13234.58	12726.31
1.00361	0.94214	1.00361	1649.111	1655.308
-1.09543	0.40085	0.91289	2570.975	2307
1.02748	0.87632	1.02748	272.994	283.6796
1.00991	0.90605	1.00991	1520.39	1546.599
1.13699	0.12198	1.13699	4334.717	4878.064
1.02194	0.65066	1.02194	1880.984	1922.366
-1.58532	0.0006	0.63079	3598.179	2148.377
1.06531	0.64525	1.06531	316.183	334.0154
-1.05734	0.55179	0.94577	877.5523	830.1655
1.18173	0.25551	1.18173	285.1476	335.8345
1.09849	0.56282	1.09849	263.1613	287.0808
-1.04436	0.58971	0.95752	894.1451	854.4471
1.00757	0.8661	1.00757	3618.34	3645.771

1.27882	0.00028	1.27882	1121.968	1435.119
1.00263	0.99158	1.00263	247.1332	243.7121
-1.02826	0.88032	0.97251	353.9793	354.377
-1.03932	0.69294	0.96217	2856.07	2742.478
1.10182	0.33212	1.10182	621.9389	680.1028
1.06062	0.9101	1.06062	103.5956	104.6851
-1.03677	0.79302	0.96453	398.6625	384.9194
1.01526	0.80138	1.01526	1883.188	1912.975
1.01065	0.91592	1.01065	1627.002	1644.882
1.21911	0.05046	1.21911	997.7605	1204.36
-1.15231	0.34123	0.86783	439.0678	379.9128
1.04264	0.87659	1.04264	180.5522	184.9493
1.03336	0.57678	1.03336	9292.049	9504.521
1.08903	0.78765	1.08903	130.4787	143.9825
-1.03086	0.70703	0.97006	1267.326	1227.375
-1.05128	0.43677	0.95123	22820.16	21342.1
1.0236	0.91579	1.0236	155.0301	158.5536
-1.01033	0.89266	0.98977	756.9873	751.8209
-1.01249	0.81742	0.98767	4637.672	4596.575
1.00003	0.99966	1.00003	2111.233	2111.114
-1.02372	0.68729	0.97683	1867.677	1824.07
-1.04324	0.73802	0.95856	390.46	374.2683
-1.26408	0.01388	0.79109	23558.04	18197.36
1.29166	0.00014	1.29166	905.3232	1167.324
-1.03326	0.75105	0.96781	6555.854	6158.703
-1.06534	0.53232	0.93867	552.064	521.5277
1.09345	0.17001	1.09345	4353.065	4767.863
-1.44624	0.00011	0.69145	93270.08	65634.41
-1.03983	0.50872	0.9617	2050.464	1972.501
-1.01316	0.97641	0.98701	130.0161	124.4112
1.03794	0.41908	1.03794	8523.469	8837.93
1.27905	0.00016	1.27905	870.6639	1111.122
-1.01981	0.92121	0.98058	253.17	247.7202
1.02783	0.69276	1.02783	2348.972	2412.445
1.35811	0.01951	1.35811	339.8121	456.6035
1.0152	0.86968	1.0152	762.7404	778.0569
1.06139	0.16833	1.06139	2722.993	2890.123
-1.16781	0.27177	0.8563	1129.013	968.8503
-1.02745	0.75472	0.97328	658.3771	643.1744
1.01068	0.95401	1.01068	266.748	266.6783
1.01475	0.86007	1.01475	725.256	732.7421
-1.09962	0.54854	0.9094	293.3072	267.6616
1.01801	0.67277	1.01801	3730.371	3797.972
-1.14003	0.56486	0.87717	281.0917	242.6729
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1.00017	0.99842	1.00017	575.1047	575.7137
-1.11046	0.26879	0.90053	1603.803	1448.533
1.05029	0.73664	1.05029	326.1308	342.6376
-1.08387	0.51603	0.92262	495.2613	462.0731
-1.69316	2.63E-22	0.59061	5866.75	3482.518
-1.0601	0.58112	0.94331	600.7598	571.2954
1.42377	0.00799	1.42377	768.3471	1085.823

1.00377	0.94466	1.00377	3113.118	3110.566
1.0073	0.93629	1.0073	1252.039	1263.148
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1.03379	0.9013	1.03379	196.0499	201.6009
-1.04609	0.69275	0.95594	473.7465	452.9163
-1.13105	0.29922	0.88414	1144.922	1014.022
1	1	1	23.42702	22.98624
1.17053	0.00035	1.17053	4070.951	4760.921
-1.23689	0.09632	0.80848	5047.824	3983.843
1.18737	0.06786	1.18737	2177.304	2620.632
-1.14975	0.22889	0.86975	539.9263	469.401
1.05341	0.35044	1.05341	1820.634	1916.396
1.02651	0.90086	1.02651	217.4329	223.0984
-1.05984	0.29991	0.94354	1792.367	1690.472
-1.20587	0.02612	0.82928	2916.048	2388.421
-1.05324	0.63577	0.94945	865.2569	828.6693
-1.17349	0.09079	0.85216	3557.85	2958.826
-1.10106	0.23316	0.90822	17149.2	15377.44
1.03594	0.65059	1.03594	3546.289	3614.198
1.07357	0.47069	1.07357	473.8151	509.1567
1.00273	0.97297	1.00273	734.4475	738.6655
-1.39202	0.00287	0.71838	8345.075	5843.021
1.42082	0.00103	1.42082	358.6835	511.2955
-1.08271	0.36162	0.92361	906.6271	840.1384
-1.11461	0.18161	0.89718	776.4868	699.4788
1.05096	0.5249	1.05096	563.4359	590.599
-1.11394	0.01584	0.89772	5497.257	4928.878
-1.03843	0.75764	0.963	339.1574	328.2966
-1.0953	0.62824	0.91299	305.4518	278.0967
-1.0973	0.04838	0.91133	5142.903	4677.359
1.20652	0.00823	1.20652	1175.583	1418.441
1.03785	0.6015	1.03785	931.7221	963.8046
-1.17064	0.12218	0.85424	3134.982	2602.312
1.01589	0.80967	1.01589	1566.225	1596.134
-1.06512	0.45309	0.93886	727.1328	681.1544
1.06806	0.48933	1.06806	665.7336	716.4042
1.2378	0.03833	1.2378	1153.669	1422.313
-1.11732	0.77865	0.895	130.4435	116.0122
-1.02788	0.77392	0.97287	898.7372	866.3618
-1.16799	0.26665	0.85617	481.2752	405.9266
-1.02203	0.698	0.97844	1197.958	1170.182
1.34763	0.41317	1.34763	75.18787	101.4896
-1.05951	0.40227	0.94383	2828.391	2670.895
-1.01016	0.90307	0.98994	695.5717	686.2147
1.26928	0.04098	1.26928	1962.279	2405.42
-1.05523	0.59711	0.94766	489.9876	464.403
-1.1565	0.59033	0.86468	166.4485	145.665
1.45986	0.74754	1.45986	34.67359	47.23316
1.15498	0.1032	1.15498	956.0031	1101.103
-1.04504	0.66751	0.9569	1329.137	1284.66
-1.00799	0.90881	0.99207	11059.24	10842.07
1.13183	0.36874	1.13183	330.4086	370.7702

1.00222	0.96969	1.00222	1117.324	1120.584
1.06651	0.31606	1.06651	1267.061	1351.568
1.03654	0.77054	1.03654	364.491	377.813
-1.71325	1.88E-20	0.58368	8709.16	5030.987
-1.00144	0.99515	0.99856	221.4845	216.3123
2.09683	9.54E-06	2.09683	462.6578	953.932
1.03283	0.54262	1.03283	1983.891	2048.708
1.15088	0.08467	1.15088	1916.41	2222.828
-1.16628	0.04623	0.85743	903.7716	772.8769
1.29269	0.00017	1.29269	917.1851	1183.219
1.12645	0.02622	1.12645	6723.333	7522.133
1.09716	0.3152	1.09716	1893.579	2044.781
-1.1725	0.17651	0.85288	1307.035	1117.078
1.23253	0.00003	1.23253	5139.198	6362.392
-1.16462	0.00011	0.85865	373.3571	320.9715
1.16829	0.33961	1.16829	241.0681	281.6441
-1.06114	0.91968	0.94239	95.51667	88.40321
-1.37753	0.00035	0.72594	3646.09	2623.35
-1.03591	0.78006	0.96534	417.6202	403.0391
1.15939	0.01707	1.15939	4758.387	5555.711
1.07605	0.60256	1.07605	857.9025	913.1561
-1.02861	0.85072	0.97219	470.9821	459.9499
1.13128	0.56457	1.13128	168.753	189.4861
1.24054	0.00671	1.24054	827.0824	1019.768
1.04452	0.42614	1.04452	2794.969	2918.148
1.35678	0.00027	1.35678	2347.212	3204.394
-1.11973	0.59889	0.89307	301.5042	272.8602
-1.00234	0.97762	0.99767	760.8146	757.4353
-1.26658	0.41267	0.78953	197.6285	160.5421
-1.00767	0.93643	0.99239	3340.85	3250.238
-1.02666	0.66321	0.97403	4167.394	4099.867
-1.03443	0.74789	0.96672	865.8699	843.6285
-1.00597	0.91592	0.99406	2198.736	2179.64
1.06131	0.45142	1.06131	2141.365	2268.984
-1.00042	0.99808	0.99958	311.4352	314.9039
1.03873	0.54521	1.03873	2045.21	2123.671
-1.0716	0.12957	0.93319	2083.841	1944.608
1.02557	0.72867	1.02557	948.6029	973.9288
-1.48931	3.40E-10	0.67145	2834.33	1911.633
1.1314	0.02744	1.1314	20215.18	23069.37
-1.18094	0.86021	0.84678	60.4873	51.66664
1.24426	0.00227	1.24426	1598.378	1987.624
-1.03052	0.58446	0.97038	7054.14	6893.397
-1.0173	0.74245	0.98299	6501.53	6366.051
-1.0203	0.83416	0.9801	859.1007	843.6499
-1.03887	0.49747	0.96259	5615.681	5442.23
-1.02451	0.60429	0.97608	2335.744	2279.196
1.0642	0.86097	1.0642	123.6112	135.496
1.0081	0.90783	1.0081	1299.421	1310.328
-1.03161	0.96142	0.96936	66.01033	63.92327
-1.00558	0.92288	0.99445	992.3054	986.0952
-1.195	0.00066	0.83682	3826.349	3189.347

-1.13008	0.00751	0.88489	3170.698	2804.362
-1.50935	0.00488	0.66254	641.4324	434.6046
-1.01739	0.93543	0.98291	240.2507	235.4396
-1.01666	0.75403	0.98361	2666.959	2624.201
-1.14369	0.02452	0.87436	959.9146	838.9576
-1.16255	0.1524	0.86018	3728.075	3116.729
-1.06847	0.70477	0.93592	357.4443	336.5077
-1.45994	5.64E-16	0.68496	3610.377	2471.254
-1.41149	1.16E-06	0.70847	1055.543	747.6452
-1.13455	0.5561	0.88141	308.6081	268.573
1.35313	0.02728	1.35313	621.9963	828.5577
1.22379	0.04166	1.22379	1308.49	1613.243
1.01346	0.86616	1.01346	1102.56	1116.164
-1.18843	0.01143	0.84144	109055.3	93189.56
1.02988	0.72192	1.02988	1318.793	1361.137
-1.16304	0.64336	0.85981	198.0071	164.7169
1.03313	0.73714	1.03313	568.0609	588.7192
1.21954	0.32463	1.21954	254.2998	306.5296
-1.01919	0.75772	0.98117	6382.233	6212.515
-1.00129	0.99267	0.99871	414.9852	416.3267
-1.02376	0.68995	0.97679	1325.692	1291.316
1.08233	0.48371	1.08233	1970.723	2123.836
-1.00141	0.98316	0.99859	25927.84	26183.48
1.01034	0.97696	1.01034	140.8219	135.433
1.25692	0.06689	1.25692	480.7853	595.7824
-1.12906	0.2256	0.88569	581.8621	517.0471
1.07775	0.49659	1.07775	894.3348	971.3389
-1.07296	0.65277	0.932	258.2267	241.2938
1.03721	0.708	1.03721	11660.08	11711.22
-1.14811	0.01803	0.871	1470.852	1281.599
-1.19141	0.84176	0.83934	55.22344	46.46628
-1.04793	0.74113	0.95426	785.7355	762.5038
-1.01564	0.78179	0.9846	997.0279	981.8247
-1.03174	0.66097	0.96924	827.419	799.4992
1.00877	0.89112	1.00877	1155.113	1160.784
1.00582	0.9158	1.00582	4456.541	4480.293
-1.0463	0.82567	0.95575	279.5605	259.9562
-1.11622	0.53211	0.89588	410.3145	363.3342
-1.00849	0.9075	0.99158	2543.231	2523.151
-1.04548	0.49867	0.9565	2831.01	2704.195
1.04271	0.63313	1.04271	1085.219	1130.684
1.13042	0.19046	1.13042	746.5302	837.225
-1.0565	0.55684	0.94652	628.8611	599.3919
-1.02234	0.84113	0.97815	520.8586	507.1068
1.15049	0.71541	1.15049	117.9428	131.0994
1.05859	0.39445	1.05859	1204.851	1273.391
1.23714	0.04107	1.23714	3490.625	4238.279
-1.26475	0.13369	0.79067	3485.567	2682.635
1.04377	0.94456	1.04377	81.37234	86.40791
-1.14271	0.44919	0.87511	560.1549	510.5874
1.06518	0.29868	1.06518	1532.455	1634.073
1.04017	0.50354	1.04017	21409.45	22145.41

-1.0416	0.68322	0.96006	1238.823	1173.355
1.13147	0.05954	1.13147	2839.306	3220.973
1.06928	0.35025	1.06928	816.3524	874.1786
1.01601	0.88106	1.01601	539.1367	543.8404
-1.0008	0.99006	0.9992	1367.277	1368.842
-1.1736	0.08746	0.85208	1319.774	1136.36
-1.06172	0.59711	0.94186	421.6993	395.2286
1.06811	0.64963	1.06811	475.7126	508.5375
1.07805	0.55749	1.07805	423.5588	451.082
-1.03163	0.68038	0.96934	3015.925	2892.279
1.07663	0.33363	1.07663	706.4329	757.9122
-1.01047	0.84719	0.98964	4087.638	4029.354
1.29765	2.00E-06	1.29765	1159.085	1504.129
1.05982	0.85971	1.05982	134.2228	141.9126
1.12307	0.04873	1.12307	1967.791	2217.615
1.06133	0.65281	1.06133	357.3389	375.7113
-1.11943	0.31713	0.89331	494.5457	441.6254
-1.10512	0.03498	0.90488	13158.78	11939.21
1.03454	0.74379	1.03454	433.6185	446.5745
-1.14297	0.57725	0.87491	272.2228	236.9067
1.05765	0.6547	1.05765	406.2637	433.886
-1.2177	0.00015	0.82122	2373.12	1950.58
1.02479	0.79027	1.02479	1670.286	1730.916
1.27159	0.16074	1.27159	301.8592	393.2846
-1.11805	0.84405	0.89441	101.0417	90.79617
1.11438	0.09813	1.11438	1529.073	1699.212
-1.00551	0.91644	0.99452	1823.171	1813.089
-1.2305	0.03181	0.81267	2052.937	1651.038
1.21429	0.00735	1.21429	8704.666	10382.12
-1.01557	0.81898	0.98467	2438.47	2392.714
-1.04594	0.70152	0.95608	608.9034	589.6777
-1.01666	0.86113	0.98362	712.171	705.6891
1.0803	0.05954	1.0803	66218.22	71502.29
1.11078	0.13078	1.11078	6056.022	6643.905
1.13694	0.22783	1.13694	616.2385	707.2549
-1.13914	0.12808	0.87786	9821.657	8406.216
-1.07823	0.53494	0.92745	641.5712	595.1505
-1.05467	0.70202	0.94817	300.9494	285.3279
-1.0098	0.8942	0.9903	1409.572	1393.834
1.09345	0.31854	1.09345	5198.008	5540.95
1.01631	0.74212	1.01631	5764.719	5849.975
-1.49852	0.00078	0.66733	1034.836	695.9182
1.13475	0.41637	1.13475	10536.45	11259.09
-1.14562	0.24566	0.87289	1951.594	1721.541
-1.00477	0.94159	0.99525	1236.111	1234.772
-1.1601	0.32078	0.86199	363.802	317.8693
-1.35857	5.50E-06	0.73607	1207.802	890.3699
-1.27575	0.0221	0.78385	1632.864	1270.322
1.04905	0.74898	1.04905	280.4756	291.7848
-1.10145	0.19747	0.90789	2757.328	2489.186
-1.24618	0.11535	0.80245	694.5615	565.6995
-1.15582	0.68705	0.86518	139.1722	120.9082

1.09511	0.07951	1.09511	4738.429	5166.082
-1.07159	0.51317	0.93319	572.5579	537.6976
-1.0026	0.96658	0.99741	1375.067	1369.735
1.06483	0.92195	1.06483	83.59588	85.07597
-1.12125	0.20785	0.89186	5160.078	4503.172
-1.2733	0.00752	0.78536	888.4728	703.0543
-1.00209	0.97653	0.99792	2165.888	2169.059
-1.19834	0.30441	0.83449	307.2708	253.5443
1.00795	0.98914	1.00795	85.04704	86.85565
-1.05547	0.53594	0.94744	468.0841	443.3752
-1.8811	3.21E-18	0.5316	15028.36	7863.814
1.01283	0.94339	1.01283	228.721	233.6244
-1.14032	0.01106	0.87694	2108.085	1845.966
-1.25464	0.03448	0.79704	1815.925	1446.781
-1.11698	0.22622	0.89527	2005.968	1771.722
-1.01628	0.79226	0.98398	3913.878	3846.193
-1.09739	0.17144	0.91125	2114.205	1934.275
-1.00626	0.90266	0.99378	3263.626	3244.523
-1.01791	0.72556	0.98241	6228.538	6117.917
-1.00432	0.97884	0.9957	323.4094	322.3878
-1.06165	0.07631	0.94193	3414.105	3224.758
-1.02934	0.85191	0.9715	413.2101	410.074
1.09918	0.24624	1.09918	425.8544	468.2652
-1.00799	0.94991	0.99207	1029.889	1024.773
-1.12807	0.16628	0.88647	556.9679	493.4513
1.22597	0.00224	1.22597	154080.9	190182.5
-1.03101	0.83186	0.96992	433.8412	428.4471
-1.09416	0.49205	0.91394	6694.395	5992.362
-1.00689	0.92827	0.99316	616.7752	611.7861
1.05574	0.76851	1.05574	286.7625	309.8815
1.05512	0.43872	1.05512	777.2097	821.0145
-1.01862	0.84724	0.98172	1488.856	1464.063
-2.09512	0.02302	0.4773	288.0361	145.5494
-1.03059	0.88352	0.97032	315.3026	301.9969
-1.03308	0.66264	0.96798	588.2155	568.6531
1.01044	0.82719	1.01044	6066.375	6129.157
-1.03496	0.79615	0.96623	565.7631	549.0881
-1.13454	0.00292	0.88141	28802.23	25351.67
1.02598	0.86428	1.02598	298.3705	309.2244
-1.06763	0.58513	0.93665	534.4072	494.4453
-1.0238	0.80945	0.97675	778.5665	763.606
-1.07989	0.4991	0.92602	713.9305	668.641
1.1822	0.02591	1.1822	1113.31	1317.417
-1.1576	0.07206	0.86385	1740.679	1493.562
-1.07176	0.4859	0.93304	804.8491	751.9691
1.03935	0.57313	1.03935	1026.873	1070.238
1.04607	0.9472	1.04607	75.52898	77.37584
1.08608	0.69786	1.08608	188.0921	201.9833
1.01404	0.88893	1.01404	900.032	917.4294
-1.01602	0.91716	0.98424	1099.002	1088.485
-1.21786	0.03352	0.82111	793.5961	654.9511
1.06842	0.36544	1.06842	1871.714	2006.949

1.02068	0.82131	1.02068	3589.707	3649.997
-1.07515	0.63675	0.9301	433.6628	394.4735
2.02423	2.57E-18	2.02423	983.1359	1992.691
1.36474	3.62E-08	1.36474	3056.877	4178.985
-2.87583	1.32E-23	0.34773	9977.552	3371.302
-1.10407	0.38584	0.90574	676.1247	619.8942
-1.14307	0.68633	0.87483	140.7601	123.1938
1.05614	0.53262	1.05614	577.6359	608.4533
1.06395	0.54054	1.06395	579.3568	620.3909
-1.08279	0.56798	0.92354	2426.865	2149.89
-1.05522	0.50386	0.94767	768.2262	731.4343
-1.00801	0.91314	0.99205	1297.962	1286.089
1.01481	0.9657	1.01481	164.6072	170.4265
1.21963	0.04107	1.21963	511.4437	620.4449
1.0367	0.50523	1.0367	2749.82	2847.43
-1.42674	0.00468	0.7009	12655.87	8393.828
-1.74566	0.00011	0.57285	1681.43	957.3044
-1.01974	0.89091	0.98064	323.5182	319.2824
1.13241	0.1027	1.13241	989.131	1119.849
1.02542	0.62308	1.02542	12629.51	13033.63
1.09162	0.25561	1.09162	5747.958	6313.435
-1.00869	0.92554	0.99138	564.3605	562.5707
1.03834	0.66057	1.03834	1119.918	1158.742
1.0236	0.89215	1.0236	242.0008	246.245
-1.37972	0.00045	0.72478	1141.003	826.2062
-1.00077	0.99588	0.99924	375.6983	369.5811
1.09229	0.4085	1.09229	697.7719	754.8052
-1.27723	0.00005	0.78295	9344.467	7249.95
1.01271	0.86316	1.01271	1886.999	1905.151
-1.02715	0.8127	0.97357	1211.337	1175.39
-1.00429	0.96219	0.99573	655.3242	654.5143
-1.03933	0.74616	0.96216	770.7702	751.4984
1.13473	0.24256	1.13473	2843.739	3224.938
-1.06486	0.67547	0.93909	537.447	509.389
-1.14667	0.34878	0.87209	571.1948	498.5144
-1.13876	0.23652	0.87815	785.7194	696.4979
-1.14908	0.26706	0.87026	1975.947	1719.586
-1.03185	0.9087	0.96914	193.4511	187.0423
-1.03509	0.55441	0.9661	1604.675	1551.792
-1.00104	0.98866	0.99896	2502.835	2498.383
1.03971	0.67288	1.03971	4954.36	5054.206
-1.13594	0.12986	0.88033	987.221	873.6016
-1.00806	0.94061	0.992	600.6871	590.2105
-1.39168	0.02124	0.71855	781.1476	571.5781
-1.0163	0.9646	0.98396	152.059	147.9916
-1.06361	0.45391	0.94019	1082.27	1019.658
-1.04029	0.57968	0.96127	1614.891	1557.46
-1.00421	0.98784	0.99581	197.2791	198.3827
1.0861	0.12885	1.0861	4341.995	4728.138
-1.04063	0.34775	0.96096	2438.422	2343.037
-1.07201	0.56973	0.93283	550.939	520.9508
1.03124	0.46542	1.03124	5555.511	5729.375

1.02738	0.66248	1.02738	1983.489	2045.647
1.13286	0.54511	1.13286	498.8244	600.2211
1.09756	0.59809	1.09756	255.3122	277.1826
-1.02569	0.67116	0.97496	891.8145	870.0129
1.158	0.04892	1.158	8522.668	9957.76
-1.06376	0.6434	0.94006	316.7037	298.3067
-1.00277	0.99545	0.99724	89.21516	89.13403
1.15472	0.93543	1.15472	24.9591	26.33326
1.03337	0.74767	1.03337	1195.824	1231.073
1.08071	0.89204	1.08071	84.30596	90.75858
-1.00426	0.95639	0.99576	1922.934	1918.802
1.02287	0.69176	1.02287	1622.835	1658.305
1.67984	0.0045	1.67984	318.3406	516.567
-1.19029	0.11735	0.84013	11752.81	9388.246
-1.21308	0.00037	0.82435	1562.339	1288.079
-1.03494	0.78709	0.96624	1217.84	1180.834
-1.0621	0.32799	0.94153	6267.74	5874.959
1.04387	0.74626	1.04387	290.2048	303.8314
1.11791	0.25339	1.11791	541.3181	601.6365
1.08209	0.14056	1.08209	13199.52	14205.26
1.15755	0.58235	1.15755	179.2311	207.4683
-1.06749	0.40371	0.93678	1150.493	1079.008
1.14711	0.08532	1.14711	1357.369	1570.929
-1.10265	0.21354	0.9069	1378.517	1249
-1.02919	0.66399	0.97164	1162.085	1129.93
-1.02017	0.85726	0.98023	492.0405	481.1254
-1.18358	0.79963	0.84489	90.29755	74.30502
1.00136	0.98042	1.00136	3641.448	3648.678
1.00821	0.9613	1.00821	278.7692	283.7275
1.36054	0.00002	1.36054	7041.767	9693.612
1.26858	0.00029	1.26858	2165.306	2754.393
-1.01253	0.80585	0.98762	4762.571	4707.314
1.05034	0.65897	1.05034	1565.494	1666.384
-1.03606	0.64703	0.9652	7433.041	7034.039
1.67735	0.69596	1.67735	30.27097	43.66574
-1.05881	0.70672	0.94445	358.8929	342.3046
-1.00766	0.90662	0.9924	1409.526	1401.266
1.00535	0.95009	1.00535	936.5881	944.4165
1.07212	0.23246	1.07212	2634.566	2818.003
1.0514	0.3349	1.0514	3418.799	3589.153
1.01558	0.88228	1.01558	387.6447	395.1885
-1.03647	0.66348	0.96481	626.3929	601.8679
1.10682	0.46191	1.10682	476.4457	518.0372
1.04986	0.4798	1.04986	1870.918	1967.967
-1.43465	3.17E-06	0.69703	3420.38	2406.102
-1.06804	0.485	0.9363	873.7396	823.2169
-1.05888	0.67468	0.94439	459.0502	435.1606
-1.07218	0.66852	0.93268	344.2215	325.171
1.06363	0.45257	1.06363	1241.12	1320.579
-1.22235	0.65143	0.8181	134.0241	112.6084
-1.17448	0.13195	0.85144	1213.661	1032.474
-1.48923	0.02828	0.67149	543.7936	361.2261

-1.21752	0.01878	0.82134	18423.48	14764.92
1.07513	0.36742	1.07513	2900.454	3098.69
-1.04631	0.48945	0.95574	2446.18	2349.225
-1.13866	0.28096	0.87822	2577.526	2263.64
1.13193	0.70758	1.13193	136.2846	153.6675
-1.01072	0.89861	0.9894	639.1498	632.7147
-1.0279	0.72922	0.97286	1306.413	1275.429
1.00561	0.93889	1.00561	1424.104	1428.584
-1.00717	0.96325	0.99288	337.075	339.3276
1.00262	0.97345	1.00262	822.3704	822.9592
1.07841	0.55949	1.07841	571.355	606.4946
-1.00066	0.99549	0.99934	423.3342	424.8189
-1.01352	0.92846	0.98666	268.9346	265.2333
1.14555	0.26746	1.14555	359.5364	410.5223
1.02809	0.64514	1.02809	2257.542	2309.401
1.00919	0.85095	1.00919	3541.05	3583.579
1.05085	0.75851	1.05085	283.5541	301.7324
1.01482	0.93853	1.01482	225.8763	228.4817
1.0964	0.2534	1.0964	932.1829	1018.788
1.29332	0.03807	1.29332	2618.441	3448.875
1.13049	0.77295	1.13049	134.6552	137.877
1.19138	0.21194	1.19138	1233.358	1473.154
1.01168	0.83203	1.01168	2001.437	2022.553
1.12025	0.3736	1.12025	595.2094	656.4374
1.13656	0.2895	1.13656	523.3455	586.9191
1.01675	0.87088	1.01675	439.6456	448.1982
1.12385	0.23698	1.12385	554.5907	618.9191
-1.40879	0.50786	0.70983	130.8621	89.46302
-1.114	0.74045	0.89766	160.3651	143.0849
-1.76151	1.03E-11	0.56769	841.1517	477.2469
1.06566	0.81705	1.06566	119.6777	127.4639
1.12126	0.51069	1.12126	279.8381	319.2017
-1.01536	0.79307	0.98487	6280.503	6179.639
1.00825	0.96125	1.00825	351.1947	355.9647
1.20568	0.00217	1.20568	981.3987	1183.47
-1.48142	0.01039	0.67503	473.6709	325.1633
1.05653	0.87418	1.05653	153.7965	162.0012
-1.20171	0.51753	0.83215	228.8825	187.4082
1.08305	0.54898	1.08305	455.3449	487.5091
1.11976	0.15248	1.11976	3284.969	3704.804
1.07918	0.50933	1.07918	308.9394	333.7813
1.26865	0.0041	1.26865	13678.17	17761.43
-1.05327	0.94059	0.94943	65.70285	62.20098
1.16795	0.01135	1.16795	16756.76	19421.52
1.12211	0.76871	1.12211	114.0047	133.2137
-1.15893	0.75675	0.86286	103.408	88.87398
-1.08524	0.68589	0.92146	318.5879	292.6591
-1.06777	0.3317	0.93653	9021.842	8533.748
-1.02506	0.86386	0.97555	285.9939	279.5052
-1.06014	0.82331	0.94327	159.48	152.6653
1.03572	0.61777	1.03572	3508.497	3662.52
-1.00888	0.9471	0.9912	335.8688	332.8152

-1.04909	0.59926	0.95321	687.1146	659.497
1.27062	3.51E-07	1.27062	4091.252	5195.497
1.01482	0.98305	1.01482	76.48582	79.40134
1.13989	0.02909	1.13989	976.1168	1110.211
1.16052	0.20978	1.16052	446.8352	512.9877
-1.1131	0.63194	0.89839	322.3981	281.6904
-1.11698	0.10046	0.89528	1873.699	1681.648
1.00436	0.95525	1.00436	3819.312	3787.911
1.01469	0.86223	1.01469	588.4395	597.852
1.24133	1.54E-06	1.24133	4910.319	6086.286
-2.01238	9.54E-07	0.49692	84002.64	43249.17
-1.00723	0.93329	0.99282	734.8421	724.837
1.35228	0.00068	1.35228	40631.62	55792.04
1.41473	0.00281	1.41473	493.8263	690.7852
1.14954	0.00415	1.14954	2674.014	3079.171
1.09518	0.16051	1.09518	2314.2	2548.725
-1.03178	0.7796	0.9692	482.9075	471.481
1.19108	0.39405	1.19108	206.613	248.3581
-1.31694	0.0006	0.75934	1509.339	1145.162
1.03461	0.82735	1.03461	294.925	304.8885
-1.01235	0.78404	0.98781	14486.36	14275.8
1.02751	0.6902	1.02751	2236.919	2299.661
1.34109	0.01452	1.34109	2502.754	3438.73
1.16078	0.42006	1.16078	304.0125	342.675
-1.08277	0.75646	0.92356	218.3907	200.5495
-1.09527	0.08392	0.91302	2813.491	2571.484
1.0384	0.80225	1.0384	249.5661	259.007
1.23108	0.00713	1.23108	1173.635	1446.297
-1.10929	0.41359	0.90148	10160.1	8692.469
1.3979	3.32E-06	1.3979	5857	8099.743
1.05924	0.67271	1.05924	852.8251	890.816
1.0236	0.70273	1.0236	1621.601	1658.167
1.02252	0.68602	1.02252	2076.72	2120.425
1.08379	0.30249	1.08379	1126.821	1214.953
-1.5882	0.0013	0.62964	7076.005	4098.043
-1.12699	0.17279	0.88732	2875.978	2513.683
1.12032	0.14728	1.12032	1362.989	1528.082
-1.14291	0.1452	0.87496	6013.123	5154.305
1.9277	3.62E-26	1.9277	2287.973	4427.291
1.56703	1.20E-10	1.56703	3646.981	5758.055
1.09265	0.09262	1.09265	10309.8	11347.99
-1.08032	0.60597	0.92565	426.5205	396.6205
-1.01015	0.87715	0.98996	1382.906	1369.066
-1.33175	0.05668	0.75089	714.812	548.5909
1.03388	0.69979	1.03388	1234.095	1273.881
-1.04525	0.6348	0.95671	620.4169	596.7836
-1.07571	0.55239	0.92962	511.6362	475.9543
1.05102	0.66592	1.05102	331.5342	348.6988
-1.02106	0.70684	0.97937	1682.623	1647.348
1.21295	0.3317	1.21295	5527.306	6621.984
1.08556	0.20211	1.08556	1128.518	1222.665
1.03114	0.76177	1.03114	1718.259	1794.494

-1.07467	0.2404	0.93052	1109.288	1034.763
-1.07942	0.50069	0.92643	465.0935	430.8522
1.07778	0.60119	1.07778	659.1152	696.0565
-1.15191	0.00846	0.86812	9893.566	8620.738
-1.15295	0.35857	0.86734	531.039	455.6778
1.02056	0.69441	1.02056	3634.43	3697.167
1.25156	0.11167	1.25156	416.982	513.8099
-1.43721	0.11181	0.69579	364.1351	248.9867
1.0277	0.66113	1.0277	1096.501	1126.182
-1.08169	0.90165	0.92448	88.43446	81.91171
-1.19509	0.00154	0.83675	6598.729	5468.764
1.07586	0.82901	1.07586	173.1004	189.9357
1.0062	0.91593	1.0062	3685.138	3707.314
-1.05864	0.25488	0.94461	5384.867	5058.451
1.07569	0.43875	1.07569	923.764	986.6939
1.02997	0.9385	1.02997	114.999	118.7005
1.19244	0.00061	1.19244	19150.34	22665.01
1.04633	0.91556	1.04633	109.4905	114.0555
-1.02726	0.87186	0.97347	320.1265	309.8561
1.17115	0.03224	1.17115	4648.966	5375.165
1.07114	0.43914	1.07114	3801.005	4008.024
-1.24493	0.20185	0.80326	553.7559	453.9063
1.03552	0.63419	1.03552	943.492	974.354
1.47303	9.43E-06	1.47303	951.6802	1402.932
1.18698	0.12405	1.18698	499.4147	588.1776
1.06183	0.31709	1.06183	1044.235	1110.599
1.1492	0.1495	1.1492	48448.14	54250.63
1.07425	0.35285	1.07425	5024.601	5354.587
1.13527	0.03666	1.13527	6437.286	7353.098
1.04386	0.44384	1.04386	1439.64	1502.542
-1.02675	0.6845	0.97394	962.187	937.2598
1.06745	0.4445	1.06745	1208.979	1289.24
-1.02225	0.75429	0.97823	842.8317	823.4423
-1.00888	0.90405	0.9912	956.4276	950.5537
1.10933	0.81222	1.10933	112.44	126.0439
1.50858	0.63002	1.50858	44.19936	63.40456
-1.16944	0.57125	0.85511	194.3242	162.1577
-7.61104	0	0.13139	13631.16	1727.099
1.11111	0.15056	1.11111	2639.125	2907.281
-1.03645	0.76389	0.96484	395.6478	384.529
1.02936	0.67319	1.02936	1598.374	1648.605
1.01731	0.79234	1.01731	825.9465	842.2483
1.0208	0.76949	1.0208	3397.527	3498.224
-1.08825	0.12156	0.91891	3045.358	2790.231
-1.29802	0.00002	0.7704	3311.259	2534.017
1.04884	0.50952	1.04884	2131.797	2226.37
1.00375	0.95304	1.00375	701.8639	703.8506
1.01769	0.71318	1.01769	7897.797	8044.871
-1.09706	0.55729	0.91153	469.423	431.5305
1.00814	0.91508	1.00814	730.9283	739.6138
-1.07179	0.19306	0.93302	1307.422	1220.677
-1.14041	0.44201	0.87688	471.1889	407.5795

1.03234	0.79703	1.03234	617.4295	627.9071
1.1229	0.31972	1.1229	1134.92	1277.564
-1.04615	0.97483	0.95588	33.81344	31.54759
1.1248	0.79709	1.1248	98.28089	108.3745
-1.02233	0.73613	0.97816	3588.576	3512.002
1.01907	0.85018	1.01907	666.5433	673.9966
1.08759	0.56256	1.08759	353.9534	389.9128
1.1254	0.28766	1.1254	417.5294	467.9796
1.0099	0.89811	1.0099	601.484	607.109
1.09312	0.88381	1.09312	70.68273	77.68649
-1.17019	0.08968	0.85456	99005.06	87071.55
1.05701	0.38854	1.05701	2569.056	2710.49
-1.01167	0.9308	0.98846	314.3976	308.9311
1.01601	0.95668	1.01601	124.9014	127.1427
1.03699	0.92537	1.03699	118.1543	122.7268
1.16916	0.45278	1.16916	178.9374	209.1503
1.34623	0.00003	1.34623	2947.911	3998.065
1.07178	0.78145	1.07178	151.316	161.103
-1.25553	0.11381	0.79647	419.0692	337.7822
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1.26531	6.50E-06	1.26531	4947.504	6242.818
1.29497	0.00002	1.29497	1838.828	2385.052
-1.17631	0.72209	0.85012	131.7338	109.0428
-1.0126	0.82913	0.98756	831.842	821.1619
-1.01074	0.88659	0.98937	1515.875	1493.478
-1.06411	0.64074	0.93975	551.0637	526.8025
1.12937	0.06687	1.12937	741.3335	837.3809
-1.09686	0.33768	0.91169	579.7688	531.8833
1.05436	0.78082	1.05436	273.848	289.8567
-2.01813	0	0.49551	240774.5	119593.9
-1.06637	0.83812	0.93776	186.7915	177.6926
1.05949	0.85639	1.05949	139.0954	146.3177
-1.25953	0.01252	0.79395	1288.585	1030.133
-1.1413	0.06019	0.8762	7370.804	6377.137
-1.05948	0.77438	0.94386	206.6306	196.9144
1.0199	0.97853	1.0199	72.75105	76.96468
-1.10089	0.85362	0.90836	112.8705	99.92742
-1.30731	0.00316	0.76493	1191.641	913.6745
1.03683	0.66618	1.03683	863.7249	899.3051
1.12656	0.18077	1.12656	859.9185	962.6122
-2.15728	0.00485	0.46355	764.0714	357.0533
-1.37281	0.00113	0.72844	1053.937	772.9947
1.11308	0.08277	1.11308	1381.781	1536.842
-1.22862	0.00733	0.81392	2447.919	2003.782
1.04568	0.50581	1.04568	1776.172	1854.227
-1.00793	0.87128	0.99213	17573.4	17492.43
1.05395	0.88082	1.05395	195.8604	186.0938
-1.18687	0.06208	0.84255	1206.962	1028.849
1.13682	0.30927	1.13682	1620.172	1817.689
1.01084	0.89445	1.01084	28150.42	27643.66
-1.10564	0.17492	0.90445	863.7665	780.5352
1.01166	0.88005	1.01166	2255.371	2281.914

1.19844	0.04622	1.19844	3845.084	4662.734
-1.02831	0.63915	0.97247	959.9547	933.7316
1.05528	0.84421	1.05528	192.8966	204.7147
-1.51672	0.00001	0.65932	1770.815	1155.877
-1.1482	0.19582	0.87093	1109.644	967.8058
-1.05367	0.49435	0.94906	1026.223	978.4013
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1.04819	0.72675	1.04819	1049.988	1108.815
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1.21393	0.02676	1.21393	2319.573	2872.992
1.0339	0.76359	1.0339	1939.462	1978.073
-1.17671	0.13249	0.84983	736.913	628.996
-1.06545	0.54555	0.93857	1419.916	1357.863
1.0267	0.75944	1.0267	7215.683	7575.182
-1.14737	0.66054	0.87156	160.4991	139.2874
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1.18415	0.03187	1.18415	2184.29	2560.884
-1.07518	0.64915	0.93008	478.0376	458.1058
1.22911	0.07436	1.22911	600.6858	747.0079
-1.01345	0.97679	0.98673	118.6182	117.1883
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-1.13228	0.03569	0.88317	1512.317	1334.886
-1.00841	0.92852	0.99166	4064.985	3935.586
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1.32697	1.91E-07	1.32697	1603.271	2129.953
1.13525	0.07591	1.13525	3400.898	3870.559
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-1.19703	0.21736	0.8354	964.8545	822.7233
1.07002	0.66177	1.07002	452.9622	495.7796
1.14177	0.48601	1.14177	186.2501	213.9605
1.07778	0.55367	1.07778	512.1057	546.5456
1.13617	0.23668	1.13617	746.6513	841.1664
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1.11091	0.21169	1.11091	561.2113	624.6715
1.04805	0.82674	1.04805	166.3502	173.6249
-1.03524	0.55107	0.96596	1659.755	1602.31
1.05866	0.56846	1.05866	664.2647	696.9388
-1.18243	0.05616	0.84572	18805	15575.57

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-1.18897	0.06607	0.84107	2602.579	2146.438
-1.05723	0.56224	0.94587	730.4778	687.8966
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1.0144	0.86281	1.0144	593.9186	601.9343
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-1.00684	0.96785	0.99321	370.1328	370.0007
1.05099	0.32023	1.05099	2345.681	2465.207
1.24551	0.00199	1.24551	1756.126	2188.855
-1.06906	0.89582	0.9354	116.9156	104.2752
-1.15293	0.37144	0.86736	850.2218	751.2635
1.07246	0.5665	1.07246	1788.623	1938.596
-1.10194	0.2315	0.90749	762.0747	693.0113
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1.07667	0.39951	1.07667	430.4891	463.0239
1.02148	0.7888	1.02148	874.4542	896.7852
1.01071	0.81881	1.01071	2920.077	2950.45
-1.32301	0.00166	0.75585	3105.18	2316.126
1.12785	0.03548	1.12785	1536.894	1732.965
-1.03944	0.46519	0.96206	2419.537	2324.484
-1.2355	0.00905	0.80939	3907.723	3184.884
-1.00758	0.85556	0.99248	3426.392	3400.611
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1.09048	0.75866	1.09048	166.1815	182.0094
1.07399	0.45705	1.07399	777.4082	830.7548
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1.12376	0.37051	1.12376	579.1187	639.7327
1.00933	0.82897	1.00933	4553.122	4598.762
1.15709	0.39541	1.15709	330.9541	373.709
1.00163	0.97247	1.00163	2543.257	2547.663
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1.0945	0.44205	1.0945	461.793	509.0378
1.0232	0.81733	1.0232	492.5668	506.0396
1.2038	0.00566	1.2038	884.1049	1063.429
1.00053	0.99658	1.00053	528.7357	536.2944
-1.15572	0.38262	0.86526	471.8265	403.4134
1.08395	0.25713	1.08395	2270.51	2466.472
-1.02789	0.94254	0.97287	124.4519	123.4547
1.04993	0.59684	1.04993	2042.797	2148.547
1.03628	0.75462	1.03628	307.7273	318.64
1.02792	0.75589	1.02792	646.0821	663.2156
1.01915	0.82481	1.01915	1812.275	1868.117
-1.0335	0.61896	0.96759	1885.757	1824.046
1.04244	0.59084	1.04244	1030.101	1075.582

-1.09926	0.64159	0.9097	331.3792	297.4144
1.08506	0.23	1.08506	790.5404	858.4264
1.01221	0.9773	1.01221	128.6755	133.2664
-1.05891	0.61607	0.94437	630.7839	602.209
1.12669	0.47335	1.12669	271.1221	301.7872
1.09494	0.6417	1.09494	269.2372	287.6354
-1.02693	0.81491	0.97378	2926.054	2820.268
1.37443	1.36E-07	1.37443	41526.38	56665.16
-1.14202	0.21967	0.87564	484.376	424.1405
1.08036	0.33224	1.08036	1371.125	1478.631
-1.0965	0.83861	0.91199	132.3792	117.5469
1.03631	0.74839	1.03631	788.0004	810.1245
1	1	1	25.39151	19.79935
1.04769	0.55578	1.04769	635.3766	667.5201
1.30598	0.00061	1.30598	518.9048	676.8297
-1.03601	0.89688	0.96524	227.8757	215.3252
-1.09442	0.90462	0.91373	74.63493	68.37625
-1.11024	0.41374	0.90071	1174.667	1071.559
1.0638	0.41047	1.0638	1782.131	1895.187
-1.01723	0.79711	0.98306	971.3793	957.0471
1.03811	0.68482	1.03811	1950.104	2035.457
1.01618	0.73077	1.01618	2273.221	2310.261
-1.41886	0.14021	0.70479	284.1595	180.4245
-1.28995	0.02787	0.77523	530.2063	414.6112
1.01316	0.95359	1.01316	230.0472	233.9544
-1.40567	0.00002	0.7114	1007.067	718.9021
1.10098	0.23194	1.10098	3233.434	3522.579
1.03166	0.90802	1.03166	140.1897	145.829
-1.10796	0.16883	0.90256	11951.47	10733.09
-1.05551	0.80676	0.94741	227.0271	214.7964
-1.08842	0.24701	0.91877	865.2373	794.6035
-1.07386	0.23243	0.93122	4464.621	4171.637
1.32784	0.01363	1.32784	31453.03	43591.33
1.00861	0.98208	1.00861	144.7341	148.9104
1.3862	0.18856	1.3862	138.8564	190.951
1.03584	0.87597	1.03584	159.8183	164.3124
-1.15315	0.27321	0.86719	501.8029	441.0141
-1.53401	0.00002	0.65189	719.7219	471.612
-1.32401	0.22957	0.75528	243.2314	180.7112
-1.00835	0.90834	0.99172	1262.137	1254.006
-1.03565	0.82685	0.96558	337.1623	323.4772
1.24502	9.87E-07	1.24502	3808.82	4744.819
-1.08108	0.58758	0.925	528.0787	498.6393
1.01523	0.81515	1.01523	1172.528	1193.588
-1.01613	0.76285	0.98412	1616.026	1591.66
-1.08081	0.62873	0.92523	494.7498	463.6894
-1.03093	0.7997	0.97	7934.805	7378.377
1.38917	0.00078	1.38917	4349.226	6237.991
-1.2402	1.68E-07	0.80632	15604.43	12584.97
1.00732	0.90351	1.00732	2169.978	2188.728
-1.03236	0.73783	0.96865	781.014	761.2829
-1.05357	0.49364	0.94916	1578.624	1503.115

-1.01543	0.79309	0.98481	25854.26	25771.59
1.05686	0.88269	1.05686	94.03946	98.65719
-1.00078	0.99266	0.99923	68313.63	66184.8
-2.32356	1.89E-07	0.43037	520.5482	220.624
-1.10734	0.0857	0.90307	1474.777	1331.264
-1.09608	0.36314	0.91235	619.8181	565.491
-1.09335	0.35028	0.91462	8479.81	7544.4
-1.00604	0.98457	0.994	145.3915	144.5654
-1.28592	0.10742	0.77765	856.5252	675.7621
1.10368	0.12812	1.10368	874.3945	963.8306
1.16531	0.04736	1.16531	786.4309	912.3853
-1.0279	0.60281	0.97286	2041.373	1980.948
1.28925	0.01693	1.28925	1258.125	1629.358
1.02409	0.77066	1.02409	581.3947	594.5013
-1.03244	0.90294	0.96858	270.8962	267.2485
1.73936	2.54E-07	1.73936	411.951	718.4262
1.11601	0.40918	1.11601	655.8231	718.6963
1.35235	0.01472	1.35235	1168.395	1593.755
-1.02968	0.5769	0.97118	2220.084	2155.109
-1.0998	0.15529	0.90925	72494.27	65226.26
-1.72082	0.00001	0.58112	1123.144	656.0638
1.02761	0.61023	1.02761	1206.511	1241.656
-1.76875	0.0077	0.56537	921.6744	532.6163
-2.59944	0	0.3847	13590.88	5266.211
-1.12289	0.15703	0.89056	767.3004	681.9273
-1.10247	0.18033	0.90705	1556.726	1411.696
-1.00678	0.98193	0.99326	189.148	183.2188
-1.0809	0.62641	0.92515	350.2217	323.3873
1.0205	0.85768	1.0205	552.4113	563.3213
1.02156	0.70161	1.02156	2974.458	3055.954
1.04418	0.34616	1.04418	6880.846	7192.262
-1.09108	0.48117	0.91652	430.9879	391.2018
-1.07684	0.1024	0.92865	6521.321	6041.565
1.47081	0.00218	1.47081	505.9387	733.7835
-1.11353	0.64367	0.89804	262.9536	237.2377
-1.02365	0.73338	0.97689	1033.293	1013.88
1.27795	0.016	1.27795	692.5544	878.7856
-1.00045	0.99715	0.99955	1181.1	1176.44
1.07915	0.74694	1.07915	176.1877	189.9281
-1.41753	0.0015	0.70545	2033.601	1421.286
-1.03065	0.55983	0.97026	2400.027	2330.052
-1.00241	0.99308	0.99759	172.1709	172.295
-1.22537	0.24746	0.81608	481.1043	407.1349
1.14173	0.00577	1.14173	1341.955	1532.608
-1.03153	0.61942	0.96943	3788.639	3678.634
-1.27358	0.09268	0.78519	1034.067	818.3389
-1.20637	0.15012	0.82893	424.0826	349.3323
1.18024	0.00228	1.18024	4823.673	5721.786
-1.02471	0.71114	0.97588	4018.616	3934.128
-1.04673	0.32459	0.95535	21630.53	20739.6
1.07477	0.75277	1.07477	311.7511	341.2468
1.12941	0.05127	1.12941	1930.413	2187.196

1.03771	0.60318	1.03771	2058.406	2127.185
-1.15013	0.00669	0.86947	2413.519	2101.757
-1.04248	0.53799	0.95925	1217.412	1170.424
-1.03467	0.73211	0.96649	6212.261	6209.515
-1.07349	0.72511	0.93154	314.9177	290.4032
-1.05401	0.62215	0.94876	424.4682	404.8682
1.01784	0.92553	1.01784	245.5443	253.8124
1.55413	0.00014	1.55413	1915.349	3054.471
1.16657	0.43135	1.16657	264.2062	306.2745
-1.00846	0.91423	0.99161	735.3877	726.2245
-1.19721	0.2296	0.83527	311.7792	258.3539
-1.24145	0.10579	0.80551	1913.217	1514.986
1.01439	0.94811	1.01439	228.8823	232.8667
-1.02707	0.62969	0.97364	3607.892	3512.931
1.28023	0.01088	1.28023	3885.679	4859.448
1.03208	0.74366	1.03208	952.0638	987.1031
1.07988	0.41719	1.07988	940.8129	1020.805
1.59069	0.02935	1.59069	431.3828	662.7
-1.12418	0.68741	0.88953	209.0221	184.6365
1.06798	0.41324	1.06798	713.6369	758.3644
1.24223	0.00138	1.24223	3726.603	4678.108
1.09828	0.3007	1.09828	548.7719	602.998
1.0614	0.39078	1.0614	1075.42	1141.343
1.13533	0.01318	1.13533	2599.461	2957.864
-1.0037	0.94691	0.99632	1100.951	1095.722
-1.03716	0.70534	0.96417	1428.483	1371.717
-1.03586	0.85809	0.96538	315.399	306.9642
1.1078	0.45831	1.1078	8572.336	9750.239
1.15772	0.01371	1.15772	4483.984	5216.473
-1.03256	0.95643	0.96847	81.05243	78.42256
1.26051	0.00071	1.26051	2157.011	2693.756
1.06285	0.56042	1.06285	895.6338	956.7064
-1.1178	0.27439	0.89462	601.0198	540.7764
-1.00133	0.98663	0.99867	1277.84	1279.227
-1.01345	0.8938	0.98673	558.4133	553.6691
1.02743	0.82007	1.02743	402.0173	410.7295
-1.00602	0.92632	0.99402	2765.316	2753.163
1.0804	0.20828	1.0804	1673.678	1809.381
-1.07543	0.32596	0.92986	1112.057	1040.44
-1.04164	0.40738	0.96003	4053.438	3900.239
1.02147	0.88173	1.02147	826.3567	828.8601
-1.03394	0.9291	0.96718	142.6168	136.4113
1.11378	0.29062	1.11378	6236.986	7063.111
1.10133	0.13746	1.10133	1259.15	1386.257
-1.07085	0.59576	0.93383	461.0909	434.775
-1.12142	0.54378	0.89173	297.2813	260.0621
1.04623	0.9609	1.04623	48.65229	51.3167
-1.00791	0.91915	0.99216	1070.628	1062.881
1.04075	0.64002	1.04075	1620.634	1670.67
1.18412	0.20144	1.18412	428.3645	515.1153
-1.01043	0.86523	0.98968	1025.589	1015.374
-1.38242	3.95E-13	0.72337	3272.667	2367.64

1.01848	0.83142	1.01848	2053.739	2105.013
-1.26373	0.01606	0.79131	704.2156	561.6291
1.08397	0.19161	1.08397	767.0104	831.1318
-1.01971	0.757	0.98067	2531.382	2482.921
1.0228	0.72929	1.0228	1086.295	1114.552
-1.06071	0.26017	0.94276	6232.52	5847.029
1.03141	0.7745	1.03141	711.2871	727.69
1.06769	0.47739	1.06769	448.4548	478.7759
-1.22265	0.00246	0.8179	9243.294	7455.441
1.05385	0.58053	1.05385	446.0337	469.5043
1.03505	0.61898	1.03505	1981.313	2050.516
-1.02013	0.8399	0.98027	1286.341	1264.501
-1.32436	0.28191	0.75508	221.8243	172.0142
-1.45422	0.03297	0.68766	670.3032	469.1513
1	1	1	23.01331	21.21192
-1.14644	0.04917	0.87226	1610.816	1406.61
-1.19532	0.01896	0.8366	1642.176	1374.113
-1.02614	0.82268	0.97453	443.8903	436.2423
1.01455	0.90255	1.01455	449.9697	460.884
1.0772	0.29865	1.0772	8425.23	9201.289
-1.03123	0.71014	0.96971	1039.321	1009.438
1.11946	0.13301	1.11946	700.0055	785.9343
-1.08788	0.5452	0.91922	517.9139	474.2068
1.03896	0.71538	1.03896	1211.244	1258.542
-1.00788	0.92003	0.99218	1281.075	1277.568
1.07929	0.35198	1.07929	1100.284	1184.123
1.31996	0.02989	1.31996	2531.138	3433.961
-1.00866	0.93691	0.99142	664.5787	666.1609
-1.15092	0.14952	0.86887	5291.261	4572.526
-1.02585	0.59762	0.9748	4722.941	4594.585
-1.27793	0.00004	0.78252	3107.037	2447.989
1.02509	0.66378	1.02509	2471.836	2526.496
-1.68564	0.0011	0.59325	1102.495	667.0532
-1.04224	0.63431	0.95947	11401.33	10688.88
1.09324	0.62602	1.09324	292.205	312.4121
1.01717	0.75634	1.01717	2446.555	2491.461
-1.07924	0.40392	0.92658	1206.099	1125.199
-1.08906	0.75994	0.91822	204.9383	186.3218
-1.0949	0.15684	0.91332	6313.552	5731.852
-1.9092	1.44E-08	0.52378	9006.036	4474.918
1.19033	0.10847	1.19033	2552.513	3101.611
-1.04113	0.76726	0.96049	518.3362	498.7411
1.14507	0.27848	1.14507	297.0664	341.7621
-1.04737	0.46277	0.95477	1684.274	1609.368
1.08859	0.21892	1.08859	5329.672	5832.496
-1.28707	0.05658	0.77696	743.6152	586.4285
-1.02577	0.76102	0.97488	2254.809	2205.627
1.04767	0.42408	1.04767	5578.475	5839.101
1.0099	0.93544	1.0099	481.1164	491.4885
-1.17052	0.07784	0.85432	1795.61	1531.129
-1.24115	0.00002	0.80571	1611.402	1298.27
-1.0698	0.19526	0.93476	1856.017	1733.998

1.03428	0.83941	1.03428	386.4977	401.5079
1.20459	0.03708	1.20459	570.2833	684.4684
-1.0835	0.88251	0.92294	105.2734	94.68336
-1.52991	0.15005	0.65363	213.5861	144.9828
1.0589	0.58701	1.0589	360.9796	382.6355
1.05011	0.79819	1.05011	229.3658	237.9632
1.01125	0.88276	1.01125	845.0843	852.6252
-1.06886	0.65307	0.93558	285.459	265.273
-1.10373	0.55704	0.90602	326.5425	296.4883
-1.01446	0.87	0.98575	908.5543	896.8067
-1.09372	0.67463	0.91431	242.661	221.2665
1.00905	0.89783	1.00905	18169.87	18079.71
1.05138	0.47658	1.05138	760.3487	799.9464
1.11418	0.18498	1.11418	633.2273	703.7261
1.09147	0.46889	1.09147	4789.74	5372.532
1.03894	0.68159	1.03894	536.416	559.313
-1.05905	0.16654	0.94424	110419.8	104206.3
-1.04405	0.5761	0.9578	971.3607	935.9634
1.08618	0.17909	1.08618	2585.386	2806.243
1.04554	0.75657	1.04554	371.147	382.4586
-1.10862	0.4308	0.90202	1563.896	1410.663
-1.67377	1.28E-23	0.59746	2274.412	1359.043
1.39037	0.00034	1.39037	2883.187	4033.512
-1.04916	0.44591	0.95315	1980.038	1900.202
1.17207	0.81737	1.17207	58.60467	67.83214
-1.13722	0.28197	0.87934	523.115	465.3008
-1.18589	0.00234	0.84325	4005.868	3359.278
-1.10354	0.59433	0.90617	323.5368	292.2473
1.0371	0.64163	1.0371	3708.145	3852.624
1.11015	0.75478	1.11015	138.6201	152.931
1.13203	0.07004	1.13203	3745.555	4203.191
1.16839	0.14779	1.16839	447.9793	521.8112
1.02152	0.76324	1.02152	1010.925	1032.284
-1.04077	0.51174	0.96083	1248.034	1196.49
1.29246	0.62164	1.29246	78.67184	101.8054
-1.02646	0.75361	0.97423	6221.532	6209.827
-1.00033	0.9965	0.99967	1575.115	1568.642
-1.11214	0.38474	0.89916	4541.329	3969.864
-1.12863	0.83996	0.88603	97.99557	90.46268
1.07471	0.27699	1.07471	1195.507	1285.396
1.01519	0.79741	1.01519	4267.957	4350.139
-1.05055	0.88824	0.95188	177.6085	162.7199
1.13557	0.65575	1.13557	198.2887	226.7091
1.07004	0.45091	1.07004	815.074	867.9044
1.09321	0.22419	1.09321	703.8649	768.6672
1.20352	0.05371	1.20352	1140.46	1373.02
-1.2419	0.03106	0.80522	2817.693	2216.913
1.0285	0.90298	1.0285	196.6878	201.2763
-1.13038	0.17045	0.88466	1477.126	1301.363
1.01284	0.87748	1.01284	1052.306	1075.162
-1.31268	0.17791	0.7618	604.9553	451.7415
1.09706	0.40032	1.09706	459.705	502.0739

-1.08312	0.93675	0.92326	54.85929	47.92663
-1.09389	0.34224	0.91417	1115.649	1030.098
-1.02659	0.80695	0.9741	592.0663	582.5005
-1.03893	0.55551	0.96253	5737.264	5450.216
1.07659	0.34638	1.07659	700.8334	752.3712
-1.01845	0.90304	0.98188	314.0831	307.5134
-1.16074	0.70037	0.86152	129.1117	111.4985
1.40307	0.11087	1.40307	412.1623	566.4375
-1.1045	0.12365	0.90538	3128.963	2828.433
-1.11537	0.19007	0.89656	4082.944	3674.804
-1.09754	0.04072	0.91113	5317.401	4833.688
1.22129	0.08141	1.22129	912.7615	1119.874
-1.00592	0.97177	0.99411	293.4439	290.9768
-1.00664	0.90677	0.9934	1241.857	1231.012
1.44248	8.00E-07	1.44248	4787.808	6809.882
-1.16638	0.34106	0.85735	859.7999	751.0454
1.14323	0.2871	1.14323	767.4049	889.6109
-1.14256	0.82165	0.87522	98.03712	86.52502
-1.10298	0.71605	0.90663	226.5748	208.6471
1.00734	0.91875	1.00734	1075.799	1079.888
-1.0805	0.48169	0.9255	3325.112	3005.123
1.03056	0.72331	1.03056	1116.697	1140.072
1.11801	0.36195	1.11801	526.9182	580.969
-1.05584	0.59266	0.94712	573.0519	545.695
1.04147	0.57516	1.04147	884.5987	922.4136
-1.27163	0.74941	0.78639	80.39807	65.48347
-1.0854	0.36594	0.92132	1560.902	1425.852
-1.18924	0.07745	0.84087	1027.369	870.2651
-1.00458	0.95372	0.99544	860.8891	860.0919
1.00747	0.87011	1.00747	2689.876	2708.981
-1.13344	0.29463	0.88227	31074.1	28406.83
1.19253	0.27201	1.19253	398.5666	462.2689
-1.52636	4.04E-07	0.65515	3492.896	2273.345
1.14406	0.20409	1.14406	1421.531	1632.944
-1.12526	0.47847	0.88868	412.3055	365.7089
1.20912	0.04635	1.20912	4064.483	4842.131
-1.02787	0.87401	0.97289	368.0187	360.753
1	1	1	24.09101	23.23478
-1.10943	0.55321	0.90136	388.8985	351.8113
-1.03571	0.62061	0.96552	4195.896	4052.642
1.55508	0.00084	1.55508	14485.41	23394.85
-1.18101	0.15569	0.84673	3963.363	3276.537
-1.37218	0.0168	0.72877	2647.638	1975.952
-1.01276	0.91014	0.9874	490.9927	482.4846
1.08935	0.62573	1.08935	265.0547	293.2252
1.05817	0.89907	1.05817	91.97937	97.21581
-1.36012	5.75E-06	0.73523	2273.509	1682.249
-1.07913	0.23713	0.92667	1224.405	1137.559
-1.1074	0.23613	0.90302	1516.171	1377.655
1.14741	0.16982	1.14741	770.4818	878.3218
1.28732	0.00017	1.28732	2020.899	2608.037
-1.05974	0.51821	0.94362	515.9455	487.9285

1.10351	0.6079	1.10351	492.5748	547.5481
-1.01169	0.91728	0.98844	570.0921	569.6997
1.02255	0.6249	1.02255	499.8297	511.6509
1.02846	0.71987	1.02846	1549.464	1604.78
1.03587	0.65578	1.03587	1274.489	1320.162
1.0074	0.88867	1.0074	1520.116	1531.913
-1.04582	0.573	0.95618	793.8134	762.8687
-1.0493	0.80105	0.95301	332.9638	319.2595
1.06899	0.31684	1.06899	1577.413	1685.409
-1.01084	0.90965	0.98927	4001.953	3996.374
-1.07535	0.16255	0.92993	8069.633	7452.726
-1.09344	0.32073	0.91454	876.9726	802.4077
1.01193	0.86077	1.01193	2153.831	2171.458
-1.04243	0.50226	0.9593	2243.809	2148.71
-1.02102	0.845	0.97942	436.4764	426.4155
1.03882	0.65623	1.03882	1578.378	1632.792
-1.20389	0.05068	0.83064	764.4928	640.211
-1.06754	0.42571	0.93673	577.7662	541.4038
1.0344	0.78322	1.0344	625.1436	637.8388
-1.18842	0.17397	0.84145	788.337	663.4075
-1.27819	0.35973	0.78236	251.2661	193.3501
-1.01632	0.87497	0.98394	748.2175	743.7816
-1.15886	0.00046	0.86292	11079.97	9567.702
-1.09552	0.30142	0.91281	631.3127	579.4321
1.00101	0.9874	1.00101	5553.974	5505.829
-1.06163	0.69264	0.94194	307.2754	291.5763
-1.11753	0.43796	0.89483	537.2191	478.4601
-1.07728	0.14442	0.92826	1663.196	1543.761
1.09914	0.10875	1.09914	2562.303	2829.84
-1.24482	0.01502	0.80333	5121.766	4031.759
-1.02737	0.65514	0.97336	19368.13	18739.28
-1.63256	0.02556	0.61253	301.4146	188.1429
1.03812	0.51238	1.03812	7549.194	7869.971
-1.11612	0.7928	0.89596	147.512	128.5774
1.03488	0.70119	1.03488	5949.858	6226.955
-1.105	0.33949	0.90498	2127.179	1953.419
1.01153	0.93484	1.01153	273.2087	277.1332
-1.12469	0.63108	0.88914	216.0196	191.8228
1.0123	0.94978	1.0123	313.3384	318.4044
-1.01553	0.85195	0.98471	4100.114	4069.061
-1.05035	0.57909	0.95206	7893.293	7653.406
-1.07241	0.11905	0.93248	5720.622	5342.569
1.06684	0.78827	1.06684	248.4218	265.8711
1.0947	0.38459	1.0947	959.9773	1046.295
1.09228	0.05279	1.09228	5361.383	5862.333
1.0428	0.48575	1.0428	2711.213	2820.024
-1.32268	0.00003	0.75604	2832.415	2155.632
1.13996	0.09004	1.13996	2026.573	2338.034
-1.02769	0.62611	0.97306	2382.962	2319.058
-1.03104	0.54875	0.96989	1993.162	1932.563
1.11578	0.21369	1.11578	665.0205	738.5704
1.04854	0.63013	1.04854	4619.911	4755.5

-1.72961	5.47E-08	0.57817	9584.637	5729.36
-1.04521	0.5921	0.95675	1653.504	1569.4
-1.35415	0.00763	0.73847	1401.198	1034.171
1.00872	0.91091	1.00872	1095.35	1104.338
1.06428	0.42951	1.06428	6815.306	7146.73
1.16058	0.13486	1.16058	395.4403	458.593
-1.02056	0.74467	0.97985	2429.873	2382.029
1.24028	0.00732	1.24028	43823.93	53075.81
1.34096	0.00008	1.34096	6963.977	9261.123
1.02215	0.67493	1.02215	1999.636	2043.451
-1.01322	0.88204	0.98695	742.4976	736.621
1.07748	0.7465	1.07748	229.0956	255.4198
1.05003	0.62265	1.05003	613.8069	639.8156
-1.02265	0.78379	0.97785	1239.704	1212.56
-1.06004	0.74554	0.94336	292.1939	276.2028
1.04577	0.69874	1.04577	1471.604	1544.902
-1.12406	0.82068	0.88964	112.6601	102.9439
1.16537	0.04356	1.16537	7730.853	8864.447
-1.2704	0.23402	0.78716	355.6456	281.4674
1.06555	0.7288	1.06555	311.3162	328.7331
1.04257	0.4599	1.04257	2724.723	2844.202
-1.11921	0.05317	0.89348	1664.364	1488.522
-1.17094	0.03229	0.85401	870.2228	743.9716
-1.07267	0.16442	0.93225	4224.316	3925.853
-1.23321	0.05411	0.81089	909.704	743.5212
-1.0149	0.87577	0.98532	463.8125	456.8145
1.00725	0.94771	1.00725	680.2562	677.2041
1.01056	0.93877	1.01056	341.8154	348.2061
1.03332	0.59239	1.03332	1279.073	1321.633
1.28887	0.2109	1.28887	3873.016	5281.645
-1.00056	0.9988	0.99944	151.9641	149.435
1.01653	0.95258	1.01653	194.1863	206.3635
-1.13737	0.07856	0.87922	4439.966	3863.698
1.21917	0.17017	1.21917	282.8077	341.7333
-1.01162	0.86085	0.98851	2381.921	2343.956
1.33029	0.10469	1.33029	345.2964	456.2158
-1.00764	0.89291	0.99242	18196.75	17878.94
1.32197	4.62E-08	1.32197	1071.182	1416.037
-1.10251	0.32682	0.90702	657.3925	593.7638
-1.19273	0.03364	0.83841	6809.443	5791.192
1.09078	0.36292	1.09078	745.8727	807.6754
1.16624	0.02837	1.16624	619.0164	722.2875
-1.1876	0.01071	0.84204	3017.948	2565.696
1.04191	0.69102	1.04191	524.7883	548.1729
-1.11887	0.3627	0.89376	749.5628	668.5678
1.09894	0.2618	1.09894	3973.803	4313.258
-1.01956	0.73667	0.98082	2515.713	2467.04
-1.00235	0.98377	0.99766	426.9949	425.5638
1.18625	0.04828	1.18625	805.8638	953.5502
-1.05975	0.41232	0.94362	2312.415	2168.546
1.1358	0.50885	1.1358	278.7535	315.8552
1.16788	0.16014	1.16788	498.1428	580.9768

-1.04576	0.64313	0.95625	2667.011	2514.743
1.00948	0.88336	1.00948	1221.342	1233.672
-1.5316	0.00002	0.65291	2223.957	1455.094
-1.03513	0.75601	0.96606	1113.999	1082.642
1.0929	0.09994	1.0929	2278.614	2486.614
1.00825	0.90594	1.00825	769.3073	775.7614
-1.01857	0.79058	0.98176	6122.553	5972.197
-1.16576	0.19369	0.85781	1752.185	1490.033
-1.01475	0.92885	0.98546	260.9933	257.1949
-1.1285	0.53379	0.88613	342.9644	300.7175
1.06674	0.58443	1.06674	381.2728	404.264
-1.19604	0.25978	0.83609	752.9706	641.1691
1.24256	0.06473	1.24256	289.233	359.4324
-1.21638	0.01366	0.82211	2006.83	1655.203
1.02678	0.89119	1.02678	208.0841	212.178
1.14891	0.18142	1.14891	1284.252	1484.916
1.3638	0.00015	1.3638	6129.604	8564.394
1.02608	0.82349	1.02608	2525.007	2521.245
1.00005	0.99993	1.00005	99.58117	100.6297
-1.01491	0.80941	0.98531	1523.376	1508.454
1.12666	0.755	1.12666	116.7464	127.2272
-1.0005	0.99628	0.9995	733.496	725.5176
1.0045	0.94797	1.0045	1120.783	1120.686
-1.31934	0.11231	0.75796	1267.715	958.4598
1.19695	0.0331	1.19695	3761.892	4552.111
-1.24329	0.00324	0.80432	795.03	639.6798
1.05975	0.63365	1.05975	1060.238	1113.688
-1.01465	0.81999	0.98556	950.4439	937.0907
1.03492	0.89407	1.03492	190.5369	198.0593
-1.03419	0.62542	0.96694	1417.497	1378.002
1.02546	0.76441	1.02546	940.264	959.1142
1.35255	0.08762	1.35255	309.4994	409.3773
-1.0087	0.89407	0.99137	3577.625	3549.584
1.00923	0.91181	1.00923	662.3588	669.9179
-1.0106	0.88765	0.98951	977.8272	969.7382
1.13569	0.26304	1.13569	385.0709	434.8805
1.02781	0.92017	1.02781	173.0886	178.5381
1.00605	0.96138	1.00605	310.7702	313.7722
1.01293	0.86558	1.01293	683.247	693.8318
-1.06769	0.34528	0.9366	6051.897	5626.827
-2.19328	9.22E-08	0.45594	983.7488	454.7574
1.02459	0.68019	1.02459	2364.966	2428.488
-1.18745	0.05554	0.84214	9906.679	8582.626
-1.04866	0.8321	0.95359	207.7879	197.9334
-1.47474	0.00003	0.67809	1280.681	871.6053
1.00069	0.99673	1.00069	302.8439	308.3766
-1.02923	0.87901	0.9716	398.4459	394.5537
-1.23412	0.00318	0.81029	13171.92	10852.23
1.0637	0.55905	1.0637	664.6771	700.7354
1.11672	0.60288	1.11672	195.1971	221.2637
1.1134	0.34535	1.1134	2211.184	2497.403
1.15716	0.00665	1.15716	3733.152	4332.005

-1.0143	0.91472	0.9859	709.0079	687.0134
-1.01407	0.85991	0.98613	587.0667	578.1625
-1.04578	0.6307	0.95622	994.6688	959.4197
1.26237	0.07578	1.26237	694.0901	863.9258
1.36207	0.0122	1.36207	500.0064	671.8552
1.06226	0.32664	1.06226	672.5823	714.7593
1.45498	0.00251	1.45498	310.9101	450.419
1.02085	0.82686	1.02085	1561.407	1582.952
1.09386	0.46612	1.09386	442.6084	478.5512
1	1	1	24.69368	21.97653
-1.0632	0.66397	0.94056	375.1246	354.3958
1.02133	0.70742	1.02133	1177.812	1204.368
-1.01997	0.78691	0.98042	11757.09	11361.22
1.00557	0.98827	1.00557	121.1006	118.8651
1.0236	0.9235	1.0236	197.8805	203.1455
-1.15236	0.01236	0.86778	1455.804	1263.27
1.0071	0.9169	1.0071	690.9277	696.2438
1.07588	0.22482	1.07588	885.3226	952.6157
-1.1025	0.75464	0.90703	177.7118	161.9
1.45847	0.27589	1.45847	110.9707	166.6811
-1.02456	0.70276	0.97603	1778.075	1735.972
1.03199	0.7768	1.03199	717.4363	733.4719
1.01531	0.74032	1.01531	2579.023	2619.194
1.40686	5.36E-08	1.40686	11923.08	16554.75
-1.01555	0.83082	0.98468	624.5387	614.3328
-1.0108	0.91367	0.98931	6146.356	5964.838
1.02059	0.71142	1.02059	2078.183	2121.904
-1.00008	0.99912	0.99992	1858.508	1857.758
1.06128	0.9058	1.06128	105.0469	109.0748
1.02419	0.93835	1.02419	163.4733	163.2274
-1.02457	0.75036	0.97602	2879.699	2818.939
1.03877	0.41604	1.03877	13697	14250.13
1.04002	0.42764	1.04002	44416.17	45987.62
1.34405	3.31E-06	1.34405	5200.513	6928.896
-1.25749	0.25381	0.79523	400.493	328.4517
1.00741	0.94121	1.00741	3826.676	3731.6
-1.09728	0.07865	0.91134	4644.794	4219.642
1.24968	0.02047	1.24968	708.9833	891.3407
-1.73117	0.00418	0.57764	572.0941	344.392
1.72557	0.0001	1.72557	842.0971	1461.508
1.05816	0.9477	1.05816	48.48857	54.76901
-1.52377	0.04164	0.65627	1502.759	961.6028
1.21885	0.02273	1.21885	745.3679	902.9506
-1.67884	1.48E-07	0.59565	5414.906	3121.751
1.02372	0.83981	1.02372	798.5496	807.6112
1.54675	2.57E-23	1.54675	19517.83	30230.03
-1.00455	0.97269	0.99547	347.8582	349.2911
-1.13344	0.39206	0.88227	640.2634	577.7445
1.17358	0.00121	1.17358	3684.609	4336.485
-1.13894	0.48514	0.87801	519.8022	472.7365
1.13336	0.23768	1.13336	444.063	500.1671
-1.2843	0.06377	0.77863	816.8196	646.0471

1.02743	0.97254	1.02743	64.1684	67.42454
-1.56201	7.48E-07	0.6402	10055.01	6490.5
1.15954	0.09315	1.15954	1048.298	1219.801
-1.0068	0.92458	0.99325	828.6984	823.7147
1.01441	0.84643	1.01441	4747.937	4815.941
1.01512	0.79939	1.01512	1133.658	1151.558
-1.25545	0.81648	0.79653	58.49805	48.87104
1.24843	0.01764	1.24843	475.439	591.1108
-1.29301	0.00669	0.77339	952.4125	734.004
-1.13673	0.42536	0.87972	489.4013	425.7704
1.03626	0.93184	1.03626	121.4172	127.0312
3.13926	0	3.13926	1081.754	3407.528
1.39246	9.52E-13	1.39246	3988.193	5564.651
-1.04428	0.67845	0.9576	583.6527	557.942
1.17136	0.08679	1.17136	1455.199	1695.318
-1.6554	0.00008	0.60408	1148.671	698.5614
1.01897	0.8711	1.01897	461.8773	469.1141
1.03855	0.52413	1.03855	1051.59	1092.164
-1.28728	0.19316	0.77683	395.0778	318.5309
-1.22914	0.00041	0.81358	1188.355	967.5206
-1.00545	0.9296	0.99458	927.7548	923.9345
1.1261	0.12313	1.1261	706.1118	792.7026
-1.20716	0.56791	0.82839	185.3729	151.3582
1.11241	0.21604	1.11241	614.1057	686.2003
1.0242	0.65539	1.0242	9427.469	9601.87
1.20359	0.58213	1.20359	110.4555	132.2323
-1.05689	0.63881	0.94618	4261.276	3905.293
1.01642	0.78926	1.01642	1111.29	1128.917
1.03431	0.5225	1.03431	2085.281	2156.09
1.04776	0.43439	1.04776	1110.743	1163.791
1.00538	0.91795	1.00538	4199.368	4234.603
-1.48274	0.0005	0.67443	828.8297	564.6671
1.24475	0.10343	1.24475	1989.558	2520.661
1.03622	0.88911	1.03622	215.0344	224.7096
1.11139	0.03777	1.11139	14868.08	16436.26
-1.02821	0.61263	0.97256	4776.1	4637.587
1.23835	3.55E-06	1.23835	4746.445	5884.797
1.00562	0.92767	1.00562	2800.621	2811.374
-1.3547	0.00249	0.73817	46697.74	35492.48
-1.12799	0.05283	0.88653	3129.068	2774.477
-1.06882	0.28046	0.93561	797.2843	746.1937
1.23305	0.61569	1.23305	120.7748	137.2925
1.07355	0.31443	1.07355	35310.03	38266.54
1.03305	0.58228	1.03305	3773.572	3872.754
-1.02827	0.76281	0.97251	2285.256	2219.199
1.17688	0.23634	1.17688	3775.992	4568.455
-1.04525	0.52853	0.95671	4892.796	4705.671
1.00845	0.90479	1.00845	648.4572	654.469
1.33274	0.00023	1.33274	1483.979	1992.218
1.10482	0.70039	1.10482	206.1888	230.1597
1.00481	0.9398	1.00481	1609.853	1618.797
-1.03693	0.89488	0.96439	220.0329	216.5591

-1.04897	0.65827	0.95332	721.0365	694.3922
1.02397	0.76578	1.02397	13522.88	14097.3
1.05614	0.62943	1.05614	741.6829	791.1829
-1.01797	0.95721	0.98235	168.984	163.751
1.14515	0.13273	1.14515	1122.301	1284.383
1.10473	0.22366	1.10473	945.1823	1037.839
1.02279	0.8816	1.02279	910.2141	914.4089
-4.53712	4.97E-10	0.2204	1444.638	316.22
1.10849	0.4866	1.10849	554.0959	631.9053
1.0454	0.81048	1.0454	267.6222	279.496
1.03333	0.71446	1.03333	663.1852	681.6169
1.11429	0.15247	1.11429	17375.65	19139.86
1.01026	0.82881	1.01026	2164.017	2186.337
-1.0086	0.91998	0.99147	925.6405	913.3492
-1.03421	0.47869	0.96692	2468.053	2387.387
-1.20511	0.10164	0.8298	1315.036	1093.282
-1.1598	0.12282	0.86222	7381.22	6155.736
-1.01293	0.90199	0.98723	2377.059	2376.292
-1.00338	0.98626	0.99663	191.5544	190.8917
-1.111	0.38856	0.90009	565.568	516.0148
1.0433	0.44331	1.0433	1365.517	1424.854
-1.19614	0.24226	0.83602	336.14	279.0963
1.17144	0.34599	1.17144	285.7211	340.0455
1.01628	0.95664	1.01628	148.7487	149.2134
1.07836	0.41389	1.07836	865.4793	935.9374
-1.06814	0.33621	0.93621	1483.311	1389.275
-1.111	0.39425	0.90009	549.4448	493.9018
-1.01803	0.87673	0.98229	448.5118	444.2607
1.11693	0.84496	1.11693	84.37799	93.31788
-1.0611	0.39687	0.94242	1786.352	1676.11
1.46617	3.24E-09	1.46617	700.1106	1026.467
1.01786	0.82294	1.01786	4304.481	4354.517
1.02865	0.73285	1.02865	1547.182	1583.474
1.10269	0.07489	1.10269	4881.587	5405.082
1.06451	0.27461	1.06451	17511.7	18687.52
-1.09061	0.57462	0.91692	500.3565	471.4919
1.08605	0.6989	1.08605	218.776	237.7716
1.1643	0.14955	1.1643	2466.465	2888.613
1.0046	0.93077	1.0046	1291.029	1296.332
1.18055	0.24706	1.18055	8629.838	10747.21
-1.00109	0.98937	0.99891	2980.48	2984.406
-1.07197	0.45036	0.93287	3099.842	2848.145
-1.08448	0.2444	0.9221	952.7918	879.3452
1.04013	0.45689	1.04013	1877.934	1952.58
1.14815	0.20926	1.14815	376.3948	430.4359
-1.03558	0.82958	0.96564	348.2224	336.6977
-1.07069	0.43638	0.93398	5461.979	5057.616
-1.34723	0.11324	0.74227	1070.061	804.3679
1.14653	0.56416	1.14653	193.2634	220.8726
1.2455	0.00142	1.2455	2596.991	3250.626
1.22929	0.72744	1.22929	68.44541	81.31239
1.20045	0.01799	1.20045	739.3398	887.9207

1.58411	2.31E-08	1.58411	11864.69	19195.32
1.01834	0.7078	1.01834	10549.87	10708.36
-1.06559	0.66962	0.93844	378.0267	355.2291
-2.19312	1.45E-08	0.45597	14812.43	6340.934
-1.02769	0.73071	0.97305	1337.498	1305.618
-1.16587	0.02729	0.85773	1348.294	1162.877
1.14375	0.37327	1.14375	480.499	537.7622
1.1257	0.09636	1.1257	992.4496	1118.242
1.00361	0.97644	1.00361	379.5909	378.0844
-1.08823	0.26205	0.91893	850.7261	778.2172
-1.01038	0.93861	0.98972	367.4185	363.5536
1.07316	0.13941	1.07316	1653.348	1774.337
1.00467	0.97696	1.00467	354.4875	363.5143
1.08571	0.33497	1.08571	702.4168	765.2877
1.01787	0.71026	1.01787	4613.396	4700.554
-1.00433	0.96649	0.99569	881.8879	873.7721
-1.91172	5.62E-12	0.52309	4052.584	2073.674
-1.01038	0.92376	0.98972	5641.912	5846.821
1.14661	0.32044	1.14661	644.7263	733.3124
1.14331	0.04908	1.14331	3979.128	4586.263
-1.14265	0.523	0.87516	253.6572	226.8603
1.03813	0.51107	1.03813	3401.68	3506.338
-2.25494	3.74E-22	0.44347	6155.048	2761.036
1.29642	0.0001	1.29642	1438.671	1867.397
-1.01248	0.85526	0.98768	1553.288	1531.844
1.12574	0.18947	1.12574	410.9746	462.7976
1.49087	8.22E-11	1.49087	7988.736	12040.96
1.11558	0.67176	1.11558	192.8904	215.3738
1.05271	0.5775	1.05271	1093.247	1138.822
-1.13131	0.23627	0.88393	865.9276	772.3589
1.04228	0.55878	1.04228	10794.29	11329.45
-1.0133	0.84645	0.98688	748.4579	739.5654
-1.01337	0.86057	0.98681	2083.512	2057.558
1.10152	0.88962	1.10152	63.85388	70.24809
-1.01412	0.98266	0.98608	79.40021	72.7874
1.06633	0.4812	1.06633	910.5164	963.7424
1.07945	0.35041	1.07945	5277.273	5677.172
-1.01657	0.86375	0.9837	935.2167	923.9888
-1.01417	0.84051	0.98603	1012.485	1002.721
-1.03807	0.57312	0.96332	8508.584	8163.15
-1.06141	0.50518	0.94215	1937.141	1809.632
-1.01651	0.76378	0.98376	1018.042	1000.793
-1.047	0.88506	0.95511	162.8036	155.4417
-1.07041	0.90984	0.93423	92.98076	87.87601
-1.11104	0.01537	0.90005	8966.755	8063.459
1.02213	0.7501	1.02213	7753.618	7973.699
-1.11428	0.31478	0.89744	1671.843	1497.022
-1.03057	0.81685	0.97034	418.7542	410.9583
-1.07032	0.24993	0.9343	1119.553	1047.969
1.06067	0.24068	1.06067	9177.053	9782.037
1.05469	0.2552	1.05469	2266.157	2390.881
-1.19389	0.03596	0.8376	1610.794	1361.163

1.03542	0.53196	1.03542	3064.6	3178.351
-1.13703	0.0987	0.87948	1083.537	954.5718
-1.05455	0.92431	0.94828	79.9946	76.06577
1.68215	6.87E-06	1.68215	413.3091	702.1808
1.2432	0.31974	1.2432	237.9651	288.313
-1.02434	0.80809	0.97624	820.5584	809.2658
-2.69585	0.00522	0.37094	336.7477	129.3874
-1.10055	0.80347	0.90864	151.1599	136.4538
-1.08354	0.16508	0.9229	2880.119	2662.198
-1.07854	0.2973	0.92718	2034.924	1893.255
1.01208	0.85896	1.01208	2040.781	2063.867
1.10833	0.39323	1.10833	505.5458	567.4739
-1.17219	0.09691	0.8531	1729.922	1465.626
-1.05082	0.6264	0.95163	527.366	505.0518
1.00589	0.94396	1.00589	2263.869	2265.292
-1.05921	0.84049	0.9441	200.4175	190.1013
1.09588	0.21301	1.09588	905.5736	993.7235
1.16907	0.25003	1.16907	678.116	780.7003
1.04883	0.51866	1.04883	618.419	647.2417
-1.06481	0.14478	0.93914	4893.683	4590.355
-1.17323	0.68009	0.85235	164.2917	135.2775
-1.33774	6.01E-09	0.74753	2072.539	1549.464
-1.00766	0.93033	0.99239	898.8656	888.0924
-1.08053	0.50479	0.92547	13324.07	11614.96
-1.6082	1.53E-07	0.62181	1709.627	1061.733
-1.13967	0.04833	0.87745	1027.439	902.5131
-1.0601	0.35519	0.94331	674.8303	636.5443
1.23877	0.05852	1.23877	868.2003	1083.424
-1.02483	0.7224	0.97577	1462.898	1434.058
1.17516	0.61591	1.17516	144.7571	165.2199
-1.59164	0.05145	0.62828	535.902	333.4925
1.1438	0.03798	1.1438	1502.285	1718.014
-1.00678	0.87557	0.99326	3025.071	3004.917
-1.12649	0.17551	0.88772	7928.896	6886.261
-1.23495	0.03507	0.80975	1338.728	1082.255
-1.00014	0.99837	0.99986	4195.851	4193.713
1.11116	0.83389	1.11116	101.0619	114.3918
-1.01295	0.96008	0.98722	243.9623	232.6149
-1.02613	0.80091	0.97454	752.2765	739.5237
1.03441	0.89436	1.03441	187.1703	190.6595
1.01249	0.87707	1.01249	6201.427	6281.612
-1.01637	0.767	0.98389	1432.828	1410.199
-1.01452	0.80604	0.98569	4287.618	4254.119
-1.05332	0.48851	0.94938	1507.855	1430.947
-1.14871	0.44263	0.87054	444.0353	375.6978
-1.07601	0.8187	0.92936	158.3373	152.2477
1.01396	0.83688	1.01396	3151.681	3168.517
-1.32722	0.02335	0.75346	1005.871	766.0148
-1.07762	0.62074	0.92797	550.3841	504.9992
1.07863	0.77361	1.07863	201.411	218.252
-1.00431	0.96332	0.99571	892.6697	891.0631
1.00598	0.95784	1.00598	621.268	617.7614

-1.06588	0.4465	0.93819	1273.688	1201.641
1.01673	0.88988	1.01673	538.6598	554.2819
1.06623	0.32348	1.06623	775.6228	826.7847
1.08196	0.22497	1.08196	830.7155	898.6805
1.04169	0.80763	1.04169	285.5214	297.6916
-1.04784	0.79467	0.95435	322.8206	306.6524
-1.05314	0.4697	0.94954	1283.378	1216.529
1.32791	0.00004	1.32791	32073.96	43005.84
-1.02148	0.86438	0.97897	606.8767	602.9727
1.00642	0.88678	1.00642	3796.831	3817.571
-2.38028	1.38E-12	0.42012	1096.12	455.72
1.04098	0.86547	1.04098	244.6054	251.5893
1.02886	0.51205	1.02886	6296.117	6477.498
1.08895	0.18816	1.08895	1039.926	1130.327
1.02875	0.53708	1.02875	2278.146	2344.005
1.09334	0.9092	1.09334	53.38467	58.75092
1.04794	0.32271	1.04794	3089.054	3241.667
1.07401	0.88725	1.07401	78.08995	84.19714
1.31102	0.393	1.31102	155.8925	194.8044
1.03184	0.72109	1.03184	784.5382	813.7745
1.12844	0.31586	1.12844	591.5807	658.4304
-1.13284	0.21642	0.88274	4065.294	3514.569
1.09212	0.60776	1.09212	331.664	354.9666
-1.08013	0.48444	0.92581	683.381	639.9572
-1.09442	0.47135	0.91373	660.5954	609.9354
1.05084	0.31057	1.05084	8696.707	9169.914
1.01587	0.8354	1.01587	647.8491	657.2593
-1.05749	0.36282	0.94564	3666.943	3440.982
1.15765	0.22659	1.15765	362.1332	418.6522
1.04828	0.55753	1.04828	1085.56	1133.825
1.08482	0.39234	1.08482	756.311	825.7774
1.0406	0.55706	1.0406	1115.209	1158.487
-1.03224	0.68665	0.96877	1214.285	1179.397
-1.11597	0.44568	0.89608	570.0633	522.3859
-1.00512	0.94635	0.99491	5793.376	5663.852
1.07494	0.47433	1.07494	790.9655	856.8183
1.10481	0.69275	1.10481	133.3315	147.2408
1.28583	0.00899	1.28583	1396.718	1809.688
1.20392	0.00006	1.20392	19929.03	24073.29
1.01121	0.86939	1.01121	869.6896	880.9881
1.00298	0.95612	1.00298	3161.646	3165.836
-1.03741	0.61556	0.96394	4080.327	3966.525
-1.06496	0.52447	0.939	1680.229	1586.241
1.13882	0.07621	1.13882	778.2373	885.4053
1.03331	0.78805	1.03331	517.5159	527.985
-1.01934	0.78667	0.98102	9980.601	9664.576
-1.01234	0.96115	0.98781	167.673	165.6487
1.03681	0.71863	1.03681	2313.645	2372.614
1.23056	0.00046	1.23056	3189.941	3940.985
1.00652	0.91967	1.00652	4338.921	4330.015
-1.16264	0.29803	0.86011	483.364	424.2833
-1.04216	0.90862	0.95955	162.4283	152.6866

1.00628	0.91556	1.00628	3346.93	3363.719
-1.00047	0.997	0.99953	454.2701	453.9689
1.10873	0.59079	1.10873	315.4264	352.3489
-1.47647	0.0042	0.67729	719.9337	495.0324
-1.4589	0.00315	0.68545	1881.419	1272.981
-1.04631	0.53006	0.95574	16289.34	15778.67
1.00288	0.98839	1.00288	335.7231	336.6657
-1.07408	0.71469	0.93103	336.8192	310.1443
1.20032	0.00569	1.20032	1432.88	1722.032
-1.10804	0.61025	0.9025	516.9693	489.9084
-1.02833	0.68375	0.97245	2303.781	2247.073
1.26509	6.82E-06	1.26509	6669.482	8490.343
1.00439	0.9467	1.00439	1877.512	1885.824
-1.02175	0.72748	0.97871	1860.383	1818.995
-1.11649	0.18099	0.89566	1293.305	1158.794
1.10248	0.05459	1.10248	2569.267	2829.612
-1.03308	0.64233	0.96798	2336.213	2269.998
-1.12397	0.53105	0.8897	304.791	271.2427
1.09858	0.48254	1.09858	784.5471	850.5324
-1.0765	0.27451	0.92894	1333.77	1237.85
-1.05765	0.2536	0.9455	16500.41	15513.99
1.01276	0.83279	1.01276	920.4215	932.4824
-1.10392	0.33201	0.90587	640.2162	584.6274
-1.68967	0.00007	0.59183	1034.802	618.1343
1.08788	0.85854	1.08788	119.3575	125.0589
-1.1606	0.00194	0.86162	3348.569	2887.546
-1.01502	0.82981	0.98521	851.0306	840.0573
1.01315	0.81117	1.01315	1250.757	1269.574
-1.01014	0.88185	0.98996	1183.801	1176.156
1.0058	0.92186	1.0058	1047.079	1051.038
-1.16347	0.25451	0.85949	912.6039	783.4076
1.06388	0.47554	1.06388	4371.17	4665.763
-1.00029	0.99568	0.99971	2690.865	2692.306
-1.37297	0.0563	0.72835	570.1158	437.3471
1.17511	0.07451	1.17511	700.9209	828.7922
-1.20495	0.18082	0.82991	662.682	546.2089
1.19386	0.0733	1.19386	1162.148	1391.351
-1.20571	0.17188	0.82938	746.6952	630.4579
-1.05344	0.41165	0.94927	1218.677	1156.417
-1.01385	0.77469	0.98634	3710.459	3659.867
-1.3132	0.08481	0.7615	4103.209	3060.531
1.02898	0.79829	1.02898	355.8605	367.3294
-1.07727	0.44829	0.92827	640.1335	597.7046
-1.93689	0.00059	0.51629	1703.34	849.9558
1.01909	0.86814	1.01909	2747.709	2864.757
1.05892	0.51384	1.05892	4423.304	4602.732
1.25822	0.00082	1.25822	5381.904	6705.707
-1.04056	0.92829	0.96102	108.2699	105.5819
-1.00421	0.95187	0.99581	983.6654	979.3371
1.11169	0.54635	1.11169	245.4162	269.5723
1.16437	0.00671	1.16437	25650.72	30067.36
1.01416	0.85851	1.01416	619.8274	629.574

1.31477	0.01787	1.31477	468.392	609.0599
-1.03885	0.51034	0.9626	1134.854	1092.28
1.09333	0.06606	1.09333	29188.53	31788.29
-1.12567	0.21214	0.88836	3847.085	3360.27
1.02662	0.8906	1.02662	356.6941	369.6505
1.09848	0.17713	1.09848	1011.103	1109.873
-1.08312	0.6551	0.92326	406.7725	381.6989
-1.60417	2.02E-07	0.62338	1015.387	630.4724
1.02465	0.77094	1.02465	649.6086	662.4954
-1.02686	0.70086	0.97384	3812.328	3705.652
1.47241	1.70E-10	1.47241	1656.329	2430.975
1.0956	0.75771	1.0956	125.4094	138.1346
1.13216	0.46574	1.13216	281.8094	313.8352
-1.03028	0.55845	0.97061	4401.821	4270.883
1.11085	0.20244	1.11085	351.5216	387.5199
-1.06359	0.79428	0.94021	257.7035	240.7206
1.03825	0.48552	1.03825	1209.759	1255.849
-1.21716	0.07334	0.82158	958.7528	797.4476
1.27473	0.01095	1.27473	415.1816	527.7316
1.29348	0.00241	1.29348	11714.21	14830.7
1.12399	0.14669	1.12399	1621.413	1812.571
-1.28979	0.10496	0.77532	1279.312	1009.162
1.06151	0.46922	1.06151	1679.302	1786.021
-1.00665	0.96996	0.99339	255.6743	254.7719
1.07512	0.15672	1.07512	1726.53	1855.384
1.0068	0.87902	1.0068	5650.255	5687.692
1.07078	0.31783	1.07078	1278.042	1366.097
-1.36634	0.80648	0.73188	42.49577	34.78325
1.03159	0.68032	1.03159	1037.881	1069.885
-1.09324	0.46644	0.91471	461.0004	424.5576
1.01121	0.9017	1.01121	829.9638	844.3336
-1.01376	0.85113	0.98643	995.6148	981.8944
-1.06778	0.56875	0.93652	911.2365	859.426
-1.03626	0.60468	0.96501	2810.347	2701.423
-1.02156	0.67955	0.9789	5994.034	5858.984
-1.06483	0.39108	0.93912	1304.358	1225.16
-1.09488	0.31447	0.91334	914.2628	838.1876
-1.1722	0.00329	0.85309	5267.253	4470.214
-1.01675	0.8515	0.98352	1488.347	1461.151
1.0383	0.60622	1.0383	819.1238	849.7437
1.08457	0.70914	1.08457	283.3282	309.9834
1.11219	0.30949	1.11219	362.3328	404.1866
-1.10894	0.40483	0.90176	587.5383	537.3511
1.04857	0.59888	1.04857	640.9956	675.9547
-1.01261	0.8841	0.98755	605.9028	597.88
-1.14932	0.47007	0.87008	398.5341	345.0004
1.29497	0.28137	1.29497	275.6278	371.0336
-1.53035	0.00004	0.65345	4022.289	2535.782
1.00181	0.99553	1.00181	194.8858	188.6055
-1.0173	0.72533	0.983	1813.599	1783.046
-1.37323	0.02699	0.72821	2208.771	1550.506
1.25715	0.00016	1.25715	1726.34	2163.487

1.1309	0.18851	1.1309	28477.34	33023.57
-1.00781	0.9527	0.99225	382.1783	375.3643
-1.18268	0.118	0.84553	1332.432	1127.313
1.20183	0.05416	1.20183	2614.118	3114.627
1.30498	0.31436	1.30498	161.1186	207.9367
1.50624	3.41E-12	1.50624	6775.246	10139.24
1.04192	0.58117	1.04192	803.7622	838.7832
1.32451	0.00029	1.32451	1116.822	1478.011
-1.00175	0.99542	0.99825	124.6904	124.4283
1.02361	0.62583	1.02361	9902.86	10132.07
1.11363	0.189	1.11363	1358.875	1514.573
1.15248	0.4122	1.15248	316.1841	373.5815
1.00486	0.97069	1.00486	432.9086	441.0587
1.20772	0.00623	1.20772	7841.895	9541.362
1.03353	0.57745	1.03353	2862.282	2966.047
1.10533	0.09604	1.10533	1749.417	1932.312
1.1636	0.00372	1.1636	5877.423	6800.598
-1.06998	0.12663	0.9346	2883.039	2694.981
-1.11928	0.43989	0.89343	492.7302	449.5837
-1.07923	0.69545	0.92658	310.5168	289.78
-1.08344	0.42489	0.92299	1024.021	945.8504
-1.0389	0.59247	0.96256	702.7445	677.1641
-1.11156	0.2698	0.89964	740.7781	670.7208
-1.22783	0.05631	0.81444	2523.063	1997.005
1.07143	0.3532	1.07143	828.1106	886.1804
-1.24672	0.00034	0.8021	2002.275	1603.463
1.22113	0.06167	1.22113	1614.73	1958.394
-1.0208	0.79892	0.97963	727.2805	716.0681
-1.01369	0.88646	0.9865	1186.398	1174.569
1.18083	0.23916	1.18083	377.9982	439.4224
-1.041	0.75726	0.96061	800.8958	781.4865
1.02664	0.82844	1.02664	520.5625	541.5033
-1.02157	0.96839	0.97888	107.8242	101.2756
1.14548	0.1332	1.14548	4810.791	5607.976
1.24809	0.06105	1.24809	8426.021	10341.81
1.06899	0.60355	1.06899	590.8984	622.0967
1.00122	0.98841	1.00122	2361.207	2351.376
1.06505	0.39669	1.06505	3015.154	3216.567
-1.00981	0.85614	0.99029	1564.732	1549.443
-1.14045	0.54425	0.87685	207.9521	184.5976
1.04574	0.81128	1.04574	230.4049	239.4586
1.06845	0.89	1.06845	111.217	118.7028
-1.00676	0.95441	0.99329	483.8464	479.9963
1.01139	0.89911	1.01139	740.6405	753.4011
1.00649	0.95633	1.00649	332.3773	334.7275
-1.03909	0.63246	0.96238	1036.882	998.2025
1.02408	0.68755	1.02408	1397.116	1431.079
-1.06194	0.65542	0.94167	319.6445	302.4819
1.00215	0.96776	1.00215	6224.182	6240.52
1.02556	0.9158	1.02556	159.2743	165.0586
1.03997	0.93941	1.03997	120.206	135.3513
-1.11155	0.19068	0.89964	914.6909	825.7736

-1.06818	0.47211	0.93617	1063.58	998.358
-1.18187	0.10467	0.84612	2102.881	1798.468
1.03747	0.68594	1.03747	528.98	550.3975
-1.07981	0.54568	0.92609	483.139	448.7054
1.09442	0.55183	1.09442	323.1736	349.4809
1.09593	0.16891	1.09593	609.7446	668.3129
1.07235	0.23895	1.07235	2598.46	2777.428
-1.04125	0.8931	0.96038	181.9302	173.3802
-1.04486	0.79625	0.95707	246.5981	238.041
-1.0131	0.95112	0.98706	227.5287	222.4657
1.17379	0.00832	1.17379	1338.462	1570.347
1.21286	0.0241	1.21286	1217.256	1472.35
1.53372	0.00017	1.53372	471.5229	715.482
1.07341	0.1008	1.07341	3105.293	3332.764
1.01073	0.88072	1.01073	1884.259	1905.083
1.0164	0.84924	1.0164	2710.74	2747.045
1.14663	0.64503	1.14663	156.0896	173.3572
1.42332	3.12E-09	1.42332	23877.97	33689.45
-1.09261	0.49923	0.91524	318.4774	290.1473
-1.18296	0.14076	0.84534	2279.959	1923.926
-1.00577	0.9369	0.99426	1331.401	1325.928
1.01883	0.81468	1.01883	1096.831	1115.538
1.01898	0.85554	1.01898	648.9512	667.7497
-1.0964	0.56399	0.91208	458.3602	415.0105
1.37529	0.04687	1.37529	308.0711	415.3309
1.18404	0.05919	1.18404	8339.706	10019.65
1.07922	0.45067	1.07922	1828.304	1987.683
1.23805	0.25792	1.23805	190.9582	237.4863
-1.10868	0.27626	0.90197	838.6329	761.2264
-1.13222	0.8295	0.88322	71.94607	64.15232
-1.05991	0.75727	0.94348	452.3917	405.0697
-1.04908	0.9233	0.95322	110.7483	106.9537
-1.06267	0.75872	0.94102	254.9076	239.4333
-1.20601	0.02717	0.82918	1910.302	1593.447
-1.2009	0.25564	0.83271	422.635	358.9057
-1.06401	0.52311	0.93984	659.6901	619.1102
1.09685	0.11329	1.09685	1918.455	2110.061
1.05302	0.74822	1.05302	315.911	336.0475
-1.18781	0.28391	0.84189	771.6819	644.7543
1.13617	0.39002	1.13617	367.8858	417.3979
1.09834	0.05068	1.09834	1956.222	2148.213
1.02257	0.88645	1.02257	632.4928	663.5879
-1.18413	0.70332	0.8445	133.9509	113.0319
1.16623	0.59604	1.16623	194.7642	232.1151
1.03719	0.70606	1.03719	960.4794	993.177
-1.0175	0.88108	0.9828	2234.989	2242.388
-1.00864	0.87235	0.99143	3158.749	3141.206
1.16001	0.50003	1.16001	503.6539	584.2798
1.18332	0.00033	1.18332	2293.727	2712.919
-1.20535	0.06441	0.82963	3004.72	2442.487
-1.1109	0.1433	0.90017	2439.663	2181.636
1.00305	0.97052	1.00305	505.6393	508.2226

-1.04046	0.55672	0.96112	1723.793	1672.713
1.00396	0.96521	1.00396	563.4617	563.8464
-1.11816	0.56643	0.89433	729.4442	626.4756
-1.0552	0.24659	0.94769	2089.717	1980.779
-1.09907	0.07782	0.90986	8282.781	7481.283
-1.05218	0.56493	0.95041	682.2884	651.0175
-3.50059	1.28E-25	0.28567	984.6865	279.5486
-1.08075	0.17677	0.92529	2502.672	2314.093
1.221	0.00133	1.221	2933.766	3597.241
-1.18449	0.03813	0.84425	4915.48	4080.587
-1.02959	0.80992	0.97126	479.14	464.6347
1.00832	0.88263	1.00832	3906.878	3939.46
1.04377	0.44387	1.04377	1133.773	1183.598
1.04895	0.65487	1.04895	596.9207	620.2303
1.10293	0.08167	1.10293	4308.071	4729.054
1.02787	0.98733	1.02787	24.68438	21.60646
-1.03909	0.65438	0.96238	1131.702	1099.63
1.22183	0.21522	1.22183	274.63	337.0858
1.17908	0.07392	1.17908	1247.605	1464.404
1.01044	0.89398	1.01044	646.4087	652.6239
-1.10608	0.69252	0.90409	224.8385	204.9366
1.16212	0.00603	1.16212	3392.604	3963.276
-1.04963	0.69614	0.95272	510.2628	492.3348
-1.03231	0.82561	0.9687	392.3912	379.7831
1.2017	0.00019	1.2017	1512.518	1819.791
-1.09198	0.21301	0.91577	1182.324	1081.848
1.02554	0.64409	1.02554	1247.37	1277.74
1.07456	0.34591	1.07456	530.7599	570.3934
-1.00131	0.98914	0.99869	498.7623	495.4901
-1.01933	0.75911	0.98104	1527.861	1490.366
1.81257	3.48E-06	1.81257	510.7877	915.1054
1.28527	0.00025	1.28527	8006.994	10111.09
1.15135	0.53937	1.15135	159.8571	184.1842
-1.12497	0.15373	0.88891	702.276	626.415
1.19578	0.00028	1.19578	2122.951	2538.677
-1.06624	0.79044	0.93787	165.8524	156.5393
1.004	0.95732	1.004	2095.534	2096.558
1.0335	0.54094	1.0335	1648.058	1702.238
1.01572	0.82584	1.01572	1543.327	1566.61
1.08347	0.46533	1.08347	3193.087	3466.947
-1.05518	0.51486	0.9477	1196.821	1140.202
-1.09314	0.56051	0.9148	373.0233	343.1414
-1.19697	0.00026	0.83544	1867.361	1560.031
1.02843	0.65458	1.02843	1377.464	1409.635
1.12007	0.13596	1.12007	8196.641	9324.482
-1.06273	0.4815	0.94097	535.1859	505.3887
-1.01243	0.83085	0.98772	2471.648	2448.761
-1.02874	0.60416	0.97206	1624.309	1579.745
-1.47269	0.03596	0.67903	420.3383	288.7702
1.01703	0.94373	1.01703	236.8704	242.3471
-2.24531	6.08E-06	0.44537	834.9003	380.3933
-1.15213	0.03301	0.86795	3918.94	3374.578

1.0762	0.27589	1.0762	1418.221	1523.483
-1.02779	0.75356	0.97296	975.2741	952.3237
1.10236	0.52877	1.10236	258.6408	282.8304
-1.29393	0.08259	0.77284	581.8154	458.5786
-1.00158	0.98065	0.99843	10786.38	10697.38
-1.07391	0.3836	0.93117	1613.298	1510.123
-1.06353	0.24477	0.94027	8863.86	8374.355
1.09039	0.52417	1.09039	343.4919	378.5014
1.2996	0.01362	1.2996	668.3117	860.3789
-1.11009	0.45593	0.90083	537.7615	482.2056
-1.0444	0.61593	0.95749	570.0747	543.5073
-1.1377	0.33989	0.87897	1006.399	892.5461
-1.13524	0.09219	0.88087	1155.74	1018.207
1.01475	0.88142	1.01475	867.694	885.7264
1.03795	0.61847	1.03795	1763.797	1845.585
-1.05722	0.57014	0.94587	950.2599	904.5371
-1.10376	0.15714	0.906	3424.033	3132.467
-1.04981	0.83504	0.95255	261.3359	251.1553
-1.07403	0.38306	0.93107	2930.044	2680.975
-1.01385	0.95456	0.98634	194.8984	192.2237
1.05815	0.5184	1.05815	861.2415	906.3897
-1.05168	0.66844	0.95086	900.9356	869.126
-1.05685	0.65337	0.94621	418.0679	396.3233
1.02164	0.82761	1.02164	5982.563	6347.512
-1.06699	0.24326	0.93722	1555.933	1458.868
1.0378	0.43831	1.0378	1608.741	1669.656
-1.04443	0.89959	0.95746	150.1732	144.9814
-1.05322	0.54177	0.94947	1076.047	1028.233
-1.08918	0.68749	0.91812	286.9211	263.3945
-1.08606	0.66506	0.92076	244.6288	228.402
-2.56395	1.57E-13	0.39002	9629.799	3603.563
-1.00106	0.9846	0.99895	5009.481	5035.295
-1.08049	0.30644	0.92551	2369.322	2183.204
-1.0375	0.36517	0.96386	6789.541	6544.034
-1.02432	0.91299	0.97626	292.0955	291.6719
1	1	1	22.2282	22.17564
1.37425	0.00001	1.37425	833.2191	1142.109
1.05192	0.58644	1.05192	5240.104	5354.872
-1.04626	0.88585	0.95579	167.3229	159.2974
1.31642	0.01064	1.31642	1000.399	1323.005
1.39586	0.00143	1.39586	2136.949	3038.956
-1.08797	0.68311	0.91914	225.4489	207.9272
1.02045	0.8803	1.02045	452.0768	459.5746
-1.08703	0.39309	0.91993	698.4832	647.5493
1.00365	0.96935	1.00365	881.1576	875.6661
-1.01328	0.89421	0.98689	6178.456	6221.893
1.09122	0.39682	1.09122	442.1976	481.1088
1.02152	0.77272	1.02152	2355.096	2383.489
1.09547	0.45741	1.09547	2074.557	2301.704
-1.09868	0.95338	0.91018	26.97052	21.76186
1.04858	0.28529	1.04858	1911.771	2004.631
-1.06319	0.19422	0.94057	2200.613	2069.371

1.09228	0.69425	1.09228	241.1949	254.8303
1.15577	0.15036	1.15577	399.5503	462.4269
1.01743	0.76692	1.01743	997.7723	1014.969
-1.06842	0.21205	0.93597	4572.919	4263.289
-1.43409	1.24E-10	0.6973	5493.281	3852.941
-1.03059	0.64338	0.97031	1376.814	1336.276
1.09542	0.52733	1.09542	360.1671	394.9876
-1.03437	0.86804	0.96678	305.3187	292.6112
-1.06983	0.40971	0.93472	829.1196	779.0072
1.04398	0.61093	1.04398	480.728	501.0919
1.12734	0.66569	1.12734	228.4198	243.3226
-1.05767	0.5759	0.94547	700.0695	663.0915
-1.05506	0.41557	0.94781	1407.128	1325.843
-1.11476	0.29862	0.89705	580.1505	524.48
-1.00204	0.97543	0.99797	1547.147	1542.24
-1.52819	4.02E-15	0.65437	24294.45	15822.39
1.10596	0.03821	1.10596	5919.058	6535.237
1.09604	0.29571	1.09604	1775.922	1966.603
-1.03583	0.83442	0.96541	378.9536	364.0124
1.19722	0.13035	1.19722	364.7435	433.3569
2.18101	3.00E-09	2.18101	1814.617	4001.415
-1.169	0.41679	0.85543	277.0316	238.122
1.04312	0.35087	1.04312	2603.113	2713.037
-1.01464	0.76877	0.98557	1745.254	1719.73
-1.07633	0.7428	0.92908	232.6308	216.0367
-1.17805	0.1451	0.84886	6311.067	5186.671
-1.20357	0.41169	0.83086	246.0893	203.8875
-1.086	0.66638	0.92081	343.1218	319.4129
-1.20077	0.00015	0.8328	2036.89	1696.151
-1.05627	0.58974	0.94673	1112.551	1062.185
1.03856	0.66015	1.03856	820.6803	858.5333
1.01242	0.88015	1.01242	1141.209	1163.305
-1.00254	0.99035	0.99747	273.3189	274.3837
-1.08654	0.71704	0.92035	190.8081	177.178
1.00935	0.82833	1.00935	3230.169	3260.786
1.10099	0.50056	1.10099	350.6049	382.0043
1.06828	0.50346	1.06828	1091.166	1171.743
-1.50555	0.00021	0.66421	768.095	515.1668
1.22374	0.61512	1.22374	130.2546	167.8231
1.0265	0.69005	1.0265	3850.53	3951.909
-1.04551	0.70637	0.95647	381.1409	366.6144
1.04505	0.6174	1.04505	433.1677	452.1657
1.07867	0.65074	1.07867	311.9285	338.776
1.74076	7.71E-13	1.74076	1269.89	2223.361
1.01742	0.82668	1.01742	941.2119	962.8419
-1.08589	0.45477	0.9209	545.913	506.7827
1.0796	0.17584	1.0796	2721.575	2935.685
-1.16222	0.67215	0.86043	167.5497	146.2116
1.37125	0.04425	1.37125	333.2698	447.3823
1.24122	0.72384	1.24122	69.68851	90.55198
1.16026	0.02909	1.16026	3418.19	3999.122
-1.15162	0.03062	0.86834	15812.92	13525.34

1.03673	0.70592	1.03673	453.9636	470.6953
-1.21915	0.00111	0.82025	2110.771	1732.083
-1.00897	0.87507	0.99111	2332.298	2302.466
1.06097	0.61252	1.06097	1020.393	1071.947
1.13879	0.70207	1.13879	128.7477	145.5384
1.26839	0.16036	1.26839	452.6323	580.7728
-1.00431	0.94026	0.99571	4812.507	4766.097
-1.23816	0.00002	0.80765	2552.409	2059.24
1.14898	0.24714	1.14898	961.5375	1096.481
-1.06427	0.40736	0.93961	1090.751	1031.239
1.05345	0.56866	1.05345	484.7455	509.5462
1.17058	0.00064	1.17058	4583.476	5352.697
1.08551	0.73997	1.08551	171.9757	184.1877
-1.04161	0.43004	0.96005	2470.597	2380.589
-1.02557	0.63592	0.97507	1782.36	1736.545
-1.12454	0.78567	0.88925	137.1052	124.8599
-1.57815	0.00011	0.63365	478929.1	303474.2
1.00174	0.9801	1.00174	3036.825	3010.684
-1.0137	0.91372	0.98649	512.0245	504.1202
1.09663	0.02963	1.09663	6365.452	6983.96
-1.17278	0.07596	0.85268	35655.02	29527.46
1.00712	0.93664	1.00712	1479.422	1485.502
-1.05647	0.76837	0.94655	274.6581	260.2664
1.04312	0.54243	1.04312	1110.138	1158.469
-1.38044	0.01418	0.7244	1029.509	751.7116
1.08508	0.17581	1.08508	2087.592	2269.809
1.17355	0.17264	1.17355	1898.616	2254.989
-1.10734	0.56124	0.90306	382.8628	343.9894
-1.05308	0.76037	0.9496	295.7234	281.1101
1.09598	0.16064	1.09598	3354.862	3726.738
-1.0254	0.83608	0.97523	503.1017	491.0358
1.29495	0.0015	1.29495	841.4818	1091.518
1.05848	0.77582	1.05848	248.9778	269.4509
-1.19754	0.01487	0.83505	791.2125	663.0304
-1.2031	0.38448	0.83119	234.9858	198.6761
1.03305	0.67053	1.03305	5013.372	5242.768
-1.19347	0.21142	0.83789	516.0319	430.806
-1.02213	0.92112	0.97835	256.7232	249.6155
-1.16605	0.02896	0.8576	2578.697	2219.577
1.04979	0.5571	1.04979	952.5701	995.05
-1.31936	0.00004	0.75794	12303.82	9206.687
1.11499	0.22633	1.11499	3718.571	4057.195
-1.00593	0.983	0.9941	176.1483	171.042
-1.01958	0.87466	0.9808	331.1767	323.2144
1.17447	0.0752	1.17447	441.4081	519.4856
1.0455	0.57085	1.0455	2789.157	2907.076
1.10449	0.25581	1.10449	13539.77	15234.33
1.01093	0.81754	1.01093	1813.95	1833.808
-1.06854	0.13619	0.93586	2780.554	2601.732
1.04912	0.7775	1.04912	339.7222	365.3584
1.03256	0.48169	1.03256	2358.707	2437.28
1.0094	0.83954	1.0094	2537.701	2561.658

1.19069	0.04384	1.19069	1392.672	1666.249
-1.01055	0.88376	0.98956	1028.198	1021.17
1.00838	0.89112	1.00838	2131.264	2150.586
-1.13384	0.26082	0.88195	469.63	414.1878
1.52388	1.30E-08	1.52388	748.2888	1138.841
1.03783	0.75917	1.03783	387.866	405.1986
1.0723	0.34437	1.0723	2904.499	3082.366
1.23124	0.10715	1.23124	312.4998	382.2217
1.03565	0.79301	1.03565	583.2896	615.2841
-1.00628	0.94508	0.99376	426.3742	423.1965
1.03571	0.63013	1.03571	829.2115	857.1771
-1.05313	0.63407	0.94955	396.1968	377.8743
-1.58083	0.0027	0.63258	1001.352	643.3148
-1.56461	0.00049	0.63914	7232.823	4484.089
1.06176	0.39427	1.06176	6913.793	7237.295
1.10625	0.07563	1.10625	8771.066	9643.011
1.01301	0.89802	1.01301	591.0078	600.5692
1.18106	0.18279	1.18106	359.3086	421.1093
1.21042	0.06043	1.21042	669.3174	804.1277
-1.01901	0.83819	0.98135	1804.842	1759.526
-1.13341	0.71866	0.88229	173.5407	150.896
1.96689	0	1.96689	4226.931	8321.4
1.58278	0.00771	1.58278	1904.934	3118.855
-1.1274	0.1526	0.887	7892	6852.66
-1.07328	0.41126	0.93173	7206.183	6842.664
-1.1599	0.09196	0.86214	3390.44	2884.574
-1.03278	0.71037	0.96826	28549.98	27128.05
1.00115	0.98564	1.00115	1686.716	1689.363
-1.01409	0.89281	0.98611	475.3749	467.1453
1.30347	3.67E-10	1.30347	9087.533	11851.06
1.01303	0.82462	1.01303	4927.535	4967.02
1.37074	7.79E-06	1.37074	5381.684	7264.968
-1.11782	0.11659	0.8946	1170.382	1047.039
1.3193	0.07417	1.3193	338.3386	437.7728
1.61142	1.65E-17	1.61142	2199.072	3549.741
-1.05546	0.51587	0.94745	3481.052	3255.344
-1.29208	0.00627	0.77395	1507.368	1177.614
1.15074	0.05633	1.15074	4391.038	5097.117
-1.06941	0.80033	0.9351	236.9495	226.033
-1.30065	0.00234	0.76885	1379.23	1058.26
-1.01413	0.96419	0.98607	191.631	195.3609
1.16662	0.14337	1.16662	779.9428	901.9794
-1.05981	0.89884	0.94356	123.8694	113.4282
1.02983	0.61007	1.02983	3775.959	3895.114
2.29554	8.28E-34	2.29554	8934.467	20390.06
1.26741	0.84892	1.26741	31.71725	40.00247
1.01049	0.88102	1.01049	3884.02	3881.477
1.12603	0.06916	1.12603	1468.903	1646.885
1.06746	0.28469	1.06746	2389.431	2563.309
-1.0298	0.79309	0.97106	678.1817	666.2004
-1.05548	0.69874	0.94744	600.5205	566.2622
1.25833	0.52451	1.25833	136.7239	162.6781

-1.0533	0.38273	0.94939	3146.43	3001.119
-1.13896	0.04007	0.87799	1634.773	1443.094
1.06873	0.5409	1.06873	352.2387	377.2008
1.03833	0.73024	1.03833	457.674	478.2712
-1.50433	8.32E-07	0.66475	1382.007	918.902
-1.86892	1.30E-08	0.53507	14999.08	8190.249
1.13821	0.11909	1.13821	572.1251	650.2565
-1.05473	0.41852	0.94811	2149.307	2045.035
-1.06317	0.64289	0.94058	489.5248	464.7637
-1.23937	0.00044	0.80686	1886.426	1519.058
1.05882	0.49055	1.05882	1097.909	1162.585
1.04049	0.66186	1.04049	941.3185	972.687
-1.07828	0.24222	0.9274	751.6011	697.8832
1.02701	0.61078	1.02701	2717.178	2788.482
-1.02121	0.77059	0.97923	1025.132	1003.245
1.06774	0.51964	1.06774	722.6917	776.1741
-1.03719	0.64804	0.96414	918.2051	883.6309
1.3999	0.23205	1.3999	370.1627	525.0051
1.36832	0.01168	1.36832	1237.623	1688.168
1.188	0.56689	1.188	139.6843	169.9026
1.19791	0.00119	1.19791	2228.83	2663.115
1.00913	0.91925	1.00913	542.7705	547.0184
1.22903	0.59026	1.22903	116.9144	139.3489
1.00399	0.96882	1.00399	1166.12	1160.273
-1.38697	0.00327	0.72099	967.8441	705.1627
-1.11154	0.06418	0.89966	5446.937	4868.76
1.08787	0.24396	1.08787	1197.537	1303.546
1.08653	0.39271	1.08653	5621.999	5999.629
-1.08532	0.35724	0.92139	1740.412	1592.708
-1.05459	0.50467	0.94823	1968.219	1878.689
1.05173	0.61855	1.05173	701.8583	731.4769
1.16587	0.00884	1.16587	4557.796	5267.858
-2.16038	0.00005	0.46288	824.9641	391.9565
-1.92453	0.04602	0.51961	430.0348	228.7101
-1.01773	0.76597	0.98258	2350.22	2315.284
-1.14202	0.55433	0.87564	285.875	252.1402
-1.01849	0.78702	0.98184	4025.153	3996.754
-1.06917	0.73675	0.93531	329.3212	305.5403
1.18599	0.0624	1.18599	728.6974	868.669
-1.00172	0.99032	0.99828	363.7247	366.7585
-1.07859	0.3606	0.92713	1775.574	1656.974
-1.36918	0.00005	0.73036	2616.979	1913.893
-1.04869	0.73186	0.95357	491.3003	468.0402
1.02826	0.56279	1.02826	2548.127	2620.001
-1.13302	0.06661	0.8826	1118.913	983.6499
-1.21106	0.1155	0.82572	2570.718	2118.035
-1.12756	0.02144	0.88687	6775.123	5980.831
-1.03373	0.94553	0.96737	114.4039	108.1206
-1.07429	0.84666	0.93085	175.1489	150.3096
-1.39955	0.00256	0.71451	2985.983	2106.917
-1.01392	0.87436	0.98627	1151.659	1134.458
-1.44084	0.77397	0.69404	41.26751	29.1787

1.00571	0.9533	1.00571	4128.979	4291.586
1.32127	0.00298	1.32127	1408.808	1846.38
-1.16314	0.11666	0.85974	1066.338	921.7958
-1.08957	0.51239	0.91779	1454.961	1334.246
1.35092	0.12122	1.35092	231.7521	318.7236
1.14545	0.25367	1.14545	423.7992	484.8696
-1.08246	0.11692	0.92382	2405.615	2219.565
1.2629	0.08768	1.2629	1849.683	2288.527
1.03156	0.77759	1.03156	1128.592	1150.718
-1.03166	0.75315	0.96931	1511.912	1450.574
-1.06738	0.30051	0.93687	2139.74	2010.406
1.14955	0.04687	1.14955	632.6315	727.8948
1.01385	0.88205	1.01385	2846.276	2869.822
-1.07297	0.5119	0.93199	679.168	638.8557
1.4772	0.00166	1.4772	64465.2	100809.7
1.22663	6.95E-07	1.22663	5708.43	7002.422
1.15734	0.01576	1.15734	1811.961	2088.779
1.00344	0.95081	1.00344	2076.188	2083.209
1.06669	0.30536	1.06669	858.5166	916.3539
-1.16538	0.49417	0.85809	196.7768	170.7806
1.12621	0.24338	1.12621	5816.834	6386.793
-1.04747	0.58176	0.95468	901.7981	866.3184
-1.0199	0.86782	0.98049	1143.043	1118.204
-1.20184	0.12766	0.83206	835.6977	686.027
1.00692	0.89182	1.00692	2065.027	2080.395
-1.00656	0.91671	0.99348	1118.107	1110.777
-1.05345	0.48407	0.94926	1263.807	1209.283
1.31184	0.02566	1.31184	415.6106	539.044
-1.18392	0.01401	0.84465	8767.524	7341.652
1.02727	0.7622	1.02727	636.8684	650.4998
-2.03424	0	0.49158	12509.03	6154.358
-1.04865	0.51754	0.9536	781.8655	746.372
1.07958	0.37994	1.07958	499.5389	537.3731
1.01897	0.77524	1.01897	759.2591	774.4275
-1.35777	0.30339	0.7365	230.8784	181.8943
1.06938	0.57147	1.06938	745.6716	786.7467
1.12745	0.10705	1.12745	2458.023	2787.84
-1.55469	7.64E-10	0.64322	4249.794	2698.082
1.21598	0.17486	1.21598	335.2311	402.0277
1.0765	0.23293	1.0765	1413.647	1520.051
-1.40201	0.83523	0.71326	33.57117	20.89136
-1.00084	0.98777	0.99916	2541.019	2537.819
-1.05147	0.4007	0.95105	809.5052	769.8226
1.22515	0.57472	1.22515	91.161	111.9054
-1.01197	0.82921	0.98817	1953.266	1927.74
1.03546	0.6858	1.03546	1483.921	1546.698
1.01999	0.80961	1.01999	5021.643	5189.911
-1.03317	0.6201	0.9679	859.3837	831.0963
-1.03006	0.76125	0.97081	970.363	941.5963
1.01283	0.85682	1.01283	2057.387	2090.512
1.05348	0.27595	1.05348	4415.789	4651.944
1.02419	0.82432	1.02419	600.1282	620.8381

1.03923	0.67695	1.03923	780.2717	805.2795
-1.597	0.00572	0.62617	511.2389	328.1286
-1.00055	0.99243	0.99945	957.9473	957.1211
1.03235	0.80695	1.03235	6154.629	6075.412
1.16252	0.89905	1.16252	34.43	35.64275
-1.06137	0.85141	0.94218	153.9723	149.0162
-1.12913	0.16314	0.88564	741.2166	660.627
1.18443	0.0786	1.18443	495.2481	588.3735
1.05537	0.27533	1.05537	3023.94	3192.074
1	1	1	22.59291	22.44234
1.07262	0.52282	1.07262	663.7481	704.2223
1.22058	0.06166	1.22058	862.5579	1044.576
-1.07837	0.16645	0.92732	20297.02	18924.25
1.00062	0.9919	1.00062	3961.476	3986.057
-1.04244	0.90061	0.95929	183.4851	187.4196
1.1994	0.15312	1.1994	37709.59	46542.91
1.03966	0.52595	1.03966	916.6789	954.1567
-1.02803	0.9628	0.97274	93.50317	93.68542
-1.12085	0.39666	0.89218	682.2459	619.0546
1.22108	0.02021	1.22108	1537.373	1866.145
1.01602	0.85415	1.01602	5759.47	5734.731
1.26533	0.14704	1.26533	10720.24	13153.58
1.49845	0.00002	1.49845	32631.33	50838.96
1.09184	0.4821	1.09184	493.8059	531.8575
1.0703	0.10822	1.0703	4550.449	4869.974
-1.0294	0.67447	0.97144	1917.49	1862.731
-1.14625	0.04385	0.87241	13266.05	11411.48
-1.10999	0.34473	0.90091	592.7937	529.2755
1.35121	0.2811	1.35121	169.1917	226.6213
1.21525	0.3381	1.21525	303.9401	368.2524
1.28746	0.00041	1.28746	2617.668	3392.869
-1.01695	0.83207	0.98334	799.8737	788.7414
-1.03297	0.47933	0.96809	3771.313	3651.717
-1.19277	0.06071	0.83839	2840.648	2388.331
1.06894	0.40841	1.06894	8753.737	9184.746
1.02364	0.69772	1.02364	751.7362	769.5364
-1.01083	0.89581	0.98929	526.73	521.1287
-1.3368	0.02975	0.74806	5481.997	3973.937
1.02588	0.59967	1.02588	3301.694	3395.947
1.30478	0.00047	1.30478	1909.712	2499.402
-1.41548	0.04167	0.70647	2168.399	1491.932
1.0514	0.31552	1.0514	2543.735	2670.48
-1.04927	0.6678	0.95304	490.4208	468.1378
-1.06257	0.4768	0.94112	718.631	680.3212
-1.06506	0.25928	0.93892	1581.295	1485.252
1.02527	0.75014	1.02527	1580.564	1622.135
-1.02856	0.69088	0.97224	1302.778	1274.077
-1.02729	0.79699	0.97344	763.7201	751.271
1.25314	0.00061	1.25314	1383.012	1735.783
-1.01737	0.71216	0.98293	3564.8	3507.059
-1.03495	0.89106	0.96623	222.1078	216.3817
-1.02154	0.61511	0.97892	10296.48	10066.3

-1.01621	0.7884	0.98405	862.8315	850.0703
-1.01098	0.9366	0.98914	379.6197	380.027
-1.08183	0.53715	0.92436	405.3745	374.7161
1.06015	0.54583	1.06015	876.2775	927.0956
-1.1083	0.16466	0.90228	1204.208	1090.069
-1.04312	0.56436	0.95866	1052.949	1014.065
1.09633	0.41792	1.09633	891.07	971.3646
-1.08228	0.75367	0.92398	230.0154	213.1147
-1.07174	0.43042	0.93306	1415.693	1318.607
-1.07217	0.22226	0.93269	1008.645	941.1456
-1.01901	0.82216	0.98134	543.1311	531.587
1.04889	0.67349	1.04889	1065.797	1121.349
1.09191	0.95382	1.09191	26.79023	28.24352
1.51201	0.00001	1.51201	1157.037	1759.188
-1.115	0.31475	0.89686	5905.363	5262.826
-1.0453	0.53116	0.95666	4098.583	3932.08
1.03064	0.7647	1.03064	495.1022	510.1015
1.02331	0.75274	1.02331	1144.211	1167.644
1.02709	0.69433	1.02709	2250.853	2308.538
1.05399	0.5191	1.05399	577.9524	610.0472
-1.02175	0.80988	0.97871	1405.323	1387.404
1.12462	0.01981	1.12462	3354.466	3783.863
1.09428	0.20863	1.09428	1977.778	2178.813
1.014	0.87322	1.014	1036.307	1042.608
1.40885	0.0288	1.40885	279.7972	388.371
-1.08916	0.71605	0.91814	219.7945	201.5735
-1.06645	0.35583	0.93769	906.5454	848.7982
-1.03022	0.85026	0.97066	999.3571	982.5651
-1.01969	0.8516	0.98069	1479.583	1455.992
-1.02801	0.58644	0.97276	2935.924	2854.396
1.04017	0.68497	1.04017	2983.188	3085.729
1.00981	0.91198	1.00981	4221.231	4180.158
1.10245	0.2371	1.10245	521.8629	576.7731
1.1538	0.26688	1.1538	1160.909	1349.245
-1.01936	0.79901	0.98101	1449.297	1425.937
-1.02017	0.68302	0.98023	3946.221	3868.676
-1.15708	0.20116	0.86425	937.9606	819.9471
1.01088	0.8884	1.01088	1050.765	1062.313
-1.00228	0.96599	0.99772	6107.721	6089.5
1.0817	0.29004	1.0817	3398.129	3715.45
-1.00762	0.9006	0.99244	2199.295	2190.794
-1.11091	0.26558	0.90016	913.4039	819.8608
-1.80681	7.66E-06	0.55346	1465.576	809.5927
1.14813	0.27281	1.14813	1859.741	2186.072
-1.05101	0.5451	0.95147	743.9911	706.8279
-1.22671	0.87117	0.81519	34.96241	28.61438
1.08889	0.34441	1.08889	1405.113	1528.177
1.16847	0.07663	1.16847	572.7028	671.0873
-2.3398	4.10E-09	0.42739	3206.924	1329.698
1.15123	0.15797	1.15123	1729.384	1962.493
1.0442	0.86952	1.0442	166.4446	177.5039
-1.00197	0.97516	0.99803	876.1476	873.7484

1.27935	0.24772	1.27935	175.2294	225.6619
1.05708	0.4962	1.05708	498.025	526.6691
1.00798	0.97435	1.00798	210.9255	213.3359
-1.10089	0.25975	0.90836	954.1639	873.2156
-1.18135	0.49049	0.84649	274.4806	228.7381
1.08698	0.55466	1.08698	336.5347	362.4108
-1.00518	0.94863	0.99484	1447.128	1439.334
1.27719	5.52E-06	1.27719	1449.593	1851.052
-1.03699	0.64479	0.96433	869.7093	839.6372
-1.07844	0.70408	0.92726	254.2192	235.4628
1.00144	0.98111	1.00144	1137.698	1139.114
-1.07138	0.39084	0.93337	812.1188	761.4912
1.11252	0.78051	1.11252	95.48785	104.4166
1.01138	0.86124	1.01138	1131.857	1140.139
1.02921	0.68755	1.02921	751.5719	773.1558
1.06621	0.44341	1.06621	2643.833	2820.856
1.04667	0.83666	1.04667	234.7273	241.5185
1.00618	0.92021	1.00618	20019.18	19961.04
-1.47791	0.00025	0.67663	1867.563	1251.906
1.04344	0.41276	1.04344	2462.295	2574.791
-1.01242	0.93331	0.98774	321.2751	317.5892
1.02164	0.72768	1.02164	7603.762	7697.951
-1.43088	0.01143	0.69887	1343.63	940.2385
1.26406	0.00004	1.26406	2112.427	2681.645
-1.08026	0.55744	0.9257	514.0914	475.8428
-1.00239	0.98084	0.99762	1260.123	1258.843
1.07658	0.68653	1.07658	248.0994	263.192
1.14913	0.00281	1.14913	7565.226	8706.861
1.01013	0.90449	1.01013	894.9916	902.4283
-1.01404	0.87993	0.98615	587.3798	582.5997
1.04385	0.31462	1.04385	3726.107	3889.254
-1.04483	0.67377	0.95709	3094.413	2867.999
1.0441	0.61988	1.0441	860.2749	897.01
-1.04045	0.69555	0.96112	444.9766	428.0914
-1.29683	0.03041	0.77111	5147.603	3839.855
1.01452	0.93759	1.01452	244.5417	245.0225
-1.01824	0.81668	0.98208	525.0049	515.3876
-1.05688	0.43926	0.94618	1286.928	1216.368
1.02535	0.91626	1.02535	178.7889	183.7649
-1.09504	0.19756	0.91321	2538.946	2296.136
1.00691	0.9028	1.00691	1044.401	1051.47
-1.00261	0.99036	0.9974	274.456	272.2754
-1.06295	0.18032	0.94078	3292.098	3096.887
-1.08941	0.24955	0.91793	1158.629	1064.952
-1.05393	0.46293	0.94883	1960.871	1854.295
1	1	1	22.52448	21.36112
-1.05118	0.52734	0.95132	2301.429	2171.605
-1.09792	0.55616	0.91082	399.4117	368.8076
1.0089	0.9869	1.0089	97.46764	100.1112
1.18057	0.00582	1.18057	1041.158	1230.56
-1.18147	0.2032	0.84641	1747.98	1476.432
1.32783	0.03751	1.32783	314.0294	418.1868

-1.03574	0.88169	0.96549	263.7711	258.9655
1.05864	0.2698	1.05864	2118.059	2242.008
1.05531	0.48777	1.05531	34335.29	37143.8
1.03869	0.72523	1.03869	3890.293	4057.65
-1.02768	0.73604	0.97307	591.9866	576.8044
-1.00645	0.95943	0.99359	521.5148	523.5975
1.0109	0.88708	1.0109	2840.953	2878.373
1.04723	0.65781	1.04723	1015.859	1063.191
1.01484	0.78827	1.01484	2125.934	2159.115
-1.00567	0.94633	0.99436	557.2175	554.7689
-1.00488	0.93986	0.99514	1857.451	1850.036
-1.02742	0.97851	0.97332	51.89724	49.9777
1.0224	0.71533	1.0224	1889.658	1931.906
1.08061	0.48144	1.08061	566.1773	618.4675
-1.06062	0.24224	0.94285	4320.797	4065.826
1.04872	0.71242	1.04872	2555.77	2689.375
1.07641	0.61044	1.07641	295.3973	319.8231
-1.0052	0.93588	0.99483	1352.431	1346.725
1.02117	0.83297	1.02117	754.0176	776.758
1.02742	0.64886	1.02742	1939.199	1987.844
-1.02029	0.87909	0.98011	313.1345	308.3982
1.13306	0.03303	1.13306	995.1671	1128.427
1.06109	0.36311	1.06109	866.6537	919.2783
1.01485	0.73236	1.01485	7953.89	8072.824
1.19663	0.14197	1.19663	631.3838	745.9054
-1.2523	0.05751	0.79853	3981.354	3122.064
2.17919	1.44E-08	2.17919	220.9908	477.9558
1.24715	0.04475	1.24715	285.6505	356.2936
1.04594	0.60527	1.04594	6786.613	7068.591
-1.18948	0.54203	0.84071	209.6453	177.7451
-1.00099	0.98407	0.99901	1792.659	1790.025
-1.0323	0.79251	0.96871	960.3005	921.2321
1.06915	0.39114	1.06915	9525.806	10216.12
1.12519	0.04215	1.12519	8216.272	9318.124
-1.07748	0.58653	0.92809	273.8238	253.8566
-1.08524	0.32251	0.92146	2046.898	1884.703
-1.05351	0.66741	0.94921	404.8566	387.2141
1.28682	9.98E-06	1.28682	12129.8	15522.61
-1.06586	0.52869	0.93821	365.0497	342.5137
-1.00924	0.94134	0.99084	6329.854	5976.277
-1.06287	0.38791	0.94085	2096.601	1981.79
-1.15074	0.67805	0.86901	175.3753	151.1183
1.05782	0.8731	1.05782	163.4434	168.197
-1.00806	0.90022	0.99201	2094.603	2084.302
1.05716	0.34985	1.05716	2548.425	2695.733
1.04796	0.47366	1.04796	1976.608	2059.001
-1.0345	0.78257	0.96665	755.8138	739.9519
1.21752	0.01788	1.21752	932.711	1137.34
-1.02382	0.79119	0.97673	529.7936	518.7534
-1.04952	0.3852	0.95282	1940.417	1848.895
1.06767	0.35399	1.06767	2091.253	2219.672
-1.28072	0.00006	0.78081	37002.37	28657.96

1.07849	0.38587	1.07849	1620.009	1760.94
1.15844	0.10639	1.15844	698.1451	802.7676
-1.05251	0.55344	0.95011	548.6062	523.0797
1.00329	0.94324	1.00329	2282.066	2289.715
1.01687	0.98109	1.01687	81.62167	79.34889
1.02016	0.75046	1.02016	920.5901	937.5391
-1.33989	0.02598	0.74633	1484.999	1097.337
1.16802	0.24888	1.16802	1014.965	1181.715
-1.02736	0.70272	0.97337	4837.661	4696.454
1.02985	0.81918	1.02985	526.4238	550.4698
1.02475	0.70936	1.02475	7210.473	7391.735
-1.1084	0.39074	0.9022	697.5058	633.9666
-1.01859	0.707	0.98175	3148.021	3091.632
-1.24852	0.00006	0.80095	3569.338	2847.398
-1.09139	0.55131	0.91626	429.9101	400.9854
1.0125	0.81096	1.0125	2853.215	2896.398
-1.00848	0.96343	0.99159	264.0869	261.5606
1.13618	0.18804	1.13618	954.4437	1078.009
-1.04687	0.62528	0.95523	2082.116	2042.492
-1.01345	0.96345	0.98673	197.1505	191.6577
-1.00957	0.83319	0.99052	7739.616	7659.25
-1.07498	0.50969	0.93025	390.5142	364.3544
1.60315	2.23E-14	1.60315	30404.87	49177.77
1.03148	0.63699	1.03148	2172.427	2235.93
-1.06864	0.34376	0.93577	672.0223	629.7575
-1.0595	0.44755	0.94384	593.6896	560.173
-1.01242	0.86578	0.98773	4020.585	3972.383
-1.03568	0.88242	0.96555	225.3418	218.5478
1.18624	0.36464	1.18624	328.7788	376.1796
-1.15821	0.09889	0.8634	798.3232	688.6986
-1.09476	0.83314	0.91344	131.2007	122.5626
-1.00726	0.89745	0.9928	1437.35	1422.934
1.05673	0.70686	1.05673	263.5366	277.9141
-1.00391	0.95531	0.9961	1573.089	1563.808
-1.07919	0.36251	0.92662	1094.811	1022.092
-1.08935	0.52827	0.91798	355.8056	328.8798
-2.02084	9.08E-28	0.49484	4736.183	2366.163
1.15306	0.001	1.15306	5154.251	5940.235
1.04048	0.50399	1.04048	896.6587	931.7011
1.06068	0.2255	1.06068	2718.861	2887.04
-1.02996	0.83463	0.97092	491.7509	487.0922
1.6749	1.05E-16	1.6749	971.8922	1627.276
1.06034	0.24109	1.06034	8287.445	8810.338
-1.055	0.51996	0.94787	786.9767	749.0503
-1.10467	0.59351	0.90525	350.83	320.4249
-1.22215	0.02164	0.81823	1691.241	1387.193
-1.25891	0.00099	0.79434	864.9805	687.6671
1.19628	0.05191	1.19628	748.6642	891.3006
1.02465	0.79595	1.02465	480.6944	492.7225
-1.12102	0.02153	0.89205	4483.032	4008.749
1.02003	0.68126	1.02003	6574.442	6676.607
-1.10774	0.68273	0.90274	177.8281	163.1561

1.19726	0.00631	1.19726	1685.104	2009.653
-1.02817	0.82429	0.9726	1845.722	1795.154
-1.59255	0.00002	0.62792	1332.259	835.2582
1.33495	0.00071	1.33495	3708.539	5004.334
1.01781	0.88918	1.01781	304.429	308.6232
-1.05954	0.51665	0.9438	1234.965	1166.52
-1.2191	0.0835	0.82028	556.0299	458.6881
-1.09063	0.18941	0.9169	1055.912	969.9912
-1.17042	0.02497	0.8544	1756.972	1504.755
1.01463	0.86673	1.01463	441.6793	448.5178
-1.05284	0.57883	0.94981	649.1991	620.9971
1.08118	0.8892	1.08118	76.16531	81.55093
-1.11694	0.41073	0.89531	633.8109	577.2733
1.02428	0.75217	1.02428	1682.9	1709.782
1.00235	0.96756	1.00235	7304.137	7315.779
1.02126	0.90586	1.02126	237.2029	244.8471
1.37137	0.00001	1.37137	5537.92	7468.908
-1.07748	0.62341	0.92809	470.5646	438.9903
-1.12911	0.27719	0.88565	596.2368	528.1223
-1.57357	0.00249	0.6355	4412.008	2897.709
1.04023	0.63074	1.04023	735.2764	760.5291
-1.06541	0.22137	0.9386	2625.337	2460.304
-1.19453	0.01947	0.83715	1806.846	1508.143
1.00734	0.95454	1.00734	437.5197	436.1083
-1.00102	0.98707	0.99898	704.1008	703.8255
1.00687	0.91245	1.00687	2411.387	2436.932
1.09293	0.74314	1.09293	175.021	190.5814
1.0207	0.7787	1.0207	1291.686	1316.099
1	1	1	22.17103	21.99271
1.24902	0.02239	1.24902	808.4575	999.921
1.30939	0.08892	1.30939	364.7563	466.6281
1.11456	0.14967	1.11456	830.0078	922.611
1.09103	0.75959	1.09103	199.6045	222.4218
-1.04759	0.83501	0.95457	262.1183	248.0212
1.08896	0.46458	1.08896	385.2404	420.0107
1.06415	0.88261	1.06415	120.6079	121.8953
-1.00727	0.86731	0.99278	6721.536	6670.69
-1.02543	0.68913	0.9752	7466.59	7346.456
1.0146	0.79731	1.0146	1253.6	1274.177
-1.70169	2.69E-11	0.58765	6902.491	3964.668
1.06032	0.39363	1.06032	1115.521	1177.625
1.21825	0.04301	1.21825	1813.806	2229.335
-1.02306	0.96193	0.97746	117.1185	109.9277
-1.0388	0.45898	0.96265	2893.344	2786.303
-1.04324	0.51285	0.95855	1601.104	1534.75
1.05538	0.66908	1.05538	327.7101	346.4803
-1.02701	0.89254	0.9737	233.4966	227.2033
-1.05923	0.58975	0.94409	368.2553	348.5822
-1.05782	0.57877	0.94534	510.7573	483.9969
-1.02426	0.73933	0.97632	1083.047	1061.842
-1.04353	0.85773	0.95829	188.8412	183.6079
1.01289	0.77282	1.01289	4355.752	4412.252

-1.07154	0.51283	0.93324	990.5754	934.7795
1.06723	0.2624	1.06723	9705.921	10271.14
1.02368	0.82125	1.02368	646.431	660.3294
1.03874	0.56255	1.03874	1979.941	2059.835
-1.05915	0.46042	0.94415	748.1494	708.5204
1.12711	0.18622	1.12711	1068.503	1203.63
-1.02295	0.66673	0.97757	1522.116	1488.185
1.0316	0.68314	1.0316	764.2084	787.3887
1.05025	0.52202	1.05025	843.5686	883.0633
-1.01272	0.8454	0.98744	812.5772	802.4497
-1.02718	0.9615	0.97354	93.34718	92.56738
1.14797	0.04804	1.14797	3846.367	4459.948
1.62386	0.00012	1.62386	2412.317	4041.854
1.1192	0.48632	1.1192	290.4674	321.3344
1.07931	0.55443	1.07931	329.3395	357.1282
-1.01903	0.78441	0.98133	814.7536	802.1151
-1.02247	0.88263	0.97802	348.0074	340.2835
-1.01774	0.90778	0.98257	352.7665	347.0182
-1.41357	0.01184	0.70743	1131.244	816.4082
1.18942	0.00646	1.18942	1394.726	1659.143
-1.03034	0.83644	0.97056	483.2003	478.4063
1.049	0.62363	1.049	815.4399	849.4618
1.00478	0.96739	1.00478	596.056	605.8828
1.24045	0.04454	1.24045	2912.482	3548.321
1.19358	0.11882	1.19358	1664.689	1994.442
-2.68217	4.21E-16	0.37283	25767.04	9123.026
-1.05378	0.41538	0.94897	2788.856	2662.986
-1.02922	0.74854	0.97161	492.0859	478.7054
-1.25703	0.01077	0.79552	1435.761	1142.429
-1.06496	0.43547	0.939	1056.973	985.4108
1.01218	0.93638	1.01218	347.668	352.0209
-1.05655	0.83286	0.94648	237.1986	230.1244
1.09547	0.06973	1.09547	1732.005	1898.042
1.001	0.98674	1.001	24587.5	24889.56
-1.05793	0.52784	0.94524	2823.093	2699.066
-1.01654	0.89053	0.98373	495.5726	492.9651
1.11219	0.32132	1.11219	1778.826	2011.704
1.01636	0.88857	1.01636	392.5211	401.4411
1.52671	0.00039	1.52671	839.2044	1280.095
-1.05875	0.71168	0.94451	307.3727	293.2512
-1.08446	0.41474	0.92212	2323.433	2126.701
1.08638	0.61444	1.08638	236.9939	257.0354
1.0407	0.53227	1.0407	3184.539	3301.204
1.04387	0.51095	1.04387	5106.753	5380.657
1.06883	0.20989	1.06883	2697.747	2876.106
1.02276	0.74791	1.02276	3145.381	3218.767
-1.00566	0.97067	0.99437	302.4114	300.6559
-1.04518	0.79329	0.95677	432.7823	409.0738
1.62379	0.08796	1.62379	214.2903	346.0951
-1.10231	0.03784	0.90719	2353.381	2132.696
-1.05699	0.62058	0.94608	628.6804	601.6486
-1.00506	0.92343	0.99497	1619.98	1611.676

-1.07774	0.47196	0.92787	769.1971	719.9243
1.01457	0.93541	1.01457	229.2374	234.6833
-1.04235	0.60337	0.95937	1207.236	1158.9
1.39278	0.00341	1.39278	1039.244	1444.828
-1.18656	0.01832	0.84277	1851.204	1553.671
-1.02347	0.78286	0.97707	657.1087	639.0579
-1.10918	0.47477	0.90156	583.0715	523.9503
1.08608	0.63664	1.08608	224.043	241.2809
-1.10262	0.111	0.90693	61255.01	54707.09
1.00959	0.92515	1.00959	770.3804	784.6484
-1.12151	0.50587	0.89166	378.2575	337.4684
1.34992	0.00324	1.34992	89694.62	125162.8
1.0772	0.18406	1.0772	1061.57	1143.789
-1.07097	0.54297	0.93373	483.934	455.4212
-1.0413	0.60851	0.96034	1231.585	1193.472
1.1852	0.15921	1.1852	372.697	439.9853
1.08122	0.20915	1.08122	14480.55	15523.27
1.05752	0.85282	1.05752	145.5141	151.1883
1.51215	0.00006	1.51215	710.1475	1067.332
1.05438	0.30548	1.05438	2268.21	2388.682
-1.85073	1.97E-12	0.54033	13476.03	7384.688
-1.03843	0.83656	0.963	237.7239	228.1863
1.0795	0.258	1.0795	2594.079	2786.439
1.13647	0.57652	1.13647	216.6588	253.7141
1.01212	0.97408	1.01212	135.7054	138.265
1.38029	0.00985	1.38029	403.079	550.8395
1.15274	0.1637	1.15274	1113.677	1281.809
1.10243	0.03093	1.10243	2140.216	2359.26
-1.22136	0.05292	0.81876	7294.027	5779.989
-1.07832	0.27962	0.92737	1239.217	1149.714
-1.06051	0.67201	0.94294	533.0083	504.8509
-1.3564	0.5416	0.73725	85.5482	63.25781
1.01743	0.86692	1.01743	410.8337	417.9649
-1.03378	0.7502	0.96732	739.5755	721.3543
1.21668	0.58766	1.21668	115.0399	137.4103
-1.17429	0.1702	0.85158	403.3138	345.0897
-1.59327	0.00052	0.62764	1049.573	667.9832
1.27793	0.03389	1.27793	771.6188	976.7268
1.0951	0.48834	1.0951	292.9502	321.3464
1.4395	0.00004	1.4395	2238.337	3266.5
1.0595	0.84891	1.0595	196.0783	212.8022
-1.11057	0.61566	0.90044	343.2665	317.2151
1.21508	0.00105	1.21508	1154.132	1402.134
1.16069	0.1375	1.16069	690.9983	807.8732
1.11899	0.39741	1.11899	373.1895	413.8889
1.02888	0.7115	1.02888	729.8445	748.801
-1.68902	1.82E-14	0.59206	3458.125	2027.426
1.25466	0.02039	1.25466	1323.589	1670.016
1.11249	0.055	1.11249	1248.962	1389.418
-1.07014	0.79156	0.93446	217.05	195.9959
1.2168	0.03295	1.2168	2324.854	2818.968
-1.08734	0.12492	0.91967	2511.871	2305.622

-1.02632	0.72339	0.97436	1109.959	1076.744
-1.00959	0.91493	0.9905	481.3295	477.8127
-1.00428	0.96469	0.99573	3968.709	3853.859
1.02424	0.9124	1.02424	245.0887	245.4412
1.15852	0.0654	1.15852	859.8622	996.1422
-1.16038	0.06604	0.86179	805.8817	696.9052
-1.031	0.73818	0.96993	708.2283	690.3406
-1.10004	0.70249	0.90906	255.5942	238.4471
-1.04592	0.97769	0.9561	24.6598	23.09664
-1.02836	0.79486	0.97242	732.0022	716.7351
-1.02714	0.79136	0.97358	520.4099	508.8467
-1.04318	0.52332	0.9586	1383.552	1329.754
-1.06372	0.33607	0.9401	2939.22	2777.192
-1.03954	0.74864	0.96196	370.3881	355.2412
1.07578	0.26092	1.07578	1718.816	1847.007
-1.00285	0.97608	0.99716	1080.835	1065.044
1.00078	0.99319	1.00078	844.9902	840.5237
1.07537	0.21222	1.07537	10310.13	11186.14
1.09394	0.50482	1.09394	453.5198	499.556
1.08748	0.38148	1.08748	682.7978	736.6668
-1.08609	0.45599	0.92074	9438.627	8488.335
-1.16058	0.0918	0.86164	954.4335	828.1427
-1.0751	0.69662	0.93014	235.4923	219.1827
1	1	1	25.67295	22.45435
1.14044	0.0128	1.14044	4542.352	5156.664
1.00229	0.97226	1.00229	1658.416	1658.397
-1.01096	0.89783	0.98916	567.2147	560.7777
1.22669	0.53387	1.22669	91.08195	111.1796
1.07859	0.35543	1.07859	1054.786	1138.148
1.07502	0.92741	1.07502	64.07935	71.17332
1.42691	0.00012	1.42691	2581.966	3740.956
1.10998	0.33324	1.10998	5697.59	6585.457
1.20516	0.01589	1.20516	6334.575	7522.674
1.18555	0.00151	1.18555	1022.688	1212.316
-1.02215	0.79257	0.97833	1571.921	1548.706
1.03703	0.78116	1.03703	471.7967	488.7402
1.17854	0.05292	1.17854	1555.376	1838.531
1.11675	0.3779	1.11675	282.5248	315.9689
-1.36572	0.00017	0.73221	7942.1	5697.298
-1.16976	0.2632	0.85488	1822.729	1541.459
-1.00682	0.9214	0.99323	2034.328	2038.684
1.07897	0.43253	1.07897	599.4213	642.9557
-1.49144	4.21E-07	0.67049	13786.15	9405.975
1.00256	0.97295	1.00256	837.4066	836.1395
-1.03739	0.6035	0.96396	1990.301	1907.362
1.02003	0.90723	1.02003	469.4954	476.5749
1.07221	0.21498	1.07221	5155.359	5510.656
1.3098	0.00198	1.3098	903.4883	1182.428
-1.04401	0.75425	0.95785	420.0877	402.923
-1.05853	0.35688	0.9447	788.8778	745.1212
1	1	1	20.36893	22.12374
-1.33511	0.00001	0.749	6904.314	5109.594

-1.00505	0.91604	0.99498	3069.004	3055.953
-1.08484	0.62627	0.92179	367.1352	342.7654
-1.4737	3.94E-06	0.67856	2157.99	1453.518
1.02772	0.84157	1.02772	395.9706	407.038
1.00366	0.97923	1.00366	246.1842	246.5648
-1.02023	0.89608	0.98017	243.4107	238.5701
1.03107	0.70999	1.03107	3384.894	3490.606
1.12882	0.89308	1.12882	50.27719	57.36036
-1.03227	0.80392	0.96874	309.6335	299.8944
1.03151	0.56923	1.03151	2501.784	2580.377
-1.18628	0.32391	0.84297	504.1861	440.4256
1.00914	0.83495	1.00914	3133.783	3163.12
1.06128	0.43909	1.06128	962.8718	1021.963
-1.19937	0.03013	0.83377	5170.081	4236.42
1.17806	0.44961	1.17806	134.2389	158.2001
1.04241	0.42339	1.04241	3056.792	3194.787
1.00156	0.98302	1.00156	1386.351	1393.795
-1.66678	0.05862	0.59996	355.6434	239.3911
-1.68882	0.00303	0.59213	1270.824	764.275
-1.0221	0.89958	0.97838	289.0082	286.0747
-1.18517	0.4168	0.84376	362.4969	300.0175
-1.00982	0.92835	0.99027	2406.757	2402.503
-1.00854	0.91284	0.99153	3409.376	3355.562
1.03673	0.3971	1.03673	4136.891	4289.858
-1.07018	0.50623	0.93442	437.9141	410.6092
1.20915	0.03783	1.20915	3239.829	3829.203
1.4623	5.08E-11	1.4623	2776.72	4060.735
1.1395	0.27832	1.1395	779.4435	898.8645
-1.06603	0.38958	0.93806	681.6982	638.2211
1.06361	0.63414	1.06361	279.4047	296.5487
1.20428	0.01886	1.20428	727.3183	873.8936
1.83289	3.09E-15	1.83289	1653.148	3014.08
-1.05486	0.47864	0.94799	699.6926	664.9204
-1.06563	0.73328	0.93841	350.2314	329.4473
-1.31519	0.00017	0.76035	7064.301	5296.28
1.21324	0.00168	1.21324	1196.085	1453.242
1.00061	0.9985	1.00061	115.2411	116.5945
-1.01053	0.91988	0.98958	4234.875	4091.108
-1.08049	0.62544	0.92551	265.6838	245.9045
1.16045	0.01253	1.16045	3084.456	3566.425
-1.03305	0.54971	0.968	4066.69	3962.146
-1.77644	7.88E-08	0.56292	6905.097	3779.833
-1.01324	0.90455	0.98694	579.2134	577.5547
-1.1189	0.04427	0.89373	3413.112	3032.788
1.1203	0.17229	1.1203	890.6145	993.8728
1.18129	0.01535	1.18129	1125.27	1330.106
-1.02007	0.73286	0.98033	2849.504	2781.116
-1.05456	0.7901	0.94826	230.07	219.1917
-1.03375	0.89232	0.96735	248.8512	237.8907
1.12627	0.05646	1.12627	1066.288	1201.321
1.77916	9.36E-07	1.77916	503.7089	905.9906
-1.19034	0.10805	0.84009	1188.672	1008.194

1.02402	0.98866	1.02402	24.85633	22.68694
-1.17601	0.20826	0.85033	452.2387	384.4717
1.20491	0.16466	1.20491	372.9567	444.3586
-1.04138	0.65816	0.96026	581.1368	561.1606
-1.37859	0.11414	0.72538	1485.677	1124.865
1.14252	0.70478	1.14252	127.7948	144.3375
1.03792	0.50639	1.03792	441.4805	455.9115
-1.07471	0.16539	0.93048	7394.194	6893.594
1.04147	0.68375	1.04147	5070.886	5144.327
-1.05133	0.48446	0.95117	6458.622	6249.174
1.1254	0.39937	1.1254	441.043	487.4054
-1.21866	0.02939	0.82057	1240.391	1019.064
1.0458	0.86363	1.0458	205.9124	214.9879
-1.01275	0.95085	0.98741	294.5424	293.6585
-1.08336	0.17359	0.92306	2059.61	1896.492
1.03264	0.84937	1.03264	202.1213	208.9887
1.0624	0.36448	1.0624	8210.411	8812.49
1.22377	0.0004	1.22377	1073.741	1314.017
-1.2574	0.08242	0.79529	1425.675	1128.678
1.01713	0.8502	1.01713	1714.682	1722.126
-1.05828	0.82432	0.94493	246.4259	228.6088
1.02777	0.64794	1.02777	1053.375	1082.264
1.04942	0.62115	1.04942	451.6393	475.899
-1.31927	0.17793	0.75799	359.8003	286.9081
1.08839	0.35337	1.08839	899.4885	975.2384
1.0124	0.94311	1.0124	329.5599	333.3752
1.07518	0.43359	1.07518	758.5837	820.2521
-1.78796	0.00001	0.5593	577.5011	326.7701
-1.0141	0.92992	0.9861	564.3717	562.9363
-1.28592	0.00007	0.77765	2952.177	2285.896
1.11099	0.20555	1.11099	699.3534	779.0626
-1.1645	0.45244	0.85874	249.1523	216.6198
1.00866	0.92917	1.00866	586.2904	595.0054
1.02371	0.71721	1.02371	1025.985	1051.797
-1.21727	0.15368	0.82151	635.3809	531.5965
1.13022	0.09587	1.13022	869.6057	979.661
-1.04009	0.71688	0.96146	504.4687	488.8959
1	1	1	26.92392	20.61047
1.19783	0.03192	1.19783	466.4853	559.8433
-1.01228	0.86169	0.98786	1271.833	1251.395
-1.04963	0.79338	0.95272	313.7707	297.8469
-1.01031	0.87905	0.9898	1395.461	1380.51
1.04845	0.31272	1.04845	5200.298	5444.543
1.06614	0.77249	1.06614	241.2418	253.3455
1.01072	0.88457	1.01072	778.1492	788.8264
-1.12916	0.23353	0.88561	5516.396	4760.413
-1.10473	0.73184	0.9052	181.5731	167.3107
-2.72305	0	0.36724	12260.92	4511.623
-1.76743	3.18E-13	0.56579	5676.016	3171.055
1.06882	0.60809	1.06882	845.2108	894.7766
1.05688	0.84893	1.05688	222.3338	246.9995
-1.08797	0.30062	0.91915	655.3344	600.6902

1.08239	0.11645	1.08239	2120.561	2296.209
-1.02264	0.73656	0.97786	920.6443	903.1721
-1.38389	2.32E-07	0.7226	1739.513	1255.355
1.16714	0.135	1.16714	4551.173	5440.29
1.23632	0.00002	1.23632	11232.33	13929.29
-1.12692	0.25218	0.88737	655.2191	586.4591
1.06641	0.51571	1.06641	638.981	684.6146
1.11929	0.12017	1.11929	1152.876	1289.239
1.27876	0.02391	1.27876	2294.798	2983.369
1.07341	0.74528	1.07341	168.825	180.4702
-1.07194	0.78427	0.93289	255.1258	244.7861
-1.00689	0.93451	0.99316	736.5776	730.3078
1.15521	0.08043	1.15521	2946.67	3369.535
-1.03835	0.71165	0.96307	545.757	523.5527
1.03117	0.69972	1.03117	658.2885	681.1697
-1.0778	0.23134	0.92781	1367.417	1269.836
-1.01474	0.93908	0.98548	185.8449	182.4846
1.05559	0.35448	1.05559	4809.041	5075.197
-1.02076	0.81909	0.97967	701.6021	690.1273
-1.00185	0.97414	0.99815	1819.409	1815.257
-1.03239	0.93646	0.96863	140.1304	132.4482
1.01117	0.96654	1.01117	153.999	158.1244
1.08712	0.51429	1.08712	539.25	577.8113
-1.15271	0.01351	0.86752	11080.17	9705.027
1.08336	0.78971	1.08336	130.3501	143.1422
-1.07091	0.86548	0.93379	187.3299	165.4431
1.00567	0.93789	1.00567	1320.515	1324.152
-1.06936	0.45662	0.93514	1035.662	969.9277
1.04682	0.60761	1.04682	643.9522	670.4072
1.04125	0.51189	1.04125	711.2436	740.2988
-1.34487	0.74378	0.74356	69.79454	51.02297
1.15718	0.02163	1.15718	1114.444	1288.987
1.64628	0.01927	1.64628	783.3661	1250.807
1.02766	0.79205	1.02766	609.704	632.2476
1.0708	0.41968	1.0708	808.1757	862.4937
-1.22612	0.06652	0.81558	1021.69	842.3388
1.06012	0.53117	1.06012	439.1851	466.1218
1.24762	0.00027	1.24762	2494.047	3103.813
-1.0489	0.61975	0.95338	1389.604	1328.079
1.02088	0.89858	1.02088	315.9613	322.8286
1.05452	0.33899	1.05452	5984.321	6304.291
1.11565	0.1585	1.11565	1182.527	1327.693
-1.00955	0.98409	0.99055	92.17949	91.28899
-1.05598	0.56058	0.94699	686.7709	650.3658
-1.05816	0.5322	0.94504	1120.572	1064.252
-1.15772	0.78133	0.86377	111.4789	95.52995
1.29523	0.02304	1.29523	304.4697	394.4919
1.04073	0.41389	1.04073	1948.349	2028.188
1	1	1	22.33718	22.85537
-1.11967	0.17993	0.89312	872.2427	779.4158
1.01152	0.91788	1.01152	449.4136	454.6011
-1.01573	0.74197	0.98451	4264.654	4199.829

-1.19848	0.39303	0.83439	295.5039	247.2434
1.03193	0.85582	1.03193	239.4435	246.9914
1.03974	0.69979	1.03974	5408.955	5640.295
-1.05021	0.87027	0.95219	279.2565	230.5339
-1.06442	0.43912	0.93948	2664.702	2518.188
1.09335	0.77115	1.09335	156.6073	167.3153
1.22611	0.03161	1.22611	3503.359	4376.979
-1.00222	0.99274	0.99779	165.3777	165.9834
-1.05425	0.49775	0.94854	923.9116	880.3688
1.10115	0.48683	1.10115	576.7702	632.4123
-1.36396	0.26577	0.73316	215.0084	163.4905
-1.00218	0.98025	0.99782	1192.884	1188.261
1.04082	0.8377	1.04082	387.4527	389.9749
-1.0101	0.87173	0.99	4625.84	4614.944
-1.47982	0.21978	0.67576	420.1931	276.3453
1.07983	0.39701	1.07983	11261.97	11912.36
1.10518	0.21841	1.10518	2455.759	2753.094
-1.02659	0.62578	0.9741	1608.37	1562.887
-1.00881	0.92693	0.99126	3355.178	3271.618
1.07423	0.55399	1.07423	476.1729	506.1476
-1.1256	0.21837	0.88841	939.3612	837.4147
-1.07365	0.80511	0.9314	206.071	188.0103
-1.05456	0.65742	0.94827	642.1823	617.3817
-1.00647	0.9708	0.99357	378.402	379.639
-1.04863	0.48093	0.95363	1413.315	1355.157
-1.04472	0.50687	0.95719	1048.097	1006.501
1.01984	0.70101	1.01984	7273.779	7418.351
1.02421	0.79333	1.02421	533.8592	546.0895
-1.04102	0.63768	0.9606	612.1041	586.5549
1.05951	0.24017	1.05951	3122.963	3302.767
1.27572	0.00984	1.27572	822.9525	1045.791
1.02017	0.76732	1.02017	709.5201	722.5198
-1.1307	0.0958	0.88441	1052.503	926.5355
-1.02348	0.93375	0.97706	206.8754	201.5533
1.18139	0.41093	1.18139	216.5716	251.3937
1.03987	0.64248	1.03987	5416.068	5567.505
-1.22988	0.08996	0.81309	2763.019	2205.92
-1.06411	0.93188	0.93975	76.06482	74.22559
1.58383	5.66E-07	1.58383	1617.161	2537.238
1.76812	1.23E-06	1.76812	1533.878	2774.628
-1.19741	0.79269	0.83514	86.64981	72.5957
-1.1368	0.74355	0.87967	149.6257	132.3646
-1.14599	0.15441	0.87261	2571.36	2221.775
1.02008	0.82563	1.02008	436.2277	444.5037
1.0138	0.87539	1.0138	1214.889	1229.041
-1.0649	0.69699	0.93906	503.8976	480.402
-1.01755	0.92959	0.98276	372.2955	384.2877
1.03057	0.75112	1.03057	1285.467	1321.273
-1.17066	0.34346	0.85422	568.6482	493.9528
1.05571	0.30541	1.05571	1626.19	1716.464
1.07075	0.92202	1.07075	58.65726	60.21349
-1.01073	0.98247	0.98938	96.7757	92.71982

-1.98689	0.00058	0.5033	471.4293	244.8046
1.05837	0.54368	1.05837	589.6408	620.6724
-1.05174	0.42345	0.9508	1225.692	1164.752
-1.00635	0.89123	0.99369	5497.714	5463.067
1.00263	0.96914	1.00263	1132.805	1135.865
-1.09551	0.39446	0.91282	1236.316	1128.485
1.61759	0.00517	1.61759	625.9851	994.2245
-1.24807	0.7743	0.80124	65.43595	52.33059
-1.02011	0.73883	0.98029	1025.193	1004.318
-1.01064	0.97095	0.98948	138.6349	135.2963
-1.0033	0.98926	0.99671	228.0659	229.2579
-1.1123	0.44182	0.89904	609.6641	558.4793
1.01394	0.90173	1.01394	975.9417	1000.478
-1.44292	0.77925	0.69304	42.2383	29.68383
1.05302	0.73892	1.05302	332.6768	344.9398
1.0089	0.90666	1.0089	3759.227	3805.541
-1.00447	0.94421	0.99555	2615.249	2600.475
-1.02424	0.83911	0.97633	477.1626	462.1398
-1.06047	0.71407	0.94297	412.2208	388.9753
1.01918	0.87078	1.01918	784.3301	808.5911
1.4589	8.81E-08	1.4589	2395.229	3513.823
-1.14335	0.18552	0.87462	2826.352	2462.394
1.03843	0.77256	1.03843	427.2111	441.9789
-1.68677	3.52E-28	0.59285	33202.92	19745.91
-1.04566	0.54232	0.95634	1383.141	1324.325
-1.01668	0.74174	0.98359	2045.904	2011.655
1.01875	0.75462	1.01875	1353.121	1378.985
1.07105	0.31976	1.07105	851.8724	909.7699
1.1908	0.00004	1.1908	5213.029	6210.135
1.04876	0.73026	1.04876	343.4302	359.8798
1.01909	0.83841	1.01909	604.0249	611.6598
-1.04384	0.55725	0.958	667.2672	640.6421
-1.27409	0.00992	0.78487	5791.573	4440.449
-1.00612	0.96449	0.99391	437.8467	441.9163
1.00432	0.92146	1.00432	11231.88	11260.28
1.0214	0.7957	1.0214	2463.617	2495.858
-1.02729	0.85634	0.97343	252.8731	246.0926
-1.01613	0.77604	0.98413	2522.337	2490.224
1.05527	0.65104	1.05527	478.903	509.5677
-1.05179	0.74661	0.95076	379.7308	360.3812
-1.22462	0.25118	0.81658	474.8826	389.1119
-1.46923	6.59E-14	0.68063	13228.45	8968.416
-1.01236	0.84105	0.98779	2232.712	2213.813
-1.02579	0.64349	0.97486	1454.399	1418.042
1.53714	0.14904	1.53714	216.793	329.9573
-1.03215	0.50565	0.96885	1948.733	1888.427
1.44992	0.00079	1.44992	711.9415	1025.266
-1.22332	0.68916	0.81745	118.3855	98.88554
-1.11586	0.45447	0.89617	350.5674	314.0009
1.06001	0.6981	1.06001	338.0024	356.0118
1.04877	0.75336	1.04877	458.5945	491.7166
1.17232	0.20982	1.17232	6152.494	7422.916

-1.09771	0.07081	0.91099	1839.999	1676.143
1.03013	0.49095	1.03013	2461.887	2535.545
-1.09451	0.59778	0.91365	381.8828	351.2482
1.04805	0.933	1.04805	98.7075	109.3745
1.33463	0.00011	1.33463	4504.3	5952.525
1.04983	0.47733	1.04983	685.5506	721.2593
1.01023	0.90928	1.01023	1247.315	1266.961
1.18241	0.88557	1.18241	38.71645	41.5892
1.08318	0.19368	1.08318	2172.378	2362.927
-1.06434	0.45077	0.93955	934.6345	882.9436
-1.07958	0.56613	0.92629	291.6369	269.4109
-1.01694	0.95418	0.98334	191.4184	190.5863
1.22378	0.08326	1.22378	496.1943	613.9093
-1.38667	1.13E-14	0.72115	13323.66	9601.391
1.19591	0.00319	1.19591	2523.942	3025
-1.06689	0.39782	0.9373	1957.901	1859.368
1.16203	0.11838	1.16203	447.7697	518.8494
-1.07336	0.36691	0.93165	2221.51	2059.098
1.04229	0.61806	1.04229	1114.305	1157.763
1.0419	0.62097	1.0419	1175.432	1227.715
1.01832	0.8225	1.01832	835.3479	849.6897
-1.07279	0.49967	0.93215	611.6014	573.0536
-1.21144	0.00002	0.82546	6963.241	5742.605
1.03711	0.61854	1.03711	697.181	721.9199
1.09992	0.36935	1.09992	1463.843	1617.532
1.39326	0.00051	1.39326	1071.91	1497.574
1.06695	0.49507	1.06695	1421.551	1512.844
-1.25141	0.59811	0.7991	127.1239	105.0924
1.0258	0.67143	1.0258	1376.962	1413.263
1.00779	0.8833	1.00779	4087.721	4119.334
-1.01939	0.79451	0.98098	2308.992	2272.851
1.3589	0.76877	1.3589	39.42719	51.3143
1.22856	0.00253	1.22856	3778.755	4672.333
-1.08171	0.34464	0.92446	2270.385	2091.591
1.04565	0.78541	1.04565	271.4654	286.704
1.05297	0.51193	1.05297	11873.81	12292.23
1.26718	0.61665	1.26718	78.1424	99.65233
1.04854	0.89784	1.04854	127.5857	133.1833
-1.00178	0.97437	0.99822	1497.225	1495.061
-1.75063	8.34E-21	0.57122	19853.12	11225.52
-1.02605	0.54631	0.97462	3243.451	3160.64
-1.04072	0.55555	0.96087	1223.34	1179.545
-1.0556	0.58968	0.94733	891.3468	851.18
1.01066	0.90668	1.01066	1062.871	1081.617
1.31092	0.43407	1.31092	120.4376	152.6914
1.00567	0.92118	1.00567	2226.177	2240.215
1.01129	0.95529	1.01129	201.7412	204.6755
-1.00627	0.95516	0.99377	677.1461	679.5877
-1.01444	0.78005	0.98577	1167.405	1151.108
-1.01825	0.89511	0.98207	375.4639	373.1465
-1.14029	0.47365	0.87697	352.1567	306.6659
1.32868	0.0025	1.32868	435.3876	579.0847

-1.04976	0.55141	0.9526	875.7108	832.4857
-1.0564	0.59778	0.94661	1998.013	1895.822
1.05985	0.33954	1.05985	1277.553	1353.56
-1.02871	0.92798	0.97209	178.1596	172.0206
-2.56658	8.59E-07	0.38962	1373.126	535.2589
-1.00074	0.99184	0.99926	2825.735	2822.987
-1.02826	0.91565	0.97252	237.7541	225.7099
-1.11403	0.04925	0.89764	6281.009	5596.675
1.00261	0.95639	1.00261	2288.34	2293.445
-1.02392	0.76983	0.97664	639.9453	626.6939
1.01066	0.94441	1.01066	252.6184	255.3292
1.02924	0.70781	1.02924	1198.365	1227.933
1.01373	0.82254	1.01373	878.1478	890.6201
-1.03607	0.47728	0.96518	3447.52	3321.198
-1.23518	0.00139	0.8096	2973.968	2403.897
1.1678	0.00247	1.1678	2412.101	2818.529
1.03981	0.68641	1.03981	1524.437	1575.575
-1.17348	0.05025	0.85217	1327.169	1133.171
-1.74441	0.69326	0.57326	42.36555	22.47594
1.02766	0.77972	1.02766	654.4021	667.5533
-1.9774	0.01601	0.50571	422.8737	219.3274
1.0289	0.58649	1.0289	4629.77	4735.275
1.01594	0.91363	1.01594	408.0406	407.2396
1.48171	3.19E-06	1.48171	634.7241	944.0634
1.09936	0.16961	1.09936	1402.276	1538.969
1.10624	0.65315	1.10624	215.524	239.3685
-1.15122	0.55329	0.86865	284.6289	239.8174
1.21488	0.02238	1.21488	637.0783	775.4774
1.05975	0.39367	1.05975	1604.978	1701.851
1.06787	0.41844	1.06787	730.113	776.4863
-1.03099	0.70402	0.96994	669.1055	651.3738
1.0684	0.26042	1.0684	3532.601	3794.265
1.20689	0.00013	1.20689	2167.136	2616.798
-1.03963	0.70239	0.96188	553.2856	531.7441
1.47222	3.09E-11	1.47222	10401.35	15181.15
-1.00863	0.84384	0.99144	3670.662	3639.564
-1.00005	0.99936	0.99995	1138.891	1141.148
1.22923	0.02019	1.22923	1082.039	1337.722
-1.01881	0.89912	0.98153	268.6121	265.083
1.01677	0.83217	1.01677	1100.452	1114.397
1.00546	0.96433	1.00546	391.7974	394.0566
-1.17123	0.22349	0.8538	4298.334	3554.552
1.05091	0.57974	1.05091	11573.23	12404.98
1.04666	0.39975	1.04666	4064.152	4259.771
1.01786	0.82446	1.01786	839.4498	852.1271
-1.13079	0.02285	0.88434	1924.609	1701.1
-1.44871	1.20E-14	0.69027	13627.89	9377.99
1.18719	0.44319	1.18719	210.611	249.3959
-1.01825	0.76933	0.98208	2345.264	2301.515
-1.03508	0.57413	0.96611	964.3337	931.7797
-1.02978	0.68435	0.97108	4189.535	4077.421

-1.02573	0.67003	0.97491	2128.89	2075.739
1.01782	0.82972	1.01782	1867.755	1910.943
1.15407	0.00458	1.15407	2582.935	2975.462
-1.10034	0.04706	0.90881	6040.7	5475.147
-1.11087	0.18904	0.9002	3952.149	3523.962
1.19658	0.15449	1.19658	352.8923	421.0012
-1.03759	0.53736	0.96377	1684.673	1626.125
-1.08936	0.7768	0.91797	209.4988	187.2598
-1.0601	0.58125	0.94331	871.047	815.9049
-1.09124	0.15331	0.91639	1625.507	1489.791
1.02869	0.62076	1.02869	3103.19	3189.219
-1.18972	0.32097	0.84054	360.7878	302.1693
1.08176	0.29488	1.08176	1493.46	1615.387
-1.09793	0.66177	0.9108	276.3091	253.2766
1.46207	0.00053	1.46207	1463.663	2175.136
-1.04851	0.80838	0.95373	197.6036	188.4215
-1.01032	0.82053	0.98978	2264.451	2242.195
-1.66556	0.00057	0.6004	1525.514	912.2352
1.09177	0.29914	1.09177	563.6321	614.7388
-1.20004	0.40215	0.83331	352.6792	310.886
1.02438	0.92059	1.02438	220.3734	219.7031
-1.39672	1.00E-06	0.71596	6885.565	4851.939
-1.16354	0.7219	0.85945	124.7268	103.995
1.13081	0.14238	1.13081	2337.932	2655.701
1.04038	0.79708	1.04038	327.6161	343.6738
1.19446	0.14985	1.19446	548.4357	646.0267
-1.13078	0.46262	0.88435	397.7054	354.7759
-1.03758	0.71417	0.96378	847.0909	814.5343
-1.02675	0.87995	0.97395	304.0635	296.5266
1.03509	0.65506	1.03509	638.1346	659.2651
1.28497	0.04021	1.28497	2023.989	2541.116
-1.05833	0.923	0.94489	97.71907	87.24359
-1.21712	0.05902	0.82161	1187.944	976.236
-1.49841	7.57E-08	0.66737	2895.9	1918.177
1.04095	0.59224	1.04095	1847.618	1925.987
-1.0316	0.61093	0.96937	3900.974	3769.043
1.01325	0.84408	1.01325	6150.707	6227.658
1.0557	0.52404	1.0557	810.4175	851.2497
1.02785	0.65831	1.02785	3451.147	3544.516
-2.71284	5.87E-17	0.36862	4127.814	1460.043
1.12771	0.53172	1.12771	228.2504	257.0685
1.13899	0.51113	1.13899	267.3469	297.0593
1.00809	0.87286	1.00809	1647.051	1662.633
-1.11051	0.19186	0.90048	1524.61	1367.855
-1.12562	0.23099	0.8884	630.2195	564.2242
-1.07833	0.65556	0.92736	434.4059	407.9728
1.0491	0.73173	1.0491	323.2496	337.7083
1.1408	0.15646	1.1408	866.3215	982.6596
1.0103	0.92524	1.0103	377.7976	383.2504
1.24235	0.00259	1.24235	615.3818	762.566
1.01795	0.777	1.01795	1072.691	1090.361
1.02714	0.8298	1.02714	378.496	385.5128

1.06565	0.46737	1.06565	1932.845	2089.538
1.03173	0.77611	1.03173	756.3223	771.995
1.22019	0.08082	1.22019	516.2752	623.2911
-1.13645	0.02746	0.87993	5468.655	4787.697
-1.064	0.65111	0.93985	1293.962	1216.127
-1.03908	0.85823	0.96239	290.9531	284.2874
-1.0403	0.90531	0.96126	187.9451	174.0919
1.05653	0.56823	1.05653	676.2059	708.5277
-1.02314	0.71205	0.97738	2478.011	2437.235
1.06091	0.2646	1.06091	1596.415	1694.942
1.16989	0.00739	1.16989	997.4406	1167.424
-1.3693	0.00002	0.7303	17334.39	12420.88
1.18847	0.00473	1.18847	2639.296	3149.311
1.00791	0.92418	1.00791	3225.708	3212.115
-1.86619	5.73E-16	0.53585	3782.668	2056.834
-1.01479	0.76119	0.98542	3224.38	3177.689
-1.02593	0.81405	0.97473	987.5743	974.6254
1.00392	0.94413	1.00392	1230.823	1235.833
1.19216	0.02781	1.19216	580.2131	690.6368
-1.02709	0.69931	0.97362	1322.563	1292.48
-1.16616	0.06354	0.85751	951.8828	821.7492
-1.05876	0.68191	0.94451	454.6293	436.86
1.35871	0.00461	1.35871	518.4291	711.1352
1.12413	0.04028	1.12413	1435.683	1615.669
1.0564	0.41782	1.0564	1397.151	1477.278
-1.24248	0.14469	0.80484	523.023	430.7441
1.17106	0.32322	1.17106	304.2888	352.0386
1.17743	0.03258	1.17743	717.9891	842.8333
-1.08946	0.45459	0.91789	613.5492	567.4818
-1.15406	0.06648	0.8665	1710.461	1478.281
1.11068	0.08053	1.11068	1763.163	1963.979
-1.00357	0.9858	0.99644	258.8102	252.8994
1.07824	0.55932	1.07824	1646.906	1775.426
1.01792	0.8224	1.01792	1068.604	1089.675
1.07618	0.35074	1.07618	1201.915	1294.99
-1.05869	0.44524	0.94456	972.8363	917.218
-1.16836	0.86992	0.8559	66.75701	53.41946
-1.01536	0.92883	0.98487	363.8406	363.9738
1.00763	0.95931	1.00763	464.6257	469.2586
1.04609	0.80015	1.04609	274.9344	287.4395
1	1	1	26.22268	18.89666
-1.00137	0.98073	0.99863	2451.52	2447.767
1.09023	0.27595	1.09023	1548.203	1698.097
-1.01618	0.70726	0.98408	2777.094	2732.809
-1.07437	0.15272	0.93078	10213.97	9455.3
1.04908	0.35696	1.04908	1875.708	1968.214
-1.02541	0.63222	0.97522	3922.933	3826.761
-1.10987	0.21023	0.901	1295.161	1169.935
1.01306	0.91575	1.01306	638.2388	656.0222
1.05372	0.54012	1.05372	2288.792	2367.875
1.06951	0.17683	1.06951	1278.552	1367.475
1.31229	0.09972	1.31229	433.1492	558.9988

-1.46922	0.06548	0.68063	430.5565	301.4691
1.0366	0.7655	1.0366	808.8739	847.4183
1	1	1	30.10527	19.34121
-1.41638	2.95E-13	0.70603	5673.741	4015.589
1.00715	0.97058	1.00715	358.7798	362.8723
1.04806	0.61202	1.04806	851.4546	895.5879
-1.33025	0.00067	0.75174	1112.475	838.8914
-1.06248	0.27652	0.9412	1145.51	1076.496
1.14995	0.02663	1.14995	2562.906	2957.513
1.06676	0.48132	1.06676	1827.56	1951.266
1	1	1	23.38226	21.47282
1.0881	0.63248	1.0881	322.0432	349.7904
1.03073	0.75616	1.03073	674.777	689.8323
1.46905	2.90E-07	1.46905	1948.226	2894.312
-1.01237	0.87909	0.98778	486.5181	481.0823
1.1231	0.12116	1.1231	1703.423	1902.339
-1.04868	0.83299	0.95358	268.1338	256.7373
-1.20934	0.07391	0.8269	820.7018	684.3967
1.03909	0.8655	1.03909	192.9728	202.9196
1.06274	0.53744	1.06274	647.7462	693.0152
1.11009	0.82694	1.11009	94.59431	105.4603
1.03202	0.70384	1.03202	9962.746	10106.23
-1.18441	0.32754	0.8443	591.3665	496.9896
1.16125	0.61807	1.16125	121.1002	142.4211
-1.16412	0.28431	0.85902	3502.609	2924.084
1.02424	0.72036	1.02424	6042.594	6183.785
-1.04222	0.83454	0.95949	332.9319	324.0789
-1.06648	0.50749	0.93766	544.1609	512.8174
-1.18585	0.02492	0.84327	10117.54	8439.62
1.20563	0.00002	1.20563	7119.496	8592.649
1.14165	0.01656	1.14165	1292.752	1476.084
-1.07044	0.40837	0.93419	674.1733	631.2805
1.02586	0.83178	1.02586	572.6916	595.5771
-1.17139	0.08583	0.85369	2351.979	2007.427
1.13415	0.0063	1.13415	2937.285	3329.167
1.43796	0.00439	1.43796	1007.002	1453.884
1.12284	0.34095	1.12284	619.499	685.8619
1.0535	0.65685	1.0535	1613.704	1676.228
-1.1533	0.09079	0.86708	1481.744	1286.071
-1.0084	0.96956	0.99167	294.0114	286.7658
-1.05381	0.8443	0.94894	144.0561	135.9413
-1.00277	0.95379	0.99723	2681.943	2677.115
1.1271	0.05795	1.1271	1073.001	1209.661
-1.01101	0.84253	0.98911	2538.918	2511.705
-1.02961	0.67401	0.97125	962.9548	938.8043
1.05976	0.43399	1.05976	981.9057	1036.86
-1.15714	0.28873	0.8642	693.9785	604.0272
1.04424	0.60718	1.04424	697.7047	726.4893
1.0059	0.922	1.0059	837.2067	843.1784
1.05589	0.60057	1.05589	757.5612	793.935
1.14	0.0753	1.14	3195.311	3612.262
1.14299	0.23771	1.14299	2304.107	2724.586

-1.0793	0.83069	0.92653	130.2045	120.3686
1.38315	0.82544	1.38315	29.4604	36.53476
-1.19984	0.77155	0.83344	91.42195	75.51762
-1.2476	0.11975	0.80154	524.9857	422.991
1.15794	0.45525	1.15794	233.8806	275.4089
1.02663	0.88053	1.02663	254.229	263.7245
-1.08159	0.39379	0.92457	1297.234	1204.299
-1.2733	0.10929	0.78536	465.3384	367.0881
1.10211	0.17747	1.10211	1145.241	1263.124
-1.00732	0.95318	0.99273	620.3304	608.975
-2.81499	2.17E-10	0.35524	1315.948	469.0273
-1.83538	5.95E-08	0.54484	611.3962	335.6501
1.38683	0.01474	1.38683	301.0555	416.0258
1.18985	0.28865	1.18985	332.541	387.7737
1.01822	0.83219	1.01822	2039.599	2072.606
-1.30306	1.66E-08	0.76742	7364.668	5661.333
-1.13243	0.46959	0.88305	274.1586	244.4976
1.00487	0.91845	1.00487	3326.783	3348.422
1.02314	0.83381	1.02314	1389.313	1416.671
1.13356	0.24773	1.13356	1157.232	1286.22
-1.02349	0.79704	0.97705	818.1715	803.9735
-1.10012	0.33724	0.90899	1392.082	1268.585
1.40652	0.21353	1.40652	208.1188	275.1775
-1.00209	0.9828	0.99792	5172.522	5095.928
1.28079	0.00022	1.28079	1663.467	2134.524
-1.24072	3.81E-07	0.80599	4995.18	4026.853
1.05153	0.53018	1.05153	847.5711	889.5435
1.05131	0.31472	1.05131	2757.084	2896.836
1.19456	0.08801	1.19456	443.8667	528.5009
1.05558	0.32022	1.05558	6164.29	6486.876
1.08572	0.5265	1.08572	977.082	1058.686
-1.01254	0.906	0.98762	1095.548	1065.089
-2.5296	0	0.39532	12189.75	4789.099
-1.87696	0.00229	0.53278	867.598	471.4017
-1.38809	0.27184	0.72042	254.6643	179.4563
1.12445	0.75437	1.12445	118.3689	130.7287
-1.12562	0.63986	0.8884	274.9005	236.3075
1.19804	0.00972	1.19804	3213.952	3873.088
1.71618	2.38E-20	1.71618	801.5028	1375.46
1.20432	0.00323	1.20432	1011.795	1217.755
-1.05062	0.89451	0.95182	153.2275	147.615
1.27172	0.00217	1.27172	638.5604	809.3875
-1.02936	0.93449	0.97148	118.4741	113.3068
1.17404	0.1266	1.17404	1875.532	2218.177
1.22778	0.01201	1.22778	933.3846	1143.087
-1.00202	0.97471	0.99798	4744.64	4724.405
-1.40763	5.52E-07	0.71042	2978.327	2105.94
1.07867	0.80771	1.07867	156.3642	169.5316
-1.1172	0.61706	0.8951	286.4079	257.8675
-1.07292	0.28397	0.93203	3109.109	2904.541
-1.12071	0.19995	0.89229	1251.374	1128.171
1.11283	0.18977	1.11283	2231.52	2451.445

-1.14861	0.23945	0.87061	937.8575	808.3362
1.02384	0.8396	1.02384	562.5461	572.7968
1.01528	0.91513	1.01528	723.6641	748.7333
-1.04937	0.5182	0.95295	947.1456	903.615
-1.45684	0.007	0.68642	1118.262	773.115
-1.09355	0.66641	0.91445	348.7294	320.6559
1.0209	0.81382	1.0209	743.9158	754.3304
1.00167	0.97651	1.00167	2847.351	2861.219
1.22024	0.17671	1.22024	276.6749	334.8377
-1.00807	0.90293	0.99199	5031.761	4950.527
-1.01948	0.84327	0.98089	641.0772	629.1179
-1.13529	0.45131	0.88084	513.6263	449.389
1.52739	0.00004	1.52739	2761.946	4259.3
-1.07389	0.69985	0.93119	291.5099	272.2393
1.00206	0.99051	1.00206	317.3957	317.1726
-1.11135	0.5558	0.89981	383.7052	348.6478
-1.05579	0.44204	0.94716	3439.656	3244.669
-1.08064	0.32761	0.92538	890.6731	827.4038
-1.02138	0.88445	0.97907	332.7206	325.6796
1.02386	0.81085	1.02386	504.7469	513.7898
-1.09327	0.33035	0.91468	1938.077	1754.187
-1.02405	0.66071	0.97651	2246.099	2197.309
1.12558	0.48173	1.12558	365.6186	400.0648
2.01002	0.1426	2.01002	82.66011	155.1489
1.05064	0.66106	1.05064	366.1314	382.9854
-1.01661	0.95912	0.98366	167.0458	165.7259
-1.11512	0.1653	0.89677	11136.03	9810.924
-1.06236	0.25427	0.9413	2546.343	2393.992
1.06217	0.72097	1.06217	279.8216	293.5465
1.01118	0.88549	1.01118	1143.341	1152.94
1.39861	1.31E-06	1.39861	845.9114	1184.59
1.04025	0.61649	1.04025	751.8969	780.8353
-1.08959	0.28027	0.91778	667.3192	614.903
-1.2698	0.05212	0.78753	1106.448	876.6456
1.10085	0.10668	1.10085	1756.233	1935.991
1.06172	0.75336	1.06172	219.1205	232.7128
-1.01931	0.79612	0.98106	2874.261	2817.373
-1.01638	0.77306	0.98388	4104.831	4058.842
-1.03819	0.59264	0.96321	21172.63	20072.31
1	1	1	23.48317	24.10394
-1.01725	0.72986	0.98304	1712.875	1683.926
1.1264	0.20523	1.1264	5965.761	6560.427
-1.06888	0.5022	0.93556	559.1235	523.0691
1.14826	0.0581	1.14826	915.2977	1051.881
1.21006	0.04877	1.21006	739.9791	890.0333
1.21577	0.02583	1.21577	3705.122	4585.675
1.06301	0.5072	1.06301	1228.477	1304.984
1.22372	0.01406	1.22372	965.7556	1184.727
1.21793	0.00051	1.21793	1200.487	1462.22
1.0473	0.59676	1.0473	1531.365	1598.038
1.03098	0.60799	1.03098	1617.777	1669.246
1.06063	0.5098	1.06063	866.4526	914.2407

1.02566	0.76724	1.02566	1215.859	1241.877
-1.93852	0.00014	0.51586	532.5683	282.4715
1.22469	0.01994	1.22469	1099.581	1340.095
1.16878	0.00427	1.16878	3007.156	3504.793
1.0366	0.90079	1.0366	216.5048	226.5949
1.1156	0.21987	1.1156	771.5187	863.8342
1.07771	0.38154	1.07771	10564.36	11276.48
-1.18798	0.02196	0.84176	28216.1	24345.38
-1.24959	0.00516	0.80026	2277.761	1806.968
1.04291	0.71408	1.04291	391.1949	405.9517
-1.09583	0.40454	0.91255	2892.575	2600.848
1.7131	2.45E-34	1.7131	152271.8	260978.2
1.35123	0.00048	1.35123	358.2371	483.946
-1.06836	0.18067	0.93601	3449.99	3233.104
-1.32314	0.00305	0.75578	3481.204	2596.021
-1.08505	0.71885	0.92162	228.5211	210.1659
1.11263	0.35893	1.11263	1126.02	1229.816
1.6204	5.82E-23	1.6204	2334.052	3785.456
1.06634	0.66937	1.06634	313.3043	330.4402
-1.10238	0.85255	0.90713	86.05699	76.92039
1.05571	0.46869	1.05571	920.9677	967.3409
1.31116	0.14261	1.31116	319.518	422.2409
1.0584	0.4197	1.0584	1273.873	1345.105
-1.06718	0.6607	0.93705	333.5895	312.6602
-1.00579	0.90218	0.99424	2541.082	2525.458
1.01129	0.82962	1.01129	2716.811	2748.582
1.01838	0.85609	1.01838	911.7449	934.5442
-1.1315	0.46752	0.88378	378.5292	335.3295
1.29978	0.01045	1.29978	1566.051	2051.892
-1.05054	0.57933	0.95189	863.8556	827.6011
1.13977	0.0189	1.13977	1075.167	1227.155
-1.28801	0.01518	0.77639	4129.897	3142.636
-1.1741	0.0104	0.85172	3551.007	3036.973
-1.08475	0.1801	0.92187	2105.434	1937.814
-1.00015	0.99876	0.99985	604.1294	607.9794
-1.05346	0.80946	0.94925	231.3623	220.1397
1.02497	0.84944	1.02497	364.0452	369.757
-1.57379	0.00003	0.63541	4210.734	2621.543
-1.06731	0.27961	0.93694	8559.519	7940.917
1.00882	0.93625	1.00882	519.5255	519.2279
-1.01628	0.8485	0.98398	583.2473	574.9407
-1.0739	0.68435	0.93118	370.3443	347.5331
-1.07522	0.16005	0.93004	4906.375	4574.195
1.12321	0.10737	1.12321	1540.231	1723.679
-1.21608	0.00842	0.82231	2613.562	2139.296
1.13717	0.50638	1.13717	205.0369	233.2683
1.08737	0.09107	1.08737	2956.144	3210.92
-1.00498	0.95127	0.99505	2958.843	2894.65
-1.17703	0.04479	0.84959	1066.482	909.9283
-1.02028	0.86876	0.98013	780.0748	753.1992
-1.05407	0.83408	0.9487	224.6502	211.963
1.01447	0.80888	1.01447	1007.751	1021.617

1.09744	0.55683	1.09744	228.9561	250.2205
-1.05812	0.56772	0.94508	550.0593	519.8947
1.33278	0.04434	1.33278	294.7059	388.7042
1.2515	0.51053	1.2515	114.6474	140.563
-1.78976	2.24E-06	0.55873	793.9838	449.1896
1.22358	0.00019	1.22358	6052.191	7447.162
-1.02138	0.77143	0.97906	747.6683	732.7388
1.14123	0.50138	1.14123	288.5257	322.1857
1.16077	0.06459	1.16077	1747.193	2039.818
1.30304	0.13753	1.30304	222.8485	286.6952
1.1552	0.24255	1.1552	1740.237	1976.584
-1.03529	0.43547	0.96591	6034.079	5830.296
1.00623	0.8963	1.00623	1864.254	1876.088
1.21668	0.00092	1.21668	1264.993	1538.597
1.02926	0.83065	1.02926	1494.496	1516.901
1.32271	0.12731	1.32271	5127.874	7194.307
1.06845	0.50662	1.06845	893.4824	952.2925
-1.17779	0.86091	0.84905	43.8605	37.09805
-1.04907	0.80857	0.95323	249.8442	234.1056
1.74559	1.28E-08	1.74559	1028.155	1794.717
1.11623	0.12538	1.11623	1707.948	1918.686
1.09781	0.371	1.09781	1112.936	1210.28
-1.67533	0.00058	0.5969	481.9554	292.2405
1.17169	0.35061	1.17169	317.9042	366.8533
1.04199	0.48796	1.04199	3364.142	3481.083
1.04311	0.723	1.04311	360.1267	374.6949
-1.25137	0.00002	0.79912	4606.371	3699.978
-1.32492	1.39E-09	0.75476	3386.826	2558.093
1.00393	0.95493	1.00393	1824.089	1835.371
-1.02706	0.79257	0.97366	899.5461	870.5269
-1.08562	0.77992	0.92113	200.8505	185.8383
-1.10787	0.22777	0.90264	803.7633	726.9285
-1.23722	0.38718	0.80826	231.1009	185.8704
1.04811	0.49786	1.04811	828.2163	870.1058
1.14365	0.43507	1.14365	381.49	447.3478
1.02945	0.56001	1.02945	3784.791	3885.7
1.0062	0.91684	1.0062	1626.24	1631.749
1.00515	0.94125	1.00515	2217.293	2238.177
-1.02793	0.71941	0.97283	1133.983	1102.281
-1.28292	0.00001	0.77947	5719.506	4428.922
-1.02797	0.71743	0.97279	6152.584	5928.655
-1.04138	0.69732	0.96026	568.9083	550.996
1.13227	0.35351	1.13227	425.0958	479.4984
-1.02827	0.83541	0.9725	314.5465	303.9402
1.17243	0.09269	1.17243	1033.956	1212.096
-1.15403	0.03262	0.86653	23674.34	20730.46
-1.1109	0.10391	0.90017	996.7133	896.532
-1.11091	0.09163	0.90016	1250.719	1125.928
-1.08706	0.36195	0.91991	775.6847	713.8929
1.19023	0.03712	1.19023	647.8054	772.195
-1.13071	0.18475	0.8844	1142.32	1012.946
1.02809	0.79315	1.02809	649.4491	661.5668

1.07089	0.55308	1.07089	2657.83	2915.235
-1.14225	0.28777	0.87546	377.6758	330.8403
-1.18328	0.09783	0.84511	11240.82	9179.721
-1.00595	0.93896	0.99408	1827.125	1786.996
1.01598	0.92139	1.01598	311.5581	316.8479
-1.03625	0.57347	0.96501	805.4628	776.3593
-1.00853	0.9175	0.99154	3101.75	3149.965
-1.2911	0.00428	0.77453	6252.817	4708.875
-1.13436	0.32027	0.88156	486.1719	429.4573
-1.03149	0.65144	0.96948	1891.593	1845.28
-1.09738	0.12698	0.91126	4035.577	3666.638
-1.11272	0.28874	0.8987	1535.651	1373.368
1.00055	0.99464	1.00055	1901.724	1915.255
1.91512	3.65E-11	1.91512	27019.93	53060.88
-1.19786	0.86875	0.83483	46.06768	38.30236
-1.1046	0.16247	0.90531	810.2079	734.733
1.00623	0.9862	1.00623	125.044	125.4978
-1.23002	0.07772	0.81299	4494.505	3501.335
1.29508	0.00493	1.29508	5694.191	7210.294
1.1383	0.35491	1.1383	506.73	566.5906
1.44452	1.70E-09	1.44452	9313.065	13508.64
1.06509	0.53914	1.06509	619.864	654.2974
1.00873	0.95375	1.00873	373.1738	375.2404
1.01039	0.85952	1.01039	1667.332	1687.181
1.04167	0.61974	1.04167	864.8498	895.9977
-1.04198	0.67104	0.95971	1579.092	1524.545
1.06156	0.18538	1.06156	2688.127	2854.188
-1.09562	0.31075	0.91272	587.1345	537.5916
1.01147	0.88011	1.01147	602.9511	609.2048
-1.11997	0.36933	0.89288	1478.866	1308.084
-1.05559	0.43603	0.94734	4032.215	3784.738
-1.22142	0.40112	0.81872	195.5166	161.9866
1.08035	0.63893	1.08035	325.0109	358.2739
-1.04424	0.78103	0.95763	369.1146	353.0721
1.25762	0.006	1.25762	993.7752	1248.392
1.29046	0.00033	1.29046	857.2206	1107.658
-1.0663	0.18281	0.93782	4906.215	4605.235
-1.00725	0.86757	0.9928	2190.661	2174.88
1.03533	0.59374	1.03533	1879.084	1942.361
1.0189	0.65805	1.0189	3368.323	3432.128
1.02302	0.83098	1.02302	409.1016	419.5798
1.06788	0.44133	1.06788	1799.154	1940.773
-1.10991	0.35877	0.90098	1002.738	912.168
-1.16349	0.21889	0.85948	3900.989	3272.161
1.04475	0.78469	1.04475	278.8723	294.6379
-1.85993	6.34E-34	0.53766	7362.399	3971.519
1.02017	0.73525	1.02017	3162.094	3248.992
1.53544	9.17E-09	1.53544	66228.2	103215.7
1.02529	0.77662	1.02529	1233.341	1264.474
1.04049	0.62563	1.04049	989.1206	1022.987
-1.2731	0.00009	0.78548	5187.282	4056.788
1.01646	0.90107	1.01646	298.9189	305.03

-1.06944	0.57989	0.93507	592.296	553.3157
-1.43863	1.24E-11	0.69511	60709.79	42728.77
1.00046	0.99429	1.00046	928.4667	931.049
1.04196	0.84539	1.04196	232.1964	237.2953
-1.10547	0.59316	0.90459	345.65	309.9775
-1.08017	0.53463	0.92578	817.537	767.2253
-1.00278	0.98149	0.99723	495.8326	492.582
-1.02383	0.75529	0.97673	1052.397	1030.979
1.04491	0.28388	1.04491	11613.45	12136.82
1.00099	0.99001	1.00099	988.549	989.2628
1.19403	0.03841	1.19403	6599.32	8024.833
-1.21398	0.0083	0.82373	1479.661	1219.537
1.0189	0.89586	1.0189	485.2865	484.2374
-1.03689	0.28618	0.96442	1118.714	1079.986
-1.01212	0.89034	0.98803	601.6148	596.7494
-1.00171	0.97393	0.99829	2680.978	2675.864
-1.03121	0.75613	0.96973	455.8894	442.2119
1.12982	0.02067	1.12982	2527.749	2862.381
-1.08547	0.14239	0.92126	4170.711	3830.118
1.03484	0.71621	1.03484	5399.251	5479.546
-1.00491	0.95232	0.99512	1142.803	1144.687
-1.08765	0.59158	0.91942	451.812	415.9837
-1.83539	1.35E-18	0.54484	35728.62	19647.57
1.08535	0.2296	1.08535	4958.165	5384.652
-1.03677	0.87772	0.96454	229.2187	227.4157
1.03823	0.63881	1.03823	2475.88	2603.93
1.06432	0.77351	1.06432	208.4656	218.1533
1.01143	0.86959	1.01143	1451.929	1465.646
1.13998	0.05066	1.13998	904.9708	1032.211
1.35582	9.76E-07	1.35582	3242.864	4367.302
-1.0066	0.90303	0.99344	1369.305	1360.189
-1.05251	0.93394	0.95011	77.82298	73.3533
-1.01251	0.92353	0.98764	461.8732	451.0679
-1.18439	0.30136	0.84432	310.7264	262.4357
1.06938	0.24367	1.06938	1496.042	1598.457
-1.41386	0.0176	0.70729	791.5587	568.9486
-1.00744	0.97397	0.99261	242.2852	239.0344
-1.03255	0.58844	0.96848	1958.033	1891.675
-1.20241	0.15611	0.83166	741.5112	626.443
-1.13157	0.39828	0.88373	621.523	561.4418
1.01557	0.76308	1.01557	1973.821	2005.73
1.15259	0.05838	1.15259	5027.783	5742.647
-1.40176	0.0069	0.71339	1080.4	776.619
-1.06272	0.20639	0.94098	6476.037	6073.008
-1.08889	0.24356	0.91837	4853.31	4437.853
-1.4562	0.00009	0.68672	1163.177	801.4141
-1.14394	0.2178	0.87417	790.7272	693.5847
1.44871	3.72E-15	1.44871	4279.512	6189.184
-1.23541	0.24432	0.80945	347.6609	281.6865
-1.04987	0.43884	0.9525	1317.494	1254.776
1.00884	0.92845	1.00884	703.9264	715.5212
-1.07055	0.42299	0.9341	617.8348	576.7438

1.14758	0.52416	1.14758	232.2517	259.4574
1.17056	0.01959	1.17056	820.13	960.1971
1.02387	0.81532	1.02387	903.6121	930.4617
1.03453	0.84304	1.03453	285.4192	290.684
1.04647	0.70517	1.04647	374.7427	392.2258
1.26718	0.05131	1.26718	554.0309	694.6126
-1.05706	0.41051	0.94602	742.3284	701.963
1.00763	0.9405	1.00763	1123.281	1125.526
-1.02229	0.71814	0.9782	1342.935	1314.27
1.00073	0.99827	1.00073	155.8654	157.55
1.0855	0.38854	1.0855	532.6206	575.8908
1.01348	0.84625	1.01348	1145.386	1159.836
-1.16568	0.35715	0.85787	384.2819	331.6452
-1.02014	0.71027	0.98025	3708.553	3637.813
1.012	0.82665	1.012	1154.631	1168.269
-1.08486	0.67326	0.92178	477.5443	459.4915
-1.03865	0.5758	0.96279	1758.721	1693.71
-1.24524	0.00334	0.80306	928.5085	747.3021
-1.0592	0.37818	0.94411	8579.815	8048.672
1.03313	0.71148	1.03313	644.8906	667.2171
1.28286	0.5685	1.28286	98.97041	132.795
-1.08231	0.39425	0.92395	580.8598	533.7921
1.02804	0.69301	1.02804	1750.571	1795.177
-1.15943	0.13187	0.86249	3544.584	2981.038
-1.6747	9.21E-12	0.59712	3714.551	2190.747
-1.29385	0.81917	0.77289	39.7056	25.88128
-1.01249	0.88728	0.98767	9499.582	9607.631
1.08252	0.27505	1.08252	4369.587	4757.482
1.08791	0.21313	1.08791	4667.221	5149.907
-1.26486	0.03926	0.7906	5128.515	3919.955
1.92479	5.03E-09	1.92479	694.8636	1338.552
-1.62943	1.41E-07	0.61371	941.2997	579.9498
-1.12932	0.04244	0.88549	2359.601	2093.968
-2.33177	1.37E-11	0.42886	16417.4	6737.356
1.08837	0.18494	1.08837	946.0949	1030.633
-1.0718	0.36063	0.93301	4922.194	4590.964
1.17218	0.50408	1.17218	208.163	242.9186
1.44572	1.60E-08	1.44572	1840.584	2672.292
-1.19433	0.31033	0.83729	492.1466	405.6946
1.05062	0.41635	1.05062	1611.166	1687.921
-1.3663	0.00214	0.73191	10507.59	7394.166
-1.05515	0.81151	0.94774	210.0023	199.3725
-1.01143	0.88738	0.9887	961.5645	957.2747
1.48111	7.23E-11	1.48111	1392.781	2058.819
-1.02514	0.84421	0.97548	429.7676	415.0199
1.62307	2.49E-06	1.62307	16012.76	27045.59
-1.04576	0.89827	0.95625	198.4399	199.6787
1.02614	0.75226	1.02614	530.5045	544.9284
-1.13622	0.15095	0.88011	740.4819	654.645
1.19826	0.19742	1.19826	298.5202	356.9395

-1.03704	0.83003	0.96428	259.2891	251.8144
1.09993	0.29382	1.09993	476.8352	522.5486
1.02859	0.85802	1.02859	435.9207	445.0991
-1.24582	0.00814	0.80268	953.4541	763.3437
-1.10882	0.3282	0.90186	545.115	495.2212
-1.12498	0.55647	0.88891	208.1839	186.6953
1.08752	0.47122	1.08752	843.3065	910.027
-1.00289	0.95237	0.99712	1840.914	1837.762
-1.15553	0.04399	0.8654	2020.023	1748.574
-1.23941	0.29334	0.80684	333.5452	278.6444
-1.229	0.07458	0.81367	514.6397	415.3075
1.01386	0.78244	1.01386	2463.667	2491.055
-1.02967	0.72905	0.97118	590.836	576.2852
-1.02034	0.87617	0.98006	377.2409	369.6216
-1.05772	0.64558	0.94543	907.9675	870.9177
1.03599	0.74527	1.03599	600.0071	628.1249
-1.03616	0.67184	0.96511	687.0081	665.6581
-1.65906	2.88E-14	0.60275	2434.024	1462.9
-1.02021	0.77924	0.98019	1818.173	1776.701
-1.07463	0.58402	0.93056	772.433	724.5689
-1.02705	0.87156	0.97366	304.8473	297.2316
1.07646	0.14469	1.07646	1603.923	1726.354
1.39596	0.00597	1.39596	353.8401	496.2336
-1.15067	0.38777	0.86906	478.6954	429.5126
-1.12173	0.4585	0.89148	487.483	431.766
-1.05347	0.29869	0.94924	1926.731	1828.813
1.23685	0.20527	1.23685	271.5007	330.6126
1.04542	0.58952	1.04542	1478.594	1539.167
1.0344	0.5954	1.0344	6796.278	7059.465
1.35476	3.50E-06	1.35476	1045.638	1415.335
-1.0021	0.98125	0.9979	1118.24	1117.422
1.0848	0.51684	1.0848	397.1274	435.3427
-1.08826	0.46246	0.9189	647.0335	594.4183
-1.27518	3.38E-07	0.7842	4942.394	3872.732
1.01995	0.83565	1.01995	3406.484	3542.61
-1.17636	0.17945	0.85008	778.819	670.9308
1.01248	0.79693	1.01248	3174.68	3220.275
-1.38033	0.09219	0.72447	418.8012	317.1037
-1.05541	0.65637	0.9475	453.8537	429.8643
1.01781	0.79377	1.01781	1159.384	1180.311
-1.06562	0.87902	0.93842	162.0691	146.4534
-1.03588	0.85022	0.96536	308.9426	306.1633
-1.05911	0.30838	0.94419	1238.602	1169.507
-1.33744	0.00004	0.7477	4034.323	3023.389
-1.00552	0.96593	0.99451	570.5695	576.9525
-1.05602	0.36131	0.94695	2030.85	1931.719
-1.15139	0.21295	0.86851	1740.612	1487.618
-1.08599	0.1061	0.92082	1952.168	1796.537
-1.20908	0.10048	0.82708	1173.943	988.4006
1.04836	0.93082	1.04836	96.3028	99.52036
1.03513	0.70874	1.03513	1685.958	1768.624
-1.11247	0.14013	0.8989	1484.756	1336.303

-1.01952	0.96364	0.98085	113.5852	112.0353
-1.1603	0.3039	0.86185	686.5756	588.7842
1.14696	0.06855	1.14696	561.0061	642.0233
-1.63544	2.75E-11	0.61146	1384.754	846.2865
1.1347	0.11712	1.1347	14896.67	16609.19
1.0782	0.39995	1.0782	27966.8	29359.73
-2.01311	0.00078	0.49674	1440.805	722.3912
1.051	0.87082	1.051	141.2996	146.5415
-1.24211	0.11655	0.80508	5308.434	4355.659
-1.51384	1.42E-07	0.66057	2220.879	1455.773
-1.10855	0.73149	0.90208	201.7033	177.0555
1.09104	0.88728	1.09104	68.82922	73.20049
-1.02359	0.73151	0.97696	2298.553	2254.423
1.10049	0.11074	1.10049	927.8578	1020.82
-1.08867	0.44853	0.91855	2202.974	2004.938
-1.02755	0.73289	0.97319	670.1648	654.2589
1.09693	0.2487	1.09693	6304.204	7060.985
1.02755	0.87378	1.02755	357.4226	377.5833
-1.19128	0.03018	0.83943	5365.756	4561.018
1.32005	0.01363	1.32005	418.5263	547.8975
-1.07189	0.50437	0.93294	7804.976	7565.193
1.00247	0.98483	1.00247	623.8269	635.9981
-1.00805	0.94422	0.99201	1619.894	1589.957
-1.15001	0.10515	0.86955	3210.131	2757.305
1.08547	0.40015	1.08547	569.4259	622.481
-1.02126	0.80462	0.97918	477.2481	468.2821
-1.06954	0.93488	0.93498	68.84566	60.38083
-1.03165	0.56017	0.96932	5848.176	5647.09
-1.06611	0.34036	0.93799	3400.575	3220.167
-1.00645	0.98814	0.99359	85.61528	83.76035
-1.0846	0.84583	0.922	128.8551	117.3514
1.00327	0.97107	1.00327	797.4478	805.5482
-1.09378	0.65768	0.91426	321.8679	297.5836
-1.11183	0.12721	0.89942	1039.943	935.2474
1.17345	0.01359	1.17345	1481.002	1737.962
1.08442	0.2972	1.08442	781.2252	845.4115
-1.95938	0.00337	0.51037	406.7524	199.0143
1.52649	0.02065	1.52649	461.6675	677.1165
1.02917	0.84032	1.02917	357.902	368.5931
1.01029	0.88742	1.01029	911.9384	920.7857
1.28601	4.89E-07	1.28601	7727.571	9979.178
1.14967	0.32676	1.14967	422.2918	476.949
-1.10702	0.63836	0.90332	284.168	256.7613
1.04867	0.54218	1.04867	1632.055	1704.995
1.07072	0.43429	1.07072	587.7481	627.4666
-1.01862	0.87726	0.98172	677.7261	674.6747
1.34837	0.14234	1.34837	246.0159	328.2634
1.22119	0.07255	1.22119	1095.522	1336.927
1.10493	0.95147	1.10493	25.86647	28.67192
-1.45604	0.00077	0.68679	3725.91	2514.818
-1.13891	0.47142	0.87803	302.0976	264.9477
1.0751	0.64524	1.0751	359.4161	394.3514

-1.02993	0.56514	0.97094	1973.281	1917.424
1.11281	0.11074	1.11281	882.5564	981.9475
1.03294	0.67571	1.03294	5574.476	5775.326
1.08636	0.7718	1.08636	164.6444	173.7712
-1.00722	0.95836	0.99284	435.0944	432.6037
-1.09329	0.68919	0.91467	279.9912	257.7852
-1.03775	0.61849	0.96362	1315.287	1267.036
1.81361	8.57E-19	1.81361	1992.885	3609.759
-1.08652	0.12993	0.92037	2626.536	2414.51
1.07942	0.28174	1.07942	3378.044	3705.021
-1.03513	0.56091	0.96606	1495.904	1445.245
1.49582	1.43E-12	1.49582	2623.249	3902.932
-1.0251	0.70404	0.97551	959.985	939.3524
1.09036	0.43333	1.09036	747.3577	807.1734
1.01365	0.86522	1.01365	743.5953	750.5403
1.06104	0.5804	1.06104	374.2896	396.2808
1.04268	0.49779	1.04268	2215.102	2305.873
-1.10332	0.45281	0.90635	508.0239	460.0402
1.14496	0.03418	1.14496	8892.496	10113.6
-1.08464	0.2351	0.92196	1232.541	1138.46
1.09707	0.24569	1.09707	691.8689	756.5381
-1.34214	0.09205	0.74508	776.5994	581.9228
1.30131	0.03678	1.30131	761.6724	979.5378
1.33897	0.00106	1.33897	1687.651	2254.233
1.07353	0.23225	1.07353	7624.399	8119.826
1.00576	0.93778	1.00576	1772.322	1777.5
-1.0445	0.58554	0.95739	1354.834	1299.984
-1.01374	0.89895	0.98645	18969.64	19209.32
-1.03074	0.86508	0.97017	312.0585	306.4977
-1.13037	0.33709	0.88466	619.9833	548.8333
-1.13517	0.16044	0.88093	856.3307	758.3273
1.06451	0.33368	1.06451	734.3389	780.8385
1.15924	0.18693	1.15924	1182.635	1361.661
1.03227	0.8906	1.03227	226.2127	228.368
-1.11479	0.51766	0.89703	316.3415	288.3937
1.0558	0.888	1.0558	101.0109	106.9228
1.28945	0.04552	1.28945	351.32	449.1382
1.1351	0.00664	1.1351	3814.196	4321.796
-1.07134	0.4752	0.93341	964.0453	903.973
1.70091	1.57E-21	1.70091	1193.666	2029.396
1.00428	0.9363	1.00428	2207.84	2216.49
-1.09386	0.29938	0.91419	635.6794	581.7257
1.08433	0.82528	1.08433	173.4876	177.4812
-1.35721	0.00466	0.7368	11638.99	8370.418
1.2497	0.0094	1.2497	4348.818	5540.425
1.03335	0.61137	1.03335	945.0665	975.4345
1.03624	0.7396	1.03624	815.5148	838.0668
-1.42143	8.95E-11	0.70352	4562.104	3226.124
-1.03627	0.96286	0.965	68.94573	65.0313
1.07574	0.24378	1.07574	2617.234	2835.7
1.02227	0.74213	1.02227	2258.102	2316.457
1.09088	0.3944	1.09088	748.647	808.4533

-1.03481	0.66766	0.96636	795.5541	764.9486
-1.0072	0.8944	0.99286	1129.698	1121.865
1.08669	0.85582	1.08669	98.58502	105.3832
-1.06973	0.3966	0.93481	3034.751	2831.123
-1.14219	0.1655	0.87551	1287.822	1130.508
1.05923	0.50019	1.05923	563.7065	598.2773
1.01262	0.9283	1.01262	556.3629	574.207
1.03867	0.89523	1.03867	153.1594	159.2631
1.02816	0.77367	1.02816	675.0787	698.5481
1.38317	0.27668	1.38317	149.948	209.2955
1.34965	0.06346	1.34965	329.5546	435.3181
1.01808	0.84665	1.01808	745.7494	754.8726
1.02998	0.76037	1.02998	680.9447	705.5596
-1.1223	0.02171	0.89103	9562.51	8488.934
1.08014	0.44	1.08014	672.321	731.9227
1.03128	0.75576	1.03128	496.7965	514.0681
-1.01566	0.87826	0.98458	669.4755	664.538
-1.03503	0.694	0.96615	515.5198	497.8334
1.01945	0.93922	1.01945	156.2217	160.1735
1.10936	0.776	1.10936	110.3407	121.2577
1.07296	0.78683	1.07296	195.1068	203.6705
1.22149	0.09047	1.22149	412.2569	498.9255
1.07058	0.40083	1.07058	175445.2	190701.4
-1.03701	0.81575	0.96431	288.945	278.1841
-1.01544	0.81955	0.9848	1813.566	1780.487
1.0107	0.86746	1.0107	2053.265	2077.72
-1.05264	0.7998	0.95	236.0786	224.1064
-1.03787	0.88951	0.96352	219.8205	210.8846
-1.01023	0.92662	0.98987	613.348	613.4923
1.03085	0.7629	1.03085	628.2843	652.3458
1.13143	0.29261	1.13143	538.4338	602.6326
1.06631	0.14107	1.06631	3895.565	4156.448
-1.06315	0.6884	0.9406	266.7391	251.1263
-1.0851	0.63797	0.92158	286.5642	264.3178
-1.05453	0.54245	0.94829	2262.029	2117.737
1.0658	0.18958	1.0658	1716.477	1829.628
1.0261	0.68759	1.0261	5489.721	5661.303
1.03453	0.57713	1.03453	4301.02	4505.392
1.0264	0.74861	1.0264	820.3966	837.9077
1.01356	0.88242	1.01356	2722.191	2711.061
-1.03808	0.56115	0.96332	764.8932	736.0076
-1.09987	0.21477	0.9092	16683.28	15439.88
-1.25275	0.00811	0.79824	1499.018	1194.397
-1.0538	0.67225	0.94895	671.4843	635.4492
-1.02882	0.64937	0.97199	777.6534	756.8699
1.27237	0.02406	1.27237	545.4453	689.0107
-1.16825	0.00111	0.85598	2325.321	1989.792
-1.0251	0.87327	0.97552	328.0676	316.9699
1.18941	0.01015	1.18941	1439.253	1713.995
1.44916	0.00002	1.44916	4964.964	7031.529
-1.09859	0.58729	0.91026	386.4493	353.9135
-1.02706	0.66937	0.97366	1011.302	986.3878

-1.02781	0.78105	0.97294	419.6557	408.9051
1.09001	0.22685	1.09001	1461.888	1594.372
-1.00582	0.93438	0.99421	1752.391	1727.78
-1.02059	0.68796	0.97982	1673.036	1639.495
-1.01013	0.87169	0.98997	1496.307	1480.745
1.05628	0.64676	1.05628	510.3501	535.9951
1.19536	0.1282	1.19536	567.2029	686.3635
1.00181	0.98629	1.00181	630.4327	625.3922
-1.35896	6.10E-11	0.73586	13345	9796.883
-1.17323	0.13307	0.85235	527.8217	451.4598
1.07151	0.44624	1.07151	668.6521	720.3148
1.06816	0.34604	1.06816	1194.114	1274.285
-1.01356	0.96048	0.98662	190.8733	187.6067
-1.01091	0.83335	0.98921	1562.442	1545.8
1.04745	0.39301	1.04745	1784.02	1870.47
1.04192	0.34751	1.04192	4416.808	4606.009
1.0663	0.65795	1.0663	713.7618	746.322
1.00546	0.97588	1.00546	1304.633	1320.709
-1.05266	0.85754	0.94997	159.9637	150.6526
1.22202	0.01591	1.22202	6201.014	7490.811
1.14006	0.23399	1.14006	1481.335	1702.104
-1.12165	0.67605	0.89154	230.7855	201.9025
-1.04548	0.78489	0.9565	346.5756	333.3066
1.0163	0.71323	1.0163	2779.872	2824.553
-1.06472	0.86806	0.93921	132.248	125.0364
1.03532	0.52354	1.03532	1866.608	1933.255
1.0108	0.82083	1.0108	2091.28	2112.493
1.33776	0.00229	1.33776	382.6766	510.5796
-1.04972	0.6935	0.95264	390.4485	374.9041
-1.14577	0.8745	0.87278	66.97808	57.11918
1.49748	0.00052	1.49748	341.8336	508.3051
-1.05578	0.68243	0.94716	384.0375	367.5928
1.13374	0.32193	1.13374	953.856	1059.93
-1.16102	0.22039	0.86131	886.7183	774.8333
1.20461	0.23927	1.20461	435.2858	507.8536
-1.00854	0.90985	0.99153	4088.897	4026.288
1	1	1	23.28231	21.72747
1.04729	0.71687	1.04729	314.19	329.0618
-1.59557	0.00778	0.62673	3489.303	2101.731
-1.17618	0.07632	0.85021	7312.926	6081.933
1.0295	0.87242	1.0295	296.6946	311.7579
-1.00831	0.9377	0.99176	920.5143	924.6217
1.00412	0.95724	1.00412	721.6609	722.1374
-1.06275	0.91885	0.94095	100.1877	90.73488
1.28715	0.12145	1.28715	1820.745	2383.83
1.6657	2.96E-07	1.6657	384.5871	644.2709
1.10411	0.70543	1.10411	205.1842	238.0527
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1.02828	0.60959	1.02828	3378.885	3469.164
1	1	1	22.3829	21.67142
1.03125	0.74673	1.03125	769.6965	799.9045
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1.01121	0.8222	1.01121	1956.526	1978.051
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-1.16041	0.09179	0.86177	3879.522	3325.791
-1.00742	0.91968	0.99263	2108.57	2114.127
-1.01007	0.956	0.99003	285.7317	283.2291
-1.00627	0.92095	0.99377	2591.441	2571.794
1.07879	0.35215	1.07879	1082.853	1165.092
1.02084	0.61739	1.02084	6862.399	7006.573
1.09522	0.21819	1.09522	4580.072	5095.169
1.0185	0.85111	1.0185	999.0458	1005.943
-1.05514	0.67868	0.94774	331.455	314.1508
1.05438	0.32055	1.05438	1624.666	1713.156
-1.02648	0.85104	0.97421	478.9285	471.1594
-1.09482	0.25695	0.91339	1834.31	1664.866
1.16245	0.13025	1.16245	7251.876	8567.486
1.04271	0.8919	1.04271	154.6333	162.8672
1.05617	0.33709	1.05617	4203.349	4402.07
-1.08906	0.3124	0.91822	1151.498	1062.248
1.48647	0.55734	1.48647	57.32361	79.90497
1.054	0.43275	1.054	971.7828	1025.211
1.1524	0.21555	1.1524	420.384	486.7854
1.06854	0.32647	1.06854	1224.792	1308.211
1.08803	0.31526	1.08803	637.9088	696.9682
1.49009	0.01151	1.49009	217.4662	326.3259
-1.09541	0.83783	0.9129	129.5743	115.4643
1.24745	0.42268	1.24745	128.3144	159.9144
1.02897	0.7791	1.02897	593.0706	612.4267
-1.13412	0.38738	0.88174	471.8789	424.7196
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-1.06674	0.4449	0.93743	1556.998	1463.525
1.27424	0.03929	1.27424	364.7366	464.2004
1.07371	0.29959	1.07371	1887.957	2017.88
1.23178	0.03063	1.23178	660.318	808.0771
1.12951	0.30736	1.12951	32638.21	36154.21
-1.57747	0.00008	0.63393	1102.684	702.782
1.0908	0.50101	1.0908	293.0148	319.4771
-1.05577	0.61016	0.94718	1115.019	1056.576
-1.22552	0.07393	0.81598	3930.136	3105.546
1.01636	0.82329	1.01636	694.7092	704.5322
-1.32918	0.01707	0.75235	3750.978	2769.303
-1.12704	0.15721	0.88728	1186.443	1052.698
-1.17628	0.00382	0.85014	8759.924	7485.887
1.10672	0.93049	1.10672	38.55853	40.48451
-1.10799	0.14384	0.90253	9571.428	8510.977
1.12913	0.12698	1.12913	4414.639	4950.73
1.00923	0.88448	1.00923	1652.864	1665.726
1.14132	0.1612	1.14132	167572.8	187095
1.01871	0.78477	1.01871	1056.674	1073.899
1.0346	0.69785	1.0346	657.0477	683.6576
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-1.09018	0.21669	0.91728	2034.924	1874.67
1.13574	0.14004	1.13574	576.5398	656.673
1.05308	0.87636	1.05308	127.4257	135.8919
-1.01658	0.72281	0.98369	2942.686	2895.972
-1.14361	0.01136	0.87442	10920.17	9597.123
1.08223	0.25231	1.08223	683.5187	741.4335
1.08537	0.83949	1.08537	112.6549	123.3041
1.34446	0.3822	1.34446	100.7361	133.1939
-1.00354	0.95909	0.99647	1104.938	1104.007
1.09723	0.56171	1.09723	348.3868	390.4239
1.0405	0.43367	1.0405	1242.209	1292.306
-1.23471	0.00015	0.80991	5345.579	4317.708
-1.00048	0.99574	0.99952	4752.453	4700.297
-1.03982	0.98337	0.9617	25.36097	20.50919
1.00695	0.91161	1.00695	936.4384	944.7013
1.18515	0.11654	1.18515	341.7697	403.6672
-1.00929	0.96477	0.9908	259.2111	263.8248
-1.0445	0.69898	0.9574	587.5787	562.2738
1.00456	0.98635	1.00456	241.8404	248.8319
1.14835	0.0875	1.14835	70216.28	83839.03
-1.22971	0.05925	0.8132	1186.638	970.896
-1.28975	0.00751	0.77535	17754.93	13402.94
-1.08301	0.49758	0.92335	557.4525	515.0924
-1.01969	0.87352	0.98069	699.012	695.2283
1.07272	0.64375	1.07272	329.1102	355.5637
-1.4461	0.00319	0.69151	977.0481	682.8115
-1.26121	0.00016	0.79289	12257.65	9785.416
1	1	1	23.09135	21.6677
-1.17044	0.15283	0.85438	2380.031	2002.089
-1.00214	0.97903	0.99787	1357.814	1353.32
1.03823	0.58729	1.03823	866.3008	899.8072
1.07062	0.38654	1.07062	10633.38	11473.67
-1.01883	0.75711	0.98152	1030.247	1011.682
-1.07953	0.53461	0.92633	1106.929	1036.142
1.01243	0.88354	1.01243	639.6201	650.1319
1.04883	0.39122	1.04883	2439.308	2568.73
1.00246	0.9793	1.00246	1227.89	1224.244
1.0182	0.81943	1.0182	628.7689	641.8685
1.04989	0.49873	1.04989	1018.102	1071.176
-1.09277	0.23038	0.9151	1601.739	1460.413
-1.01711	0.97607	0.98318	96.48041	97.55698
1.07278	0.35825	1.07278	1347.948	1443.588
1.03034	0.92773	1.03034	158.1558	164.7551
-1.00089	0.98969	0.99911	5804.505	5811.597
1.11845	0.31919	1.11845	3301.25	3746.224
1.03891	0.47424	1.03891	5995.577	6258.135
1.04813	0.63034	1.04813	808.4608	853.5931
1.01916	0.98318	1.01916	50.93276	51.66746
1.08073	0.40683	1.08073	1196.108	1289.719

-1.00391	0.94905	0.99611	1416.366	1411.578
-1.0569	0.79173	0.94617	286.516	273.5761
1.02364	0.97134	1.02364	81.48325	83.98029
-1.00373	0.96321	0.99628	919.869	918.5271
-1.11121	0.61477	0.89992	287.4547	257.2125
-1.12987	0.19775	0.88506	539.7996	478.1483
1.52053	5.74E-18	1.52053	1680.321	2554.56
-1.03342	0.78206	0.96766	445.0617	429.4071
-1.00812	0.93873	0.99194	664.1068	663.8527
1.16877	0.35195	1.16877	382.2983	433.952
1.03164	0.78672	1.03164	633.3356	645.2335
1.60647	0.00015	1.60647	917.9372	1462.244
-1.00039	0.9965	0.99961	752.3523	757.0988
-1.20051	0.00262	0.83298	17213.77	14237.34
1.55985	1.53E-06	1.55985	18302.07	29564.18
1.06878	0.59559	1.06878	363.0866	384.8855
1.00079	0.99311	1.00079	26502.78	27268.88
-1.43503	0.07939	0.69685	411.2612	297.7315
1.26076	0.34991	1.26076	132.2407	168.2198
1.0488	0.69861	1.0488	519.6101	552.582
1.04655	0.52929	1.04655	6628.639	6950.09
1.2994	0.06872	1.2994	659.2139	841.4602
-1.11971	0.66416	0.89308	275.524	263.8687
1.17811	0.00202	1.17811	21883.69	25888.61
1.07373	0.25311	1.07373	6567.673	7101.25
-1.28889	0.00266	0.77586	1211.568	941.1355
1.06116	0.57581	1.06116	3196.375	3310.792
1.11893	0.15753	1.11893	1651.343	1844.864
-1.05133	0.61349	0.95118	518.0242	492.4399
-1.00469	0.98654	0.99533	166.0759	165.0054
1.58776	0.00003	1.58776	428.8637	679.9443
1.09983	0.55792	1.09983	309.6163	334.9006
-1.09288	0.38099	0.91502	960.9855	889.3582
-1.26639	0.0171	0.78965	1718.485	1348.99
-1.0235	0.80469	0.97704	1386.211	1357.993
-1.11844	0.06697	0.8941	1726.078	1541.725
-1.10947	0.67954	0.90133	288.465	251.27
-1.16137	0.10927	0.86105	1466.152	1262.46
1.0099	0.88327	1.0099	6779.788	6837.319
1.03864	0.58737	1.03864	879.0673	911.2323
1.13111	0.05199	1.13111	3811.962	4290.046
1.34926	0.06725	1.34926	564.4886	761.6436
-1.01577	0.91453	0.98448	321.8668	319.6787
-1.05505	0.87359	0.94782	161.3261	161.832
-1.25263	0.00021	0.79832	2203.707	1757.237
1.1189	0.19103	1.1189	1359.47	1529.974
1.0098	0.9106	1.0098	784.153	786.2795
1.15533	0.00084	1.15533	3400.2	3928.823
1.06102	0.34418	1.06102	2090.105	2204.205
1.14216	0.01808	1.14216	3753.885	4270.961
1.02835	0.85997	1.02835	311.8264	319.5897
-1.01749	0.73057	0.98281	1611.693	1584.363

-1.01155	0.87949	0.98858	924.4032	916.5276
-1.09586	0.38493	0.91253	5453.307	4835.418
-1.02859	0.80215	0.97221	448.2118	439.1159
1.00283	0.9602	1.00283	4482.065	4504.291
1.05127	0.4486	1.05127	972.5261	1023.074
-1.00079	0.98828	0.99921	3369.143	3369.167
1.36478	0.00019	1.36478	748.9209	1026.426
-1.194	0.01573	0.83752	1485.189	1242.288
1.05777	0.53027	1.05777	646.28	685.1716
-1.03913	0.408	0.96235	4072.602	3907.849
-1.3419	0.04414	0.74521	5909.11	4127.258
-1.03506	0.53315	0.96613	19214	18361.46
1.01063	0.88449	1.01063	3556.042	3592.223
1.01886	0.8636	1.01886	925.7449	948.0751
-1.00625	0.95376	0.99378	343.1235	340.6162
-1.01439	0.95151	0.98581	194.7805	195.6233
1.04113	0.54607	1.04113	1127.217	1169.925
1.03487	0.68569	1.03487	803.9462	835.4276
-1.1362	0.05924	0.88013	4283.734	3759.13
-1.06858	0.12308	0.93582	3197.636	2992.323
-1.00678	0.93533	0.99326	1502.245	1493.891
1.05908	0.71315	1.05908	254.7802	270.6173
-1.01863	0.73237	0.98171	1200.824	1180.518
1.2637	0.00001	1.2637	2218.884	2802.633
-1.06295	0.72748	0.94078	334.071	313.4647
-1.09695	0.7972	0.91162	158.4174	146.2762
1.05358	0.85973	1.05358	152.3649	160.9469
1.1244	0.10674	1.1244	1973.536	2236.709
-1.03597	0.58128	0.96528	1215.987	1170.775
-1.01707	0.93684	0.98322	359.52	333.0963
-1.01624	0.84691	0.98402	1646.124	1608.153
1.05739	0.55129	1.05739	475.6375	504.5377
1.08981	0.0692	1.08981	6544.709	7106.431
1.07639	0.44383	1.07639	1673.588	1795.916
1.03266	0.86015	1.03266	191.4825	197.0953
1.01129	0.86374	1.01129	4021.456	4090.79
-1.03982	0.78279	0.96171	445.5803	436.3429
-1.24803	0.11651	0.80126	490.9501	392.6545
1.17254	0.0886	1.17254	537.2842	626.7011
1.15046	0.12455	1.15046	968.0392	1106.84
-1.16668	0.42949	0.85713	262.8624	225.3846
1.00146	0.97886	1.00146	2549.6	2553.982
-1.01942	0.87073	0.98095	442.0415	429.8218
1.09061	0.39968	1.09061	622.6948	683.1013
1.01007	0.91838	1.01007	694.598	704.8982
-1.04351	0.63992	0.9583	1385.345	1331.528
-1.07303	0.54396	0.93194	529.1548	498.6243
1.03119	0.75022	1.03119	2142.868	2236.404
-1.09506	0.6113	0.9132	318.9625	291.3595
1.25602	0.00091	1.25602	3896.438	4935.96
-1.08056	0.6522	0.92545	390.1402	358.3176
1.03464	0.54057	1.03464	3801.066	3936.981

1.04789	0.51992	1.04789	1084.815	1138.813
1.0366	0.76946	1.0366	439.301	450.8514
1.06629	0.86757	1.06629	124.6373	132.4526
-1.33997	0.00051	0.74629	5120.135	3760.741
1.03817	0.65306	1.03817	1714.639	1791.962
1.47591	0.00016	1.47591	1064.614	1565.88
-1.1237	0.4372	0.88992	556.5666	498.8091
1.0075	0.99647	1.0075	25.1055	23.45382
-1.34254	0.0002	0.74486	75694.75	57226.02
-1.46113	2.96E-08	0.6844	3484.235	2367.982
1.04724	0.67293	1.04724	487.6553	506.4879
1.02022	0.73966	1.02022	1000.531	1020.477
1.04707	0.8033	1.04707	303.3518	318.4829
1.08564	0.34014	1.08564	596.901	645.1223
1.46505	3.70E-06	1.46505	24743.8	36793.51
1.02106	0.81055	1.02106	1105.365	1132.011
1.07358	0.30787	1.07358	2018.188	2162.252
-1.01445	0.80428	0.98576	2200.024	2164.895
-1.03077	0.88957	0.97015	320.4027	298.5131
1.04184	0.84203	1.04184	174.9905	183.5082
-1.09619	0.21119	0.91225	2108.538	1908.958
1.07444	0.2298	1.07444	8921.742	9504.971
-1.02397	0.73421	0.97659	3966.104	3884.36
1.01942	0.82404	1.01942	1324.146	1334.203
2.09488	2.22E-34	2.09488	2711.383	5647.649
1.03919	0.51591	1.03919	21457.09	22318.19
-1.06045	0.53385	0.943	1405.602	1333.323
1.06718	0.40515	1.06718	4711.542	4998.884
-1.10784	0.27162	0.90265	5653.067	5005.963
1.08936	0.37399	1.08936	731.9171	793.2617
-1.02593	0.794	0.97473	453.294	441.9539
1.1407	0.10563	1.1407	1704.618	1941.105
-1.02994	0.53154	0.97093	1805.542	1752.971
1.05327	0.61754	1.05327	5525.132	5701.145
1.01626	0.80577	1.01626	4970.07	5049.235
-1.32223	0.23926	0.7563	632.7219	482.0087
-1.69794	0.00002	0.58895	1369.667	805.6698
-1.21834	0.62767	0.82079	128.4088	108.1522
1.01225	0.8859	1.01225	526.3202	532.3099
-1.5774	0.05641	0.63395	1072.642	690.0442
-1.01139	0.87711	0.98874	660.5551	651.7958
1.00464	0.91413	1.00464	5215.866	5242.899
-1.03243	0.81301	0.96859	1339.918	1301.283
-1.01731	0.86655	0.98298	1736.023	1703.803
1.21108	0.0142	1.21108	915.9066	1113.228
1.35774	3.79E-07	1.35774	11684.16	15765.22
-1.1346	0.14963	0.88137	1167.634	1032.279
1.02414	0.65102	1.02414	1140.423	1166.979
1.19827	0.01415	1.19827	3534.887	4192.065
1.03907	0.70388	1.03907	7258.623	7388.146
-1.12275	0.66528	0.89067	232.3871	210.1236
-1.02249	0.94422	0.97801	131.6949	127.5988

-1.00853	0.96403	0.99154	353.8552	346.2927
-1.10706	0.28013	0.9033	1289.206	1161.641
-1.05838	0.24164	0.94484	4215.694	3980.954
1.15217	0.16908	1.15217	1082.601	1241.038
1.12892	0.02369	1.12892	1732.232	1957.541
1.16725	0.27287	1.16725	520.8202	595.5465
1.07555	0.77442	1.07555	171.3701	184.06
-1.02242	0.76449	0.97807	756.535	738.2921
-1.32938	0.00921	0.75223	2295.598	1749.924
-1.01547	0.86698	0.98476	672.2621	665.4965
-1.27482	0.05012	0.78443	905.3799	718.7134
-1.11308	0.39036	0.89841	790.5864	720.4315
1.0528	0.86953	1.0528	149.4356	152.3729
1	1	1	22.70227	23.2275
1.08215	0.68298	1.08215	220.0082	240.5523
-1.11912	0.24893	0.89356	805.8002	725.713
1.0191	0.82975	1.0191	702.5906	720.0754
-1.09843	0.66604	0.91039	227.9059	211.6829
1.309	0.10901	1.309	272.1297	350.5043
1.05447	0.39572	1.05447	1202.839	1268.167
-1.02134	0.94096	0.9791	183.2723	178.4565
1.50451	0.16775	1.50451	129.3942	189.5706
1.03907	0.60276	1.03907	621.2591	646.0288
1.03649	0.7103	1.03649	2463.552	2578.849
-1.00441	0.92779	0.99561	2070.277	2061.646
1.07804	0.62519	1.07804	338.5437	365.5296
-1.06471	0.46164	0.93922	808.2452	756.8862
1.04571	0.65897	1.04571	1380.013	1436.157
-1.06173	0.54314	0.94186	1138.259	1077.742
1.03723	0.71021	1.03723	1084.804	1122.899
-1.14654	0.04439	0.87219	2768.327	2391.237
1.0616	0.49326	1.0616	1008.948	1071.397
-1.15752	0.19014	0.86392	2260.656	1931.424
1.13812	0.49708	1.13812	200.0729	229.0234
1.04126	0.83603	1.04126	236.0658	242.3441
1.03662	0.55879	1.03662	1638.785	1696.248
1.20725	0.00357	1.20725	1919.35	2311.532
-1.49294	0.00005	0.66982	2711.802	1807.465
-1.02708	0.85739	0.97364	399.9691	396.7109
1.00946	0.84899	1.00946	2851.918	2880.272
1.06517	0.50719	1.06517	3566.044	3839.888
1.16876	0.00632	1.16876	1019.089	1191.163
-1.08167	0.35959	0.9245	484.0424	447.312
1.25116	0.00156	1.25116	1341.747	1680.932
1.19866	0.53069	1.19866	159.4133	187.5604
-1.04243	0.66464	0.9593	564.8355	539.0998
-1.3999	0.45527	0.71434	118.085	84.60406
1.00894	0.90703	1.00894	18284.05	18054.02
1.04215	0.68225	1.04215	1372.776	1439.871
1.11959	0.30383	1.11959	456.1635	507.299
-1.09753	0.4204	0.91113	403.1843	369.0582
-1.21359	0.00697	0.824	15339.65	12399.02

1.00632	0.88583	1.00632	2380.161	2395.156
1.12342	0.56086	1.12342	296.7258	321.1326
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1.07073	0.60805	1.07073	399.4634	423.1605
-1.11744	0.65299	0.8949	249.0886	224.3993
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1.25611	0.08098	1.25611	466.3396	580.0261
-1.07124	0.16773	0.9335	12025.87	11201.42
1.00866	0.94471	1.00866	469.178	477.3937
1.07077	0.15612	1.07077	2481.006	2656.118
1.05776	0.3576	1.05776	2441.248	2595.863
1.04834	0.59897	1.04834	479.2893	502.7246
-1.02686	0.85809	0.97384	25508.6	22980.38
1.08014	0.28311	1.08014	18885.95	20092.74
-1.064	0.19512	0.93985	1940.749	1821.944
-1.02658	0.64543	0.9741	2045.073	1990.028
1.01175	0.89092	1.01175	973.2633	989.183
1.00445	0.94321	1.00445	4484.036	4478.762
1.0379	0.6131	1.0379	1468.759	1523.258
1.29741	0.01742	1.29741	692.1989	889.6265
1.06669	0.78282	1.06669	360.2327	359.3678
1.0101	0.98356	1.0101	110.6629	110.7875
-1.03256	0.78921	0.96846	523.3283	508.9233
-1.07482	0.13267	0.93039	8180.548	7642.345
-1.04538	0.66186	0.95659	497.2512	475.4448
-1.06409	0.61161	0.93977	4624.681	4447.418
1.28922	0.00022	1.28922	1025.595	1322.146
1.052	0.80516	1.052	182.3999	192.9056
-1.26106	0.00186	0.79298	3527.755	2760.313
1.00472	0.97906	1.00472	334.7848	338.0491
1.25201	0.0085	1.25201	578.008	722.5752
1.15126	0.69381	1.15126	153.6866	163.7083
1.04058	0.37147	1.04058	3995.027	4157.303
-1.0034	0.96546	0.99661	926.475	926.6866
1.01389	0.86275	1.01389	835.2533	842.5974
1.13355	0.37156	1.13355	1572.254	1814.232
-1.08407	0.84809	0.92245	134.8958	122.7238
1.14805	0.33614	1.14805	445.9785	502.4892
1.07782	0.58878	1.07782	387.9337	412.2393
-1.06802	0.399	0.93631	723.8162	677.0386
1.00913	0.88868	1.00913	1980.731	1997.999
-1.23399	0.21976	0.81038	700.6523	576.9789
1.0381	0.47829	1.0381	2623.048	2725.094
-1.08524	0.31617	0.92146	631.6804	584.0129
-1.20507	0.25399	0.82983	344.7061	290.1839
-1.09115	0.32755	0.91647	499.0183	458.5188
1.17547	0.06255	1.17547	978.3947	1151.476
1.00667	0.87895	1.00667	7696.96	7736.607
-1.02222	0.87988	0.97826	524.9122	525.4524
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-1.0046	0.93223	0.99542	2355.929	2345.566

1.00503	0.93391	1.00503	2700.714	2712.857
-1.07016	0.14747	0.93444	6593.095	6141.315
-1.09638	0.23834	0.91209	1165.34	1068.056
1.15525	0.06128	1.15525	925.492	1068.247
-1.07495	0.22076	0.93027	1514.683	1414.57
1.12291	0.29878	1.12291	2403.027	2647.33
-1.08202	0.76233	0.9242	222.1514	216.9205
-1.03185	0.70164	0.96914	1312.248	1280.438
-1.77601	8.44E-08	0.56306	5528.439	3039.581
1.02037	0.74984	1.02037	809.6592	826.3613
-1.02625	0.76071	0.97442	711.5333	696.4945
-1.02139	0.6738	0.97906	1714.001	1678.474
1.12262	0.3012	1.12262	825.6403	916.2406
-1.04191	0.66721	0.95978	573.3516	550.1086
1.07788	0.58118	1.07788	568.9918	625.4774
1.03911	0.69664	1.03911	1242.918	1283.869
-1.03876	0.50846	0.96268	1559.214	1500.044
-1.0162	0.86835	0.98406	1615.626	1567.696
-1.02054	0.80784	0.97988	703.5917	692.1846
-1.06892	0.62591	0.93553	266.6777	249.4329
-1.03615	0.78784	0.96511	470.701	460.7099
-1.25309	0.42745	0.79803	185.6989	148.3782
-1.43786	0.01689	0.69548	3013.224	2055.875
1.12163	0.53084	1.12163	190.6455	212.5961
1.05129	0.72653	1.05129	353.2906	366.8162
1.11658	0.08362	1.11658	8744.698	9882.028
1.05932	0.43967	1.05932	828.1269	875.9147
-1.00608	0.9657	0.99396	374.5863	371.9424
-1.00814	0.93825	0.99192	541.2001	533.552
-1.00676	0.90407	0.99328	2135.938	2126.025
1.25	0.02393	1.25	392.3109	489.9372
-1.01571	0.98568	0.98453	62.57166	58.57555
-1.01421	0.84464	0.98598	1411.365	1389.49
-1.08215	0.45932	0.92409	1387.162	1294.398
-1.06495	0.48163	0.93901	852.4716	805.5078
1.03344	0.57063	1.03344	1335.287	1377.808
-1.08162	0.40107	0.92454	683.9226	633.361
1.07089	0.31833	1.07089	1026.075	1098.111
1.06482	0.37548	1.06482	739.986	787.2003
-1.08879	0.25191	0.91845	760.3064	698.8983
1.05688	0.75554	1.05688	206.0196	217.3421
-1.29412	0.36038	0.77272	239.8377	195.1572
1.07256	0.83725	1.07256	105.0709	112.3924
-1.00196	0.98275	0.99804	4269.428	4190.522
-1.63535	5.88E-08	0.61149	2838.717	1723.078
1.02384	0.58795	1.02384	15143.7	15536.42
1.05398	0.45483	1.05398	4701.522	4978.925
1.01433	0.73812	1.01433	6538.919	6633.817
-1.12463	0.15743	0.88918	829.9269	741.9147
1.15872	0.28115	1.15872	350.751	409.9993
-1.03577	0.64593	0.96546	1425.157	1374.776
1.06537	0.54784	1.06537	6756.233	7062.767

1.06472	0.9273	1.06472	78.38163	78.60867
-1.17849	0.41344	0.84854	466.329	411.7271
1.06483	0.77882	1.06483	163.8216	174.6602
1.12037	0.06184	1.12037	844.1374	945.5665
1.2449	0.03819	1.2449	5707.917	7332.846
1.14482	0.92336	1.14482	31.47381	35.25971
-1.45297	0.51436	0.68824	153.0518	105.1931
1.01975	0.78437	1.01975	1723.38	1760.99
1.14221	0.04921	1.14221	1308.937	1487.403
1.00302	0.95822	1.00302	1147.806	1150.865
-1.40844	6.42E-06	0.71	2656.053	1873.653
1.03597	0.71556	1.03597	416.5954	431.4398
1.01455	0.85624	1.01455	596.5573	603.354
-1.07776	0.42683	0.92785	985.7573	924.047
-1.08156	0.17224	0.92459	2363.13	2180.27
1.05398	0.83836	1.05398	196.2391	207.0333
-2.17568	5.13E-06	0.45963	3226.57	1413.603
-1.262	0.17376	0.79239	536.4404	440.4594
1.0545	0.44343	1.0545	3256.919	3456.049
-1.13963	0.0361	0.87748	4116.719	3610.021
-1.04127	0.73696	0.96036	435.5742	415.9233
1.03731	0.4383	1.03731	1787.827	1854.6
-1.02534	0.95611	0.97528	90.13412	87.78375
-1.05544	0.30878	0.94747	1043.619	989.0814
1.0536	0.43621	1.0536	2067.594	2162.459
-1.03491	0.90546	0.96627	199.5838	190.9869
-1.01281	0.93694	0.98735	362.4946	365.561
1.00656	0.92852	1.00656	595.5081	598.6082
-1.01067	0.86647	0.98944	1025.233	1016.915
1.13139	0.43592	1.13139	458.5396	519.1668
1.38393	0.00404	1.38393	547.937	766.1971
1.09939	0.82783	1.09939	105.3257	114.6534
-1.70591	4.89E-06	0.5862	879.2331	520.7718
-1.06067	0.27354	0.9428	1101.385	1038.868
-1.38649	0.00074	0.72124	25148.66	17606.71
-1.09003	0.63173	0.9174	291.1549	270.571
1.035	0.6416	1.035	975.6802	1004.367
-1.00767	0.89289	0.99239	3482.336	3453.706
1.01703	0.88255	1.01703	550.7914	565.939
1.03168	0.71478	1.03168	914.1779	937.8961
-1.07203	0.4298	0.93281	2659.484	2474.212
1.38389	0.79391	1.38389	33.09963	43.63736
1.02489	0.78351	1.02489	848.6773	874.728
1.0183	0.85975	1.0183	428.6589	436.2446
-1.00432	0.94071	0.9957	1052.774	1048.485
1.01525	0.81136	1.01525	1142.395	1159.769
-1.32412	0.03908	0.75522	1153.104	873.0949
1.75502	0.00006	1.75502	413.5629	713.7225
-1.15651	0.02017	0.86467	9784.627	8349.088
1.0198	0.67837	1.0198	5229.114	5327.901
1.25289	0.00002	1.25289	1092.808	1367.809
1.07939	0.45782	1.07939	960.061	1039.237

-1.10088	0.39992	0.90836	10436.3	9133.817
-1.04978	0.55913	0.95258	2234.132	2124.508
-1.00102	0.99171	0.99898	1642.778	1632.044
-1.43128	0.00006	0.69868	679.5005	475.454
-1.06503	0.52694	0.93894	636.9589	602.172
-1.07465	0.645	0.93054	354.0356	332.4653
-1.06293	0.48183	0.94079	549.8254	517.3239
1.80825	1.39E-12	1.80825	930.2505	1683.66
-1.0046	0.97969	0.99542	285.2142	284.5841
-1.11712	0.40024	0.89516	695.1852	623.2765
-1.07236	0.32616	0.93252	885.1749	826.2983
1.07386	0.5165	1.07386	384.8724	411.1127
1.07796	0.93242	1.07796	48.94174	56.77569
1.05277	0.28791	1.05277	8262.723	8705.819
-1.00859	0.9449	0.99149	756.4529	761.9403
-1.14637	0.69985	0.87232	138.9468	125.0945
1.00268	0.95652	1.00268	772.9497	779.8811
1.03028	0.87044	1.03028	241.624	246.6957
1.0847	0.48375	1.0847	376.1747	405.8685
-1.1411	0.509	0.87635	282.7281	253.8472
1.00025	0.99953	1.00025	144.9443	150.7744
1.09221	0.22468	1.09221	831.0874	906.5898
1.04935	0.4641	1.04935	3776.735	3918.771
-1.26063	0.00203	0.79326	5418.086	4225.19
1.01465	0.72153	1.01465	6154.188	6244.29
-1.08613	0.34643	0.9207	2256.28	2055.969
1.00986	0.81923	1.00986	2599.225	2624.793
1.00354	0.95252	1.00354	2682.618	2693.506
-1.0745	0.30356	0.93067	1417.614	1321.501
1.03491	0.59006	1.03491	865.0577	894.8323
1.20033	0.00888	1.20033	695.5723	835.2915
-1.01491	0.78028	0.98531	2093.096	2062.636
1.00093	0.99095	1.00093	751.6252	756.1758
-1.40485	0.01242	0.71182	1204.979	877.0791
1.06815	0.27156	1.06815	1450.429	1545.775
1.2495	0.05671	1.2495	7887.897	9793.863
1.02577	0.75295	1.02577	737.6836	753.2449
-1.06321	0.30283	0.94055	1521.76	1425.264
-1.03395	0.93156	0.96717	144.7444	135.1835
1.04557	0.92786	1.04557	112.0776	122.8751
-1.01032	0.92573	0.98978	572.2056	571.9899
-1.40007	0.07655	0.71425	361.3443	263.6525
1.42146	0.00002	1.42146	685.3064	971.851
1.09623	0.10048	1.09623	6350.737	6977.984
-1.30983	0.00003	0.76346	2494.726	1899.929
1.1876	0.17512	1.1876	405.4952	476.1289
1.05909	0.40725	1.05909	2511.145	2648.871
-1.16358	0.07482	0.85942	9109.314	7660.551
1.05499	0.46203	1.05499	1119.762	1181.584
-1.05325	0.42915	0.94944	4702.024	4452.04
1.02434	0.72354	1.02434	2598.708	2638.588
-1.14028	0.4861	0.87698	373.5037	323.846

1.06795	0.89254	1.06795	98.59021	99.90465
1.06827	0.57082	1.06827	847.0209	897.9944
1.01295	0.88387	1.01295	923.6556	937.163
-1.04329	0.83196	0.95851	200.6899	191.722
1.0041	0.96026	1.0041	962.3595	968.8268
1.1308	0.34026	1.1308	778.1413	867.6943
1.06396	0.59577	1.06396	464.5237	498.919
1.15687	0.00193	1.15687	24671.71	28635.27
1.04867	0.77993	1.04867	236.515	248.9399
1.02564	0.59974	1.02564	4331.901	4459.877
1.04735	0.54195	1.04735	1896.48	1984.123
1.0472	0.47265	1.0472	2223.904	2327.964
-1.07613	0.49309	0.92926	507.3026	473.8455
-1.15945	0.24339	0.86248	12330.09	11050.03
1.02469	0.7398	1.02469	10091.88	10428.84
-1.0657	0.35939	0.93835	1408.281	1325.535
1.05872	0.64009	1.05872	467.5917	492.3466
1.5255	0.40575	1.5255	61.67295	91.80357
-1.08575	0.86915	0.92102	125.8067	108.5241
1.12116	0.8677	1.12116	81.11322	85.65755
1.24535	0.07042	1.24535	362.9311	454.5299
1.19464	0.11833	1.19464	430.3796	510.8376
1.00266	0.9751	1.00266	954.3803	957.5603
1.09101	0.1688	1.09101	5629.348	6070.707
1.01671	0.92918	1.01671	233.5907	236.2765
-1.0492	0.84964	0.95311	187.4019	174.8798
-1.1769	0.02119	0.84969	1810.723	1530.799
-1.32596	0.00944	0.75417	591.9275	448.3578
1.21542	0.07831	1.21542	1910.992	2344.563
-1.10461	0.45786	0.9053	589.1171	538.3284
1.16292	0.0144	1.16292	2137.423	2470.574
-1.08319	0.86326	0.9232	121.5897	113.1721
-1.02724	0.82162	0.97348	474.2857	461.9163
1.09724	0.57855	1.09724	286.9029	310.4587
1.19594	0.02117	1.19594	721.4933	863.8428
1.01617	0.84533	1.01617	902.3419	912.9623
-1.00598	0.89315	0.99406	4602.691	4574.319
1.0595	0.60165	1.0595	859.4533	900.8884
-1.10523	0.47611	0.90479	581.0328	534.6632
1.18755	0.07135	1.18755	1094.853	1305.567
1.01546	0.91429	1.01546	274.0494	278.8603
1.18219	0.03734	1.18219	6909.84	8195.143
-1.05192	0.90903	0.95064	118.7918	112.3597
-1.11867	0.23108	0.89392	984.9008	886.3793
1.00184	0.98596	1.00184	495.8343	500.3129
1.02881	0.78927	1.02881	483.5904	497.8248
1.16499	0.04751	1.16499	1427.642	1662.649
-1.01944	0.85356	0.98093	468.4144	462.4362
-1.13028	0.12087	0.88473	715.6758	635.8986
-1.03756	0.72221	0.9638	619.1289	600.1157
-1.12846	0.21835	0.88616	9244.029	8346.25
1.15737	0.30098	1.15737	1807.933	2014.312

-1.21467	0.21697	0.82327	443.1345	363.496
-1.02064	0.71774	0.97978	4092.247	4014.488
-1.02691	0.72999	0.9738	848.5238	823.6243
-1.08779	0.12287	0.91929	1011.243	929.2601
1.01862	0.83415	1.01862	572.269	582.3862
-1.21412	0.0003	0.82364	3450.378	2843.427
-1.13409	0.34007	0.88176	664.6553	596.4761
1.12441	0.31341	1.12441	1545.761	1732.863
-1.07751	0.57628	0.92807	517.8674	487.9274
-1.00694	0.94542	0.99311	1395.905	1391.953
1.02503	0.8442	1.02503	560.1554	571.8016
-1.04444	0.50237	0.95745	1611.081	1532.766
-1.46027	0.00086	0.6848	14657.47	9586.091
1.11221	0.48872	1.11221	251.57	278.1992
-1.14199	0.57602	0.87566	339.1299	315.1106
1.32718	0.00005	1.32718	1047.959	1387.894
1.06991	0.61966	1.06991	303.2671	326.15
-1.03495	0.57344	0.96623	2087.58	2018.578
-1.00364	0.95477	0.99637	1040.676	1038.474
-1.05288	0.58705	0.94977	580.3937	553.4381
1.06599	0.34662	1.06599	1103.525	1179.827
-1.03352	0.52266	0.96757	1940.915	1876.989
-1.14024	0.69432	0.87701	190.9699	163.4115
1.28213	0.00005	1.28213	1643.327	2111.985
-1.01486	0.96249	0.98536	191.2969	184.153
-1.16869	0.1816	0.85566	1243.136	1068.389
1.14711	0.56666	1.14711	228.5053	265.4136
1.00978	0.89001	1.00978	771.259	780.4854
-1.06789	0.56701	0.93642	416.7474	391.5196
-1.05196	0.87255	0.95061	178.0384	167.5778
-1.04369	0.5419	0.95814	1271.961	1220.53
-1.11408	0.17657	0.8976	2055.979	1832.971
-1.0865	0.09156	0.92039	3905.234	3605.575
-1.00582	0.94491	0.99421	521.9579	520.1461
-1.06593	0.78989	0.93815	229.8135	214.4841
-1.31376	8.00E-06	0.76118	3604.665	2719.351
1.03957	0.61175	1.03957	2588.857	2705.973
1.11302	0.27887	1.11302	1116.505	1245.018
-1.14413	0.57161	0.87402	216.9319	189.1486
-1.07615	0.74786	0.92923	257.4403	239.8075
1.09174	0.49861	1.09174	340.5419	369.3665
-1.09486	0.74938	0.91336	235.3575	207.204
1.00688	0.96165	1.00688	695.7201	695.1771
1.07647	0.52772	1.07647	712.5934	758.327
-1.01483	0.80526	0.98538	2330.063	2304.23
-1.05824	0.80061	0.94497	277.6013	260.0154
-1.00698	0.94666	0.99307	809.9734	810.8127
1.02184	0.8193	1.02184	2234.829	2277.741
1.15284	0.05724	1.15284	1310.015	1514.079
-1.01385	0.75929	0.98634	9880.896	9748.318
1.06432	0.49655	1.06432	706.4979	747.4297
-1.12289	0.14773	0.89056	1347.711	1203.259

-1.00157	0.97845	0.99843	6725.317	6726.568
1.16842	0.05038	1.16842	3559.567	4103.26
1.07227	0.44471	1.07227	1404.162	1503.352
1.00263	0.96586	1.00263	6899.168	6905.159
1.07114	0.82866	1.07114	178.0914	195.375
1.0711	0.26057	1.0711	1046.525	1120.895
1.34688	9.82E-07	1.34688	1364.685	1840.084
-1.1222	0.2576	0.89111	1002.129	898.8025
1	1	1	24.98734	19.87457
-1.01613	0.82407	0.98413	1747.414	1718.291
-1.09814	0.07954	0.91063	2654.069	2414.458
1.03465	0.73446	1.03465	1547.212	1612.763
1.221	0.00827	1.221	1166.33	1426.12
1.29641	0.00064	1.29641	845.8342	1097.61
1	1	1	23.8208	20.91428
-1.08491	0.67063	0.92174	319.8519	296.8575
1.13066	0.66059	1.13066	1909.242	2285.615
-1.05818	0.25454	0.94502	3521.212	3334.125
1.0549	0.75288	1.0549	265.8845	279.703
1.0392	0.63854	1.0392	546.0859	568.5949
1.01465	0.84033	1.01465	948.7308	963.8298
-1.01877	0.85207	0.98158	1545.502	1538.366
-1.01636	0.78548	0.9839	9127.542	8892.026
1.11697	0.38671	1.11697	1372.407	1532.236
-1.19351	0.00024	0.83786	5895.531	4928.594
-1.04987	0.4512	0.9525	1603.516	1527.922
1.28342	0.0017	1.28342	8817.877	11151.19
1.19402	0.05882	1.19402	856.5179	1025.054
-1.14919	0.40723	0.87018	264.442	229.9258
1.0722	0.40258	1.0722	594.6965	636.6058
1.01762	0.84277	1.01762	675.7128	689.9617
-1.09783	0.79983	0.91089	102.9173	92.72461
1.18935	0.08013	1.18935	1929.895	2269.228
-1.00809	0.93334	0.99197	1492.29	1472.688
1.07618	0.35234	1.07618	1965.934	2116.299
-1.0267	0.87431	0.97399	485.8041	468.9293
1.18622	0.04903	1.18622	599.204	713.9264
1.04	0.41519	1.04	1982.979	2061.653
1.13173	0.51309	1.13173	225.0374	253.1919
1.21931	0.00001	1.21931	45087.96	55106.04
2.20698	7.62E-19	2.20698	862.1111	1910.528
1.08258	0.71239	1.08258	238.593	251.6664
1.0708	0.39723	1.0708	1817.393	1944.662
-1.03597	0.76546	0.96528	430.4644	419.1661
-1.35394	0.00432	0.73858	1382.33	1017.293
1.03206	0.61951	1.03206	931.1402	960.162
1.282	0.06964	1.282	553.0996	696.1736
-1.17085	0.27483	0.85408	784.0213	682.009
1.04228	0.6803	1.04228	711.2057	735.3284
1.24886	0.40725	1.24886	149.9943	187.6121
-1.09759	0.28298	0.91109	563.2224	515.0493
1.01259	0.8331	1.01259	1425.826	1441.713

1.01221	0.86527	1.01221	1569.809	1592.078
-1.19147	0.41666	0.8393	292.2424	254.4683
1.05235	0.56129	1.05235	1886.742	2017.698
1.00259	0.98323	1.00259	5420.153	5263.2
-1.1221	0.0652	0.89119	1591.528	1416.775
1.06178	0.27774	1.06178	4272.358	4519.76
-1.05338	0.67051	0.94932	352.762	334.3976
1.05568	0.70876	1.05568	291.2404	307.7879
-1.09858	0.31662	0.91027	1041.481	951.8411
-1.01685	0.87511	0.98343	693.3207	681.3752
-2.20408	2.81E-14	0.4537	4396.061	1933.49
-1.13616	0.38219	0.88016	4240.738	3824.523
-1.18438	0.00204	0.84432	47785.58	40656.42
1.03434	0.4815	1.03434	5810.653	5996.503
1.11136	0.95519	1.11136	22.86251	23.5121
1.08228	0.52538	1.08228	8350.742	8843.531
1.03572	0.80618	1.03572	404.3411	412.5691
1.10135	0.76397	1.10135	138.8127	152.4088
-1.06197	0.78863	0.94165	229.8678	221.6921
-1.2416	0.03161	0.80541	1478.407	1186.969
1.00446	0.96049	1.00446	503.6863	505.6149
-1.00817	0.89919	0.99189	3056.865	3024.464
1.05365	0.52357	1.05365	3345.873	3552.842
1.18537	0.00144	1.18537	1437.915	1704.003
1.06491	0.69386	1.06491	249.8184	266.0143
1.44141	0.00027	1.44141	1077.529	1557.359
-1.06012	0.70561	0.94329	350.8892	335.6166
-1.42121	0.001	0.70363	2049.684	1457.198
-1.01304	0.76355	0.98713	4357.795	4302.863
1.01391	0.86561	1.01391	653.5062	661.2184
-1.09229	0.22269	0.91551	3557.136	3227.19
-1.02899	0.69572	0.97182	793.5246	771.5043
-1.02927	0.50122	0.97156	3483.812	3385.236
-1.0345	0.66165	0.96665	611.0679	589.4652
1.13127	0.19319	1.13127	1019.299	1153.595
-1.01042	0.93372	0.98969	845.592	845.9
-1.12897	0.09025	0.88576	4297.938	3889.398
-1.11509	0.54112	0.89679	394.6371	351.1059
-1.14177	0.17197	0.87583	1328.853	1183.53
1.17141	0.00701	1.17141	1133.974	1327.398
1.09443	0.15596	1.09443	1039.466	1135.698
-1.136	0.48956	0.88028	365.1914	318.7058
-1.29922	0.0634	0.76969	3187.344	2382.443
1.00615	0.94323	1.00615	1289.79	1302.498
1.03825	0.55578	1.03825	909.8113	945.5409
1.05946	0.44327	1.05946	981.6971	1042.638
1.01329	0.8447	1.01329	6462.695	6529.375
-1.06026	0.33184	0.94317	4306.337	4058.072
-1.09981	0.72158	0.90925	225.4145	201.8723
1.08368	0.13339	1.08368	1989.556	2154.868
-1.04276	0.58386	0.959	666.7283	640.8075
-1.10517	0.40821	0.90484	661.8732	598.282

-1.02868	0.68447	0.97212	1193.727	1160.841
-1.07079	0.74391	0.93389	279.4092	259.2746
-1.06867	0.59151	0.93575	1139.752	1080.597
-1.09509	0.36061	0.91317	3664.021	3255.171
-1.87635	0.00027	0.53295	757.2622	413.1609
3.06422	0	3.06422	1165.689	3562.527
-1.02284	0.73817	0.97767	3428.709	3352.092
1.25732	0.08417	1.25732	455.4789	563.7357
1.04836	0.6752	1.04836	446.0189	466.8804
1.02125	0.84021	1.02125	388.7591	397.3858
-1.11449	0.17297	0.89727	1882.272	1684.752
1.03519	0.57526	1.03519	1147.031	1187.512
-1.04519	0.50041	0.95676	4545.703	4361.458
-1.06135	0.70536	0.9422	482.8811	450.6582
-1.10258	0.58211	0.90696	234.2718	214.1187
1.02786	0.7009	1.02786	1757.86	1810.497
-1.00473	0.9454	0.99529	1131.422	1123.447
-1.42523	0.00077	0.70164	843.9266	597.9145
-1.02443	0.72808	0.97615	2332.74	2283.084
-1.22139	0.10838	0.81874	5260.093	4166.629
-1.04329	0.77276	0.95851	300.5269	288.0538
1.01468	0.88631	1.01468	644.2491	656.017
-1.02567	0.87817	0.97497	298.757	291.9703
-1.38777	0.0016	0.72058	1362.989	986.6186
1.09015	0.76741	1.09015	132.6401	142.8748
1.41523	1.73E-08	1.41523	1298.375	1838.608
-1.07753	0.38516	0.92804	999.0316	926.6907
-1.04813	0.54793	0.95408	1080.683	1035.856
-1.05127	0.60194	0.95123	1889.726	1812.254
-1.17955	0.03645	0.84778	7844.284	6513.337
1.08456	0.70642	1.08456	200.4926	214.7542
1.18914	0.0016	1.18914	1818.86	2159.08
1.03138	0.79031	1.03138	1040.706	1078.752
1.16191	0.00476	1.16191	1272.044	1477.694
1.03391	0.67881	1.03391	1870.111	1926.996
-1.13412	0.17157	0.88174	1056.186	938.9066
-1.017	0.972	0.98329	110.9853	110.94
-1.0656	0.55267	0.93844	2590.988	2391.809
1.08656	0.50764	1.08656	486.1797	520.982
-1.06335	0.52188	0.94042	3025.264	2814.071
1.2566	0.18111	1.2566	5482.826	7136.883
-1.12881	0.86307	0.88589	81.55113	72.75285
-1.67584	0.00005	0.59671	748.3334	452.6364
1.06741	0.38133	1.06741	615.5703	658.6727
-1.03536	0.58536	0.96585	2340.143	2248.797
-1.05314	0.38272	0.94954	2315.365	2191.93
-1.00709	0.94366	0.99296	485.9343	483.5134
-1.04617	0.85143	0.95587	266.6743	249.8069
-1.08757	0.86694	0.91948	121.5691	107.3819
-1.29602	0.0164	0.77159	3730.924	2818.378
1.10238	0.21779	1.10238	733.8456	806.368
1.26139	0.00005	1.26139	4091.116	5138.746

1.02844	0.72935	1.02844	856.3518	876.4633
-1.02006	0.81533	0.98033	691.5526	676.744
1.03371	0.67518	1.03371	4121.565	4364.125
-1.38474	0.0001	0.72216	4399.756	3122.898
-1.10317	0.94879	0.90648	26.99413	25.29676
-1.29387	2.98E-06	0.77287	1259.743	974.9869
-1.02047	0.82693	0.97994	515.9431	503.6484
1.09514	0.38855	1.09514	1366.451	1493.255
-1.27644	0.01864	0.78343	849.5437	671.6348
1.04238	0.46787	1.04238	1981.586	2062.774
-1.05994	0.33314	0.94345	2506.834	2387.854
-1.08897	0.62724	0.9183	441.8751	411.5317
1.02805	0.83508	1.02805	263.4138	271.4424
-1.50288	0.00031	0.66539	4204.071	2694.559
-1.14902	0.1993	0.8703	685.4157	602.6978
-1.58277	2.93E-15	0.6318	1572.857	993.5656
-1.02704	0.76469	0.97367	2865.478	2799.037
1.00193	0.98761	1.00193	489.7864	488.8339
1.02025	0.86623	1.02025	437.6149	445.2131
-1.07154	0.21837	0.93323	5742.453	5317.958
1.00586	0.93489	1.00586	2462.129	2477.502
1.26133	0.00058	1.26133	2479.187	3145.095
-1.0884	0.37708	0.91878	642.8193	586.6013
-1.04408	0.63918	0.95778	666.4611	641.7125
1.15571	0.4127	1.15571	277.1527	326.725
-1.20687	0.11092	0.82859	14858.78	11640.1
1.06389	0.20889	1.06389	3078.884	3280.834
-1.12019	0.20451	0.8927	1007.255	895.8942
-1.08554	0.66154	0.9212	249.8556	229.5801
-1.0255	0.80483	0.97513	1086.075	1060.144
-1.0994	0.03718	0.90959	4894.026	4445.585
-1.07449	0.7976	0.93067	222.1054	200.8628
1.03732	0.52544	1.03732	1672.894	1735.713
1.33745	0.00391	1.33745	30079.21	38954.06
1.00745	0.94764	1.00745	579.2126	580.6143
1.07342	0.62143	1.07342	284.8251	304.1952
1.17404	0.51494	1.17404	231.4757	258.5102
-1.3742	0.299	0.7277	208.9636	151.6963
-1.19125	0.03644	0.83945	3659.564	3108.041
1.29278	0.07376	1.29278	370.6041	473.1698
1.2999	0.00004	1.2999	903.3252	1174.178
-1.41263	3.00E-08	0.7079	2407.041	1696.177
1.1802	0.03966	1.1802	1925.708	2285.737
-1.13318	0.02682	0.88248	1985.767	1755.61
-1.22229	0.12887	0.81814	2761.856	2198.74
1.10754	0.43588	1.10754	333.2053	369.7144
1.04856	0.51782	1.04856	987.4979	1032.964
1.1349	0.05007	1.1349	1176.18	1331.218
-1.01504	0.81994	0.98518	2331.366	2294.13
-1.45815	2.31E-15	0.6858	52525.19	35914.75
1.00878	0.91135	1.00878	651.1939	655.3311
-1.09598	0.47927	0.91243	1056.931	980.4601

-1.03102	0.9135	0.96991	222.2949	224.9201
-1.01825	0.74783	0.98208	1467.634	1443.954
1.05181	0.61241	1.05181	902.797	953.8142
1.05164	0.74785	1.05164	254.6648	269.9052
-1.04222	0.38949	0.95949	1859.382	1783.86
1.01784	0.70829	1.01784	3078.109	3145.911
1.04504	0.43619	1.04504	1889.533	1978.694
1.05709	0.44621	1.05709	3990.923	4167.855
-1.0529	0.88421	0.94976	143.3238	137.0906
1.14048	0.17757	1.14048	659.296	757.1516
1.15313	0.00992	1.15313	3894	4459.783
1.65383	1.02E-07	1.65383	1094.658	1813.94
-1.13083	0.02666	0.88431	2847.672	2519.652
-1.0807	0.44634	0.92533	1006.671	939.8051
-1.01702	0.96699	0.98327	130.7718	130.1135
-1.00945	0.90827	0.99064	9336.846	9439.715
-1.03229	0.75889	0.96872	478.348	463.0042
1.05551	0.52416	1.05551	1474.177	1565.377
-1.21314	0.00892	0.82431	5700.337	4633.393
-1.04087	0.53866	0.96074	1307.424	1261.592
1.02629	0.79978	1.02629	635.0896	646.2933
1.39439	0.00009	1.39439	2816.393	3957.185
-1.18756	0.56962	0.84206	198.304	174.2997
1.13766	0.37277	1.13766	429.5502	478.889
1.02771	0.7423	1.02771	1267.222	1300.308
1.06714	0.72783	1.06714	290.6986	310.6205
-1.01334	0.81398	0.98683	2006.838	1976.378
1.18441	0.0457	1.18441	1667.656	1985.753
1.05696	0.45874	1.05696	1486.074	1569.769
-1.02036	0.95802	0.98004	136.7592	134.9879
-1.09252	0.2368	0.91532	2521.311	2277.933
-1.07132	0.47851	0.93342	630.5162	590.6464
-1.18781	0.10872	0.84189	801.385	680.5649
-1.29956	0.00901	0.76949	2088.102	1583.086
1.21102	0.03658	1.21102	1882.048	2292.905
1.09549	0.58946	1.09549	548.3433	592.1788
1.07007	0.17566	1.07007	1787.587	1913.509
-1.02992	0.57672	0.97095	1106.763	1074.503
1.09023	0.35471	1.09023	813.7367	881.0051
-1.0762	0.56864	0.9292	480.6065	449.3295
-1.28101	0.00001	0.78064	2789	2174.665
1.10665	0.35376	1.10665	468.238	515.3466
-1.00496	0.92725	0.99506	4389.078	4370.237
1.16814	0.21922	1.16814	864.636	1018.166
1.27204	0.04828	1.27204	428.3778	551.0472
-1.10637	0.11719	0.90386	1606.521	1453.315
1.0694	0.52493	1.0694	656.5324	706.2307
-1.08015	0.15473	0.9258	3958.499	3641.582
-1.06198	0.93393	0.94163	75.09068	70.24095
1.16822	0.02148	1.16822	1813.92	2123.698
-2.42098	1.19E-24	0.41306	4012.533	1636.299
1.05535	0.49786	1.05535	827.5709	869.2899

-1.40467	0.4262	0.71191	134.2298	100.6671
1.59172	0.00346	1.59172	394.9504	614.7452
-1.04032	0.65238	0.96125	890.5333	862.2678
-1.0095	0.87125	0.99059	1883.313	1865.709
-1.24337	0.04233	0.80427	1749.291	1402.22
-1.00598	0.94511	0.99405	948.0072	936.432
-1.04226	0.70936	0.95945	476.6034	457.7449
1.08386	0.39544	1.08386	6049.406	6624.651
1.00771	0.98572	1.00771	123.6481	124.5794
-1.25599	0.00043	0.79619	4652.59	3663.863
-1.2308	0.50838	0.81248	181.5241	154.1935
1.11221	0.17858	1.11221	3050.142	3376.395
-1.03333	0.46734	0.96775	5134.886	4978.762
1.04068	0.59519	1.04068	954.7984	996.579
1.00681	0.9142	1.00681	1075.506	1084.011
1.00717	0.94882	1.00717	675.7295	686.7288
-1.03826	0.83928	0.96315	327.9309	318.1147
-1.49601	0.00086	0.66845	111821.7	77757.67
1.02998	0.75163	1.02998	3849.633	3997.438
-1.06398	0.37652	0.93986	1569.834	1472.882
-1.04946	0.50067	0.95287	3002.221	2859.261
-1.07784	0.52535	0.92778	493.9274	462.1402
1.29856	0.00025	1.29856	680.9782	881.46
-1.0072	0.92895	0.99285	1126.728	1115.304
1.12805	0.29044	1.12805	376.9602	425.2962
-1.04506	0.32316	0.95688	3826.854	3663.341
-1.06418	0.80165	0.93969	215.2492	201.2552
1.02676	0.85009	1.02676	326.6693	333.7083
-1.06833	0.69022	0.93604	331.7886	310.6355
-1.0051	0.93601	0.99493	916.9955	913.4806
1.25783	0.15359	1.25783	354.8766	435.9789
-1.05842	0.63903	0.94481	289.0071	273.0114
-1.42885	0.00161	0.69986	1744.188	1210.115
1.09735	0.46005	1.09735	401.7877	442.2009
1.0188	0.71645	1.0188	3715.804	3777.897
-1.45765	0.00296	0.68604	2396.088	1604.497
-1.08894	0.06242	0.91833	5110.506	4702.065
-1.00291	0.96647	0.9971	3551.527	3579.886
-1.15516	0.03782	0.86568	1254.397	1086.143
-1.05239	0.46769	0.95022	17741.67	17132.18
-1.18425	0.09029	0.84442	1378.584	1181.373
-1.57905	4.47E-08	0.63329	923.2238	586.9146
1.00058	0.99237	1.00058	1254.204	1256.271
1.08462	0.34389	1.08462	3327.899	3544.097
-1.18916	0.09225	0.84093	1119.004	953.8007
-1.17032	0.73927	0.85447	124.6056	107.3744
-1.0228	0.90159	0.97771	258.2231	255.7878
1.05689	0.60654	1.05689	399.8823	421.465
1.40897	0.01379	1.40897	293.0602	416.1062
1.03969	0.34331	1.03969	11858.68	12331.66
1.10091	0.8566	1.10091	80.60899	93.02657
-1.00252	0.98386	0.99749	1053.531	1059.641

-1.12687	0.37768	0.88741	2177.229	1881.501
-1.09603	0.32648	0.91238	876.9164	806.6266
1.04588	0.62524	1.04588	541.3106	567.4053
1.31127	0.00048	1.31127	4522.862	5998.349
1.14557	0.05917	1.14557	1457.558	1671.974
-1.00754	0.93872	0.99251	2317.452	2263.382
-1.07708	0.22324	0.92844	1279.61	1189.201
1.0642	0.19516	1.0642	10571.8	11243.35
1.09589	0.60401	1.09589	279.5494	302.6724
-1.22886	0.06434	0.81376	742.8032	611.4529
-1.15082	0.29315	0.86895	423.1711	369.5188
1.18772	0.26869	1.18772	259.8754	306.8354
-1.04075	0.90027	0.96084	189.1545	180.642
1.11138	0.62673	1.11138	221.2603	246.3023
-1.06778	0.37343	0.93653	1260.123	1186.09
-1.00236	0.974	0.99764	904.9336	905.9991
-1.02175	0.91981	0.97872	240.7503	234.0244
1.0289	0.72484	1.0289	1280.599	1320.937
1.4699	0.00004	1.4699	3383.821	5103.167
-1.48748	0.00105	0.67228	1255.804	850.3232
-1.46111	0.00001	0.68441	1416.272	969.4114
1.00883	0.95129	1.00883	329.8356	332.6964
-1.13652	0.40433	0.87988	501.1138	439.0942
-1.03698	0.68545	0.96434	5611.99	5346.531
1.21849	0.14589	1.21849	1010.735	1221.19
-1.19968	0.01587	0.83356	1260.473	1050.716
1.07424	0.70417	1.07424	230.9278	247.1091
1.02809	0.73863	1.02809	581.3498	599.2871
-1.35921	0.00002	0.73572	19623	14234.62
1.01874	0.88568	1.01874	829.231	856.0804
1.02659	0.7061	1.02659	1359.055	1394.884
-1.00037	0.99763	0.99963	378.861	378.655
-1.02946	0.76382	0.97138	1367.762	1330.506
1.35345	0.02511	1.35345	380.2629	507.1269
-1.12668	0.21162	0.88757	2964.923	2596.888
-1.01244	0.86042	0.98772	5382.784	5331.747
1.24144	0.02575	1.24144	436.1004	539.024
-2.81824	1.07E-16	0.35483	5459.537	1864.086
1.03526	0.64501	1.03526	10440.32	10606.97
1.12488	0.31462	1.12488	2867.289	3330.613
-1.03918	0.53917	0.9623	7419.221	7055.669
-1.01034	0.86268	0.98977	1382.905	1367.028
1.11813	0.2497	1.11813	2952.707	3365.193
-1.45326	0.00428	0.68811	3402.666	2293.875
1.50967	0.00159	1.50967	3528.198	5399.015
1.03134	0.947	1.03134	118.741	126.3956
1	1	1	23.9736	21.67505
1.18902	0.33621	1.18902	296.5718	343.9116
1.01107	0.941	1.01107	679.0986	686.8913
1.22656	0.01422	1.22656	837.6011	1024.09
1.1281	0.32759	1.1281	689.7379	767.4567
-1.26265	0.16104	0.79198	404.7072	328.3956

-1.30507	0.02432	0.76624	825.4244	639.5857
-1.06194	0.49441	0.94167	773.4656	727.3816
1.02024	0.66593	1.02024	2250.418	2295.221
-1.09404	0.27318	0.91404	10379.16	9249.35
-1.33208	4.86E-11	0.75071	4672.094	3508.223
-1.10241	0.76665	0.90711	169.3361	152.4211
1.22256	0.13098	1.22256	354.1407	428.0546
1.18918	0.22749	1.18918	263.8825	312.0621
1.01215	0.87496	1.01215	723.5446	732.398
1.18834	0.16773	1.18834	313.1996	372.8023
1.01857	0.94705	1.01857	158.9186	161.0685
1.00038	0.99888	1.00038	207.5534	209.0826
-1.02063	0.89482	0.97979	511.225	498.0025
1.05104	0.39318	1.05104	3481.456	3661.897
1.0398	0.65851	1.0398	589.8748	611.1748
-1.07531	0.60492	0.92996	526.7767	488.085
1.16781	0.01267	1.16781	1530.286	1784.173
1.00635	0.92153	1.00635	1606.484	1617.974
1.22305	0.02283	1.22305	487.0213	595.2773
-1.02482	0.77289	0.97578	661.3119	644.1357
1.00908	0.94173	1.00908	607.0719	604.335
1.06488	0.76044	1.06488	250.279	271.1791
1.15285	0.29806	1.15285	265.1052	307.0273
1.07218	0.66773	1.07218	316.2518	335.73
-1.14809	0.29193	0.87101	741.2023	647.2271
1.1039	0.20622	1.1039	1440.814	1598.081
-1.01985	0.73563	0.98054	134947.7	133652.7
1.31454	0.00005	1.31454	16410.43	21326.2
-1.07183	0.20452	0.93298	1084.879	1011.036
1.08544	0.16996	1.08544	5587.555	6030.17
-1.03185	0.79751	0.96914	482.4746	462.15
1.20741	0.39402	1.20741	216.9009	255.6909
1.017	0.80018	1.017	718.0454	730.9152
1.10029	0.22397	1.10029	1209.257	1333.156
-1.11892	0.65781	0.89372	247.9405	225.0524
1.0384	0.55761	1.0384	3152.314	3293.083
1.02292	0.69635	1.02292	2583.261	2643.142
-1.26712	0.03859	0.78919	273770.9	216056.8
-1.01113	0.94214	0.98899	252.4073	250.9243
-1.02621	0.78864	0.97445	934.9939	907.8843
1.04814	0.63693	1.04814	1051.552	1099.753
-1.10616	0.62924	0.90403	315.9593	282.4934
1.78836	0.00713	1.78836	647.7831	1130.33
1.09509	0.15361	1.09509	1616.437	1770.438
-1.00653	0.96987	0.99351	351.9395	350.4114
-1.10595	0.35898	0.9042	1163.03	1055.295
-1.03641	0.61829	0.96487	693.6235	669.0208
1.00765	0.93212	1.00765	781.7461	792.5287
1.02496	0.63227	1.02496	1519.895	1557.698
1.05912	0.37524	1.05912	1377.088	1459.583
-1.30026	1.30E-06	0.76908	8283.01	6340.112
-1.33424	0.62964	0.74949	109.4148	79.48923

-2.41194	4.33E-11	0.4146	1929.236	784.2183
1.05431	0.50038	1.05431	4426.487	4613.902
1.03106	0.7249	1.03106	473.2427	488.3146
-1.05154	0.7032	0.95099	10749.35	9782.064
-1.04103	0.36007	0.96059	2746.777	2638.599
1.02829	0.70632	1.02829	784.5719	808.6669
1.09836	0.82168	1.09836	92.20356	101.2581
-1.18842	0.03551	0.84145	860.1715	721.8078
-1.05855	0.50251	0.94469	3786.612	3543.345
-1.41881	0.00256	0.70482	429773.9	302912.4
-1.67985	3.03E-09	0.59529	3535.83	2079.487
-1.29956	0.05149	0.76949	514.0304	401.6931
-1.97091	4.07E-08	0.50738	24402.05	12381.12
1.12635	0.09163	1.12635	776.3673	873.4907
1.0103	0.93662	1.0103	426.9523	435.3811
1.24348	2.00E-07	1.24348	7029.36	8743.948
-1.00662	0.95092	0.99342	5643.435	5487.141
-1.0396	0.38033	0.96191	4309.333	4146.417
-1.00012	0.99791	0.99988	1997.11	1997.245
-1.05431	0.75417	0.94849	426.9412	402.9355
1.03191	0.796	1.03191	481.921	494.6266
-1.06058	0.72996	0.94288	533.22	485.3833
1.17375	0.02715	1.17375	1010.841	1182.4
-1.14096	0.14882	0.87646	624.2071	549.9444
1.06117	0.78016	1.06117	184.4909	195.0691
-1.12251	0.17642	0.89086	1957.227	1730.09
1.28969	0.00928	1.28969	857.3532	1100.448
-1.08098	0.41301	0.92509	794.9663	741.2712
1.20933	0.01663	1.20933	1337.025	1621.333
1.13341	0.25584	1.13341	836.7843	942.3156
-1.1263	0.59355	0.88786	172.0463	153.7829
1.54456	8.77E-08	1.54456	11727.95	18616.2
-1.0258	0.96721	0.97485	88.23026	85.71463
-1.02575	0.71129	0.9749	864.4533	845.0093
1.04021	0.65089	1.04021	5900.26	6193.186
-1.12906	0.14985	0.88569	27145.62	24409.91
-1.0312	0.66037	0.96975	4876.209	4784.372
1.50396	6.56E-11	1.50396	1764.337	2642.574
-1.19723	0.77031	0.83526	94.88253	82.59471
1.11292	0.14883	1.11292	1060.879	1181.693
1.0943	0.39088	1.0943	11940.4	12866.69
1.00913	0.83097	1.00913	4169.1	4206.145
1.0299	0.62436	1.0299	1857.777	1912.712
-1.00506	0.91137	0.99497	7326.846	7298.42
-1.10181	0.23809	0.9076	4451.077	3966.926
1.00994	0.86775	1.00994	2128.066	2155.98
1.01626	0.80228	1.01626	2371.028	2393.06
-1.06552	0.54301	0.93851	2487.358	2294.71
-1.12075	0.49514	0.89226	417.0158	375.0364
1.69213	1.59E-06	1.69213	4369.518	7581.467
1.70808	2.41E-07	1.70808	4143.735	6907.233
1.00754	0.90528	1.00754	2848.031	2863.958

-1.03612	0.70563	0.96514	560.064	540.5381
-1.06159	0.46729	0.94198	882.6273	834.4125
-1.56723	1.01E-10	0.63807	6170.114	3894.847
1.14774	0.78138	1.14774	89.97694	109.8131
1.24448	0.00001	1.24448	1569.344	1952.812
-1.01451	0.91265	0.98569	365.2761	356.9388
1.19109	0.08738	1.19109	602.7638	723.7347
-1.00389	0.93249	0.99612	2644.183	2633.393
-1.12835	0.28748	0.88625	713.2608	639.9099
1.00762	0.90512	1.00762	944.3837	950.1294
-1.00315	0.99148	0.99686	177.8113	188.0369
1.23076	0.00122	1.23076	1595.147	1959.186
-1.18229	0.17581	0.84581	749.3641	642.7936
1.00403	0.95889	1.00403	1912.443	1921.724
-1.01524	0.84548	0.98499	716.4934	708.3267
1.11906	0.48688	1.11906	261.54	293.0784
1.13823	0.06095	1.13823	3593.145	4134.07
1.0362	0.72726	1.0362	623.5568	642.7097
1.21641	0.00035	1.21641	1723.059	2097.589
1.10487	0.147	1.10487	3685.519	4033.995
1.0107	0.94138	1.0107	336.9334	338.5328
-1.03178	0.68109	0.9692	697.686	674.9789
-1.04355	0.80892	0.95827	301.8227	294.8716
-1.86058	2.72E-06	0.53747	1475.213	788.6331
-1.09193	0.42787	0.91581	605.5198	560.3189
-1.12995	0.03939	0.88499	12986.42	11592.08
-1.06171	0.60052	0.94188	1191.437	1125.3
-1.02281	0.69214	0.9777	1522.276	1490.834
1.11786	0.08001	1.11786	3477.405	3933.275
1.04328	0.96913	1.04328	39.7505	36.731
-1.117	0.3637	0.89525	791.9678	718.4749
1.07187	0.67745	1.07187	259.0465	277.4073
-1.4914	0.00688	0.67051	2196.613	1465.898
-1.00624	0.93613	0.9938	3185.405	3172.691
1.11373	0.11967	1.11373	708.3291	789.78
1.05756	0.64596	1.05756	692.3655	742.7063
-1.94859	0	0.51319	22659.96	11620.3
1.07	0.38621	1.07	14423.85	15106.91
1.02326	0.84422	1.02326	820.1106	827.1283
-1.00731	0.89189	0.99274	2914.967	2899.245
1.05811	0.40174	1.05811	1776.185	1876.075
-1.08658	0.65997	0.92032	352.1449	320.8601
1.04752	0.47028	1.04752	1236.019	1292.279
-1.13591	0.2312	0.88035	111922.7	101912.8
1.10312	0.40645	1.10312	2489.423	2677.06
1.0817	0.82985	1.0817	140.2771	164.368
-1.03693	0.88929	0.96438	247.1928	235.3472
-1.02607	0.59933	0.97459	1309.477	1275.647
1.00091	0.98701	1.00091	3975.34	3970.207
1.02233	0.77324	1.02233	1151.522	1176.197
1.01533	0.81586	1.01533	1461.982	1482.277
1.0106	0.92312	1.0106	4947.01	5138.01

1.27712	0.07829	1.27712	396.3626	499.1301
-1.14058	0.29933	0.87675	11742.78	10503.19
1.02202	0.82448	1.02202	642.1759	660.3545
1.03438	0.72771	1.03438	713.3383	741.4836
-1.42019	5.94E-08	0.70413	1043.316	734.4026
1.08288	0.11028	1.08288	1776.985	1924.115
1.03023	0.62127	1.03023	1268.313	1305.686
1.00214	0.98421	1.00214	393.606	394.8481
1.05948	0.24334	1.05948	4902.626	5180.875
-1.02685	0.74117	0.97385	694.7924	678.7455
1.01883	0.90498	1.01883	384.8195	400.8054
1.08488	0.57743	1.08488	309.953	334.5649
-1.12253	0.10129	0.89084	2944.993	2625.897
1.0727	0.39721	1.0727	4610.395	4853.308
1.07398	0.21817	1.07398	1176.848	1263.944
-1.0564	0.83838	0.94661	254.0392	227.5523
1.04071	0.58138	1.04071	4015.05	4190.065
-1.03972	0.78934	0.9618	389.0867	374.4551
1.00208	0.98678	1.00208	338.1152	340.9402
1.0225	0.9723	1.0225	82.17401	86.64405
1.04624	0.62563	1.04624	496.2973	517.6307
-1.09848	0.58773	0.91035	417.753	382.5636
1.04947	0.44197	1.04947	840.9874	884.0842
1.02243	0.66435	1.02243	2381.492	2425.595
-1.00753	0.98696	0.99253	119.532	120.1048
-1.00264	0.98461	0.99737	354.5169	353.5169
-1.15821	0.25972	0.8634	9408.32	7716.504
-1.40676	0.00068	0.71085	1214.061	867.9121
-1.10995	0.49697	0.90094	538.1995	479.6373
-1.00462	0.97847	0.9954	260.484	260.5848
-1.62446	9.17E-07	0.61559	8490.571	5076.274
1.10067	0.02737	1.10067	3210.6	3534.417
1.03993	0.61594	1.03993	2348.296	2431.918
-1.13925	0.65811	0.87777	192.4404	167.5488
1.06214	0.33602	1.06214	1122.488	1190.725
-1.01848	0.76425	0.98186	2363.013	2321.555
1.12696	0.4355	1.12696	299.3724	334.8892
1.05453	0.45797	1.05453	2277.296	2395.256
1.25562	0.03283	1.25562	795.7612	987.5022
-1.27507	0.02909	0.78427	6969.952	5242.442
-1.05161	0.67684	0.95092	396.5787	377.1122
-1.06735	0.59715	0.9369	510.9153	478.9619
1.13443	0.00399	1.13443	9179.31	10427.01
1.20604	0.01242	1.20604	1415.367	1713.177
1.06236	0.80191	1.06236	169.9815	177.9626
1.12822	0.07338	1.12822	5725.063	6501.368
-1.00162	0.98283	0.99838	707.6724	707.8063
1.0149	0.87247	1.0149	670.0602	684.2067
1.00809	0.90908	1.00809	1570.271	1579.67
-1.07207	0.87188	0.93278	136.5262	123.1933
-1.21238	0.11646	0.82482	1040.439	863.5612
1.90977	3.36E-08	1.90977	8205.187	15147.38

1.02318	0.76153	1.02318	816.0413	838.2475
1.05273	0.56842	1.05273	1510.05	1581.245
-1.06883	0.54401	0.9356	2978.356	2724.472
1.06221	0.34906	1.06221	1544.148	1641.661
1.26517	0.05301	1.26517	333.2203	422.2585
-1.07207	0.17585	0.93277	1758.282	1640.271
1.21222	0.0423	1.21222	518.5349	625.9513
-1.38971	0.09999	0.71957	694.5962	510.0577
1.0504	0.37403	1.0504	1920.307	2020.145
1.04445	0.60905	1.04445	708.924	736.5482
1.03282	0.73317	1.03282	916.5086	953.1649
-1.04039	0.53541	0.96118	732.4291	703.3005
1.07445	0.3948	1.07445	827.1597	884.9267
1.10606	0.65996	1.10606	157.7126	175.2817
1.03951	0.87627	1.03951	246.571	262.7896
1.01315	0.81037	1.01315	2160.164	2183.286
-1.06675	0.48749	0.93742	810.3913	765.7246
1.21196	0.14865	1.21196	365.2095	437.3008
-1.01536	0.78742	0.98487	1878.307	1847.037
-1.05681	0.60521	0.94624	1134.707	1081.842
-1.00226	0.97456	0.99774	713.8561	712.1018
-1.01166	0.85672	0.98848	2846.855	2816.27
1.04484	0.75966	1.04484	351.3217	371.9403
-1.27616	1.28E-08	0.7836	10058.96	7875.584
-1.08948	0.5675	0.91787	538.1793	498.4316
-1.14911	0.20566	0.87024	784.7932	690.7225
-1.04812	0.6338	0.95409	1754.188	1698.873
-2.11838	2.80E-44	0.47206	13225.92	6222.788
-1.17452	0.09467	0.85141	964.7829	824.1338
1.13152	0.63042	1.13152	193.2187	213.1729
1.20109	0.24588	1.20109	3927.882	4801.363
-1.10743	0.51207	0.90299	31356.78	26869.7
1.02501	0.80856	1.02501	453.4236	463.663
-1.04474	0.72959	0.95717	369.5668	356.2507
-1.18179	0.01648	0.84617	28979.36	24110.16
-1.09113	0.11603	0.91648	1596.003	1462.145
1.10242	0.42369	1.10242	600.6844	657.6295
1.02024	0.70084	1.02024	5098.667	5205.192
-1.05639	0.46705	0.94662	6536.79	6106.881
1.46347	1.79E-10	1.46347	32900.57	48521.64
1.02781	0.5555	1.02781	2366.445	2433.241
1.0288	0.71659	1.0288	997.8993	1022.827
1.0573	0.80363	1.0573	255.1265	272.6824
-1.11853	0.67771	0.89403	225.8257	203.7435
-1.42894	2.55E-08	0.69982	3971.333	2762.602
1.0264	0.75476	1.0264	740.2749	755.7413
-1.14859	0.62513	0.87063	206.2605	179.9033
1.02985	0.75644	1.02985	587.3134	608.7117
1.20419	0.00656	1.20419	1027.238	1235.869
-1.12901	0.21897	0.88573	779.7789	695.5812
1.0979	0.21621	1.0979	2033.392	2240.65
-1.08894	0.63388	0.91833	271.3937	251.005

-1.01916	0.71987	0.9812	2758.553	2706.503
-1.06092	0.56718	0.94258	1868.234	1773.462
1.0257	0.87479	1.0257	336.9288	339.4233
-1.06024	0.90604	0.94318	121.4836	121.0326
-1.04827	0.71495	0.95396	412.1445	397.3693
1.17349	0.01212	1.17349	1296.714	1519.146
1.06389	0.26195	1.06389	5245.376	5632.548
1.02217	0.71327	1.02217	1594.181	1628.515
1.04977	0.72672	1.04977	279.4893	293.165
-1.09689	0.19418	0.91167	1136.757	1035.774
-1.0337	0.61137	0.96739	906.0247	878.5057
1.0516	0.53937	1.0516	1087.905	1139.984
1.13337	0.00378	1.13337	5317.582	6032.989
-1.13804	0.17096	0.8787	6079.162	5185.517
-1.92084	8.36E-11	0.52061	7034.34	3534.491
-1.58183	0.01485	0.63218	362.2852	233.9016
1.09831	0.33389	1.09831	2906.159	3234.346
1.04996	0.53975	1.04996	23647.96	24518.16
1.17903	0.26863	1.17903	495.7101	585.1576
-1.03654	0.84108	0.96475	330.2042	318.5947
1.07804	0.39094	1.07804	890.699	955.7212
1.22444	0.02288	1.22444	1390.085	1710.592
-1.00765	0.89368	0.99241	1137.211	1127.519
-1.01748	0.81166	0.98282	1271.949	1248.419
-1.04508	0.70387	0.95687	1660.815	1568.738
1.00212	0.96322	1.00212	2522.07	2528.724
-1.2083	0.00017	0.82761	4671.839	3883.076
1.14807	0.09708	1.14807	1833.643	2103.122
1.03253	0.7344	1.03253	408.4605	422.548
-1.16826	0.73075	0.85597	102.8603	88.1246
1.03845	0.79209	1.03845	383.5956	404.2092
1.22679	0.00013	1.22679	7778.167	9502.463
1.01567	0.84443	1.01567	587.2752	596.0183
-1.08794	0.37711	0.91917	1510.463	1386.727
1.37666	0.00615	1.37666	1070.727	1488.943
1.17674	0.22117	1.17674	5131.6	6279.205
1.27919	0.00002	1.27919	997.6879	1276.162
-1.04891	0.65067	0.95337	400.9038	381.2455
1.18825	0.03392	1.18825	1013.745	1206.554
-1.04938	0.4587	0.95294	1370.051	1306.573
-1.01005	0.92379	0.99005	578.638	570.382
1.13035	0.37823	1.13035	800.8395	917.8078
-1.02001	0.69785	0.98038	5173.501	5058.596
1.00346	0.99139	1.00346	138.8739	139.2219
-1.14206	0.04691	0.87561	993.6121	871.2805
-1.11146	0.03345	0.89971	7230.717	6536.833
-1.02899	0.65999	0.97183	640.3315	622.5779
1.03053	0.66651	1.03053	4274.928	4405.919
-1.17084	0.68014	0.85409	131.9943	114.6829
1.0474	0.39848	1.0474	7276.52	7669.574
-1.04134	0.637	0.9603	2243.522	2162.261
1.00471	0.95717	1.00471	1227.429	1229.165

-1.04487	0.52296	0.95705	2244.043	2142.552
-1.17006	0.00846	0.85466	5933.277	5018.407
1.04362	0.61485	1.04362	2089.337	2189.624
1.00454	0.98942	1.00454	161.691	161.6953
-1.10862	0.44889	0.90202	378.8554	344.6882
1.03186	0.67922	1.03186	2966.877	3065.623
1.06176	0.59729	1.06176	348.2742	369.0032
-1.02833	0.54984	0.97245	4860.031	4735.096
1.09827	0.14199	1.09827	3333.854	3677.555
1.00573	0.95925	1.00573	651.3244	659.6227
-1.46813	0.00336	0.68114	1208.129	823.2142
-1.101	0.318	0.90826	608.2861	552.4647
-1.82262	6.41E-19	0.54866	48396.27	26887.98
1.16221	0.01961	1.16221	3726.842	4376.543
1.18836	0.53161	1.18836	177.4031	202.7926
-1.01068	0.88763	0.98943	782.2075	776.2672
1.13106	0.27131	1.13106	661.2095	741.9592
-1.03083	0.55058	0.97009	1902.196	1844.862
1.28873	0.00515	1.28873	1542.333	1971.972
-1.05513	0.726	0.94775	331.7732	311.1408
1.15048	0.32867	1.15048	389.9912	441.1011
1.12114	0.06793	1.12114	1113.117	1248.985
1.18715	0.10678	1.18715	924.0667	1099.122
-1.12891	0.39591	0.88581	443.105	391.706
-1.14231	0.01189	0.87542	17706.66	15576.61
-1.01713	0.71832	0.98316	3482.099	3424.532
1.29635	0.00296	1.29635	624.8178	807.0381
1.0711	0.5732	1.0711	527.1634	557.0132
1.02571	0.6128	1.02571	2593.711	2655.965
1.25645	0.00006	1.25645	2775.225	3474.484
1.27551	8.50E-09	1.27551	4709.565	6008.657
1.04169	0.88119	1.04169	152.3421	161.6567
-1.04503	0.77174	0.95691	481.2937	458.4808
-1.12383	0.0258	0.88981	4363.025	3869.786
-1.15384	0.58768	0.86667	222.5793	191.15
-1.16118	0.54245	0.8612	310.8632	260.7412
1.01955	0.7656	1.01955	879.0021	897.3471
1.01323	0.91306	1.01323	325.5967	330.0369
-1.03789	0.70193	0.96349	1105.423	1065.249
-1.01332	0.80304	0.98686	1406.126	1387.715
1.0264	0.94235	1.0264	109.5818	111.2074
-1.84548	1.72E-07	0.54187	6010.994	3159.01
1.09714	0.54639	1.09714	328.5444	355.1007
-1.19016	0.14694	0.84022	542.0809	460.4154
-1.09132	0.82704	0.91632	114.4814	105.072
1.2672	0.0056	1.2672	2128.738	2721.292
1.02059	0.80586	1.02059	1021.634	1035.064
-1.25982	0.01958	0.79377	452.3729	358.7759
-1.19055	0.00024	0.83995	44939.62	37888.3
1.05851	0.42305	1.05851	767.1986	810.3421
-1.00343	0.94429	0.99658	3646.065	3634.421
1.13397	0.02188	1.13397	4536.544	5112.028

1.06386	0.73809	1.06386	289.9608	301.9411
-1.00397	0.97643	0.99605	545.0359	544.5698
1.00171	0.98031	1.00171	2263.794	2269.831
1.02544	0.7679	1.02544	1084.952	1112.075
-1.0701	0.82658	0.93449	186.3526	171.5643
-1.08715	0.83198	0.91983	154.9552	137.0311
1.06473	0.40272	1.06473	1494.093	1597.133
-1.16436	0.89319	0.85884	32.67105	28.69785
1.59763	3.69E-08	1.59763	1903.692	3055.137
1.20979	0.0377	1.20979	488.101	592.2689
1.30476	0.02004	1.30476	1165.021	1529.273
1.11994	0.40539	1.11994	716.026	816.487
1.03128	0.54953	1.03128	7440.054	7676.631
1.01188	0.90713	1.01188	970.0096	987.6442
-1.0413	0.41698	0.96034	1968.25	1889.635
1.02366	0.91581	1.02366	157.2679	161.63
1.14563	0.21684	1.14563	36564.2	43037.41
1.05376	0.59973	1.05376	459.5286	485.9719
-1.36092	0.00021	0.7348	4894.145	3560.181
1.11424	0.16477	1.11424	1290.946	1440.515
-1.01097	0.92589	0.98915	551.0671	551.7959
1.12041	0.29088	1.12041	423.6943	476.6711
1.10065	0.4754	1.10065	341.8129	374.0875
-1.04301	0.71503	0.95876	571.0866	553.5695
1.11232	0.12788	1.11232	756.7853	840.7439
1.04467	0.74283	1.04467	362.0215	375.4794
-2.00147	0.01487	0.49963	519.7186	259.2362
-1.04106	0.72834	0.96056	451.9965	431.3652
1.20378	0.20474	1.20378	1322.089	1611.981
-1.14464	0.1599	0.87364	1360.277	1200.462
-1.05787	0.80836	0.9453	269.236	253.2129
1.02555	0.94494	1.02555	134.7766	132.7417
-1.06328	0.38232	0.94049	1746.886	1639.094
-1.01033	0.92794	0.98977	430.9199	427.4686
1.07763	0.29794	1.07763	1810.46	1952.112
-2.15239	1.86E-09	0.4646	846.9697	398.2056
1.0823	0.13965	1.0823	6604.803	7174.546
-1.29866	0.18644	0.77002	576.1172	434.0732
1.17087	0.14501	1.17087	845.3568	984.8294
-1.06835	0.91879	0.93602	85.54385	81.11487
1.19234	0.05325	1.19234	5921.605	6883.415
1.06809	0.52558	1.06809	579.5447	622.2036
-1.13521	0.35984	0.8809	691.5961	621.7838
-1.08308	0.62502	0.92329	1829.125	1710.588
-1.12959	0.1969	0.88527	1135.872	1015.465
-1.01636	0.77793	0.9839	6599.456	6528.972
1.01799	0.8101	1.01799	915.7525	928.8801
-1.00203	0.98768	0.99797	380.9062	380.5367
1.03642	0.73478	1.03642	562.7758	579.4061
-1.10938	0.63925	0.90141	313.1193	292.6027
-1.1609	0.28335	0.8614	407.1103	350.4136
-1.11088	0.56208	0.90019	378.3596	349.6533

-1.09427	0.45612	0.91386	2226.21	1977.436
-1.0516	0.27247	0.95094	5630.256	5347.767
1.06831	0.31205	1.06831	835.9863	893.7378
1.00508	0.98135	1.00508	258.9475	261.5728
1.11498	0.01184	1.11498	3546.027	3954.469
-1.02732	0.87554	0.97341	485.247	465.645
-1.06769	0.31461	0.9366	3683.327	3419.405
-1.45596	4.42E-11	0.68683	9434.507	6450.644
1.03742	0.701	1.03742	2136.371	2226.058
1.06394	0.90827	1.06394	93.91457	100.7929
1.16496	0.18079	1.16496	365.4072	424.2465
1.02054	0.90896	1.02054	326.1411	334.3779
1.04767	0.85529	1.04767	168.0329	178.0274
-1.00595	0.95697	0.99409	2064.513	2026.74
-1.22712	0.06649	0.81491	1228.324	1000.949
1.04927	0.46985	1.04927	1047.988	1097.905
1.06389	0.52268	1.06389	876.5427	936.9514
-1.03747	0.52289	0.96388	1696.878	1638.846
1.10646	0.06121	1.10646	3078.439	3408.656
-1.02505	0.73121	0.97556	1013.378	990.9097
-1.10529	0.59002	0.90474	313.0398	282.9269
-1.10776	0.57291	0.90272	331.1218	298.7046
1.00274	0.96443	1.00274	2704.835	2712.617
1.28018	0.00963	1.28018	1100.66	1409.734
1.19092	0.133	1.19092	918.1112	1087.181
1.09889	0.55684	1.09889	308.1619	336.9886
-1.00136	0.98274	0.99864	1819.851	1809.844
-1.01432	0.82777	0.98588	2079.559	2051.573
1.1342	0.21856	1.1342	3511.817	3882.328
1.09839	0.11122	1.09839	3858.84	4199.508
-1.06519	0.54113	0.9388	1655.446	1538.352
-1.08667	0.54084	0.92024	283.5621	261.5768
1.00923	0.84039	1.00923	2515.85	2538.868
-1.03191	0.77896	0.96908	857.8671	839.7889
1.19289	0.00508	1.19289	1143.602	1364.369
1.18769	0.00698	1.18769	1437.16	1707.424
-1.03502	0.77056	0.96617	328.9218	317.3843
1.02963	0.79595	1.02963	434.607	449.7039
1.10946	0.30031	1.10946	325.9711	361.7924
1.12842	0.12351	1.12842	652.9713	736.0321
1.00202	0.98513	1.00202	889.7388	898.5539
-1.28181	0.05308	0.78015	483.928	382.0058
1.03406	0.56514	1.03406	1224.009	1264.262
-1.08302	0.48693	0.92334	11915.41	10585.2
1.12657	0.46666	1.12657	345.0739	397.2819
-1.0491	0.40539	0.9532	1820.303	1734.095
-1.17331	0.14468	0.85229	789.3398	675.705
1.02577	0.78175	1.02577	1195.094	1217.222
1.00524	0.97484	1.00524	354.4547	363.6792
-1.04944	0.3338	0.95289	6535.274	6211.089
1.13833	0.0076	1.13833	2912.177	3320.539
1.187	0.75395	1.187	78.86105	90.31667

1.01282	0.85402	1.01282	4752.737	4761.608
1.01558	0.93575	1.01558	278.9691	283.4908
-1.57128	0.00077	0.63642	1331.695	847.6799
-1.09575	0.46056	0.91262	4349.935	3839.977
-1.00479	0.97061	0.99523	367.9245	368.7087
1.03839	0.61737	1.03839	1327.457	1381.285
1.32366	0.00253	1.32366	618.5585	815.5377
1.10517	0.25602	1.10517	1545.056	1699.348
1.09808	0.24698	1.09808	661.6209	726.8386
1.69152	3.09E-10	1.69152	1807.85	3069.572
1.07893	0.72536	1.07893	249.3496	270.1643
1.12252	0.07951	1.12252	679.1333	762.6063
-1.02044	0.86607	0.97997	462.6715	454.3167
1.13617	0.55603	1.13617	206.5442	230.5869
-1.10017	0.12918	0.90895	1039.427	943.0967
1.01817	0.79056	1.01817	919.2073	933.6068
-2.04031	0.00003	0.49012	1227.435	606.4541
-1.10732	0.86805	0.90308	95.04595	82.30943
-1.07338	0.09185	0.93164	7412.613	6901.891
-1.0262	0.68922	0.97447	785.6545	765.1248
-1.70764	2.18E-18	0.58561	6487.365	3764.641
-1.17183	0.12483	0.85337	4125.532	3561.958
-1.00026	0.99668	0.99974	1223.113	1223.697
1.02634	0.58693	1.02634	1900.014	1949.86
-1.04236	0.37545	0.95936	9135.89	8787.244
1.13917	0.01445	1.13917	4266.43	4881.448
1.10578	0.85648	1.10578	87.11351	94.83704
1.08751	0.6542	1.08751	192.7187	210.4322
-1.05794	0.48492	0.94524	910.0873	865.6409
1.10731	0.2117	1.10731	2955.184	3336.555
1.03483	0.71604	1.03483	580.87	597.917
-1.27211	0.03202	0.7861	2139.052	1644.323
-1.04475	0.92171	0.95717	102.252	97.58475
1.01032	0.94523	1.01032	373.5438	383.7184
-1.061	0.68505	0.9425	415.9016	397.7846
1.05465	0.91251	1.05465	106.6545	112.9249
-1.02045	0.85926	0.97996	683.7385	669.244
1	1	1	22.9921	22.45148
-1.04869	0.58761	0.95357	870.4055	835.9215
-1.10853	0.38821	0.9021	794.1314	724.9166
-1.00818	0.88646	0.99189	2074.678	2051.753
1.20912	0.06504	1.20912	1320.045	1605.641
-1.06202	0.65228	0.94161	497.6841	468.4996
1.01736	0.94898	1.01736	203.2959	198.8188
-1.07004	0.55131	0.93454	740.8748	699.8828
-1.10724	0.35212	0.90314	1227.072	1109.694
-1.87449	3.43E-09	0.53348	1638.656	869.5167
-1.01036	0.93332	0.98975	488.8315	490.0343
1.00255	0.96513	1.00255	3511.838	3522.476
1.10848	0.17699	1.10848	760.3167	841.2296
-1.10748	0.85257	0.90295	108.2624	94.07323
-9.5309	3.37E-11	0.10492	3470.815	315.402

-1.1209	0.1358	0.89214	655.3123	585.8782
-1.09051	0.08934	0.917	19593.06	17910.7
-1.23441	0.07717	0.8101	4865.057	3825.055
1.17493	0.04261	1.17493	1282.882	1508.961
-1.16692	0.10493	0.85696	6221.411	5225.815
-1.15245	0.51737	0.86772	244.0368	216.2723
-1.0055	0.98285	0.99453	159.846	157.2775
-1.01573	0.82034	0.98451	763.799	753.1796
1.00226	0.99885	1.00226	26.46775	24.63929
-1.08662	0.0998	0.92028	1896.513	1744.824
-1.10084	0.15292	0.9084	1562.522	1422.848
-1.13593	0.01178	0.88034	3679.296	3236.796
-1.02219	0.95083	0.9783	113.0795	111.0677
1.12631	0.32866	1.12631	3759.983	4079.724
-1.02865	0.80937	0.97215	390.66	382.33
1.01659	0.8113	1.01659	6937.531	6979.548
1.78119	8.33E-12	1.78119	1674.928	3035.4
1.15404	0.00966	1.15404	2128.004	2454.865
-1.00719	0.91106	0.99286	917.4928	910.2147
-1.19597	0.09681	0.83614	1901.792	1573.833
1.07063	0.17426	1.07063	18638.66	20043.7
1.06655	0.52631	1.06655	11778.69	12900.42
1.06862	0.31164	1.06862	1821.638	1950.62
-1.10175	0.11029	0.90765	5852.368	5273.842
1.0211	0.8261	1.0211	943.4774	967.3384
1.01646	0.77072	1.01646	3113.658	3167.598
1.04961	0.29099	1.04961	2986.092	3131.871
1.05716	0.8151	1.05716	231.027	245.0669
1.02044	0.63873	1.02044	5861.574	5981.328
-1.15994	0.3092	0.86212	577.4924	485.909
-1.03505	0.5263	0.96613	1484.768	1432.811
-1.00682	0.94695	0.99323	2023.917	1981.608
-1.10705	0.31293	0.9033	1176.869	1066.553
-1.12624	0.75918	0.88791	161.8389	149.1926
-1.04742	0.62015	0.95473	757.254	722.73
1.01281	0.82784	1.01281	4165.509	4215.022
-1.01932	0.89286	0.98104	455.8127	446.0741
-1.05866	0.27333	0.94459	3259.733	3071.995
1.01144	0.90411	1.01144	1619.892	1640.814
1.07183	0.1934	1.07183	1167.681	1252.601
-1.03297	0.83514	0.96808	313.9239	304.1136
-1.04491	0.57477	0.95702	1908.094	1821.258
1.02024	0.85364	1.02024	330.8068	337.5813
1.23169	0.84255	1.23169	31.23201	37.5248
1.07008	0.16898	1.07008	13448.54	14451.46
1.04927	0.59733	1.04927	5312.719	5469.261
-1.80633	1.86E-07	0.55361	4073.792	2300.561
-1.15099	0.27604	0.86882	945.5637	835.0936
-1.09678	0.16013	0.91176	3606.408	3278.07
1.00928	0.98157	1.00928	107.1685	108.3077
1.01485	0.84737	1.01485	605.4794	615.4067
1.14988	0.49797	1.14988	168.7914	193.7378

1.01494	0.7872	1.01494	1282.257	1301.692
-1.16949	0.43457	0.85507	230.593	197.3702
1.2003	0.60807	1.2003	139.8309	158.9445
-1.02739	0.58924	0.97334	5358.468	5211.893
-1.08083	0.37056	0.92521	6213.505	5642.022
-1.03787	0.75703	0.96351	464.8591	448.0342
1.23229	0.71631	1.23229	63.40476	78.15701
-1.01342	0.76686	0.98675	6081.793	6007.124
1.11169	0.01682	1.11169	3828.624	4259.823
1.11338	0.91925	1.11338	41.96836	52.07827
1.02064	0.85659	1.02064	449.131	456.342
1.12981	0.22776	1.12981	532.4226	605.7753
-1.04474	0.8856	0.95718	192.2535	187.6273
1.13332	0.14567	1.13332	6033.919	6781.252
1.08046	0.48502	1.08046	790.5147	861.3612
-1.17148	0.00277	0.85362	2417.877	2059.881
1.01047	0.82634	1.01047	1904.252	1924.33
1.12137	0.28026	1.12137	733.37	813.7512
1.0551	0.6504	1.0551	1737.129	1877.713
1.09522	0.35894	1.09522	389.131	425.9579
1.04477	0.83084	1.04477	352.4876	376.7036
-1.09358	0.20516	0.91443	2412.872	2219.201
1.19763	0.87478	1.19763	29.86667	30.94228
-1.035	0.82753	0.96618	257.2118	247.757
-1.13483	0.26086	0.88119	835.0703	745.3354
-1.02746	0.6941	0.97327	1201.872	1170.604
-1.17632	0.45385	0.85011	377.4335	309.3174
-1.19796	0.0013	0.83475	15124.09	12518.98
1.03684	0.56998	1.03684	2033.761	2105.687
-1.00392	0.9487	0.99609	1968.964	1957.411
-1.19908	0.00583	0.83397	19845.15	16294.2
-1.23457	0.20055	0.81	709.8253	588.7493
1.02102	0.67468	1.02102	1834.55	1873.346
1.06137	0.60307	1.06137	355.2723	376.7779
1.02678	0.7321	1.02678	2470.839	2581.316
-1.01956	0.80999	0.98082	4847.253	4674.196
1.04427	0.46959	1.04427	1790.285	1870.716
1.00621	0.94663	1.00621	2266.986	2317.732
-1.03807	0.43241	0.96333	5740.188	5541.834
1.99979	3.29E-29	1.99979	1070.518	2139.42
-1.29735	3.61E-06	0.7708	2640.176	2039.753
-1.10445	0.48337	0.90542	428.9442	391.8944
-1.02938	0.72576	0.97146	2736.533	2671.005
-1.03681	0.76059	0.9645	569.6256	551.1006
1.17657	0.01503	1.17657	714.4088	840.4089
-1.02056	0.78164	0.97985	621.7318	609.2195
-1.02763	0.95159	0.97311	122.3817	117.0638
-1.00761	0.86069	0.99245	3274.344	3249.963
-1.02594	0.63856	0.97472	1278.042	1247.651
1.07962	0.63579	1.07962	245.8185	263.7565
1.07627	0.39015	1.07627	517.566	558.1694
-1.02944	0.66218	0.9714	1992.53	1946.126

1.17758	0.1524	1.17758	563.7288	656.1601
1.01318	0.76453	1.01318	5736.166	5807.288
1.21675	0.00031	1.21675	2588.118	3148.565
1.12568	0.61897	1.12568	198.0986	224.9008
-1.00995	0.81251	0.99015	847.7338	837.2355
-1.09218	0.34466	0.9156	699.7952	642.2072
1.32694	0.00026	1.32694	2587.889	3479.14
1.12173	0.70983	1.12173	142.507	160.2427
-1.01933	0.70584	0.98104	3204.875	3144.216
-1.00033	0.99501	0.99967	1245.491	1243.839
-1.16518	0.21262	0.85823	795.1478	681.1391
-1.02062	0.72311	0.9798	2252.125	2211.504
-1.03926	0.69579	0.96222	501.0952	480.0566
1.0452	0.35538	1.0452	4124.408	4318.258
1.25962	0.10947	1.25962	1089.917	1365.48
-1.04363	0.81511	0.95819	354.6755	336.7438
-1.11684	0.14442	0.89538	3471.615	3105.112
1.08479	0.12681	1.08479	1348.994	1463.341
1.09288	0.16599	1.09288	1835.591	2013.549
1.05445	0.54887	1.05445	551.2416	583.4983
-1.05627	0.58482	0.94672	606.2518	578.6401
-1.14294	0.07695	0.87494	2903.318	2534.454
-1.0258	0.75895	0.97485	1704.508	1647.86
1.19459	0.39007	1.19459	380.0686	434.7029
1.0531	0.27563	1.0531	3001.14	3161.701
-1.08227	0.83771	0.92398	158.2017	138.7479
1.10344	0.09345	1.10344	3351.217	3710.68
-1.18551	0.28818	0.84352	610.8868	508.4903
-1.0081	0.91239	0.99197	624.0246	617.963
1.09793	0.46261	1.09793	1086.911	1196.318
-1.03542	0.68008	0.96579	6924.498	6593.238
-1.07429	0.50545	0.93084	1117.438	1044.355
-1.01049	0.94258	0.98962	490.4362	495.9423
1.00617	0.97196	1.00617	309.6366	311.1313
-1.02929	0.85311	0.97154	387.1644	377.4302
2.0398	9.73E-31	2.0398	5667.233	11461.24
-1.14014	0.12791	0.87709	1867.088	1638.969
1.12259	0.30002	1.12259	514.0828	573.675
1.15175	0.21045	1.15175	403.6196	465.936
-1.12051	0.41417	0.89245	566.1823	502.776
-1.01934	0.81977	0.98103	594.6499	584.7042
-1.07545	0.38711	0.92984	841.3064	786.9894
-1.11314	0.17751	0.89836	1434.691	1289.986
1.01074	0.91163	1.01074	1048.072	1053.793
1.32235	0.00068	1.32235	620.606	819.8221
-1.17417	0.23329	0.85167	802.9248	694.9885
-1.13519	0.12097	0.88091	2403.349	2094.252
-1.04503	0.35776	0.95691	4410.104	4211.176
-2.37935	1.85E-14	0.42028	3329.195	1353.289
-1.26321	0.12902	0.79163	349.0544	275.0481
-1.02476	0.75486	0.97584	3726.231	3605.19
1.12569	0.81274	1.12569	109.38	129.4297

1.01294	0.88706	1.01294	626.2599	636.8782
-3.28352	8.81E-10	0.30455	785.1368	247.1055
-1.02447	0.73897	0.97612	876.553	854.7795
1.27546	0.00778	1.27546	1155.117	1475.094
1.12868	0.06128	1.12868	1649.463	1856.694
-1.8813	3.63E-42	0.53155	8574.741	4551.761
1.00291	0.97105	1.00291	1605.621	1598.706
1.01147	0.92442	1.01147	595.1896	603.9635
1.02631	0.63004	1.02631	1653.048	1696.969
-1.01961	0.76131	0.98076	3012.901	2942.606
-1.12443	0.11523	0.88934	1224.625	1096.504
1.0188	0.70386	1.0188	1667.184	1697.908
1.04585	0.58942	1.04585	3197.649	3393.782
1.08375	0.63116	1.08375	274.2578	297.8759
-1.07102	0.713	0.93369	354.8275	332.6699
1.21446	0.22952	1.21446	282.3829	339.733
-1.02653	0.78797	0.97416	753.5143	731.3006
-1.04571	0.84903	0.95629	302.4538	278.9426
-1.16804	0.48837	0.85613	302.1387	251.546
1.2459	0.00193	1.2459	957.9815	1189.451
1.01094	0.88321	1.01094	2627.676	2675.747
1.0471	0.43635	1.0471	1760.403	1839.581
-1.02302	0.62451	0.9775	3879.417	3794.08
1.01848	0.88506	1.01848	347.6262	352.0251
-1.102	0.63234	0.90744	256.1231	235.5269
1.29648	5.18E-06	1.29648	4967.216	6406.058
-1.25911	0.0403	0.79421	687.5798	550.6525
-1.00097	0.99273	0.99903	2690.935	2729.968
1.11757	0.18757	1.11757	1114.914	1251.186
1.28886	0.00695	1.28886	564.486	731.313
1.2566	0.04744	1.2566	4221.614	5330.086
-1.02007	0.76633	0.98033	922.4206	905.5501
-1.05666	0.55322	0.94638	992.2725	937.4921
1.05419	0.41216	1.05419	1254.295	1319.177
-1.01315	0.86522	0.98702	1109.13	1092.191
-1.04805	0.51393	0.95416	1238.891	1182.048
1.06076	0.27823	1.06076	2969.393	3139.712
1.10044	0.81626	1.10044	99.91354	109.8077
1.00734	0.96274	1.00734	348.1193	356.9382
1.01042	0.9331	1.01042	637.911	644.906
1.15356	0.09563	1.15356	2005.752	2311.769
1.05482	0.40012	1.05482	1252.635	1321.631
1.08253	0.63083	1.08253	268.8343	292.4659
1.06214	0.43055	1.06214	7571.081	8039.011
1.01821	0.69481	1.01821	3818.855	3888.924
1.08027	0.51997	1.08027	780.9161	835.0221
-1.06234	0.17296	0.94132	11124.57	10489.25
1.12096	0.31883	1.12096	389.4788	437.3447
1.00728	0.88605	1.00728	2850.355	2868.565
1.02925	0.83114	1.02925	521.9742	538.2483
-1.08764	0.16654	0.91942	3301.92	3021.015
-1.1368	0.34304	0.87966	761.6491	681.517

1.01923	0.77562	1.01923	987.821	1008.462
-1.09554	0.26867	0.91279	899.6768	825.9854
-1.14649	0.36469	0.87223	2636.306	2291.95
-1.68887	0.03295	0.59211	324.9098	209.9479
-1.18804	0.5858	0.84172	182.7466	159.2271
1.03437	0.75525	1.03437	581.6289	600.2898
-1.16882	0.0117	0.85556	1574.971	1346.985
-1.05257	0.56953	0.95005	870.2363	828.2091
-1.05768	0.68646	0.94546	536.3157	505.8001
-1.28714	0.27414	0.77692	293.2775	237.0359
1.0073	0.98219	1.0073	104.9049	106.4556
1.12859	0.82053	1.12859	86.06299	97.16349
1.17423	0.10309	1.17423	768.1122	895.3888
-1.81922	3.03E-08	0.54969	5985.863	3156.094
1.09161	0.36345	1.09161	1826.447	1978.979
-1.02529	0.72814	0.97533	819.5851	801.1183
1.0218	0.7613	1.0218	3868.8	3920.736
1.11923	0.68939	1.11923	170.8349	186.2151
-1.17096	0.00505	0.854	8298.57	7110.887
-1.0528	0.66657	0.94985	702.4418	670.9557
-1.0744	0.11933	0.93075	3257.582	3034.552
1.08775	0.48304	1.08775	847.6238	910.6693
1.01705	0.84589	1.01705	1277.713	1294.26
-1.0899	0.73297	0.91752	239.156	219.2534
-1.14084	0.44683	0.87655	252.0152	222.5128
1.36471	2.27E-06	1.36471	1885.148	2564.094
1.0496	0.47716	1.0496	678.6456	712.7709
1.00656	0.95425	1.00656	790.4308	803.6066
-1.10854	0.46429	0.90209	571.1021	525.0779
-1.05977	0.9053	0.9436	103.6407	97.75351
-1.22836	0.07776	0.81409	864.497	709.268
-1.09275	0.28701	0.91512	605.5285	554.7003
-1.10154	0.56759	0.90782	439.4767	413.2576
1.0263	0.69348	1.0263	1500.248	1540.167
-1.0468	0.74093	0.9553	392.2675	374.944
-1.29598	0.08675	0.77162	3523.363	2579.422
1.2925	0.00166	1.2925	1482.47	1910.816
1.43984	1.30E-12	1.43984	32057.46	46452.42
-1.12127	0.55125	0.89184	305.5606	279.4759
-1.18649	0.04702	0.84283	5467.054	4515.845
-1.29702	0.00049	0.771	2516.315	1923.037
-1.11468	0.72826	0.89712	191.0174	175.6943
-1.09626	0.73105	0.91219	228.8781	206.9351
-1.06446	0.55095	0.93944	374.0566	351.2033
1.04133	0.56019	1.04133	1146.811	1194.413
1.31648	6.44E-07	1.31648	1592.159	2095.99
-1.05178	0.47939	0.95077	778.2429	740.9726
-1.02948	0.60733	0.97136	2348.112	2276.541
1.34002	0.00006	1.34002	10230.64	13988.86
-1.26979	0.00014	0.78753	2845.334	2245.977
1.00141	0.97453	1.00141	2729.475	2733.325
1.19183	0.46075	1.19183	222.8665	268.5085

-1.0386	0.82167	0.96283	354.4659	339.8986
-1.06818	0.38632	0.93617	1239.658	1164.654
-1.09286	0.87021	0.91503	89.90679	82.55081
-1.01991	0.83914	0.98048	678.2825	666.6481
1.14972	0.32438	1.14972	357.2105	407.9384
1.06721	0.79332	1.06721	204.9222	225.6179
1.01596	0.8172	1.01596	911.7332	928.9316
-1.06363	0.6928	0.94018	285.4056	270.8406
1.05374	0.60497	1.05374	935.2604	979.6212
1.01601	0.86225	1.01601	1116.419	1133.356
-1.13945	0.16879	0.87761	3504.284	3014.318
1.01554	0.8021	1.01554	1292.354	1314.484
-1.29864	3.30E-06	0.77003	7282.637	5579.275
1.05146	0.65716	1.05146	566.429	595.2067
-1.11469	0.37861	0.89711	732.4869	666.8119
-1.00543	0.95352	0.9946	2321.656	2301.745
-1.26023	0.84047	0.79351	34.83773	27.64209
-1.08005	0.36354	0.92588	1144.4	1059.916
-1.08149	0.77648	0.92465	230.4065	208.5309
-1.00497	0.93702	0.99506	1196.654	1189.608
1.05245	0.91699	1.05245	117.6155	133.2374
1.10951	0.95247	1.10951	26.77242	26.08652
1.02658	0.86628	1.02658	234.0584	241.397
-1.12877	0.46373	0.88592	489.2122	441.2978
-1.07772	0.56952	0.92788	437.2091	407.7875
-1.1712	0.17588	0.85382	791.7382	682.4445
1.15759	0.0169	1.15759	1278.354	1479.142
1.31401	0.14493	1.31401	155.4027	203.9933
1.31029	4.96E-08	1.31029	2833.838	3705.959
1.08373	0.2864	1.08373	828.1216	899.8211
1.79258	6.07E-08	1.79258	1286.004	2364.818
-1.04982	0.48456	0.95254	5451.716	5154.901
1.23359	0.09921	1.23359	482.5011	604.3228
-1.06606	0.50853	0.93804	785.5833	741.2033
1.18628	0.6229	1.18628	120.3555	146.3145
1.00851	0.93931	1.00851	503.785	508.5043
1.11191	0.21485	1.11191	8038.537	8988.312
1.84028	6.06E-08	1.84028	653.4952	1199.574
-1.20802	0.13802	0.8278	577.1439	484.8777
1.35455	9.86E-11	1.35455	3916.549	5317.516
-1.31683	0.22071	0.7594	359.045	284.9639
1.17894	0.15804	1.17894	643.0525	748.4227
-1.04651	0.56853	0.95555	4050.564	3814.155
1.12879	0.02363	1.12879	3274.747	3703.644
-1.0758	0.25942	0.92954	2154.722	2007.28
-1.33687	0.00346	0.74802	973.085	734.9218
1.25997	0.06252	1.25997	1791.545	2327.485
1.11026	0.13569	1.11026	1064.862	1182.269
-1.47364	0.00209	0.67859	2866.365	1969.584
-1.19079	0.08651	0.83978	962.9782	815.4592
-1.33585	0.00002	0.74858	1723.583	1292.977
-1.07237	0.67835	0.93251	292.4074	272.4575

1.0702	0.14255	1.0702	2181.551	2335.552
-1.15017	0.39406	0.86944	475.8493	428.6515
1.0281	0.78499	1.0281	1089.772	1115.233
1.006	0.88735	1.006	5993.214	6028.92
1.03809	0.67589	1.03809	803.2324	829.9266
-1.11301	0.13893	0.89847	2677.613	2409.287
-1.07789	0.51635	0.92774	4428.094	3948.298
-1.03651	0.58505	0.96478	802.9421	775.3409
-1.03413	0.54584	0.96699	2859.199	2767.219
1.07596	0.40368	1.07596	15080.91	16475.69
1.00111	0.98764	1.00111	1138.728	1141.801
1.22857	0.32395	1.22857	548.7401	680.8425
1.31887	0.00225	1.31887	2720.329	3530.965
-1.10322	0.08506	0.90643	2772.299	2519.503
1.04362	0.67666	1.04362	624.1154	654.7452
1.19379	0.07855	1.19379	409.0619	489.1669
-1.11962	0.46956	0.89316	545.2711	479.0845
-1.1124	0.6862	0.89896	207.8183	193.5932
1.00167	0.99424	1.00167	214.1974	214.385
1.25854	0.01706	1.25854	12623.07	16367.28
-1.03127	0.76728	0.96968	491.0624	479.2031
1.0672	0.41532	1.0672	2161.351	2302.36
-1.03983	0.54671	0.9617	1404.194	1353.344
1.07197	0.82877	1.07197	170.1631	185.7451
1.33124	0.02751	1.33124	7699.49	9982.501
1.03903	0.6383	1.03903	841.8361	869.0465
1.01647	0.73097	1.01647	10885.35	11010.32
-1.02727	0.63312	0.97346	2395.276	2331.829
1.02489	0.78272	1.02489	619.3683	635.441
1.04361	0.47585	1.04361	5252.295	5448.39
1.02619	0.8521	1.02619	284.1933	291.9891
1.07227	0.43257	1.07227	538.6874	575.759
-1.09766	0.05621	0.91103	5599.541	5115.92
1.01193	0.89925	1.01193	1083.531	1095.045
1.09338	0.47746	1.09338	742.3861	801.3578
1.2637	0.00742	1.2637	1285.618	1635.88
-1.18046	0.59723	0.84713	203.8386	165.544
-1.0323	0.91801	0.96871	189.3722	180.6768
-1.024	0.81564	0.97656	864.8102	852.3191
1.02006	0.82618	1.02006	2046.498	2089.142
1.12534	0.89928	1.12534	55.02242	57.85512
1.42094	0.01307	1.42094	25832.14	38469.27
-1.31867	0.00009	0.75834	13135.73	9749.149
-1.04673	0.53178	0.95536	2739.844	2594.44
1.12683	0.72839	1.12683	135.3338	151.5687
1.30525	0.0156	1.30525	890.1257	1158
-1.11802	0.54573	0.89444	381.6748	337.5676
1.0387	0.7689	1.0387	655.224	669.4683
-1.12336	0.2889	0.89019	639.1047	568.9364
-1.01298	0.82782	0.98719	3694.431	3621.712
-1.04308	0.7694	0.9587	613.0551	590.9694
-1.17388	0.00096	0.85188	6466.799	5487.871

-1.24077	0.11631	0.80595	1191.883	963.0316
-1.17394	0.05085	0.85183	36955.8	30797.93
-1.22546	0.76982	0.81602	87.38207	70.29899
-1.11429	0.06382	0.89743	4569.133	4110.034
-1.0418	0.7526	0.95987	444.2823	427.2286
1.09282	0.60359	1.09282	292.2834	325.2863
1.02643	0.72935	1.02643	1296.313	1321.518
1.09191	0.51148	1.09191	350.9404	384.2268
-1.03727	0.58365	0.96407	973.0147	935.7092
-1.15663	0.07614	0.86458	932.0713	809.2883
1.04299	0.69344	1.04299	459.138	475.6445
1.19571	0.05923	1.19571	512.7728	609.3235
1.11553	0.18584	1.11553	10413.03	11821.82
-1.0026	0.98227	0.99741	375.1935	375.0415
1.37893	0.32858	1.37893	174.5045	236.7377
-1.12382	0.28936	0.88982	7725.917	6710.245
-1.0061	0.90289	0.99393	1724.826	1713.761
-1.02737	0.58224	0.97336	5249.557	5111.136
1.2073	0.1069	1.2073	642.3142	785.7122
-1.10504	0.21111	0.90495	1060.65	962.6279
1.01285	0.93273	1.01285	298.7541	300.232
-1.06019	0.73238	0.94322	350.1859	329.8049
-1.16124	0.34007	0.86115	975.7726	856.0521
-1.11418	0.93252	0.89752	31.76275	25.00731
1.43034	0.15659	1.43034	191.974	263.6775
1.11755	0.09572	1.11755	2314.479	2590.508
1.02338	0.75697	1.02338	1029.781	1057.078
-1.11914	0.26623	0.89355	1654.264	1474.106
-1.04206	0.76976	0.95964	291.991	281.9378
1.04325	0.42684	1.04325	1417.785	1478.932
1.16714	0.08722	1.16714	14627.87	16762.38
1.32862	0.73891	1.32862	39.18216	50.11783
-1.3581	0.01825	0.73632	1083.292	802.8623
-1.12427	0.66084	0.88947	225.872	198.3481
-1.73443	3.23E-08	0.57656	12470.02	6895.995
1.03179	0.82905	1.03179	395.405	401.3475
1.14746	0.00357	1.14746	1561.991	1792.32
-1.01934	0.78161	0.98103	1469.328	1442.922
1.53975	0.00161	1.53975	763.5857	1170.689
-1.31677	0.39924	0.75943	156.5674	119.12
1.36519	0.02115	1.36519	289.4869	391.8459
-1.04576	0.52903	0.95625	1101.167	1054.783
-1.04135	0.85462	0.96029	289.2137	282.5078
1.67218	3.95E-10	1.67218	709.5479	1187.886
1.01562	0.82257	1.01562	842.9869	857.2871
1.13595	0.10264	1.13595	768.7355	870.9979
-1.48612	2.12E-10	0.67289	1339.229	902.4908
1.029	0.95648	1.029	101.6496	105.262
-1.05719	0.3367	0.94591	1476.898	1398.173
-1.05968	0.43424	0.94368	1227.544	1162.089
1.05956	0.97425	1.05956	26.28331	24.57663
1.02546	0.63396	1.02546	2687.419	2746.728

1.06887	0.40822	1.06887	618.168	663.1737
1.19962	0.35122	1.19962	171.485	205.1388
1.08573	0.27456	1.08573	998.2148	1086.022
1.01826	0.74956	1.01826	3303.479	3360.514
-1.16286	0.18456	0.85995	1072.734	937.35
-1.01591	0.84765	0.98434	1865.505	1871.494
1.53307	7.58E-07	1.53307	2630.693	4083.186
-1.05222	0.70853	0.95037	415.1766	396.542
1.03259	0.90444	1.03259	204.9358	210.7033
1.05384	0.60971	1.05384	621.4261	650.6828
-1.12812	0.05369	0.88643	2840.085	2502.718
1.0915	0.32184	1.0915	1322.535	1445.332
1.44593	1.42E-07	1.44593	1296.064	1870.13
1.05707	0.59428	1.05707	595.8513	634.3162
1.12742	0.27745	1.12742	6890.711	7968.712
-1.29022	0.00057	0.77506	9235.87	7045.86
-1.26868	0.00094	0.78822	14454.87	11279.41
-1.04219	0.88844	0.95952	191.5319	182.2253
-1.04692	0.88718	0.95518	156.2845	148.5377
1.22848	0.06618	1.22848	4158.754	4917.039
-1.0448	0.67896	0.95712	1437.019	1376.133
1.0379	0.58067	1.0379	4108.732	4264.354
1.00867	0.87728	1.00867	2258.408	2277.531
1.14081	0.03924	1.14081	13387.15	15499.32
-1.06307	0.89144	0.94067	125.408	118.52
-1.01077	0.87569	0.98934	2142.139	2115.011
1.00405	0.93855	1.00405	2970.118	2979.152
1.1516	0.01461	1.1516	1189.292	1369.349
-1.03132	0.58154	0.96963	1932.241	1867.954
1.00293	0.9881	1.00293	180.9222	180.6324
-1.06014	0.45251	0.94327	1990.415	1871.068
-1.06108	0.32316	0.94243	1803.091	1699.307
-1.17832	0.25191	0.84867	798.9387	678.2034
-1.23642	0.29379	0.80879	209.8119	169.1529
-1.00159	0.9728	0.99842	2300.421	2296.584
-1.00101	0.99691	0.99899	185.7294	183.4429
1.04599	0.55467	1.04599	908.1011	948.7385
-1.04844	0.96614	0.9538	29.4675	28.48491
-1.00956	0.90617	0.99053	1003.835	996.5599
-1.07653	0.41567	0.92891	566.4127	527.9767
-1.01145	0.8574	0.98867	989.6079	980.682
1.22035	0.66001	1.22035	85.07777	106.5335
1.32075	0.00364	1.32075	559.7769	733.9469
-1.05133	0.58933	0.95118	1243.03	1198.882
1.07974	0.64433	1.07974	324.7407	345.6752
1.01018	0.89319	1.01018	5198.846	5261.88
-1.08663	0.20823	0.92028	3237.777	2964.045
1.05817	0.36944	1.05817	1071.136	1133.08
1.02857	0.81913	1.02857	2657.231	2681.803
-1.03148	0.57565	0.96948	2918.915	2833.532
-1.49021	0.14676	0.67105	281.352	201.4189
-1.03991	0.64194	0.96162	1183.769	1140.912

-1.1156	0.30168	0.89638	1036.672	933.5012
-1.27032	3.08E-07	0.7872	4605.381	3618.824
1.01865	0.71427	1.01865	2433.071	2481.446
-1.04679	0.87941	0.9553	178.1742	170.2859
1.16556	0.02292	1.16556	1608.232	1867.859
1.15216	0.30747	1.15216	560.9775	632.5476
1.26179	0.00011	1.26179	862.1232	1088.523
1.04311	0.52646	1.04311	1574.255	1642.792
1.13572	0.08374	1.13572	4756.113	5501.793
1.47364	0.02289	1.47364	1724.146	2534.854
-2.02431	4.04E-08	0.49399	1582.758	778.8697
-1.01085	0.92637	0.98926	2635.188	2554.62
-1.01	0.88896	0.9901	1990.449	1962.957
-1.06449	0.29074	0.93942	2702.977	2545.585
-1.18193	0.22015	0.84608	456.5503	391.5164
-1.13997	0.01935	0.87722	6864.642	6066.164
1.01934	0.80039	1.01934	1487.293	1508.327
-1.11239	0.0986	0.89897	1248.17	1121.926
1.00692	0.93402	1.00692	440.6194	443.7412
1.59148	0.00002	1.59148	1863.666	2966.87
-1.03993	0.62563	0.9616	8232.995	7725.198
-1.19241	0.28071	0.83864	627.3757	534.3381
1.17871	0.71397	1.17871	98.76056	113.2047
1.03047	0.65889	1.03047	3244.424	3274.123
-1.19314	0.00123	0.83812	1609.481	1349.205
-1.04427	0.46965	0.9576	1195.372	1145.573
-1.17912	0.16724	0.84809	5664.975	4609.023
-1.07007	0.49581	0.93452	640.4883	601.702
-1.18465	0.28351	0.84413	561.3545	468.5873
-1.01652	0.81229	0.98375	1428.148	1405.471
1.00292	0.9883	1.00292	248.2126	244.8234
-1.01431	0.96106	0.98589	198.5059	198.106
-1.1827	0.04474	0.84552	2432.112	2033.669
-1.11271	0.62166	0.8987	312.3337	286.3175
-1.12737	0.49305	0.88702	437.3851	381.7192
1.01335	0.89315	1.01335	2943.204	2949.645
1.02294	0.754	1.02294	799.3314	815.9522
1.03064	0.8684	1.03064	234.5801	242.5394
-1.1733	0.70288	0.85229	145.1666	129.2095
1.02657	0.88899	1.02657	306.1188	315.7397
-1.07194	0.34477	0.93289	2160.96	2004.351
-1.02693	0.7918	0.97378	629.8088	618.1711
-1.18029	0.06095	0.84725	775.4574	654.1857
1.06476	0.36226	1.06476	4563.343	4786.52
-1.0387	0.69256	0.96274	1060.712	1033.66
-1.075	0.21747	0.93023	4223.231	3889.408
1.42199	2.44E-08	1.42199	926.2276	1316.761
1.09436	0.1933	1.09436	1481.24	1617.434
-1.10769	0.04066	0.90278	2035.512	1838.422
-1.11798	0.68309	0.89447	220.742	201.6514
1.67301	1.24E-13	1.67301	10367.92	17206
1.15148	0.81296	1.15148	89.77517	110.0345

-1.11355	0.83882	0.89802	108.5484	96.83559
1.1216	0.13714	1.1216	1250.859	1402.543
1.09722	0.21605	1.09722	4304.306	4741.944
1.22346	0.18867	1.22346	251.5602	305.8974
-1.08606	0.41399	0.92076	14212.84	13374.32
-1.11995	0.64783	0.8929	246.5585	218.267
-1.12924	0.40262	0.88555	438.4695	387.3405
1.06518	0.51332	1.06518	916.2457	973.8087
-1.17883	0.19058	0.8483	389.2691	330.4776
-1.05363	0.83957	0.9491	248.5962	246.2868
-1.07954	0.60615	0.92632	368.981	341.4359
1.02467	0.74346	1.02467	1135.103	1160.518
1.10526	0.56052	1.10526	337.5267	363.7882
1.07457	0.34498	1.07457	937.7064	1005.424
1.04401	0.57007	1.04401	1319.436	1381.161
1.06251	0.69704	1.06251	439.1017	455.3634
-1.02449	0.84752	0.97609	290.0844	283.2484
1.08221	0.26608	1.08221	4762.684	5177.951
-1.03131	0.62197	0.96964	4509.575	4377.406
-1.14583	0.73746	0.87273	144.786	125.6911
1.06328	0.55161	1.06328	531.9278	565.7316
1	1	1	23.65742	20.15515
1.01115	0.92065	1.01115	631.6345	631.7695
-1.03933	0.68776	0.96216	747.842	714.2115
-1.01907	0.89884	0.98129	409.8787	403.5118
-1.02144	0.76311	0.97901	710.7585	694.9022
1.12274	0.23994	1.12274	5879.182	6476.02
-1.00171	0.97107	0.99829	1800.271	1795.649
-1.8227	6.89E-07	0.54864	918.5823	509.5256
-1.14549	0.88592	0.87299	59.37294	52.4949
-1.01195	0.87766	0.98819	1393.82	1373.193
1.02757	0.55398	1.02757	4009.952	4121.573
1.17075	0.00361	1.17075	1178.616	1379.831
-2.09211	1.54E-13	0.47799	4932.656	2286.434
1.01167	0.87284	1.01167	1556.908	1573.664
-1.1163	0.34673	0.89582	2021.144	1771.319
1.07563	0.31467	1.07563	1027.6	1102.786
-1.01489	0.80618	0.98533	2567.823	2516.045
1.0847	0.60039	1.0847	406.626	431.7229
-1.11781	0.64289	0.89461	267.4114	235.7029
3.01556	8.91E-26	3.01556	547.3122	1652.146
-1.0306	0.82295	0.97031	451.7727	433.5288
-1.05165	0.46537	0.95089	2452.839	2332.623
-1.13905	0.45637	0.87793	2617.252	2236.753
1.28929	0.01319	1.28929	1351.61	1756.48
-1.3788	0.01088	0.72527	1087.301	796.1893
-1.06397	0.26927	0.93988	8269.311	7699.4
-1.05813	0.72422	0.94506	362.2578	347.9327
1.14348	0.70936	1.14348	125.4427	143.5642
-1.01438	0.95931	0.98582	146.017	145.4356
1.04295	0.83261	1.04295	247.0793	258.0952
-1.01891	0.85581	0.98144	511.2759	505.2176

-1.04252	0.59308	0.95921	3248.845	3086.257
-1.05057	0.27363	0.95186	2289.529	2179.433
-1.07371	0.60471	0.93135	328.066	307.8706
-1.03265	0.84435	0.96838	269.1702	261.5815
1.38016	0.00836	1.38016	424.5414	579.1953
-1.03447	0.65846	0.96668	780.691	753.2877
-1.0549	0.72465	0.94796	301.2505	285.5962
1.10589	0.10466	1.10589	25653.06	28126.8
-1.10374	0.0917	0.90601	8942.408	8050.426
-1.09286	0.48913	0.91503	529.3011	491.6364
1.12711	0.33118	1.12711	567.6809	649.298
1.0872	0.22378	1.0872	886.4214	963.1322
-1.11134	0.26989	0.89981	3409.708	3015.932
-1.01973	0.721	0.98065	1222.521	1198.158
1.00531	0.94314	1.00531	5157.676	5272.478
1.10918	0.63988	1.10918	232.3089	259.1534
-1.00339	0.95967	0.99663	2067.971	2067.141
-1.08405	0.34877	0.92247	1922.647	1766.048
1.02322	0.81611	1.02322	11913.34	11859.79
1.05972	0.36638	1.05972	1507.6	1594.472
-1.04144	0.47532	0.96021	1238.706	1189.417
1.07635	0.33309	1.07635	1499.792	1621.555
1.16998	0.60431	1.16998	179.8854	212.4912
-1.07066	0.27572	0.934	1404.552	1312.821
1.08487	0.65213	1.08487	241.7459	258.8546
-1.05725	0.59594	0.94585	519.109	488.9252
1.36436	7.74E-10	1.36436	14606.63	20063.89
1.04291	0.42605	1.04291	6402.39	6689.46
-1.0526	0.63615	0.95003	628.2111	595.1204
1.20115	0.00228	1.20115	1137.542	1368.604
1.49835	0.00004	1.49835	447.0815	665.9213
1.06962	0.62364	1.06962	409.6616	443.2405
-1.04234	0.82039	0.95938	369.489	350.8307
-1.10183	0.43896	0.90758	1129.922	1036.411
-1.09656	0.28995	0.91194	845.7175	774.8779
-1.00718	0.97648	0.99287	211.4718	210.0382
1.18506	0.02971	1.18506	9933.809	11828.92
1.03107	0.74712	1.03107	2649.219	2780.085
-1.04916	0.90673	0.95314	149.9332	144.325
-1.04056	0.40789	0.96102	2711.408	2604.267
1.29924	0.0057	1.29924	495.8594	645.2345
1.03616	0.88918	1.03616	269.121	268.3457
-1.07596	0.51584	0.92941	10073.31	9621.273
-1.1742	0.06379	0.85164	1423.104	1208.331
1.09118	0.14595	1.09118	3718.396	4053.676
-1.02231	0.67634	0.97818	2430.807	2374.782
-1.06793	0.57011	0.93639	4206.915	3939.324
-1.03668	0.42715	0.96462	2422.521	2336.833
1.27364	0.00036	1.27364	6289.893	7997.84
1.00191	0.96985	1.00191	5452.449	5463.559
-1.29746	0.02607	0.77074	1186.747	921.7116
1.12879	0.17053	1.12879	705.5919	791.0927

1.24572	0.00315	1.24572	1157.314	1444.031
1.00795	0.88973	1.00795	1882.388	1899.141
-1.04843	0.52271	0.95381	1332.9	1273.407
1.00441	0.96096	1.00441	505.0972	507.6883
1.16731	0.22185	1.16731	780.4547	897.1606
1.04363	0.52842	1.04363	663.3259	692.467
-1.10039	0.27	0.90877	1465.288	1344.081
1.06042	0.28422	1.06042	5463.954	5754.622
-1.09493	0.47543	0.9133	577.2623	526.8898
-1.01387	0.76299	0.98632	4470.424	4411.77
1.03997	0.65501	1.03997	459.9703	477.9258
1.10213	0.30774	1.10213	4543.537	5056.502
-1.03008	0.5502	0.97079	1913.136	1856.621
1.08102	0.62236	1.08102	463.8493	497.4456
-1.0339	0.5148	0.96721	6107.462	5923.281
-1.39395	0.10172	0.71739	400.2267	286.2523
1.29256	0.00019	1.29256	2381.769	3055.704
1.00684	0.95649	1.00684	399.9168	403.0355
-1.08113	0.33776	0.92496	1334.425	1235.876
1.00091	0.99232	1.00091	962.2367	961.122
-1.02134	0.80816	0.9791	521.2039	510.5214
1.09524	0.34111	1.09524	1163.831	1279.387
1.00817	0.90142	1.00817	3984.629	4024.787
-1.00836	0.97628	0.99171	175.7878	173.5719
1.0198	0.98643	1.0198	35.39487	37.08725
1.06633	0.24403	1.06633	1425.166	1520.182
-1.00255	0.97051	0.99746	1424.574	1423.373
1.00176	0.96782	1.00176	3392.11	3397.272
1.01072	0.91705	1.01072	584.5215	588.5066
-1.33506	0.00247	0.74903	877.6758	662.6437
-1.02885	0.65584	0.97196	1465.363	1422.213
1.03772	0.8685	1.03772	192.2559	200.7942
1.04501	0.44315	1.04501	2235.874	2331.513
-1.01862	0.91303	0.98172	206.0069	201.8372
1.04945	0.32934	1.04945	6247.041	6526.668
1.08042	0.57961	1.08042	700.1737	770.4229
-1.04817	0.54135	0.95404	3762.94	3538.874
1.50194	3.35E-16	1.50194	13563.88	20439.88
-1.04505	0.84779	0.95689	267.0355	258.9305
-1.32674	0.0013	0.75373	2507.165	1869.449
-1.08267	0.59795	0.92364	435.161	409.5922
-1.06189	0.64766	0.94171	373.1654	351.8384
1.00568	0.89756	1.00568	3458.052	3477.046
1.10563	0.27109	1.10563	652.4316	721.1707
1.05905	0.40014	1.05905	1786.509	1898.585
-1.1984	0.10833	0.83444	874.1452	738.0109
-1.06993	0.61182	0.93464	359.3149	335.9521
-1.21298	0.24256	0.82442	2625.582	2066.693
-1.24596	0.0036	0.80259	3256.512	2574.986
-1.0691	0.69385	0.93536	309.905	288.9966
-1.00658	0.91755	0.99347	807.4121	801.7236
1.42589	1.38E-08	1.42589	1553.751	2210.468

-1.11111	0.19689	0.9	1291.13	1160.648
-1.06572	0.52169	0.93833	1382.694	1301.179
1.07864	0.54079	1.07864	668.1927	710.2748
1.24815	0.02084	1.24815	999.84	1241.738
-1.0526	0.93561	0.95003	91.25074	83.81724
-1.0681	0.3341	0.93624	2401.244	2250.921
1.04859	0.34556	1.04859	16593.58	17503.6
1.02608	0.75923	1.02608	2554.023	2603.918
1.05535	0.73345	1.05535	349.2811	375.5759
-1.02973	0.69798	0.97113	1921.348	1882.056
-1.38041	0.01774	0.72442	1162.573	845.1393
-2.26177	9.60E-12	0.44213	8143.819	3377.416
-1.2183	0.00004	0.82081	5427.869	4441.318
-1.04967	0.46156	0.95268	2310.733	2190.543
-1.03544	0.65881	0.96577	990.9016	950.5994
1.04063	0.76317	1.04063	393.4382	404.8253
-1.04384	0.53335	0.958	875.0775	838.3004
-1.04459	0.7501	0.95731	494.025	480.5147
1.10237	0.29564	1.10237	1082.438	1194.694
1.19938	0.00344	1.19938	1282.426	1537.841
1.01204	0.83021	1.01204	1734.429	1754.276
-1.11277	0.1057	0.89866	1450.178	1301.468
-1.09849	0.68759	0.91034	225.1068	210.4015
-1.02392	0.78528	0.97664	888.5665	868.7611
1.11253	0.40939	1.11253	508.1387	556.2734
-1.28618	0.00631	0.7775	1151.77	898.6972
-1.00871	0.9598	0.99137	252.2384	250.0285
-1.14035	0.24809	0.87692	488.604	432.2053
-1.05174	0.4255	0.95081	2848.954	2685.46
1.03517	0.67416	1.03517	765.2486	789.6949
-1.29303	0.00558	0.77338	1717.02	1334.896
-1.03461	0.76279	0.96655	3433.191	3229.727
1.03101	0.75332	1.03101	507.8903	526.0211
-1.10197	0.15887	0.90747	2615.743	2359.079
1.28527	0.00004	1.28527	5411.546	7001.874
-1.07755	0.54249	0.92803	1335.437	1210.465
1.00397	0.97961	1.00397	345.9073	352.3331
-1.04481	0.55412	0.95711	759.8235	724.5233
1.03888	0.58167	1.03888	1364.545	1417.175
-1.05617	0.44549	0.94682	3305.743	3166.689
-1.06499	0.86643	0.93898	152.5222	140.8865
-1.00245	0.96373	0.99756	3899.824	3889.127
-1.0538	0.79924	0.94894	242.361	230.4723
1.0385	0.73321	1.0385	540.3109	555.4844
-1.20623	0.01384	0.82903	10669.92	8978.735
-1.01961	0.98369	0.98076	56.23662	52.63195
-1.05821	0.61291	0.94499	353.9992	334.8284
-1.10608	0.73657	0.90409	197.6902	179.1736
1.00821	0.86188	1.00821	4732.433	4772.241
-1.00279	0.98865	0.99721	311.2977	300.9128
-1.02833	0.72237	0.97245	583.083	567.6635
1.22818	0.88455	1.22818	31.54799	35.47379

-1.04976	0.62228	0.9526	486.0028	463.2429
-1.02456	0.77783	0.97602	1350.483	1322.562
-1.04519	0.79945	0.95676	261.8687	250.5191
1.00404	0.9324	1.00404	2703.446	2711.97
-1.06151	0.84678	0.94205	199.3203	194.5345
-1.21223	0.08147	0.82493	1232.811	1023.292
-1.00055	0.99024	0.99945	3365.835	3366.034
-1.04014	0.72086	0.96141	1685.354	1623.838
1.01658	0.92611	1.01658	355.8749	363.9168
-1.05014	0.47589	0.95226	1134.37	1079.533
-1.05827	0.70223	0.94494	307.6986	288.9829
-1.16455	0.40784	0.8587	314.1148	266.9248
-1.04892	0.87648	0.95337	183.0106	175.7311
-1.15216	0.12557	0.86794	2765.291	2403.444
1.0832	0.17714	1.0832	36816.42	39701.62
1.13986	0.13832	1.13986	155185.1	173794.4
-1.14741	0.09703	0.87153	1906.47	1662.231
1.49958	2.57E-09	1.49958	972.9708	1452.62
1.00161	0.9832	1.00161	1425.708	1431.053
1.34812	2.62E-09	1.34812	5121.243	6936.472
-1.69788	4.91E-08	0.58897	3622.968	2095.098
-1.04409	0.67695	0.95777	840.2466	797.2366
1.44896	0.00015	1.44896	665.7034	958.5925
-1.03764	0.54434	0.96373	1538.034	1489.665
-1.63228	0.00562	0.61264	1006.872	626.5336
-1.09198	0.66805	0.91577	349.5836	313.5999
1.00858	0.87928	1.00858	2702.612	2740.294
1.27566	0.1045	1.27566	362.295	457.6845
-1.00407	0.95766	0.99594	4471.697	4404.904
1.91141	2.14E-20	1.91141	2126.154	4094.067
-1.07778	0.41093	0.92783	1935.462	1839.251
-1.1365	0.45927	0.87989	368.0806	324.1859
-1.15326	0.52418	0.8671	296.152	253.6655
1.06654	0.80659	1.06654	158.3359	168.7589
1.14975	0.09934	1.14975	2719.335	3211.731
-1.0214	0.85203	0.97905	554.5124	542.6428
1.04776	0.27588	1.04776	203925	213493.1
1.18407	0.47386	1.18407	225.2181	255.9711
-1.00737	0.8686	0.99268	2805.348	2785.361
-1.11118	0.7329	0.89994	197.8655	181.8958
-1.04346	0.62447	0.95835	797.9535	761.7103
1.01559	0.87595	1.01559	411.2999	418.3897
-1.01848	0.79582	0.98185	986.9181	971.0646
-1.0633	0.75707	0.94047	668.0611	654.396
1.35143	0.00205	1.35143	835.5487	1126.378
1.09346	0.66628	1.09346	224.8556	249.0939
1.13014	0.20927	1.13014	1999.138	2224.076
1.08706	0.59276	1.08706	318.3499	345.3589
-1.0934	0.19775	0.91457	8330.478	7509.608
1.10237	0.14997	1.10237	2614.336	2887.034
-1.35424	0.01484	0.73842	1184.618	880.3456
1.06407	0.25435	1.06407	2510.016	2674.904

-1.19804	0.15908	0.8347	2396.456	1996.599
1.05708	0.54332	1.05708	380.1165	401.6675
-1.05259	0.26571	0.95004	4305.019	4096.68
1.0364	0.6497	1.0364	930.763	960.4747
1.22633	0.00017	1.22633	1721.537	2109.951
1.03432	0.79907	1.03432	283.1892	293.885
-1.09828	0.60747	0.91052	361.0715	330.7261
1.09237	0.34594	1.09237	8572.678	9390.869
1.10897	0.0168	1.10897	3971.441	4405.44
-1.01581	0.86526	0.98444	934.3666	928.5158
-1.04917	0.55062	0.95314	918.7069	879.8126
1.08793	0.16653	1.08793	3337.17	3633.826
-1.03388	0.65887	0.96723	1329.751	1290.164
1.01766	0.96144	1.01766	140.8792	150.7814
1.07031	0.48767	1.07031	375.5804	401.3432
-1.02775	0.81135	0.973	338.956	329.2419
-1.00909	0.91646	0.99099	1613.547	1609.759
-1.31902	3.35E-06	0.75814	3582.623	2709.391
1.03693	0.70629	1.03693	592.5841	610.8933
-1.11953	0.57	0.89323	332.8319	294.0692
1.02663	0.80351	1.02663	491.0355	501.6545
1.24485	0.6153	1.24485	109.6877	138.9725
-1.1454	0.37276	0.87306	710.7894	635.6338
-1.21216	0.00189	0.82497	1807.251	1487.681
-1.01374	0.8674	0.98645	548.3238	541.5169
-1.10185	0.08234	0.90757	5192.608	4677.973
-1.13268	0.5399	0.88286	370.7672	338.4059
1.16307	0.71677	1.16307	124.909	149.1841
-1.24913	0.44214	0.80056	245.4917	193.3461
-1.0425	0.73093	0.95923	393.2295	377.2904
1.07103	0.53788	1.07103	1423.798	1545.602
1.01569	0.80327	1.01569	2394.406	2425.785
1.06894	0.44427	1.06894	4093.594	4282.711
1.00769	0.86209	1.00769	3817.302	3845.728
1.21387	0.00896	1.21387	1134.958	1379.023
1.06632	0.64839	1.06632	360.1577	379.4683
1.01913	0.85744	1.01913	2261.998	2269.873
1.4315	2.03E-11	1.4315	1038.115	1485.942
-1.07827	0.21154	0.92741	10936.54	10166.6
1.16361	0.24247	1.16361	627.5221	718.6165
1.10817	0.32997	1.10817	545.6348	599.31
1.04092	0.64257	1.04092	854.3978	886.1928
-1.03688	0.62197	0.96443	1000.927	968.0333
-1.17042	0.29263	0.8544	292.0505	251.148
1.13508	0.2659	1.13508	499.9763	561.5219
-1.34093	2.92E-11	0.74575	6123.509	4562.913
1.18505	0.46136	1.18505	252.1653	300.1795
1.15931	0.34568	1.15931	494.1809	557.4316
1.04718	0.45568	1.04718	979.7699	1024.24
1.00679	0.94638	1.00679	573.6653	578.8605
-1.11549	0.05341	0.89647	1301.58	1166.882
1.09924	0.25956	1.09924	3210.337	3503.916

-1.02871	0.78981	0.97209	1033.697	1006.089
-1.25107	0.00005	0.79932	1255.964	1004.274
-1.25946	0.00026	0.79399	1875.074	1485.941
1.00873	0.86774	1.00873	2719.839	2735.531
1.10428	0.36275	1.10428	676.1658	753.6705
-1.01184	0.94039	0.9883	287.3071	282.9434
1.0521	0.42027	1.0521	2337.929	2455.12
-1.01134	0.91204	0.98879	1409.211	1386.636
1.01846	0.8714	1.01846	1166.523	1175.801
1.16437	0.10777	1.16437	592.4754	694.2333
1.05762	0.51814	1.05762	930.6732	979.3644
-1.61966	1.33E-06	0.61741	10935.49	6520.266
-1.14838	0.22838	0.87079	585.232	509.9028
1.03765	0.84448	1.03765	330.6454	329.6411
1.50331	0.00002	1.50331	1612.033	2437.766
-1.13092	0.19599	0.88424	899.1666	802.4438
-1.04826	0.69305	0.95396	502.2246	484.625
-1.01947	0.86219	0.9809	574.8799	569.7665
-1.06992	0.65322	0.93465	426.4716	397.242
-1.08202	0.25867	0.9242	1438.634	1320.955
-1.13935	0.01176	0.87769	6094.465	5366.952
1.03052	0.70606	1.03052	651.9684	673.3098
-1.11783	0.02955	0.89459	1393.551	1246.616
-1.06581	0.7462	0.93825	368.5562	345.5165
1.08788	0.42477	1.08788	379.826	413.973
-1.27853	0.00211	0.78215	2341.011	1851.962
1.04941	0.87184	1.04941	184.251	190.6018
1.27382	0.05587	1.27382	913.0519	1154.463
-1.33427	0.22511	0.74947	285.6126	215.6116
1.1692	0.0426	1.1692	1124.86	1314.147
1.21241	0.08047	1.21241	1714.425	2098.202
-1.21926	0.12167	0.82017	1276.912	1047.227
-1.065	0.39559	0.93897	2685.79	2491.972
-1.03713	0.8344	0.9642	514.6065	486.3041
-1.08664	0.21071	0.92026	1163.935	1066.635
1.16044	0.50981	1.16044	166.3731	190.8355
-1.00549	0.94126	0.99454	2306.935	2317.265
-1.02699	0.55446	0.97372	942.5286	911.7424
-1.01461	0.90905	0.9856	468.0641	461.6936
1.13964	0.03374	1.13964	1765.66	2017.542
1.03723	0.63975	1.03723	538.813	558.2785
1.02409	0.81969	1.02409	1274.243	1296.633
-1.05824	0.71782	0.94497	325.9426	308.3154
1.06577	0.85377	1.06577	153.9342	166.8066
-1.12857	0.06365	0.88608	1339.378	1192.275
-1.21238	0.00161	0.82483	2361.296	1950.114
1.0931	0.57757	1.0931	253.1372	274.301
-1.16037	0.22705	0.86179	469.006	405.4811
1.03506	0.56004	1.03506	2700.734	2802.529
-1.21447	0.00553	0.82341	1267.957	1044.308
-1.07872	0.14017	0.92703	1482.724	1375.842
-1.11229	0.22347	0.89905	12641.86	11101.86

1.19635	0.13593	1.19635	7064.703	8155.309
1.02191	0.78451	1.02191	1272.192	1299.544
1.09621	0.60439	1.09621	200.5668	220.5699
1.26976	0.00001	1.26976	1980.233	2510.086
-1.11976	0.0475	0.89305	1502.807	1343.355
-1.05363	0.76427	0.9491	344.6667	326.0333
-1.07705	0.63595	0.92847	332.5769	308.8348
-1.0893	0.54976	0.91802	336.4139	311.8807
1.02621	0.5461	1.02621	11822.43	12134.27
1.18558	0.02047	1.18558	5827.084	6824.069
1	1	1	26.1209	20.62965
1.05583	0.38005	1.05583	1289.882	1361.888
1.25639	0.34578	1.25639	1634.908	2178.448
-1.1421	0.10957	0.87558	3038.992	2620.373
1.07682	0.45369	1.07682	469.6295	508.5682
1.02933	0.68513	1.02933	798.5133	822.7426
1.00783	0.85944	1.00783	2539.572	2559.337
1.01003	0.85492	1.01003	2630.567	2657.511
-1.02182	0.86303	0.97865	4447.347	4202.045
1.08548	0.55261	1.08548	310.1163	336.6095
1.29203	0.02883	1.29203	1625.808	2107.669
1.00687	0.87766	1.00687	1176.241	1187.824
1.06882	0.45603	1.06882	2418.089	2554.871
-1.19264	0.79706	0.83848	86.88086	75.73865
-1.06531	0.37437	0.93869	2646.388	2495.283
-1.02573	0.71554	0.97492	2526.081	2482.146
1.22295	0.60621	1.22295	122.793	142.5674
-1.01056	0.90977	0.98955	1021.994	1013.501
1.21287	0.13741	1.21287	13134.64	16435.03
-1.08467	0.32368	0.92194	800.568	740.5171
1.06199	0.7153	1.06199	265.7851	281.8502
1.02911	0.88898	1.02911	199.2683	203.9677
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1.00167	0.97813	1.00167	1899.692	1901.369
-1.01063	0.87899	0.98948	891.6231	884.8215
1.03933	0.65203	1.03933	615.0104	637.6234
-1.52833	0.01409	0.65431	598.3098	394.5776
-1.11929	0.19906	0.89342	15231.98	13249.24
-1.02796	0.66971	0.9728	10006.59	9831.595
1.04005	0.5662	1.04005	727.4558	756.0751
-1.01031	0.92045	0.98979	541.7982	539.91
-1.00854	0.94989	0.99153	322.9857	322.6041
-1.06844	0.51796	0.93594	1765.391	1656.571
1.20624	0.10844	1.20624	426.6825	510.3224
1.34254	5.79E-06	1.34254	2012.228	2716.387
1.01124	0.9013	1.01124	679.585	690.4451
1.02866	0.87294	1.02866	202.4635	208.765
-1.11833	0.17846	0.89419	2803.671	2497.481
1.4634	0.00162	1.4634	520.2606	771.1063
1.19735	0.01555	1.19735	1316.84	1579.21
1.05285	0.5987	1.05285	480.3756	505.8477

-1.01177	0.88387	0.98836	554.2335	547.4959
1.06876	0.44168	1.06876	841.6633	896.4459
-1.13923	0.22972	0.87779	887.0533	786.4061
-1.13404	0.11596	0.8818	1140.146	1001.303
-1.02097	0.80667	0.97946	1851.648	1802.35
-1.00783	0.88995	0.99223	2139.154	2122.836
1.01226	0.92908	1.01226	307.5394	310.1839
-1.06674	0.22677	0.93743	1476.672	1384.199
1.05646	0.91138	1.05646	105.2947	112.6596
-1.25038	0.04714	0.79976	5511.886	4270.928
-1.23738	0.45391	0.80816	193.5977	156.7233
-1.24623	0.00573	0.80242	3828.331	3046.613
1.07417	0.26036	1.07417	8736.573	9409.596
-1.10954	0.17294	0.90128	8378.882	7441.354
1.52753	4.00E-10	1.52753	1490.113	2283.906
1.02393	0.65251	1.02393	1484.375	1520.526
-1.20615	0.02675	0.82909	2463.145	2044.144
-1.09118	0.13725	0.91644	876.0823	803.6502
-1.04512	0.7444	0.95683	541.9126	516.7116
1.04242	0.78444	1.04242	314.381	331.6384
1.10587	0.21055	1.10587	1145.955	1271.263
-1.00945	0.86131	0.99064	2524.375	2499.568
-1.07726	0.85164	0.92828	129.4023	125.9093
1.17843	0.13404	1.17843	12292.21	14818.79
-1.78203	7.47E-10	0.56116	3953.171	2195.55
-1.28291	0.00341	0.77948	1322.338	1031.078
-1.0773	0.82244	0.92825	125.2401	116.1907
-1.03446	0.86479	0.96669	317.5587	309.9909
1.17363	0.17517	1.17363	410.3415	477.2874
-1.00114	0.99477	0.99886	238.6211	238.4963
-1.0733	0.36478	0.9317	1757.009	1639.128
-1.00157	0.98968	0.99843	543.6167	543.2535
-1.0229	0.71279	0.97762	1805.126	1762.158
-1.06334	0.53984	0.94043	1041.855	982.9105
1.07333	0.54624	1.07333	367.2473	394.3386
1.2128	0.3648	1.2128	222.6838	269.6103
-1.24015	0.05916	0.80636	3644.693	2872.501
-1.05644	0.48264	0.94658	572.5148	542.5336
-1.02739	0.84723	0.97334	526.6007	514.9636
1.02947	0.62189	1.02947	1225.991	1263.065
1.19265	0.33775	1.19265	2642.312	3087.118
1.03382	0.86411	1.03382	248.6928	262.0406
1.0059	0.97913	1.0059	195.7052	199.2351
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-1.06319	0.17271	0.94056	6330.298	5945.462
-2.73256	3.04E-08	0.36596	784.2589	293.8421
-1.09742	0.65229	0.91122	321.9053	289.9541
1.03064	0.62011	1.03064	1835.724	1892.649
-1.14115	0.14843	0.87631	20152.27	17114.32
-1.35751	0.00223	0.73664	7919.287	5643.073
-1.15289	0.02216	0.86738	890.755	773.0261
1.55147	8.13E-06	1.55147	506.0255	788.7342

-1.02138	0.69579	0.97907	9537.729	9403.588
-1.08235	0.5948	0.92391	1079.338	1000.206
1.0017	0.98917	1.0017	536.9042	545.6402
-1.06864	0.53372	0.93577	1610.919	1489.852
1.0171	0.73844	1.0171	1453.578	1478.417
1.14045	0.06119	1.14045	8198.42	9453.413
1.12459	0.06884	1.12459	1322.229	1485.726
-1.07687	0.45456	0.92861	663.5726	620.9032
1.01354	0.97781	1.01354	113.2593	117.7895
-1.15254	0.0255	0.86765	2674.943	2320.731
1.03171	0.85362	1.03171	331.3922	340.6711
1.00448	0.94522	1.00448	1596.684	1608.101
-1.22688	0.2613	0.81508	1281.55	1032.412
-1.43399	0.0847	0.69736	344.2283	247.3681
1.54978	1.75E-06	1.54978	1104.403	1704.991
1.02635	0.7315	1.02635	2879.971	2992.92
1.04351	0.98076	1.04351	25.34784	25.62206
1.07607	0.49523	1.07607	611.3145	650.9634
1.01588	0.75755	1.01588	2384.116	2415.466
-1.02009	0.82181	0.98031	6773.907	6915.622
-1.04262	0.76766	0.95912	1030.884	1003.026
1.32348	0.6967	1.32348	58.52778	73.12101
-1.14498	0.46282	0.87338	522.9803	443.113
1.39948	4.50E-06	1.39948	1645.946	2309.116
1.4731	4.98E-09	1.4731	5516.032	8216.726
-1.00074	0.99311	0.99926	598.3264	600.7385
1.01878	0.7136	1.01878	1451.322	1478.581
-1.09515	0.65528	0.91311	338.3351	303.5103
-1.09276	0.56471	0.91511	332.6411	308.4265
1.14339	0.32048	1.14339	255.8231	292.2917
-1.03267	0.76246	0.96836	443.683	432.2226
1.00906	0.90079	1.00906	2109.166	2119.398
-1.07396	0.6315	0.93113	508.0265	476.3272
-1.10362	0.65607	0.90611	288.2924	247.1492
-1.30361	0.0391	0.7671	1507.217	1156.189
-1.00678	0.88876	0.99327	2171.22	2156.54
1.01053	0.88729	1.01053	1093.188	1104.838
1.11552	0.87912	1.11552	69.77392	79.53979
-1.15893	0.5398	0.86287	250.7554	216.1486
-1.05775	0.66266	0.94541	415.8345	396.7128
-1.0363	0.54335	0.96498	2279.419	2200.697
1.20132	0.0196	1.20132	694.3837	831.8561
-1.26866	1.26E-06	0.78823	2258.005	1780.457
-1.05928	0.49309	0.94404	721.5158	678.9379
1.13052	0.71074	1.13052	107.6089	120.6948
-1.07045	0.80063	0.93418	226.7067	215.6457
1.00321	0.97819	1.00321	473.0861	471.4663
1.02148	0.8158	1.02148	480.1999	489.8296
1.14587	0.20899	1.14587	569.5738	648.2467
-1.1805	0.03205	0.8471	987.861	838.1918
1.12018	0.8803	1.12018	57.75494	62.50342
1.01046	0.86617	1.01046	2079.604	2107.748

1.04101	0.72173	1.04101	583.9537	608.8263
-1.00931	0.91185	0.99078	677.3284	668.8237
1.25215	0.02396	1.25215	1000.717	1251.351
-1.05331	0.76092	0.94939	405.0936	397.0031
-1.06065	0.60889	0.94281	2470.202	2300.963
-1.20479	0.0407	0.83002	4112.651	3334.486
-1.00567	0.95318	0.99437	2087.897	2061.931
1.03823	0.65339	1.03823	976.2109	1009.215
1.31178	0.0199	1.31178	2310.992	3114.822
-1.0077	0.89196	0.99235	3095.033	3072.798
1.3411	0.02668	1.3411	2731.701	3796.427
1.00561	0.93028	1.00561	1645.28	1652.132
-1.20286	0.00144	0.83135	1541.7	1281.863
1.09706	0.37196	1.09706	655.698	712.0685
1.04115	0.67499	1.04115	2752.18	2920.374
1.05376	0.46553	1.05376	938.7932	991.1525
1.02132	0.79531	1.02132	570.938	584.8665
1.06352	0.85715	1.06352	140.2299	143.7559
-9.95656	5.07E-19	0.10044	14733.07	1280.658
-1.02766	0.81293	0.97308	524.0645	514.8175
1.03766	0.82727	1.03766	279.3545	289.8604
1.81054	7.57E-23	1.81054	1425.016	2578.104
-1.10079	0.65419	0.90843	293.2477	268.8378
1.00017	0.99914	1.00017	396.3236	394.7755
-1.3467	0.01311	0.74256	1220.45	908.0539
1.03834	0.5008	1.03834	3777.913	3912.322
1.68352	0.28814	1.68352	75.04034	123.9655
-1.01429	0.78009	0.98591	1916.83	1888.86
-1.11059	0.79379	0.90042	142.8698	127.718
-1.07504	0.53782	0.93019	551.2764	513.1749
-1.14007	0.52762	0.87714	209.4208	183.8122
1.23439	0.57962	1.23439	123.9105	151.5783
1.06948	0.37311	1.06948	801.9495	859.6845
-1.17966	0.51399	0.8477	205.1692	178.4071
1.05407	0.2441	1.05407	6541.191	6897.833
-1.07274	0.66403	0.93219	244.1252	228.2612
1.41954	0.00044	1.41954	939.387	1328.118
-1.33088	0.00003	0.75138	7391.901	5527.854
1.11387	0.70482	1.11387	181.217	193.9337
1.06957	0.76678	1.06957	180.2976	190.3907
1.03423	0.97305	1.03423	45.32389	43.65303
1.05095	0.60222	1.05095	543.6773	575.0781
1.16548	0.09654	1.16548	565.7518	662.5962
1.03779	0.53176	1.03779	6911.875	7111.751
1.10748	0.60805	1.10748	248.5826	275.0798
1.06405	0.48739	1.06405	887.8721	946.6469
-1.36428	0.00033	0.73299	12970.92	9235.949
-1.02304	0.85052	0.97748	361.8053	355.1657
1.16741	0.005	1.16741	1136.589	1326.869
1.01031	0.97145	1.01031	139.6691	141.0839
-1.15193	0.40122	0.86811	442.0966	387.6181
-1.01641	0.76254	0.98385	1164.408	1145.888

1.16642	0.02405	1.16642	742.088	864.1793
1.09458	0.11756	1.09458	1596.844	1749.505
-1.63817	0.01211	0.61044	489.0833	314.1223
1.13628	0.07059	1.13628	2322.606	2639.392
-1.01807	0.77447	0.98225	2816.275	2771.573
1.254	0.04309	1.254	1276.265	1609.196
-1.0766	0.39861	0.92885	1006.961	940.7387
1.00407	0.94324	1.00407	2417.29	2427.73
-1.04652	0.69022	0.95555	837.2821	806.1903
-1.16609	0.06187	0.85757	7504.021	6324.196
1.28109	0.12961	1.28109	364.1603	480.4601
1.02791	0.58335	1.02791	1353.039	1391.07
-1.10081	0.4349	0.90843	342.2605	311.5586
-1.48987	0.00128	0.6712	2876.291	1883.668
1.07796	0.27576	1.07796	1856.936	1992.363
-1.29904	0.01364	0.7698	10553.44	7930.821
-1.01621	0.8575	0.98405	758.1083	749.7419
1.03897	0.44457	1.03897	1627.953	1690.902
1.24717	0.00002	1.24717	4485.202	5594.105
1.13616	0.01883	1.13616	1958.315	2220.829
1.01875	0.76224	1.01875	4617.589	4695.343
-1.06563	0.64664	0.93841	413.4706	387.5151
-1.01151	0.85598	0.98862	2657.31	2614.18
1.02691	0.8309	1.02691	524.0845	530.8684
1.05433	0.32769	1.05433	1788.56	1885.927
-1.20409	0.01206	0.8305	19457.34	15895.15
-1.26325	0.05327	0.79161	1190.086	945.9503
-1.03422	0.85129	0.96691	398.8276	377.4523
-1.05754	0.29598	0.94559	1826.723	1727.237
-1.05469	0.56469	0.94814	1218.002	1169.715
1.00496	0.92964	1.00496	1189.908	1193.879
-1.01476	0.79347	0.98546	5174.855	5152.318
-1.01195	0.81262	0.98819	2738.108	2702.967
-1.06535	0.75918	0.93866	293.8992	278.0848
1.02113	0.82895	1.02113	520.5253	531.0501
-1.01274	0.85257	0.98742	1567.608	1552.034
1.03689	0.72124	1.03689	445.1914	462.9337
-2.00924	1.04E-10	0.4977	3281.578	1591.93
-1.0384	0.5432	0.96302	5311.811	5139.391
-1.1363	0.02171	0.88005	1488.82	1309.979
-1.01284	0.79144	0.98733	1588.928	1568.078
-1.0748	0.30313	0.93041	4708.717	4337.861
1.09066	0.55225	1.09066	245.7505	266.8359
1.01321	0.85443	1.01321	1079.544	1093.559
1.02535	0.74943	1.02535	720.2868	739.6215
1.21347	0.68081	1.21347	110.5676	140.8038
1.21989	0.0009	1.21989	1750.432	2135.59
1.23367	0.01059	1.23367	883.8498	1086.495
-1.12292	0.25238	0.89054	4520.491	3966.835
-1.01334	0.90367	0.98683	384.5114	380.8666
-1.01518	0.79574	0.98505	3059.843	3015.234
1.01875	0.82649	1.01875	1107.439	1123.603

-1.00221	0.98144	0.9978	789.9351	794.5551
1.02632	0.92545	1.02632	186.6375	192.9387
1.0999	0.29182	1.0999	520.3814	574.8519
-1.09022	0.69818	0.91725	255.4565	241.3897
1.02135	0.86173	1.02135	771.0742	778.6817
-1.17601	0.22789	0.85033	5772.875	4678.504
1.07839	0.45287	1.07839	738.267	791.6945
-1.03498	0.65575	0.9662	1214.569	1172.818
1.0039	0.98928	1.0039	205.4424	202.4063
1.0647	0.59701	1.0647	1157.149	1236.001
-1.02332	0.70727	0.97721	2503.563	2463.781
1.086	0.89331	1.086	82.50798	91.84608
-1.05937	0.81125	0.94396	274.5588	267.2487
1.42066	0.13506	1.42066	225.0216	309.4059
1.26271	0.00988	1.26271	579.1326	727.3039
-1.05822	0.49284	0.94498	739.8958	702.582
-1.11114	0.14082	0.89998	892.3793	802.7699
-1.17774	0.23335	0.84908	1122.386	959.5036
-1.06126	0.18529	0.94227	16620.49	15630.7
-1.12641	0.25275	0.88778	1426.119	1269.83
-1.13085	0.12377	0.88429	4749.906	4132.294
-1.00275	0.9941	0.99726	129.0206	128.9856
1.00198	0.97793	1.00198	5709.648	5644.123
-1.09529	0.29202	0.913	1100.691	1014.127
-1.05421	0.21677	0.94858	23387.98	22208.62
1.13781	0.07412	1.13781	1006.486	1143.354
-1.17416	0.1904	0.85167	643.0447	554.1773
-1.17654	0.16801	0.84995	1855.964	1545.485
1.02247	0.72481	1.02247	1351.963	1379.982
1.07162	0.24977	1.07162	1604.494	1722.721
1.3202	0.00251	1.3202	518.5467	686.3184
-1.10184	0.74741	0.90758	134.2353	122.0107
-1.34144	1.33E-06	0.74547	1344.253	1001.811
-1.15423	0.00083	0.86638	4834.159	4190.051
-1.00268	0.98004	0.99732	661.9965	663.9448
-1.01465	0.79089	0.98556	1791.001	1765.271
-1.01436	0.78122	0.98584	4004.269	3938.654
1.01561	0.83497	1.01561	589.1231	597.9612
-1.00021	0.99768	0.99979	2320.229	2319.755
1.09556	0.51309	1.09556	314.0248	346.0168
-1.16066	0.2032	0.86158	640.3673	558.5853
1.26382	0.4111	1.26382	106.9342	135.4447
-1.00669	0.97347	0.99336	229.3272	227.8374
1.02488	0.62994	1.02488	4424.143	4516.562
-1.17109	0.40553	0.85391	453.3621	386.0551
-1.07732	0.28005	0.92823	2399.119	2217.846
-1.02064	0.98404	0.97977	50.12628	46.49823
-1.26081	0.00003	0.79314	3960.673	3149.99
1.24942	2.64E-06	1.24942	36418.36	45365.36
-1.0068	0.96707	0.99325	247.8342	246.7856
-1.01197	0.95146	0.98817	303.9638	298.9965
1.04274	0.78013	1.04274	363.2147	372.6085

-1.16956	0.46686	0.85502	310.9075	280.528
-1.01375	0.83009	0.98644	2258.038	2209.064
1.16308	0.00151	1.16308	1752.642	2038.686
-1.03324	0.68007	0.96783	1467.351	1418.799
-1.15113	0.20986	0.86871	975.6525	852.1184
1.07821	0.46102	1.07821	545.4341	583.4808
1.13398	0.01462	1.13398	1677.813	1902.974
1.23811	0.01075	1.23811	654.0259	806.6161
1	1	1	23.73758	21.94748
-1.07592	0.69041	0.92944	286.3174	267.2954
1.01655	0.78787	1.01655	1031.774	1048.471
-1.04904	0.79215	0.95325	312.8597	297.091
-1.04003	0.57169	0.96151	3744.081	3600.036
1.29634	0.00321	1.29634	780.8501	1016.203
1.09961	0.68315	1.09961	141.9449	155.3209
1.03549	0.95615	1.03549	82.75344	87.25518
-1.05699	0.2856	0.94609	2266.388	2141.728
1.03899	0.7799	1.03899	454.0862	464.2568
-1.02017	0.91925	0.98023	325.6552	322.3769
-1.2497	0.01274	0.80019	859.449	690.7074
1.07163	0.846	1.07163	90.91486	97.3604
-1.03709	0.60267	0.96424	1401.573	1357.072
-1.00982	0.87038	0.99028	1982.51	1964.906
-1.04493	0.3671	0.957	3468.566	3322.271
-1.07056	0.30942	0.93409	4266.411	3945.751
-1.00123	0.99043	0.99877	462.4768	463.6187
-1.09711	0.74375	0.91149	162.515	151.0149
1.00364	0.96348	1.00364	3653.04	3728.448
-1.03632	0.82665	0.96495	486.6475	482.8351
1.06768	0.57955	1.06768	814.2053	880.1806
-1.5306	3.68E-06	0.65334	2218.028	1448.034
1.07984	0.33468	1.07984	624.8737	674.8579
1.07012	0.62363	1.07012	564.4476	592.2069
1.01638	0.77468	1.01638	2711.456	2745.43
1.096	0.91777	1.096	58.12156	60.97943
-1.11358	0.52459	0.89801	405.7989	361.6328
-1.00556	0.97313	0.99447	378.8059	378.6566
-1.03054	0.51745	0.97037	4065.838	3948.364
-1.05622	0.33419	0.94677	5068.186	4782.355
1.03403	0.87945	1.03403	185.6818	189.5908
-1.08556	0.42776	0.92118	570.6109	527.9315
1.02738	0.72879	1.02738	674.4426	691.7469
1.01793	0.85868	1.01793	2387.45	2461.698
-1.01985	0.82329	0.98054	1672.196	1629.906
-1.33192	0.09355	0.75079	436.6337	326.3297
1.03988	0.81927	1.03988	302.8723	309.5262
1.1702	0.05989	1.1702	16404.69	19752.32
1.04064	0.5789	1.04064	1329.124	1384.156
-1.45646	0.01415	0.6866	676.0315	474.0216
1.04209	0.71202	1.04209	2307.808	2372.62
1.0345	0.73216	1.0345	382.0322	396.1465
-1.00406	0.95504	0.99596	3495.245	3543.558

1.03612	0.57973	1.03612	1052.472	1089.529
-1.02131	0.84448	0.97914	730.1909	712.3781
1.08196	0.54112	1.08196	341.193	372.1408
1.36033	0.02928	1.36033	325.3583	446.1279
1.09846	0.59378	1.09846	214.6422	234.7198
1.03304	0.60009	1.03304	2356.353	2435.433
1.00937	0.89749	1.00937	3089.939	3078.514
-1.21913	0.06989	0.82026	1896.163	1532.451
-1.30282	0.11528	0.76756	491.7855	390.4054
-1.17673	0.28135	0.84981	336.6158	288.9874
1.0956	0.16679	1.0956	35012.68	38598.44
1.08441	0.28514	1.08441	496.4286	538.8245
-1.03581	0.9531	0.96543	91.18097	89.32634
-1.08345	0.37309	0.92297	714.007	662.1836
1.17696	0.22873	1.17696	403.9202	468.4224
-1.03749	0.86809	0.96386	255.213	247.0173
-1.01638	0.76785	0.98388	2162.432	2122.202
1.09256	0.17948	1.09256	4285.82	4642.179
-1.01545	0.87658	0.98478	600.162	595.5286
-1.00594	0.93342	0.99409	9912.074	9972.196
-1.09965	0.56513	0.90938	363.0504	332.5411
-3.02877	1.69E-33	0.33017	13482.88	4532.278
-1.04377	0.56028	0.95807	2394.92	2300.308
1.01185	0.89412	1.01185	691.9741	697.0717
1.15983	0.89482	1.15983	41.06028	46.99312
1.10921	0.0769	1.10921	1047.037	1161.426
1.15162	0.87216	1.15162	51.95238	55.44669
1.01154	0.83679	1.01154	6186.41	6260.338
-1.03709	0.57221	0.96424	973.246	935.8088
-1.73158	0.05354	0.57751	259.8533	153.5613
1.11528	0.12923	1.11528	726.8657	809.8059
1.0363	0.51895	1.0363	3411.83	3556.185
-1.0634	0.6882	0.94038	410.8449	394.6321
-1.03712	0.84411	0.96421	418.206	397.4356
1.124	0.22471	1.124	517.8613	585.0316
-1.05601	0.55814	0.94696	975.3422	929.7365
1.13882	0.17216	1.13882	13775.43	15587.61
1.11719	0.38581	1.11719	1309.999	1458.471
1.04695	0.77133	1.04695	638.8621	686.8919
-1.12475	0.32557	0.88909	821.8569	739.0973
1.05583	0.63834	1.05583	24930.34	26997.88
1.08535	0.14164	1.08535	865.9628	940.0875
-1.01755	0.78121	0.98275	2667.656	2601.531
1.12056	0.17903	1.12056	616.1932	689.717
1.01101	0.88194	1.01101	2011.71	2034.431
-1.26102	0.02441	0.79301	1883.062	1482.868
-1.0165	0.84804	0.98377	536.9562	529.1536
1.04359	0.47459	1.04359	1438.635	1502.703
-1.21689	0.07588	0.82177	1469.216	1212.477
1.00359	0.93821	1.00359	4442.632	4461.739
-1.01948	0.90762	0.9809	311.0815	304.8553
-1.12976	0.27403	0.88515	523.2225	463.9827

1.16712	0.56563	1.16712	179.2761	209.1159
-1.1596	0.8349	0.86236	81.21419	68.30515
1.12928	0.22862	1.12928	2311.199	2647.063
-1.03558	0.60247	0.96565	1134.791	1092.023
1.01563	0.86768	1.01563	787.8946	793.6239
1.16582	0.25185	1.16582	315.8723	368.8216
1.09226	0.05905	1.09226	2260.526	2469.595
1.07478	0.24033	1.07478	1082.085	1162.99
-1.00162	0.98584	0.99839	763.4343	766.4828
-1.04048	0.7449	0.9611	328.7092	316.971
1.08641	0.0775	1.08641	1573.928	1710.872
-1.00293	0.98354	0.99708	412.221	407.1105
1.1736	0.08578	1.1736	637.1065	742.3393
1.18584	0.00154	1.18584	2176.008	2586.07
1.01176	0.86958	1.01176	3414.531	3449.533
-1.02084	0.81772	0.97959	3975.356	3994.823
1.00895	0.88151	1.00895	924.6487	934.0471
-1.0206	0.83833	0.97981	885.3282	865.1044
-1.13108	0.04187	0.88411	4638.489	4073.158
1.29796	4.98E-07	1.29796	5101.964	6635.636
1.13429	0.08954	1.13429	717.246	810.5703
-1.0174	0.86221	0.9829	386.5837	379.8785
-1.1297	0.29529	0.88519	498.7848	442.0367
-1.01692	0.93859	0.98336	206.1817	202.6787
1.25385	0.00068	1.25385	916.991	1149.707
-1.06214	0.30909	0.9415	1081.69	1020.58
-1.01089	0.84668	0.98922	2447.813	2418.742
-1.02394	0.79406	0.97662	757.5584	737.906
1.17678	0.67389	1.17678	114.4301	131.2132
1.07898	0.91538	1.07898	67.75684	68.40738
1.10379	0.28432	1.10379	1208.129	1332.85
-1.01199	0.87684	0.98816	1163.056	1155.082
-1.01976	0.87916	0.98062	363.3974	356.2719
-1.07737	0.81087	0.92819	199.8679	197.2616
1.01522	0.79618	1.01522	1237.153	1254.957
-1.03991	0.58582	0.96162	952.3292	918.21
-1.00557	0.94815	0.99446	2088.76	2082.271
-1.09301	0.51506	0.91491	337.1073	306.388
-1.01059	0.94706	0.98952	479.8143	480.3095
-1.15828	0.9346	0.86335	27.25259	24.29219
1.31955	0.00056	1.31955	687.7221	908.5085
-1.06292	0.47759	0.94081	2561.043	2367.724
-1.00907	0.86694	0.99101	1008.034	998.2197
-1.10111	0.07807	0.90818	160384.4	146809.7
1.16774	0.21975	1.16774	607.4253	698.6606
-1.0074	0.97819	0.99266	157.9595	158.2648
-1.01261	0.86233	0.98755	842.2389	830.8141
-1.23446	0.07216	0.81007	22966.58	17623.87
1.18612	0.05073	1.18612	1068.72	1267.812
-1.05133	0.4305	0.95117	9190.758	8666.24
-1.0251	0.93938	0.97551	161.5952	156.4672
1.2227	0.05771	1.2227	1279.939	1571.406

-1.11023	0.47198	0.90071	766.2885	700.2848
-1.67091	0.00479	0.59847	694.3181	420.2094
-1.01669	0.75662	0.98359	3696.45	3625.6
-1.00926	0.93351	0.99083	396.4127	393.8165
-1.26007	0.01741	0.79361	4713.906	3642.928
1.11646	0.6451	1.11646	166.4496	183.2213
-1.01731	0.81109	0.98299	2278.074	2238.851
-1.08485	0.31519	0.92179	950.0736	880.9164
-1.08667	0.54013	0.92024	622.6415	584.3258
-1.31943	0.03897	0.7579	887.3126	681.151
1.07446	0.40351	1.07446	2121.416	2262.079
-1.22017	0.49803	0.81955	138.245	114.5729
-1.10719	0.07143	0.90319	1629.496	1472.723
-1.04581	0.59726	0.9562	1619.107	1541.109
1.00875	0.8982	1.00875	3323.56	3319.738
1.26046	0.00003	1.26046	4367.219	5526.234
-1.00076	0.99645	0.99924	291.7707	291.9067
1.03629	0.89232	1.03629	242.9644	259.0497
-1.01397	0.80155	0.98622	1046.318	1031.129
-1.09885	0.36457	0.91004	577.8841	525.9159
1.03967	0.54423	1.03967	1525.716	1588.426
-1.0951	0.42089	0.91316	3108.668	2870.745
-1.08364	0.9031	0.92281	85.22644	78.67827
-1.09028	0.18306	0.9172	1132.067	1039.005
1.09708	0.311	1.09708	470.1353	514.033
-1.1076	0.28936	0.90285	1056.398	963.354
1.29334	0.00005	1.29334	2246.772	2886.859
-1.03061	0.6964	0.9703	4406.148	4228.02
-1.18883	0.22071	0.84116	1197.335	1015.5
1.01478	0.8671	1.01478	1113.507	1125.121
-1.05184	0.69608	0.95072	761.1762	727.8256
1.11362	0.18078	1.11362	927.9443	1034.446
1.24408	0.12349	1.24408	334.135	410.2933
1.00949	0.86496	1.00949	5130.299	5178.984
1.02983	0.78715	1.02983	1627.335	1678.411
1.02104	0.8236	1.02104	5901.356	5975.251
1.07558	0.48213	1.07558	804.1299	859.1886
1.51946	0.02632	1.51946	344.7255	502.217
-1.07349	0.28289	0.93154	1284.2	1199.043
1.19573	0.00256	1.19573	54389.95	65833.63
-1.26768	0.00879	0.78885	9281.468	7198.34
-1.11697	0.2191	0.89528	904.4769	815.1222
-1.74725	1.81E-10	0.57233	36650	21080.36
1.37004	0.00118	1.37004	533.7685	734.53
-1.07118	0.31284	0.93355	1822.25	1708.795
-1.08391	0.30823	0.92259	701.5443	644.737
-1.5339	0.00012	0.65193	2836.935	1855.983
1.07764	0.65728	1.07764	568.6863	612.6492
-1.22963	0.12274	0.81325	558.027	454.2805
1.03243	0.80949	1.03243	469.2374	477.2559
1.08237	0.46255	1.08237	4970.776	5262.747
-1.13091	0.77291	0.88424	136.3071	120.2159

1.34408	0.79591	1.34408	33.26204	46.57806
1.1466	0.32302	1.1466	305.6754	347.4963
-1.08669	0.69726	0.92023	190.0838	173.5306
1.0627	0.22912	1.0627	2010.705	2135.28
1.24023	1.60E-06	1.24023	2845.297	3529.962
1.01976	0.86086	1.01976	2874.916	2924.142
-1.07185	0.33364	0.93297	878.1581	820.6402
-1.24457	1.53E-06	0.80349	6258.409	5022.935
-1.10027	0.22621	0.90887	775.5052	707.1463
1.27461	0.37205	1.27461	128.626	163.927
-1.03552	0.91701	0.9657	124.121	119.825
1.22103	0.00991	1.22103	2695.793	3279.744
1.12495	0.03154	1.12495	2066.18	2329.276
-1.02054	0.82672	0.97987	592.0693	577.3348
-1.18988	0.39505	0.84042	568.6317	499.8598
1.02209	0.85283	1.02209	2291.381	2359.089
1.46453	0.23443	1.46453	123.9824	180.2024
-1.20513	0.33665	0.82979	430.2741	369.7648
1.2398	0.09235	1.2398	583.2111	721.1221
1.05706	0.48166	1.05706	746.8202	789.4187
1.09942	0.11686	1.09942	1485.754	1632.981
-1.75146	8.95E-07	0.57095	976.4888	560.5671
-1.15879	0.35731	0.86297	430.6523	372.2729
1.02084	0.89256	1.02084	460.6616	458.1846
-1.01311	0.89114	0.98706	469.0209	464.4953
1.18332	0.00549	1.18332	895.3291	1059.015
1.01523	0.95045	1.01523	236.5293	239.0951
1.18596	0.00239	1.18596	2159.853	2562.854
-1.04471	0.64668	0.9572	1070.339	1022.9
-1.05514	0.76203	0.94774	363.4998	354.4474
1.00569	0.98327	1.00569	207.0923	210.3962
-1.07261	0.25492	0.93231	26256.82	24639.96
1.01434	0.86206	1.01434	838.3711	854.1934
1.23754	0.00666	1.23754	1034.828	1273.139
-1.05313	0.81662	0.94955	265.1683	251.3092
-1.0692	0.83999	0.93528	184.0594	176.153
1.01063	0.92422	1.01063	398.1811	402.6155
-1.10435	0.19995	0.90551	1033.814	942.0083
-1.01168	0.80616	0.98845	2951.948	2921.938
-1.18861	0.0554	0.84132	1408.079	1181.904
1.12106	0.26744	1.12106	1766.605	1996.309
-1.37274	0.0131	0.72847	1178.125	860.1823
-1.02754	0.61882	0.9732	4291.845	4178.356
1.15991	0.08717	1.15991	593.4839	689.7488
1.01672	0.82224	1.01672	1010.363	1029.055
1.21169	0.24005	1.21169	238.39	290.2344
1.24006	0.1146	1.24006	1318.178	1685.334
-1.06929	0.83138	0.9352	182.7146	170.3719
1.06811	0.36101	1.06811	3144.159	3412.163
1.02467	0.70493	1.02467	1224.084	1252.938
-1.04844	0.45806	0.9538	2580.982	2481.496
1.01604	0.89693	1.01604	552.9803	554.1081

1.00353	0.97158	1.00353	893.6769	894.629
1.05553	0.60412	1.05553	520.8136	553.876
-1.12593	0.11781	0.88815	599.4376	532.5935
1.11891	0.13153	1.11891	1130.539	1264.975
1.35414	0.00136	1.35414	2588.587	3591.763
-1.09816	0.43623	0.91061	605.2675	558.6245
-1.28178	0.87418	0.78017	33.18391	26.56028
-1.42147	0.00002	0.7035	1724.473	1210.033
-1.07507	0.37387	0.93017	629.2982	587.647
-1.03505	0.71719	0.96614	428.1247	413.8026
1.07066	0.40027	1.07066	2093.379	2246.547
-1.12919	0.72923	0.88559	169.4398	153.6289
-1.12357	0.10325	0.89002	2704.095	2381.646
1.43351	0.32757	1.43351	101.9225	147.8533
1.00352	0.96487	1.00352	654.827	659.7747
-1.09585	0.35096	0.91254	24050.53	22799.4
-1.09127	0.39816	0.91636	604.9624	549.5198
1.0433	0.76186	1.0433	394.4561	417.625
1.60819	3.88E-17	1.60819	22387.32	35821.82
-1.15874	0.00429	0.863	11189.18	9700.484
1.17698	0.89579	1.17698	30.37196	35.46362
-1.0529	0.6028	0.94976	573.0818	540.3276
1.01598	0.86582	1.01598	691.634	699.1016
1.04933	0.59507	1.04933	127314.7	137557.7
1.05225	0.60295	1.05225	1914.432	2041.582
-1.02385	0.58655	0.97671	4997.723	4879.667
-1.08781	0.1454	0.91928	1102.805	1013.867
1.00958	0.93587	1.00958	1105.426	1110.788
1.0895	0.0738	1.0895	2118.636	2307.193
-1.07055	0.78077	0.9341	246.153	232.5404
1.13151	0.00356	1.13151	10739.53	12139.86
1.0846	0.34437	1.0846	836.0015	901.9842
-1.02627	0.76826	0.9744	766.7028	752.0444
-1.03281	0.89553	0.96823	155.3564	151.9164
1.02288	0.93949	1.02288	174.5759	179.7958
1.03123	0.52755	1.03123	2179.478	2247.5
-1.10055	0.383	0.90864	634.0892	581.3972
-1.01066	0.93018	0.98946	491.5139	480.7936
-1.08869	0.0468	0.91854	3190.121	2930.329
-1.15036	0.10493	0.86929	887.6328	773.6414
-1.14521	0.27103	0.87321	1979.031	1720.443
-1.10415	0.12111	0.90567	6731.12	6054.799
1.61828	4.33E-10	1.61828	1655.957	2702.419
1.03877	0.64845	1.03877	2188.749	2295.752
-1.50749	2.07E-08	0.66335	7039.219	4602.808
1.01729	0.84878	1.01729	1122.331	1143.622
-1.08925	0.42576	0.91806	1396.62	1282.039
-1.03706	0.57349	0.96427	1998.372	1924.678
-1.10602	0.19532	0.90414	75457.91	69637.29
1.19414	0.30102	1.19414	397.9095	459.7904
1.02667	0.82328	1.02667	657.5775	673.0801
-1.15811	0.07031	0.86348	920.7643	798.715

1.17617	0.00015	1.17617	66741.65	78613.29
-1.20761	0.00007	0.82808	9605.529	7938.687
-1.00466	0.96988	0.99536	482.7991	476.4974
1.22421	0.00491	1.22421	1589.135	1955.266
1.07949	0.1837	1.07949	1200.931	1298.304
-1.02962	0.9557	0.97123	105.9724	99.87235
1.0762	0.74473	1.0762	249.4617	271.0944
1.04375	0.63238	1.04375	2855.276	2988.015
-1.13849	0.00119	0.87836	4830.125	4255.834
-1.00452	0.96721	0.9955	508.847	508.5529
1.14171	0.32035	1.14171	396.3766	450.0322
-1.00591	0.9275	0.99412	2127.819	2112.512
1.02455	0.939	1.02455	140.4303	143.5725
-1.38468	1.54E-07	0.72219	1457.18	1052.551
-1.07781	0.70604	0.92781	279.7162	260.5108
1.06726	0.84506	1.06726	153.587	154.239
-1.07246	0.34064	0.93244	1136.865	1063.607
1.2055	0.26287	1.2055	451.8668	546.0458
-1.04741	0.41967	0.95474	1891.847	1809.77
1.29268	1.62E-06	1.29268	1401.397	1812.194
1.00479	0.96892	1.00479	669.8846	682.9582
-2.03634	2.08E-12	0.49108	700.5513	345.4413
-1.0863	0.19237	0.92056	4541.649	4137.854
1.18826	0.07033	1.18826	519.3621	613.7065
-1.03735	0.88903	0.96399	166.0151	160.1191
-1.05149	0.83592	0.95104	245.8814	231.513
1.03268	0.7754	1.03268	631.4899	644.3972
-1.02062	0.87956	0.9798	452.1701	441.1937
1.75336	4.25E-16	1.75336	1589.609	2804.416
1.11139	0.26894	1.11139	599.948	665.4049
-1.00265	0.98641	0.99736	275.1556	274.8727
-1.04903	0.59662	0.95326	771.997	739.9518
-1.02859	0.88095	0.97221	291.8188	282.6202
-1.09036	0.57746	0.91713	418.8674	384.519
1.09612	0.12209	1.09612	971.6067	1064.58
1.04221	0.52069	1.04221	5118.724	5349.901
1.17635	0.00149	1.17635	2685.723	3167.644
1.0283	0.7928	1.0283	2238.773	2373.689
1.06812	0.64889	1.06812	382.7025	409.6584
1.0799	0.75782	1.0799	136.0072	147.2744
1.02628	0.67679	1.02628	1531.184	1570.724
1.03546	0.69793	1.03546	1744.602	1785.588
-1.29714	0.00836	0.77093	2136.384	1646.912
1.22522	0.00183	1.22522	2909.24	3562.672
1.11729	0.34909	1.11729	669.757	757.4243
1.04232	0.58159	1.04232	1165.271	1211.641
1.04979	0.50801	1.04979	1684.624	1775.204
-1.22987	6.04E-06	0.81309	5870.282	4779.465
-1.00213	0.96596	0.99788	1815.928	1811.677
1.09223	0.13738	1.09223	7650.359	8384.461
-1.17138	0.03483	0.8537	914.5949	783.5429
1.08736	0.12592	1.08736	1149.224	1249.375

-1.27236	0.36117	0.78594	201.3441	154.6957
-1.17535	0.02934	0.85081	860.8322	733.7766
1.20066	0.17162	1.20066	251.4625	301.9302
1.22198	0.00756	1.22198	8313.038	10284.46
-1.10617	0.23741	0.90402	6317.933	5780.875
1.12705	0.37445	1.12705	322.4921	360.2982
-1.11024	0.63979	0.90071	302.1133	266.6063
-1.27139	0.08638	0.78654	1184.011	934.5431
-1.13907	0.065	0.87791	2963.702	2579.588
-1.08751	0.43318	0.91953	594.2116	541.5475
-1.18743	0.08823	0.84216	5030.616	4148.868
1.00576	0.95891	1.00576	1261.956	1274.001
-1.07436	0.48971	0.93078	1206.086	1119.178
1.14586	0.02225	1.14586	4033.648	4598.697
1.54012	5.95E-06	1.54012	456.8423	699.5073
1.0673	0.52572	1.0673	1073.914	1147.848
-1.14769	0.23421	0.87131	618.8132	545.6697
-1.05685	0.367	0.94621	1805.078	1699.94
-1.06697	0.17499	0.93723	2425.807	2272.562
-1.06644	0.1985	0.9377	2187.709	2049.765
1.63524	2.08E-11	1.63524	12261.72	19815.83
1.05036	0.55983	1.05036	602.4587	631.1757
1.29424	9.70E-07	1.29424	12234.66	16059.08
1.27284	0.54757	1.27284	107.3363	133.7458
-1.04135	0.75224	0.96029	630.7508	604.3066
1.16584	0.00443	1.16584	4300.333	5028.053
-1.01386	0.72305	0.98633	3387.977	3330.975
-1.26971	0.02675	0.78758	1120.063	879.6657
-1.04601	0.57272	0.95602	3863.129	3666.498
-1.00138	0.99002	0.99862	768.383	759.3623
1.01768	0.80825	1.01768	1595.971	1637.696
-1.29734	0.15839	0.77081	450.2024	362.3654
1.21504	0.00017	1.21504	2409.733	2920.813
-1.06136	0.57312	0.94218	797.059	754.484
1.08718	0.28968	1.08718	5518.188	6095.138
1.27846	0.18672	1.27846	762.4253	1002.048
-1.05629	0.42621	0.94671	1615.373	1523.846
1.23013	0.00267	1.23013	1140.236	1401.804
1.02551	0.95567	1.02551	119.3739	124.469
-1.24464	6.39E-06	0.80344	24850.47	19887.27
1.07674	0.84316	1.07674	152.9666	171.6548
1.14148	0.03935	1.14148	12311.62	13906.37
-1.06275	0.55877	0.94095	599.6812	567.2228
-1.03236	0.63551	0.96865	3068.328	2959.16
-1.00263	0.97463	0.99738	1266.054	1262.84
1.02452	0.73906	1.02452	1229.172	1257.782
-1.0294	0.74383	0.97144	845.4069	816.7661
1.07394	0.19799	1.07394	2573.273	2756.321
-1.19051	0.00017	0.83998	7754.512	6501.892
1.00966	0.95459	1.00966	352.507	354.5978
1.11477	0.47705	1.11477	327.5389	360.5475
1.00397	0.96807	1.00397	704.6337	712.6853

-1.31031	0.00394	0.76318	4433.217	3366.289
1.13106	0.04663	1.13106	1394.376	1575.732
-1.11698	0.07695	0.89527	843.3407	754.5077
1.38708	0.03739	1.38708	277.2014	379.9564
1.04199	0.71877	1.04199	476.3845	500.0209
-1.01825	0.84687	0.98207	530.7929	523.0331
2.21274	6.20E-21	2.21274	1228.238	2739.179
1.15964	0.32137	1.15964	342.723	391.8333
1.00641	0.96054	1.00641	604.2037	613.2493
-1.0156	0.83234	0.98464	766.2056	751.9116
1.27987	0.01055	1.27987	868.7173	1109.789
-1.08965	0.80317	0.91773	158.9531	146.7572
1.24551	0.00079	1.24551	1066.206	1328.334
-1.04638	0.34635	0.95567	2471.777	2365.188
1.11818	0.10488	1.11818	3371.587	3738.552
1.27825	0.00173	1.27825	15285.47	19180.75
1.25004	0.00006	1.25004	9015.702	11232.61
1.02484	0.6194	1.02484	1557.755	1596.49
-1.34909	5.34E-07	0.74124	7795.124	5814.667
-1.11498	0.23658	0.89687	3186.521	2854.425
1.00611	0.93504	1.00611	1338.821	1351.644
-1.03279	0.71859	0.96825	1061.666	1035.116
1.12698	0.13118	1.12698	3439.354	3826.776
-1.01023	0.86606	0.98988	1287.917	1275.17
1.00607	0.90049	1.00607	9149.682	9212.924
-1.11692	0.57472	0.89532	236.9556	212.2391
-1.05742	0.37994	0.94569	3528.728	3379.866
-1.02003	0.97372	0.98036	90.62709	88.39219
1.0103	0.87085	1.0103	3305.411	3333.734
-1.16138	0.34493	0.86105	943.2703	823.6449
-1.2186	0.01858	0.82062	18446.86	15339.49
1.02608	0.66387	1.02608	2006.551	2066.427
1.03231	0.60616	1.03231	1064.152	1097.147
1.10993	0.66358	1.10993	165.6477	185.9424
1.48971	0.00345	1.48971	1774.347	2743.052
1.27516	0.01259	1.27516	418.636	533.3431
1.0399	0.3619	1.0399	7221.136	7515.414
1.1075	0.07266	1.1075	3028.247	3370.48
-1.06804	0.39198	0.93629	613.7508	575.1758
-1.08513	0.57919	0.92155	315.8367	292.2363
-1.00697	0.9288	0.99307	941.2495	937.6725
-1.07582	0.58579	0.92953	394.129	368.752
-1.04311	0.53652	0.95867	1323.255	1272.059
-1.07585	0.25447	0.92949	1653.739	1539.886
-1.05324	0.57541	0.94945	5266.876	5109.637
-1.11302	0.54056	0.89846	417.7912	370.9782
1.03104	0.71339	1.03104	716.2184	736.0828
1.14603	0.04268	1.14603	2223.11	2555.206
-1.00693	0.92678	0.99312	2210.281	2182.994
-1.00771	0.90844	0.99234	1300.413	1287.018
-1.05886	0.67354	0.94441	437.9236	418.5472
-1.00663	0.95138	0.99342	551.3219	547.2964

-1.18697	0.00535	0.84248	8477.945	7217.804
1.05435	0.24984	1.05435	33697.3	35390.5
-1.24831	0.11564	0.80108	499.642	406.8999
1.21288	0.00013	1.21288	5681.758	6872.184
-1.43735	1.30E-12	0.69572	42037.02	29158.73
1.17739	0.00232	1.17739	1473.377	1736.172
-1.06396	0.6979	0.93988	464.5958	449.6317
1.08463	0.7327	1.08463	205.5685	223.9997
-1.09666	0.63196	0.91186	341.2107	311.0099
-1.06677	0.56525	0.93741	581.7565	551.1893
-1.0668	0.50499	0.93738	753.0838	706.448
-1.10355	0.64804	0.90617	286.3584	259.8612
-1.11674	0.24501	0.89546	894.9025	799.4126
-1.02271	0.76233	0.97779	3250.127	3157.798
1.13988	0.002	1.13988	8752.844	9974.949
-1.21654	0.52263	0.822	203.3948	165.833
-1.0404	0.80689	0.96117	256.9408	245.4326
1.14342	0.0445	1.14342	1123.349	1278.328
1.10209	0.03597	1.10209	2151.354	2370.629
-1.09927	0.67726	0.90969	294.8639	263.0203
-1.18837	0.23393	0.84149	3675.896	2937.435
1.57314	2.17E-07	1.57314	515.9785	807.8406
-1.21796	0.0512	0.82104	1230.575	1015.638
-1.24815	0.00376	0.80119	1549.382	1242.621
-1.13921	0.19702	0.8778	1455.365	1273.184
1.09684	0.58292	1.09684	331.9107	364.2475
-1.73513	0.00008	0.57633	1319.723	760.2988
1.02404	0.86963	1.02404	472.2761	478.1273
-1.28378	0.00002	0.77895	1687.617	1315.366
-1.02555	0.88749	0.97509	220.6752	214.3692
-1.13606	0.7596	0.88023	139.4013	123.5753
-1.1063	0.61818	0.90392	266.351	246.3075
-1.11242	0.59578	0.89894	503.4886	473.0707
1.02828	0.96373	1.02828	80.77769	83.74709
1.0777	0.30654	1.0777	952.8323	1023.948
-1.0018	0.97884	0.99821	745.4958	744.4603
-1.17216	0.04867	0.85313	2984.79	2508.979
-1.01773	0.91976	0.98258	379.3536	370.7505
-1.00929	0.88791	0.9908	1451.687	1440.276
-1.08568	0.34482	0.92108	711.2661	658.0648
-1.02173	0.90243	0.97873	385.2235	380.3268
-1.00757	0.95608	0.99249	711.6078	718.9424
-1.30297	0.10153	0.76748	365.5521	278.7092
-1.11421	0.32274	0.8975	524.0258	469.5469
1.0796	0.21191	1.0796	4596.649	5002.466
-1.10395	0.28923	0.90584	2457.284	2201.459
1.03007	0.90861	1.03007	194.4305	206.7561
-1.3496	0.00004	0.74096	56571.43	41336.7
1.22855	0.06097	1.22855	4309.182	5439.244
1.05813	0.39273	1.05813	2208.102	2336.945
-1.0422	0.42478	0.95951	2189.18	2103.93
1.02811	0.59173	1.02811	2809.39	2894.426

1.01703	0.9082	1.01703	285.9454	290.913
-1.09348	0.75769	0.91451	201.7893	182.3167
-1.03051	0.8356	0.97039	273.8787	267.1619
-1.01654	0.92115	0.98373	424.7	429.6905
1.06666	0.5194	1.06666	3777.807	3940.994
1.33027	0.02226	1.33027	511.7654	690.742
1.01791	0.76355	1.01791	1228.334	1248.956
-1.23617	0.03592	0.80895	1315.609	1060.38
1.21644	0.54308	1.21644	114.298	136.5933
-2.21878	0.00394	0.4507	322.2196	157.2404
-1.11397	0.2196	0.89769	4532.232	3981.664
-1.07988	0.56436	0.92603	4700.931	4164.011
1.01673	0.84596	1.01673	630.3906	643.1374
-1.11881	0.25215	0.89381	3682.103	3249.011
1.02303	0.84341	1.02303	361.728	369.5097
-1.00984	0.96227	0.99025	273.6836	270.7314
1.12454	0.34694	1.12454	347.7477	391.2441
-1.25908	1.03E-07	0.79423	4879.72	3877.378
-1.00225	0.9661	0.99776	3620.322	3615.235
-1.25743	0.33664	0.79528	232.6717	184.5205
-1.0148	0.81971	0.98542	2011.059	1977.095
-1.18407	0.32656	0.84454	443.6884	379.8605
1.44944	0.65744	1.44944	40.85927	58.27301
-1.01336	0.86197	0.98681	1131.141	1119.397
-1.08125	0.60785	0.92486	465.4328	430.9676
1.04096	0.79561	1.04096	3396.832	3551.637
-1.07468	0.63578	0.93051	389.8402	362.7366
1.00806	0.97339	1.00806	248.7244	253.5104
-1.00447	0.96874	0.99555	682.1979	683.0087
-1.13441	0.50699	0.88152	500.2054	459.8861
1.03476	0.68959	1.03476	1700.688	1752.182
-1.16147	0.35337	0.86098	464.6984	401.8469
-1.04589	0.61828	0.95613	689.5176	662.4293
1.26087	0.00022	1.26087	3797.524	4811.426
-1.05948	0.55253	0.94386	3390.479	3265.761
-1.18972	0.0122	0.84053	1786.537	1496.911
-1.01429	0.87888	0.98591	1078.371	1058.396
-1.10161	0.53808	0.90776	402.4454	367.1312
-1.11554	0.24289	0.89643	600.7587	541.6196
-1.30994	0.00026	0.76339	3066.12	2323.508
1.05447	0.39093	1.05447	790.4994	833.5391
1.02681	0.68594	1.02681	5311.516	5400.264
1.0431	0.78009	1.0431	461.2206	493.7962
1.09725	0.84459	1.09725	90.80745	96.9126
-1.04521	0.64436	0.95674	450.1054	431.8684
1.17174	0.69284	1.17174	79.19331	92.95458
1.00763	0.87978	1.00763	6567.501	6620.982
-1.0115	0.85522	0.98863	4553.839	4562.932
-1.02197	0.87159	0.9785	423.0183	419.7443
-1.004	0.94967	0.99601	2628.616	2627.708
-1.01238	0.84095	0.98777	2743.024	2710.654
1.0106	0.94102	1.0106	4774.85	4678.898

-1.04516	0.59075	0.95679	1190.013	1143.326
1	1	1	27.22303	19.48373
1.07661	0.10517	1.07661	4205.246	4520.173
1.07191	0.25718	1.07191	1454.931	1558.63
1.07897	0.75461	1.07897	166.0622	181.4713
1.00622	0.92725	1.00622	939.5485	943.5438
-1.04388	0.70933	0.95797	757.0059	726.7531
-1.11846	0.38393	0.89409	509.7853	455.4628
1.18327	0.49642	1.18327	293.0761	361.238
-1.08798	0.81701	0.91913	159.5965	145.7573
-1.05346	0.43149	0.94925	1355.156	1289.377
1.07665	0.53632	1.07665	1492.021	1607.536
-1.11687	0.16971	0.89536	837.5461	753.3794
1.1274	0.17049	1.1274	2194.497	2441.78
1.05217	0.653	1.05217	417.885	438.3906
1.4299	0.45486	1.4299	95.65051	128.91
-1.06803	0.44186	0.9363	1625.779	1515.266
-1.0995	0.68154	0.9095	222.8395	203.2635
1.03637	0.68625	1.03637	580.7001	598.9192
-1.26109	0.00158	0.79296	3764.189	2960.166
1.22476	0.05253	1.22476	3820.75	4606.786
1.06864	0.3838	1.06864	1455.541	1562.872
1.0099	0.86748	1.0099	2714.855	2751.663
-1.09233	0.15287	0.91547	1340.053	1231.65
-1.10354	0.82641	0.90617	129.0422	119.6749
-1.08429	0.52261	0.92226	524.9999	490.8834
-1.04719	0.96732	0.95494	35.91756	35.12658
1.0997	0.45633	1.0997	1589.153	1750.026
1.09865	0.26397	1.09865	564.0527	621.2054
1.18633	0.01721	1.18633	2305.714	2745.326
-1.08033	0.30744	0.92564	643.1382	595.7249
1.23585	0.00511	1.23585	7686.532	9416.465
1.35647	0.00026	1.35647	8211.872	11304.36
1.81075	0.00654	1.81075	671.8517	1189.678
-1.16203	0.00765	0.86056	7282.612	6219.614
-1.21025	0.00022	0.82627	18250.79	15125.12
-1.05393	0.6913	0.94883	394.5198	374.7938
-1.01016	0.91179	0.98994	542.8454	539.4091
1.086	0.50271	1.086	324.67	351.6835
-1.06794	0.76929	0.93638	257.827	243.0806
1.08	0.62154	1.08	297.5762	317.8162
-1.05293	0.23853	0.94973	5328.85	5062.25
1.04811	0.67481	1.04811	535.5068	555.3982
-1.11442	0.63571	0.89733	286.3077	249.3402
-1.01237	0.78923	0.98778	4378.648	4332.541
1.39686	0.00105	1.39686	495.958	696.5353
-1.02559	0.74748	0.97505	906.6448	885.3516
-1.02081	0.68515	0.97961	1476.67	1445.361
-1.00249	0.96688	0.99751	1771.313	1777.861
1.0047	0.99051	1.0047	116.8985	118.197
1.00902	0.96933	1.00902	189.9331	192.7332
-1.07479	0.25095	0.93041	1582.105	1475.969

-1.05579	0.47016	0.94716	6253.612	5972.201
1.01089	0.88614	1.01089	900.9136	907.9987
1.27636	0.00004	1.27636	1534.45	1955.59
1.02754	0.70176	1.02754	770.1545	789.7331
-1.02268	0.66423	0.97782	1280.699	1251.233
-1.03372	0.48996	0.96738	2279.48	2204.418
1.41796	0.0007	1.41796	1288.88	1812.663
-1.19044	0.83102	0.84002	72.18422	60.55151
-1.38777	1.41E-10	0.72058	19825.44	14345.45
-1.119	0.10546	0.89365	3717.49	3303.791
1.08344	0.07621	1.08344	6556.038	7119.313
-1.02108	0.77206	0.97935	4289.539	4175.334
-1.11468	0.23299	0.89712	585.6641	527.1887
-1.01017	0.93487	0.98993	451.4468	452.0739
1.01775	0.9347	1.01775	283.9528	285.477
-1.06351	0.54186	0.94028	4961.541	4558.313
1.25147	0.22656	1.25147	196.688	248.4512
1.34522	0.13753	1.34522	185.2156	251.9746
-1.00899	0.85547	0.99109	7197.954	7150.773
1.1047	0.22352	1.1047	587.4336	649.3303
1.64364	0.00041	1.64364	685.1608	1119.169
1.01315	0.89258	1.01315	704.4466	718.6739
1.29305	0.00501	1.29305	909.9246	1176.514
1.29621	0.00003	1.29621	1390.281	1801.775
1.00153	0.98862	1.00153	610.9585	617.6769
1.25345	0.73589	1.25345	62.84489	79.46276
-1.05972	0.19386	0.94364	5311.449	5015.956
1.14565	0.08839	1.14565	10816.05	12620.36
-1.01802	0.82325	0.9823	1770.004	1739.674
1.0316	0.64264	1.0316	8512.269	8895.18
-1.65751	5.89E-14	0.60331	13198.59	7856.689
1.12943	0.29091	1.12943	3663.235	4248.087
1.02221	0.72323	1.02221	1915.487	1966.203
-1.15814	0.16579	0.86345	901.4122	778.8209
1.29191	0.00006	1.29191	6750.297	8654.565
1.12799	0.12747	1.12799	2206.197	2513.498
1.31878	0.17352	1.31878	284.1536	360.1204
1.01535	0.96219	1.01535	170.0104	174.5908
-1.09625	0.49276	0.9122	451.4687	417.8253
1.89272	4.30E-22	1.89272	1192.451	2250.567
1.00999	0.85562	1.00999	1666.948	1684.189
1.041	0.61905	1.041	1637.943	1710.334
-1.15263	0.1191	0.86758	2289.114	1958.436
1.02517	0.61391	1.02517	2562.651	2627.185
1.01461	0.88281	1.01461	592.4956	605.3552
-1.12604	0.60082	0.88807	285.4674	250.8987
-1.0501	0.49966	0.95229	1579.696	1504.214
-1.16839	0.60737	0.85588	199.9481	173.2865
1.0221	0.76505	1.0221	2048.188	2083.622
-1.09096	0.2655	0.91663	1668.006	1525.321
-1.03918	0.56329	0.96229	1546.482	1490.716
1.06919	0.19362	1.06919	6083.848	6534.654

-1.03964	0.58278	0.96187	813.6787	784.9638
1.00903	0.9208	1.00903	1482.563	1492.751
-1.60007	0.00019	0.62497	909.6947	575.0606
-1.01144	0.98946	0.98869	61.31033	60.89441
-1.06083	0.3625	0.94266	2957.261	2780.755
-1.09521	0.26311	0.91307	1642.113	1488.78
-1.00593	0.96512	0.9941	537.7315	534.5729
-1.12943	0.41504	0.8854	558.1671	489.67
-1.13842	0.79965	0.87841	99.17787	88.9463
1.02404	0.68053	1.02404	3521.554	3625.089
-1.04338	0.63979	0.95842	4469.21	4198.713
-1.45377	0.00728	0.68786	1093.662	758.5502
-1.0235	0.83345	0.97704	347.6469	339.3361
-1.05371	0.92249	0.94903	101.5847	98.48329
1.05525	0.47412	1.05525	2682.822	2802.614
1.30292	0.57982	1.30292	85.15895	109.4366
-1.31354	0.00932	0.7613	1045.111	799.1967
-1.03278	0.55619	0.96826	1560.034	1509.723
-1.01603	0.90916	0.98422	305.6682	302.0485
-1.32624	0.00094	0.75401	6714.274	5001.419
-1.02673	0.60139	0.97397	1960.171	1906.834
1.02938	0.90153	1.02938	222.67	229.4569
-1.24104	0.09403	0.80577	889.8499	728.2423
1.0757	0.48762	1.0757	613.1619	653.5044
1.2559	0.00267	1.2559	838.3522	1053.836
-1.0666	0.50894	0.93755	614.4382	571.8679
1.07979	0.70287	1.07979	209.0723	226.6284
-1.01428	0.84211	0.98592	2018.585	1994.917
-1.12198	0.11461	0.89128	4995.505	4402.478
-1.05055	0.97634	0.95188	29.1665	25.73194
1.31622	3.71E-07	1.31622	2692.185	3538.952
-1.04801	0.47471	0.95419	3854.025	3656.996
-1.18741	0.02829	0.84217	2642.934	2252.547
1.11092	0.53503	1.11092	247.6702	277.9835
1.00122	0.99832	1.00122	93.3658	92.92751
-1.00679	0.92847	0.99326	3349.378	3286.782
1.01382	0.95207	1.01382	193.204	195.9845
1.05281	0.52647	1.05281	843.8451	891.6488
-1.01707	0.9252	0.98321	273.5192	266.0549
-1.0276	0.93566	0.97314	105.1156	103.1406
1.20294	0.23888	1.20294	1425.374	1739.981
1.0246	0.92647	1.0246	147.1421	151.2848
1.06835	0.48015	1.06835	1825.521	1936.71
1.05672	0.54216	1.05672	622.4124	659.936
-1.30728	0.09457	0.76495	868.4924	664.886
1.15276	0.00792	1.15276	1703.255	1964.638
-1.0155	0.91978	0.98474	373.2523	368.4222
-1.00684	0.93944	0.99321	679.0069	671.1008
-1.36504	0.01275	0.73258	1389.072	1015.492
-1.01654	0.70154	0.98373	2983.571	2935.073
1.08196	0.66834	1.08196	261.9252	287.7867
-1.05999	0.55766	0.94341	951.545	906.8519

1.10186	0.39927	1.10186	321.3132	353.8457
-1.0176	0.68259	0.98271	2354.695	2314.051
1.02512	0.8575	1.02512	420.0228	435.4404
-1.17327	0.08215	0.85232	1262.403	1077.566
-1.08498	0.26209	0.92167	988.9448	913.4005
-1.65857	0.00987	0.60293	582.4684	364.8882
1.10453	0.50749	1.10453	322.7256	351.7681
-1.07777	0.25104	0.92784	1907.548	1784.84
1.02286	0.74698	1.02286	1049.401	1075.116
-1.00544	0.95801	0.99459	614.781	606.9365
-1.06986	0.1945	0.9347	3871.407	3610.636
-1.19997	0.0124	0.83336	1377.436	1146.152
-1.0057	0.97723	0.99433	280.6844	287.2354
-1.13731	0.17134	0.87927	1003.427	885.6851
1.2575	0.00919	1.2575	679.6873	851.1096
-1.02136	0.64182	0.97909	2167.594	2122.225
1.16351	0.04453	1.16351	745.353	864.5491
1.01912	0.90271	1.01912	603.6668	636.1301
-1.31854	0.00002	0.75841	2694.165	2054.371
1.02246	0.67309	1.02246	1521.383	1555.36
-1.05518	0.86915	0.94771	155.2212	147.6007
-1.0874	0.44471	0.91962	18994.78	16896.03
-1.05832	0.60972	0.9449	551.3749	520.7421
1.17575	0.56488	1.17575	141.9376	164.5731
-1.07028	0.52632	0.93434	715.7959	674.8972
-1.01849	0.80714	0.98184	792.704	780.7809
1.03702	0.67605	1.03702	3532.055	3672.09
1.01706	0.93437	1.01706	223.354	228.522
1.01051	0.87949	1.01051	16881.72	17130.8
1.10953	0.23725	1.10953	1128.97	1254.488
-1.05794	0.37175	0.94523	1790.167	1690.749
1.08543	0.56591	1.08543	400.8849	433.327
1.11994	0.06783	1.11994	7117.664	8027.646
1.04489	0.86873	1.04489	188.7385	191.5395
1.3593	0.00015	1.3593	1830.674	2506.639
1.05573	0.9467	1.05573	64.5242	65.82678
1.05209	0.54575	1.05209	681.1903	714.1732
1.01967	0.66386	1.01967	6466.154	6596.023
-1.01058	0.89182	0.98953	969.2788	961.4
1.06132	0.4756	1.06132	764.3514	808.7192
-1.02402	0.81868	0.97655	2445.581	2357.837
1.00316	0.96456	1.00316	1343.551	1346.365
-1.09141	0.18164	0.91624	1456.39	1333.006
-1.09456	0.52903	0.91361	391.7194	358.0532
1.07894	0.31311	1.07894	2038.341	2201.044
-1.0076	0.92832	0.99246	3752.461	3650.145
-1.04429	0.5425	0.95758	6931.96	6652.826
1.01908	0.81179	1.01908	961.7173	983.1417
1.13385	0.27492	1.13385	419.2385	471.4735
-1.13517	0.63187	0.88093	242.0311	207.3019
-1.04257	0.94571	0.95916	57.44174	54.71111
1.19701	0.0445	1.19701	818.9338	983.7365

-1.43242	1.88E-11	0.69812	8641.862	5996.534
-1.05346	0.53797	0.94926	1132.32	1077.553
1.32603	0.01279	1.32603	615.6177	807.5159
-1.05521	0.35612	0.94768	1713.862	1624.03
1.15861	0.07566	1.15861	4766.148	5431.237
-1.07886	0.49135	0.9269	359.9072	334.6295
1.07787	0.0764	1.07787	15906.78	17130.52
-1.06066	0.7576	0.94281	302.0096	291.9639
-1.14415	0.0068	0.87401	1838.009	1606.184
1.02547	0.84603	1.02547	759.8998	789.9124
1.02679	0.70362	1.02679	1426.682	1464.662
-1.1024	0.86648	0.90711	82.92598	73.45396
1.07746	0.15859	1.07746	4425.002	4771.194
-1.00312	0.98932	0.99689	307.4465	311.902
-1.0102	0.81591	0.9899	4410.979	4367.545
1.08443	0.44305	1.08443	500.2835	538.4883
1.12739	0.088	1.12739	1289.412	1453.28
1.01693	0.85928	1.01693	544.7396	552.3536
-1.13912	0.34966	0.87787	751.9103	656.5045
-1.03432	0.48661	0.96682	4640.606	4477.747
1.0022	0.99308	1.0022	303.1975	310.7188
1.04181	0.5889	1.04181	1125.057	1171.074
1.13188	0.41156	1.13188	490.4896	545.8688
-1.02009	0.86743	0.98031	371.6368	364.0704
-1.05635	0.33305	0.94666	1479.258	1400.121
-1.0809	0.44492	0.92516	1089.078	1010.538
-1.01061	0.86512	0.9895	1042.263	1030.868
-1.03528	0.53117	0.96592	3201.864	3086.226
-1.01459	0.94773	0.98562	276.6451	269.3066
1.02164	0.75802	1.02164	621.364	634.7183
1.08769	0.37495	1.08769	786.4486	853.301
1.34596	0.00211	1.34596	434.1946	585.5984
1.03813	0.77888	1.03813	783.7268	801.0844
1.13839	0.46124	1.13839	276.0275	308.8159
1.36111	0.00649	1.36111	532.0141	717.6021
1.07236	0.2527	1.07236	2360.542	2520.25
-1.03625	0.75075	0.96502	533.9242	520.4554
-1.05201	0.45954	0.95056	3040.943	2908.574
-1.26093	0.07158	0.79307	2642.798	2155.137
-1.07228	0.83501	0.93259	139.5055	130.5466
1.55572	0.00018	1.55572	2414.058	3772.102
-1.01672	0.83773	0.98355	510.1199	501.2129
-1.06869	0.192	0.93573	1740.759	1629.274
1.25043	0.54359	1.25043	80.21371	100.0227
1.20679	0.04385	1.20679	432.0238	520.4745
1.10055	0.20912	1.10055	1007.396	1101.679
-1.00125	0.99035	0.99875	1611.526	1626.525
-1.12765	0.15335	0.8868	1049.78	929.949
-1.007	0.91986	0.99305	1565.137	1554.293
-1.04499	0.94859	0.95694	77.24733	72.75235
1.00448	0.93337	1.00448	1688.44	1695.176
-1.206	0.07269	0.82919	5401.222	4312.479

1.00425	0.97897	1.00425	272.6497	276.5703
1.30222	0.02904	1.30222	2752.635	3483.412
1.03929	0.37722	1.03929	3256.511	3385.496
1.14564	0.54511	1.14564	190.6825	214.9963
-1.07736	0.69158	0.9282	329.2387	307.0072
-1.09547	0.8227	0.91285	108.8548	98.22758
-1.20238	0.10589	0.83168	26081.72	21691.77
-1.00331	0.97204	0.9967	912.0693	915.9623
-1.01732	0.84436	0.98298	1179.221	1168.471
1.16493	0.07952	1.16493	513.5928	596.2136
-1.21221	0.00068	0.82494	2303.327	1904.256
1.03042	0.57147	1.03042	1160.304	1195.641
1.05171	0.69292	1.05171	336.4327	353.8358
1.4553	0.72257	1.4553	38.32726	51.65973
-1.03123	0.557	0.96972	75465.05	72687.76
1.18302	0.01911	1.18302	3299.087	3957.384
1.01974	0.73524	1.01974	1794.882	1830.628
-1.01246	0.86778	0.98769	9504.289	9351.654
-1.12131	0.32456	0.89181	9357.094	7999.666
-1.09852	0.24358	0.91032	1021.761	932.0253
-1.18807	0.34205	0.8417	455.7186	380.515
1.07399	0.08452	1.07399	15229.68	16346.38
1.08465	0.77669	1.08465	137.6096	146.955
1.22153	0.0313	1.22153	3021.556	3726.448
1.16286	0.02133	1.16286	2232.768	2588.351
-1.02761	0.96938	0.97313	65.0913	65.1374
1.06405	0.37582	1.06405	4160.813	4384.061
-1.30409	0.02737	0.76682	895.3837	693.7689
1.02965	0.80197	1.02965	373.8581	382.5749
1.11433	0.78913	1.11433	123.6402	135.9683
-1.02608	0.94874	0.97458	142.6887	136.1037
1.22872	0.11422	1.22872	363.212	449.2316
1.06807	0.56856	1.06807	605.926	645.6457
-1.14176	0.31326	0.87584	411.8455	357.9159
1.07416	0.4649	1.07416	822.0212	879.1118
-1.18814	0.04481	0.84166	1113.67	939.6039
1.18175	0.10942	1.18175	672.9162	791.4512
-1.14259	0.39931	0.8752	414.8492	363.4983
-1.43024	5.82E-11	0.69918	2712.76	1892.091
1.04635	0.57707	1.04635	2478.756	2588.585
1.05147	0.6482	1.05147	2483.511	2614.964
-1.17637	0.03945	0.85008	48364.84	40062.69
-1.01711	0.89794	0.98318	541.3637	538.1832
1.21828	0.0332	1.21828	14480.25	16626.49
-1.08443	0.6823	0.92215	296.3337	273.6656
-1.49975	5.16E-08	0.66678	1000.854	666.8887
-1.01363	0.82377	0.98655	1285.059	1267.643
-1.00528	0.90397	0.99475	4734.418	4709.749
-1.07033	0.46659	0.9343	3026.467	2784.301
1.10496	0.40095	1.10496	477.085	522.6174
1.00672	0.9238	1.00672	4830.18	4903.639
-1.00572	0.9478	0.99431	1081.244	1084.24

1.09232	0.06022	1.09232	1659.044	1812.265
1.08396	0.11441	1.08396	2408.092	2615.281
-1.02857	0.7381	0.97223	533.4994	517.9379
-1.05778	0.28758	0.94537	6574.135	6247.564
1.0197	0.91261	1.0197	413.6014	426.5041
-1.16426	0.01416	0.85892	5270.585	4470.105
1.00965	0.93765	1.00965	348.9681	353.9665
1.00655	0.99302	1.00655	70.84113	72.72158
-1.17232	0.00866	0.85301	2199.205	1870.597
-1.157	0.16028	0.86431	2513.885	2195.052
1.09772	0.0948	1.09772	1777.238	1954.301
1.0103	0.84849	1.0103	8868.066	8958.518
1.04784	0.4602	1.04784	1637.803	1711.939
1.01041	0.90431	1.01041	940.9469	954.2087
1.20579	0.00317	1.20579	2146.007	2598.878
1.16238	0.24804	1.16238	304.476	351.6256
-1.17556	0.00377	0.85066	2026.825	1726.627
-1.09473	0.26628	0.91346	1101.565	1008.255
1.16069	0.0407	1.16069	1467.863	1706.214
-1.18728	0.41658	0.84226	295.5	248.3625
-1.00814	0.91852	0.99193	4002.74	3974.147
-1.06321	0.50678	0.94055	617.4131	577.3353
1.01427	0.81976	1.01427	1002.826	1017.884
-1.0556	0.80744	0.94733	239.9131	232.0884
-1.0566	0.43103	0.94643	1400.495	1323.599
-1.18238	0.00584	0.84575	2306.184	1945.954
1.13718	0.60736	1.13718	262.5937	301.4123
-1.02231	0.68845	0.97818	2197.959	2147.684
1.00093	0.99346	1.00093	441.6224	438.7613
1.22252	0.00004	1.22252	3555.969	4357.017
-1.08398	0.48695	0.92253	3766.501	3380.08
-1.09422	0.44313	0.91389	115535	109868.9
-1.00916	0.92577	0.99092	879.2853	864.0991
1.08241	0.271	1.08241	558.2356	603.6875
1.07832	0.58895	1.07832	309.1473	336.2507
-1.01372	0.92653	0.98646	308.9741	303.8605
1.09492	0.27354	1.09492	664.803	725.3528
1.01917	0.76337	1.01917	1657.913	1688.534
-1.0149	0.78258	0.98532	6864.738	6749.442
1.24881	0.00006	1.24881	1145.671	1430.714
1.15732	0.02888	1.15732	1438.769	1663.772
-1.11355	0.53943	0.89803	349.8222	313.6491
-1.08918	0.43692	0.91812	982.6868	907.1129
-1.08325	0.11601	0.92314	14286.43	13238.75
1.05011	0.27704	1.05011	2905.278	3049.926
-1.04462	0.50052	0.95729	8075.691	7810.225
-1.03665	0.95581	0.96464	72.02672	73.01054
-1.08696	0.06943	0.92	1932.672	1778.053
-1.0034	0.94243	0.99662	3355.152	3341.476
-1.13391	0.35503	0.88191	959.9679	856.0912
1.08846	0.28979	1.08846	882.179	962.6284
1.16221	0.27114	1.16221	461.3452	546.1522

1.07707	0.83266	1.07707	162.3592	162.3872
-1.06185	0.42124	0.94175	561.3023	528.4863
1.01433	0.92496	1.01433	555.1484	562.6076
1.01796	0.73172	1.01796	3883.308	3932.377
-1.06957	0.74495	0.93496	303.5706	281.1507
1.06962	0.75599	1.06962	204.1179	214.8411
1.01049	0.85196	1.01049	3961.707	4008.528
-1.03486	0.83404	0.96631	504.2246	486.1536
1.02755	0.77655	1.02755	6596.961	6763.209
-1.26862	0.01819	0.78826	2414.542	1884.612
1.07525	0.25522	1.07525	887.2032	953.6351
-1.00032	0.99687	0.99968	979.777	974.5088
1.11317	0.44366	1.11317	302.3002	335.2774
-1.40686	0.07604	0.7108	374.7323	265.8516
1.135	0.39583	1.135	346.3063	396.7329
-1.07144	0.45149	0.93333	993.6723	923.5766
-2.02659	4.19E-12	0.49344	1709.558	844.4356
1.43758	3.79E-16	1.43758	8034.422	11530.03
-1.05588	0.62455	0.94708	811.1641	774.9768
1.19682	0.01039	1.19682	690.2844	827.0004
-1.09256	0.73951	0.91528	163.052	149.2245
-1.08068	0.79543	0.92534	193.1505	179.0888
-1.00546	0.95718	0.99457	858.015	860.6955
-1.04414	0.72905	0.95772	382.0512	367.9763
-1.0426	0.53582	0.95914	810.8793	776.5537
1.19144	0.55177	1.19144	180.9306	219.1403
1.05648	0.67815	1.05648	449.5719	478.0607
1.07729	0.2847	1.07729	751.2709	811.8371
1.0477	0.50314	1.0477	764.6318	802.1709
1.17047	0.78668	1.17047	81.86434	97.7989
1.01236	0.90144	1.01236	672.4244	675.1609
1.20904	0.03849	1.20904	12343.38	15314.64
-1.22901	0.03806	0.81366	15328.77	12021.8
1.06512	0.50912	1.06512	622.246	660.4351
1.05222	0.38836	1.05222	25430.6	26990.57
-1.04773	0.93119	0.95444	97.68022	87.68398
-1.33777	0.06626	0.74751	1202.926	897.7667
1.21603	0.00005	1.21603	1672.987	2034.538
-1.04728	0.34822	0.95485	2697.89	2572.347
-1.01388	0.83419	0.98631	955.6769	942.1917
1.17031	0.1427	1.17031	1062.988	1245.74
-1.00121	0.98106	0.99879	2002.046	2000.235
-1.03233	0.53665	0.96869	1972.888	1911.238
-1.07197	0.72813	0.93286	264.4482	250.4457
-1.10793	0.18115	0.90258	2074.758	1886.366
1.19933	0.46531	1.19933	150.8187	179.4721
-1.06956	0.51353	0.93496	571.2091	537.5165
-1.00609	0.95525	0.99395	4486.808	4305.624
-1.00506	0.97666	0.99497	340.0642	336.887
-1.01631	0.97956	0.98395	51.53304	50.52135
-1.05198	0.50738	0.95059	1599.347	1513.894
1.23918	0.79454	1.23918	49.44818	62.51099

1.03956	0.85872	1.03956	214.2079	221.1205
-1.01991	0.72057	0.98048	2278.782	2239.811
1.01406	0.76601	1.01406	6065.933	6154.04
-1.00957	0.9677	0.99052	269.1993	272.2391
1.00739	0.91091	1.00739	4468.853	4504.896
1.07041	0.11694	1.07041	4803.924	5140.474
1.21799	0.07524	1.21799	531.5576	642.2753
1.09077	0.16762	1.09077	2271.271	2489.565
-1.097	0.02542	0.91158	72735.08	66365.64
1.15527	0.00938	1.15527	2301.896	2667.526
1.17083	0.01534	1.17083	10071.43	11928.61
-1.15862	0.44096	0.86309	277.1688	243.5946
1.11611	0.16958	1.11611	3060.114	3347.59
1.05823	0.74524	1.05823	372.4825	405.4404
1.2371	0.08813	1.2371	2302.284	2940.006
-1.58401	0.00045	0.63131	7730.391	4639.765
-1.0166	0.83719	0.98367	756.2251	747.1842
-1.00056	0.9909	0.99944	2431.437	2427.597
-1.10508	0.61022	0.90491	297.7297	270.8439
1.13587	0.14382	1.13587	811.8267	918.9589
1.18102	0.32593	1.18102	232.622	274.1437
-1.25196	0.00379	0.79875	1706.673	1356.186
-1.03118	0.89447	0.96977	189.1032	183.6715
-1.05059	0.80201	0.95184	210.1065	198.4628
-1.09683	0.67678	0.91172	219.1192	203.6491
1.00213	0.97359	1.00213	678.5955	679.7637
-1.04713	0.38259	0.95499	3147.413	3002.984
1.01959	0.66834	1.01959	3308.186	3370.959
-1.2856	0.00988	0.77785	1337.118	1040.433
1.0157	0.83292	1.0157	4874.293	4891.642
1.1015	0.44219	1.1015	380.8693	423.4249
1.14148	0.64574	1.14148	190.4155	221.7168
-1.02874	0.80369	0.97206	404.1708	392.9559
1.1494	0.90592	1.1494	35.94944	39.47882
-1.0345	0.60066	0.96666	1943.076	1887.542
-1.02979	0.88721	0.97108	254.935	252.2195
1.04893	0.65093	1.04893	912.506	962.6288
1.02922	0.77329	1.02922	548.4645	568.5657
-1.08932	0.10921	0.918	1180.933	1084.927
1.11304	0.16594	1.11304	1728.759	1921.422
-1.42067	1.30E-10	0.70389	1473.312	1037.099
-1.1339	0.0657	0.88191	2364.184	2070.129
-1.06373	0.52296	0.94009	737.6358	691.9909
-1.17673	0.27349	0.84981	408.0064	352.5612
1.40373	0.00006	1.40373	5982.775	8202.033
1.26065	0.16652	1.26065	245.3126	308.2228
1.05482	0.35459	1.05482	1125.616	1187.321
1.02169	0.73504	1.02169	1241.41	1266.344
-1.10032	0.37282	0.90882	3548.23	3161.68
1.03406	0.65924	1.03406	1742.526	1816.563
-1.05417	0.63624	0.94862	538.9409	509.6132
1.03144	0.69764	1.03144	888.791	918.6864

1.02169	0.69045	1.02169	1595.598	1630.632
-1.00131	0.98335	0.99869	2605.646	2598.537
1.11107	0.29427	1.11107	409.1814	453.939
1.18736	0.07615	1.18736	1250.476	1475.308
1.10595	0.26023	1.10595	775.4236	863.9147
1.03109	0.90736	1.03109	207.6909	216.3661
1.05255	0.61629	1.05255	519.4861	542.8333
1.09029	0.1732	1.09029	3558.154	3899.136
1.1132	0.35922	1.1132	711.4824	781.7517
1.01021	0.93804	1.01021	374.9639	382.6079
1.2355	0.01245	1.2355	924.2356	1133.086
-1.10777	0.38666	0.90272	513.863	466.27
-1.08046	0.20326	0.92554	1755.147	1624.441
1.30433	0.04849	1.30433	2136.765	2862.741
-1.00629	0.94925	0.99375	905.1312	905.0801
1.06992	0.58073	1.06992	489.6294	518.0164
1.26222	0.04087	1.26222	491.3866	624.4273
1.04365	0.71671	1.04365	441.5006	458.65
-1.07835	0.41844	0.92734	1795.453	1697.99
1.07557	0.58567	1.07557	1012.635	1080.705
1.02133	0.83885	1.02133	694.3333	714.5431
1.01977	0.91292	1.01977	262.3229	268.3687
1.09539	0.37014	1.09539	1257.753	1376.297
1.03525	0.72467	1.03525	706.2164	735.9517
1.11595	0.20731	1.11595	1089.435	1221.585
1.01215	0.90593	1.01215	1888.285	1945.027
1.26036	0.00093	1.26036	1440.048	1813.885
-1.38814	0.00001	0.72039	26451.99	18607.71
1.06026	0.45611	1.06026	919.5833	976.342
1.36066	1.08E-09	1.36066	1914.422	2604.9
-1.0998	0.47883	0.90925	2584.735	2265.587
1.04032	0.59902	1.04032	2242.626	2363.689
1.0147	0.83197	1.0147	5274.646	5356.274
-1.63995	0.05899	0.60977	286.7114	177.4958
1.00642	0.99554	1.00642	28.29263	29.18472
-1.24373	0.76278	0.80403	84.8896	66.80249
-1.11244	0.45651	0.89893	380.2542	343.7543
-1.11685	0.09381	0.89537	891.9282	797.0245
-1.14235	0.00647	0.87539	6986.547	6097.664
-1.10123	0.22909	0.90807	7404.622	6674.607
1.02193	0.75663	1.02193	2312.761	2368.604
-1.02893	0.62505	0.97189	1628.879	1585.048
-1.65094	6.49E-10	0.60572	4655.051	2773.439
1.25958	0.00182	1.25958	2212.707	2792.967
1.05671	0.3333	1.05671	1236.443	1306.032
-1.0393	0.61288	0.96219	3395.163	3293.715
1.07821	0.27083	1.07821	1478.257	1591.328
1.08696	0.63554	1.08696	335.7177	355.0481
-1.04531	0.50387	0.95666	2336.929	2239.354
-1.07744	0.33465	0.92812	3467.152	3178.471
1.05071	0.95992	1.05071	33.39034	35.05833
-1.03868	0.64717	0.96276	3276.545	3058.523

-1.10226	0.77836	0.90722	155.557	141.5386
-1.03084	0.5761	0.97008	1223.429	1187.603
-1.01505	0.83005	0.98518	2265.654	2219.479
1.05381	0.74242	1.05381	306.3684	327.2762
1.03229	0.5643	1.03229	1213.321	1252.021
1.22851	0.02917	1.22851	5119.528	6503.023
1.1587	0.32599	1.1587	477.3962	541.4227
1.06024	0.56001	1.06024	849.6472	906.5396
1.04914	0.55129	1.04914	1301.009	1363.904
1.00669	0.94821	1.00669	1410.147	1412.884
1.11873	0.34113	1.11873	1873.342	2119.097
1.01518	0.86997	1.01518	789.6019	807.3805
-1.01423	0.83466	0.98597	1473.166	1450.787
1.05078	0.3735	1.05078	2105.968	2212.305
-1.04719	0.53399	0.95494	1413.287	1346.91
1.04473	0.46759	1.04473	2267.027	2371.578
-1.19054	0.13707	0.83996	1138.426	962.0544
1.25216	0.05378	1.25216	339.4143	424.0049
-1.04607	0.28573	0.95596	4459.807	4262.759
-1.05178	0.64891	0.95077	737.7767	707.6292
-1.08007	0.54578	0.92587	542.8707	510.4081
1.10432	0.10124	1.10432	3288.229	3641.7
1.00499	0.9244	1.00499	5745.29	5808.352
-1.00988	0.84742	0.99022	1607.813	1591.781
1.75902	5.05E-20	1.75902	8013.087	13978.66
1.06257	0.34346	1.06257	803.3092	853.7991
-1.00755	0.93008	0.99251	6811.195	6922.88
1.00697	0.90427	1.00697	1914.561	1928.463
1.10088	0.55018	1.10088	221.2849	243.3199
-1.00257	0.97597	0.99744	867.3242	859.5936
1.01899	0.91335	1.01899	315.3651	320.408
-1.05059	0.34694	0.95184	4228.695	4027.188
1.00136	0.98347	1.00136	1227.016	1226.04
1.08356	0.1878	1.08356	12204.57	13371.65
1.19613	0.00103	1.19613	1505.713	1800.137
-1.00931	0.94234	0.99078	728.1353	732.4534
-1.1462	0.18084	0.87245	871.1259	766.1104
-1.00616	0.89414	0.99388	3860.206	3838.155
-1.0601	0.51888	0.94331	932.1791	883.1558
-1.38843	0.00077	0.72024	2463.336	1792.84
-1.01561	0.72882	0.98463	2307.311	2270.844
1.00123	0.99114	1.00123	555.1357	560.4454
-1.00704	0.88396	0.99301	3465.075	3439.906
1.01454	0.80904	1.01454	2665.355	2704.995
-1.06098	0.41855	0.94252	527.8502	497.4664
-1.06859	0.49554	0.93581	1010.926	952.9958
-1.1477	0.80558	0.8713	94.42409	82.57527
1.16139	0.263	1.16139	633.2368	722.7296
-1.36706	0.00014	0.73149	8253.302	5986.663
1.38063	3.61E-06	1.38063	779.4431	1077.577
-1.0045	0.9491	0.99552	2445.586	2433.928
1.02389	0.92344	1.02389	212.7589	218.795

-1.03598	0.47194	0.96527	3911.49	3785.836
-1.12797	0.56549	0.88655	373.3348	316.5232
1.21135	0.00103	1.21135	2415.034	2916.188
1.17423	0.10595	1.17423	418.8895	492.8658
-1.01062	0.84897	0.9895	1110.521	1100.236
1.08668	0.24742	1.08668	667.6871	725.3945
1.03313	0.63859	1.03313	4143.278	4238.16
1.11209	0.17095	1.11209	845.687	937.2454
-1.00054	0.99581	0.99946	818.7655	809.7216
1.01182	0.97344	1.01182	208.3434	230.2812
-1.07933	0.27607	0.9265	1545.648	1437.039
-1.45901	6.35E-08	0.6854	2873.697	1955.211
-1.11309	0.03348	0.8984	4820.802	4315.303
-1.06491	0.23136	0.93904	4188.375	3943.563
-1.36695	0.08548	0.73156	3000.512	2085.584
-2.21232	6.35E-32	0.45201	10775.54	4812.286
-1.0434	0.59537	0.95841	567.0831	543.2596
1.00383	0.98829	1.00383	197.9414	199.868
-1.00574	0.95721	0.99429	616.4031	618.6589
-1.09457	0.80282	0.9136	139.8856	132.9067
1.18066	0.55114	1.18066	139.7621	164.2025
1.4173	1.97E-12	1.4173	3769.66	5359.969
-1.31762	0.25492	0.75894	529.858	391.7748
-1.479	6.12E-16	0.67613	3302.208	2234.613
-1.03276	0.63906	0.96828	1762.342	1693.028
-1.28472	0.03266	0.77838	4284.728	3200.671
1.16338	0.5982	1.16338	156.1944	186.8001
1.12963	0.00966	1.12963	1698.005	1918.128
1.10635	0.096	1.10635	2990.746	3284.386
1.02792	0.84086	1.02792	455.9885	461.9479
1.29812	0.00008	1.29812	763.3008	990.7974
-1.13641	0.21849	0.87996	1856.551	1642.068
1.03394	0.62385	1.03394	1033.583	1071.169
-1.03548	0.82404	0.96574	323.6245	312.6697
-1.03582	0.78964	0.96542	702.8563	689.974
-1.0333	0.63984	0.96777	3391.27	3322.432
1.07795	0.42549	1.07795	4836.408	5329.534
1.12551	0.25948	1.12551	508.0745	568.7764
1.04897	0.86018	1.04897	157.0856	167.4633
1.11394	0.93202	1.11394	29.42945	33.31538
1.08378	0.86828	1.08378	79.13887	84.98436
1.00274	0.97597	1.00274	479.8096	482.0377
-1.05449	0.61467	0.94833	874.4008	832.1666
1.03692	0.61662	1.03692	2632.13	2742.437
1.10195	0.17393	1.10195	1886.378	2069.251
1.15167	0.72491	1.15167	104.696	118.7395
1.16172	0.17715	1.16172	1420.651	1666.531
-1.00507	0.92717	0.99496	2326.15	2314.165
-1.14324	0.05043	0.87471	1665.255	1454.366
1.05225	0.63974	1.05225	2170.681	2304.18
-1.43252	0.02866	0.69807	1212.011	861.3078
1.12639	0.11568	1.12639	953.9781	1076.114

1.27562	0.32313	1.27562	224.2085	270.3085
-1.23265	0.04468	0.81126	763.4707	625.453
1.021	0.61454	1.021	3693.972	3771.689
1.53409	7.04E-06	1.53409	835.8363	1284.603
1.00823	0.88986	1.00823	3393.362	3414.595
1.0804	0.28407	1.0804	1691	1825.888
-1.01151	0.87258	0.98862	806.9795	795.2743
1.03648	0.87403	1.03648	223.8071	230.9542
-1.00929	0.89399	0.99079	761.636	756.2977
1.0005	0.99247	1.0005	2663.084	2664.156
1.04922	0.40524	1.04922	1922.851	2019.802
-1.4808	1.20E-17	0.67531	3771.298	2548.092
-1.0607	0.45531	0.94277	737.6234	693.3909
1.24029	0.22614	1.24029	414.554	515.0975
1.1195	0.67526	1.1195	167.4435	183.7851
1.06356	0.5575	1.06356	1930.381	2099.432
-1.04491	0.59551	0.95702	4738.511	4437.077
1.00963	0.96329	1.00963	217.8369	223.6481
-1.01225	0.88728	0.9879	529.6176	524.5294
1.02737	0.80701	1.02737	407.0275	418.7973
-1.00671	0.90562	0.99334	6330.633	6326.142
1.1678	0.33164	1.1678	281.7481	331.3774
1.14218	0.14071	1.14218	893.8443	1017.827
1.11149	0.5096	1.11149	364.227	412.2867
-1.08497	0.73071	0.92168	265.12	252.3507
1.1747	0.0066	1.1747	3054.386	3563.584
-1.04796	0.42636	0.95424	3525.307	3364.409
1.03345	0.57693	1.03345	2127.177	2200.647
1.1112	0.27066	1.1112	979.0492	1091.158
-1.04245	0.66005	0.95928	953.9548	924.0311
1.08211	0.20258	1.08211	7034.711	7699.157
-1.08403	0.61139	0.92248	354.2839	328.1728
-1.19215	0.2049	0.83882	664.8983	556.0984
1.33481	2.73E-06	1.33481	2900.003	3878.359
-1.05871	0.36024	0.94455	4377.082	4107.055
-1.0244	0.67802	0.97618	1169.399	1141.789
-1.2002	0.06318	0.83319	13810.79	11213.2
1.14963	0.47928	1.14963	167.4476	192.3079
-1.15113	0.23057	0.86871	1422.299	1236.594
1.0141	0.96387	1.0141	134.5103	136.3322
1.08193	0.38612	1.08193	4321.686	4593.999
1.49252	2.11E-09	1.49252	6779.546	10271.38
1.11887	0.1909	1.11887	691.8486	770.3213
1.0361	0.80378	1.0361	278.6219	289.3905
1.04253	0.66784	1.04253	360.3	375.6003
1.03486	0.76695	1.03486	2637.967	2752.982
1.11864	0.11575	1.11864	1039.612	1162.09
-1.03798	0.63793	0.96341	939.5394	901.9301
1.10677	0.49386	1.10677	342.2026	376.7137
1.09229	0.32304	1.09229	3103.614	3285.22
-1.02615	0.58492	0.97451	6118.531	5956.346
-1.03531	0.82356	0.9659	436.4662	423.8083

1.01238	0.87773	1.01238	877.0751	883.1812
-1.04812	0.53386	0.95409	3988.152	3840.714
-1.02174	0.8756	0.97872	341.4292	337.3391
-1.1451	0.42967	0.87329	405.7667	357.2654
1.00768	0.90873	1.00768	624.4348	628.7787
1.23094	0.11043	1.23094	403.8065	503.9227
1.03617	0.71711	1.03617	1901.73	1959.617
-1.04635	0.3833	0.9557	3739.603	3563.138
1	1	1	22.31818	21.78741
-1.20624	0.00031	0.82902	2084.457	1728.938
1.12336	0.01819	1.12336	4967.45	5570.402
-1.06788	0.69984	0.93644	274.264	255.5316
-1.18312	0.1981	0.84522	807.0057	682.291
1.10703	0.06492	1.10703	1901.683	2102.938
-1.06326	0.36028	0.9405	1222.716	1152.837
1.06779	0.48999	1.06779	613.96	650.9186
1.08529	0.79733	1.08529	115.7912	126.8793
1.3009	0.02805	1.3009	3767.977	4799.959
1.10648	0.75293	1.10648	109.3842	120.0363
1.00897	0.88425	1.00897	793.0535	799.5342
-1.02144	0.74521	0.97901	12880.83	12441.97
1.12881	0.41335	1.12881	398.1524	444.8635
1.12443	0.39913	1.12443	358.1364	397.9814
-1.01098	0.8921	0.98914	1265.056	1252.279
-1.16608	0.01618	0.85757	2818.131	2421.971
-1.12214	0.39646	0.89116	473.8669	423.0494
1.24763	0.00011	1.24763	7736.182	9606.279
1.03387	0.85341	1.03387	236.3377	244.073
-1.11845	0.35371	0.89409	770.4692	687.607
-1.08447	0.28705	0.92211	2269.563	2118.815
1.08344	0.48587	1.08344	945.4235	1017.285
-1.0845	0.3792	0.92208	869.9613	796.6111
-1.07442	0.30749	0.93073	3207.977	2957.341
1.0605	0.48466	1.0605	1073.252	1134.191
1.36497	0.0141	1.36497	337.1154	456.3179
-1.30016	0.00984	0.76914	4697.975	3510.4
1.03555	0.57678	1.03555	5795.091	6085.509
-2.81461	0	0.35529	25250.77	9017.219
1.757	7.04E-06	1.757	612.965	1066.09
1.03466	0.61576	1.03466	1439.654	1485.75
1.05409	0.70453	1.05409	346.0963	360.8979
1.09856	0.12808	1.09856	1935.218	2125.853
1.41485	0.00065	1.41485	920.8608	1304.781
-1.19944	0.00868	0.83372	4664.268	3834.302
1.00684	0.89763	1.00684	6175.165	6221.294
-1.14189	0.20713	0.87574	811.0078	713.9454
-1.27169	0.00029	0.78635	1547.83	1218.811
1.01666	0.90074	1.01666	404.9874	416.3371
1.1424	0.00289	1.1424	5485.792	6259.162
-1.01747	0.82548	0.98283	817.6444	801.3356
1.00095	0.98584	1.00095	2490.222	2484.829
-1.17638	0.01941	0.85007	5691.203	4749.32

1.55861	0.00022	1.55861	617.3494	952.8851
-1.15685	0.03452	0.86442	3442.503	2985.216
1.28087	0.00452	1.28087	1452.289	1850.199
1.03477	0.63195	1.03477	865.4564	894.6223
-1.02252	0.86316	0.97798	619.3547	615.4825
-1.12874	0.18371	0.88595	823.5158	734.7446
-1.01274	0.88221	0.98742	722.8457	710.8732
1.11834	0.47151	1.11834	286.6645	316.9091
1.01906	0.70579	1.01906	7108.493	7247.121
-1.59518	0.04999	0.62689	407.0739	267.243
1.11752	0.1177	1.11752	4739.49	5224.101
1.02347	0.97808	1.02347	60.82145	61.53414
-1.5837	0.03813	0.63143	278.2579	179.1977
-1.0668	0.52421	0.93738	865.411	817.6724
-1.03627	0.70906	0.965	463.0405	448.4869
-1.04887	0.67091	0.95341	772.3434	743.9611
1.03034	0.7221	1.03034	558.6641	574.1627
1.00619	0.94666	1.00619	875.7269	881.7737
-1.06827	0.59614	0.93609	515.5477	484.7382
1.01562	0.85294	1.01562	2002.814	2017.513
1.0131	0.88097	1.0131	587.4833	593.5002
1.05752	0.44175	1.05752	1610.062	1712.347
-1.02823	0.71458	0.97255	1318.134	1287.234
1.15034	0.06071	1.15034	1229.142	1415.928
1.00751	0.87607	1.00751	1471.731	1483.793
-1.12219	0.00814	0.89112	3425.644	3052.179
1.31282	0.00292	1.31282	1028.258	1352.249
1.0327	0.5564	1.0327	1098.435	1134.754
1.23889	0.00899	1.23889	614.4483	759.8455
-1.09473	0.0637	0.91347	10206.17	9330.912
-1.01551	0.91578	0.98473	401.929	394.661
1.12296	0.71054	1.12296	142.3347	155.3283
1.00979	0.9306	1.00979	3890.633	3802.731
1.02667	0.84738	1.02667	449.5788	464.4205
-1.05233	0.51673	0.95027	4311.755	4042.642
1.36654	0.01483	1.36654	878.4501	1189.699
-1.01363	0.89135	0.98656	488.8683	482.4418
1.00135	0.98984	1.00135	543.6242	548.8485
1.03103	0.67452	1.03103	638.9428	657.7302
1.20229	0.01454	1.20229	614.7516	739.3539
-1.01807	0.8017	0.98225	1739.444	1688.997
-1.06261	0.65759	0.94108	804.4359	769.7726
1.09191	0.23856	1.09191	1266.525	1377.173
-1.00835	0.97826	0.99172	124.8851	124.0624
-1.11136	0.1795	0.8998	892.7265	806.5432
-1.04632	0.77038	0.95573	515.9265	495.1499
1.14978	0.06159	1.14978	999.0945	1147.749
1.05067	0.97767	1.05067	25.5287	25.80354
1.089	0.04961	1.089	3082.237	3355.913
1.06611	0.38016	1.06611	4509.079	4784.188
1.03126	0.65843	1.03126	901.7922	931.6227
-1.18215	0.65045	0.84592	139.3969	117.3504

1.11631	0.03393	1.11631	1955.433	2184.149
-1.0061	0.99088	0.99394	102.8568	100.2806
1.17151	0.6788	1.17151	104.2292	125.5248
1.05935	0.49933	1.05935	580.5914	617.098
1.007	0.98278	1.007	117.1801	119.3037
1.12448	0.08829	1.12448	737.6137	831.2627
-1.07994	0.62346	0.92598	314.6096	293.9129
1.17404	0.14732	1.17404	888.3378	1029.465
-1.02878	0.5396	0.97202	1493.86	1453.337
-1.01252	0.85559	0.98764	1719.313	1705.46
-1.02091	0.74314	0.97952	1109.916	1086.241
-1.34555	3.49E-08	0.74319	2230.611	1659.799
1.02323	0.76932	1.02323	2892.432	2945.02
1.14307	0.0074	1.14307	4388.787	5029.168
1.05787	0.78517	1.05787	201.1763	212.204
1.03243	0.66695	1.03243	1571.905	1614.957
-1.01646	0.84144	0.9838	667.957	660.0457
1.0752	0.26351	1.0752	964.2694	1037.184
1.00992	0.86436	1.00992	4590.607	4653.742
-1.02093	0.88093	0.9795	341.772	334.7499
-1.12775	0.06279	0.88672	35106.91	31580.54
1.02679	0.83568	1.02679	621.9937	628.4143
1.02641	0.84716	1.02641	290.6734	297.6655
1.08471	0.52878	1.08471	405.4678	444.6933
-1.1928	0.46434	0.83837	229.8808	198.3785
-1.27337	0.74501	0.78532	81.30751	66.55146
-1.09322	0.37452	0.91473	7206.659	6403.128
1.173	0.1686	1.173	453.3439	526.8163
1.09269	0.03651	1.09269	5469.983	5975.146
1.01607	0.85465	1.01607	3229.967	3242.42
1.03211	0.59332	1.03211	2818.888	2924.035
-1.47258	0.00016	0.67908	12200.67	8052.422
1.19703	0.57294	1.19703	190.6007	239.7165
-1.08291	0.40234	0.92344	1032.851	955.5299
-1.04156	0.75967	0.9601	956.7166	925.2725
1.01119	0.96228	1.01119	208.6536	210.2193
1.16744	0.09322	1.16744	1101.77	1290.974
-1.03278	0.84429	0.96826	350.0263	337.8028
1.00505	0.9367	1.00505	740.9231	744.9023
1.06486	0.63065	1.06486	379.843	408.7213
-1.0086	0.91435	0.99148	706.1513	699.9348
-1.07466	0.20863	0.93053	1592.699	1479.547
1.09184	0.72484	1.09184	161.014	175.7088
1.01712	0.83308	1.01712	1271.124	1286.531
1.01685	0.85704	1.01685	520.6463	528.8729
1.08418	0.18886	1.08418	1692.437	1832.183
-1.0323	0.75958	0.96871	6062.288	5793.194
-1.00164	0.96895	0.99836	2837.426	2832.843
-1.04313	0.81177	0.95865	226.6325	216.0182
1.04088	0.58305	1.04088	2085.404	2178.669
-1.03627	0.39854	0.965	5236.749	5053.442
1.03958	0.61172	1.03958	1355.026	1406.317

1.02745	0.62758	1.02745	1654.619	1700.443
1.00926	0.9392	1.00926	396.7616	398.395
-2.00255	0.00534	0.49936	809.2778	415.317
-1.03073	0.60875	0.97018	980.3729	949.9025
-1.19423	0.2677	0.83736	397.5095	339.0736
-1.19405	0.28977	0.83749	417.1473	347.1123
-1.01615	0.85345	0.9841	459.1092	451.5468
1.0021	0.99704	1.0021	94.16568	96.74486
1.01771	0.93428	1.01771	227.8743	227.9367
1.00886	0.89495	1.00886	1175.875	1186.856
1.11982	0.34399	1.11982	501.4395	567.5414
-1.00043	0.99789	0.99957	426.7524	430.2273
-1.16243	0.0848	0.86027	3920.705	3318.024
-1.1209	0.59352	0.89214	210.6544	188.532
1	1	1	25.05433	20.97662
1.17494	0.33114	1.17494	466.378	549.8389
1.22532	0.00079	1.22532	2434.376	2996.667
-1.26662	0.09606	0.7895	967.1998	771.6836
-1.07601	0.47232	0.92936	689.9955	646.9188
-1.13347	0.09851	0.88224	1459.38	1292.517
-1.67212	2.32E-07	0.59804	7074.199	4109.93
-1.13345	0.38789	0.88226	381.3945	336.3704
-1.03481	0.69136	0.96636	789.5675	758.7706
-1.12765	0.30079	0.8868	11267.52	10300.65
1.09715	0.55268	1.09715	402.7128	431.3913
-1.03162	0.84385	0.96935	310.1043	304.5212
1.01468	0.84118	1.01468	1258.224	1274.936
-1.42503	0.006	0.70174	8246.643	5505.36
-1.04992	0.69429	0.95246	584.4782	564.9326
-1.01352	0.86276	0.98666	615.2477	606.3603
1.03612	0.81201	1.03612	311.9471	320.0429
-1.09187	0.93555	0.91586	48.5429	42.64202
-1.03345	0.68283	0.96763	1616.779	1557.923
-1.02836	0.74759	0.97242	561.2455	545.3569
1.04052	0.46763	1.04052	3829.885	4008.857
-1.0539	0.36809	0.94886	3003.898	2866.417
1.23541	0.00398	1.23541	867.3184	1068.14
-1.18236	0.01918	0.84577	968.9772	822.1567
-1.14198	0.20108	0.87567	7344.327	6256.607
1.38498	0.00007	1.38498	1020.428	1417.232
1.02461	0.80645	1.02461	461.2874	470.1917
1.0641	0.58193	1.0641	2950.571	3186.731
1.07756	0.83156	1.07756	119.6052	125.9696
-1.10392	0.3319	0.90586	916.5363	838.5863
-1.01411	0.8417	0.98609	2669.874	2639.198
-1.0401	0.43791	0.96145	2923.817	2812.09
1.02574	0.8669	1.02574	222.088	227.4561
-1.04609	0.60178	0.95594	840.5343	808.9455
1.11252	0.54207	1.11252	336.1589	363.8078
1.03678	0.44431	1.03678	2959.875	3070.919
1.06855	0.2599	1.06855	2744.175	2919.452
-1.0495	0.68691	0.95284	400.7883	384.8317

1.07918	0.2198	1.07918	12152.89	13151.25
1.01722	0.90668	1.01722	482.817	481.0719
-1.05605	0.67541	0.94693	484.1438	457.681
-1.28958	0.00002	0.77545	8181.306	6361.25
-1.07755	0.85589	0.92803	136.9776	127.524
-1.04583	0.53653	0.95618	983.4955	938.6307
-1.1259	0.88683	0.88818	67.70451	62.75456
1.02727	0.61028	1.02727	1599.655	1643.696
1.57792	6.15E-14	1.57792	29813.74	47386.52
-1.07018	0.56568	0.93442	1420.176	1315.613
1.10451	0.33656	1.10451	8496.258	9714.524
1.1863	0.08286	1.1863	3073.674	3674.558
-1.17831	0.17585	0.84867	995.3115	854.3697
-1.00696	0.91403	0.99309	5878.626	5845.457
-5.02552	2.07E-15	0.19898	1147.254	231.5863
-1.00409	0.96727	0.99593	795.1938	796.5237
1.02855	0.64207	1.02855	2037.882	2090.384
-1.77508	1.87E-06	0.56335	580.6194	329.6805
1.04513	0.5474	1.04513	1080.372	1129.479
1.00087	0.98784	1.00087	1673.572	1677.28
-1.0951	0.17168	0.91316	1176.238	1073.732
-1.02801	0.90771	0.97276	195.702	190.273
1.00712	0.88971	1.00712	3117.004	3149.517
1.00069	0.99223	1.00069	2919.502	2923.39
1.05741	0.53873	1.05741	643.5866	676.9835
-1.12558	0.17427	0.88843	1598.439	1419.198
1.45788	4.30E-06	1.45788	882.5812	1286.966
1.05169	0.5831	1.05169	1795.684	1913.691
1.00296	0.97896	1.00296	306.5029	307.3491
-1.00979	0.92532	0.99031	624.379	623.2793
-1.07084	0.44143	0.93385	596.5066	559.8351
1.0623	0.38792	1.0623	10004.72	10620.69
-1.00105	0.99349	0.99895	481.8917	486.4561
1.02103	0.61893	1.02103	5369.469	5480.757
1.04325	0.75203	1.04325	395.7116	415.8967
-1.00126	0.97958	0.99874	4489.213	4489.415
-1.29291	0.00359	0.77345	1361.675	1058.82
1.03038	0.49517	1.03038	3205.399	3302.752
-1.00446	0.98321	0.99556	155.3124	154.8608
1.05556	0.26302	1.05556	3717.944	3930.227
-1.10989	0.44932	0.90099	612.8213	549.0689
-1.01011	0.92544	0.98999	537.7706	527.6152
-1.08792	0.40368	0.91919	965.4536	897.6664
1.16898	0.02917	1.16898	3525.675	4192.875
-1.02187	0.6578	0.9786	4187.224	4101.329
1.1042	0.44208	1.1042	60291.93	69307.23
1.11862	0.68248	1.11862	202.1357	223.5454
1.28925	2.69E-09	1.28925	29152.27	37614.09
-1.14678	0.00791	0.87201	7301.584	6326.519
1.01052	0.88353	1.01052	1874.136	1897.125
-1.02556	0.95327	0.97508	129.2767	123.0081
-1.04099	0.53638	0.96062	1429.81	1379.759

1.40914	0.60697	1.40914	64.52062	84.73867
1.08866	0.37614	1.08866	521.2189	565.5641
-1.02234	0.84293	0.97815	681.974	660.0913
1.09072	0.31341	1.09072	755.3032	819.3721
1.25267	0.00463	1.25267	743.4645	928.405
-1.17918	0.05347	0.84805	3450.189	2880.933
-1.05051	0.40654	0.95192	3151.316	2979.66
1.12508	0.07022	1.12508	989.9236	1114.262
1.28464	0.1337	1.28464	386.3087	509.9261
1.16787	0.1928	1.16787	374.4175	435.3624
-1.03919	0.53189	0.96229	1595.688	1533.241
1.05086	0.73988	1.05086	272.448	285.8684
1.07093	0.38586	1.07093	3113.524	3415.13
1.03746	0.67917	1.03746	567.9952	591.3228
1.08284	0.12037	1.08284	23390.88	25470.71
-1.01354	0.84206	0.98664	613.6975	605.8041
1.03919	0.61505	1.03919	1186.437	1233.437
1.05902	0.43483	1.05902	1820.988	1935.241
-1.03724	0.69099	0.9641	471.2535	454.6307
1.02119	0.80049	1.02119	895.5358	909.9988
1.08245	0.29024	1.08245	849.5705	921.3502
-1.17329	0.54202	0.8523	238.0395	212.6781
1.32983	0.00215	1.32983	753.3074	997.2799
-1.0585	0.83529	0.94473	218.3685	208.8506
1.01511	0.97104	1.01511	113.1493	114.6457
1.08329	0.9147	1.08329	60.02205	64.55246
-1.66344	2.22E-11	0.60117	10360.77	6117.629
-1.15217	0.80056	0.86793	105.5899	95.36725
1.50518	0.00005	1.50518	1582.693	2410.515
-1.17069	0.01555	0.8542	34180.05	28692.34
1.2731	0.01882	1.2731	914.3354	1158.524
1.06353	0.57287	1.06353	976.5895	1029.533
1.01204	0.87988	1.01204	1812.67	1837.581
1.12645	0.00454	1.12645	66172.26	74630.41
-1.13297	0.18126	0.88263	2218.421	1934.597
1.07061	0.8486	1.07061	98.62324	105.5824
-1.03979	0.68069	0.96173	555.2047	533.7852
1.02887	0.61634	1.02887	1436.906	1476.525
1.00686	0.94713	1.00686	555.0767	562.9707
-1.07085	0.76	0.93383	289.3375	266.0311
-1.2645	0.01148	0.79083	913.6389	727.0491
-1.00275	0.98462	0.99726	583.8372	577.5267
-1.88537	0.0002	0.5304	2210.843	1156.682
-1.14821	0.12903	0.87092	1445.896	1258.304
1.03449	0.91524	1.03449	171.3341	175.0783
1.00987	0.97112	1.00987	217.3593	223.6543
-1.11101	0.02301	0.90008	3001.657	2701.166
1.07561	0.43122	1.07561	3123.022	3322.731
-1.20394	0.48098	0.83061	238.3178	195.5056
-1.02732	0.76848	0.97341	584.4466	566.7139
1.11662	0.30619	1.11662	472.1714	523.2413
-1.00829	0.91075	0.99178	1331.168	1315.892

1.63722	0.00182	1.63722	372.363	628.0149
-1.30444	0.0948	0.76661	570.019	439.9847
-1.16328	0.71063	0.85964	145.2332	127.2154
1.04002	0.88191	1.04002	188.4281	200.2595
-1.18888	0.00396	0.84113	1805.58	1523.336
1.0277	0.86201	1.0277	212.4885	218.8337
-1.05831	0.53018	0.9449	507.8191	481.1979
-1.62785	0.01378	0.61431	309.5306	190.8174
1.01939	0.95243	1.01939	139.0833	145.6718
-1.15651	0.01626	0.86467	2633.518	2284.444
1.03517	0.63131	1.03517	1375.955	1421.632
1.319	0.01427	1.319	761.5821	1011.28
-1.05748	0.37734	0.94564	1392.459	1317.006
-1.11212	0.91999	0.89919	50.12177	41.65276
1.20735	0.31804	1.20735	213.4112	256.3795
-1.03299	0.76548	0.96806	626.941	606.7308
-1.19787	0.01761	0.83482	963.8091	805.7075
-1.18782	0.0319	0.84188	3245.434	2767.469
1.02091	0.86301	1.02091	477.8109	483.6462
-1.89777	2.58E-42	0.52693	7090.416	3731.9
-1.02712	0.75298	0.9736	797.0818	781.1075
1.08804	0.45431	1.08804	450.2886	486.1132
1.05549	0.50374	1.05549	3979.202	4107.343
-1.1084	0.44883	0.9022	490.5836	443.0308
-1.42949	8.59E-09	0.69955	1805.75	1251.605
-1.04713	0.77162	0.95499	623.1973	616.6805
1.03644	0.93523	1.03644	119.2006	124.0624
-1.10043	0.30901	0.90874	1113.584	1012.328
1.07655	0.5915	1.07655	519.3963	548.0593
1.02298	0.67893	1.02298	4436.187	4544.756
1.05911	0.4258	1.05911	1576.277	1666.791
1.0119	0.81892	1.0119	1924.14	1946.12
1.0033	0.94121	1.0033	4124.899	4138.312
1.21186	0.17563	1.21186	233.8655	282.8839
-1.04642	0.72232	0.95564	297.551	285.0517
1.05313	0.42473	1.05313	1421.992	1496.851
1.05747	0.54998	1.05747	964.6503	1015.116
1.02159	0.89405	1.02159	289.3889	295.7892
1.08379	0.59173	1.08379	342.4575	376.6733
1.03301	0.87169	1.03301	253.8284	261.3021
-1.01159	0.81003	0.98854	4730.803	4671.244
1.08594	0.54996	1.08594	464.9086	495.7002
1.23154	3.39E-06	1.23154	3305.592	4073.01
-1.00579	0.97692	0.99424	182.5803	181.0217
-1.14248	0.24169	0.87529	635.0586	557.8375
-1.08008	0.40836	0.92586	469.5808	435.4067
1.03794	0.45415	1.03794	5235.974	5429.033
1.00035	0.99969	1.00035	55.64739	57.21312
-1.00868	0.90288	0.99139	2070.532	2053.435
1.31134	0.03442	1.31134	432.8303	563.8164
-1.41004	0.07886	0.7092	386.2569	280.161
-1.00739	0.94903	0.99267	740.2629	742.9367

-1.23503	0.01376	0.8097	20436.68	16753.68
1.04438	0.77608	1.04438	234.316	245.3749
-1.15315	0.40222	0.86719	565.7058	484.6985
-1.02528	0.83482	0.97534	895.0214	882.6024
1.19882	0.00415	1.19882	3158.297	3771.302
-1.27917	0.01591	0.78176	625.2006	486.8829
-1.17347	0.0814	0.85217	589.4761	500.5814
1.22446	0.08917	1.22446	1109.869	1359.122
1.27801	0.59357	1.27801	92.85728	126.5448
1.0172	0.84815	1.0172	695.2042	710.4162
1.02212	0.88181	1.02212	448.2419	468.1379
-1.03566	0.78921	0.96557	419.6151	409.9269
1.14304	0.53218	1.14304	297.8166	324.3463
1.12493	0.82044	1.12493	100.5126	110.1037
-1.09261	0.7076	0.91524	314.4694	282.8168
1.02081	0.74238	1.02081	7007.616	7166.942
1.27319	0.77813	1.27319	36.06097	47.05117
1.09121	0.09099	1.09121	1499.003	1635.988
-1.29213	0.00155	0.77392	938.5467	729.6485
-1.11429	0.23549	0.89743	1749.758	1576.227
1.10407	0.45164	1.10407	402.2378	438.8178
-1.24688	0.10452	0.802	846.4465	690.2584
-1.03181	0.93835	0.96917	143.6359	145.4896
1.00073	0.99765	1.00073	217.3441	219.2715
1.06975	0.25531	1.06975	3308.415	3551.859
1.01056	0.90387	1.01056	813.6479	827.8037
-1.08146	0.78333	0.92468	168.9076	156.1496
1.0437	0.62815	1.0437	1119.738	1167.43
-1.16177	0.39952	0.86076	330.1547	283.897
-1.0507	0.88512	0.95174	134.9981	128.9446
-1.02064	0.7384	0.97978	1826.516	1788.36
1.14259	0.12353	1.14259	939.3056	1076.918
1.11109	0.0965	1.11109	1101.927	1223.316
-1.02333	0.79185	0.9772	489.2447	477.2947
1.31418	1.31E-07	1.31418	11567.42	15095.38
1.00375	0.96203	1.00375	1563.468	1571.092
1.01393	0.96739	1.01393	164.8363	164.9672
1.35163	0.00008	1.35163	815.6803	1103.267
-1.03786	0.57838	0.96352	1300.542	1248.401
1.38219	0.00008	1.38219	666.9954	924.5164
-1.03057	0.68476	0.97033	1001.177	976.8937
-1.01807	0.78855	0.98225	3551.773	3503.756
-1.24693	0.03358	0.80197	1072.713	865.8175
1.12906	0.06412	1.12906	1200.053	1358.418
1.42369	3.37E-08	1.42369	1962.072	2790.8
-1.3968	1.58E-07	0.71592	43267.77	30664.53
-1.05191	0.57731	0.95065	1241.18	1163.576
-1.49034	0.00152	0.67099	4956.588	3269.435
1.15493	0.13066	1.15493	579.5267	664.7627
-1.02811	0.63463	0.97266	6811	6604.835
-1.59811	0.00054	0.62574	759.5444	483.057
1.07214	0.83448	1.07214	160.5126	173.4717

-1.01082	0.89792	0.9893	738.2541	728.4918
1.06445	0.74414	1.06445	386.7385	428.8576
-1.0739	0.2963	0.93119	804.0416	750.0281
-1.03838	0.67326	0.96303	864.5532	827.2583
-1.02425	0.61656	0.97633	12316.52	12026.64
1.06814	0.54816	1.06814	702.307	756.3925
1.07513	0.16548	1.07513	4156.885	4470.468
1.03711	0.49963	1.03711	2401.823	2495.85
1.22415	0.00035	1.22415	1333.66	1633.398
-1.11968	0.14316	0.89311	957.5756	853.4544
-1.42302	0.00987	0.70273	831.8032	593.7235
-1.17664	0.19045	0.84988	713.8223	615.3658
-1.05545	0.80663	0.94747	290.6331	270.7921
-1.05973	0.32157	0.94363	1336.337	1260.851
1.10233	0.35173	1.10233	2424.779	2676.35
-1.26239	7.97E-06	0.79215	2508.032	1989.723
-1.65049	2.30E-10	0.60588	11320.14	6700.213
-1.00768	0.96054	0.99237	321.3931	317.3565
-1.24486	0.14183	0.80331	900.3254	737.3184
-1.11993	0.60737	0.89291	324.6225	280.6522
-1.16142	0.03729	0.86101	5011.807	4379.545
1.00425	0.94713	1.00425	2781.875	2792.228
-1.04431	0.50661	0.95757	910.4789	869.7283
1.00216	0.9749	1.00216	1243.055	1248.427
-1.01602	0.83	0.98423	1898.494	1855.45
-1.21065	0.38935	0.826	297.0877	242.6394
1.01656	0.95728	1.01656	140.5584	142.7587
-1.04876	0.64724	0.95351	813.9218	783.6378
1.06811	0.45975	1.06811	635.025	680.799
-1.00478	0.9731	0.99524	378.9246	376.9525
-1.04346	0.81687	0.95835	385.6427	365.3758
1.03073	0.97014	1.03073	62.24286	64.54854
1.04414	0.43966	1.04414	1258.457	1314.439
-1.1271	0.49244	0.88723	468.4414	403.6457
1.02504	0.66211	1.02504	2084.469	2134.088
-1.00228	0.95913	0.99773	3417.066	3410.013
1.03888	0.85032	1.03888	256.5295	260.3904
1.08477	0.62085	1.08477	205.9268	223.9314
-1.27176	0.40658	0.78631	237.1621	181.9267
1.04844	0.33882	1.04844	6058.299	6376.797
-1.02622	0.85002	0.97445	354.3827	344.4033
1.30473	0.00293	1.30473	2695.768	3447.749
-2.55931	0.2298	0.39073	70.95407	27.59406
1.10634	0.14245	1.10634	700.6893	774.5118
-1.22135	0.00714	0.81876	2991.296	2444.701
1.17036	0.09985	1.17036	15918.63	19053.34
1.00943	0.95469	1.00943	288.5909	295.0339
1.02928	0.64095	1.02928	948.0807	977.6762
-1.34627	0.09924	0.74279	646.4391	488.3528
-1.08833	0.33579	0.91884	2469.778	2276.469
1.13374	0.17578	1.13374	3298.031	3722.96
1.86261	0.02577	1.86261	159.0024	282.9868

-1.03196	0.84289	0.96903	266.179	260.1163
1.19753	0.05909	1.19753	4350.841	5112.819
1.02891	0.83709	1.02891	341.3461	347.7932
1.07295	0.53563	1.07295	740.9374	800.9925
1.5428	0.00261	1.5428	697.6287	1061.276
1.0676	0.51581	1.0676	406.0348	432.7183
-1.17863	0.01775	0.84844	5247.854	4408
1.20515	0.82572	1.20515	49.74662	57.35797
1.18472	0.01938	1.18472	1646.7	1950.98
1.16259	0.37816	1.16259	2464.003	2999.636
1.06225	0.23856	1.06225	1565.152	1662.35
-1.07541	0.42252	0.92988	708.8366	662.3621
-1.04384	0.89114	0.958	185.2475	168.3136
1.27974	0.20461	1.27974	215.6179	272.2216
-1.01243	0.9163	0.98772	568.1799	562.9137
1.06187	0.43189	1.06187	825.0581	878.2341
1.09957	0.15905	1.09957	767.7464	845.4576
1.06237	0.28752	1.06237	7208.475	7709.811
-1.10098	0.0833	0.90829	3709.789	3362.465
1.01209	0.83532	1.01209	5942.603	6017.082
1.28289	0.01018	1.28289	1258.338	1612.422
1.50517	7.80E-06	1.50517	594.1603	889.6879
-1.26676	0.14463	0.78942	1791.722	1411.756
1.08213	0.5796	1.08213	320.4677	343.3884
1.05376	0.53301	1.05376	458.234	483.054
1.0047	0.98792	1.0047	165.5676	167.3495
-1.08296	0.26254	0.92339	648.5094	598.1382
1.08454	0.4029	1.08454	780.7991	851.6035
1.08546	0.65867	1.08546	534.1871	579.6935
1.12448	0.01339	1.12448	11072.93	12414.57
1.46755	0.0008	1.46755	250.559	367.4929
1.03387	0.9532	1.03387	63.3091	66.24081
-1.00574	0.96805	0.99429	290.2078	288.5797
-1.0411	0.60765	0.96053	746.0073	716.3119
1.01157	0.80174	1.01157	3266.361	3303.952
-1.04439	0.61068	0.9575	1654.875	1590.397
1.09205	0.05686	1.09205	3986.461	4344.805
1.50758	1.33E-21	1.50758	23464.85	35395.31
-1.12187	0.03278	0.89137	1558.851	1389.615
1.12542	0.74605	1.12542	124.4864	139.3073
1.10424	0.46246	1.10424	312.9028	343.3708
-1.61431	1.15E-06	0.61946	4675.456	2829.102
-1.00454	0.94423	0.99549	876.4009	871.7382
-1.03726	0.43152	0.96408	1604.52	1547.094
1.04854	0.46552	1.04854	5323.502	5614.951
1.18891	0.16267	1.18891	446.0898	523.6745
1.06122	0.67667	1.06122	361.8469	386.8498
1.08632	0.05061	1.08632	3508.219	3811.404
-1.15395	0.00586	0.86659	1999.469	1731.59
-1.0003	0.99515	0.9997	1860.355	1860.107
1.08069	0.67458	1.08069	224.9773	242.4495
-1.07733	0.46134	0.92822	796.5477	747.053

-1.3634	0.00043	0.73346	2702.487	1953.942
-1.0459	0.66407	0.95611	535.927	513.0725
-1.03298	0.73123	0.96807	542.4467	527.3478
1.15915	0.84465	1.15915	64.77751	77.6322
-1.1082	0.3777	0.90237	2003.235	1789.004
1.05002	0.53485	1.05002	732.946	770.657
-1.08511	0.96516	0.92157	25.45215	22.95327
-1.0232	0.70635	0.97732	270049.7	262051.6
-1.0291	0.85806	0.97173	298.7916	290.4474
-1.16374	0.33117	0.8593	389.5876	334.5335
-1.13863	0.02788	0.87825	26588.05	23518.66
1.10905	0.12992	1.10905	2960.271	3289.967
1.22837	0.04405	1.22837	1842.71	2266.811
-1.07059	0.42577	0.93406	872.3071	812.7493
-1.13552	0.30664	0.88066	659.5929	589.6052
1.01396	0.84671	1.01396	1512.143	1531.774
-1.1859	0.23086	0.84324	698.5265	584.2948
-1.08653	0.29971	0.92036	1281.441	1179.596
1.02168	0.93722	1.02168	154.3053	157.5811
-1.11941	0.41829	0.89333	607.5933	553.6214
1.09163	0.15606	1.09163	1461.246	1592.79
1.03552	0.80274	1.03552	350.0266	358.6452
-1.1701	0.28147	0.85463	599.8202	522.0526
1.26806	0.01589	1.26806	588.6917	740.2922
1.00735	0.90842	1.00735	1120.297	1130.102
1.04526	0.54694	1.04526	1330.573	1391.378
-1.08558	0.48394	0.92116	549.895	506.1864
1.15189	0.15916	1.15189	417.3983	480.6948
-1.05581	0.8506	0.94714	180.5945	171.9319
-1.10915	0.1431	0.9016	1364.369	1221.101
1.07161	0.67146	1.07161	228.4692	243.6621
-1.2694	0.25794	0.78777	412.298	341.3586
1.27651	0.594	1.27651	68.80948	89.16228
1.07942	0.23936	1.07942	3822.003	4087.96
-1.17305	0.68313	0.85248	170.4637	135.6103
1.02044	0.83327	1.02044	1953.873	1978.555
1.04997	0.7042	1.04997	338.3672	355.8402
1.17614	0.45339	1.17614	245.761	280.014
1.3025	0.00386	1.3025	626.0525	817.5547
-1.03283	0.87666	0.96821	272.5682	257.4027
1.12746	0.02807	1.12746	2640.861	2964.327
1.03141	0.75065	1.03141	785.2179	803.9134
1.0857	0.27052	1.0857	1103.809	1194.125
1.09348	0.36668	1.09348	3289.58	3556.473
1.13319	0.77827	1.13319	103.0478	112.5848
-1.08632	0.25124	0.92054	929.1833	853.9148
1.04855	0.64837	1.04855	1772.11	1860.206
1.10508	0.70189	1.10508	198.5981	221.2077
1.02457	0.85222	1.02457	305.909	314.0609
-1.05401	0.85003	0.94876	191.4377	176.593
-1.03686	0.58651	0.96445	1012.566	975.6376

1.0348	0.8156	1.0348	437.4127	453.33
-1.04961	0.69583	0.95273	416.8734	400.6367
-1.26548	0.09558	0.79022	355.2471	280.7507
1.48705	0.2312	1.48705	121.9294	178.6912
1.19544	0.41459	1.19544	301.229	357.9243
-1.04991	0.44284	0.95246	2211.385	2097.295
-1.01763	0.70689	0.98268	27245.86	26821.68
-1.0411	0.4864	0.96052	2028.543	1945.741
-1.00423	0.98841	0.99578	147.1899	148.4654
-1.11242	0.4944	0.89894	426.6503	391.0618
1.10524	0.2022	1.10524	3212.411	3568.927
-1.01383	0.83838	0.98636	2745.413	2709.087
1.1552	0.05308	1.1552	1752.572	2029.547
1.14799	0.38764	1.14799	265.5135	301.5379
-1.07867	0.89169	0.92707	101.1421	94.71748
-1.08099	0.12444	0.92508	2660.634	2458.441
1.04814	0.34105	1.04814	2049.836	2147.232
1.03186	0.54028	1.03186	1272.803	1313.804
1.07687	0.46109	1.07687	509.8795	546.6864
1.08322	0.56461	1.08322	280.6597	302.6342
-1.02483	0.75524	0.97577	673.3933	656.0405
-1.00269	0.98304	0.99731	2344.809	2360.333
-1.42033	0.00306	0.70406	8319.277	5608.834
1.01364	0.95704	1.01364	239.0859	251.3784
1.25392	0.2264	1.25392	281.8313	364.0411
-1.24453	0.03324	0.80351	989.6586	803.6174
1.00921	0.98999	1.00921	56.98204	57.40111
1.1334	0.02148	1.1334	1521.9	1725.953
1.0442	0.74409	1.0442	563.3828	598.9544
-1.05804	0.61617	0.94514	782.1619	746.0353
1.18135	0.31746	1.18135	330.7583	389.5122
-1.01965	0.87288	0.98073	669.6606	666.2731
1.46543	1.03E-07	1.46543	744.7197	1090.21
-1.01731	0.80367	0.98298	3275.477	3219.986
-1.02829	0.80471	0.97249	1759.375	1709.866
1.05095	0.67984	1.05095	654.4779	696.3221
1.09109	0.24799	1.09109	1278.184	1394.197
1.12654	0.52164	1.12654	252.6245	279.6019
-1.00343	0.94983	0.99658	1754.344	1747.324
1.358	0.00226	1.358	507.4306	688.9699
1.05552	0.777	1.05552	254.4834	269.0413
1.01929	0.80549	1.01929	2339.618	2391.723
1.19737	0.00712	1.19737	1220.278	1461.682
1.03372	0.78798	1.03372	415.4202	432.1695
1.02184	0.73584	1.02184	1262.347	1289.287
-1.06893	0.31827	0.93551	3169.864	2941.435
-1.29537	0.64098	0.77198	106.1415	90.76324
1.0776	0.7815	1.0776	217.1577	240.3844
1.02208	0.90427	1.02208	213.0616	218.7145
-1.09103	0.36499	0.91657	1459.308	1353.761
1.07892	0.46051	1.07892	484.3293	519.3959
-1.09918	0.61807	0.90977	246.1786	223.8604

1.40134	0.00379	1.40134	862.6438	1206.207
1.04991	0.54237	1.04991	692.96	723.9761
-1.22892	0.33906	0.81372	420.2659	335.188
-1.01352	0.87462	0.98666	1229.292	1220.995
-1.1	0.27752	0.90909	852.5859	772.807
-1.08273	0.17327	0.92359	1219.006	1123.204
1.02828	0.61903	1.02828	1998.646	2053.974
1.16888	0.02069	1.16888	576.3231	673.8738
-1.0181	0.88608	0.98222	315.3698	309.6807
-1.13102	0.45258	0.88416	462.3232	404.548
1.06387	0.39266	1.06387	2761.858	2910.81
-1.11251	0.21757	0.89887	1291.419	1159.949
-1.0258	0.7055	0.97485	2556.49	2477.158
1.07434	0.12306	1.07434	2377.843	2553.505
-1.06194	0.49487	0.94167	2905.986	2803.859
-1.01378	0.87781	0.98641	514.1451	507.1624
-1.22283	0.03469	0.81777	3788.699	3041.471
1.11106	0.06141	1.11106	1192.263	1325.618
-3.31481	1.22E-28	0.30168	45504.16	13241.3
-1.05112	0.56312	0.95136	762.8247	728.0294
1.03047	0.72291	1.03047	628.2148	645.5223
-1.18132	0.50225	0.84651	234.575	204.5026
-1.09807	0.49909	0.91069	693.1634	626.9486
1.03525	0.81454	1.03525	339.4534	352.9096
1.21206	0.0017	1.21206	1278.458	1548.967
-1.04264	0.89343	0.9591	160.2914	154.1129
1.04528	0.59157	1.04528	2613.834	2730.206
-1.28803	0.01583	0.77638	3631.768	2754.175
1.16714	0.00971	1.16714	2043.761	2375.042
1.28936	0.01066	1.28936	624.843	799.8651
-1.2205	0.60094	0.81933	100.8062	83.25403
-1.00589	0.92891	0.99414	4947.823	4903.3
-2.55717	1.67E-29	0.39106	52521.86	20126.05
1.01025	0.94513	1.01025	372.4795	376.8659
1.11059	0.16685	1.11059	4448.223	5060.453
1.0947	0.21679	1.0947	617.7728	674.7201
-1.21031	0.18592	0.82623	23825.07	18390.8
-1.07703	0.58223	0.92848	296.8769	276.9226
-1.06087	0.6349	0.94262	293.9819	276.6984
1.03406	0.74449	1.03406	391.4315	403.3174
-1.16766	0.01415	0.85641	3869.581	3286.997
-1.0363	0.40909	0.96497	33184.07	32062.25
1.00729	0.96308	1.00729	250.5706	250.7418
-1.04077	0.58377	0.96083	1561.331	1509.579
-1.07766	0.79863	0.92794	181.6167	169.1967
1.02517	0.81921	1.02517	1489.521	1516.557
1.00565	0.9164	1.00565	4071.345	4106.05
1.30171	0.03217	1.30171	589.0619	756.5002
1.05102	0.41307	1.05102	1181.323	1242.001
1.2559	0.00284	1.2559	2547.343	3176.725
1.13254	0.52956	1.13254	212.4668	239.231
1.02293	0.59156	1.02293	3453.351	3532.575

1.00656	0.98976	1.00656	122.2529	117.2224
1.32932	0.00026	1.32932	655.5234	875.4257
1.18134	0.54536	1.18134	177.4481	217.715
-1.35767	0.20371	0.73656	459.0633	341.3731
-1.05729	0.53572	0.94581	3726.32	3500.363
-1.08481	0.54084	0.92182	517.5353	483.2537
1.10343	0.12718	1.10343	14677.75	16476.88
1.06531	0.30456	1.06531	4294.221	4553.735
1.09029	0.16353	1.09029	4604.98	5047.431
1.00496	0.92729	1.00496	2090.358	2104.487
1.13388	0.50228	1.13388	269.5179	312.2962
1.0043	0.96294	1.0043	694.5813	700.2922
1.03869	0.59855	1.03869	943.0789	982.2465
-1.11323	0.44113	0.89828	358.381	325.1087
1.00396	0.95121	1.00396	1353.429	1359.264
-1.57652	6.15E-19	0.63431	3655.352	2314.503
1.17852	0.05537	1.17852	1637.1	1937.296
-1.11322	0.07578	0.89829	4257.491	3791.938
-1.19106	0.39954	0.83959	290.9938	243.302
1.00365	0.96131	1.00365	639.2817	643.5291
1.00377	0.94981	1.00377	1155.689	1158.022
-1.01994	0.75739	0.98045	1042.491	1025.165
1.06324	0.15997	1.06324	7564.585	8047.905
1.35464	0.00142	1.35464	946.0128	1288.479
-1.46094	0.70001	0.68449	65.90044	46.15781
-1.10052	0.25834	0.90866	2065.508	1879.823
-1.1302	0.28417	0.8848	604.455	535.1462
1.01594	0.79467	1.01594	3885.293	3954.545
1.03351	0.52641	1.03351	1250.498	1292.396
-1.01856	0.88276	0.98178	577.4855	567.5679
-1.099	0.70535	0.90992	158.5812	145.0277
1.02428	0.74038	1.02428	731.5813	748.4392
-1.1122	0.69554	0.89912	213.9268	203.8064
1.08959	0.32431	1.08959	791.8935	867.6686
-1.14829	0.03437	0.87086	9580.165	8422.118
-1.08505	0.09952	0.92162	2096.908	1931.596
-1.14144	0.83636	0.87608	92.12871	77.97414
-1.00701	0.90251	0.99304	3358.829	3337.81
-1.07898	0.87515	0.9268	105.8889	98.92091
-1.07449	0.49178	0.93067	898.766	842.6765
1.16264	0.07219	1.16264	1513.027	1743.322
-1.06313	0.49289	0.94062	714.8714	668.413
-1.03165	0.71939	0.96932	1334.189	1295.824
-1.34302	0.03961	0.74459	939.5859	708.4248
1.13724	0.0204	1.13724	4681.87	5348.767
1	1	1	24.44753	19.58419
-1.03951	0.42771	0.96199	5091.122	4884.548
1.32096	0.24091	1.32096	177.4074	229.4109
-1.09815	0.12971	0.91062	1375.213	1252.818
1.00023	0.99551	1.00023	6669.895	6671.529
1.08331	0.2786	1.08331	2000.789	2166.82
-1.01008	0.89466	0.99002	1246.323	1237.529

1.00046	0.99582	1.00046	1192.377	1202.222
1.07748	0.62496	1.07748	230.7632	249.2754
1.05286	0.51509	1.05286	733.5123	772.8629
1.01014	0.86902	1.01014	2364.376	2374.521
-1.07223	0.32324	0.93263	1250.113	1171.979
1.11213	0.22706	1.11213	635.2481	702.5242
-1.0591	0.82167	0.9442	204.8111	199.4982
-1.01408	0.83557	0.98611	2461.355	2433.925
1.12945	0.40173	1.12945	382.0143	438.9907
1.07591	0.63041	1.07591	464.0654	501.3629
-1.09441	0.40287	0.91373	1609.468	1458.432
1.01732	0.8236	1.01732	681.5687	692.6368
1.07712	0.39855	1.07712	834.1577	892.805
-1.06637	0.37144	0.93776	737.6154	691.6904
-1.05583	0.46138	0.94713	3597.52	3416.211
1.07579	0.40599	1.07579	674.1353	722.4573
1.06028	0.39787	1.06028	887.8141	939.5516
1.0587	0.36843	1.0587	2072.592	2207.487
-1.11196	0.44309	0.89932	2787.927	2397.983
-1.03704	0.72944	0.96428	898.7774	873.4406
1.07752	0.33443	1.07752	2143.739	2293.021
-1.13541	0.59781	0.88074	285.2488	240.3008
-1.00204	0.99115	0.99797	208.9727	207.1039
1.07079	0.45753	1.07079	649.4382	698.4015
-1.00852	0.92521	0.99155	4639.332	4526.375
1.53359	0.02657	1.53359	172.8841	266.5845
-1.17672	0.79091	0.84982	97.3661	80.81361
-1.53247	1.57E-10	0.65254	1108.902	724.2932
1.03451	0.60897	1.03451	1397.929	1440.854
1.00047	0.99534	1.00047	708.1862	705.3573
-1.02132	0.85894	0.97912	460.4744	452.7902
1.11477	0.46921	1.11477	413.9684	472.2033
-1.11873	0.76628	0.89387	155.3085	137.32
1.42544	0.40065	1.42544	92.14172	134.3654
1.07629	0.48728	1.07629	866.7798	924.2419
-1.80543	0.07659	0.55389	228.1314	135.7574
1.43646	2.31E-07	1.43646	916.2877	1315.15
-1.20726	0.03066	0.82832	8756.966	7148.028
1.02395	0.81333	1.02395	564.0786	577.3958
1.04387	0.55654	1.04387	1502.524	1567.735
-1.0013	0.98323	0.99871	1509.836	1506.417
-1.23112	0.70092	0.81227	110.7464	91.46531
-1.03567	0.82584	0.96556	267.9499	259.6543
-1.11857	0.17348	0.894	1532.977	1388.499
1.01662	0.88249	1.01662	5185.414	5124.654
-1.16651	0.06109	0.85726	1510.541	1292.655
-1.04992	0.37949	0.95245	905.2893	862.1379
1.09794	0.03839	1.09794	11446.88	12541.03
-1.00881	0.89326	0.99127	1919.959	1898.024
-1.01333	0.91009	0.98684	484.5673	481.9184
1.67886	0.61137	1.67886	31.52114	51.58591
1.15252	0.01078	1.15252	1420.651	1636.898

-1.11645	0.4006	0.89569	560.1469	500.437
1.17345	0.12888	1.17345	550.6864	640.8077
1.40026	1.97E-07	1.40026	2212.651	3110.21
-1.00851	0.99021	0.99157	68.5305	67.71111
1.04481	0.6771	1.04481	534.2098	553.3611
-1.44453	0.00063	0.69227	957.7251	669.7252
-1.12973	0.56174	0.88517	339.879	297.6043
-1.06951	0.74433	0.93501	340.1133	309.8524
-1.18574	0.12133	0.84336	8733.415	7592.721
-1.25947	0.00047	0.79398	6135.125	4819.26
1.46382	0.00157	1.46382	12728.08	19316.61
1.16325	0.03602	1.16325	1046.158	1216.947
1.01709	0.87582	1.01709	1092.211	1119.262
1.06062	0.40057	1.06062	856.9715	905.4667
1.03178	0.56947	1.03178	1177.78	1215.484
-1.04426	0.57882	0.95762	601.8231	575.1882
1.03876	0.5947	1.03876	4692.779	4838.106
-1.01612	0.89122	0.98413	687.3582	680.229
1.19097	0.00109	1.19097	3389.333	4030.123
1.04393	0.44479	1.04393	1244.922	1297.932
1.02199	0.73679	1.02199	1116.349	1138.773
-1.80694	0.00197	0.55342	388.2848	220.2183
1.04174	0.68667	1.04174	3063.884	3192.035
1.03279	0.8684	1.03279	224.1903	228.5064
-1.06034	0.3537	0.94309	4254.637	4051.056
-1.19657	0.00154	0.83573	3005.717	2505.681
-1.02925	0.68155	0.97158	1715.936	1650.437
-1.17271	0.00182	0.85273	1533.359	1307.437
-1.00327	0.95398	0.99674	2332.628	2326.865
-1.05033	0.40768	0.95208	1094.964	1040.448
1.04323	0.67943	1.04323	934.2711	964.6581
-1.04224	0.69171	0.95947	628.3939	597.4442
-1.08886	0.90921	0.91839	75.13965	69.27793
1.10957	0.11971	1.10957	1804.938	1997.794
1.15322	0.68894	1.15322	100.2894	114.5604
1.02416	0.83178	1.02416	3806.923	3783.525
1.16996	0.04392	1.16996	720.1888	840.26
-1.01462	0.96078	0.98559	191.7272	201.8205
1.13807	0.62094	1.13807	195.5496	222.1367
-1.22327	0.25218	0.81748	459.4467	388.4916
-1.07167	0.66063	0.93312	430.6107	399.8467
-1.04044	0.57876	0.96113	771.8988	744.0163
1.01948	0.91364	1.01948	323.7598	337.9153
-1.07543	0.67004	0.92986	258.0483	238.268
1.39501	0.00119	1.39501	5823.934	8325.041
-1.04665	0.47623	0.95543	2178.1	2083.123
-1.13315	0.00644	0.88249	15345.53	13565.13
1.09424	0.34485	1.09424	521.2389	567.1436
1.08865	0.16138	1.08865	10712.99	11726.13
1.26623	0.00866	1.26623	709.0143	893.8626
-1.0053	0.94042	0.99472	7703.569	7564.069
1.20052	0.4538	1.20052	190.2201	222.2419

1.01222	0.79208	1.01222	2241.407	2269.062
-1.26156	0.0002	0.79267	3812.861	3006.774
-1.03726	0.85189	0.96408	331.0626	323.026
1.02577	0.83091	1.02577	404.3317	412.7161
-1.37482	0.73532	0.72737	66.67465	49.48759
1.23477	0.12318	1.23477	931.7227	1141.56
-1.03148	0.54296	0.96948	2055.127	1990.721
-1.09736	0.45649	0.91128	583.767	534.5305
1.05895	0.9575	1.05895	46.87717	44.21283
1.11304	0.48149	1.11304	319.7329	356.2893
-1.01782	0.75129	0.98249	1206.347	1183.898
1.01888	0.78558	1.01888	5051.991	5147.211
-1.04957	0.58124	0.95277	1409.896	1347.782
-1.00031	0.99741	0.99969	577.6211	574.8154
1.15456	0.03995	1.15456	2375.063	2751.254
1.03802	0.92513	1.03802	147.4296	146.8623
-1.00401	0.94386	0.99601	1957.447	1948.902
1.0066	0.98871	1.0066	70.5211	70.70351
1.06275	0.77348	1.06275	204.2343	216.6476
1.01715	0.95024	1.01715	189.5931	199.7116
1.00831	0.87004	1.00831	1280.873	1291.711
1.06229	0.45536	1.06229	788.4808	834.6271
-1.00874	0.94269	0.99134	448.7159	445.9705
1.39545	1.10E-06	1.39545	624.2524	870.9638
-1.12924	0.16704	0.88555	1250.455	1106.133
1.30279	0.00243	1.30279	953.637	1240.226
1.06928	0.67412	1.06928	510.1412	557.0506
1.02918	0.69188	1.02918	739.4765	762.0319
-1.00939	0.94984	0.9907	316.7358	314.4896
-1.15632	0.12257	0.86481	1217.243	1063.141
1.05057	0.56806	1.05057	815.8569	852.5795
1.07883	0.46723	1.07883	389.1045	418.4537
-1.00885	0.86649	0.99123	2050.665	2029.24
1.22488	0.00829	1.22488	4871.986	5961.752
-1.0683	0.61776	0.93607	399.0823	373.634
1.02099	0.71802	1.02099	1077.744	1100.05
1.04313	0.46539	1.04313	3958.054	4116.414
1.15419	0.15489	1.15419	539.7637	620.4168
-1.33475	0.25869	0.7492	215.5446	165.5015
-1.13963	0.6297	0.87748	225.9238	196.5907
1.00553	0.93754	1.00553	8217.182	8147.461
-1.25036	0.27182	0.79977	416.7933	328.4867
1.01141	0.93663	1.01141	296.6951	300.5044
1.03528	0.5656	1.03528	1730.095	1787.779
-1.08003	0.56152	0.9259	353.0997	327.6412
-1.08317	0.58084	0.92321	608.924	574.9636
-1.06262	0.1778	0.94107	2390.082	2249.251
1.01794	0.80859	1.01794	2498.586	2548.815
1.36419	0.02157	1.36419	784.8173	1058.771
1.08294	0.52107	1.08294	446.6923	479.9322
1.62569	1.48E-10	1.62569	2128.075	3448.738
1.03742	0.46532	1.03742	1527.141	1584.71

-1.09137	0.6665	0.91628	266.2539	244.2421
1.0298	0.67752	1.0298	5506.672	5632.901
1.04058	0.57942	1.04058	683.7671	709.9166
-1.06074	0.70339	0.94273	375.4765	360.53
1.11562	0.79006	1.11562	102.2008	110.5659
1.01091	0.83297	1.01091	3011.518	3052.854
1.07061	0.27754	1.07061	1076.252	1151.6
1.20174	0.14359	1.20174	1897.849	2200.07
-1.00569	0.95706	0.99434	2619.449	2546.848
-1.06505	0.78911	0.93892	222.838	208.3899
-1.04893	0.735	0.95335	442.1653	420.4726
1.06599	0.81076	1.06599	149.7685	161.3918
1.0244	0.92192	1.0244	160.021	162.3047
-1.26036	0.00006	0.79343	4590.273	3630.166
-1.00844	0.86564	0.99164	1348.859	1337.544
-1.05099	0.63951	0.95148	554.7666	529.6343
-1.11489	0.19272	0.89695	2611.253	2315.695
1.1928	0.10405	1.1928	2639.496	3103.809
1.3016	0.00484	1.3016	4778.685	6163.279
1.0258	0.76224	1.0258	4468.628	4621.31
1.03863	0.84769	1.03863	232.7658	244.8019
-1.03937	0.65433	0.96212	535.5084	515.7722
1.28013	0.09143	1.28013	336.2127	424.0084
1.18941	0.35214	1.18941	244.1635	286.2486
-1.02347	0.83563	0.97706	724.7357	716.674
-1.01668	0.91738	0.98359	449.0902	438.3513
1.03335	0.65092	1.03335	665.6674	687.3945
1.09018	0.62901	1.09018	420.4312	459.2574
1.09511	0.36691	1.09511	401.0504	437.8006
1.5355	0.62904	1.5355	41.73895	66.10043
-1.00823	0.95414	0.99183	312.0893	308.532
-1.38855	5.33E-10	0.72018	12030.28	8617.946
1.34379	0.00572	1.34379	1528.156	2012.032
1.08328	0.38871	1.08328	580.4775	624.7557
-1.05846	0.4581	0.94477	2013.712	1908.741
-1.1029	0.37322	0.9067	3125.799	2749.057
-1.12103	0.81828	0.89204	116.9377	107.3439
1.03403	0.73046	1.03403	402.2398	416.9495
-1.29771	0.00384	0.77059	2545.432	1964.844
1.09433	0.04175	1.09433	1582.266	1731.522
1.02078	0.99029	1.02078	23.18699	25.59026
1.29099	0.13639	1.29099	343.0489	431.7426
-1.09971	0.75267	0.90933	116.734	105.7671
1.01266	0.90269	1.01266	442.1339	449.861
1.10275	0.71455	1.10275	157.8391	172.0293
-1.02721	0.92601	0.97351	213.5583	203.4092
1.14528	0.06981	1.14528	1002.682	1148.087
1.12607	0.09731	1.12607	1305.769	1467.25
-1.01325	0.89048	0.98692	895.8607	893.0301
-1.06797	0.17019	0.93636	2171.878	2033.1
1.10818	0.22648	1.10818	553.0951	610.4782
-1.07679	0.76665	0.92869	144.1972	134.1786

-1.00007	0.99962	0.99993	227.6643	226.8267
1.15698	0.59902	1.15698	172.5558	206.7393
1.3776	4.52E-06	1.3776	901.8749	1242.45
1.03751	0.86987	1.03751	158.0302	162.9446
-1.10655	0.51602	0.90371	594.3188	538.3462
-1.26482	0.1097	0.79063	935.5633	749.2771
1.07717	0.38317	1.07717	823.1721	891.7804
1.04023	0.78895	1.04023	352.3128	371.5846
1.11099	0.31563	1.11099	1483.225	1668.113
1.2181	0.00439	1.2181	2076.766	2546.414
-1.13709	0.10819	0.87944	1195.436	1053.433
1.04229	0.64925	1.04229	709.3547	733.7573
1.00309	0.95202	1.00309	1095.366	1099.062
-1.05267	0.48787	0.94996	5638.77	5359.997
-1.04444	0.607	0.95746	842.5579	802.6096
1.0506	0.67235	1.0506	466.1433	494.7347
-1.19128	0.13713	0.83943	2690.215	2192.995
-1.00969	0.90101	0.9904	817.8773	806.5785
-1.23997	0.0118	0.80647	2419.677	1925.5
-1.19594	0.00041	0.83617	23074.7	19203.14
-1.05272	0.89846	0.94992	98.84467	94.0984
1.03467	0.69469	1.03467	995.9617	1024.571
1.04057	0.50887	1.04057	3790.7	3946.582
1.0204	0.71033	1.0204	1217.689	1244.624
1.01676	0.77145	1.01676	2750.523	2789.231
-1.02545	0.93632	0.97518	155.0201	150.8008
1.51385	0.20492	1.51385	193.2924	294.7878
1.12519	0.74741	1.12519	167.6731	193.3642
-1.19161	0.39006	0.8392	279.6457	233.2763
-1.04723	0.49713	0.9549	2924.91	2813.343
1.03264	0.64739	1.03264	836.0832	864.9368
-1.36921	0.00057	0.73035	4073.217	2930.556
1.0119	0.86039	1.0119	9212.908	9269.348
1.09926	0.81769	1.09926	118.8813	125.2725
1.01665	0.71379	1.01665	5610.306	5713.947
-1.07304	0.40091	0.93193	538.2147	501.5702
-1.14213	0.1531	0.87556	1180.852	1033.927
1.00684	0.90304	1.00684	1367.416	1377.257
1.016	0.80537	1.016	947.6494	963.5587
1.07234	0.38539	1.07234	4186.996	4432.648
-1.1111	0.66532	0.90001	265.3068	249.6249
-1.02586	0.8038	0.97479	6361.022	6320.722
1.202	0.00075	1.202	12474.57	15117.75
1.09356	0.70268	1.09356	202.5533	221.5448
1.06147	0.38618	1.06147	760.5101	808.1737
1.33313	0.00054	1.33313	13262.54	17263.04
-1.0152	0.82803	0.98502	4852.398	4834.382
1.08602	0.31615	1.08602	605.4979	656.4624
-1.02927	0.70969	0.97156	642.3605	624.5586
-1.12124	0.21131	0.89187	602.3619	540.3315
1.00053	0.9965	1.00053	357.0972	357.3302
-1.05824	0.52961	0.94496	1233.287	1165.731

1.0201	0.78341	1.0201	4996.006	5070.393
1.0994	0.75427	1.0994	189.8876	213.5295
1.00522	0.97403	1.00522	304.0537	305.687
-1.05493	0.45533	0.94793	1817.015	1717.116
-1.16017	0.28057	0.86194	1500.31	1282.272
-1.02062	0.90401	0.97979	300.2764	291.0231
-1.11792	0.11379	0.89452	2778.156	2475.1
1.00781	0.93498	1.00781	534.0357	535.8804
-1.04663	0.56454	0.95545	906.8918	863.7996
1.06701	0.45426	1.06701	4411.728	4653.141
1.04054	0.7077	1.04054	551.8674	574.2053
-1.03955	0.68562	0.96196	838.6627	800.0734
1.05046	0.82016	1.05046	226.6565	238.8396
-1.05302	0.6518	0.94965	500.9154	480.0927
1.00607	0.92642	1.00607	1662.244	1666.636
-1.03913	0.85459	0.96234	301.9067	287.1337
1.01202	0.90256	1.01202	1083.797	1089.969
1.021	0.90581	1.021	328.3019	336.468
1.08427	0.78049	1.08427	141.8751	151.3438
-1.02667	0.88286	0.97402	312.7602	305.3893
-1.01996	0.83489	0.98043	1353.75	1336.896
1.07195	0.49509	1.07195	492.2927	524.5309
1.11263	0.18525	1.11263	647.8776	722.4537
1.24459	0.66563	1.24459	89.21321	107.4165
1.19731	0.01559	1.19731	1078.438	1290.412
-1.03156	0.84783	0.96941	310.5826	304.8772
-1.07524	0.45323	0.93003	1252.013	1161.136
1.13062	0.20717	1.13062	2953.249	3277.746
-1.19655	0.291	0.83574	692.0576	577.04
1.02271	0.76775	1.02271	1142.936	1166.391
-1.03821	0.48509	0.96319	2016.151	1942.565
-1.00146	0.98147	0.99854	853.7152	852.8527
1.01822	0.81659	1.01822	716.37	727.8411
1.19715	0.02445	1.19715	1497.478	1786.859
-1.0299	0.61939	0.97097	2389.366	2322.26
-1.02709	0.73767	0.97363	2581.382	2512.698
1.03887	0.50542	1.03887	1087.597	1129.029
1.01562	0.87572	1.01562	477.0189	485.9225
-1.31654	0.47828	0.75956	176.7204	128.9875
-1.11784	0.63605	0.89458	275.3317	250.7141
1.056	0.41596	1.056	575.467	607.8649
-1.26969	0.00075	0.7876	1175.398	924.8041
1.47389	2.39E-16	1.47389	2133.336	3142.665
-1.35394	0.01469	0.73859	3222.276	2378.316
-1.1085	0.73681	0.90212	152.3502	137.2218
1.03246	0.74714	1.03246	765.2136	782.415
1.27764	0.03855	1.27764	976.1006	1245.568
-1.19977	0.23574	0.83349	483.5682	401.6158
1.18099	0.34402	1.18099	292.182	338.6713
-1.11707	0.44099	0.8952	376.6686	338.7027
1.45527	6.38E-07	1.45527	829.8973	1209.973
1.04876	0.30627	1.04876	2126.357	2230.489

-1.02256	0.87436	0.97794	371.6522	361.8345
1.09364	0.49505	1.09364	5737.507	5989.829
-1.17078	0.05578	0.85413	834.2844	716.3066
-1.21869	0.0286	0.82055	7949.358	6327.956
-1.03208	0.6685	0.96891	1087.619	1047.638
-1.05961	0.56902	0.94374	7969.923	7363.71
-1.13177	0.07603	0.88357	1206	1060.115
-1.56322	7.47E-07	0.6397	2896.372	1865.908
1.05556	0.7949	1.05556	289.0035	308.9587
1.0236	0.76393	1.0236	579.0674	591.9725
-1.06129	0.43543	0.94225	2637.405	2499.264
1.01757	0.82169	1.01757	847.0278	857.5508
-1.03372	0.55328	0.96738	1044.932	1010.402
1.08876	0.38658	1.08876	998.7511	1091.542
-1.12374	0.09384	0.88988	2181.116	1936.844
1.02055	0.81559	1.02055	677.308	692.0964
-1.28987	0.00061	0.77527	10528.33	8288.078
1.20643	0.00332	1.20643	9549.577	11371.01
-1.00628	0.96914	0.99376	236.0512	234.3754
1.05932	0.31344	1.05932	1901.001	2013.753
1.04575	0.64286	1.04575	1383.006	1457.931
-1.20468	0.02483	0.83009	3910.009	3253.622
1.56777	0.09132	1.56777	189.0858	287.2368
1.04716	0.61446	1.04716	659.8807	689.6865
1.00416	0.95979	1.00416	2352.932	2357.587
1.0363	0.51947	1.0363	2185.95	2264.416
-1.31433	0.05769	0.76085	998.7374	772.7924
-1.2592	0.02803	0.79415	2022.243	1584.585
-1.04536	0.848	0.9566	206.8658	197.4641
1.32137	0.42446	1.32137	97.53761	127.7561
-1.02997	0.66373	0.9709	1069.105	1036.043
1.04522	0.38078	1.04522	1328.808	1389.163
1.06483	0.5006	1.06483	1426.281	1513.07
1.00217	0.98208	1.00217	4009.79	3946.417
-1.91768	4.70E-11	0.52146	1364.562	711.1409
-1.04437	0.36667	0.95751	2566.072	2455.744
1.05797	0.33841	1.05797	1552.041	1641.963
1.02121	0.76198	1.02121	960.4227	978.6261
-1.26809	0.00222	0.78859	1575.105	1239.199
-1.70852	1.56E-12	0.5853	5857.989	3460.007
1.00199	0.97684	1.00199	1020.914	1020.915
-1.08069	0.60602	0.92534	487.9065	451.5593
1.07855	0.47438	1.07855	441.0894	477.5102
-1.07276	0.74105	0.93217	179.0536	167.368
1.12654	0.10143	1.12654	17839.03	19789.62
-1.27563	0.08498	0.78393	703.6313	562.621
-1.00032	0.99751	0.99968	1000.437	993.9664
-1.02898	0.57111	0.97184	5519.123	5367.377
-1.00364	0.98044	0.99637	379.8419	384.7216
-1.05493	0.21142	0.94793	7515.316	7124.188
-1.01021	0.86876	0.98989	731.104	723.6851
1.12843	0.17869	1.12843	441.9227	498.5272

1.05685	0.69306	1.05685	323.6498	341.2523
1.11386	0.24465	1.11386	494.6483	550.1879
-1.16807	0.86955	0.85611	52.37969	44.40024
-1.18811	0.07651	0.84167	3192.095	2681.255
1.19624	0.04606	1.19624	1595.855	1900.002
-1.00178	0.96709	0.99823	10424.13	10415.17
1.03962	0.65697	1.03962	1133.066	1177.391
1.00754	0.89583	1.00754	4979.351	5024.78
1.25799	0.2278	1.25799	294.6551	358.2129
-1.18454	0.07171	0.84421	10402.91	8517.588
-1.00428	0.95668	0.99573	2738.335	2708.1
1.13449	0.3659	1.13449	593.4278	660.1504
1.14549	0.02323	1.14549	1600.282	1836.089
1.23966	0.04733	1.23966	1206.058	1472.107
-1.05508	0.69994	0.9478	1326.72	1260.711
-1.15066	0.14104	0.86906	811.0093	701.5222
-1.05716	0.5109	0.94593	3640.443	3406.008
1.17083	0.15449	1.17083	333.5308	390.238
1.02363	0.6806	1.02363	1848.98	1892.453
1.18304	0.03964	1.18304	1158.946	1371.656
1.02701	0.61088	1.02701	1572.785	1615.705
-1.05434	0.44407	0.94846	1858.898	1753.77
1.04668	0.85963	1.04668	198.2104	208.0503
1.03196	0.73332	1.03196	1468.385	1521.737
1.15063	0.15313	1.15063	612.2405	709.7661
-1.00788	0.9256	0.99219	1300.398	1294.474
-1.04059	0.68436	0.96099	389.0494	373.2349
1.01041	0.84244	1.01041	1613.71	1630.299
1.03442	0.68022	1.03442	9749.438	9926.971
-1.1982	0.0351	0.83458	1221.043	1021.732
1.1681	0.01409	1.1681	4552.567	5273.967
-1.02718	0.8184	0.97354	725.306	701.2833
1.0964	0.20831	1.0964	7909.915	8486.448
1.09835	0.1977	1.09835	6113.411	6757.956
-1.0314	0.89155	0.96955	255.4874	245.6709
1.01792	0.80341	1.01792	5177.013	5290.833
-1.02744	0.58836	0.97329	3150.503	3064.102
1.02778	0.82181	1.02778	940.4293	973.5636
-1.14245	0.01426	0.87531	4766.218	4150.383
1.04125	0.62033	1.04125	658.9502	684.2537
-1.06753	0.4686	0.93674	1168.193	1094.145
1.08293	0.58618	1.08293	362.5306	397.652
1.00199	0.99573	1.00199	129.0376	125.6195
-1.36716	0.06277	0.73144	1172.783	883.3176
-1.0918	0.15132	0.91592	1468.339	1349.923
-1.26236	0.06674	0.79217	1125.719	909.6561
-1.15169	0.2662	0.86829	1345.786	1165.493
-1.02376	0.79018	0.97679	867.5488	851.7517
-1.02016	0.89311	0.98024	454.316	445.0599
-1.07472	0.56672	0.93048	531.3542	495.1075
1.02237	0.76334	1.02237	3021.857	3097.508
-1.32194	0.00002	0.75647	5175.079	3888.398

1.07754	0.29629	1.07754	2776.76	3011.608
-1.06585	0.88944	0.93822	94.53484	91.6013
1.03144	0.55282	1.03144	3942.468	4079.926
-1.0986	0.17	0.91025	1266.308	1153.97
-1.04213	0.68249	0.95958	6726.477	6624.607
1.20344	0.28827	1.20344	527.608	634.9459
1.00364	0.9589	1.00364	2023.613	2020.699
-1.00158	0.98625	0.99842	734.5433	730.725
-1.0151	0.97159	0.98513	141.9274	151.5696
-1.61058	3.71E-19	0.6209	3013.397	1867.542
-1.00189	0.98833	0.99811	722.9628	717.8303
-1.00668	0.90329	0.99336	1736.728	1724.337
1.15106	0.00308	1.15106	29330.21	33878.66
-1.04684	0.65018	0.95526	670.8084	638.3374
1.03778	0.44192	1.03778	2720.729	2825.016
-1.01214	0.84811	0.98801	1573.34	1551.373
1.03873	0.8379	1.03873	259.0378	268.624
-1.10083	0.30942	0.90841	14870.9	13710.27
1.043	0.44531	1.043	3996.268	4186.273
-1.55084	0.00041	0.64481	783.6144	512.0679
-1.11976	0.11152	0.89305	2357.615	2099.275
-1.1787	0.13797	0.8484	958.9064	816.4305
1.13594	0.08048	1.13594	1297.88	1473.408
1.05975	0.66592	1.05975	388.3384	407.9766
-1.05327	0.54736	0.94942	1481.706	1407.138
1.15871	0.37156	1.15871	247.1839	288.8066
1.10784	0.51862	1.10784	386.5214	417.8288
-1.19922	0.00165	0.83388	3462.072	2881.895
-1.01113	0.85295	0.98899	1358.648	1344.467
1.01841	0.78878	1.01841	766.1879	781.4065
-1.11008	0.43339	0.90083	422.2804	384.977
-1.18329	0.18834	0.8451	1746.229	1441.742
-1.06276	0.25298	0.94094	3210.357	3023.162
1.0431	0.85584	1.0431	220.0005	224.7079
1.07071	0.53363	1.07071	451.2813	486.7931
1.02969	0.59893	1.02969	1273.525	1311.634
1.30929	0.01502	1.30929	384.5913	502.9349
-1.04641	0.96879	0.95564	39.14993	33.71883
1.06749	0.62233	1.06749	266.312	283.7342
-1.36739	0.05561	0.73132	1601.84	1159.25
-1.15637	0.31571	0.86477	556.0002	490.5169
-1.07536	0.84086	0.92992	179.3737	178.2346
-1.02106	0.67562	0.97937	3052.577	2987.544
-1.04916	0.73846	0.95314	341.7315	325.5947
-1.07405	0.46986	0.93105	553.5585	517.4659
-1.16278	0.06026	0.86001	1693.499	1453.04
1.06649	0.52967	1.06649	4299.747	4478.521
1.20385	0.8265	1.20385	50.23251	61.18933
-1.0008	0.99535	0.9992	991.971	979.5057
-1.09458	0.73077	0.91359	208.5107	189.971
1.20531	0.12171	1.20531	457.1337	545.166
-1.11997	0.57121	0.89288	317.0554	282.7908

-1.02973	0.62137	0.97112	2656.172	2577.724
1.04608	0.52872	1.04608	1075.969	1125.516
1.02032	0.70189	1.02032	2648.897	2697.506
1.17009	0.24358	1.17009	1074.056	1256.605
-1.0915	0.87483	0.91617	103.0314	92.71696
-1.41224	0.00101	0.7081	1108.312	787.456
-1.04122	0.77228	0.96041	454.4906	444.0124
-1.03465	0.69233	0.96651	530.511	512.5832
-1.18259	0.00299	0.8456	2853.934	2403.994
1.09939	0.47499	1.09939	981.5167	1084.887
-1.20602	0.02489	0.82917	19328.04	15775.02
-1.02692	0.53716	0.97378	3922.968	3819.503
-1.06145	0.4965	0.94211	615.7335	582.991
1.03544	0.47843	1.03544	2015.859	2087.596
-1.03328	0.6521	0.96779	827.1329	803.3021
-1.12367	0.37447	0.88994	636.4665	564.8716
-1.17714	0.04071	0.84952	1276.317	1085.738
-1.04501	0.57226	0.95693	937.6399	900.83
-1.13046	0.14148	0.8846	1145.66	1018.755
-1.04652	0.54041	0.95555	698.4026	666.3592
1.02074	0.84863	1.02074	1331.255	1364.54
1.16364	0.02295	1.16364	799.1565	930.0806
-1.04832	0.58236	0.95391	600.1107	575.0856
1.21864	0.01633	1.21864	3083.967	3724.924
1.2081	0.0114	1.2081	1571.012	1904.888
1.00857	0.93849	1.00857	6300.955	6473.396
1.01392	0.80533	1.01392	1273.235	1290.237
-1.25761	0.01114	0.79516	677.8851	541.64
-1.94483	4.34E-15	0.51418	4190.033	2126.045
1.01394	0.81717	1.01394	1505.572	1525.552
1.39467	0.14204	1.39467	164.3113	232.782
1.00111	0.98466	1.00111	3203.949	3211.546
1.23829	0.12879	1.23829	394.7985	480.5302
-1.43557	1.13E-06	0.69659	772.0809	537.1564
1.05068	0.43189	1.05068	1014.959	1063.294
-1.31291	0.00001	0.76167	3209.964	2430.698
-1.09666	0.37148	0.91186	568.9486	520.2656
1.22966	0.43239	1.22966	162.9032	198.6205
-3.6096	0.00007	0.27704	1906.906	484.1729
-1.01826	0.84181	0.98207	541.0097	529.5389
-1.09546	0.63641	0.91286	291.8853	265.3615
-1.10679	0.43347	0.90351	473.936	434.0093
1.12387	0.00636	1.12387	9259.857	10395.38
-1.12628	0.11809	0.88788	20042.07	18014.43
-1.11169	0.43641	0.89953	441.0326	397.1615
1.44227	2.84E-08	1.44227	13861.24	20195.53
1.14375	0.36733	1.14375	491.1093	575.0797
-1.42837	0.02343	0.7001	2528.216	1728.847
-1.04479	0.57526	0.95713	2363.146	2284.307
1.0626	0.34103	1.0626	878.697	933.4359
1.13003	0.09594	1.13003	2105.214	2362.894
-1.06567	0.67173	0.93838	1871.599	1709.832

-1.04229	0.86192	0.95943	198.2181	189.3398
-1.72461	0.00642	0.57984	2454.248	1342.206
-1.03126	0.62414	0.96969	2994.477	2891.775
1.10033	0.18782	1.10033	3117.925	3460.747
1.06944	0.19327	1.06944	25902.13	27573.93
-1.19751	0.21363	0.83507	799.9679	680.2545
-1.2648	5.65E-08	0.79064	5781.162	4568.259
-1.08873	0.51365	0.9185	960.4054	892.4117
-1.05515	0.40118	0.94773	2210.104	2095.687
-1.03835	0.54725	0.96307	6714.668	6552.222
1.1634	0.08108	1.1634	533.6531	622.2438
1.17269	0.00099	1.17269	20466.37	24061.8
1.00103	0.9829	1.00103	6865.408	6862.823
-1.02018	0.79784	0.98022	853.8872	841.5597
-1.02393	0.65221	0.97663	2002.505	1956.461
-1.27641	0.23176	0.78345	612.1992	498.2517
-1.03496	0.58051	0.96622	1118.089	1078.653
1.01805	0.87737	1.01805	543.8412	554.5158
1.01484	0.91975	1.01484	370.2996	375.2915
1.11931	0.23995	1.11931	1560.469	1748.556
1.04577	0.89345	1.04577	125.1407	130.9908
-1.04432	0.54504	0.95756	3693.451	3559.315
-1.03594	0.66618	0.96531	466.2388	449.9544
1.06213	0.64473	1.06213	475.9955	497.868
1.07436	0.96674	1.07436	26.87989	26.5833
1.04862	0.61125	1.04862	774.856	817.8633
1.42434	4.12E-09	1.42434	16176.63	22823.51
1.01064	0.89625	1.01064	946.5742	960.8158
1.06117	0.38218	1.06117	874.6016	927.4004
1.03023	0.53706	1.03023	5009.203	5168.12
-1.08337	0.34428	0.92305	3005.371	2755.441
1.29503	0.04661	1.29503	15207.63	20698.54
-1.10491	0.57673	0.90505	435.3612	388.237
1.26249	5.64E-07	1.26249	5414.882	6855.481
-2.7392	6.67E-17	0.36507	2298.206	823.7111
-1.0185	0.71192	0.98183	3583.327	3517.717
-1.06011	0.46739	0.94329	1348.305	1271.162
-1.00576	0.947	0.99427	599.8838	597.9822
1.02444	0.69913	1.02444	1079.141	1106.084
-1.00396	0.96726	0.99605	4827.997	4920.468
1.19201	0.57414	1.19201	141.6187	168.796
-1.20075	0.14425	0.83281	379.7535	318.1599
1.06319	0.33307	1.06319	1117.657	1186.409
1.05988	0.39002	1.05988	1510.537	1601.133
1.02892	0.71006	1.02892	1136.456	1165.821
-1.13022	0.35325	0.88478	501.4404	450.1898
1.24523	0.00004	1.24523	1414.367	1761.582
1.05052	0.47458	1.05052	24740.43	26353.99
1.09783	0.09083	1.09783	1437.427	1576.644
1.12281	0.08963	1.12281	848.2242	949.1262
1.15564	0.55071	1.15564	235.6755	276.1456
-1.18593	0.02149	0.84322	1072.395	905.3668

-1.12469	0.20122	0.88913	679.5878	607.1246
-1.00402	0.94915	0.99599	1248.728	1243.272
1.14102	0.02993	1.14102	1044.023	1191.685
-1.0404	0.42938	0.96117	1221.625	1174.26
1.00976	0.85366	1.00976	2804.751	2824.654
-1.13872	0.60386	0.87818	186.4162	166.1142
1.02848	0.85025	1.02848	1369.329	1419.805
1.03339	0.81487	1.03339	335.8273	346.6246
1.13245	0.31535	1.13245	3916.212	4459.163
-1.11119	0.68363	0.89994	215.3084	184.8291
-1.10343	0.53929	0.90627	449.7435	417.9892
1	1	1	24.23306	20.18325
1.22424	0.18899	1.22424	557.0833	667.072
-1.22018	0.00004	0.81955	2498.265	2047.226
-1.11184	0.46922	0.89941	444.7417	400.6428
1.16378	0.15472	1.16378	639.0419	750.7468
-1.03703	0.60851	0.9643	2881.113	2755.605
1.0408	0.73877	1.0408	461.1516	474.8239
-1.14348	0.0087	0.87452	2232.242	1953.998
-1.13745	0.27458	0.87916	569.981	505.224
1.3946	0.00019	1.3946	837.4893	1165.659
-1.34277	0.00617	0.74473	1582.537	1177.759
-1.0406	0.54486	0.96099	2892.902	2750.079
-1.01517	0.80979	0.98505	1297.543	1274.958
1.03903	0.63157	1.03903	1585.769	1638.641
-1.09498	0.49953	0.91326	411.3203	379.1607
1.14693	0.17489	1.14693	7146.63	8498.029
1.047	0.71161	1.047	510.5135	536.6743
1.00508	0.96673	1.00508	610.5859	622.5518
1.02173	0.81821	1.02173	6022.646	5977.302
1.19589	0.16988	1.19589	447.7187	527.665
-1.11543	0.28421	0.89651	774.7325	695.7689
1.01741	0.79966	1.01741	2824.932	2842.73
-1.15393	0.02448	0.8666	12363.12	10642.38
-1.32264	8.19E-09	0.75606	2295.926	1735.838
-1.02056	0.90052	0.97985	320.7479	314.4025
-1.38924	0.02812	0.71982	4355.439	3113.663
1.16869	0.06922	1.16869	648.3756	754.0446
-1.18928	0.00673	0.84084	2454.684	2054.776
1.39367	0.00556	1.39367	584.6289	807.5279
1.14077	0.00428	1.14077	1915.785	2185.54
1.28363	0.03445	1.28363	794.8299	1009.753
-1.00288	0.98567	0.99713	301.0082	300.3649
-1.06998	0.37536	0.9346	1602.397	1497.62
-1.01425	0.82495	0.98595	1847.254	1822.636
2.01888	0.00037	2.01888	717.3379	1461.104
-1.02556	0.89829	0.97508	228.382	222.5968
1.05957	0.22302	1.05957	4791.457	5070.152
-1.046	0.55985	0.95602	1670.348	1593.068
-1.03477	0.875	0.9664	223.7274	216.5874
-1.01538	0.87643	0.98485	840.2169	834.9072
1.03538	0.5941	1.03538	1436.285	1489.684

-1.1665	0.60633	0.85726	165.6472	142.3575
1.02648	0.60634	1.02648	2389.72	2449.896
-1.37087	0.09487	0.72946	506.6233	383.3249
-1.14259	0.17005	0.87521	1133.234	1001.15
1.25694	3.29E-06	1.25694	12538.12	15826.11
-1.05296	0.26298	0.9497	2248.347	2135.176
-1.04633	0.75789	0.95572	351.4575	336.1874
-1.04935	0.46778	0.95297	1977.771	1878.667
-1.25891	0.00514	0.79434	5365.246	4161.257
-1.13327	0.45524	0.8824	444.442	388.1747
-1.03899	0.66212	0.96247	1118.137	1079.795
3.26048	3.07E-40	3.26048	8074.449	25843.84
1.44887	1.12E-08	1.44887	1748.29	2529.172
1.0134	0.8902	1.0134	1066.251	1077.23
1.00212	0.99294	1.00212	237.5002	249.6525
1.14191	0.20838	1.14191	979.8162	1117.353
-1.16632	0.01191	0.8574	6047.389	5212.968
-1.07273	0.49674	0.9322	2195.91	2109.632
-1.15553	0.39311	0.86541	569.5823	488.4273
-1.01712	0.7912	0.98317	1771.629	1740.262
-1.0179	0.84015	0.98242	4610.864	4446.404
1.10313	0.26709	1.10313	2945.179	3292.988
1.23255	0.16815	1.23255	266.9535	328.415
-1.01645	0.91759	0.98382	314.0212	313.1608
1.05043	0.5089	1.05043	909.353	959.9238
-1.05272	0.35723	0.94992	1747.183	1664.895
1.05625	0.4432	1.05625	1301.198	1371.912
1.43184	0.00116	1.43184	1319.09	1892.099
1.13497	0.12874	1.13497	2917.041	3277.16
1.27039	0.01192	1.27039	1357.31	1700.076
1.00284	0.95482	1.00284	3475.136	3475.186
1.1146	0.66129	1.1146	178.5648	201.3296
-1.07999	0.765	0.92593	164.1322	152.2209
-1.00439	0.94119	0.99563	928.5374	924.9545
1.00298	0.98197	1.00298	432.5397	438.9042
-1.08336	0.51405	0.92306	4646.437	4360.188
-1.12205	0.44365	0.89122	634.4904	579.785
1.03275	0.54603	1.03275	3637.591	3774.673
-1.10094	0.2306	0.90831	860.8464	786.587
1.02903	0.53094	1.02903	11928.77	12302.89
-1.08269	0.48089	0.92362	471.235	438.5465
1.52507	1.75E-11	1.52507	1325.666	2017.748
1.13225	0.00377	1.13225	23613.14	26708.43
1.06652	0.4178	1.06652	4214.717	4608.626
-1.19748	0.0054	0.83509	939.3878	785.6368
-1.01613	0.81052	0.98413	2239.372	2204.338
1.03629	0.73279	1.03629	1469.443	1529.362
1.26853	0.0001	1.26853	1578.676	2008.322
-1.1923	0.00127	0.83872	3347.637	2798.079
1.00428	0.92799	1.00428	4810.477	4843.527
-1.02362	0.6933	0.97693	3658.428	3577.158
1.03794	0.51754	1.03794	1202.8	1247.896

1.13278	0.51657	1.13278	274.7072	304.6942
-1.12357	0.49292	0.89002	336.4373	298.6176
-1.13009	0.59223	0.88488	295.1283	256.2262
1.01807	0.8923	1.01807	475.4813	491.7853
-1.05891	0.40976	0.94437	1954.999	1855.537
-1.00756	0.937	0.9925	1118.385	1112.278
-1.04378	0.41129	0.95805	1856.02	1777.351
1.04014	0.64415	1.04014	2760.741	2829.689
1.32863	0.37069	1.32863	236.4767	357.7888
1.34395	7.14E-07	1.34395	4297.087	5761.042
1.01537	0.87717	1.01537	1597.644	1611.785
-1.08105	0.54018	0.92503	549.9676	516.5878
-1.30706	0.11788	0.76507	406.524	318.1044
1.25114	9.51E-07	1.25114	2241.591	2806.023
1.35583	0.00003	1.35583	3503.331	4725.874
1.04636	0.48043	1.04636	2460.673	2591.4
-1.01827	0.92658	0.98206	233.6828	229.5151
-1.30517	0.00029	0.76618	4591.459	3452.191
1.03452	0.85905	1.03452	176.8612	183.5792
-1.08925	0.77625	0.91806	206.3472	194.3653
1.13387	0.00885	1.13387	3140.587	3566.988
-1.00973	0.86918	0.99037	7933.576	7811.87
1.01412	0.95194	1.01412	264.8086	283.7909
-1.03602	0.55975	0.96523	2123.506	2065.454
1.0245	0.75652	1.0245	1050.294	1070.359
-1.23443	0.1101	0.81009	3602.917	2827.847
-1.00963	0.90137	0.99046	4006.7	3937.368
-1.11277	0.52607	0.89866	283.0698	252.2459
1.02925	0.83437	1.02925	480.0021	503.5428
-1.11886	0.44248	0.89376	645.5169	573.7424
-1.10821	0.23288	0.90235	1454.547	1309.787
1.02528	0.69105	1.02528	1007.893	1033.424
-1.16607	0.01376	0.85758	2500.701	2134.683
-1.00755	0.89809	0.99251	2497.184	2478.95
-1.0023	0.98925	0.9977	263.6757	260.0141
-1.2739	0.00001	0.78499	7743.139	6027.849
-1.08202	0.45893	0.9242	856.9617	797.6578
1.05782	0.39218	1.05782	2114.111	2221.246
1.0894	0.47508	1.0894	430.3655	471.9867
1.01627	0.77285	1.01627	2846.236	2891.11
-1.26505	0.04855	0.79049	928.2795	741.5256
1.101	0.44313	1.101	1045.318	1148.479
1.04483	0.54398	1.04483	679.8469	710.7772
-1.10715	0.23503	0.90322	11006.34	9654.357
1.00673	0.95089	1.00673	3274.224	3206.618
1.00695	0.94559	1.00695	1704.314	1703.457
1.21396	0.11319	1.21396	634.8285	760.6348
1.18172	0.22105	1.18172	664.2374	799.297
-1.07854	0.45901	0.92718	867.9226	810.7093
1.02732	0.66174	1.02732	1329.266	1366.214
-1.19229	0.868	0.83872	52.86294	45.66369
1.02179	0.88205	1.02179	246.7797	251.3815

1.12356	0.04755	1.12356	1411.275	1584.266
1.00858	0.92439	1.00858	699.6674	701.6246
1.14307	0.51919	1.14307	336.9632	391.2966
-1.05204	0.72563	0.95054	540.8101	510.5722
1.00954	0.89803	1.00954	1782.454	1799.051
1.10872	0.41154	1.10872	7442.806	7875.308
-1.04897	0.47579	0.95332	702.7312	669.7961
-1.18001	0.00259	0.84745	1710.583	1449.671
-1.03905	0.92905	0.96242	136.8047	137.2272
1.19784	0.00039	1.19784	2068.503	2475.78
1.1075	0.52066	1.1075	214.0085	236.3783
1.04986	0.49495	1.04986	1503.977	1577.569
-1.01659	0.86113	0.98368	588.984	583.1987
-1.00826	0.96135	0.9918	263.5192	261.4327
-1.05351	0.39821	0.94921	1324.719	1259.021
1.16529	0.81531	1.16529	52.96235	62.71069
-1.10325	0.5507	0.90642	404.4863	364.3575
1.06099	0.17475	1.06099	3215.283	3410.64
1.10536	0.33637	1.10536	3137.39	3538.726
1.00293	0.9755	1.00293	621.249	623.7319
1.18686	0.13235	1.18686	913.8195	1073.352
1.19434	0.68861	1.19434	105.3108	120.3261
1.06622	0.21988	1.06622	1278.073	1362.856
-1.47917	3.77E-11	0.67606	6588.265	4434.467
1.01281	0.93832	1.01281	275.9807	280.1368
1.01142	0.8648	1.01142	2469.53	2495.34
1.10654	0.30791	1.10654	962.4172	1056.449
1.01782	0.77198	1.01782	869.0393	883.5938
1.0034	0.97041	1.0034	639.0893	636.8917
1.09232	0.76278	1.09232	136.3288	148.6218
1.01116	0.87858	1.01116	901.4003	909.4474
1.58912	7.49E-11	1.58912	12631.84	20351.71
1.32397	0.00004	1.32397	1549.618	2049.365
1.16613	0.18069	1.16613	638.3951	736.0543
-1.19669	0.02515	0.83564	1128.952	949.6278
1.20492	0.0091	1.20492	978.6707	1178.665
1.08593	0.48465	1.08593	374.0083	404.2039
-1.1385	0.09779	0.87835	9964.991	8533.238
-1.12889	0.30112	0.88583	959.6422	855.1106
-1.23896	0.01721	0.80713	4916.02	3920.62
-1.11912	0.4096	0.89356	976.1024	884.1785
1.41323	0.00002	1.41323	1186.993	1684.94
1.00343	0.95593	1.00343	4851.299	4881.535
1.05429	0.56727	1.05429	1000.168	1058.945
1.10426	0.36108	1.10426	470.0938	516.168
1.31209	0.00103	1.31209	2029.481	2635.476
1.01987	0.87072	1.01987	399.9908	410.9847
-1.0307	0.53097	0.97021	2271.303	2202.279
-1.19976	0.00311	0.8335	4237.859	3547.406
-1.00605	0.92984	0.99399	1948.684	1939.123
1.05901	0.61414	1.05901	412.2994	434.2307
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1.03396	0.7314	1.03396	897.1498	927.7725
1.14483	0.02574	1.14483	3860.008	4438.575
-1.01475	0.87481	0.98546	2139.109	2103.914
1.115	0.36786	1.115	438.2322	483.3644
1.06283	0.86454	1.06283	138.795	146.4787
-1.00356	0.96236	0.99645	621.5897	619.4654
1.04112	0.91239	1.04112	119.6353	124.2733
-1.04561	0.78766	0.95638	402.4465	386.8096
-1.04199	0.67302	0.9597	666.023	644.0652
-1.23329	0.00078	0.81084	4000.555	3215.403
-1.0884	0.34241	0.91878	1467.885	1354.537
1.07239	0.72265	1.07239	315.8476	335.402
-1.04316	0.62888	0.95863	6903.077	6521.267
1.12058	0.25817	1.12058	466.1177	524.377
-1.01169	0.92757	0.98845	571.169	567.3618
1.05833	0.48038	1.05833	586.0558	622.4708
1.14015	0.11281	1.14015	1583.873	1806.951
-1.13006	0.1297	0.88491	520.3646	460.8892
1.07073	0.24624	1.07073	1523.241	1630.044
1.21547	0.00009	1.21547	1689.069	2052.387
-1.00574	0.92774	0.99429	764.7014	760.7268
1.23046	0.09033	1.23046	1061.867	1287.119
-1.00362	0.96141	0.99639	1987.508	1975.943
1.1703	0.40286	1.1703	219.0533	253.2715
-1.03655	0.87603	0.96474	298.6605	280.3503
-1.03652	0.73218	0.96477	7866.271	7347.012
-1.05269	0.7818	0.94995	274.5378	259.0441
1.02001	0.77378	1.02001	1189.138	1214.518
1.01356	0.79501	1.01356	1359.996	1378.44
1.52606	2.51E-16	1.52606	1731.389	2648.086
1.05847	0.89973	1.05847	127.6834	141.6178
1.10745	0.34629	1.10745	424.4296	467.0853
1.11849	0.25136	1.11849	398.2728	446.7199
-1.44301	3.68E-06	0.69299	14673.57	9885.757
-1.36218	9.92E-09	0.73412	8824.127	6528.126
1.188	0.00017	1.188	2192.146	2604.814
-1.0379	0.89749	0.96348	203.2726	200.5358
-1.26546	0.01415	0.79023	3783.168	2942.441
1.48385	6.13E-07	1.48385	24775.23	37604.92
1.41137	0.01446	1.41137	442.6554	637.8231
-1.35123	0.00036	0.74006	959.6051	713.9258
1.41081	0.01051	1.41081	382.3387	531.4384
1.02268	0.8975	1.02268	307.3989	320.9981
-1.074	0.47729	0.93109	671.7529	620.8334
-1.11086	0.54991	0.9002	378.6915	343.1342
-1.00092	0.99017	0.99908	1073.825	1072.484
1.08391	0.37016	1.08391	1006.488	1087.449
-1.03894	0.80314	0.96252	352.3386	343.2752
1.04807	0.57319	1.04807	2901.4	3059.343
1.01998	0.94449	1.01998	173.3992	177.8219
1.01402	0.85571	1.01402	1470.472	1495.356

-1.0223	0.82879	0.97819	1613.201	1565.091
-1.10024	0.28238	0.90889	848.1169	767.8422
-1.21252	0.04847	0.82473	783.2529	650.5233
-1.44963	0.01864	0.68983	1152.553	798.9208
1.22611	0.27906	1.22611	202.6714	251.1587
1.12732	0.2305	1.12732	576.5418	654.5689
1.00825	0.90083	1.00825	1609.047	1617.646
-1.24913	0.02872	0.80056	4040.304	3179.143
-1.17975	0.05386	0.84764	2934.287	2466.226
1.0008	0.99515	1.0008	589.4388	599.9611
-1.00312	0.973	0.99689	970.6921	960.3267
1.09538	0.59615	1.09538	234.8123	254.887
1.03266	0.66341	1.03266	892.3781	916.9345
-1.04305	0.40938	0.95873	1920.533	1842.251
-1.21686	0.00412	0.82179	2328.564	1921.636
-1.24291	0.27284	0.80456	248.1906	200.0791
-1.06021	0.38068	0.94321	1679.026	1580.934
1.03204	0.66417	1.03204	4294.085	4476.235
1.05847	0.40602	1.05847	7168.3	7489.548
1.12129	0.0968	1.12129	888.2568	996.533
1.06511	0.20303	1.06511	2175.135	2316.918
-1.04076	0.49436	0.96083	1838.522	1766.727
-1.03465	0.85467	0.96651	303.4134	294.444
-1.05309	0.48455	0.94959	1312.052	1241.353
1.05363	0.87632	1.05363	161.3519	169.1818
1.15817	0.39494	1.15817	296.4176	336.4847
-1.00332	0.95803	0.99669	1997.526	1992.145
1.00395	0.94922	1.00395	1867.325	1870.64
-1.02163	0.71512	0.97882	30231.79	29350
-1.19929	0.68696	0.83383	131.3367	111.6662
1.02477	0.62809	1.02477	1515.331	1552.739
1.52683	1.80E-07	1.52683	1255.897	1924.588
1.0798	0.48075	1.0798	814.1964	872.1317
1.08755	0.74877	1.08755	164.1216	175.5291
1.05468	0.58287	1.05468	1095.664	1151.153
-1.23328	0.74804	0.81085	78.44221	66.07731
1.01705	0.88349	1.01705	489.926	497.8099
-1.04204	0.56529	0.95965	577.6017	554.3646
-1.09132	0.36479	0.91632	749.7737	693.0413
1.10305	0.36661	1.10305	655.5913	730.7476
-1.27923	0.00358	0.78172	963.5048	750.7616
1.02309	0.85158	1.02309	703.0326	708.7664
1.2499	0.072	1.2499	362.3627	449.3381
1.17545	0.79041	1.17545	54.66843	63.68043
-1.40955	0.01434	0.70944	1809.442	1304.039
1.04654	0.57391	1.04654	616.7964	647.3554
1.06119	0.42104	1.06119	1108.917	1174.189
1.27109	0.00347	1.27109	682.8231	871.61
-1.09435	0.31738	0.91378	1651.908	1508.933
1.11236	0.01516	1.11236	5676.538	6323.182
1.09096	0.48083	1.09096	483.7909	520.8704
1.07315	0.4608	1.07315	655.4396	709.39

1.03619	0.69544	1.03619	1977.029	2037.032
-1.13881	0.2211	0.87811	807.1992	704.6824
-1.01722	0.71969	0.98307	4153.423	4086.108
-1.14228	0.27399	0.87544	1444.054	1254.066
1.24659	0.01234	1.24659	1302.174	1622.417
-1.02367	0.78208	0.97688	1442.958	1416.506
-1.07753	0.3442	0.92805	1456.443	1346.13
1.1756	0.24858	1.1756	2779.049	3171.773
-1.04547	0.38784	0.9565	57402.91	54629.17
1.25207	0.00129	1.25207	2592.928	3219.963
1.074	0.10411	1.074	9387.336	10062.85
1.1533	0.18295	1.1533	515.4504	589.7138
1.1872	0.00314	1.1872	4080.97	4859.862
-1.18357	0.16708	0.8449	1129.335	945.5785
-1.02592	0.7413	0.97474	1323.56	1287.352
-1.36968	0.0149	0.7301	2801.55	1983.851
-1.03072	0.61664	0.9702	1892.042	1841.197
1.37734	0.00431	1.37734	2140.265	3016.044
1.01963	0.72004	1.01963	2459.875	2505.477
-1.08933	0.28185	0.918	2668.36	2432.345
1.07038	0.18527	1.07038	1683.861	1803.013
1.04217	0.39613	1.04217	4033.558	4196.531
1.0145	0.80344	1.0145	3553.94	3598.887
1.54671	1.51E-06	1.54671	532.79	821.2357
-1.23461	0.42473	0.80997	253.4311	215.1129
-1.07101	0.43932	0.9337	2152.453	2013.57
1.1259	0.56586	1.1259	335.3257	398.7708
-1.1404	0.22757	0.87689	816.3495	716.738
-1.01132	0.90922	0.98881	634.0829	622.2864
1.10847	0.2448	1.10847	2542.599	2878.079
-1.06633	0.76144	0.9378	286.7846	279.1805
1.08659	0.17745	1.08659	992.1797	1077.795
-1.13579	0.078	0.88044	10385.16	9330.129
1.2899	0.00398	1.2899	3569.059	4491.934
-1.15736	0.6609	0.86404	131.5389	113.6984
1.02734	0.75957	1.02734	956.1828	978.4833
-1.01446	0.75084	0.98574	2001.802	1973.833
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1.06616	0.19045	1.06616	2935.669	3126.048
-1.51975	1.61E-07	0.658	1624.907	1070.407
-1.37217	0.6018	0.72877	93.53228	66.34059
-1.09766	0.15681	0.91103	1129.568	1029.233
-1.0654	0.35214	0.93861	901.8884	848.5591
-1.00732	0.86207	0.99273	3731.965	3704.637
1.11894	0.13166	1.11894	3251.644	3652.197
1.11059	0.33623	1.11059	516.7396	577.4655
-1.65443	2.95E-10	0.60444	9559.293	5653.999
-1.02918	0.71205	0.97165	932.7959	911.0797
-1.63025	0.00015	0.6134	3138.917	1881.458
-1.00551	0.97996	0.99452	284.5933	287.2553
1.06008	0.35261	1.06008	2514.398	2665.869
1.25473	0.00241	1.25473	1807.36	2255.175

1.19523	0.00209	1.19523	4385.187	5208.02
1.03979	0.77019	1.03979	323.0092	335.8608
1.00804	0.88037	1.00804	2141.213	2156.994
1.0868	0.30266	1.0868	486.1627	527.5751
1.04477	0.37112	1.04477	16968.88	17671.28
1.02262	0.62772	1.02262	2021.648	2075.351
1.02267	0.68472	1.02267	1476.688	1510.655
1.11405	0.15315	1.11405	726.3292	810.5001
-1.15919	0.00312	0.86267	2262.196	1952.531
1.30757	0.02718	1.30757	821.023	1067.15
1.14765	0.01799	1.14765	3422.751	3944.497
-1.0315	0.73543	0.96946	1284.289	1246.844
1.00223	0.9776	1.00223	986.9111	988.0499
1.07449	0.6756	1.07449	374.5055	403.9507
1.02087	0.84286	1.02087	612.1712	620.8817
1.03195	0.74859	1.03195	584.5961	599.3328
-1.10181	0.75725	0.9076	182.1584	164.6393
-2.37841	0.00123	0.42045	1042.714	443.8236
1.32389	0.00012	1.32389	1900.454	2522.152
1.00904	0.87259	1.00904	1332.73	1345.033
-1.04656	0.49812	0.95551	872.3355	835.9969
-1.12999	0.56155	0.88496	354.8716	328.713
-1.09671	0.08806	0.91182	10971.67	9957.057
1.26824	0.00852	1.26824	503.0754	639.6387
-1.07351	0.28723	0.93152	3679.115	3398.51
-1.06999	0.46444	0.93458	4975.263	4536.487
-1.117	0.28574	0.89525	873.3813	787.5131
1.07149	0.54404	1.07149	355.0886	380.3604
1.18808	0.00548	1.18808	1199.108	1424.041
-1.25452	0.00004	0.79712	2090.22	1666.202
1.00205	0.99265	1.00205	214.5287	215.7427
1.02041	0.77168	1.02041	2094.83	2136.57
-1.17457	0.09359	0.85137	1251.75	1068.014
1.01495	0.92037	1.01495	515.121	536.6953
1.11935	0.15507	1.11935	635.098	710.3517
-1.001	0.99517	0.999	295.8608	295.7499
1.03789	0.75809	1.03789	3765.009	3920.611
-1.09386	0.28602	0.91419	20670.38	18539.2
1.01704	0.74221	1.01704	2541.297	2589.081
1.41062	0.38744	1.41062	106.6362	148.2798
1.01186	0.98002	1.01186	111.8519	113.7345
-1.01468	0.94692	0.98554	243.8834	235.1547
1.0294	0.72043	1.0294	762.9605	781.9742
-1.00032	0.99858	0.99968	265.9747	265.6165
1.14029	0.47359	1.14029	250.4881	282.5416
-1.61653	1.55E-11	0.61861	3075.576	1887.716
-1.09215	0.23633	0.91563	1596.318	1463.653
1.21804	0.02412	1.21804	873.6367	1060.66
-1.02771	0.7017	0.97304	1111.709	1081.666
-1.02716	0.84019	0.97356	452.9459	437.147
-1.0035	0.9685	0.99651	786.5752	786.9733
-1.6077	9.12E-06	0.62201	3500.696	2164.746

1.19958	0.0184	1.19958	5990.854	7094.04
-1.1565	0.03085	0.86468	7644.71	6541.365
1.00039	0.99519	1.00039	1070.104	1070.264
-1.08757	0.77452	0.91948	193.2013	178.5606
1.03438	0.67903	1.03438	571.9061	589.6462
-1.00835	0.88211	0.99172	1294.97	1282.275
1.06677	0.283	1.06677	1487.175	1588.226
-1.00821	0.96443	0.99186	280.4093	277.5182
1.17283	0.00413	1.17283	7375.322	8606.077
-1.17217	0.16092	0.85312	3882.301	3339.44
-1.62792	1.99E-08	0.61428	11106.04	6933.096
-1.08765	0.81275	0.91941	157.6889	143.1552
1.1654	0.06817	1.1654	917.7433	1065.834
1.09405	0.75272	1.09405	198.6623	221.0377
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1.019	0.77808	1.019	1437.538	1460.591
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-1.12669	0.01507	0.88756	3479.444	3080.994
1.00577	0.96433	1.00577	288.6546	291.3243
1.05234	0.56083	1.05234	894.6974	949.0328
1.5692	3.56E-22	1.5692	20227.74	31672.37
-1.03694	0.93327	0.96437	121.1206	115.9434
-1.22165	0.00019	0.81857	5392.528	4395.373
1.02473	0.69401	1.02473	910.9772	933.8544
1.01805	0.71658	1.01805	2933.627	2987.212
-1.01037	0.8825	0.98973	941.0326	933.7612
-1.08282	0.55971	0.92352	1330.254	1228.511
1.17448	0.06108	1.17448	9000.877	10732.47
-1.24427	0.00754	0.80369	899.5144	726.7484
-1.13909	0.08104	0.87789	660.1569	578.6226
-1.04104	0.5096	0.96058	4547.757	4361.07
-1.07265	0.68722	0.93227	448.5175	414.5329
1.21216	0.00214	1.21216	7979.125	9613.153
1.01405	0.85659	1.01405	1380.171	1401.202
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1.06235	0.76808	1.06235	218.6471	232.1246
1.39126	3.60E-11	1.39126	2093.828	2916.846
1.0012	0.9941	1.0012	382.8941	375.2179
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1.03749	0.86976	1.03749	177.3955	183.9995
1.18138	0.16503	1.18138	356.095	417.5878
-1.13854	0.24961	0.87832	396.0829	349.5283
-1.11158	0.3076	0.89962	2809.26	2464.357
1.03467	0.91635	1.03467	143.3256	148.3527
1.05519	0.58329	1.05519	527.1721	552.5892
1.03723	0.73647	1.03723	11083.79	11077.97
-1.18817	0.68026	0.84163	147.2611	121.4077
1.09071	0.59367	1.09071	355.5471	389.0747
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1.16142	0.66663	1.16142	106.6897	125.5226
-1.14013	0.76727	0.8771	133.3453	119.8347
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1.00242	0.97218	1.00242	5176.37	5241.516
1.00188	0.98541	1.00188	497.5814	499.6329
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1.07534	0.50294	1.07534	18834.1	19648.96
1.02939	0.92185	1.02939	164.0758	168.6909
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-1.05807	0.51129	0.94512	684.2967	647.5453
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1.18053	0.11341	1.18053	902.4028	1057.7
1.02728	0.75752	1.02728	945.5356	973.4822
1.05114	0.28387	1.05114	1954.209	2053.802
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1.00226	0.97956	1.00226	482.134	484.0591
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1.00458	0.9258	1.00458	6888.398	6929.896
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1.2325	0.05306	1.2325	686.3989	838.5239
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1.03014	0.65209	1.03014	1800.238	1850.995
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-1.155	0.14397	0.8658	4056.789	3550.042
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1.01034	0.86741	1.01034	1055.896	1069.779
1.05767	0.95085	1.05767	57.9772	57.03901
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1.00506	0.97061	1.00506	614.8856	630.2487
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1.12037	0.14093	1.12037	707.6506	793.9019
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1.09472	0.63442	1.09472	215.9353	237.5818
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1.16338	0.03352	1.16338	1517.025	1768.268
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1.09153	0.52841	1.09153	546.1543	583.4544
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-1.02826	0.58533	0.97252	3083.818	3003.514
1.28542	0.00034	1.28542	9543.819	12154.24
-1.11512	0.66609	0.89677	239.4326	214.408
-1.05649	0.34194	0.94653	983.4958	930.8571
-1.12532	0.02806	0.88864	1453.344	1290.809
-1.08526	0.67321	0.92144	248.6292	229.9896
-1.05923	0.50395	0.94408	527.4238	499.2761
1.51462	2.03E-13	1.51462	4996.813	7607.89
-1.0254	0.75457	0.97523	2357.303	2308.853
-1.12518	0.27855	0.88875	1976.9	1740.616
-1.09737	0.05668	0.91127	4481.084	4077.684
-1.02754	0.78598	0.9732	446.6187	433.3271
1.03828	0.68982	1.03828	1066.684	1110.552
1.17722	0.68276	1.17722	103.4202	121.8978
-1.1013	0.14511	0.90801	1769.497	1602.756
1.10301	0.33588	1.10301	1228.16	1352.641
1.04746	0.47276	1.04746	3436.241	3613.2
1.03367	0.6904	1.03367	660.7696	685.2461
1.04195	0.51471	1.04195	1427.43	1485.889
1.02792	0.8608	1.02792	313.2426	321.8955
1.02027	0.84744	1.02027	1219.613	1249.001
-1.00215	0.99067	0.99786	352.6214	351.6345
-1.11254	0.06361	0.89884	4674.383	4229.009
-1.0112	0.88271	0.98893	618.7762	613.2726
-1.01009	0.91122	0.99001	1130.288	1131.06
-1.04323	0.54386	0.95856	10854.55	10582.4
-1.01496	0.76843	0.98526	2343.664	2306.464
-1.0773	0.66262	0.92825	501.6231	457.0186
-1.01148	0.94372	0.98865	351.7957	346.1401
-1.07602	0.90611	0.92935	92.85102	84.20557
-1.01265	0.92305	0.98751	432.96	427.5341
-1.00618	0.92857	0.99386	681.8416	677.5245
1.11124	0.56769	1.11124	247.9431	271.2764
-1.04929	0.76168	0.95303	486.8637	468.3168
-1.02413	0.74837	0.97643	799.4601	783.7394
-1.19412	0.0148	0.83744	9417.628	7798.855
1.00386	0.96701	1.00386	773.9029	781.1245
-1.03916	0.64851	0.96232	800.6034	775.0125
1.92977	3.29E-32	1.92977	928.9618	1792.693
1.02939	0.63387	1.02939	1041.025	1071.071
1.10948	0.63884	1.10948	227.6288	253.8792
1.01345	0.87543	1.01345	3426.441	3437.692
1.03105	0.8536	1.03105	301.983	316.379
-1.02214	0.65623	0.97834	6256.017	6122.642
-1.08925	0.45982	0.91806	455.0532	420.4357
-1.10586	0.73247	0.90428	185.4081	167.0333

-1.13165	0.2116	0.88367	1364.319	1203.966
1.14567	0.0109	1.14567	2891.911	3298.525
-1.24587	0.06389	0.80265	5379.872	4205.135
-1.21494	0.00284	0.82309	15506.66	12577.82
-1.15397	0.16112	0.86657	769.4314	666.7942
-1.00641	0.89816	0.99363	4696.3	4667.217
-1.12821	0.07425	0.88636	1606.287	1421.208
1.14772	0.02483	1.14772	3213.177	3663.243
-1.05616	0.58446	0.94683	807.9407	764.9912
-1.01474	0.85826	0.98547	651.2775	639.2533
1.0355	0.70575	1.0355	899.2398	936.8709
1.56003	0.02758	1.56003	193.4058	302.0087
1.47274	0.00102	1.47274	645.3247	941.8563
-1.01598	0.85526	0.98427	522.8821	514.4746
1.14664	0.35286	1.14664	3497.595	4260.965
-1.00591	0.92207	0.99413	1040.752	1033.573
1.06694	0.67549	1.06694	318.326	339.8959
-1.14728	0.33715	0.87162	457.066	405.7121
1.22341	0.07743	1.22341	7329.778	9334.633
1.44328	0.01423	1.44328	441.1397	652.3563
1.05215	0.29231	1.05215	19409.7	20514.68
-1.05007	0.33645	0.95232	5005.559	4762.794
1.35653	4.00E-07	1.35653	6199.645	8476.834
1.05935	0.27577	1.05935	2560.783	2721.612
1.01315	0.78852	1.01315	24051.66	24453.75
1.01992	0.9568	1.01992	133.5656	132.1537
1.01194	0.87221	1.01194	769.9069	781.1939
-1.23517	0.00743	0.8096	1970.941	1589.181
-1.58956	1.43E-10	0.6291	2961.284	1845.844
1.04753	0.6594	1.04753	517.5524	545.023
1.05499	0.43788	1.05499	954.2888	1007.723
-1.31925	0.00433	0.758	2682.359	1994.468
-1.01866	0.8761	0.98168	517.5156	513.9372
-1.25118	0.18165	0.79924	352.992	286.4798
1.17216	0.11835	1.17216	627.5676	729.3264
1.06602	0.46638	1.06602	2368.944	2525.583
1.03109	0.78938	1.03109	495.2535	505.5345
1.0061	0.88916	1.0061	7703.585	7740.323
-1.06328	0.38012	0.94048	5319.841	4935.21
1.07892	0.22274	1.07892	1021.734	1102.765
1.00437	0.9539	1.00437	733.0094	738.4097
-1.0815	0.07644	0.92464	4510.25	4166.994
1.06308	0.43625	1.06308	821.176	870.4269
-1.01747	0.93682	0.98283	275.7382	268.8658
1.10277	0.20957	1.10277	4531.479	4993.985
-1.02311	0.83987	0.97741	355.8007	347.8319
-1.0493	0.34322	0.95301	4383.775	4185.066
-1.12574	0.45829	0.88831	504.3021	447.1133
1.56875	0.00163	1.56875	972.3062	1531.999
1.27215	0.00003	1.27215	3074.764	3895.818
-1.03057	0.58544	0.97034	4944.438	4846.674
-1.04971	0.54886	0.95265	781.1411	748.1346

1.00549	0.95588	1.00549	943.6492	957.0886
1.15335	0.15158	1.15335	395.8809	456.6187
-1.04367	0.41937	0.95815	1319.943	1265.238
-1.15292	0.45475	0.86737	479.8427	430.2717
1.17999	0.00372	1.17999	1118.422	1320.731
-1.01782	0.94619	0.98249	210.5929	208.7878
1.00481	0.95792	1.00481	1118.284	1123.956
1.13557	0.47854	1.13557	642.6155	721.9609
-1.25701	0.00232	0.79554	14069.45	10944.07
1.09958	0.80594	1.09958	127.0927	134.1855
-1.51468	0.01424	0.66021	664.2708	451.4338
1.01294	0.78001	1.01294	3085.351	3124.725
-1.14771	0.00572	0.8713	13232.54	11476.07
1.00769	0.87997	1.00769	2871.653	2888.119
1.04765	0.66176	1.04765	455.8692	478.8749
1.00986	0.90781	1.00986	518.9775	525.1425
-1.1833	0.30317	0.8451	270.5495	228.7651
-1.00002	0.99983	0.99998	535.8725	537.2405
1.28163	0.00946	1.28163	9226.635	11903.54
1.09098	0.35159	1.09098	540.7416	592.73
1.21908	0.02319	1.21908	880.7647	1068.667
1.02743	0.78932	1.02743	686.1541	710.2318
1.0598	0.51806	1.0598	1078.937	1131.354
-1.06539	0.19181	0.93863	1456.348	1366.979
-1.16959	0.00706	0.855	2223.241	1897.174
-1.01292	0.84937	0.98724	2782.125	2732.976
1.12254	0.59683	1.12254	193.7916	220.2604
1.18278	0.02751	1.18278	2194.664	2610.638
1.0575	0.68181	1.0575	648.5376	699.0663
1.18323	0.19759	1.18323	447.0137	520.9547
1.14541	0.00085	1.14541	6192.096	7092.535
1.05097	0.92068	1.05097	106.2623	114.5877
-1.06149	0.59076	0.94207	473.1004	445.7137
1.19766	0.06806	1.19766	1126.263	1351.638
-1.6687	2.14E-10	0.59927	3807.418	2246.681
-1.13789	0.20395	0.87882	816.7974	723.7799
1.04814	0.62953	1.04814	693.6908	724.3502
1.22793	0.08711	1.22793	661.8488	803.2867
-1.0854	0.22972	0.92132	697.316	642.26
1.01187	0.8292	1.01187	1639.664	1661.615
1.0358	0.88062	1.0358	166.7365	172.6929
1.04848	0.4094	1.04848	936.4486	980.9227
-1.09503	0.32941	0.91322	951.6008	872.3998
-1.29633	0.05094	0.77141	1490.499	1164.331
-2.73727	9.28E-14	0.36533	56103.94	20496.31
-1.09348	0.03788	0.91451	9261.206	8459.025
1.12789	0.84962	1.12789	82.2354	96.60913
1.03854	0.53147	1.03854	1200.677	1247.522
1.32546	0.12545	1.32546	300.287	385.4136
-1.11342	0.1464	0.89813	3181.156	2861.944
-1.03299	0.69876	0.96807	5250.04	5251.183
1.00756	0.90772	1.00756	9617.424	9645.459

1.01282	0.8968	1.01282	482.9634	487.1827
-1.09421	0.43491	0.9139	814.1188	753.954
1.10528	0.32434	1.10528	569.8346	624.4877
1.02673	0.81714	1.02673	633.7463	643.4968
-2.16762	1.09E-13	0.46134	6028.918	2712.183
1.05289	0.57813	1.05289	815.4845	862.2993
-1.17702	0.03182	0.8496	4299.84	3623.666
1.08583	0.26359	1.08583	579.1486	629.9498
-1.46822	1.69E-07	0.6811	923.97	628.4536
-1.01286	0.87801	0.98731	640.1304	631.3538
1.05087	0.68067	1.05087	341.2377	357.4619
1.06851	0.56096	1.06851	809.5683	854.8115
-1.23017	0.00001	0.8129	1689.999	1373.8
-1.08469	0.60901	0.92192	391.4759	361.2808
-1.00146	0.98451	0.99854	2524.369	2552.152
1.0373	0.55044	1.0373	3106.546	3230.619
1.01721	0.76189	1.01721	1174.041	1192.199
-1.02143	0.72948	0.97902	910.3986	891.4962
-1.07058	0.48927	0.93407	1275.834	1198.469
1.13488	0.38224	1.13488	471.4862	547.6066
-1.13778	0.17304	0.87891	1435.718	1264.22
1.17618	0.01628	1.17618	2419.263	2828.195
-1.01791	0.67546	0.9824	2380.612	2338.836
1.25432	0.08459	1.25432	1869.595	2294.225
-1.10402	0.30025	0.90578	10223.11	9091.94
-1.14642	0.23294	0.87228	921.1062	810.1399
-1.01481	0.75792	0.9854	5458.707	5364.494
1.04167	0.42529	1.04167	2521.006	2631.989
-1.06174	0.6209	0.94185	721.1174	688.1595
1.08754	0.54146	1.08754	256.782	278.4298
-1.00047	0.99471	0.99953	1321.98	1322.907
-1.13592	0.06006	0.88034	3544.26	3087.488
1.03343	0.52196	1.03343	2294.37	2368.054
-1.04634	0.39564	0.95571	2348.928	2240.479
-1.00417	0.9658	0.99585	511.1425	508.8196
1.06175	0.70756	1.06175	255.6993	273.0009
-1.22196	0.00002	0.81836	5168.934	4222.034
-1.01129	0.86854	0.98884	1334.171	1319.573
1.36248	0.00167	1.36248	743.3012	1006.653
1.08262	0.66701	1.08262	247.8123	266.5406
1.06363	0.40296	1.06363	1338.93	1420.812
1.27279	0.00109	1.27279	1611.7	2045.304
-1.10877	0.32016	0.9019	786.7575	716.4953
1.11369	0.76368	1.11369	129.4645	144.3297
-1.00258	0.9664	0.99742	2986.375	2981.159
-1.05451	0.71226	0.9483	468.4705	442.7656
1.13151	0.40592	1.13151	248.0677	280.0667
1.16541	0.24379	1.16541	321.9449	372.7034
1.10823	0.54817	1.10823	298.7884	325.6313
1.0891	0.23174	1.0891	2479.721	2731.989
-1.52312	0.00288	0.65655	3027.009	1902.48
1.17669	0.15745	1.17669	37755.3	43209.75

-1.01956	0.83919	0.98082	963.1599	934.9591
1.35887	2.88E-08	1.35887	1712.228	2329.658
-1.02939	0.83806	0.97145	421.8051	409.6735
-1.27877	0.0009	0.782	850.7908	664.0574
-1.00405	0.98175	0.99597	378.7065	381.0525
1.03117	0.4971	1.03117	2240.039	2310.067
1.04627	0.72056	1.04627	505.98	521.9573
-1.12441	0.60746	0.88936	318.0869	274.9581
1.01585	0.95285	1.01585	168.2069	170.8436
1.06428	0.50279	1.06428	445.3502	474.4799
-1.09865	0.187	0.91021	2434.376	2216.916
-1.01079	0.85891	0.98933	14141.39	13885.51
1.02392	0.66586	1.02392	988.9324	1012.62
-1.30492	0.01677	0.76633	610.9767	471.0512
1.07427	0.2621	1.07427	8347.942	8989.709
1.02261	0.7946	1.02261	726.1169	746.3676
-1.04266	0.34603	0.95908	6237.271	5990.886
-1.62134	0.12676	0.61677	15383.08	9120.439
-1.03826	0.89133	0.96315	215.7349	211.9709
-1.08964	0.42989	0.91774	437.6209	403.2961
-1.12171	0.12553	0.8915	1463.841	1308.029
-1.06188	0.71426	0.94172	390.9365	366.9813
-1.0836	0.89212	0.92285	96.40126	86.90278
1.43936	0.00117	1.43936	815.0871	1182.594
1.23519	0.11375	1.23519	350.0873	431.8503
1.07626	0.52971	1.07626	486.9339	519.0962
-1.36077	0.02205	0.73488	553.692	412.4536
1.06156	0.59142	1.06156	27515.96	28759.51
-1.45663	0.0035	0.68652	3248.516	2170.045
1.00584	0.90813	1.00584	3076.787	3097.855
-3.15225	1.83E-24	0.31723	8952.127	2721.255
1.06866	0.30156	1.06866	904.6781	968.2758
1.18385	0.0442	1.18385	805.3494	949.1986
1.04613	0.35153	1.04613	2086.289	2179.956
-1.03414	0.4625	0.96699	5587.495	5402.903
1.01074	0.82562	1.01074	2482.28	2509.661
1.02205	0.90964	1.02205	308.5444	326.2437
1.14825	0.19759	1.14825	386.4766	441.4603
1.06459	0.91433	1.06459	92.07177	102.1086
1.00403	0.97836	1.00403	822.1957	838.6304
-1.05362	0.8936	0.94911	140.3145	134.2745
1.09796	0.43767	1.09796	333.0584	365.0618
1.08175	0.13138	1.08175	1818.535	1965.797
1.03821	0.87918	1.03821	145.0592	150.3535
1.13844	0.14746	1.13844	4999.287	5724.496
-1.11932	0.50557	0.8934	424.7846	377.7426
1.24941	0.00001	1.24941	1833.117	2292.083
-1.15395	0.17597	0.86659	546.7913	475.7109
1.01944	0.86891	1.01944	655.8366	668.0852
1.00878	0.90944	1.00878	2163.521	2209.392
-1.00545	0.96536	0.99458	346.1309	343.621
1.31629	0.0042	1.31629	1990.052	2660.694

-1.08348	0.52377	0.92295	540.8763	499.2252
-1.04152	0.48714	0.96014	1639.915	1576.662
-1.16624	0.81919	0.85745	88.54557	73.64868
-1.16474	0.57993	0.85856	188.831	165.0803
1.12575	0.53374	1.12575	226.2428	251.3098
-1.10784	0.66619	0.90266	282.6025	261.1083
1.00506	0.90759	1.00506	3717.021	3736.101
1.00681	0.91499	1.00681	2235.738	2266.637
1.04061	0.51203	1.04061	1196.281	1243.67
-1.06128	0.70224	0.94226	357.1439	337.1412
-1.18165	0.35246	0.84627	413.8774	345.8615
-1.09231	0.54564	0.91549	301.5831	274.4634
1.2091	0.00037	1.2091	4439.859	5355.873
-1.00319	0.95641	0.99682	47950.34	47418.4
1.34349	0.00022	1.34349	1514.347	2026.637
-1.01193	0.94149	0.98821	295.693	295.9058
-1.0108	0.80532	0.98932	3012.625	2979.261
-1.2056	0.83764	0.82946	64.91122	52.49771
1.10712	0.22847	1.10712	697.4645	774.074
-1.04607	0.3686	0.95596	6968.233	6628.119
-1.0758	0.57413	0.92954	494.8028	466.5443
-1.06581	0.16959	0.93826	3528.951	3315.781
-1.07384	0.8711	0.93124	104.3652	96.9481
1.09941	0.06774	1.09941	1863.377	2046.649
1.39825	0.00012	1.39825	5486.002	7596.61
1.18234	0.08817	1.18234	22697.23	27743.33
-2.60909	5.27E-25	0.38328	5315.472	1986.477
1.39257	7.16E-08	1.39257	2119.445	2956.349
1.0843	0.37482	1.0843	528.8597	575.3141
-1.06518	0.63623	0.93881	443.5862	421.8196
1.14186	0.23931	1.14186	698.8835	789.1904
1.01927	0.68689	1.01927	4082.283	4161.303
-1.03357	0.75736	0.96752	749.681	732.2689
1.00865	0.89861	1.00865	661.7924	668.4476
1.06348	0.79479	1.06348	234.8086	250.6061
1.15069	0.03769	1.15069	2873.901	3289.113
-1.12715	0.0354	0.8872	1732.642	1537.13
-1.09395	0.10892	0.91412	1820.428	1662.974
1.21212	0.0402	1.21212	12924.11	15274.13
-1.0556	0.53858	0.94733	922.9254	875.7415
-1.08991	0.55522	0.91751	3288.511	2895.192
1.00685	0.9518	1.00685	469.7446	470.6462
-1.2707	8.06E-08	0.78697	6442.541	5061.885
1.09756	0.15239	1.09756	707.5858	775.5328
1.03801	0.392	1.03801	5976.05	6205.382
-1.31966	0.02054	0.75777	2503.136	1824.458
1.0523	0.79228	1.0523	307.819	321.0201
1.09423	0.28157	1.09423	1228.082	1347.927
1.17122	0.00092	1.17122	10205.34	11917.49
-1.06285	0.47093	0.94087	1530.819	1438.971
1.07052	0.58936	1.07052	407.3737	433.1354
1.09075	0.24654	1.09075	1177.142	1282.337

-1.34228	0.16456	0.745	451.4406	353.2152
-1.08858	0.6225	0.91863	472.2025	428.5392
1.17797	0.08418	1.17797	678.5618	802.882
1.15928	0.0021	1.15928	2674.66	3096.786
-1.09587	0.39281	0.91252	1086.016	996.5835
1.13085	0.01252	1.13085	6706.52	7609.725
1.07359	0.43033	1.07359	914.0703	985.4858
-1.09208	0.46739	0.91568	16210.83	14164.24
1.15761	0.29701	1.15761	448.6309	511.5008
1.05706	0.3928	1.05706	4949.297	5165.507
-1.00275	0.99587	0.99726	83.52946	83.33007
1.18736	0.83853	1.18736	48.43227	57.88193
-1.12403	0.26919	0.88965	684.8373	609.2234
-1.09123	0.29169	0.9164	675.0197	618.0272
1.19857	0.43959	1.19857	175.2207	206.3774
1.08698	0.1279	1.08698	1811.531	1969.434
-1.03504	0.83484	0.96615	402.843	390.457
-1.11308	0.55992	0.89841	248.1914	225.5855
1.1067	0.3142	1.1067	578.0261	634.3303
1.00526	0.9805	1.00526	255.1173	256.1812
1.0286	0.82363	1.0286	315.8049	324.1111
-1.06115	0.65122	0.94237	597.4836	572.1871
-1.00014	0.99967	0.99986	168.5809	159.7574
1.09055	0.91972	1.09055	61.49453	61.5847
-1.0929	0.2267	0.91499	1171.509	1076.495
1.12139	0.13454	1.12139	5915.87	6526.593
-1.19847	0.10056	0.8344	774.7958	649.9651
-1.09901	0.07487	0.90991	1931.737	1757.036
-1.06466	0.45459	0.93927	648.9952	608.3024
1.20499	0.17195	1.20499	4717.549	5922.161
1.30493	0.00002	1.30493	1696.202	2208.967
1.03295	0.52399	1.03295	2117.823	2187.636
1.1013	0.58837	1.1013	289.8566	312.7155
1.39929	2.76E-08	1.39929	10403.22	14693.2
1.10384	0.52274	1.10384	304.1272	335.963
-1.00777	0.90849	0.99229	921.6653	917.1251
1.04143	0.58489	1.04143	2835.492	2949.172
1.01353	0.91495	1.01353	419.7145	425.0324
1.24984	0.09235	1.24984	476.9927	586.6138
-2.367	6.79E-17	0.42248	3201.099	1355.709
1	1	1	23.68426	22.36868
-1.02588	0.72004	0.97477	1872.128	1835.7
1.06517	0.62997	1.06517	49795.43	56530.6
-1.06322	0.26943	0.94054	16806.47	15700.3
-1.00992	0.86825	0.99018	1918.47	1901.857
-1.39222	0.00925	0.71828	686.8993	500.872
-2.0249	0.00006	0.49385	425.7984	213.8127
1.45807	0.0017	1.45807	541.8665	800.5619
-1.02566	0.74872	0.97499	525.141	512.3178
1.01945	0.93953	1.01945	186.0022	187.2629
-1.04066	0.61502	0.96093	819.171	791.532
1.00384	0.95895	1.00384	3895.549	3939.469

1.03169	0.7582	1.03169	2613.79	2660.293
-1.33986	2.61E-06	0.74634	2413.074	1792.772
1.01401	0.81616	1.01401	2323.362	2352.379
-1.14511	0.0046	0.87328	2023.323	1766.756
1.25613	0.03423	1.25613	783.9337	973.3696
-1.10849	0.612	0.90213	217.0253	195.7861
-1.02101	0.86509	0.97943	319.1394	311.4697
-1.01495	0.90548	0.98527	644.0255	644.2358
1.00828	0.89077	1.00828	3194.605	3252.98
1.09202	0.47608	1.09202	428.2778	463.7852
1.1542	0.06248	1.1542	1088.376	1253.163
-1.05681	0.49684	0.94624	582.1869	551.9605
1.01783	0.73564	1.01783	1863.647	1895.499
1.37001	0.0008	1.37001	644.0527	876.042
1.07135	0.42978	1.07135	394.3005	422.6381
-1.24707	0.00026	0.80188	20217.15	16346.12
-1.08224	0.16281	0.92401	12164.8	11170.56
1.11276	0.52839	1.11276	243.6232	271.8427
-1.17191	0.57252	0.85331	223.8237	194.4144
-1.08256	0.19517	0.92373	2429.212	2235.138
-1.34698	2.09E-17	0.7424	34958.17	26054.36
1.08562	0.75468	1.08562	249.7499	290.958
-1.15689	0.00177	0.86438	2682.455	2319.709
-1.60663	7.50E-06	0.62242	4038.323	2436.393
-1.00487	0.92684	0.99515	1569.053	1560.661
-1.22573	0.06039	0.81584	1373.198	1127.874
1.07341	0.31725	1.07341	10972.96	12010.93
1.17025	0.00292	1.17025	1939.282	2266.3
-1.01077	0.88909	0.98934	1347.947	1332.34
1.0058	0.90134	1.0058	3219.669	3242.321
-1.00735	0.89134	0.9927	2336.667	2318.662
-1.08009	0.21244	0.92585	1489.804	1380.583
1.03809	0.40903	1.03809	4534.352	4707.444
-1.00555	0.95103	0.99448	806.0818	807.1477
-1.1029	0.24312	0.9067	750.0354	682.4824
1.07009	0.12784	1.07009	2662.75	2849.503
-1.05097	0.52292	0.9515	10851.93	10141.24
-1.00867	0.88988	0.9914	1436.9	1424.052
-1.02655	0.75031	0.97413	1083.345	1052.275
-1.37244	0.58507	0.72863	88.88943	65.26003
-1.06709	0.68114	0.93713	301.5082	284.3754
1.07188	0.50028	1.07188	549.3157	583.8554
1.02146	0.85945	1.02146	2433.395	2457.338
1.14796	0.09147	1.14796	1511.172	1733.213
-1.16971	0.08352	0.85491	8097.042	7065.881
-1.1837	0.71255	0.84481	132.4368	115.2396
-1.14565	0.00475	0.87287	2798.042	2444.788
1.0141	0.76934	1.0141	5566.098	5654.065
-1.01436	0.91093	0.98584	876.6422	855.874
1.06944	0.17981	1.06944	6044.043	6491.6
1.06144	0.27519	1.06144	1299.605	1379.384
-1.02172	0.90174	0.97875	235.1836	230.1964

1.03844	0.73192	1.03844	520.783	545.1423
1.04069	0.52172	1.04069	5424.349	5640.515
-1.08171	0.52653	0.92446	1033.111	960.641
1.12442	0.35868	1.12442	325.8719	365.9185
1.00721	0.90199	1.00721	1821.952	1832.844
1.02973	0.73431	1.02973	686.1506	705.4388
-1.0084	0.91039	0.99167	9051.488	8805.926
1.01629	0.8673	1.01629	707.5369	724.4561
1.01437	0.82219	1.01437	9694.518	9870.543
-1.05173	0.77737	0.95081	316.4783	305.0921
1.06721	0.79132	1.06721	170.5974	179.0816
-1.04333	0.55305	0.95847	960.1224	920.621
1.00908	0.91472	1.00908	556.6379	561.5802
1.06897	0.26563	1.06897	1998.986	2131.303
-1.02176	0.78605	0.9787	9840.449	9417.027
1.01846	0.79142	1.01846	5543.3	5594.775
-1.05533	0.60889	0.94757	358.7385	340.1544
1.13219	0.32357	1.13219	1083.099	1221.839
1.01241	0.86271	1.01241	1984.81	2007.316
1.04209	0.66976	1.04209	638.1564	669.0673
1.08137	0.4008	1.08137	852.3236	916.1268
-1.14472	0.0951	0.87358	1150.645	1010.059
-1.04407	0.53103	0.95779	1096.834	1048.165
1.07672	0.35309	1.07672	5220.764	5529.255
-1.067	0.4126	0.93721	1089.539	1026.116
1.04286	0.75378	1.04286	307.074	319.3669
-1.01774	0.79027	0.98257	860.1571	844.7457
-1.03447	0.73261	0.96668	610.3298	594.564
-1.01113	0.90386	0.98899	987.9062	973.6978
1.04367	0.56055	1.04367	1812.024	1898.318
-1.16657	0.16349	0.85722	718.5762	622.3251
-1.22846	0.03155	0.81403	12784.74	10074.28
-1.10078	0.68544	0.90844	259.6302	234.0795
-1.00599	0.93905	0.99404	2223.814	2243.197
-1.01665	0.76498	0.98363	1051.051	1032.605
-1.0892	0.84108	0.9181	134.5636	122.9227
1.01917	0.8654	1.01917	1653.922	1676.638
-1.00313	0.96278	0.99688	1047.484	1040.396
1.22422	0.06493	1.22422	463.3286	566.0551
1.07941	0.52508	1.07941	413.1189	447.3791
1.15817	0.19933	1.15817	406.6478	468.5931
1.05957	0.58106	1.05957	1929.845	2020.537
-1.03623	0.53241	0.96504	3807.051	3645.63
-1.21123	0.0175	0.82561	3154.232	2570.537
-1.0958	0.1154	0.91258	2366.684	2152.304
1.22442	0.15496	1.22442	278.78	341.3802
1.06227	0.81554	1.06227	242.3462	271.5953
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1.13994	0.92263	1.13994	24.88501	28.83812
-1.00022	0.99753	0.99978	1479.701	1483.77
-1.02965	0.92274	0.97121	122.3528	118.1326
-1.21148	0.12236	0.82543	585.8839	490.3617

1.02834	0.50165	1.02834	5417.214	5570.565
1.16596	0.08929	1.16596	2258.302	2678.897
1.00363	0.97201	1.00363	588.1628	593.8799
1.04365	0.60809	1.04365	756.8259	793.143
-1.29849	1.74E-06	0.77012	15671.42	11999.89
-1.41325	6.71E-17	0.70759	16498.09	11672.46
-1.03217	0.60323	0.96883	1438.903	1394.679
1.11741	0.13618	1.11741	855.5182	951.2243
1.03442	0.48058	1.03442	1619.973	1675.781
-1.00994	0.9387	0.99016	340.2636	338.3536
1.00727	0.9289	1.00727	33536.67	33210.93
-1.07736	0.49396	0.9282	1110.092	1038.676
-1.00967	0.91109	0.99042	2123.75	2071.236
-1.49804	4.74E-10	0.66754	10266.01	6773.679
1.14896	0.16528	1.14896	905.1768	1043.17
1.03883	0.77731	1.03883	985.785	1010.661
-1.18483	0.54825	0.844	223.1799	186.3721
1.05348	0.40381	1.05348	7383.999	7855.982
-1.07656	0.79304	0.92888	218.1912	206.6201
-1.01083	0.98688	0.98929	80.07967	78.84325
1.04789	0.77472	1.04789	413.1205	446.7999
-1.0734	0.53852	0.93162	699.8535	652.5866
-1.33207	0.03321	0.75071	1959.647	1451.927
1.0004	0.9983	1.0004	204.2421	205.8774
-1.09702	0.61808	0.91156	393.2203	352.0193
1.07133	0.21651	1.07133	9988.862	10769.12
1.13722	0.32786	1.13722	42195.61	46020.27
-1.04891	0.77858	0.95337	315.7809	301.7175
1.09579	0.19269	1.09579	942.947	1034.697
1.11868	0.45326	1.11868	368.4093	419.2546
1.07795	0.37985	1.07795	2516.819	2764.727
1.07659	0.33358	1.07659	659.2802	710.6238
-1.18798	0.32912	0.84177	601.5958	519.3181
1.00567	0.9885	1.00567	133.3118	135.959
-1.14077	0.02363	0.8766	5763.34	5081.249
1.16284	0.01236	1.16284	2418.572	2827.719
-1.05093	0.71806	0.95154	374.9331	356.8547
-1.12057	0.4847	0.8924	579.2658	524.1882
2.3312	1.07E-07	2.3312	368.3792	841.0916
1.02968	0.86228	1.02968	379.048	387.3731
1.03735	0.61421	1.03735	1238.393	1277.432
1.05051	0.63135	1.05051	681.9463	710.2315
-1.08939	0.17838	0.91794	2303.011	2122.18
1.09384	0.43822	1.09384	550.5129	597.9689
1.04742	0.55069	1.04742	4374.739	4637.498
1.52694	1.01E-23	1.52694	17657.01	26968.12
1.343	6.86E-06	1.343	906.0526	1216.579
-1.57323	0.07873	0.63563	466.3622	294.0901
1.01922	0.87477	1.01922	437.806	442.6099
1.05216	0.62942	1.05216	1974.413	2099.651
-1.14936	0.15712	0.87005	895.114	783.9741
1.0119	0.85701	1.0119	7351.266	7459.757

1.21727	0.00159	1.21727	2861.801	3467.123
-1.02014	0.7518	0.98026	1700.922	1669.066
1.14044	0.08422	1.14044	1391.166	1585.318
-1.0488	0.34821	0.95347	3955.328	3761.169
1.28946	0.05112	1.28946	441.194	569.4223
-1.12335	0.04225	0.8902	1270.116	1129.997
-1.02466	0.78413	0.97593	487.5042	476.178
1.01845	0.93416	1.01845	267.315	274.0989
-1.04654	0.51133	0.95553	6445.747	6225.652
-1.1539	0.34282	0.86663	472.8676	411.9222
1.31097	0.00002	1.31097	7476.866	9692.841
1.02333	0.95712	1.02333	127.0806	132.0261
1.05467	0.40061	1.05467	1573.019	1656.209
-1.14817	0.26177	0.87095	4932.899	4250.258
-1.03959	0.91146	0.96192	114.2484	108.8822
-1.01296	0.86034	0.9872	4712.627	4586.778
-1.19488	0.01685	0.8369	7463.912	6157.073
-1.03642	0.78035	0.96486	713.0128	698.7891
-2.33599	2.01E-16	0.42808	2079.737	882.7893
1.00831	0.86165	1.00831	2104.132	2121.272
-1.13866	0.27258	0.87822	781.3966	687.885
1.06611	0.40426	1.06611	656.1139	700.0426
-1.0277	0.70818	0.97305	938.6592	912.0377
1.08935	0.2763	1.08935	3179.218	3437.042
-1.16163	0.04935	0.86086	775.1018	667.813
1.0381	0.60899	1.0381	1567.227	1626.024
1.01837	0.93047	1.01837	267.8429	274.3456
1.02653	0.62089	1.02653	3090.12	3158.894
-1.05326	0.63514	0.94943	805.0743	772.2851
1.12224	0.63806	1.12224	186.7579	210.2007
-1.05876	0.2596	0.9445	3526.319	3321.458
-1.13372	0.21568	0.88205	603.1373	531.9938
1.01169	0.87047	1.01169	684.0682	692.7969
-1.04416	0.5251	0.9577	970.6251	932.4158
1.15782	0.03322	1.15782	4026.759	4635.507
-1.01999	0.71182	0.9804	2308.177	2262.769
1.28827	0.00369	1.28827	764.0054	977.8602
1.20313	0.01117	1.20313	6275.327	7617.625
1.19302	0.19196	1.19302	324.6968	384.2575
-1.12289	0.3135	0.89056	679.1639	612.1553
-1.12404	0.31485	0.88965	488.5666	435.2051
1.05877	0.61387	1.05877	513.5223	549.4736
-1.05095	0.37283	0.95152	1658.302	1576.874
-1.03492	0.91029	0.96626	162.1054	154.4477
-1.12002	0.1118	0.89284	922.4673	825.6732
1.01579	0.77665	1.01579	993.262	1008.728
-1.00392	0.9063	0.99609	3741.836	3746.564
1.12074	0.24794	1.12074	2420.38	2693.735
1.06695	0.42496	1.06695	1328.283	1417.886
1.08678	0.46213	1.08678	396.2465	429.3865
1.0161	0.81666	1.0161	916.6376	928.4325
-1.19895	0.08202	0.83406	1009.105	847.976

-1.05029	0.62702	0.95212	462.4123	441.118
1.05332	0.74931	1.05332	266.7438	278.1119
-1.00032	0.99825	0.99968	359.9709	359.7115
-1.03633	0.90477	0.96494	165.1385	159.9831
1.1236	0.2954	1.1236	963.9581	1080.825
-1.04433	0.62092	0.95755	693.7225	666.6171
-1.01163	0.93426	0.9885	441.3594	435.214
1.06013	0.4401	1.06013	847.3064	896.2009
1.07654	0.23614	1.07654	1845.106	1985.97
-1.10367	0.4293	0.90607	2485.349	2173.669
-1.07339	0.47183	0.93163	676.3524	634.9363
1.12779	0.03557	1.12779	2687.342	3049.357
-1.05367	0.44576	0.94906	2487.643	2347.269
-1.03439	0.53252	0.96675	2257.695	2171.581
1.03688	0.45302	1.03688	3575.623	3709.031
1.17899	0.00196	1.17899	9655.988	11328.59
1.01322	0.77921	1.01322	2341.95	2373.33
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1.14296	0.61788	1.14296	158.7794	180.9672
1.04721	0.3485	1.04721	4394.389	4608.542
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1.09215	0.15019	1.09215	975.4049	1067.15
-1.08854	0.01224	0.91866	4707.345	4335.233
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1.0392	0.60765	1.0392	3608.119	3692.539
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-1.63004	0.01824	0.61348	2564.315	1450.475
-1.04876	0.55651	0.95351	5637.902	5255.576
1.02073	0.7279	1.02073	2049.975	2092.281
1.23949	0.50029	1.23949	146.8806	182.8839
1.05374	0.49521	1.05374	802.3672	842.4028
1.11876	0.32022	1.11876	1666.064	1855.365
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-1.15802	0.02248	0.86354	2315.587	2004.698
1.07658	0.50635	1.07658	5945.113	6171.983
-1.08798	0.64196	0.91913	409.6356	382.8052
-1.03683	0.8547	0.96448	246.0919	233.5029
1.06805	0.16137	1.06805	2953.332	3156.794
-1.08752	0.32005	0.91952	1173.942	1089.81
-1.01636	0.91715	0.9839	378.2697	372.6437
-1.17095	0.1052	0.854	1013.315	869.1761
-1.3301	0.01129	0.75182	930.5702	704.8566
-1.05264	0.52116	0.94999	1268.161	1212.923
-1.04317	0.5546	0.95862	3740.614	3588.58
1.01429	0.77339	1.01429	7992.617	8078.863
-1.15403	0.0549	0.86653	7360.844	6275.337
1.09647	0.82953	1.09647	106.3752	116.0919
1.08968	0.15878	1.08968	4933.69	5406.462
-1.06967	0.55773	0.93487	684.2142	639.5379
-1.08776	0.678	0.91932	264.4691	248.8398
1.31907	0.00007	1.31907	1808.2	2399.198
-1.06483	0.90614	0.93912	100.2636	94.03508

-1.30729	0.06905	0.76494	1289.253	982.5637
1.07911	0.16459	1.07911	1808.939	1949.28
-1.0054	0.97207	0.99463	431.8272	430.4397
-1.83225	1.27E-06	0.54578	528.9633	290.942
1.13984	0.59444	1.13984	203.9314	240.7897
1.03794	0.62019	1.03794	589.6292	611.8602
-1.08357	0.47366	0.92287	1063.325	989.8645
1.11543	0.14341	1.11543	1345.678	1505
-1.20007	0.08633	0.83329	671.1332	563.6047
-1.27064	0.01183	0.78701	8213.342	6309.154
1.03368	0.90751	1.03368	179.7655	193.4528
-1.16857	0.02363	0.85575	1062.989	910.8617
-1.04319	0.94054	0.9586	82.87255	83.51329
-1.06177	0.58297	0.94183	508.2646	480.4826
-1.53406	3.16E-07	0.65187	2137.889	1380.542
-1.03111	0.59637	0.96983	4479.536	4314.169
1.02295	0.64472	1.02295	1490.459	1524.664
1.3528	0.25292	1.3528	201.5159	291.8423
1.07002	0.59646	1.07002	283.4361	302.3809
-1.01007	0.82247	0.99003	2245.754	2223.302
1.24981	0.02911	1.24981	553.2484	685.8589
-1.36	4.08E-07	0.73529	41789.25	30444.35
1.24445	0.00001	1.24445	5693.316	7077.226
1.05583	0.42128	1.05583	1579.984	1669.886
-1.07261	0.2059	0.93231	5830.489	5465.069
-1.09782	0.76549	0.91089	185.6895	169.3512
-1.07887	0.50602	0.92689	865.1776	804.5013
-1.13151	0.69874	0.88377	203.5425	177.2192
-1.04742	0.46746	0.95472	1724.026	1646.567
1.00962	0.88292	1.00962	958.4013	966.5631
-1.0063	0.97328	0.99374	242.945	241.4328
-1.07479	0.74373	0.93042	167.6156	156.787
1.04093	0.81284	1.04093	275.6234	289.1138
1.00003	0.9999	1.00003	290.4424	287.4425
1.02358	0.66795	1.02358	5210.699	5313.682
-1.06902	0.2545	0.93543	2075.638	1939.504
1.30019	0.00064	1.30019	1232.084	1606.07
-1.10976	0.64446	0.9011	287.1475	255.5881
-1.07114	0.24942	0.93359	1007.537	941.1586
1.49624	3.40E-07	1.49624	18372.38	27994.34
-1.41489	0.06187	0.70677	832.2473	602.9033
-1.12628	0.63666	0.88788	242.1765	215.9201
1.0163	0.86731	1.0163	617.5968	632.0552
1.0849	0.82645	1.0849	86.57709	93.84856
1.06848	0.4152	1.06848	1197.759	1286.893
-1.12532	0.38309	0.88864	511.1226	453.782
-1.00335	0.94642	0.99666	1905.198	1895.084
-1.0132	0.80763	0.98697	6978.011	6848.256
1.07387	0.45369	1.07387	816.2205	871.5591
1.19614	0.00003	1.19614	49697.54	59493.45
1.04827	0.49313	1.04827	1286.349	1349.544
1.35501	0.21847	1.35501	182.3506	243.7285

1.05402	0.49638	1.05402	670.0313	707.1233
1.02018	0.88912	1.02018	311.631	318.7211
1.30378	0.00109	1.30378	3207.44	4144.365
-2.04078	0.02653	0.49001	250.7368	123.516
-1.15693	0.07595	0.86435	4417.685	3777.668
-1.03246	0.68594	0.96856	1390.825	1347.115
-1.57448	7.49E-08	0.63513	1840.628	1164.957
1.03214	0.54058	1.03214	2193	2261.605
-1.17372	0.10127	0.85199	8700.622	7186.696
1.01678	0.86463	1.01678	879.585	903.009
1.02063	0.79802	1.02063	1415.185	1448.469
1.0389	0.82783	1.0389	216.6612	224.9592
-1.00647	0.94336	0.99357	476.0117	472.4044
-1.11651	0.44272	0.89565	6288.227	5598.15
1.27629	0.08303	1.27629	926.1258	1193.809
-1.09152	0.42367	0.91615	502.7166	463.6027
1.13676	0.1361	1.13676	3692.041	4120.662
-1.37122	0.00001	0.72928	4360.843	3216.656
-1.32792	2.33E-06	0.75305	9227.502	6869.582
-1.08486	0.37719	0.92178	776.6975	716.199
-1.1508	0.04107	0.86896	1135.199	988.3607
1.00853	0.85897	1.00853	1419.602	1431.734
-1.09889	0.7696	0.91001	183.6196	172.0156
1.14627	0.05335	1.14627	1190.536	1366.105
-1.02467	0.79061	0.97593	757.002	743.4033
-1.04591	0.64458	0.9561	1117.597	1072.195
-1.01006	0.97226	0.99004	196.8898	194.8706
-1.04136	0.82623	0.96028	1552.586	1466.159
1.22893	0.76214	1.22893	60.08111	70.24934
1.1541	0.08435	1.1541	937.6762	1074.086
1.21863	0.29604	1.21863	241.5993	299.3295
-1.04194	0.81315	0.95975	364.668	348.3171
-1.03813	0.60105	0.96327	1853.38	1783.565
-1.00427	0.95578	0.99574	673.0769	669.5161
1.02645	0.9254	1.02645	189.3428	195.338
1.0847	0.14785	1.0847	8382.291	9146.931
1.04808	0.35204	1.04808	3716.99	3899.78
1.41595	3.14E-09	1.41595	2009.073	2845.484
1.0412	0.46096	1.0412	3249.992	3368.304
1.064	0.64546	1.064	539.9068	567.5168
1.33826	0.00004	1.33826	805.6325	1077.145
1.03288	0.82887	1.03288	472.238	487.7972
-1.05414	0.87514	0.94864	170.0196	161.4625
-1.05036	0.3122	0.95206	1534.568	1460.995
-1.01155	0.87981	0.98859	830.9741	819.1895
1.26502	0.08325	1.26502	705.9143	879.8315
1.00533	0.94529	1.00533	787.2429	792.7339
-1.23413	0.00763	0.81029	1184.426	961.9606
-1.03815	0.56269	0.96326	1430.661	1380.14
1.00154	0.98906	1.00154	547.4083	551.9841
1.05691	0.58117	1.05691	453.0923	478.7731
1.02156	0.81468	1.02156	2014.499	2037.23

-1.04346	0.42737	0.95835	1933.745	1851.969
1.07408	0.3968	1.07408	3346.72	3599.414
1.0158	0.81973	1.0158	4632.637	4652.14
1.05361	0.46284	1.05361	1015.878	1067.252
-1.03852	0.59851	0.96291	3307.004	3178.653
-1.07428	0.17503	0.93086	13452.42	12409.36
-1.03812	0.42801	0.96328	1800.461	1734.38
1.14104	0.32195	1.14104	7249.788	7976.128
1.06191	0.36055	1.06191	876.8735	929.5255
-1.13101	0.23416	0.88417	471.5327	417.1883
1.03813	0.79328	1.03813	371.4539	380.3608
-1.04764	0.83503	0.95453	285.8203	266.808
1.03594	0.76996	1.03594	427.869	447.7003
-1.54689	0.00007	0.64646	875.9495	571.1657
-1.00134	0.9806	0.99866	1770.043	1774.072
1.06733	0.31049	1.06733	3544.904	3800.222
-1.14206	0.80653	0.87561	108.4304	92.73178
-1.20183	0.02275	0.83206	4147.641	3453.872
-1.12519	0.23206	0.88874	4092.723	3565.706
1.25028	0.00334	1.25028	1168.206	1462.959
1.01813	0.78061	1.01813	1395.394	1416.953
1.18985	0.06118	1.18985	520.0262	621.0707
-1.01035	0.87743	0.98975	1077.732	1068.412
-1.01693	0.84741	0.98335	1761.979	1715.184
1.12396	0.19725	1.12396	519.2039	581.9719
2.10184	4.60E-13	2.10184	4727.234	10170.24
1.13191	0.32447	1.13191	320.5949	363.0236
-1.0771	0.80581	0.92842	191.6539	179.2165
-1.18885	0.18681	0.84115	465.1771	395.7932
-1.05899	0.72535	0.9443	362.6018	342.513
1.00388	0.94226	1.00388	1506.938	1513.38
1.14628	0.45263	1.14628	254.3117	287.7372
1.18423	0.26786	1.18423	902.7666	1081.388
1.05854	0.54399	1.05854	597.0306	636.1818
-1.13814	0.42021	0.87862	374.2421	327.8189
-1.15986	0.08582	0.86218	1961.237	1685.517
-1.09181	0.24054	0.91591	1431.24	1323.078
1.14385	0.00309	1.14385	3758.846	4295.089
1.04323	0.59029	1.04323	1066.071	1111.676
-1.11445	0.59127	0.8973	278.7129	250.1982
1.02061	0.85124	1.02061	697.8964	709.6825
1.04362	0.61634	1.04362	884.2827	921.0795
-1.0169	0.83148	0.98339	1517.382	1485.731
1.11526	0.02841	1.11526	1339.392	1494.129
1.10244	0.04402	1.10244	3497.66	3862.566
-1.01342	0.96487	0.98676	166.5494	165.2354
1.00589	0.90962	1.00589	1315.239	1322.918
-1.18016	0.0674	0.84734	761.3906	647.0623
-1.1336	0.31859	0.88214	1438.719	1288.446
-1.02139	0.63997	0.97905	2104.802	2060.927
1.00798	0.88224	1.00798	3176.299	3200.971
-1.16291	0.33816	0.85991	564.1572	482.7991

-1.07873	0.95301	0.92701	32.65723	24.12238
-1.02042	0.65918	0.97999	9435.248	9247.432
1	1	1	22.24119	22.31512
-1.01842	0.79497	0.98191	590.7076	580.1279
-1.16283	0.16481	0.85997	1063.055	917.4265
-1.08975	0.42333	0.91764	732.183	679.0412
-1.01618	0.76859	0.98408	1302.882	1284.589
1.04912	0.35453	1.04912	2929.793	3064.75
1.09505	0.15249	1.09505	908.4169	996.043
-1.90877	8.37E-11	0.5239	5532.243	2848.87
1.04381	0.86421	1.04381	253.0347	272.1739
-1.1002	0.3658	0.90893	1400.509	1263.424
1.24955	0.00869	1.24955	636.7769	796.2545
1.07851	0.47114	1.07851	1276.141	1387.522
-1.06043	0.4877	0.94301	7361.359	6975.993
1.04115	0.48399	1.04115	20173.09	20933.29
1.06631	0.30549	1.06631	1214.061	1293.796
1.05989	0.80737	1.05989	217.2219	224.9195
-1.18118	0.01193	0.84661	1571.321	1327.913
1.2049	0.0062	1.2049	1168.408	1406.476
-1.17082	0.00809	0.8541	2837.007	2415.628
-1.07899	0.75245	0.92679	255.7163	233.8104
-1.09162	0.43346	0.91607	590.4327	540.6515
1.086	0.29428	1.086	764.1745	827.7988
1.00286	0.98111	1.00286	11679.2	12171.51
1.09834	0.30709	1.09834	4202.935	4708.642
-1.62404	4.46E-18	0.61575	4536.203	2782.688
1.18664	0.14498	1.18664	523.9329	614.6804
1.01726	0.91621	1.01726	294.8244	298.8631
-1.04905	0.36022	0.95325	3464.798	3306.912
1.04087	0.38463	1.04087	1780.285	1853.01
1.39312	0.00004	1.39312	17280.82	24491.88
-1.02325	0.73877	0.97728	1206.68	1180.567
1.07481	0.77332	1.07481	247.8058	273.3347
-1.05523	0.35263	0.94766	2440.819	2325.391
-1.04887	0.72575	0.95341	438.6491	421.8854
1.06718	0.32827	1.06718	986.2983	1050.928
1.32084	0.00382	1.32084	1058.912	1396.702
1.05545	0.61091	1.05545	430.4118	453.512
-1.83524	0.0004	0.54489	3026.612	1580.06
-1.02221	0.89377	0.97827	1237.21	1199.355
-1.05234	0.81496	0.95027	261.0646	246.4489
1.03304	0.70452	1.03304	1235.652	1275.592
1.03079	0.83403	1.03079	420.9206	442.2198
1.01425	0.87576	1.01425	1600.59	1633.879
-1.42368	0.04769	0.70241	466.5701	332.5133
-1.02294	0.88854	0.97757	312.3485	301.1016
-1.08211	0.77533	0.92412	185.6585	172.144
1.03073	0.78686	1.03073	639.5957	651.517
-1.02896	0.73026	0.97186	1073.989	1048.393
-1.03754	0.54946	0.96382	4078.996	3917.263
1.13397	0.05753	1.13397	9586.224	10798.67

1.01882	0.89367	1.01882	383.3959	395.8241
1.12796	0.6855	1.12796	180.5971	204.4536
-1.12233	0.83978	0.89101	65.09624	58.28587
-1.04467	0.53514	0.95724	760.7417	730.0494
1.03359	0.77099	1.03359	595.6404	609.3696
-1.02454	0.92887	0.97605	186.1321	182.014
1.0364	0.88729	1.0364	185.8332	197.4329
1.11315	0.01043	1.11315	7396.123	8237.533
1.02304	0.7691	1.02304	7013.726	7211.438
1.18376	0.21031	1.18376	874.2575	1044.175
1.07827	0.0705	1.07827	16698.37	17988.74
-1.06219	0.47461	0.94145	1247.87	1174.442
1.02273	0.84103	1.02273	535.0418	545.1553
-1.21849	0.05033	0.82069	1981.059	1641.572
-1.04373	0.51254	0.9581	1294.232	1241.062
1.03659	0.54032	1.03659	843.6365	874.4713
-1.10765	0.21223	0.90281	2943.212	2647.329
1.06151	0.26286	1.06151	5448.128	5781.697
-1.0542	0.65294	0.94858	446.9267	426.1574
-1.08636	0.41447	0.92051	1077.415	1001.341
1.13449	0.34558	1.13449	447.0993	499.8641
1.07362	0.57855	1.07362	544.752	575.5726
1.19318	0.0513	1.19318	946.1355	1124.808
-1.45194	5.90E-10	0.68873	28340.41	19753.2
1.00839	0.86616	1.00839	1994.613	2011.142
-1.00215	0.97709	0.99785	7039.205	6990.531
-1.03743	0.7245	0.96392	501.7122	481.2814
-1.08702	0.54627	0.91994	344.9546	320.1508
-1.01369	0.85277	0.98649	968.6567	956.4093
1.24281	0.06652	1.24281	570.9391	700.6165
-1.04133	0.41017	0.96031	3090.875	2961.476
-1.13751	0.10771	0.87912	5063.504	4350.324
-1.16135	0.11024	0.86107	991.9702	859.6122
1.12672	0.06409	1.12672	3716.74	4162.412
-1.03056	0.57893	0.97035	10084.74	9792.089
-1.06329	0.24452	0.94048	4555.656	4281.911
-1.04388	0.59731	0.95796	2310.947	2203.51
1.65634	0.00204	1.65634	249.7048	407.515
1.20062	0.11748	1.20062	4915.237	6083.814
-1.00409	0.98501	0.99593	278.1717	290.5385
-1.19527	0.60036	0.83663	189.6428	167.353
1.06961	0.64445	1.06961	469.2964	513.1718
-1.07704	0.9099	0.92847	84.94632	79.86108
-1.06675	0.34431	0.93742	8879.577	8421.893
-1.02702	0.91324	0.97369	213.3319	214.1394
1.14387	0.17279	1.14387	483.3898	554.8662
-1.01002	0.90231	0.99008	810.2253	805.5906
1.08159	0.71317	1.08159	209.6111	227.7551
1.07461	0.15851	1.07461	11464.07	12261.58
1.03059	0.68249	1.03059	965.2849	990.6047
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1.51839	6.85E-15	1.51839	2067.993	3148.762

-1.02374	0.78909	0.97681	682.1466	669.0259
1.02223	0.91823	1.02223	201.3792	205.8201
1.03517	0.74462	1.03517	770.5437	803.6752
1.13982	0.4235	1.13982	340.712	397.2509
-1.16503	0.29344	0.85835	397.9856	341.8086
-1.04055	0.43683	0.96103	7714.643	7435.652
-1.10531	0.74374	0.90472	199.7146	177.3458
-1.18252	0.00534	0.84565	1465.671	1239.863
-1.04678	0.75116	0.95531	348.2961	332.5391
-1.05242	0.44274	0.95019	2538.343	2407.048
1.3304	0.00436	1.3304	652.4356	862.3465
1.00255	0.97906	1.00255	2661.383	2672.267
-1.10199	0.62483	0.90745	314.0978	285.3154
-1.00756	0.9041	0.9925	2267.615	2247.798
1.09879	0.6302	1.09879	297.0537	312.9366
1.02001	0.67605	1.02001	206031	211147.1
1.0786	0.66235	1.0786	289.2765	312.074
1.01358	0.94249	1.01358	261.6855	266.5269
1.12144	0.14864	1.12144	3582.333	3951.008
1.00669	0.94908	1.00669	524.9885	527.7011
1.03734	0.65253	1.03734	1681.203	1748.54
1.10265	0.29602	1.10265	9352.675	10030.43
-1.12886	0.2396	0.88585	643.5404	570.8903
1.1181	0.15499	1.1181	1756.059	1965.206
1.01673	0.88018	1.01673	954.2806	976.3001
1.10952	0.61367	1.10952	249.3818	269.6744
-1.04766	0.68423	0.95451	922.1754	889.4503
-1.04555	0.65747	0.95644	574.7927	550.335
1.00235	0.99096	1.00235	255.8702	257.412
1.03	0.76766	1.03	693.5786	707.9154
-1.07381	0.46866	0.93126	594.0145	557.0996
1.06511	0.51356	1.06511	685.4408	724.395
1.06166	0.73629	1.06166	308.2464	320.0122
1.44572	3.44E-08	1.44572	1630.776	2365.759
-1.02265	0.75933	0.97785	644.806	631.9961
-1.14806	0.07809	0.87104	4310.654	3704.459
1.05823	0.24342	1.05823	5119.871	5399.613
1.10581	0.73251	1.10581	176.9033	193.7243
-1.17088	0.05848	0.85406	1102.224	948.9655
1.25427	0.00027	1.25427	2200.829	2776.214
-1.08315	0.21212	0.92323	1870.815	1724.482
-1.01826	0.94743	0.98207	213.8953	207.2159
-1.03757	0.80406	0.96379	324.9283	313.1085
-1.85415	2.90E-10	0.53933	5859.469	3080.128
-1.00285	0.99767	0.99716	53.53657	50.37414
-1.05826	0.44558	0.94495	3649.884	3411.823
1.16298	0.02772	1.16298	2274.709	2628.148
-1.0539	0.80035	0.94886	238.1173	225.6694
1.05248	0.73229	1.05248	430.2683	444.3549
-1.03665	0.90645	0.96465	199.4618	188.351
1.09051	0.44008	1.09051	554.4642	598.9338
1.26347	0.10642	1.26347	265.8292	333.1967

1.14342	0.61643	1.14342	184.6942	204.1508
-1.82984	2.50E-12	0.5465	4028.037	2171.083
1.10002	0.15269	1.10002	1842.535	2027.61
1.00673	0.95134	1.00673	626.7633	638.063
-1.00474	0.96666	0.99528	497.969	491.8245
1.00264	0.98198	1.00264	681.3085	689.3379
1.039	0.61693	1.039	1426.893	1482.78
1.19323	0.30327	1.19323	320.0403	373.4893
-1.06804	0.36378	0.93629	3951.669	3706.094
1.23848	0.58703	1.23848	100.7749	121.7777
-1.04246	0.82139	0.95927	392.6348	387.2347
1.13289	0.37733	1.13289	805.4286	924.7073
-1.89743	1.11E-09	0.52703	3603.875	1852.016
1.03309	0.78311	1.03309	609.4725	629.8959
1.01095	0.84351	1.01095	1125.956	1138.562
1.02231	0.73894	1.02231	2626.538	2680.618
1.02628	0.76405	1.02628	953.4763	973.0621
1.25619	0.00128	1.25619	606.4677	761.903
1.00903	0.91226	1.00903	7217.011	7141.053
-1.04094	0.51918	0.96067	1732.505	1667.761
-1.07928	0.44984	0.92654	865.6108	808.2672
1.18576	0.00061	1.18576	10802.69	12861.29
1.12845	0.87728	1.12845	55.77801	59.36866
1.00069	0.98813	1.00069	5011.572	5025.304
-1.02526	0.78265	0.97536	598.7318	585.5535
-1.29886	0.00018	0.7699	41535.32	32463.88
-1.05241	0.61471	0.9502	426.8818	407.3005
1.03199	0.74343	1.03199	1120.251	1147.156
1.88256	0.33566	1.88256	50.73805	98.86398
1.04271	0.5321	1.04271	1760.283	1835.876
-1.23341	0.09986	0.81076	1762.675	1427.32
-1.10981	0.52158	0.90105	460.4895	418.3726
-1.1134	0.33741	0.89815	2017.841	1837.552
-1.25956	0.11828	0.79393	724.8047	587.9797
-1.00907	0.95569	0.99102	285.9887	283.3055
-1.15257	0.3327	0.86763	266.1027	231.1962
1.07358	0.29136	1.07358	674.399	724.042
-1.07791	0.32439	0.92772	1181.136	1097.346
-1.05231	0.55796	0.95029	556.3278	527.8524
-1.15673	0.09973	0.8645	3520.543	3009.16
1.25572	0.82426	1.25572	38.92752	53.50738
1.08487	0.27666	1.08487	3560.126	3808.175
1.13922	0.12145	1.13922	739.7105	846.2155
-1.07203	0.66632	0.93281	398.6105	370.0285
-1.06297	0.61824	0.94076	1105.777	1044.829
1.01051	0.86169	1.01051	762.474	770.4188
1.17094	0.03582	1.17094	1179.272	1381.719
1.11832	0.12702	1.11832	619.3425	692.2494
1.01225	0.8927	1.01225	646.9128	656.473
-1.10588	0.21588	0.90426	2180.871	1996.636
-1.06369	0.72165	0.94012	371.2531	346.9286
-1.37711	0.4132	0.72616	194.3587	136.1973

-1.04593	0.60584	0.95609	1481.057	1416.001
-1.0955	0.2795	0.91283	125390.8	117266.5
-1.17098	0.14237	0.85398	682.8252	587.1318
-1.01657	0.81325	0.9837	4796.171	4676.902
1.46628	2.45E-07	1.46628	22425.72	32345.53
1.36429	0.00146	1.36429	529.9408	718.4039
-1.07818	0.61705	0.92749	415.2676	383.8722
1.13307	0.06791	1.13307	1136.649	1288.244
1.03371	0.76593	1.03371	408.7403	421.8494
-1.09992	0.73939	0.90916	160.1545	147.4675
-1.10918	0.13407	0.90157	979.4478	882.2459
1.1007	0.36341	1.1007	425.446	466.6136
-1.00852	0.91742	0.99156	554.4669	550.2054
1.11216	0.13408	1.11216	6300.586	6916.85
1.16406	0.02663	1.16406	7092.894	8321.082
1.34307	0.02046	1.34307	1073.051	1443.798
1.05314	0.37035	1.05314	2234.993	2345.606
1.00013	0.99821	1.00013	1130.333	1128.699
-1.42935	0.00052	0.69962	3837.479	2650.037
1.09021	0.19522	1.09021	3114.322	3410.23
1.01292	0.8904	1.01292	532.3592	542.0833
-1.07339	0.26823	0.93163	1151.536	1072.852
1.03639	0.79708	1.03639	432.4849	447.732
-1.09692	0.81987	0.91164	141.7521	130.3933
1.12095	0.14453	1.12095	1005.157	1124.299
1.02826	0.75565	1.02826	1910.676	1974.428
-1.01894	0.96956	0.98141	108.5034	117.4619
1.02387	0.78869	1.02387	3644.587	3751.99
1.32151	0.01803	1.32151	462.9221	616.749
-1.00694	0.87468	0.9931	3379.225	3357.011
1.14627	0.16176	1.14627	1482.613	1702.344
-1.01046	0.94803	0.98965	1120.584	1110.158
1.01623	0.72781	1.01623	2969.853	3016.482
-1.0726	0.67288	0.93232	295.6478	275.0154
-1.11111	0.75763	0.9	165.7371	147.8681
1.13955	0.02857	1.13955	1184.972	1350.47
-1.08846	0.24659	0.91873	946.0834	872.6538
-1.04684	0.41277	0.95526	1604.819	1532.136
-1.03387	0.74445	0.96724	754.5469	734.3975
-1.02094	0.81568	0.97949	765.4656	747.9885
-1.01251	0.86632	0.98765	983.1004	975.599
-1.11278	0.37184	0.89865	505.7246	454.5804
1.07294	0.3609	1.07294	949.1424	1021.313
-1.00321	0.9444	0.9968	1956.873	1950.625
1.05194	0.5964	1.05194	701.0324	732.5502
-1.00113	0.98423	0.99887	1775.816	1775.932
1.0266	0.54975	1.0266	4081.002	4187.248
1.42669	0.07628	1.42669	480.0461	660.0835
1.89608	1.70E-15	1.89608	2430.805	4669.978
-1.01383	0.94336	0.98636	210.7395	205.876
-1.21762	0.08884	0.82128	1043.896	863.398
-1.47799	0.02036	0.67659	787.1317	547.1613

-1.00619	0.92398	0.99385	1749.899	1736.896
-1.09397	0.69513	0.9141	275.6675	249.2649
-1.05712	0.7865	0.94597	264.5599	250.4364
-1.02119	0.83143	0.97925	8299.036	7940.618
-1.06503	0.88754	0.93894	139.629	125.6147
1.45468	0.00018	1.45468	872.2541	1264.764
1.01789	0.80856	1.01789	4658.001	4767.547
-1.21097	0.33038	0.82578	470.4748	387.0374
-1.27788	0.1616	0.78254	418.0249	336.0284
1.12593	0.08885	1.12593	1612.573	1820.289
1.03759	0.88208	1.03759	146.4781	151.719
-1.01178	0.96837	0.98836	119.0564	117.5118
1.8422	9.49E-12	1.8422	7555.146	14276.28
2.37294	1.02E-26	2.37294	46307.13	112395.4
-1.05318	0.34397	0.94951	2538.262	2410.821
1.28556	0.01309	1.28556	582.9813	744.1574
1.0164	0.81118	1.0164	2330.689	2365.011
1.08456	0.49379	1.08456	2732.268	2989.154
1.05691	0.62027	1.05691	1585.676	1666.673
1.00882	0.93526	1.00882	388.758	393.996
-1.07347	0.46698	0.93156	1961.409	1813.474
-1.36857	0.09005	0.73069	750.5436	561.4764
-1.54929	0.00187	0.64546	3977.4	2430.752
1.01422	0.94469	1.01422	258.7472	263.5626
1.01109	0.86543	1.01109	1407.276	1421.417
1.16955	0.4992	1.16955	258.4791	308.6937
1.43296	1.60E-08	1.43296	852.5045	1218.67
-1.07289	0.37699	0.93206	1587.914	1479.849
-1.11955	0.29942	0.89322	568.7365	503.749
1.01702	0.8386	1.01702	1807.267	1848.537
-1.37696	0.01054	0.72624	787.4551	579.7833
1.01039	0.91742	1.01039	4110.324	4076.3
1.05018	0.62687	1.05018	1632.554	1705.151
-1.00551	0.92718	0.99452	1338.19	1330.088
-1.00731	0.93042	0.99274	2745.18	2663.768
1.3927	6.49E-08	1.3927	943.5775	1314.112
1.01268	0.86524	1.01268	1615.343	1639.188
1.06708	0.37494	1.06708	5991.481	6441.036
-1.02838	0.92551	0.97241	172.7624	174.6938
1.04022	0.94129	1.04022	103.6975	112.0295
1.01279	0.87736	1.01279	3027.667	3061.447
-1.53038	3.04E-19	0.65343	7812.917	5094.125
-1.12323	0.23361	0.89029	2223.25	1947.559
-1.13016	0.89511	0.88483	59.31557	54.62809
1.12794	0.35607	1.12794	354.1482	401.4716
-1.07499	0.88898	0.93024	111.0294	101.5508
1.05745	0.87832	1.05745	118.3769	121.8798
-1.20284	0.03557	0.83137	8166.704	6619.419
1	1	1	25.81168	20.66213
-1.06063	0.36646	0.94284	2443.183	2317.768
-1.09916	0.58029	0.90979	340.7351	311.0113
-1.18285	0.62383	0.84541	175.8222	147.7824

-1.42888	5.66E-06	0.69985	5559.055	3895.591
1.02166	0.66168	1.02166	5063.778	5180.526
1.41154	8.07E-09	1.41154	59317.72	84711.81
-1.01805	0.6784	0.98227	5630.502	5533.308
1.04182	0.60572	1.04182	535.6486	559.0085
1.06307	0.27897	1.06307	1711.086	1820.002
-1.29311	0.16381	0.77333	475.45	383.1451
1.02666	0.85852	1.02666	363.4814	374.6621
-1.0229	0.94733	0.97761	175.6134	166.6901
-1.01444	0.97645	0.98576	98.81938	98.13194
1.12709	0.00644	1.12709	10716.86	12061.03
1.06116	0.74103	1.06116	321.6315	333.0995
1.35935	0.00092	1.35935	581.9669	787.9147
-1.05612	0.76795	0.94686	240.2552	225.7903
-1.05097	0.65525	0.9515	524.3033	494.1301
-1.10583	0.43127	0.9043	484.6698	436.639
1.03505	0.86117	1.03505	466.3835	482.7319
-1.09975	0.6491	0.90929	241.7065	223.4726
-1.10028	0.30784	0.90886	618.8833	562.1107
-1.08372	0.42063	0.92274	1167.759	1078.17
1.07796	0.37547	1.07796	1096.994	1183.42
-1.00896	0.89484	0.99112	1205.651	1192.134
-1.01203	0.82627	0.98811	4438.091	4373.986
1.04556	0.57526	1.04556	563.6173	588.0476
-1.01046	0.84678	0.98965	3580.357	3568.948
1.06774	0.35367	1.06774	904.4809	967.5848
-1.01936	0.84695	0.98101	6718.746	6428.459
1.00303	0.96816	1.00303	755.1061	760.5804
1.2588	0.64384	1.2588	85.77442	112.8255
1.19277	0.47868	1.19277	214.2513	245.6833
1.07866	0.7394	1.07866	180.5016	192.6498
-1.07878	0.54984	0.92697	543.1824	504.2442
1.1868	0.11413	1.1868	490.2661	586.41
1.5004	0.00221	1.5004	298.6538	447.4167
1.31885	0.65853	1.31885	74.83808	101.8968
1.00772	0.94401	1.00772	355.6376	357.4755
-1.04715	0.39617	0.95497	4748.822	4523.333
-1.19403	0.78592	0.8375	96.32784	76.95688
1.14174	0.57727	1.14174	201.3045	229.5347
1.23996	0.00451	1.23996	7261.416	9146.711
1.03769	0.39455	1.03769	2395.62	2485.707
-1.06504	0.30247	0.93894	5399.906	5031.761
-1.04256	0.5469	0.95918	4500.095	4279.269
-1.07283	0.17677	0.93211	8705.342	8066.315
1.03587	0.94681	1.03587	67.33391	68.6983
1.02764	0.7689	1.02764	543.8887	561.6938
1.00665	0.98964	1.00665	94.08094	98.61449
-1.02241	0.88763	0.97809	294.995	289.7775
1.36671	0.00396	1.36671	584.6342	790.6299
1.12193	0.0572	1.12193	6401.208	7112.744
-1.23282	0.05935	0.81115	1012.893	826.4434
1.0136	0.86853	1.0136	570.054	576.3248

1.11235	0.10411	1.11235	767.3683	851.6295
-1.06543	0.67997	0.93859	436.426	419.3384
1.07732	0.24142	1.07732	2665.197	2882.886
-1.02333	0.88289	0.9772	307.5206	301.3385
-1.0927	0.4254	0.91516	740.2011	684.4937
-1.12622	0.47982	0.88792	363.4276	329.3495
1.1211	0.76501	1.1211	113.5144	129.4282
1.01315	0.8479	1.01315	1134.561	1149.642
-1.10282	0.26836	0.90677	1025.293	935.8793
-1.1089	0.70996	0.9018	187.4897	169.6951
1.14992	0.3911	1.14992	470.7001	528.7199
1.01829	0.81151	1.01829	998.0496	1021.675
-1.14869	0.03881	0.87056	2042.041	1773.959
-1.09297	0.545	0.91494	1679.988	1514.729
1.01393	0.82783	1.01393	2150.69	2178.653
-1.08407	0.76386	0.92245	218.3716	212.2679
1.04807	0.67358	1.04807	983.0626	1036.343
-1.085	0.53469	0.92166	5919.452	5297.896
1.02942	0.52952	1.02942	12285.31	12625.37
-1.09389	0.65077	0.91417	270.644	246.8503
-1.04613	0.50779	0.9559	824.0095	789.4932
-1.04381	0.52984	0.95803	1878.98	1805.59
-1.15348	0.01576	0.86694	174133.7	152841.6
1.08437	0.68121	1.08437	260.745	276.1962
1.12262	0.13303	1.12262	1594.392	1778.456
1.02086	0.9249	1.02086	242.6813	249.0633
1.12726	0.11064	1.12726	7411.483	8510.8
1.05299	0.59359	1.05299	1279.409	1343.491
1.46967	7.14E-13	1.46967	3305.145	4846.856
1.06206	0.60565	1.06206	679.7352	730.9398
1.02785	0.74607	1.02785	644.2474	659.902
-1.05341	0.72909	0.9493	420.149	399.8568
1.15454	0.78001	1.15454	105.0381	116.845
-1.01466	0.81084	0.98555	2812.257	2758.585
1.04252	0.58548	1.04252	1661.392	1731.112
1.03693	0.90115	1.03693	117.0714	120.5535
1.03005	0.88739	1.03005	280.4455	286.1065
1.37983	0.00216	1.37983	6298.771	8908.398
1.06447	0.48514	1.06447	11214.21	12031.59
-1.05278	0.69821	0.94986	393.2822	375.3329
1.05125	0.73826	1.05125	352.3055	376.2717
-1.12464	0.5717	0.88917	324.8896	288.229
-1.00854	0.96568	0.99153	293.8397	293.4637
1.15218	0.07927	1.15218	1236.016	1423.782
-1.02563	0.63814	0.97501	7348.916	7193.685
-1.27197	0.03626	0.78618	1486.777	1196.813
1.77122	5.71E-42	1.77122	924.9041	1644.94
1.16571	0.00131	1.16571	5594.98	6534.551
-1.16452	0.05143	0.85872	2011.886	1723.064
1.02017	0.66796	1.02017	1960.147	1998.386
-1.01499	0.91331	0.98523	704.0083	680.9609
1.06467	0.52346	1.06467	621.8292	658.516

-1.40562	0.00006	0.71143	1712.83	1219.12
1.00216	0.98177	1.00216	638.5941	635.3528
1.26121	0.71446	1.26121	51.2291	65.30793
-1.12422	0.25633	0.88951	1666.521	1478.17
1.00636	0.95176	1.00636	479.35	485.1458
1.20582	0.06059	1.20582	432.894	524.1707
-1.09918	0.72374	0.90977	227.2438	202.3133
1.57068	1.90E-17	1.57068	3124.486	4912.309
1.18174	0.06172	1.18174	4648.405	5587.672
1.26374	0.06373	1.26374	352.7588	441.5748
-1.10502	0.4589	0.90496	461.6791	424.1718
1.01009	0.91392	1.01009	576.8574	585.9991
1.32782	0.00043	1.32782	843.5981	1122.625
1.0328	0.78098	1.0328	118018.4	127030.8
-1.09372	0.46142	0.91431	1530.065	1419.692
-1.12019	0.0114	0.89271	11049.92	9837.853
1.12015	0.80113	1.12015	76.36936	84.66238
-1.03531	0.60788	0.9659	1088.981	1049.063
1.05467	0.93492	1.05467	65.0937	68.51731
-1.05904	0.62545	0.94425	484.2894	457.2883
1.56038	1.14E-19	1.56038	4964.43	7724.824
-1.35344	0.00316	0.73886	1421.013	1045.663
-1.28851	0.1901	0.77609	516.0244	416.1082
1.58695	0.00006	1.58695	1916.933	3129.864
-1.17853	0.22553	0.84851	3986.365	3222.607
1.06175	0.69762	1.06175	372.3436	403.4709
-1.21192	0.48598	0.82514	225.3901	186.3756
1.12223	0.46819	1.12223	298.0097	335.286
1.031	0.75773	1.031	813.1582	834.8912
1.5344	1.47E-13	1.5344	4180.513	6456.499
-1.09173	0.06184	0.91598	2123.191	1944.643
1.05948	0.69977	1.05948	352.7203	367.9263
-1.03267	0.66351	0.96836	2092.6	2018.212
1.65966	8.85E-10	1.65966	1456.236	2430.899
-1.2486	0.07632	0.8009	747.3903	606.7771
-1.07505	0.59086	0.93019	1396.809	1283.227
-1.00064	0.99346	0.99936	658.7387	658.7811
2.06976	4.32E-32	2.06976	9185.299	18850.07
-1.01589	0.78978	0.98435	6113.821	6074.481
-1.14968	0.26575	0.86981	897.0833	769.803
-1.00828	0.92266	0.99179	993.0315	976.6527
1.16901	0.55621	1.16901	266.9787	326.9656
-1.01153	0.95349	0.9886	268.4865	265.8922
1.16364	0.16502	1.16364	2047.74	2439.772
-1.01224	0.89339	0.98791	624.6906	620.6197
-1.06855	0.67745	0.93585	426.4652	409.4062
-1.20529	0.0607	0.82968	2027.683	1676.967
1.03378	0.93047	1.03378	125.3561	126.9645
1.01954	0.68291	1.01954	2281.83	2326.819
1.01304	0.78663	1.01304	18279.72	18455.35
1.0197	0.85964	1.0197	396.6658	405.6727
-1.59804	1.60E-08	0.62577	27583.91	17471.55

-1.15203	0.05007	0.86804	4916.913	4327.253
-1.02554	0.69207	0.97509	1863.919	1812.72
1.01004	0.89415	1.01004	574.725	580.6086
-1.01813	0.91953	0.98219	256.4432	251.1183
1.14681	0.00324	1.14681	5383.459	6161.157
-1.10177	0.54064	0.90763	725.688	658.6584
-1.20434	0.16604	0.83033	579.0596	489.6119
-1.07953	0.63765	0.92633	387.7801	360.2841
1.08796	0.86754	1.08796	91.3361	94.50426
-1.06339	0.66543	0.94039	499.0604	471.4286
1.00232	0.97663	1.00232	6317.902	6267.989
-1.1805	0.7919	0.8471	78.48071	66.90219
1.24719	0.05386	1.24719	1465.764	1812.806
1.04847	0.5136	1.04847	2957.688	3104.069
1.34853	0.0006	1.34853	11953.92	16491.65
-1.07735	0.23851	0.92821	2749.299	2534.108
1.03146	0.60271	1.03146	3931.723	4059.376
-1.05508	0.76058	0.94779	325.2477	307.0517
1.00519	0.91635	1.00519	1871.056	1880.267
1.03633	0.64438	1.03633	1994.161	2073.82
1.00997	0.92723	1.00997	1997.18	2004.302
1.06147	0.3995	1.06147	1165.429	1234.749
-1.12059	0.11025	0.89239	5615.797	4976.354
-1.0921	0.65499	0.91567	390.8701	350.171
-1.20109	0.05671	0.83257	1503.854	1248.732
-1.03277	0.56532	0.96827	1024.186	992.0496
-1.13182	0.00597	0.88353	6201.086	5467.198
-1.03409	0.74906	0.96703	814.573	795.423
-1.00869	0.90152	0.99138	755.8102	747.8085
-1.0901	0.68228	0.91735	337.2706	302.1995
-1.02321	0.84582	0.97731	373.6077	365.4592
-1.03767	0.76629	0.9637	420.7806	405.6157
1.03901	0.62937	1.03901	1244.335	1294.687
-1.10126	0.47764	0.90805	974.5499	891.3932
1.04521	0.7385	1.04521	336.8059	350.6341
-1.01124	0.83729	0.98889	1128.287	1116.288
-1.02452	0.60457	0.97607	5254.71	5128.288
1.03035	0.66403	1.03035	768.8471	791.5579
-1.06642	0.56309	0.93772	391.6979	367.5541
-1.04703	0.47983	0.95508	1857.978	1779.004
1.06968	0.34131	1.06968	4283.567	4549.651
-1.0512	0.53329	0.9513	2058.795	1978.47
-1.34889	0.00201	0.74135	1449.432	1075.195
-1.15903	0.37654	0.86279	514.4597	444.6018
-1.12384	0.36737	0.88981	429.8846	382.2964
-1.19713	0.79431	0.83533	69.08215	57.87756
2.72564	0	2.72564	2435.021	6668.997
1.06878	0.55391	1.06878	409.1349	439.3045
-1.00737	0.86468	0.99268	7286.044	7231.286
-1.00109	0.99162	0.99891	3347.129	3446.186
-1.49762	0.01722	0.66773	527.3289	362.8311
-1.10271	0.71419	0.90685	230.6468	207.0851

-1.35984	2.48E-06	0.73538	2230.716	1631.942
-1.00328	0.96418	0.99673	1720.467	1718.78
1.24132	0.00614	1.24132	10330.99	12947.31
-1.37252	0.00394	0.72859	933.9663	686.2238
-1.0137	0.93838	0.98649	231.0204	227.5166
-1.22972	0.26394	0.81319	625.9508	499.1427
1.00987	0.8798	1.00987	1291.667	1304.501
-1.06912	0.1939	0.93535	1631.53	1526.463
-1.0133	0.86284	0.98687	1505.988	1492.666
1.02269	0.76325	1.02269	1500.538	1534.523
2.28709	1.99E-08	2.28709	1131.948	2698.023
1.05204	0.59253	1.05204	1887.3	1982.582
-1.06129	0.24656	0.94225	1218.908	1148.511
1.01262	0.84774	1.01262	1101.313	1112.498
-1.00202	0.98443	0.99798	658.5635	661.5289
-1.09028	0.44593	0.91719	18017.53	16525.59
1.25103	0.06879	1.25103	948.267	1168.276
-1.00795	0.91993	0.99211	611.7372	607.598
-1.02176	0.60887	0.9787	3448.421	3375.014
1.07397	0.17845	1.07397	7387.932	7912.458
-1.13092	0.12448	0.88424	635.1957	563.5317
-1.11212	0.31002	0.89918	725.7331	653.5667
-1.11469	0.65951	0.89711	253.1365	235.0572
-1.06892	0.79982	0.93552	225.975	211.6933
1.15761	0.01414	1.15761	1122.754	1300.397
-1.14974	0.125	0.86976	12467.39	10583.44
1.48263	0.534	1.48263	61.88527	87.51766
1.0718	0.43334	1.0718	981.614	1060.567
-1.13525	0.44551	0.88087	547.5393	498.7377
-1.28162	0.03118	0.78027	17768.05	13227.93
-1.07007	0.54084	0.93452	662.1845	625.457
-1.12962	0.60297	0.88526	295.8491	255.3255
1.0129	0.95322	1.0129	264.5127	265.6571
1.00185	0.97802	1.00185	1498.034	1510.949
1.0537	0.57042	1.0537	719.64	753.6519
1.00186	0.98039	1.00186	654.4888	655.7382
1.10404	0.53983	1.10404	435.0739	483.3043
-2.80108	0	0.35701	318264.6	113462.7
1.06607	0.73394	1.06607	250.5998	263.6108
1.05198	0.39439	1.05198	1369.887	1443.723
-1.06977	0.88164	0.93478	128.8945	127.3244
1.07259	0.35393	1.07259	1914.717	2048.536
1.10097	0.32029	1.10097	1216.746	1331.524
-1.00123	0.99113	0.99878	487.6724	483.7688
1.00649	0.93494	1.00649	1292.523	1298.178
1.06164	0.52253	1.06164	457.0176	485.3909
1.1815	0.37819	1.1815	6698.158	8237.359
1.11988	0.6539	1.11988	189.7423	209.675
1.06704	0.22682	1.06704	11555.25	12240.25
1.13851	0.06087	1.13851	3115.662	3577.382
-1.21886	0.00271	0.82044	2135.018	1730.115
-1.36192	0.22056	0.73426	233.355	170.5959

1.09244	0.2364	1.09244	2022.095	2208.554
1.02895	0.91462	1.02895	192.6302	196.9027
1.15705	0.31249	1.15705	931.4732	1054.37
-1.16253	0.25897	0.86019	2546.269	2120.063
-1.0179	0.78837	0.98242	894.5607	879.7163
1.02983	0.55987	1.02983	3044.137	3126.935
-1.2142	0.0153	0.82359	1672.041	1369.65
1.22296	0.00276	1.22296	961.5112	1177.848
1.02711	0.89029	1.02711	274.7044	281.2731
-1.03016	0.94914	0.97072	117.2066	115.5601
-1.05031	0.58577	0.9521	4402.916	4088.482
1.01907	0.86437	1.01907	337.1459	343.4891
1.00064	0.99199	1.00064	1233.701	1234.51
1.0063	0.94343	1.0063	956.9714	967.5916
1.21032	0.26516	1.21032	1153.385	1447.72
1.00697	0.9257	1.00697	1070.91	1077.534
1.01414	0.84182	1.01414	775.5857	788.8438
-1.02558	0.66764	0.97506	1404.008	1369.624
-1.02846	0.76232	0.97233	468.739	455.6446
1.52457	2.38E-09	1.52457	1062.933	1618.207
-2.90621	2.13E-39	0.34409	74917.24	25321.03
1.0226	0.86987	1.0226	296.389	304.8139
1.03975	0.65623	1.03975	532.0071	552.9937
1.04057	0.68869	1.04057	766.1111	804.1369
-1.00924	0.88067	0.99085	1963.436	1952.062
1.02581	0.59799	1.02581	5503.512	5659.778
1.14847	0.03695	1.14847	8221.737	9601.031
-1.00848	0.91498	0.99159	1884.486	1880.964
-1.02436	0.7669	0.97622	594.4408	581.7087
-1.09504	0.35184	0.91321	1114.388	1018.594
-1.03057	0.87454	0.97034	212.9388	206.5665
-1.02962	0.5625	0.97123	3029.163	2941.152
1.16606	0.14434	1.16606	6447.609	7681.975
1.03707	0.72132	1.03707	2299.021	2369.036
-1.06372	0.84238	0.94009	190.0083	181.5239
-1.36978	0.01909	0.73004	1072.269	792.4148
-1.2144	0.0413	0.82345	4860.226	3923.333
1.02089	0.73873	1.02089	952.5143	972.5297
-1.15865	0.17248	0.86308	619.0565	538.9343
1.19374	0.00008	1.19374	82666.02	98521.7
1.00374	0.94691	1.00374	1122.832	1126.789
-1.10888	0.23118	0.90181	774.1209	701.7898
-1.01561	0.81366	0.98463	2069.571	2051.216
-1.59436	4.59E-08	0.62721	2620.747	1662.897
-1.01311	0.90684	0.98706	761.7102	759.7495
1.23682	0.0889	1.23682	414.0077	515.1271
-1.04298	0.66169	0.95879	541.5018	522.2311
-1.30977	0.00012	0.76349	12576.99	9434.606
-1.04592	0.73182	0.9561	447.5381	428.6099
1.01984	0.90382	1.01984	356.6376	356.4993
1.00169	0.98704	1.00169	1067.46	1082.936
1.04999	0.56404	1.04999	6175.374	6378.58

1.01404	0.86957	1.01404	797.7986	804.5555
-1.0389	0.82119	0.96256	325.3911	312.4988
-1.00194	0.98278	0.99806	433.9219	433.3145
-1.12796	0.18347	0.88655	1925.747	1694.137
-1.11409	0.19142	0.89759	982.3574	877.887
-1.05738	0.38037	0.94573	1022.862	966.8793
-1.14142	0.56639	0.8761	270.6844	235.25
1.05155	0.78133	1.05155	259.5574	274.2303
1.41688	0.05748	1.41688	249.4074	361.3079
-1.26316	0.00201	0.79166	988.5867	784.0866
1.15279	0.04137	1.15279	2661.845	3024.646
1.49047	0.00761	1.49047	859.8809	1290.192
1.00932	0.92023	1.00932	374.4173	377.803
-1.11654	0.28692	0.89562	494.6325	442.612
-1.02525	0.65268	0.97537	3040.677	2965.37
1.01114	0.93275	1.01114	541.3885	557.0927
-1.06106	0.39606	0.94245	3807.193	3561.615
-1.32279	0.02226	0.75598	598.5405	458.3248
-1.00354	0.96765	0.99647	3245.791	3247.713
1.11091	0.28868	1.11091	3568.979	3871.339
-1.00484	0.95312	0.99519	4576.245	4459.574
-1.09368	0.23458	0.91434	1561.559	1435.156
-1.10015	0.04773	0.90897	1875.094	1704.279
1.04865	0.62703	1.04865	584.0764	608.236
-1.06174	0.71132	0.94185	218.7758	206.3737
-1.6148	2.75E-10	0.61927	148740	93229.27
-1.05904	0.71464	0.94425	449.2188	422.2856
1.10965	0.09497	1.10965	1241.553	1372.431
1.04595	0.49867	1.04595	1352.448	1414.36
-1.14143	0.14189	0.8761	4557.749	3914.624
-1.31969	0.00536	0.75775	1307.19	992.0295
-1.13215	0.43142	0.88327	276.4424	244.8737
1.09289	0.4979	1.09289	443.7776	479.6104
-1.23755	0.00198	0.80805	7105.037	5607.756
1.00244	0.99146	1.00244	275.76	270.4891
1.02827	0.69755	1.02827	1202.504	1230.488
-1.07413	0.43383	0.93099	713.7835	668.3904
1.0957	0.30412	1.0957	479.4463	523.7155
1.04096	0.67691	1.04096	578.7872	603.7249
1.02301	0.70063	1.02301	1136.821	1162.842
1.31197	1.03E-07	1.31197	8543.424	11237.24
1.16565	0.0768	1.16565	1322.334	1540.332
1.03136	0.92047	1.03136	166.5113	173.3184
1.10648	0.22265	1.10648	3312.026	3730.703
-1.10955	0.5131	0.90126	427.5685	393.346
-1.05666	0.9483	0.94637	62.60744	61.09755
-1.16961	0.41444	0.85498	360.9666	312.0437
1.06434	0.22662	1.06434	2836.273	3010.496
1.02367	0.88071	1.02367	685.048	718.2599
-1.97819	4.35E-12	0.50551	4763.454	2324.927
1.01867	0.80208	1.01867	748.6832	761.708
-1.03342	0.6408	0.96766	3703.845	3574.491

-1.29125	6.18E-06	0.77445	24596.72	19179.89
1.48886	4.30E-07	1.48886	1102.723	1640.563
1.07743	0.12759	1.07743	1638.998	1765.441
-1.01318	0.88346	0.98699	569.0409	559.5443
-1.17204	0.04292	0.85321	5779.279	4895.242
-1.06226	0.7078	0.94139	294.386	276.7952
-1.03253	0.64187	0.9685	1406.808	1360.231
-1.10584	0.4555	0.90429	365.0842	333.1216
1.13191	0.14157	1.13191	2562.346	2860.331
-1.03522	0.7923	0.96598	611.5942	589.2844
1.06001	0.77801	1.06001	220.0969	233.1372
-1.20308	0.06665	0.8312	631.3922	529.0068
1.07164	0.4782	1.07164	562.9672	607.6439
-1.00831	0.90309	0.99175	1044.795	1038.249
1.22141	0.7654	1.22141	81.33783	93.08189
-1.05646	0.51302	0.94656	2206.622	2071.907
-1.07707	0.30726	0.92844	970.2206	899.1032
-1.37138	0.50708	0.72919	129.7396	97.33971
-1.24031	0.22106	0.80625	408.1102	330.1899
1.01147	0.84978	1.01147	8158.323	8256.277
-1.08924	0.69822	0.91807	218.4434	201.3441
-4.34778	0	0.23	8331.15	1954.682
1.16196	0.0896	1.16196	8145.88	9638.185
1.08266	0.60589	1.08266	386.7969	410.3964
-1.0066	0.95075	0.99344	468.6213	467.9623
1.02948	0.84556	1.02948	352.6043	357.6531
1.17386	0.05943	1.17386	8828.634	10512.29
1.00726	0.9654	1.00726	214.0778	214.82
-1.03044	0.63553	0.97046	53129.89	52417.62
1.42072	0.57647	1.42072	69.49989	91.23491
-1.20328	0.02835	0.83106	2610.768	2151.789
-1.16094	0.06304	0.86137	5817.755	4924.766
-1.37005	0.63902	0.7299	69.29802	50.29206
-1.40268	0.00029	0.71292	3523.478	2544.588
1.03745	0.6305	1.03745	5849.201	6126.556
1.73086	0.0004	1.73086	486.2644	826.2194
-1.76373	0.0685	0.56698	306.1021	184.3743
-1.15505	0.08717	0.86576	882.2528	766.8528
1.01167	0.83993	1.01167	3192.96	3231.112
-2.02502	0.06792	0.49382	197.557	104.6044
1.22838	0.55491	1.22838	95.75395	117.0549
1.08715	0.90919	1.08715	68.90907	75.35284
1.00036	0.99496	1.00036	1206.698	1207.13
-1.16984	0.46907	0.85482	385.0679	318.7142
1.02912	0.5616	1.02912	6733.099	6923.323
-1.02245	0.68261	0.97805	1443.522	1412.433
-1.03822	0.64371	0.96318	1695.461	1625.14
1.05906	0.42689	1.05906	2348.563	2474.21
-1.16218	0.30186	0.86045	690.3201	595.0111
-1.03929	0.43993	0.96219	1789.448	1722.403
-1.04725	0.31135	0.95489	3818.886	3651.31
1.08011	0.29048	1.08011	5329.352	5777.867

1.08211	0.34227	1.08211	3028.846	3239.665
1.04664	0.93464	1.04664	94.06249	99.88645
-1.54115	0.00004	0.64886	1273.529	826.663
1.04613	0.57873	1.04613	635.5455	665.515
1.0237	0.83002	1.0237	616.2732	637.6517
-1.22749	0.26922	0.81467	607.1494	502.4847
1.30801	1.91E-06	1.30801	1577.455	2064.883
-1.26243	0.00983	0.79212	892.7362	710.4586
-1.2988	0.1199	0.76994	275.8519	214.207
-1.0667	0.24123	0.93747	1767.738	1658.425
-1.00011	0.99833	0.99989	4584.274	4577.771
1.07792	0.15851	1.07792	4291.009	4640.824
1.03092	0.70475	1.03092	920.9658	948.7212
-1.5649	0.00011	0.63902	1811.088	1141.707
1.07282	0.3376	1.07282	30169.5	33041.51
-1.10227	0.2376	0.90722	4264.75	3828.848
1.16543	0.37291	1.16543	259.2262	302.217
-1.0855	0.13808	0.92124	3210.998	2971.895
1	1	1	23.04504	21.20594
-1.01148	0.83237	0.98865	6527.415	6487.813
-1.96211	8.92E-39	0.50966	9549.434	4888.498
-1.27738	0.00074	0.78285	706.3539	552.0034
-1.0056	0.97114	0.99443	435.8178	430.7933
-1.02519	0.76798	0.97543	1081.802	1063.76
-1.34184	0.00032	0.74525	4028.087	2937.279
1.00772	0.91183	1.00772	3144.589	3194.434
1.08915	0.45395	1.08915	371.4061	402.7569
1.27494	0.09939	1.27494	292.6072	376.0687
1.00258	0.97878	1.00258	489.2037	490.8671
-1.00024	0.99964	0.99976	94.11024	94.38938
-1.05715	0.84556	0.94594	232.5714	231.3499
1.04758	0.34245	1.04758	3620.162	3790.009
1.24598	2.83E-06	1.24598	2058.81	2565.685
1.13749	0.22797	1.13749	4946.334	5747.23
-1.16956	0.04468	0.85502	71596.28	62980.6
-1.04781	0.5738	0.95437	9664.527	9010.601
1.11116	0.85273	1.11116	77.38571	85.8209
1.05674	0.32787	1.05674	2751.408	2917.06
1.57893	0.03188	1.57893	493.5447	761.4536
-1.08747	0.42831	0.91956	802.0059	743.364
1.15992	0.00413	1.15992	2144.831	2491.536
-1.07002	0.69449	0.93456	401.2047	371.5508
-1.01359	0.89617	0.98659	1039.379	1031.825
1.16379	0.47738	1.16379	247.6328	279.2946
-1.0932	0.23459	0.91475	6081.633	5467.295
1.57001	1.80E-13	1.57001	1670.926	2614.288
-1.08635	0.44707	0.92051	17813.83	16947.66
1.03347	0.58705	1.03347	2498.533	2589.137
1.54908	3.07E-09	1.54908	1657.845	2579.818
1.03319	0.79391	1.03319	496.1943	512.1337
-1.07556	0.7509	0.92975	265.0764	247.7417
1.06932	0.29307	1.06932	7779.366	8281.215

-1.10366	0.75967	0.90608	169.6228	154.646
-1.03829	0.93598	0.96312	118.3228	116.6454
-1.05994	0.27097	0.94345	3537.026	3328.489
1.41408	0.00019	1.41408	510.4874	718.8492
1.41551	0.05603	1.41551	232.9898	324.0342
1.10087	0.61452	1.10087	339.6618	371.0938
1.01948	0.69503	1.01948	3620.264	3696.107
1.08692	0.47622	1.08692	2682.73	2835.357
-1.00307	0.94612	0.99694	4240.446	4228.901
-1.01214	0.86515	0.98801	1396.639	1382.587
-1.00248	0.98889	0.99753	400.7843	395.3834
-1.2315	0.00459	0.81202	3903.978	3133.091
-1.06441	0.75523	0.93949	326.3958	303.0378
-1.01926	0.73248	0.9811	1228.902	1207.037
-1.08859	0.13279	0.91862	1180.025	1085.876
-1.03261	0.5072	0.96842	1875.149	1816.014
-1.05551	0.23643	0.94741	2743.833	2599.696
1.09586	0.71236	1.09586	238.0107	266.4681
-1.10078	0.11037	0.90845	1636.313	1484.579
1.01821	0.81472	1.01821	822.9646	841.0105
1.26917	0.0016	1.26917	1097.549	1391.643
1.01703	0.92366	1.01703	372.8709	382.3203
-1.01167	0.9719	0.98846	142.0269	139.2087
1.04235	0.83858	1.04235	279.171	282.223
1.01496	0.95457	1.01496	192.6581	195.3294
1.04286	0.83751	1.04286	248.0179	252.866
-1.23824	0.71587	0.8076	101.0819	85.9864
-1.0322	0.83172	0.96881	378.5073	366.5476
-1.04572	0.66899	0.95628	747.345	720.8159
-1.36138	0.00132	0.73455	1529.492	1116.267
1.18836	0.00174	1.18836	2922.457	3487.487
1.1598	0.06026	1.1598	3325.045	3849.755
-1.14834	0.01355	0.87082	8372.751	7241.643
-1.07279	0.93865	0.93215	59.04808	54.60786
-1.14544	0.08199	0.87303	3159.529	2794.835
-1.07523	0.30174	0.93004	29304.43	26821.63
1.04192	0.4096	1.04192	1475.916	1537.266
1.06287	0.5436	1.06287	1382.661	1484.096
1.0278	0.86617	1.0278	418.1392	431.3902
-1.00785	0.95762	0.99221	387.2327	385.8893
1.01863	0.92093	1.01863	339.5964	336.3391
-1.10479	0.74698	0.90515	197.7618	175.7272
-1.37931	1.33E-08	0.725	49834.07	36330.14
-1.05753	0.50457	0.9456	660.7872	626.4144
-1.08176	0.27621	0.92442	1239.417	1153.275
1.04053	0.8563	1.04053	228.8647	243.4052
1.07126	0.15834	1.07126	4975.208	5329.464
-1.09212	0.23481	0.91565	3663.611	3321.74
-1.07478	0.34629	0.93043	2009.73	1885.388
-1.05776	0.70834	0.94539	241.138	228.5057
1.23536	0.29216	1.23536	208.4038	253.8262
-1.0455	0.36536	0.95648	4257.7	4084.424

-1.0378	0.65489	0.96358	2128.729	2083.661
-1.09619	0.13858	0.91225	2515.038	2288.445
-1.20098	0.23066	0.83266	469.5643	396.23
-1.06098	0.74897	0.94252	237.9175	224.2349
-1.07342	0.48752	0.9316	760.7192	715.2221
-1.12197	0.04417	0.89129	31635.46	28434.6
-2.15992	7.92E-08	0.46298	3947.087	1732.48
1.02713	0.57083	1.02713	2590.102	2658.587
1.01687	0.84993	1.01687	1077.058	1084.392
-1.11175	0.2834	0.89486	1147.773	1032.616
-1.01334	0.8614	0.98683	686.917	677.0077
-1.16546	0.89207	0.85803	31.8965	27.21709
-1.07484	0.4018	0.93037	2804.399	2574.967
1.04264	0.59339	1.04264	39608.16	42149.14
-1.07698	0.11932	0.92852	7019.149	6507.044
1.24825	0.19247	1.24825	400.9662	491.8217
-1.08522	0.4331	0.92147	15535.94	13893.67
-1.00567	0.98867	0.99436	150.997	144.4016
-1.05381	0.28576	0.94893	5466.96	5195.406
-1.66085	0.05415	0.6021	331.5449	207.5795
-1.10509	0.55969	0.90491	442.5937	406.485
1.20343	0.29896	1.20343	270.2393	320.0787
-1.02922	0.81694	0.97161	428.7352	416.6525
1.00798	0.94882	1.00798	406.0076	410.057
1.05425	0.85722	1.05425	179.4826	191.2281
-1.10481	0.15705	0.90513	4821.802	4398.717
1.35018	0.0004	1.35018	7641.469	10052.52
-1.12452	0.5067	0.88927	426.958	374.3619
1.0919	0.56236	1.0919	611.0438	652.7112
1.00026	0.99799	1.00026	1449.696	1435.841
-1.23583	0.00179	0.80917	19750.61	15743.68
-1.02261	0.72156	0.97789	1409.611	1375.346
-1.06664	0.45884	0.93752	918.1925	866.9387
1.43326	0.00638	1.43326	354.9787	502.548
1.42176	0.00012	1.42176	3585.696	5176.593
-1.06388	0.49714	0.93995	1050.637	983.6869
1.11168	0.02741	1.11168	3121.08	3466.186
1.09282	0.12279	1.09282	2763.433	3030.807
1.01845	0.95373	1.01845	170.7567	163.8836
1.01302	0.91177	1.01302	561.3674	562.0037
1.0229	0.77668	1.0229	1572.089	1603.27
-1.28804	0.00206	0.77637	684.2506	533.1974
-1.07106	0.58954	0.93365	593.1074	562.7052
1.0126	0.90814	1.0126	493.294	503.0052
-1.07093	0.74324	0.93377	315.9969	291.8351
-1.07557	0.4019	0.92974	2513.19	2347.545
1.10359	0.40398	1.10359	414.851	456.8425
-1.01614	0.79659	0.98412	3158.217	3106.813
1.07538	0.47436	1.07538	779.7513	846.2302
-1.01331	0.88304	0.98686	1012.607	1001.663
-1.04754	0.54108	0.95462	2721.726	2597.446
-1.10225	0.42225	0.90724	756.7396	685.4944

1.02878	0.63817	1.02878	1419.661	1455.991
1.11241	0.16041	1.11241	2600.629	2871.26
1.12977	0.14958	1.12977	1253.081	1421.616
-1.09174	0.6122	0.91597	413.5958	380.2336
1.02034	0.87198	1.02034	871.2149	897.7925
1.17355	0.15566	1.17355	436.5538	516.7997
1.03621	0.58715	1.03621	731.4426	756.6878
-1.01204	0.84331	0.9881	1463.082	1446.201
1.09453	0.27702	1.09453	545.9299	596.3356
1.05117	0.6157	1.05117	588.5994	623.6509
-1.002	0.96622	0.998	1973.578	1968.121
-1.05346	0.25006	0.94925	3820.493	3623.329
1.01419	0.78896	1.01419	1119.335	1135.203
1.35785	9.27E-06	1.35785	614.6096	834.0862
1.20557	0.06202	1.20557	652.1564	780.8325
1.24838	0.00954	1.24838	959.1792	1195.139
-1.03875	0.54641	0.96269	1352.703	1307.431
-1.02652	0.6824	0.97417	3008.39	2962.926
-1.0279	0.83802	0.97286	374.7536	368.5331
1.28589	0.59725	1.28589	77.87494	97.1248
-1.00612	0.90999	0.99391	2712.869	2691.065
1.01018	0.83873	1.01018	2980.871	3009.962
1.069	0.81013	1.069	157.0683	166.4829
1.05419	0.95018	1.05419	60.72134	65.68762
-1.00395	0.956	0.99606	1248.919	1247.568
-1.00243	0.96803	0.99758	974.7744	973.0961
-1.288	0.65843	0.7764	109.7068	82.89822
-1.39894	0.08255	0.71482	479.173	347.7695
-1.02199	0.81085	0.97848	640.8848	629.1553
1.14439	0.25152	1.14439	386.7518	440.7
-1.06052	0.40464	0.94293	967.858	912.1459
1.17348	0.89577	1.17348	29.54808	35.64372
1.0709	0.63034	1.0709	341.0541	361.243
1.25791	0.06754	1.25791	279.3247	351.4945
1.04669	0.76157	1.04669	261.705	272.9298
1.02069	0.73472	1.02069	1954.129	1994.526
1.05316	0.60877	1.05316	1813.529	1895.568
1.06508	0.9422	1.06508	59.01832	59.77568
-1.21979	0.05404	0.81981	1067.233	882.6228
-1.17165	0.0893	0.8535	6442.793	5428.681
1.56386	1.73E-26	1.56386	7006.658	10957.5
-1.13237	0.15692	0.8831	1694.701	1494.911
1.08131	0.30529	1.08131	777.1173	836.1672
1.16391	0.11058	1.16391	2779.882	3286.952
1.44663	0.00908	1.44663	239.6364	346.7
-1.11074	0.08222	0.9003	6533.567	5898.964
1.0811	0.67175	1.0811	195.6659	212.9019
1.03863	0.56633	1.03863	1481.898	1541.435
1.05805	0.53338	1.05805	842.2759	893.572
1.08754	0.31968	1.08754	478.657	519.4616
-1.08233	0.50241	0.92394	837.9394	784.2754
1.10203	0.20905	1.10203	975.1266	1076.271

1.02943	0.6122	1.02943	2623.815	2699.566
1.04433	0.62198	1.04433	786.074	814.9439
-2.21531	3.12E-37	0.4514	3665.02	1654.681
-1.10908	0.58611	0.90165	441.3758	412.5587
-1.02734	0.6628	0.97339	1736.875	1689.732
1.09522	0.82459	1.09522	126.8936	138.8654
-1.00074	0.9916	0.99926	1804.116	1801.128
1.01525	0.80676	1.01525	2901.976	2940.697
-1.12536	0.49149	0.8886	488.9587	429.9138
1.01475	0.82691	1.01475	1045.338	1059.698
1.21588	0.00045	1.21588	20177.61	24340.32
1.11759	0.69634	1.11759	194.2806	206.4527
1.08107	0.12151	1.08107	116985	125827.8
-1.16839	0.01293	0.85588	974.5127	835.3295
1.29426	0.00001	1.29426	1909.814	2462.253
-1.0204	0.768	0.98	2162.425	2116.919
-1.18132	0.1102	0.84651	918.3866	781.6433
1.41181	0.00373	1.41181	397.5569	555.5559
1.01187	0.87316	1.01187	827.8721	837.5038
-1.11147	0.23825	0.89971	610.7045	548.9927
1.05142	0.41571	1.05142	6110.78	6374.042
1.06393	0.71439	1.06393	280.325	297.1951
-1.3016	3.58E-06	0.76828	1443.758	1109.221
-1.04526	0.79349	0.9567	238.5093	227.5037
1.18176	0.14651	1.18176	543.2258	648.7865
1.04548	0.41743	1.04548	13723	14459.39
-1.00874	0.9363	0.99134	451.2737	444.9816
1.0312	0.56082	1.0312	2737.195	2832.291
1.54301	0.00284	1.54301	10687.42	17263.6
1.03897	0.52235	1.03897	1066.749	1110.909
-1.01447	0.92866	0.98574	319.8329	315.3391
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-1.12367	0.79879	0.88994	124.6791	113.2477
-1.12261	0.24604	0.89078	4785.656	4187.161
-1.11266	0.43181	0.89875	469.5632	421.648
1.1113	0.07254	1.1113	1671.567	1858.689
-1.09139	0.48606	0.91626	536.373	498.31
1.04882	0.6576	1.04882	586.4621	609.9714
1.18161	0.0942	1.18161	4142.337	5007.016
-1.10501	0.2021	0.90497	721.8477	653.4002
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1.16393	0.01538	1.16393	2538.264	2973.226
-1.00389	0.96023	0.99613	5173.796	5129.451
1.04141	0.87547	1.04141	150.9623	159.1811
-1.03092	0.65777	0.97001	3537.472	3430.19
-1.06796	0.15163	0.93636	3196.691	2995.89
1.11346	0.04922	1.11346	1861.035	2070.476
1.02023	0.68984	1.02023	2441.779	2493.373
1.00687	0.88973	1.00687	2688.934	2711.974
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1.25843	0.36691	1.25843	194.1042	242.9529
-1.18218	0.45342	0.84589	318.176	283.7059
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1.36342	1.22E-06	1.36342	1369.477	1863.191
-1.04054	0.76766	0.96104	483.137	464.0801
1.16163	0.08812	1.16163	1998.162	2342.876
-1.2595	0.20572	0.79396	516.0539	413.7047
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1.01983	0.81847	1.01983	2759.694	2779.923
1.03012	0.95413	1.03012	97.35753	99.54773
1.03504	0.86892	1.03504	514.7212	553.7278
-1.04355	0.66432	0.95827	1630.401	1559.193
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1.0239	0.80088	1.0239	485.8909	495.8348
-1.808	0.00574	0.5531	594.0856	340.2735
-1.05997	0.35945	0.94342	1771.664	1669.606
1.17415	0.28252	1.17415	1629.619	1884.595
-1.09235	0.68059	0.91546	299.4486	277.6473
-1.03759	0.7965	0.96377	1126.28	1091.535
-1.00402	0.94706	0.996	1147.631	1142.439
-1.28207	0.02973	0.77999	851.3057	671.5529
1.04169	0.42499	1.04169	5367.412	5604.894
1.01117	0.82996	1.01117	1192.09	1205.353
1.01587	0.95209	1.01587	142.271	143.6978
-1.00573	0.93753	0.9943	2050.597	2045.458
-1.02768	0.72818	0.97306	877.2572	854.9183
1.05679	0.43339	1.05679	1432.615	1514.424
1.05903	0.43319	1.05903	1094.479	1156.301
1.26322	0.00008	1.26322	2517.229	3196.131
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-1.08344	0.50182	0.92299	461.4263	425.8333
1.30888	0.00014	1.30888	2210	2920.567
-1.01358	0.93097	0.9866	283.1309	276.9191
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1.14341	0.05925	1.14341	2504.042	2896.124
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1.01448	0.95137	1.01448	184.8189	190.6675
-1.02875	0.79625	0.97205	594.0685	583.5414
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-1.24311	0.02729	0.80444	1418.338	1142.766
-1.09032	0.78609	0.91716	116.9975	107.9814
-1.05977	0.31609	0.9436	1300.108	1224.125
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1.0214	0.90844	1.0214	236.8891	243.2457

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1.06841	0.46954	1.06841	598.5836	636.0548
-1.18331	0.14659	0.84509	457.3016	384.8345
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-1.00199	0.99	0.99802	451.1501	438.9587
1.38893	1.11E-07	1.38893	952.812	1323.742
-1.09796	0.24302	0.91078	2973.425	2705
1.16736	0.03817	1.16736	7163.493	8447.764
1.01302	0.83768	1.01302	2518.453	2572.21
1.02539	0.68552	1.02539	1090.866	1118.131
1.01682	0.68786	1.01682	6327.602	6435.867
1.03461	0.50984	1.03461	1260.572	1304.398
1.04527	0.49059	1.04527	1956.562	2054.4
1.06355	0.49557	1.06355	586.404	619.923
-1.92416	0.00007	0.51971	6630.63	3205.561
1.17494	0.18831	1.17494	493.0749	571.5917
-1.16955	0.12334	0.85503	1035.232	892.2849
-1.00107	0.99413	0.99893	402.7127	408.5234
-1.07665	0.88838	0.9288	108.6977	104.2199
1.04436	0.57695	1.04436	927.6941	971.1576
1.06131	0.66013	1.06131	382.2148	400.7654
-1.02363	0.62943	0.97691	3629.51	3544.913
1.32832	0.0168	1.32832	919.3852	1232.595
-1.04719	0.46824	0.95494	3609.379	3504.897
1.06746	0.42332	1.06746	923.3529	988.6491
1.08384	0.49986	1.08384	485.3026	532.1242
1.00289	0.96273	1.00289	1719.125	1725.812
1.00754	0.97004	1.00754	415.9009	429.2089
1.00225	0.96957	1.00225	1662.424	1666.976
1.01069	0.87171	1.01069	1512.285	1530.456
1.11019	0.17861	1.11019	1211.756	1343.531
1.11044	0.18251	1.11044	2567.197	2881.344
-1.05465	0.45721	0.94819	1965.221	1877.837
-1.23703	0.00226	0.80839	1723.021	1387.739
-1.23363	0.27398	0.81061	2740.945	2115.3
-1.06755	0.30162	0.93672	1032.266	965.7675
1.05838	0.56805	1.05838	4019.366	4315.44
1.07533	0.23111	1.07533	2112.915	2271.797
-1.22581	0.0016	0.81579	1017.64	830.95
-1.0394	0.41097	0.96209	1426.323	1371.944
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1.3534	7.20E-09	1.3534	3489.114	4701.808
1.7193	2.13E-15	1.7193	3632.074	6199.177
1.22123	0.00221	1.22123	2247.041	2739.494
-1.067	0.39752	0.93721	3409.692	3184.035
-1.04447	0.70684	0.95743	462.3259	446.6365
1.11157	0.44631	1.11157	324.6538	361.8896
1.23509	0.00024	1.23509	9314.633	11414.48
-1.03899	0.62767	0.96247	1977.86	1924.069
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1.67404	1.24E-09	1.67404	1807.509	3058.546
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-1.01979	0.78608	0.98059	2790.864	2732.136
-1.06015	0.82975	0.94326	166.6019	156.2601
-1.10645	0.66864	0.90379	285.2024	251.9578
1.01078	0.86398	1.01078	2884.19	2916.813
-1.55981	0.0286	0.6411	471.8455	314.2254
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-1.13529	0.23649	0.88083	465.4413	410.0591
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1.31421	5.58E-07	1.31421	4645.092	6083.888
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1.0127	0.87724	1.0127	684.6095	691.5621
1.02089	0.87875	1.02089	463.1799	471.6773
-1.01673	0.8983	0.98354	446.3478	433.4847
-1.44218	0.00074	0.6934	3765.912	2591.413
1.2132	0.01767	1.2132	811.843	981.7156
1.07457	0.54265	1.07457	1878.436	2008.791
-1.05961	0.65872	0.94374	699.8926	671.5508
-1.08367	0.66829	0.92279	349.1819	331.3056
-1.09332	0.22865	0.91464	1503.688	1374.088
-1.25462	0.00261	0.79705	2000.63	1600.716
-1.00814	0.97135	0.99193	259.712	255.5634
-1.04918	0.67337	0.95312	969.6197	934.2638
-1.01038	0.85562	0.98973	1106.81	1093.761
-1.02762	0.58079	0.97312	1734.797	1687.645
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-1.01912	0.84324	0.98124	2623.628	2537.217
1.01114	0.85881	1.01114	856.2554	864.6221
1.33701	0.38886	1.33701	115.6539	155.3379
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-1.03898	0.78849	0.96249	456.71	447.8857
1.11528	0.24269	1.11528	2203.137	2489.611
2.01587	5.95E-21	2.01587	2930.06	5868.607
1.30451	0.00024	1.30451	10585.74	13566.2
-1.07924	0.45784	0.92657	742.1516	693.8771
1.03337	0.74251	1.03337	420.2512	434.5994
-1.03665	0.77343	0.96465	529.896	518.5704
1.01159	0.9103	1.01159	678.0065	691.7519
-1.02068	0.82045	0.97974	797.6727	778.5158
-1.00403	0.96164	0.99599	644.0512	642.6434
-1.02552	0.68155	0.97511	864.6266	842.0243
1.33651	0.05374	1.33651	541.6417	708.0165
1.2811	1.12E-06	1.2811	1549.798	1984.886
-1.18004	0.0774	0.84743	976.1151	834.8922
-1.05753	0.86619	0.9456	157.4759	147.7471
-1.05616	0.39355	0.94682	2474.453	2363.002
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-1.34292	1.84E-06	0.74465	3185.639	2358.517
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-1.52965	0.0115	0.65374	882.8009	587.6434
1.20128	0.01433	1.20128	3106.019	3793.081
1.11942	0.28898	1.11942	553.3907	614.6043
1.02918	0.65685	1.02918	1178.07	1212.366
1.34128	0.02505	1.34128	1742.885	2379.864
-1.06643	0.47524	0.93771	743.4164	692.5922
-1.37797	0.11884	0.7257	541.9316	408.1619
1.02519	0.74512	1.02519	709.3322	726.0554
-1.07304	0.50637	0.93193	456.7664	425.7131
1.22196	0.51331	1.22196	154.9498	182.6647
-1.13247	0.80351	0.88303	118.7054	102.8058
-1.04188	0.8707	0.95981	225.3575	215.6403
1.11948	0.43703	1.11948	1211.537	1364.218
1.06684	0.28401	1.06684	24409.84	25893.23
-1.20294	0.52461	0.8313	210.5002	175.5918
-1.03989	0.56384	0.96164	2224.313	2133.842
-1.09248	0.05153	0.91535	3332.081	3048.641
1.13323	0.5279	1.13323	198.8509	222.8001
-1.07002	0.81802	0.93456	221.9292	217.9158
1.27682	0.12239	1.27682	358.1724	447.015
-1.14619	0.32534	0.87246	603.415	523.7997
-1.06712	0.51176	0.93711	509.9345	478.3763
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1.01228	0.83434	1.01228	1096.334	1109.449
1.01469	0.76997	1.01469	2857.499	2893.271
1.04777	0.67479	1.04777	836.6496	866.4707
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1.03121	0.65415	1.03121	1545.479	1594.223
1.05288	0.44065	1.05288	802.1502	844.689
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-1.05045	0.8377	0.95198	182.7875	175.8076
-1.00864	0.90778	0.99144	851.7493	847.5281
-1.05444	0.587	0.94837	1438.901	1360.168
-1.1262	0.53358	0.88794	373.201	325.9427
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1.05231	0.55398	1.05231	743.3317	785.0266
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-1.01302	0.81805	0.98715	1057.139	1043.226
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-1.03131	0.73057	0.96964	549.698	530.5183
-1.23819	0.00006	0.80763	2164.148	1745.649
-1.05624	0.49735	0.94676	1297.78	1235.29

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1.03818	0.50879	1.03818	4417.706	4558.529
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1.00548	0.927	1.00548	17251.86	17146.23
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-1.09861	0.48627	0.91024	581.6839	529.3635
-1.01489	0.91752	0.98533	367.8612	362.7228
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1.0344	0.86183	1.0344	236.754	244.6603
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-1.08261	0.69867	0.9237	385.048	354.1305
1.1882	0.19124	1.1882	603.3284	705.3113
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1.52442	0.08406	1.52442	340.1886	508.1398
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-1.14484	0.54486	0.87348	265.4277	230.3154
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1.04272	0.6669	1.04272	514.9459	540.1954
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1.06235	0.73921	1.06235	271.7437	286.2059
2.14206	6.11E-15	2.14206	6846.202	15224.01
1.0591	0.6314	1.0591	549.5194	574.3669
1.00058	0.99586	1.00058	600.0678	605.2923
1.01953	0.71358	1.01953	6068.543	6186.856
1.17086	0.14683	1.17086	1495.668	1772.171
-1.0529	0.21925	0.94976	9009.678	8558.43
1.16443	0.01702	1.16443	826.9036	965.0613

-1.02742	0.58906	0.97331	2319.012	2256.268
-1.34911	0.6801	0.74123	75.1851	60.66684
-1.04209	0.66936	0.95961	990.1104	954.5197
-2.45576	3.23E-08	0.40721	7528.119	2865.806
-1.14018	0.19784	0.87705	621.0637	549.0314
1.00389	0.95594	1.00389	687.8841	691.9468
-1.00866	0.95827	0.99141	322.3727	320.3177
1.03261	0.62998	1.03261	3041.19	3138.063
1.03134	0.64702	1.03134	1532.406	1582.042
-1.5054	0.00009	0.66428	2386.344	1571.535
-1.04632	0.72032	0.95573	405.84	386.9453
1.01841	0.92005	1.01841	202.4048	206.124
-1.37572	0.00078	0.72689	1411.686	1038.374
1.31022	0.00006	1.31022	734.9327	963.4089
1.04347	0.91898	1.04347	93.69704	97.7855
1.00353	0.94266	1.00353	7379.339	7425.392
1.03016	0.73347	1.03016	2896.765	3001.787
1.17143	0.74553	1.17143	94.56969	109.6348
-1.00482	0.93824	0.9952	1105.537	1096.774
1.02691	0.64553	1.02691	999.2422	1025.963
-1.11481	0.07464	0.89701	2417.117	2159.57
1.36214	0.00002	1.36214	862.6041	1181.352
-1.01867	0.839	0.98168	887.1246	876.5533
1.06996	0.52857	1.06996	480.6898	512.5353
-1.04421	0.66438	0.95766	589.7708	568.3936
1.00016	0.99878	1.00016	862.4741	866.8163
-1.02871	0.65336	0.97209	1302.353	1267.282
-1.11366	0.16266	0.89794	1782.796	1599.663
1.16815	0.13948	1.16815	2319.018	2747.547
1.1582	0.0007	1.1582	4135.722	4787.693
-1.08799	0.33706	0.91913	13481.09	12034.64
1.05382	0.79865	1.05382	217.5786	229.4846
-1.01151	0.9572	0.98862	248.2765	245.7561
-1.05111	0.85586	0.95138	178.8023	170.157
1.08376	0.78686	1.08376	160.4361	180.1482
1.11283	0.18635	1.11283	642.1686	712.0564
-1.0921	0.26066	0.91566	1938.621	1779.913
-1.03791	0.81718	0.96348	332.2789	320.4385
-1.22266	0.03863	0.81789	9758.104	7773.372
1.06535	0.25579	1.06535	1674.274	1782.467
-1.16267	0.01124	0.86009	5057.016	4326.044
1.21621	0.06434	1.21621	16035.22	20537.93
-1.03562	0.90432	0.96561	210.3386	208.7447
1.03203	0.74519	1.03203	4492.171	4621.002
1.00582	0.92269	1.00582	2086.852	2100.273
-1.01483	0.86123	0.98539	739.869	732.6641
1.05145	0.5504	1.05145	12507.46	13110.96
1.65473	6.46E-08	1.65473	494.3734	813.3771
1.00984	0.84186	1.00984	12889.58	13001.04
1.03076	0.63334	1.03076	7500.521	7759.102
-1.00657	0.95602	0.99348	665.6711	657.6614
-1.11018	0.66905	0.90076	256.6028	235.0795

-1.06325	0.29432	0.94051	4216.628	3936.745
1.28556	0.52042	1.28556	107.3522	135.8985
-1.20913	0.83528	0.82704	61.72391	51.46572
-1.09961	0.7207	0.90941	244.295	216.4128
-1.25114	0.0089	0.79927	5336.915	4171.862
1.0869	0.49164	1.0869	339.7549	369.3163
-1.01939	0.83013	0.98098	1374.558	1326.865
1.41979	1.30E-10	1.41979	1438.872	2038.649
-1.05085	0.3201	0.95161	1625.025	1545.45
-1.00768	0.94977	0.99237	441.2918	434.4155
-1.82151	0.42121	0.549	66.64339	36.61592
1.11154	0.43684	1.11154	396.5145	434.705
1.0023	0.97687	1.0023	1318.215	1322.833
-1.06174	0.19357	0.94185	55298.36	52268.03
1.00928	0.9163	1.00928	1249.773	1257.328
-1.02836	0.83983	0.97242	405.7836	398.0011
1.10888	0.62268	1.10888	176.8892	194.9438
-1.2129	0.09707	0.82447	1315.553	1094.553
-1.07424	0.4391	0.93089	845.5409	792.0516
-1.15899	0.00873	0.86282	5125.125	4382.388
1.29638	0.00003	1.29638	3277.467	4212.039
-1.02231	0.86923	0.97818	369.9709	364.6405
1.21564	0.01993	1.21564	6965.698	8629.471
-1.09282	0.82502	0.91506	138.5973	128.6187
1.00645	0.93771	1.00645	1499.343	1512.807
1.16708	0.58056	1.16708	162.409	195.1428
1.05997	0.57894	1.05997	455.5475	485.5301
1.04995	0.55031	1.04995	640.8894	672.259
-1.49801	0.00059	0.66755	5749.643	3702.596
-1.00355	0.96913	0.99647	1177.305	1175.387
-1.02495	0.93002	0.97566	183.6545	179.2247
-1.15068	0.19489	0.86905	2084.695	1816.501
-1.05802	0.8203	0.94516	224.1912	213.1957
-1.12667	0.43794	0.88757	533.1334	468.2416
1.0304	0.65014	1.0304	1035.475	1068.97
1.00396	0.97358	1.00396	571.5261	573.3469
-1.01305	0.92567	0.98711	477.3	477.3891
1.10773	0.1013	1.10773	1471.48	1627.166
1.06846	0.42084	1.06846	680.1771	723.6091
1.64599	0.56461	1.64599	31.06369	51.99592
-1.07545	0.39635	0.92984	3792.707	3467.081
1.05866	0.91431	1.05866	114.9955	128.0135
-1.01448	0.76512	0.98573	3306.488	3259.363
1.19257	0.05965	1.19257	478.0069	571.0223
1.01827	0.84135	1.01827	810.0088	827.0882
1.09864	0.21701	1.09864	4335.05	4756.311
1.10676	0.34234	1.10676	397.6404	441.1081
-1.00448	0.93287	0.99554	1837.072	1829.603
-1.00412	0.95693	0.9959	1038.725	1030.285
1.03698	0.62386	1.03698	696.101	723.0236
-1.0622	0.49909	0.94144	1725.698	1639.495
1.12057	0.40732	1.12057	429.0552	478.961

1.0237	0.79926	1.0237	547.4506	563.213
1.35602	0.01486	1.35602	667.7169	893.0259
1.04513	0.3185	1.04513	6262.538	6552.1
-1.01381	0.9559	0.98637	240.6464	241.0475
1.06699	0.65518	1.06699	306.8554	327.9349
-1.06504	0.34687	0.93894	3328.94	3122.045
1.02015	0.65302	1.02015	1989.891	2030.178
-1.02359	0.77147	0.97695	988.8894	969.8038
-1.0715	0.34312	0.93327	1339.61	1251.466
-1.29222	0.00118	0.77386	1595.988	1236.862
-1.06231	0.26113	0.94135	1972.782	1858.193
1.04761	0.547	1.04761	1418.323	1480.658
-1.05804	0.43774	0.94515	736.6062	696.0651
-1.02311	0.83191	0.97741	337.4995	330.2716
1.01784	0.92484	1.01784	218.0598	220.4726
-1.02425	0.92476	0.97632	259.8171	263.536
-1.04051	0.77118	0.96107	302.9059	289.4472
-1.0699	0.49963	0.93467	659.8427	615.5354
1.02539	0.94083	1.02539	163.581	170.0314
-1.00601	0.94494	0.99402	2534.285	2511.652
1.00736	0.93305	1.00736	2925.315	2953.04
-1.44731	3.35E-09	0.69094	2869.446	1968.418
-1.11817	0.18888	0.89432	831.4037	748.5137
1.27243	0.03891	1.27243	752.9467	949.3877
1.06306	0.45775	1.06306	998.9352	1058.962
-1.06463	0.82876	0.93929	152.4445	143.0943
-1.12727	0.16748	0.8871	1959.53	1733.323
1.05197	0.30072	1.05197	1952.823	2055.212
-1.05652	0.73068	0.9465	366.0621	353.4246
1.09082	0.11963	1.09082	1677.929	1830.613
1.11243	0.13394	1.11243	4562.548	5098.558
-1.09601	0.2067	0.9124	900.0765	824.3775
1.00274	0.97551	1.00274	781.1591	779.2221
1.03906	0.59656	1.03906	773.4159	800.9175
-1.02022	0.72031	0.98018	1518.21	1489.823
-1.64327	0.01825	0.60854	669.5414	421.1771
1.04617	0.68196	1.04617	1979.602	2106.775
1.01537	0.91798	1.01537	281.8409	287.6652
1.08145	0.64425	1.08145	230.221	248.5463
-1.32663	1.32E-07	0.75379	22527.73	17076.02
1.01994	0.77961	1.01994	612.5704	624.6178
1.55951	2.36E-07	1.55951	22781.98	35157.88
-1.33957	0.00207	0.74651	2619.635	1929.731
-1.2712	0.00002	0.78666	3041.725	2388.432
1.03474	0.50678	1.03474	1624.11	1680.779
1.00158	0.99777	1.00158	96.46152	94.57684
1.03076	0.73325	1.03076	2506.167	2556.248
1.06515	0.49401	1.06515	519.593	554.4852
1.01224	0.85879	1.01224	6202.033	6280.63
-1.26976	0.00752	0.78755	3363.996	2649.43
1.06194	0.7943	1.06194	227.345	242.0593
1.25558	0.1493	1.25558	344.18	434.0519

-1.07859	0.15959	0.92714	1782.727	1654.737
-1.05013	0.85476	0.95227	219.4043	209.9847
-1.13799	0.91109	0.87874	43.82983	38.82679
1.03118	0.72317	1.03118	3148.36	3246.444
-1.06597	0.42258	0.93811	808.938	757.6362
1.23045	0.08618	1.23045	44372.92	56248.36
-1.01086	0.85423	0.98926	3239.848	3226.909
1.33151	0.396	1.33151	129.4872	165.8254
-1.02998	0.65991	0.9709	1264.925	1228.103
1.01613	0.81547	1.01613	2536.901	2573.336
1.37517	0.00147	1.37517	1477.295	2039.702
1.33952	2.62E-08	1.33952	2184.669	2931.904
1.08063	0.33869	1.08063	596.4699	646.8257
1.03858	0.76473	1.03858	413.911	425.4254
-1.69316	0.00002	0.59061	7474.703	4213.313
-1.05159	0.51654	0.95094	2139.326	2035.217
-1.03082	0.71368	0.9701	817.4526	796.7401
1.15982	0.62667	1.15982	188.3787	222.033
1.0866	0.51286	1.0866	1161.94	1270.11
-1.00496	0.99053	0.99506	117.3996	115.9741
1.08429	0.33054	1.08429	3440.72	3763.853
1.21125	0.06265	1.21125	30021.19	35634.87
-1.01572	0.78193	0.98453	1438.183	1415.06
1.07395	0.42781	1.07395	501.0345	538.8298
1.40745	1.07E-08	1.40745	6149.921	8710.648
-1.23176	0.48345	0.81184	172.6097	139.7605
-1.41052	0.00007	0.70896	3240.766	2262.969
1.01163	0.846	1.01163	4719.559	4777.927
1.03858	0.38286	1.03858	6336.68	6586.782
1.04708	0.66389	1.04708	1175.404	1235.176
1.3082	0.05749	1.3082	294.9407	386.2911
1.05898	0.33985	1.05898	1252.707	1326.438
1.15617	0.00386	1.15617	4521.484	5197.778
1.01621	0.74619	1.01621	2139.893	2174.509
-1.12087	0.74937	0.89216	143.8215	124.6671
-1.02094	0.80395	0.97949	902.5133	886.3616
1.15722	0.3074	1.15722	2815.834	3153.043
-1.02015	0.77055	0.98024	1033.51	1013.375
1.25427	0.06502	1.25427	501.832	621.396
-1.03061	0.69814	0.97029	967.5514	938.4226
1.0655	0.30076	1.0655	7209.174	7733.53
-1.11337	0.21944	0.89817	993.1589	899.2123
-1.01908	0.76425	0.98128	2445.758	2400.487
1.11441	0.37695	1.11441	440.274	490.8232
1.22285	0.00111	1.22285	2072.592	2547.444
-1.79382	3.59E-20	0.55747	17892.45	9879.021
-1.02208	0.78987	0.9784	3995.095	3917.855
-1.03412	0.81309	0.96701	1533.512	1459.484
1.28705	0.00235	1.28705	1217.929	1569.246
1.07172	0.2465	1.07172	8509.848	9195.809
-1.04166	0.87212	0.96001	160.6467	153.973
-1.27385	0.06127	0.78502	4251.398	3254.508

1.05521	0.59273	1.05521	501.4756	527.8209
1.1519	0.03475	1.1519	729.512	838.563
1.03594	0.50958	1.03594	1412.754	1463.349
1.08712	0.11375	1.08712	16750.92	18247.5
-1.0364	0.66218	0.96488	661.5604	637.045
-1.22174	0.12815	0.8185	1280.418	1073.181
-1.05628	0.42394	0.94672	892.6707	844.5998
1.19982	0.25769	1.19982	764.0709	900.978
1.07918	0.23507	1.07918	17846.27	19538.71
-1.02933	0.76825	0.9715	788.2797	772.2499
1.15463	0.05444	1.15463	737.1303	853.3939
-1.13565	0.65986	0.88055	215.5688	193.5593
-1.02382	0.69634	0.97673	4500.017	4381.687
1.03843	0.76003	1.03843	523.5386	550.9397
-1.05355	0.70389	0.94918	298.8919	284.6274
-1.0451	0.59521	0.95684	927.645	891.8843
-1.00954	0.894	0.99055	863.4597	856.5335
1.11962	0.62947	1.11962	241.8345	273.6547
1.11155	0.80561	1.11155	100.9928	112.8528
-1.02982	0.70627	0.97104	1159.213	1132.912
-1.07024	0.16096	0.93437	27277.41	25559.24
-1.01204	0.8544	0.9881	1440.521	1425.239
1.10694	0.06458	1.10694	1377.97	1525.573
-1.32047	0.00456	0.75731	882.6422	673.0072
-1.06294	0.9101	0.94079	105.0056	96.42367
-1.04977	0.42454	0.95259	1517.645	1446.126
1.05056	0.56211	1.05056	480.5665	505.1437
1.30456	0.00062	1.30456	5708.452	7619.126
-1.04543	0.59807	0.95655	2148.366	2057.568
-1.01534	0.78784	0.9849	2696.097	2666.365
-1.09914	0.46025	0.9098	1104.745	1008.926
1.53325	5.42E-14	1.53325	3882.642	5961.749
1.13891	0.49428	1.13891	239.3113	272.9804
-1.16367	0.62458	0.85935	168.5409	153.3467
1.07066	0.46452	1.07066	782.5116	830.9137
-1.06078	0.57122	0.9427	808.4972	768.6213
-1.1596	0.16558	0.86237	1155.841	1005.862
-1.22468	0.77778	0.81654	83.71238	68.67146
1.05259	0.59158	1.05259	1207.523	1273.792
-1.03424	0.62803	0.9669	1142.717	1110.004
-1.05598	0.77386	0.94699	306.1696	291.1669
-1.05624	0.22886	0.94675	2361.987	2235.969
-1.14343	0.16308	0.87456	845.2947	741.4302
1.16526	0.00576	1.16526	7053.834	8161.069
-1.11611	0.04485	0.89597	68634.04	61962.66
-1.15018	0.15415	0.86943	4624.989	3950.479
1.01282	0.76048	1.01282	4894.28	4957.395
1.01116	0.92079	1.01116	677.4938	679.3024
1.03658	0.75542	1.03658	4343.311	4544.581
-1.08531	0.73472	0.9214	218.85	201.0615
1.20179	0.77937	1.20179	60.87204	73.32607
1.05481	0.54767	1.05481	1024.593	1075.3

-1.08358	0.23497	0.92287	8274.961	7595.297
1.32607	0.00067	1.32607	640.7757	847.5551
1.02545	0.7635	1.02545	767.4514	783.0151
-1.11268	0.22228	0.89873	5588.787	5034.143
1.01351	0.96712	1.01351	157.2341	158.5544
-1.08004	0.6177	0.92589	356.5702	329.7542
1.09312	0.03452	1.09312	6906.492	7551.961
-1.00061	0.99624	0.99939	547.2872	546.4291
-1.04417	0.95968	0.9577	61.62003	61.08912
1.00472	0.95164	1.00472	900.5068	908.4561
-1.14407	0.71724	0.87407	135.9922	119.4788
1.01996	0.72971	1.01996	2023.691	2060.594
-1.16134	0.21868	0.86107	809.8565	706.3923
1.50144	0.62801	1.50144	44.78126	66.97819
-1.09193	0.52522	0.91581	483.2642	441.5265
1.21476	0.00011	1.21476	71299.31	86838.75
-1.00531	0.95642	0.99472	667.7018	665.9562
1.07472	0.43465	1.07472	1947.469	2109.41
1.20835	0.00804	1.20835	3177.591	3834.62
-1.02785	0.66197	0.9729	1134.903	1105.354
1.01766	0.76158	1.01766	1441.616	1464.974
1.19107	0.73375	1.19107	101.1245	126.2415
1.00118	0.98607	1.00118	2721.494	2722.171
-1.38932	0.00556	0.71978	21051.27	14400.4
1.03533	0.75456	1.03533	2868.763	2990.024
1.2023	0.74689	1.2023	71.30281	84.51482
1.64752	7.80E-20	1.64752	1493.11	2452.633
1.23387	0.14888	1.23387	374.5046	453.8603
1.07468	0.38344	1.07468	528.9381	567.6234
-1.10271	0.20026	0.90686	918.6854	835.7737
-1.01205	0.89564	0.98809	3203.188	3149.553
-1.05041	0.57733	0.95201	4724.148	4421.729
-1.00948	0.91178	0.99061	625.8389	621.858
-1.0369	0.41158	0.96441	2529.381	2438.508
-1.09307	0.08685	0.91485	7668.334	6988.553
1.06365	0.32976	1.06365	3910.849	4174.05
-1.02311	0.60914	0.97742	2514.049	2456.694
1.02295	0.68462	1.02295	2424.659	2480.149
-1.03266	0.70519	0.96838	899.103	876.687
1.11512	0.15282	1.11512	7401.961	8103.279
1.03245	0.67739	1.03245	1822.238	1870.574
-1.02733	0.69533	0.9734	1306.242	1266.966
-1.07174	0.59201	0.93307	330.3158	309.2837
-1.14141	0.60962	0.87611	244.9627	211.6798
-1.05574	0.56991	0.9472	1461.538	1383.481
1.1193	0.59796	1.1193	191.7719	212.8756
-1.2327	0.15271	0.81122	409.8211	335.7504
1.30953	2.62E-06	1.30953	1906.771	2491.384
-1.02751	0.75585	0.97323	1240.002	1194.301
-1.00841	0.98052	0.99166	164.4044	165.9605
1.56752	0.70953	1.56752	29.43189	47.47225
-1.17453	0.00453	0.85141	10178.87	8745.6

1.04838	0.65291	1.04838	511.8756	533.1228
1.07702	0.33689	1.07702	2261.451	2449.257
-1.0136	0.83027	0.98658	1559.754	1539.852
1.27893	0.01457	1.27893	19854.7	26192.54
1.02889	0.55413	1.02889	2195.368	2257.205
1.11737	0.05657	1.11737	1512.07	1691.542
-1.04214	0.83937	0.95956	246.7116	237.009
-1.01915	0.89081	0.98121	461.5642	453.7488
-1.2253	0.00082	0.81613	1490.343	1216.331
-1.14527	0.07421	0.87316	5239.931	4502.524
1.03228	0.5849	1.03228	11761.53	12221.47
-1.10547	0.44511	0.9046	299.8366	271.9198
1.20508	0.00022	1.20508	2691.592	3238.853
-1.12835	0.55613	0.88625	314.6127	276.395
1.016	0.82917	1.016	811.5657	826.0676
1.07297	0.30574	1.07297	2525.054	2721.08
1.05271	0.62856	1.05271	554.7189	579.1134
-1.00187	0.98808	0.99814	818.1974	825.537
-1.1277	0.62509	0.88676	265.3188	228.5495
1.02864	0.77246	1.02864	485.8008	500.2965
1.20698	0.8361	1.20698	45.32692	54.76476
-1.03773	0.89263	0.96365	251.02	233.6776
-1.24699	0.00004	0.80193	4457.079	3556.948
1.02637	0.73443	1.02637	662.6728	680.806
-1.03071	0.64301	0.9702	1372.492	1326.281
-1.0887	0.41927	0.91852	700.4064	648.2477
-1.00265	0.9832	0.99736	512.1404	518.1151
1.11009	0.07349	1.11009	1656.579	1839.395
-1.02141	0.87598	0.97904	477.1674	468.3063
1.02959	0.52807	1.02959	3180.049	3275.442
1.00486	0.97715	1.00486	265.9106	264.0992
1.14205	0.01195	1.14205	3378.927	3862.565
-1.09221	0.51865	0.91558	487.9187	446.716
-1.00137	0.98897	0.99863	975.6986	971.7479
1.09824	0.65693	1.09824	214.3127	232.8118
1.01077	0.97008	1.01077	189.2657	184.9247
-1.02	0.77252	0.98039	1703.073	1669.719
-1.14757	0.33309	0.8714	1152.221	1006.479
-1.02471	0.76617	0.97589	483.8952	471.908
1.0326	0.62923	1.0326	1313.467	1354.249
-1.07417	0.73221	0.93095	313.022	295.7614
-1.07052	0.47914	0.93412	1646.516	1537.972
1.05229	0.57616	1.05229	2654.991	2792.447
1.04447	0.87845	1.04447	192.8598	204.245
-1.06238	0.27376	0.94128	2127.505	2001.085
-1.1825	0.00403	0.84566	1123.075	949.6625
1.11612	0.096	1.11612	808.357	903.0017
-1.01405	0.80629	0.98614	2997.606	2950.21
1.23565	0.78495	1.23565	54.90701	67.40233
-1.03378	0.61252	0.96733	1422.742	1379.494
-2.74483	7.41E-15	0.36432	4847.267	1720.746
1.04531	0.44085	1.04531	4618.205	4831.189

-1.00791	0.93345	0.99215	716.2391	714.7806
1.05491	0.68146	1.05491	301.4371	319.7625
1.07511	0.2936	1.07511	1157.553	1243.283
-1.03954	0.90472	0.96197	169.7155	162.5537
-1.0135	0.90429	0.98668	527.0589	521.3005
1.05824	0.58046	1.05824	878.0762	924.9353
1.00238	0.96586	1.00238	3095.557	3107.432
1.08996	0.87624	1.08996	94.27273	102.0581
1.01191	0.93363	1.01191	283.4016	288.207
-1.02967	0.7289	0.97118	1660.002	1610.307
1.03284	0.64261	1.03284	2229.093	2295.413
-1.01384	0.92111	0.98635	407.3279	402.8825
1.00292	0.98681	1.00292	241.9279	242.2334
-1.00871	0.97164	0.99137	204.6468	202.2271
1.09457	0.47577	1.09457	462.4417	513.3074
1.07243	0.54871	1.07243	692.1852	733.6483
1.07498	0.83485	1.07498	108.0555	115.9659
1.03693	0.9088	1.03693	217.9186	244.5867
-1.055	0.55377	0.94786	9556.053	8838.396
-1.06595	0.90615	0.93813	86.16988	80.96431
1.24211	0.00025	1.24211	4804.313	6001.144
1.0588	0.3756	1.0588	1699.436	1796.675
-1.01727	0.78922	0.98303	5506.172	5362.691
-1.03474	0.92136	0.96642	175.3602	162.7747
1.02641	0.88804	1.02641	369.774	386.83
1.06767	0.58721	1.06767	320.9244	341.9753
1.13941	0.36211	1.13941	446.8906	498.975
1.18676	0.0456	1.18676	3898.741	4676.995
1.01374	0.87244	1.01374	716.861	722.3746
-1.02171	0.63819	0.97875	3156.515	3088.696
1.14491	0.90391	1.14491	38.58459	40.90658
-1.01376	0.92843	0.98643	355.7125	350.9041
-1.01225	0.83917	0.98789	2330.995	2303.082
-1.03666	0.82332	0.96463	792.4029	763.9988
1.05586	0.50994	1.05586	1031.011	1092.9
1.50611	0.00007	1.50611	1087.072	1648.857
-1.38598	0.00011	0.72151	1035.94	752.1044
-1.55065	0.00006	0.64489	3811.228	2435
1.01256	0.9638	1.01256	207.3393	212.8658
-1.00631	0.92216	0.99373	3976.7	3990.847
-1.21592	0.00228	0.82242	1611.6	1325.106
-1.0697	0.28208	0.93484	1325.755	1238.732
1.03929	0.69315	1.03929	2079.239	2145.926
-1.41612	0.00913	0.70615	6473.425	4306.019
1.00334	0.94526	1.00334	3174.389	3180.234
-1.3564	0.00065	0.73725	24569.95	17682.2
1.07699	0.45647	1.07699	654.379	699.6749
-1.01503	0.91712	0.9852	399.4901	394.0586
1	1	1	26.82615	23.7545
-1.16157	0.14426	0.86091	924.3095	803.1441
1.01463	0.84964	1.01463	1231.445	1250.205
-1.03745	0.83227	0.9639	363.2202	352.5969

1.18591	0.41444	1.18591	260.7399	298.6675
-1.02233	0.95093	0.97815	139.0204	135.0869
-1.10447	0.67633	0.90541	206.132	186.4418
1.0214	0.96472	1.0214	121.6699	132.4809
1.09721	0.07285	1.09721	3782.071	4133.487
-1.43666	3.14E-15	0.69606	44755.57	31208.02
-1.02459	0.73865	0.976	3982.869	3824.445
1.03279	0.66638	1.03279	729.4966	754.7247
-1.00248	0.97643	0.99752	533.5139	532.68
1.12317	0.24324	1.12317	746.9984	833.4378
-1.04648	0.61307	0.95558	1390.724	1336.839
1.03204	0.49421	1.03204	2878.344	2970.401
1.24798	0.00006	1.24798	1052.331	1313.197
-1.13757	0.24476	0.87906	546.4016	484.0588
-1.16064	0.00038	0.86159	13006.77	11197.14
1.05524	0.61304	1.05524	2081.585	2260.048
-1.00109	0.97997	0.99891	4384.444	4383.047
-1.07189	0.6944	0.93293	319.5735	297.5138
1.0046	0.97255	1.0046	699.8219	715.4214
1.01465	0.94939	1.01465	250.4996	251.705
-1.08277	0.27917	0.92356	1654.618	1526.345
-1.13115	0.66439	0.88406	218.8073	190.9722
-1.08746	0.20806	0.91957	2587.968	2382.705
1.01295	0.84639	1.01295	2825.299	2865.844
-1.05633	0.20124	0.94667	6557.283	6202.385
-1.04115	0.51836	0.96048	2571.919	2462.141
1.01603	0.93149	1.01603	247.8167	251.451
1.04951	0.6605	1.04951	451.1266	470.0877
-1.19969	0.00586	0.83355	2569.901	2124.507
1.12124	0.15504	1.12124	7851.991	8625.853
-1.1131	0.04998	0.8984	3136.927	2829.438
-1.04174	0.9641	0.95993	46.10642	42.79385
-1.51241	0.00192	0.6612	1155.835	771.7904
-1.11016	0.71225	0.90077	212.3431	193.0778
1.05463	0.42296	1.05463	1356.84	1431.139
-1.08343	0.31664	0.923	892.6304	826.2279
1.06365	0.65974	1.06365	332.2509	349.8678
-1.02845	0.64032	0.97233	1294.356	1260.376
1.00427	0.93143	1.00427	3509.668	3527.896
-1.06814	0.42799	0.93621	2390.614	2255.765
-3.56847	3.29E-20	0.28023	2994.849	807.7911
1.02381	0.84214	1.02381	5918.603	6016.125
1.0346	0.56379	1.0346	1260.106	1304.945
1.26526	0.69076	1.26526	84.07761	102.5199
1.07823	0.55703	1.07823	701.3174	744.996
1.4924	7.93E-10	1.4924	1368.613	2043.94
-1.01227	0.84893	0.98787	2397.27	2378.797
-1.01591	0.78877	0.98434	1816.037	1783.559
1.07311	0.3707	1.07311	856.4184	917.0643
-1.03603	0.45864	0.96522	2300.129	2219.779
-1.04998	0.89259	0.9524	139.854	130.8435
-1.11276	0.31163	0.89867	494.001	446.3131

-1.09965	0.30309	0.90938	575.819	526.5161
1.30187	0.12439	1.30187	407.0396	515.1613
-1.00897	0.91185	0.99111	675.5752	668.0137
-1.0978	0.07284	0.91091	1495.731	1363.439
1.09556	0.20745	1.09556	713.464	782.919
1.09417	0.9479	1.09417	31.89978	36.28569
-1.0122	0.93714	0.98795	505.4727	512.0208
-1.01484	0.94575	0.98538	224.013	216.907
1.01871	0.74854	1.01871	2173.908	2210.658
-1.06579	0.4838	0.93827	649.4482	611.9686
1.17619	0.02293	1.17619	936.0216	1099.367
1.16083	0.20794	1.16083	1595.5	1847.76
1.11253	0.06386	1.11253	4848.814	5413.239
1.00202	0.96466	1.00202	2800.802	2806.75
-1.14609	0.57906	0.87253	230.1324	202.1003
1.03345	0.61286	1.03345	2209.255	2296.105
1.13863	0.16132	1.13863	4462.559	5187.995
-1.00714	0.97665	0.99292	244.106	239.2522
1.18652	0.08374	1.18652	707.8798	845.3191
1.04423	0.92517	1.04423	114.0937	119.6801
1.42078	0.19362	1.42078	161.8708	239.2567
1.20206	0.30321	1.20206	202.4752	241.551
-1.24737	0.08503	0.80169	1613.511	1294.466
-1.04382	0.74189	0.95802	1541.908	1477.182
-1.10921	0.62179	0.90155	313.0852	278.8069
1.05546	0.35467	1.05546	901.6226	951.9959
-1.00439	0.93977	0.99563	1056.638	1052.341
-1.01055	0.84174	0.98956	1697.249	1678.967
1.14549	0.93612	1.14549	24.85194	25.19333
-1.21469	0.03617	0.82325	1165.136	960.925
-1.02808	0.64129	0.97269	1847.479	1794.451
-1.00585	0.88692	0.99418	7398.484	7355.23
1.06945	0.65286	1.06945	306.6973	325.0555
-1.02009	0.6736	0.9803	2752.461	2697.875
-1.12787	0.10007	0.88663	1435.753	1272.754
-1.13529	0.19333	0.88083	861.7919	765.2098
1.02281	0.81552	1.02281	536.9149	545.9778
1.06044	0.53555	1.06044	702.7886	740.9182
1.01358	0.89044	1.01358	892.3066	908.8701
1.51052	0.00004	1.51052	624.8506	938.4203
1.068	0.13477	1.068	3391.732	3622.723
-1.09352	0.758	0.91448	202.808	188.1836
-1.00576	0.91562	0.99427	1285.916	1278.858
-1.42583	0.00087	0.70135	2078.371	1478.27
1.04187	0.36852	1.04187	7826.478	8169.181
-1.06323	0.88539	0.94053	132.1705	124.3306
-1.11569	0.66272	0.89631	206.6091	184.9481
-1.07678	0.78686	0.9287	218.7322	204.8654
-1.06216	0.88147	0.94147	146.3631	151.136
1.04507	0.56672	1.04507	1112.298	1162.966
-1.16692	0.33716	0.85696	331.3745	283.8528
-1.21537	0.39384	0.8228	255.2375	208.8429

-1.05386	0.69123	0.94889	682.6414	658.8702
1.00606	0.92113	1.00606	4838.241	4902.658
1.01374	0.82328	1.01374	4390.269	4475.944
1.05653	0.52604	1.05653	646.3409	685.9751
1.01603	0.75423	1.01603	1329.097	1350.51
-1.0655	0.87996	0.93853	135.0393	123.6818
-1.04484	0.87365	0.95709	211.1607	200.0082
-1.04486	0.34209	0.95707	2736.387	2620.466
1.11689	0.60922	1.11689	244.4619	274.606
1.03584	0.5939	1.03584	1820.093	1885.781
1.39183	1.33E-08	1.39183	3505.414	4912.279
-1.26335	0.10714	0.79155	667.1177	539.0457
-1.01672	0.82799	0.98356	1685.094	1664.715
1.03477	0.74921	1.03477	505.599	523.655
1.14893	0.65718	1.14893	112.8409	130.2173
1.04261	0.57313	1.04261	16022.34	16974.5
1.01426	0.84807	1.01426	693.1389	702.3798
-1.01526	0.80664	0.98497	1743.335	1722.789
1.01538	0.89008	1.01538	1970.764	1972.668
-1.14324	0.09154	0.8747	10002.8	8876.688
1.09107	0.61676	1.09107	250.0014	272.381
-1.00114	0.98988	0.99886	821.743	822.2829
1.04258	0.79438	1.04258	253.4684	264.2047
1.04692	0.67343	1.04692	602.4932	628.0917
1.02909	0.64369	1.02909	2135.421	2197.834
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1.14502	0.21916	1.14502	358.4372	408.9631
1.3985	0.00132	1.3985	341.3249	476.8582
1.49088	0.26293	1.49088	136.1813	196.9102
-1.00956	0.93672	0.99053	366.1966	364.7198
1.16411	0.49596	1.16411	219.8528	254.5449
-1.10149	0.10122	0.90786	11740.54	10570.37
-1.06663	0.43897	0.93753	1204.508	1128.942
1.00338	0.94577	1.00338	2654.95	2662.624
1.00108	0.98828	1.00108	1353.416	1360.819
1.0191	0.8575	1.0191	578.0938	594.4529
1.0524	0.46461	1.0524	2988.704	3187.61
-1.00808	0.89891	0.99199	1246.006	1235.605
1.17497	0.0753	1.17497	580.7512	680.1845
1.12516	0.04976	1.12516	5632.953	6299.183
1.00921	0.90291	1.00921	1746.611	1759.951
-1.0541	0.5366	0.94868	671.0794	638.8698
-1.01438	0.78077	0.98583	1480.391	1459.431
-1.22837	0.032	0.81409	8849.994	7000.165
-1.04619	0.61942	0.95585	1208.698	1170.976
1.05735	0.25294	1.05735	2628.637	2775.318
-1.05771	0.38186	0.94544	1347.986	1275.074
1.26034	0.62562	1.26034	64.13821	80.52106
-1.15655	0.55086	0.86464	161.7653	139.7836
-1.06921	0.16287	0.93527	2453.774	2293.282
-1.03595	0.68143	0.96529	7672.138	7496.874
1.09123	0.16467	1.09123	2119.938	2316.229

-1.09866	0.25959	0.9102	1712.914	1528.664
1.24862	0.00002	1.24862	2115.977	2641.281
-1.15731	0.54628	0.86407	258.9753	225.0265
-1.12245	0.31131	0.89091	1064.484	963.7123
1.00326	0.95031	1.00326	1695.382	1701.547
1.20135	0.41236	1.20135	193.4455	230.2164
1.04659	0.39155	1.04659	7634.193	8002.134
1.02557	0.67473	1.02557	901.0899	924.3413
1.03509	0.53788	1.03509	1875.018	1938.929
1.02306	0.83188	1.02306	518.5721	525.9391
1.05404	0.72189	1.05404	251.5378	265.2436
-1.00809	0.9016	0.99197	155627	156049.3
1.06881	0.70907	1.06881	229.7592	245.6712
-1.0053	0.95214	0.99473	626.5662	625.8189
1.32228	0.47161	1.32228	109.2952	139.0157
-1.07381	0.74669	0.93126	278.0093	258.9727
-1.03944	0.65686	0.96205	894.4777	865.9739
1.09266	0.27373	1.09266	1336.72	1459.599
-1.13557	0.12294	0.88062	1046.078	923.2311
-1.02975	0.81906	0.97111	2775.744	2630.5
-1.02716	0.90592	0.97356	202.695	197.6555
-1.14899	0.68472	0.87033	175.1169	164.0121
1.1952	0.5953	1.1952	159.3972	173.6132
-1.04115	0.45941	0.96048	4620.882	4466.985
-1.15928	0.07476	0.8626	7216.51	6343.416
-1.00893	0.88911	0.99115	800.886	793.7108
-1.02337	0.71234	0.97717	2095.055	2061.055
1.05408	0.62595	1.05408	399.7959	419.3044
-1.01301	0.7935	0.98716	3265.976	3223.382
1.01045	0.8729	1.01045	918.1379	927.7048
-1.048	0.58236	0.9542	1898.544	1814.382
1.35283	0.60512	1.35283	66.27583	85.0121
-1.03749	0.76354	0.96386	553.0625	533.5143
1.01806	0.86685	1.01806	452.682	458.1373
-1.65002	0.00067	0.60605	1009.126	620.0748
1.01872	0.81636	1.01872	1891.521	1929.564
1.0789	0.50832	1.0789	616.9941	673.8583
1.03966	0.82413	1.03966	265.4985	275.6162
1.0593	0.80196	1.0593	190.9301	201.1542
-1.00294	0.95986	0.99707	2294.952	2285.791
1.19994	0.05254	1.19994	354.5073	425.3108
-1.04087	0.64796	0.96073	2147.621	2049.334
1.15947	0.12064	1.15947	24885.07	29658.81
-4.37642	4.07E-17	0.2285	7060.041	1492.218
1.15876	0.00792	1.15876	1191.213	1380.359
1.09503	0.27252	1.09503	5839.011	6309.006
1.02262	0.81257	1.02262	460.167	472.2972
1.026	0.87419	1.026	545.0104	574.723
1.03802	0.64164	1.03802	1068.153	1102.282
-1.05968	0.7808	0.94368	296.5204	277.0696
1.04317	0.51151	1.04317	900.1773	937.1166
-1.30668	0.0001	0.7653	1227.715	938.771

-1.11879	0.71764	0.89382	162.5503	142.5742
-1.01082	0.8531	0.9893	2530.913	2502.182
1.24027	0.04821	1.24027	555.1616	683.1657
1.11142	0.5038	1.11142	346.9692	378.8459
-1.49645	0.00005	0.66825	782.5572	521.313
-1.00118	0.98153	0.99883	6113.505	6110.159
-1.2093	0.02805	0.82693	8744.013	7068.299
1.08046	0.62777	1.08046	365.3494	386.829
1.10482	0.15983	1.10482	20167.82	22560.96
-1.64801	3.04E-08	0.60679	5988.044	3589.592
-1.05198	0.43162	0.95059	1470.85	1402.064
1.24437	0.12489	1.24437	203.2051	252.8585
-1.00911	0.87251	0.99098	2193.358	2168.656
1.29656	0.00319	1.29656	15397.3	19402.04
-1.0481	0.59494	0.95411	898.001	863.485
-1.07744	0.38844	0.92812	61496.47	55818.82
1.14543	0.48025	1.14543	180.8111	207.7885
-1.0247	0.74095	0.9759	6380.395	6247.794
1.04924	0.46387	1.04924	3716.02	3885.326
-1.01714	0.72541	0.98315	4022.379	3955.069
1.36174	0.00017	1.36174	512.1558	695.5671
1.02821	0.72849	1.02821	1660.024	1711.001
1.17104	0.09661	1.17104	952.6295	1118.596
-1.07391	0.4202	0.93117	832.4655	777.6554
-1.04961	0.33232	0.95273	2265.002	2156.204
1.10332	0.31239	1.10332	3109.497	3407.273
1.02919	0.7266	1.02919	607.5436	626.3529
-1.00472	0.97994	0.9953	288.4239	287.553
1.04433	0.96359	1.04433	43.08095	44.97813
1.3383	0.4277	1.3383	81.75204	108.7273
-1.02348	0.64973	0.97706	1692.167	1653.748
1.23306	0.00825	1.23306	2179.028	2689.501
1.10337	0.18032	1.10337	6006.642	6684.188
-1.42482	0.77899	0.70184	40.49294	27.6739
1.16936	0.23661	1.16936	354.074	409.8922
-1.37823	0.0026	0.72557	1600.006	1153.005
1.03883	0.64341	1.03883	2053.24	2125.578
1.24906	2.91E-07	1.24906	4417.408	5514.479
1.00758	0.93262	1.00758	542.6285	545.8236
1.05332	0.73596	1.05332	642.4506	675.8056
1.13785	0.17696	1.13785	5878.822	6818.733
1.09955	0.609	1.09955	322.5093	342.9259
-1.05581	0.57495	0.94714	1601.19	1490.17
1.01195	0.82492	1.01195	2608.685	2639.984
1.06681	0.49078	1.06681	3336.448	3542.063
1.03468	0.90632	1.03468	121.3262	125.6964
-1.02157	0.70967	0.97889	1796.546	1760.505
1.02907	0.63839	1.02907	1270.687	1307.714
1.12012	0.21557	1.12012	2747.399	3101.104
1.1116	0.66166	1.1116	226.1318	250.41
-1.23372	0.00006	0.81055	4141.72	3346.323
-1.0222	0.72108	0.97829	813.4273	794.83

-1.04371	0.65201	0.95812	953.495	921.5687
-1.01941	0.70022	0.98096	2275.1	2230.816
-1.10699	0.31274	0.90335	1832.887	1640.447
-1.16017	0.6128	0.86194	172.2811	148.3498
1.00895	0.95168	1.00895	412.7234	408.8756
1.30526	0.00619	1.30526	4767.337	6369.837
1.08318	0.11613	1.08318	1835.678	1989.417
1.35581	0.0517	1.35581	2950.272	3929.326
1.00727	0.92823	1.00727	3263.059	3273.372
1.01376	0.94319	1.01376	303.9611	299.4669
1.19588	0.07134	1.19588	3698.018	4425.766
1.00106	0.99449	1.00106	351.8679	348.8993
1.20827	0.35521	1.20827	274.2527	329.6126
1.12972	0.86945	1.12972	63.99126	73.7552
1.32482	0.1946	1.32482	199.1584	258.8612
1.11109	0.25194	1.11109	1529.811	1696.021
-1.10706	0.60347	0.90329	251.0083	226.4763
-1.74028	6.68E-06	0.57462	2507.146	1409.172
1.00077	0.99279	1.00077	1026.667	1036.904
-1.18107	0.00502	0.84669	1789.558	1513.238
1.03291	0.70974	1.03291	2607.257	2670.354
1.10242	0.86017	1.10242	74.23218	81.71553
-1.18392	0.13462	0.84465	563.1849	477.3135
1.08507	0.37153	1.08507	554.723	598.9945
-1.00548	0.8938	0.99455	10040.24	9982.448
-1.01169	0.78776	0.98845	5190.977	5128.881
1.02146	0.85515	1.02146	1223.68	1252.1
-1.0203	0.67325	0.9801	5529.455	5412.272
-1.10251	0.67223	0.90702	280.9771	251.4789
1.2496	0.02955	1.2496	561.7959	698.553
-1.04655	0.88234	0.95552	180.6943	182.4971
1.00309	0.9535	1.00309	5707.338	5714.905
1.17094	0.0173	1.17094	843.1373	987.7283
-1.01584	0.9367	0.98441	1542.204	1514.053
1.02935	0.71991	1.02935	1578.496	1624.698
-1.10038	0.48436	0.90878	515.2745	476.911
1.05137	0.50567	1.05137	1361.953	1434.039
1.02617	0.80024	1.02617	483.9656	496.0885
-1.02648	0.81682	0.9742	606.4042	591.0294
1.0665	0.39427	1.0665	693.3628	741.3012
-1.06778	0.5033	0.93652	1489.193	1399.731
1.04477	0.79432	1.04477	254.2423	264.7531
-1.02116	0.87668	0.97927	453.5566	443.4048
-1.01266	0.76982	0.9875	4882.025	4822.132
1.16414	0.19755	1.16414	871.5763	1021.986
-1.05646	0.58004	0.94655	1271.755	1209.038
-1.10001	0.30513	0.90908	1630.032	1482.199
-1.23355	0.04437	0.81067	1031.726	842.9342
1.07779	0.19163	1.07779	1951.662	2108.183
-1.00651	0.93057	0.99353	776.4863	770.2859
1.02244	0.63134	1.02244	2456.945	2512.059
1.03376	0.8431	1.03376	227.2515	234.2553

-1.19928	0.26092	0.83383	565.2143	468.1391
1.04367	0.87633	1.04367	180.4128	183.5554
1.00851	0.98986	1.00851	79.23436	81.48195
-1.02555	0.70233	0.97509	1393.921	1360.378
-1.31865	0.4082	0.75835	201.339	150.5052
1.00172	0.97838	1.00172	4636.755	4640.989
-1.1492	0.0813	0.87017	7200.737	6225.425
-1.03033	0.63893	0.97057	1111.273	1076.032
1.03835	0.84717	1.03835	265.6151	281.0691
1.151	0.11978	1.151	630.6968	723.1455
1.04063	0.54448	1.04063	1787.474	1859.425
-1.04278	0.90025	0.95897	165.2638	157.8886
-1.03099	0.68526	0.96994	910.7058	888.0509
1.0054	0.95355	1.0054	455.3658	457.0912
-1.07817	0.29953	0.9275	5131.976	4695.935
1.47687	0.03986	1.47687	227.2598	332.2538
1.02014	0.71848	1.02014	1380.992	1409.472
1.39916	0.00018	1.39916	1877.694	2667.006
1.04681	0.45091	1.04681	1572.386	1648.57
-1.1263	0.78492	0.88786	143.9733	135.7789
-1.15327	0.46626	0.8671	457.9361	384.3311
-1.40442	0.20988	0.71204	456.2471	351.2254
-1.03308	0.52319	0.96798	2031.249	1971.066
1.10022	0.24488	1.10022	1326.305	1454.05
1.02225	0.79623	1.02225	1108.594	1129.211
1.04362	0.50531	1.04362	1267.636	1322.939
-1.15233	0.81814	0.86781	94.09414	82.57091
1.31634	0.00029	1.31634	1144.337	1494.44
-1.04387	0.41325	0.95797	2512.997	2407.271
-1.08825	0.68561	0.9189	227.6939	208.488
1.24673	0.01439	1.24673	681.6694	854.5182
1.0072	0.94181	1.0072	785.5131	788.8632
1.05638	0.49995	1.05638	2638.784	2759.23
1.14885	0.12092	1.14885	1214.373	1401.466
-1.02979	0.73569	0.97107	4048.462	3857.501
-1.56826	0.06926	0.63765	307.5624	207.1859
-1.11663	0.42008	0.89555	509.0158	454.786
1.14955	0.04569	1.14955	1439.832	1652.875
1.14453	0.12171	1.14453	562.6215	646.9514
-1.18015	0.12155	0.84735	38200.94	33528.21
1.05636	0.68066	1.05636	522.1575	542.2033
-1.0438	0.84019	0.95804	331.9488	310.336
-1.0646	0.4795	0.93932	916.026	865.0914
-1.11896	0.35206	0.89369	1410.935	1249.477
-1.12414	0.754	0.88957	157.1629	138.8601
-1.03623	0.92647	0.96503	145.7615	141.8371
-1.05652	0.692	0.9465	359.5366	344.0031
-1.11221	0.24272	0.89911	1046.601	944.402
-1.09066	0.1779	0.91688	3608.058	3265.908
-1.00393	0.96213	0.99608	1186.813	1177.594
1.0069	0.94963	1.0069	854.7864	849.7999
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1.00609	0.9941	1.00609	61.9859	63.64577
1.16571	0.12786	1.16571	7800.378	9417.197
-1.80029	3.09E-09	0.55547	28765.78	15593.11
-1.48464	0.0007	0.67356	9265.102	6038.685
1.05047	0.84541	1.05047	156.6613	163.2567
-1.07387	0.44444	0.93121	5950.948	5424.341
-1.02658	0.66043	0.97411	1371.014	1340.226
1.06261	0.43224	1.06261	667.307	707.76
-1.01972	0.93052	0.98066	253.9518	247.6661
-1.10452	0.68066	0.90537	256.392	233.655
-1.04831	0.5605	0.95392	1804.935	1728.45
1.18033	0.30989	1.18033	240.1153	283.0822
1.07822	0.84822	1.07822	203.5376	194.7225
1.07174	0.37433	1.07174	595.7991	637.9044
-1.09208	0.3677	0.91569	3289.026	2930.602
1.02045	0.77173	1.02045	1927.794	1965.629
1.2406	0.63151	1.2406	93.09236	116.0796
-1.07128	0.94363	0.93346	57.09836	50.91591
1.36832	0.00279	1.36832	607.7233	839.6942
1.0337	0.56311	1.0337	1312.626	1356.613
1.04171	0.49471	1.04171	1976.051	2057.081
-1.03571	0.64291	0.96552	597.8317	578.5317
-1.0409	0.73185	0.96071	2640.123	2536.392
-1.00173	0.9721	0.99828	1440.792	1437.138
1.03598	0.75868	1.03598	377.2914	388.5145
1.00154	0.9815	1.00154	2457.151	2480.494
1.07048	0.4745	1.07048	812.0192	862.0137
1.02156	0.68664	1.02156	2618.756	2680.934
1.06804	0.38339	1.06804	1507.382	1609.533
-1.43081	0.17233	0.6989	233.7417	168.5205
-1.18825	0.09361	0.84157	545.0408	461.0572
1.07118	0.46669	1.07118	620.6516	666.0748
-1.00266	0.99467	0.99734	150.5104	152.2285
-1.21816	0.63075	0.82091	148.7358	123.9703
1.00586	0.96867	1.00586	454.896	457.0328
1.0976	0.73178	1.0976	146.282	158.1937
-1.06364	0.80693	0.94016	197.8823	186.5497
-1.09261	0.06849	0.91524	8354.307	7670.152
1.07277	0.61664	1.07277	582.7094	612.3517
-1.01449	0.75243	0.98571	1782.091	1756.569
-1.03261	0.78694	0.96842	522.0426	506.6161
1.00634	0.90666	1.00634	1683.296	1694.896
1.00411	0.93662	1.00411	1722.009	1732.513
1.05803	0.27059	1.05803	2516.056	2663.596
1.1127	0.59771	1.1127	314.6102	335.7211
1.00721	0.91884	1.00721	1674.849	1689.738
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1.11175	0.23787	1.11175	5384.154	6130.465
1.01326	0.84233	1.01326	9669.847	9881.431
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1.01708	0.86668	1.01708	671.051	676.8071
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-1.04036	0.36282	0.96121	7207.277	6935.603
1.05044	0.70575	1.05044	415.7996	431.3422
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1.01707	0.85435	1.01707	3784.199	3794.909
1.00863	0.91466	1.00863	3346.869	3378.113
1	1	1	23.06379	21.68094
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-1.06587	0.57525	0.9382	788.16	738.8831
-1.09077	0.5657	0.91678	366.59	336.604
-1.00914	0.94179	0.99094	331.5973	330.241
-1.05965	0.89762	0.94371	108.6719	103.709
1.0956	0.35173	1.0956	1538.111	1673.731
-1.19585	0.83846	0.83622	65.64709	56.66598
1.01274	0.82874	1.01274	3967.73	4049.584
1.07806	0.38959	1.07806	915.1014	984.6791
1.07314	0.19247	1.07314	3881.658	4155.062
1.14495	0.15303	1.14495	548.465	626.0176
-1.08816	0.41289	0.91898	1066.767	993.7407
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1.45506	0.6329	1.45506	51.01607	75.33261
1.07938	0.4575	1.07938	654.4586	699.9909
-1.0358	0.63225	0.96543	1816.203	1751.708
-1.20131	0.65318	0.83243	181.8319	135.8447
1.18462	0.00496	1.18462	2138.681	2538.636
1.10326	0.35631	1.10326	676.5227	752.9959
1.06096	0.69083	1.06096	327.856	343.4908
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1.1448	0.45617	1.1448	255.5526	287.8777
1.06334	0.49643	1.06334	529.4689	561.9825
-1.04346	0.44222	0.95835	1494.266	1432.047
1.12569	0.39087	1.12569	291.923	326.3326
-1.01234	0.86382	0.98781	2125.485	2107.343
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1.04682	0.66391	1.04682	487.4584	513.345
1.07272	0.45171	1.07272	918.8468	987.1963
-1.01436	0.7593	0.98584	1881.758	1855.148
-1.01977	0.81225	0.98061	1195.799	1173.953
-1.05112	0.79947	0.95137	197.8716	188.4235
1.03354	0.53473	1.03354	1911.073	1974.103
1.60225	0.00015	1.60225	1493.871	2451.073
-1.24678	0.00326	0.80207	3495.823	2788.212
-1.24286	0.14527	0.8046	440.7687	361.3135
1.07471	0.14714	1.07471	2143.372	2304.331
1.06442	0.18949	1.06442	12033.16	12838.71
1.12418	0.22099	1.12418	753.2987	841.3662

-1.08509	0.33956	0.92158	4530.218	4123.214
-1.04006	0.69386	0.96148	575.942	551.8806
1.0566	0.73314	1.0566	304.4764	323.4835
-1.01575	0.73129	0.9845	1995.745	1965.332
1.08409	0.14591	1.08409	9767.848	10617.15
-1.03338	0.5419	0.9677	1354.91	1310.558
1.0329	0.47361	1.0329	4239.53	4373.53
1.00045	0.99524	1.00045	2856.304	2896.485
1.00599	0.9514	1.00599	918.7484	915.9795
1.2258	0.38144	1.2258	166.1442	203.4991
-1.09669	0.2302	0.91184	841.8237	769.6364
-1.02969	0.66985	0.97117	3654.023	3494.673
1.01284	0.88819	1.01284	990.1748	1001.903
-1.06335	0.79845	0.94043	252.8564	240.2596
1.08243	0.24675	1.08243	2655.154	2890.413
-1.92284	0.00003	0.52006	2913.335	1439.109
-1.0077	0.97522	0.99236	222.8554	220.217
-1.01727	0.93927	0.98303	296.246	294.8391
-1.03975	0.63353	0.96177	1375.523	1330.52
-1.1675	0.29887	0.85653	491.5484	419.3716
-1.01658	0.79816	0.98369	1394.847	1373.036
1.10729	0.20871	1.10729	615.6981	680.2325
-1.1018	0.73346	0.90761	211.9474	193.6812
1.13986	0.1037	1.13986	841.2969	957.0581
-1.01691	0.81261	0.98337	3505.069	3460.291
1.16955	0.18533	1.16955	1141.612	1331.582
1.19591	0.00015	1.19591	15689.74	18797.93
1.08516	0.87048	1.08516	105.2694	116.9705
1.13665	0.85347	1.13665	51.71044	58.97986
1.0341	0.61422	1.0341	753.6993	778.6212
1.0428	0.55767	1.0428	2162.75	2260.961
-1.07366	0.08208	0.93139	7690.167	7163.299
1.3911	0.62099	1.3911	58.08936	77.92039
1.04294	0.9376	1.04294	103.4517	113.5182
-1.07327	0.28242	0.93173	823.7772	768.1718
-1.03247	0.66376	0.96855	1476.672	1429.715
-1.54643	0.01663	0.64665	375.6444	245.3924
-1.0498	0.53771	0.95256	2563.853	2447.337
1.02175	0.74775	1.02175	3568.486	3628.008
-1.18823	0.00065	0.84159	4737.335	3991.476
-1.07302	0.43965	0.93195	1036.86	971.3333
1.03536	0.82922	1.03536	287.805	297.7079
-1.09986	0.16563	0.9092	9179.759	8206.336
1.05904	0.64879	1.05904	553.2202	577.4121
1.08707	0.80392	1.08707	165.9578	183.9177
-1.0168	0.83417	0.98347	821.3595	811.6345
1.03429	0.73992	1.03429	387.9251	400.5187
1.12384	0.2744	1.12384	611.1538	680.206
-1.10374	0.64239	0.90601	302.3804	277.3527
1.26628	4.58E-07	1.26628	2684.193	3398.707
1.05328	0.54089	1.05328	789.2938	834.9491
1.0136	0.78094	1.0136	14603.29	14835.56

-1.19372	0.45284	0.83772	242.1697	209.1624
1.21755	0.07705	1.21755	747.9993	923.0905
-1.03596	0.56232	0.96529	2712.529	2617.949
-1.05848	0.85456	0.94475	186.9678	174.2265
1	1	1	24.80537	20.26364
-1.09063	0.57066	0.9169	1110.538	1027.604
1.15245	0.02893	1.15245	3016.765	3497.705
1.24596	0.17002	1.24596	384.7773	467.3117
-1.03299	0.97651	0.96806	42.18158	38.13995
-1.05973	0.39214	0.94364	837.0311	791.6603
-1.1337	0.66613	0.88207	168.515	148.4616
1.37364	0.0702	1.37364	203.241	278.9611
1.35474	0.00066	1.35474	1065.913	1445.865
-1.06747	0.47554	0.9368	520.2847	486.9869
1.00584	0.92401	1.00584	840.163	845.5207
-1.02236	0.81265	0.97813	697.5559	687.023
-1.1215	0.21396	0.89166	947.9843	843.9083
-1.05086	0.30437	0.9516	2711.727	2582.146
-1.06987	0.76722	0.9347	315.3979	305.4799
-1.06366	0.85476	0.94015	172.5913	165.1924
1.10611	0.06458	1.10611	1194.308	1321.057
-1.00889	0.90513	0.99119	22312.84	22440.42
1.32712	0.03316	1.32712	254.9527	338.8651
1.16316	0.00373	1.16316	3116.807	3638.903
-1.0024	0.98087	0.99761	1427.933	1425.667
1.01705	0.91288	1.01705	309.6682	311.0966
-1.11766	0.10625	0.89473	1042.83	936.3269
-1.00366	0.97982	0.99636	326.1392	327.5122
-1.00761	0.88828	0.99244	3530.497	3509.726
-1.07392	0.83847	0.93117	169.2955	161.45
1.07076	0.6484	1.07076	464.9892	485.1916
-1.03099	0.6735	0.96994	2776.107	2694.138
1.08176	0.27148	1.08176	4798.361	5209.107
1.22032	0.60246	1.22032	95.43622	114.2034
1.05717	0.6171	1.05717	1384.522	1459.557
1.25658	1.02E-06	1.25658	3550.913	4469.506
1.0362	0.94936	1.0362	93.55328	95.61957
-1.02726	0.71412	0.97347	3308.926	3163.427
1.00419	0.94392	1.00419	3261.562	3255.593
-1.086	0.78568	0.92081	202.0909	190.5231
1.1019	0.02114	1.1019	10510.73	11571.69
1.01311	0.84267	1.01311	3494.226	3558.449
-1.02003	0.74806	0.98036	1215.295	1189.776
-1.057	0.45639	0.94608	601.1774	568.337
1.01658	0.84326	1.01658	804.439	814.5541
-1.00573	0.9026	0.9943	1850.958	1838.905
1.5003	0.114	1.5003	151.0518	221.5284
1.02379	0.78814	1.02379	450.3134	460.7413
1.1856	0.58043	1.1856	148.4939	176.7029
1.02444	0.7511	1.02444	1625.942	1661.448
-1.02424	0.70617	0.97633	852.114	833.3708
-1.17517	0.07588	0.85094	2087.615	1774.851

-1.03421	0.6515	0.96692	888.2312	856.4561
1.14269	0.09628	1.14269	1768.251	2006.932
-1.00794	0.95996	0.99212	274.1805	272.1888
-1.07469	0.57062	0.9305	664.04	622.8738
1.00884	0.88726	1.00884	2645.312	2687.097
1.22418	0.00768	1.22418	4817.698	5970.985
-1.09266	0.5698	0.9152	349.1061	319.9245
1.01803	0.84297	1.01803	9968.303	10276.65
-1.08028	0.42793	0.92569	732.2584	683.8712
1.18108	0.1154	1.18108	859.0405	1007.977
1.05698	0.57076	1.05698	734.219	770.1825
1.06196	0.30184	1.06196	1717.022	1821.617
-1.3533	0.00007	0.73893	9367.542	6826.328
1.07096	0.58873	1.07096	341.4964	368.4432
-1.05215	0.46329	0.95044	1109.959	1058.489
1.04082	0.65392	1.04082	2536.576	2667.974
-1.11938	0.17132	0.89335	3518.35	3094.947
1.00465	0.95108	1.00465	7889.109	7948.161
1.04958	0.5165	1.04958	1332.891	1393.642
1.02942	0.67884	1.02942	1053.525	1081.983
-1.06321	0.26137	0.94055	1333.87	1253.612
1.24551	0.0001	1.24551	8914.017	11037.58
1.02895	0.6467	1.02895	1529.824	1573.903
1.53364	0.4282	1.53364	51.21857	77.68008
1.01443	0.86107	1.01443	653.3799	665.9254
1.04585	0.59933	1.04585	852.9857	897.7632
-1.01013	0.88822	0.98997	2797.527	2767.507
1.0325	0.77058	1.0325	737.5814	768.3561
1.03168	0.72669	1.03168	989.1939	1017.058
-1.16481	0.45241	0.85851	347.0212	313.1791
1.011	0.89409	1.011	824.2351	838.8063
1.07223	0.52489	1.07223	396.1109	425.9016
1.12661	0.559	1.12661	164.0638	184.2447
1.07441	0.16132	1.07441	2923.542	3140.072
1.06546	0.20144	1.06546	2311.698	2463.98
-1.01138	0.92567	0.98875	338.9712	335.6128
1.01168	0.80997	1.01168	4720.478	4768.541
-1.0156	0.78341	0.98464	2863.241	2814.598
1.0567	0.33228	1.0567	978.5836	1033.862
1.15838	0.00072	1.15838	10332.07	11951.26
1.01308	0.86481	1.01308	673.4818	684.814
1.00766	0.8943	1.00766	9775.914	9889.604
-1.3081	0.78731	0.76447	59.78041	47.23244
-1.03341	0.79454	0.96767	5419.674	5043.168
-1.04654	0.93278	0.95553	103.8226	101.5803
1.04996	0.6995	1.04996	73854.45	80745.14
-1.06328	0.76791	0.94048	295.5018	279.9589
-1.09505	0.7613	0.9132	201.4272	181.5131
-1.05064	0.90917	0.9518	132.0501	129.0349
-1.12454	0.11739	0.88925	1274.656	1138.244
-1.17706	0.10725	0.84957	3787.039	3160.799
1.0936	0.88316	1.0936	83.98709	92.78404

-1.03769	0.74644	0.96368	4492.09	4243.563
1.2096	0.02991	1.2096	5853.065	7189.877
1.09034	0.33201	1.09034	4246.888	4672.241
1.38079	0.09651	1.38079	211.644	288.8061
1.02257	0.96754	1.02257	88.63757	91.0984
1.08381	0.60049	1.08381	243.7519	263.3596
1.08683	0.35244	1.08683	962.8169	1040.655
1.10449	0.32898	1.10449	675.8813	739.3131
1.13925	0.25356	1.13925	2537.303	2941.209
1.10729	0.14681	1.10729	906.1738	1002.732
-1.05637	0.42357	0.94663	1193.423	1130.425
1.05405	0.59555	1.05405	2874.539	2993.712
-1.01403	0.87422	0.98616	3705.375	3610.25
-1.03408	0.65087	0.96704	892.234	859.2485
-1.13818	0.65924	0.8786	203.7639	177.5186
-1.17346	0.87515	0.85218	53.46916	46.62715
-1.05751	0.33365	0.94562	2498.736	2361.832
1.2702	0.00096	1.2702	4161.571	5331.798
1.10584	0.13608	1.10584	4622.709	5071.316
1.00136	0.98131	1.00136	2854.002	2877.714
1.22315	0.00028	1.22315	2524.457	3092.713
-1.04657	0.5547	0.9555	1377.688	1318.117
1.04501	0.51772	1.04501	702.6599	733.7615
1.03596	0.71742	1.03596	1690.497	1742.1
1.03973	0.70822	1.03973	666.9995	700.4921
-1.16883	0.17807	0.85556	805.5905	697.0544
-1.1672	0.48723	0.85675	302.7415	258.6062
1.01164	0.87073	1.01164	1785.438	1794.177
-1.02036	0.7985	0.98004	1176.529	1157.497
1.00693	0.94729	1.00693	454.0107	459.9661
-1.00393	0.92722	0.99608	2642.25	2631.896
-1.08336	0.83708	0.92305	158.5257	140.8811
-1.1155	0.25239	0.89646	1166.906	1050.276
-1.0016	0.9917	0.9984	305.0741	302.3319
-1.05644	0.4628	0.94657	888.2238	843.6472
1.21979	0.00401	1.21979	2034.643	2491.821
-1.13907	0.6334	0.87791	219.1775	192.494
1.00748	0.86937	1.00748	2547.662	2566.155
-1.00027	0.99718	0.99973	1832.588	1848.325
1.04955	0.4737	1.04955	1610.672	1689.328
1.12923	0.31203	1.12923	1279.078	1435.521
-1.17634	0.47143	0.8501	349.7361	289.1635
1.0781	0.22698	1.0781	2328.445	2516.626
1.04553	0.65225	1.04553	1656.043	1734.161
-1.02702	0.91789	0.97369	235.8189	233.4251
-1.27701	5.56E-09	0.78308	7002.992	5482.526
1.07127	0.47472	1.07127	1016.936	1082.618
-1.00357	0.98468	0.99644	214.6924	215.6939
1.01898	0.82959	1.01898	2077.531	2104.257
1.04976	0.33362	1.04976	2240.101	2351.844
1.04594	0.63483	1.04594	877.3113	911.3892
-1.5161	0.01931	0.65959	6281.309	3847.254

-1.01249	0.89398	0.98767	604.4281	593.2758
1.13884	0.39999	1.13884	260.5189	294.4695
-1.12583	0.1821	0.88823	458.2228	406.6234
-1.01138	0.93847	0.98874	267.8673	265.2669
1.3616	0.00036	1.3616	6089.967	8193.813
1.01179	0.84258	1.01179	4179.213	4222.02
1.08706	0.7471	1.08706	149.8811	162.0257
1.07831	0.63261	1.07831	257.3364	279.8853
-1.14261	0.39257	0.87519	575.6159	495.0937
-1.16351	0.54162	0.85947	292.8208	244.2281
-1.49582	5.79E-08	0.66853	37295.07	24522.06
-1.20223	0.04313	0.83179	889.6392	744.114
-1.05557	0.37246	0.94736	3330.656	3158.315
-1.14254	0.1747	0.87524	4180.239	3594.546
-1.02241	0.70977	0.97808	1943.977	1897.744
-1.02814	0.56367	0.97263	2796.139	2721.085
1.23399	0.00263	1.23399	1057.261	1304.463
-1.04862	0.87834	0.95363	193.6165	181.1779
-1.07906	0.21909	0.92673	5766.026	5283.971
-1.26583	0.00035	0.79	7490.516	6009.264
-1.07737	0.43574	0.92819	861.4497	799.9229
-1.06141	0.48465	0.94214	1840.459	1743.839
-1.45677	0.00021	0.68645	822.649	568.865
-1.10986	0.56209	0.90102	419.6276	371.5082
-1.09252	0.23814	0.91532	2898.8	2640.284
1.06948	0.43909	1.06948	863.254	925.4542
-1.05332	0.40628	0.94938	2788.769	2681.9
1.10736	0.58303	1.10736	316.9404	340.1543
1.00676	0.97198	1.00676	225.3442	224.1426
1.01409	0.89815	1.01409	420.606	424.539
-1.0489	0.68435	0.95338	393.3354	375.8829
1.01696	0.85186	1.01696	582.4045	594.6982
1.37009	0.00003	1.37009	1129.01	1546.771
1.11399	0.35973	1.11399	1232.505	1381.579
-1.00828	0.87615	0.99178	43131.16	43033.06
2.15227	0.0006	2.15227	712.7908	1558.891
1.04503	0.41114	1.04503	1144.628	1195.406
1.00813	0.8629	1.00813	3626.396	3656.165
-1.05048	0.64686	0.95195	3451.959	3344.209
-1.06598	0.31663	0.93811	1827.427	1715.107
-1.09128	0.48469	0.91635	476.6453	437.0893
-1.4296	0.12264	0.6995	343.2033	249.2347
1.17106	0.08264	1.17106	4302.288	5172
-1.15419	0.05986	0.86641	1634.126	1426.606
1.0092	0.90193	1.0092	756.8309	764.3511
-1.05093	0.71911	0.95154	453.655	432.049
1.10436	0.70002	1.10436	212.1044	234.3159
-1.01147	0.82103	0.98866	3783.549	3741.714
-1.06628	0.65538	0.93784	385.9244	363.6061
-1.55187	1.09E-09	0.64439	11861.42	7540.301
-1.01357	0.9274	0.98661	382.3345	383.6193
-1.3002	0.00008	0.76911	5244.017	3980.947

-1.0771	0.09085	0.92842	3676.168	3411.939
1.09533	0.05452	1.09533	2109.806	2310.252
1.01948	0.95819	1.01948	144.9749	149.4102
1.05649	0.38277	1.05649	13661.78	14630.21
1.04737	0.52799	1.04737	3196.851	3329.438
1.10799	0.58206	1.10799	299.0435	322.4174
-1.55786	0.00119	0.64191	7134.718	4374.026
-1.00609	0.91741	0.99395	4187.844	4202.512
-1.05788	0.78588	0.94528	301.7416	288.0703
1.06182	0.89628	1.06182	113.2846	119.5727
1.04889	0.5895	1.04889	651.9296	680.648
-1.15873	0.50632	0.86301	302.5125	256.9739
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1.12433	0.56175	1.12433	229.6372	257.9517
-1.01165	0.87319	0.98849	1014.903	1007.096
1.06713	0.47513	1.06713	1356.613	1445.582
-1.04163	0.88867	0.96003	231.4289	221.347
-1.0523	0.74272	0.9503	322.8394	307.0302
1.06502	0.69341	1.06502	292.0199	310.1569
1.00864	0.94196	1.00864	381.2256	382.898
1.01239	0.83288	1.01239	2498.323	2533.548
1.10024	0.12849	1.10024	851.9764	937.3805
1.15657	0.21715	1.15657	3962.703	4427.783
-1.00918	0.97898	0.99091	158.9453	159.2369
-1.00565	0.99373	0.99438	75.31495	77.64559
-1.07799	0.863	0.92766	122.5347	114.637
1.12506	0.04321	1.12506	942.7467	1060.197
1.19487	0.74888	1.19487	96.53516	123.076
1.02251	0.84085	1.02251	384.0499	390.7015
-1.06558	0.39114	0.93846	626.4529	588.6343
1.21989	0.00389	1.21989	2371.75	2875.117
-1.00453	0.92512	0.99549	2021.896	2014.145
1.09974	0.03299	1.09974	3941.774	4330.095
1.39564	0.04072	1.39564	338.6085	460.6006
1.06031	0.5221	1.06031	2140.345	2296.889
1.19079	0.78201	1.19079	73.74382	97.5287
1.0216	0.72836	1.0216	1146.674	1173.001
1.09312	0.40109	1.09312	558.1722	604.8005
1.22862	0.00442	1.22862	687.8248	842.7631
1.01144	0.85108	1.01144	1155.749	1166.522
-1.05722	0.87466	0.94588	132.2652	125.3014
1.01032	0.85031	1.01032	1922.099	1939.219
-1.05694	0.65737	0.94612	360.5768	338.985
1.03031	0.76542	1.03031	3750.829	3807.97
-1.02418	0.74013	0.97639	968.8782	942.9598
-1.48824	0.00028	0.67193	5251.927	3461.815
-1.29705	0.03709	0.77098	1430.314	1125.453
1.41407	8.17E-07	1.41407	1398.849	1970.658
-1.19053	0.00094	0.83996	1569.533	1318.936
-1.12566	0.1934	0.88837	1325.003	1173.538
-1.11513	0.73319	0.89676	180.6664	161.7039
1.07698	0.63121	1.07698	376.6622	402.0077

1.00726	0.93875	1.00726	625.3497	632.7015
1.08399	0.11205	1.08399	4182.491	4540.208
1.04494	0.54517	1.04494	862.8579	899.7557
-1.06319	0.93624	0.94057	75.26492	68.43389
1.36948	0.00003	1.36948	718.2927	983.167
-1.22094	0.15962	0.81904	794.3744	644.8258
-1.08754	0.89088	0.9195	97.25658	85.6403
1.11785	0.65944	1.11785	189.2482	211.4551
-1.00606	0.93059	0.99397	1774.328	1755.938
1.01992	0.79679	1.01992	1752.032	1791.948
1.0762	0.08284	1.0762	6525.775	7021.857
1.34148	0.00004	1.34148	969.7653	1300.646
-1.18794	0.00134	0.84179	3906.973	3278.896
1.05393	0.50402	1.05393	559.0193	589.3937
-1.00138	0.9979	0.99862	102.6561	103.2137
-1.03737	0.6876	0.96398	1411.482	1362.595
1.16797	0.2504	1.16797	332.4632	384.4813
-1.18908	0.91849	0.84098	27.95267	22.65545
-1.1403	0.31775	0.87696	992.8342	864.5082
1.09231	0.33926	1.09231	630.3859	683.6476
-1.09813	0.12873	0.91064	10459.84	9429.934
1.02075	0.77033	1.02075	1592.04	1628.077
-1.1093	0.22222	0.90147	3542.84	3196.542
-1.00529	0.93917	0.99474	1279.669	1268.899
1.04467	0.42177	1.04467	1508.049	1575.703
1.04502	0.60227	1.04502	613.1477	639.8278
1.12613	0.1181	1.12613	5585.628	6329.827
-1.0478	0.3035	0.95438	3814.802	3640.307
1.01402	0.84605	1.01402	2495.584	2542.006
1.12753	0.20727	1.12753	617.0172	690.3812
-1.05843	0.49044	0.94479	687.4979	649.3015
-1.04404	0.46742	0.95781	1439.827	1380.785
1.56543	0.0403	1.56543	308.6701	465.6134
-1.05617	0.55895	0.94682	30533.18	28989.49
-1.00735	0.9455	0.9927	621.4138	623.046
-1.01265	0.865	0.98751	1536.519	1517.078
-1.02578	0.75773	0.97487	1385.414	1353.101
1.04669	0.36466	1.04669	2847.45	2976.479
-1.21914	0.09693	0.82025	606.2914	503.5516
1.20659	0.01247	1.20659	150973	185810.8
1.20907	0.00106	1.20907	21428.41	25700.47
1.57863	0.00002	1.57863	2533.981	4106.167
-1.51246	0.00323	0.66117	4720.078	2936.39
1.209	0.09661	1.209	312.6185	377.2211
1.22302	0.00068	1.22302	4741.891	5837.307
-1.12453	0.08202	0.88926	16400.44	14763.1
-1.22364	0.01521	0.81723	20111.49	16797.65
-1.08938	0.61691	0.91795	217.8122	200.6917
1.06147	0.51261	1.06147	475.2124	503.4437
-1.01554	0.96247	0.9847	199.6184	187.5399
1.10518	0.49018	1.10518	354.3532	387.0096
-1.00928	0.94481	0.99081	473.0869	467.7551

1.03263	0.5542	1.03263	1214.739	1254.671
1.01261	0.90401	1.01261	3892.82	3959.016
-1.10734	0.73746	0.90307	191.5181	173.8416
-1.05418	0.29087	0.9486	7001.635	6669.871
1.09972	0.28707	1.09972	661.3163	724.1856
1.05035	0.60144	1.05035	744.5349	776.6556
1.08967	0.14562	1.08967	1216.276	1326.441
1.17221	0.07318	1.17221	4343.857	5181.496
1.00459	0.9819	1.00459	315.2827	321.0081
1.12583	0.17778	1.12583	546.2098	617.0469
1.04046	0.78277	1.04046	387.0457	408.9165
1.13801	0.43526	1.13801	388.1374	441.0284
1.14416	0.14274	1.14416	4725.765	5291.539
-1.24868	0.02896	0.80084	1401.27	1124.994
-1.00599	0.92457	0.99405	1670.854	1663.912
1.00822	0.94861	1.00822	482.252	486.8742
-1.1252	0.8969	0.88873	60.2874	55.6909
1.06436	0.77855	1.06436	198.9894	211.6476
1.51761	1.22E-16	1.51761	9466.554	14434.49
-1.12606	0.06738	0.88806	1880.235	1667.614
1.19511	0.01626	1.19511	25794.25	30398.56
1.02291	0.7594	1.02291	1082.209	1103.589
1.03349	0.78814	1.03349	284.787	294.1587
-1.04792	0.96565	0.95427	40.91992	36.50104
1.20577	0.61817	1.20577	114.9866	144.3082
1.04078	0.62315	1.04078	2627.569	2742.922
1.09174	0.4141	1.09174	776.4382	842.2775
-1.03376	0.687	0.96734	1635.394	1583.645
-1.60457	0.0067	0.62322	553.5944	356.1619
-1.16409	0.05981	0.85904	6415.472	5420.595
1.04763	0.4562	1.04763	12054.57	12720.2
-1.16701	0.05497	0.85689	966.3522	829.9082
1.16796	0.20657	1.16796	2539.727	2973.167
-1.07155	0.39145	0.93323	1259.953	1179.251
-1.04528	0.78727	0.95668	411.1074	395.7964
1.24984	0.01962	1.24984	635.4478	790.8901
1.16801	0.12679	1.16801	563.309	663.1301
-1.01984	0.84125	0.98054	7296.253	6901.237
-1.00063	0.99012	0.99937	3509.983	3510.309
-1.2716	0.28652	0.78641	279.8527	218.3553
1.0295	0.90039	1.0295	203.9571	209.721
-1.10468	0.86577	0.90524	84.74252	80.67294
1.01708	0.86461	1.01708	683.8793	692.6044
-1.10857	0.49957	0.90207	607.7078	541.8981
1.06314	0.46356	1.06314	1074.729	1139.299
1	1	1	27.53355	18.0994
-1.0925	0.20124	0.91533	1908.821	1739.624
-1.01154	0.93124	0.98859	312.0624	306.6624
-1.07161	0.93954	0.93318	58.62723	56.43648
1.18179	0.18272	1.18179	15069.91	17179.13
1.00922	0.85357	1.00922	5435.64	5500.231
1.03009	0.60802	1.03009	1773.901	1823.741

-1.17211	0.10155	0.85316	846.3167	716.4994
1.02359	0.837	1.02359	407.9666	417.5405
-1.14065	0.18943	0.87669	2259.599	1981.052
1.02227	0.7747	1.02227	568.2078	579.5582
-1.24534	0.00121	0.80299	8269.267	6572.391
-1.24083	0.01646	0.80591	1934.082	1545.232
1.05198	0.74048	1.05198	304.932	324.1973
-1.05522	0.64406	0.94767	352.3708	334.4692
-1.09332	0.09156	0.91464	4116.814	3753.917
1.02602	0.72988	1.02602	612.2	628.573
1.1635	0.58028	1.1635	153.0847	177.2026
-1.04167	0.7406	0.96	697.5075	673.1108
-1.01615	0.73607	0.98411	2064.189	2031.546
1.04218	0.78357	1.04218	13304.2	13209.92
1.04047	0.81896	1.04047	400.8787	421.6736
1.19931	0.00897	1.19931	1693.621	2022.413
-1.10178	0.12785	0.90762	2179.161	1967.825
-1.01438	0.74054	0.98583	2882.926	2842.996
-1.11461	0.1838	0.89718	2735.104	2466.435
-1.07656	0.70293	0.92889	268.0013	253.862
-1.0752	0.48979	0.93006	940.5635	870.5253
1.07705	0.61757	1.07705	215.5254	232.1735
-1.00085	0.98997	0.99915	1672.69	1670.922
-1.06585	0.38679	0.93822	873.6596	821.204
1.15106	0.13197	1.15106	775.583	898.9628
1.10296	0.07174	1.10296	3264.412	3611.611
1.11653	0.09315	1.11653	859.3246	958.0256
-1.03059	0.68916	0.97032	946.8774	914.9041
1.65021	0.01552	1.65021	337.4224	540.5145
1.1679	0.20215	1.1679	2173.693	2531.054
1.14083	0.21606	1.14083	456.3372	518.6498
-1.04599	0.65073	0.95603	482.1644	463.4547
1.00952	0.89858	1.00952	2878.934	2901.074
-1.00339	0.94186	0.99662	7430.942	7428.648
1.05319	0.43923	1.05319	3132.397	3291.785
1.04137	0.49018	1.04137	10146.35	10587.8
-1.09238	0.94002	0.91544	37.22665	32.36437
1.02202	0.73483	1.02202	2931.021	3002.414
1.092	0.60569	1.092	210.045	228.751
1.06473	0.61451	1.06473	513.7513	539.2849
1.00005	0.99963	1.00005	963.4459	974.6268
-1.01784	0.77711	0.98248	1007.649	992.8043
-1.19271	0.04171	0.83842	1380.631	1156.649
1.11556	0.72696	1.11556	151.1878	163.0583
-1.2299	0.24154	0.81308	475.9077	386.3131
-1.03223	0.79648	0.96878	609.5684	591.5497
1.00093	0.98623	1.00093	1236.089	1235.861
-1.05655	0.4015	0.94648	1530.607	1448.597
1.21044	0.02224	1.21044	655.8743	795.2669
1.06917	0.80369	1.06917	156.2517	166.9976
-1.10085	0.68893	0.90839	267.7228	239.3852
1.0789	0.09552	1.0789	2894.067	3120.382

-1.02866	0.83055	0.97213	482.3053	472.9614
1.01573	0.81265	1.01573	1577.109	1608.582
1.06927	0.57217	1.06927	802.9688	851.1528
-1.00459	0.95445	0.99543	572.3029	570.824
-1.10038	0.04825	0.90877	2014.315	1832.487
1.01385	0.75828	1.01385	3338.006	3418.915
1.04137	0.6898	1.04137	1480.269	1534.709
-1.05985	0.9202	0.94353	103.4454	92.99333
-1.03965	0.48356	0.96186	2120.788	2039.349
1.03364	0.74647	1.03364	517.7505	534.2897
-1.08902	0.88736	0.91825	94.72624	85.26071
1.002	0.97559	1.002	1434.53	1437.007
-1.72791	0.00093	0.57873	836.3684	495.3207
1.12561	0.02612	1.12561	1908.703	2150.54
1.00828	0.9701	1.00828	185.4193	185.3648
-1.05538	0.31803	0.94753	1502.83	1423.712
-1.78239	3.13E-10	0.56105	13843.52	7564.228
-1.07284	0.20625	0.93211	13644.14	12784.38
1.08745	0.42518	1.08745	509.1624	554.532
1.00702	0.93823	1.00702	1070.53	1081.804
1.25983	0.62075	1.25983	95.30364	115.3567
-1.14533	0.34615	0.87311	309.5025	269.4099
1.15156	0.01826	1.15156	4529.36	5231.181
-1.08726	0.47329	0.91975	851.8173	789.92
1.12485	0.48528	1.12485	244.1205	271.7372
-1.33959	0.00023	0.7465	2051.948	1539.768
1.09817	0.3403	1.09817	1304.298	1429.318
-1.03653	0.4718	0.96475	1909.083	1844.801
-1.01927	0.86458	0.9811	483.6923	478.3326
-1.1071	0.47726	0.90326	886.3734	813.9074
1.18304	0.00127	1.18304	3147.375	3735.198
-1.04362	0.31708	0.9582	4005.405	3840.312
-1.67096	2.05E-08	0.59846	1571.224	941.1679
1.01209	0.89073	1.01209	438.2651	444.0892
-1.10241	0.06855	0.90711	11967.7	10776.12
1.03818	0.88414	1.03818	165.7185	172.5422
-1.04615	0.36072	0.95589	4359.04	4159.756
1.01977	0.74634	1.01977	3805.223	3880.233
1.13792	0.00504	1.13792	2305.205	2622.593
-1.07001	0.29908	0.93457	38411.89	35483.08
-1.00571	0.90032	0.99432	2798.583	2782.85
1.08224	0.29073	1.08224	11157.45	12182.37
-1.04074	0.78096	0.96086	358.1391	344.381
-1.09972	0.35227	0.90932	787.2721	718.4974
1.62843	0.00002	1.62843	746.1664	1220.52
-1.05387	0.73105	0.94889	503.1415	474.5743
-1.01017	0.86123	0.98993	2415.308	2400.265
1.02077	0.76122	1.02077	3870.874	3967.771
1.01379	0.89683	1.01379	708.322	712.6775
-1.06675	0.23125	0.93742	1741.956	1631.988
1.01273	0.77713	1.01273	2321.318	2351
-1.14599	0.17995	0.87261	1039.446	917.3351

1.43993	0.00001	1.43993	1217.789	1755.731
-1.06697	0.68103	0.93723	467.6075	435.1312
-1.0029	0.96042	0.99711	2477.14	2473.049
1.05557	0.61029	1.05557	498.3502	522.3002
-1.07565	0.30335	0.92967	3276.082	3060.955
-1.01409	0.89874	0.98611	474.6249	471.7362
1.0137	0.86387	1.0137	794.2963	808.3619
-1.05721	0.73587	0.94589	373.8066	353.2661
3.05598	1.32E-19	3.05598	1139.017	3522.343
1.00014	0.99748	1.00014	8001.896	7987.329
-1.01362	0.8029	0.98657	2075.743	2046.812
1.06436	0.54887	1.06436	414.0139	439.0686
1.01684	0.78789	1.01684	1064.669	1081.164
1.03444	0.5189	1.03444	1763.929	1825.661
1.20679	0.16164	1.20679	407.4732	484.4726
1.09034	0.74902	1.09034	151.1464	164.4923
1.27375	0.00006	1.27375	4681.371	5909.401
-1.04858	0.54409	0.95367	859.4265	823.4377
1.0824	0.50975	1.0824	632.5662	675.7496
-1.20659	0.04435	0.82878	1082.111	905.6501
1.03747	0.93664	1.03747	100.2427	104.4471
1.03777	0.42458	1.03777	7001.438	7287.255
1.2948	0.00426	1.2948	87676.16	115761.5
-1.11817	0.82559	0.89432	114.2577	100.7262
-1.15445	0.68132	0.86621	172.0459	150.8201
1.16257	0.13136	1.16257	1121.772	1308.268
1.1095	0.13837	1.1095	2423.097	2693.063
1.2062	0.00003	1.2062	2480.467	2991.435
1.29109	0.58389	1.29109	107.9997	146.6569
1.24825	0.31096	1.24825	248.2213	305.5038
-1.04637	0.44438	0.95569	1131.332	1081.42
1.0951	0.65956	1.0951	236.1749	264.6175
-1.90394	0.17346	0.52523	166.8838	101.6506
-1.00094	0.9967	0.99906	244.24	245.726
-1.05033	0.61835	0.95208	656.3513	629.481
1	1	1	23.81464	22.04063
1.16814	0.04355	1.16814	668.2943	782.4923
1.01296	0.87332	1.01296	2388.499	2399.372
-1.06299	0.46453	0.94074	668.1553	626.447
1.01576	0.93043	1.01576	251.5562	257.9618
-1.0417	0.70857	0.95997	3409.032	3264.865
-1.02246	0.83868	0.97803	405.884	397.1418
-1.06967	0.31498	0.93487	5905.744	5601.168
1.02976	0.70321	1.02976	1994.891	2061.467
-1.03717	0.63616	0.96417	1401.658	1352.945
-1.07974	0.61242	0.92615	483.5423	450.742
-1.02502	0.62537	0.97559	1474.96	1439.051
-1.13702	0.1027	0.87949	19126.36	16573
-1.07429	0.71497	0.93085	316.9204	297.578
1.24828	0.03003	1.24828	3795.556	4656.857
1.08204	0.24759	1.08204	3521.909	3875.926
-1.13817	0.08677	0.8786	3528.664	3142.018

-1.04959	0.79674	0.95275	249.3301	237.4974
1.06306	0.60645	1.06306	708.3355	743.6408
1.01209	0.88988	1.01209	565.5566	570.8797
1.04234	0.64718	1.04234	452.425	471.7696
-1.06661	0.69211	0.93755	265.8644	251.2847
1.02191	0.73941	1.02191	1638.203	1675.914
-1.25201	0.53683	0.79872	169.73	134.4577
-1.2653	0.82225	0.79033	55.86497	44.57385
-1.04711	0.72435	0.95501	629.1041	610.6231
1.03085	0.60056	1.03085	1224.275	1260.483
-1.0112	0.82569	0.98893	34806.23	34308.88
-1.00663	0.96939	0.99342	309.9888	303.1371
-1.01629	0.86746	0.98397	919.6482	897.6727
1.09192	0.36649	1.09192	1089.163	1188.676
-1.04989	0.51049	0.95248	2282.008	2187.208
1.12863	0.1066	1.12863	4414.096	4924.423
-1.07176	0.83055	0.93304	176.5354	162.8615
-1.03665	0.85175	0.96465	240.1996	231.5432
1.05216	0.59035	1.05216	2180.311	2284.861
1.11834	0.02281	1.11834	1388.847	1553.656
-1.10272	0.77533	0.90685	179.6006	168.1475
-1.02731	0.94754	0.97341	129.3136	125.5612
1.04207	0.46042	1.04207	2119.354	2211.788
1.0967	0.74246	1.0967	144.5329	158.4237
-1.00134	0.98418	0.99866	2018.925	2002.973
1.07213	0.18281	1.07213	12510.27	13323.47
1.41088	8.55E-10	1.41088	984.324	1389.253
-1.23135	0.03033	0.81212	7460.711	5885.741
-1.11275	0.29605	0.89867	622.1248	563.6269
1	1	1	23.5857	22.25361
1.11317	0.02063	1.11317	2305.751	2566.235
1.23359	0.03617	1.23359	15022.96	18937.66
-1.1646	0.31199	0.85866	1063.408	925.7091
-1.13248	0.29485	0.88301	1568.763	1375.714
1.00489	0.96829	1.00489	371.2254	370.6354
-1.01086	0.91922	0.98925	763.1054	746.3444
-1.01781	0.73619	0.9825	1228.188	1207.316
1.05207	0.69078	1.05207	274.1923	288.7785
1.00297	0.96572	1.00297	1874.792	1884.372
1.15092	0.47712	1.15092	223.8172	254.6673
-1.01344	0.8099	0.98674	1039.055	1025.527
1.05469	0.36978	1.05469	10952.29	11589.5
-1.29374	0.00018	0.77295	3789.159	2900.741
1.05325	0.3959	1.05325	2370.893	2500.891
-1.01003	0.88684	0.99007	1486.856	1471.133
1.08074	0.31588	1.08074	575.2261	622.4544
1.0301	0.56766	1.0301	3835.858	3956.963
-1.17361	0.22081	0.85207	1021.121	875.7238
1.09988	0.75563	1.09988	138.9999	152.7031
-1.15564	0.02407	0.86532	1011.15	873.6943
-1.01661	0.79747	0.98366	1810.427	1780.591
1.04426	0.93708	1.04426	100.5985	101.7708

-1.17098	0.55975	0.85399	207.1949	176.8488
1.17394	0.4537	1.17394	196.6974	230.5808
-1.1807	0.61071	0.84695	158.6071	138.0952
-1.06526	0.54235	0.93874	2504.455	2311.082
-1.03523	0.89416	0.96596	225.118	216.8193
1.01844	0.9448	1.01844	266.0078	278.9202
-1.01076	0.89836	0.98936	521.0602	514.7794
1.07205	0.61876	1.07205	308.8573	329.0877
1.07967	0.39865	1.07967	890.6184	953.2206
1.42861	0.00964	1.42861	443.1732	625.5741
-1.09815	0.87897	0.91062	78.8196	68.15598
1.06968	0.53104	1.06968	684.0742	738.9945
-1.02897	0.56872	0.97184	4290.069	4154.921
1.01371	0.91949	1.01371	293.8234	297.7174
-1.22153	0.32571	0.81864	248.8057	206.8682
-1.00642	0.94029	0.99363	4802.827	4783.725
-1.06281	0.29988	0.9409	9989.869	9350.91
1.01664	0.92481	1.01664	257.3521	261.5926
-1.02715	0.6603	0.97356	24928.53	24546.93
-1.15486	0.32098	0.86591	628.712	538.7161
1.07047	0.36258	1.07047	681.838	727.3663
1.27379	0.00078	1.27379	805.687	1028.698
-1.00796	0.92087	0.9921	814.5482	810.8583
-1.03555	0.79532	0.96567	371.4266	361.4526
1.11136	0.49627	1.11136	330.8389	361.7073
-1.00536	0.91376	0.99467	4843.74	4814.652
1.28169	2.07E-07	1.28169	2562.63	3287.405
1.47077	0.01206	1.47077	12298.19	19251.74
-1.0337	0.84149	0.9674	440.9171	422.2238
-1.02065	0.9607	0.97976	132.6693	131.221
-1.50364	0.25925	0.66505	227.7668	150.6178
1.08793	0.47328	1.08793	321.8809	349.4139
1.13442	0.38935	1.13442	274.404	309.3213
-1.01608	0.81798	0.98418	1866.514	1827.808
1.14443	0.5292	1.14443	238.8384	265.9988
-1.07442	0.73905	0.93074	302.2182	279.3031
-1.00163	0.98239	0.99837	691.3552	688.6931
1.00093	0.98848	1.00093	3890.77	3936.137
-1.02506	0.64932	0.97556	2418.482	2355.492
-1.11291	0.26904	0.89855	6727.637	5926
1.04634	0.30639	1.04634	4980.944	5210.448
-1.7821	1.98E-07	0.56113	986.4552	557.6737
-1.06084	0.90997	0.94265	106.4428	100.9079
1.11609	0.04661	1.11609	2537.139	2824.67
1.39308	0.47812	1.39308	66.976	94.98897
1.07315	0.41825	1.07315	3892.072	4171.621
1.01102	0.84926	1.01102	1620.165	1635.084
-1.13007	0.91312	0.8849	31.78085	27.25352
1.09236	0.48006	1.09236	405.4931	440.0151
-1.05321	0.24387	0.94948	2832.182	2688.535
1.17187	0.36046	1.17187	296.1908	340.3217
-1.13323	0.31987	0.88244	514.632	458.4313

-1.11357	0.02396	0.89801	15458.21	13931.67
-1.24198	0.0387	0.80516	4021.749	3136.022
-1.00377	0.99423	0.99625	110.3025	106.5185
-1.0058	0.95393	0.99424	1880.232	1868.363
-1.12089	0.18164	0.89215	2443.113	2198.221
1.00732	0.91572	1.00732	1209.432	1218.365
1.5378	0.00221	1.5378	32647.79	52781.93
1.22112	0.60987	1.22112	99.38205	118.1591
-1.06585	0.19334	0.93822	68826.66	64263.28
-1.07669	0.4486	0.92877	821.476	769.4854
-1.00511	0.9377	0.99492	10205.01	10031.14
1.15553	0.23314	1.15553	524.7073	598.3019
1.02949	0.70308	1.02949	6240.115	6438.123
1.25518	0.00072	1.25518	3777.733	4701.84
1.32688	0.01477	1.32688	1724.413	2324.854
-1.0272	0.58909	0.97352	2138.591	2082.334
1.03346	0.63525	1.03346	1987.853	2056.776
1.11623	0.5499	1.11623	228.5062	252.3548
1.11868	0.31558	1.11868	597.9832	675.8528
1.01758	0.80557	1.01758	651.1783	663.4179
1.30558	0.01569	1.30558	465.8395	605.9434
-1.03582	0.46023	0.96542	3573.915	3457.995
-1.12958	0.42396	0.88529	545.2126	487.8727
1.10579	0.52318	1.10579	582.4666	628.3133
1.29289	0.09121	1.29289	280.7011	362.2419
-1.0347	0.63124	0.96646	1479.812	1427.209
1.4335	0.71516	1.4335	40.56676	53.75254
-1.09855	0.9359	0.91029	42.37603	38.79773
1.0399	0.90354	1.0399	158.7242	165.3425
1.07256	0.64442	1.07256	375.4266	397.104
-1.01659	0.79286	0.98368	5442.119	5309.521
1.32383	0.00587	1.32383	2278.248	3016.604
1.39092	0.00886	1.39092	459.9097	630.5745
1.02032	0.86099	1.02032	15946.7	16994.13
-1.10133	0.50258	0.90799	954.4807	876.4229
1.21061	0.56774	1.21061	130.4499	157.8124
-1.05332	0.76622	0.94938	248.7279	235.6643
1.18022	0.15606	1.18022	1108.778	1303.74
1.06783	0.40751	1.06783	599.0429	637.6538
-1.0277	0.70199	0.97304	3609.75	3573.679
1.03837	0.76633	1.03837	356.3176	367.1378
1.06488	0.77256	1.06488	247.5226	256.3218
1.04623	0.62775	1.04623	1126.962	1179.936
1.13764	0.30645	1.13764	345.9536	395.776
1.02471	0.59367	1.02471	3717.88	3811.814
-1.02356	0.66473	0.97698	3775.566	3687.707
1.1691	0.41434	1.1691	385.4435	438.69
-1.15265	0.2037	0.86756	661.0508	573.759
-1.01473	0.89843	0.98549	559.8525	548.9788
1.01572	0.88217	1.01572	809.8474	820.2719
1.03908	0.58552	1.03908	11208.07	11753.75
-1.10262	0.54672	0.90693	428.0107	387.6669

1.06476	0.61141	1.06476	483.2117	521.0614
1.01195	0.87054	1.01195	1942.109	1967.761
1.08671	0.38315	1.08671	657.8834	710.3148
1.0399	0.50442	1.0399	16650.15	17173.71
-1.08365	0.87103	0.92281	97.65573	87.84895
1	1	1	25.45724	21.73071
-1.08699	0.85075	0.91997	139.2719	123.4555
-1.03676	0.59679	0.96454	2382.766	2284.57
-1.08935	0.12116	0.91798	4036.684	3725.546
1.01556	0.82664	1.01556	2757.283	2814.944
-1.03184	0.53001	0.96914	2556.34	2478.818
1.11567	0.08195	1.11567	9104.641	10190.76
-1.01119	0.86144	0.98893	1130.398	1119.101
1.18636	0.09633	1.18636	390.8683	462.2371
1.36868	0.50195	1.36868	82.20856	109.6403
-1.05903	0.96303	0.94426	29.95618	26.0579
1.03273	0.82627	1.03273	289.2865	301.2919
1.19059	0.53806	1.19059	146.2837	173.5181
1.02648	0.69869	1.02648	3141.686	3224.729
1.01435	0.86575	1.01435	947.3825	953.5037
-1.18464	0.88118	0.84413	39.99183	34.76553
1.07133	0.36831	1.07133	1222.964	1311.402
1.10012	0.08573	1.10012	1236.333	1358.875
-1.07187	0.75566	0.93295	285.7329	263.3235
-1.02038	0.89661	0.98003	367.9384	354.1791
-1.07398	0.67018	0.93112	285.24	268.9921
1.02853	0.84438	1.02853	298.1967	306.9334
-1.00787	0.92435	0.9922	1305.802	1300.263
-1.02157	0.87776	0.97889	587.5355	586.72
-1.20785	0.57431	0.82792	189.1995	153.7945
1.01805	0.85808	1.01805	1841.824	1866.883
1.34702	0.19334	1.34702	215.8554	282.6603
1.21398	0.044	1.21398	600.0839	723.7576
-1.01156	0.87679	0.98857	1884.452	1875.917
1.05998	0.53277	1.05998	656.8995	691.7427
-1.02297	0.59838	0.97755	8102.543	7921.678
1.06837	0.24162	1.06837	887.3727	948.3353
-1.005	0.96475	0.99503	500.6647	498.1173
-1.03287	0.75255	0.96817	1114.547	1080.459
1.03644	0.64674	1.03644	755.1016	779.7311
-1.02092	0.68577	0.97951	1388.83	1361.262
1.17783	0.16339	1.17783	386.63	453.4446
-1.03657	0.83511	0.96472	274.5501	268.499
1.10856	0.16147	1.10856	2117.516	2335.705
-1.12123	0.11169	0.89188	1559.889	1385.917
1.07143	0.42269	1.07143	652.0673	695.1195
-1.02516	0.69617	0.97546	3072.957	3003.59
1.07913	0.34423	1.07913	3766.961	4165.132
-1.00798	0.92784	0.99208	954.2888	951.2119
-1.07413	0.37525	0.93099	1911.102	1771.417
1.08322	0.78664	1.08322	165.7743	180.275
1.11684	0.70173	1.11684	119.341	132.5169

-1.05658	0.27546	0.94645	2127.667	2013.508
1.25393	0.01656	1.25393	576.5324	727.5941
1.0576	0.27438	1.0576	11498.73	12168.47
-1.4464	0.06595	0.69137	427.4906	308.3769
1.1482	0.3049	1.1482	4713.019	5513.809
-1.28771	1.22E-07	0.77657	3849.105	2983.254
1.143	0.0532	1.143	3990.533	4577.295
1.01199	0.87888	1.01199	1259.101	1268.859
1.02432	0.84078	1.02432	644.0982	668.4111
1.00777	0.94695	1.00777	353.7	356.5392
1.00724	0.99166	1.00724	79.24662	83.5002
1.12944	0.03931	1.12944	1371.828	1550.151
-1.53524	2.22E-07	0.65136	1377.527	897.5299
1.02761	0.6693	1.02761	3312.458	3404.867
1.90033	0.00002	1.90033	427.2999	796.7651
1.03732	0.647	1.03732	800.2028	832.4233
1.02142	0.75785	1.02142	802.1794	819.4059
1.61131	3.56E-15	1.61131	5412.754	8681.246
1.86283	7.97E-11	1.86283	814.1275	1518.093
1.09844	0.24014	1.09844	2844.624	3140.672
1.10031	0.20785	1.10031	1085.136	1191.501
1.03167	0.70324	1.03167	3659.397	3767.45
-1.00618	0.98143	0.99386	173.7411	173.0009
-1.09576	0.84231	0.91261	126.6301	113.9342
-1.00464	0.9793	0.99538	377.0455	371.0779
-1.05467	0.84673	0.94816	209.9678	197.1093
-1.00184	0.9815	0.99816	1401.435	1403.747
-1.11116	0.92641	0.89996	35.6838	33.46887
1.00691	0.92586	1.00691	1263.266	1273.443
-1.02479	0.7831	0.97581	3353.405	3225.445
-1.00394	0.96481	0.99607	839.6693	831.9008
-1.02854	0.62243	0.97225	2299.155	2236.444
1.4964	0.03101	1.4964	283.3823	409.2984
-1.08263	0.71083	0.92367	275.8613	256.3723
-1.02773	0.64307	0.97302	1719.69	1672.753
1.02401	0.61639	1.02401	1893.126	1938.649
1.23529	0.0215	1.23529	499.1211	615.5812
1.00153	0.98278	1.00153	840.8308	839.5667
1.1659	0.69118	1.1659	103.3539	118.6632
1.00072	0.98767	1.00072	1999.962	2003.161
1.2146	0.12679	1.2146	426.4014	515.5549
1.16253	0.0105	1.16253	2423.318	2818.838
-1.13712	0.36213	0.87941	276.6391	243.6046
-1.15358	0.39274	0.86686	287.161	248.863
-1.12829	0.42428	0.8863	4950.433	4150.216
1.01144	0.8059	1.01144	3008.986	3043.377
-1.54406	0.00003	0.64764	55394.27	34589.05
-1.13663	0.15992	0.87979	505.3373	445.1299
1.12402	0.17901	1.12402	907.9452	1017.537
-1.02243	0.8457	0.97806	375.8546	368.0331
1.03083	0.84832	1.03083	250.2419	258.7481
1.24672	0.00142	1.24672	3057.814	3776.681

1.03174	0.86916	1.03174	271.0664	280.4424
1.01469	0.80791	1.01469	8313.566	8457.164
1.08168	0.42437	1.08168	456.6025	492.0765
1.23991	0.00444	1.23991	6190.308	7820.643
-1.43592	7.00E-12	0.69642	4759.104	3298.761
1.26385	0.09367	1.26385	437.4197	543.6765
1.03679	0.8502	1.03679	286.9478	298.976
1.13471	0.0873	1.13471	6995.107	8076.276
1.00099	0.99331	1.00099	588.5276	596.8258
-1.24558	0.03467	0.80284	1651.505	1316.467
-1.04277	0.87883	0.95898	177.2377	171.1095
-1.04246	0.56775	0.95927	1692.566	1616.691
1.06042	0.80184	1.06042	196.6081	208.9392
1.46197	0.15042	1.46197	154.117	228.0039
-1.17855	0.18913	0.8485	797.6512	676.3687
1.08794	0.22699	1.08794	6066.522	6536.293
-1.0373	0.83711	0.96404	360.1292	350.137
-1.03035	0.56065	0.97054	2732.019	2655.703
1.17398	0.34216	1.17398	389.2772	443.3737
-1.00202	0.96531	0.99799	2100.995	2096.701
1.05696	0.41474	1.05696	14457.71	15417.7
1.00029	0.99761	1.00029	686.3029	691.1685
-1.06406	0.2683	0.9398	1422.741	1337.25
1.13295	0.11639	1.13295	1303.98	1482.812
-1.22716	0.2134	0.81489	766.6801	640.9028
1.02381	0.63673	1.02381	3196.888	3270.242
-1.03718	0.92525	0.96415	143.6462	139.9563
1.05407	0.34005	1.05407	5388.043	5721.155
1.41849	0.00154	1.41849	1537.57	2195.465
1.04071	0.53234	1.04071	716.4061	746.2424
-1.01982	0.69962	0.98057	3792.379	3716.505
-1.16748	0.3943	0.85655	435.9941	366.0922
-1.10261	0.51007	0.90694	637.6444	576.1826
1.0374	0.86425	1.0374	231.1795	238.1068
-2.53037	1.50E-32	0.3952	12531.47	5033.485
-1.01226	0.9196	0.98788	388.8288	385.3101
-1.13244	0.25302	0.88305	1143.274	1017.015
1.50218	0.58506	1.50218	53.16125	80.41779
-1.01653	0.86388	0.98374	562.7169	552.0972
-1.2895	0.00244	0.77549	5975.596	4730.359
-1.13448	0.8356	0.88146	95.8571	87.33851
-1.0509	0.50094	0.95157	1147.95	1097.288
-1.01678	0.83031	0.9835	15561.49	15020.49
1.01662	0.86375	1.01662	2016.382	2040.146
-1.48794	0.02503	0.67207	1235.472	839.0995
-1.10422	0.63902	0.90561	277.9999	260.0787
-1.12961	0.00615	0.88526	5123.749	4530.709
-1.34524	0.01441	0.74336	1383.479	1031.456
-1.0963	0.45308	0.91216	833.2206	769.782
-1.39931	0.64414	0.71464	78.22276	55.23135
-1.01883	0.82657	0.98152	916.8649	906.4661
-1.1271	0.10351	0.88723	19056.2	16573.43

-1.0206	0.95706	0.97982	146.4974	141.2807
-1.036	0.47636	0.96525	1949.509	1880.38
1.06259	0.63383	1.06259	634.3976	663.4459
1.01528	0.89919	1.01528	555.9863	570.4659
-1.05898	0.46941	0.94431	4991.704	4743.086
-1.05632	0.53509	0.94668	8796.836	8157.042
-1.02103	0.9177	0.9794	282.3979	285.1131
-1.0158	0.79158	0.98444	2020.224	1985.406
1.06252	0.3401	1.06252	1552.349	1646.687
1.08743	0.74585	1.08743	184.3336	199.596
1.09968	0.5875	1.09968	297.8799	328.7147
-1.03066	0.5569	0.97025	5049.731	4907.371
1.01205	0.97613	1.01205	139.2388	146.3091
1.04672	0.73203	1.04672	507.9641	540.8834
1.04895	0.5046	1.04895	1096.735	1150.665
-1.03162	0.87766	0.96935	296.7549	290.1762
1.03683	0.73375	1.03683	590.4514	606.2323
1.0786	0.25531	1.0786	2382.351	2575.094
-1.19009	0.11683	0.84028	914.778	778.0538
1.06641	0.45988	1.06641	686.7283	733.887
-1.00946	0.88774	0.99062	2552.113	2527.005
1.14233	0.0982	1.14233	10038.6	11664.87
1.02254	0.66292	1.02254	1327.814	1357.917
-1.08543	0.43287	0.92129	582.2335	541.098
-1.05214	0.49612	0.95044	1008.529	958.9636
-1.06667	0.65604	0.9375	302.5456	285.6706
1.04662	0.49915	1.04662	2147.098	2249.675
-1.10801	0.7217	0.90252	215.157	198.3264
1.06957	0.61536	1.06957	279.9462	298.4202
-1.02182	0.93457	0.97864	228.1345	227.3274
1.00667	0.89254	1.00667	4463.969	4494.906
1.10269	0.13033	1.10269	958.2232	1054.748
-1.10669	0.13551	0.9036	1757.979	1588.032
1.00509	0.97174	1.00509	342.4298	345.5126
-1.08631	0.4024	0.92055	1592.814	1463.977
-1.02562	0.69611	0.97502	1500.743	1461.681
-1.02521	0.72601	0.97541	1092.525	1065.432
1.02686	0.63147	1.02686	1010.106	1037.286
-1.01915	0.94643	0.98121	205.0899	202.8885
-1.0321	0.65269	0.9689	2046.138	1988.412
-1.06149	0.61591	0.94207	380.3504	360.3254
1.11484	0.18999	1.11484	570.3008	633.7067
-1.04936	0.71737	0.95296	1337.421	1274.656
-1.00234	0.96059	0.99766	1816.334	1812.689
-1.12788	0.167	0.88662	3319.463	2911.17
-1.0774	0.29446	0.92816	1793.965	1670.631
-1.00668	0.98568	0.99336	148.6147	148.3187
3.00671	0.00002	3.00671	276.3914	801.4979
1.03824	0.72224	1.03824	2685.936	2786.721
1.03599	0.67898	1.03599	813.6963	838.8695
-1.03221	0.4615	0.9688	5052.936	4898.926
1.00345	0.95013	1.00345	2195.559	2205.188

-1.25594	0.00002	0.79621	4452.825	3563.06
-1.14687	0.84626	0.87194	89.95415	73.4503
-1.02235	0.72616	0.97814	1578.771	1536.229
-1.02775	0.59869	0.973	3571.903	3495.118
1.00205	0.97105	1.00205	1400.027	1403.916
-1.01574	0.81507	0.9845	961.3613	943.7503
-1.08082	0.89574	0.92522	93.46508	85.17363
1.02996	0.63238	1.02996	1718.841	1771.322
1.00103	0.98286	1.00103	2461.715	2462.251
1.30715	0.56408	1.30715	81.26675	102.8169
1.03019	0.76317	1.03019	1971.722	2022.642
1.01507	0.85974	1.01507	1245.431	1268.881
1.05445	0.72953	1.05445	398.7547	416.7976
-1.02519	0.75913	0.97543	1182.28	1154.101
-1.13667	0.54859	0.87976	294.8436	259.7202
-1.35303	2.15E-06	0.73908	6104.116	4477.513
1.00473	0.95346	1.00473	706.1724	708.6437
1.04393	0.67049	1.04393	660.1653	683.5017
1.01455	0.98199	1.01455	83.93529	84.25208
-1.0109	0.9116	0.98921	6509.51	6295.607
1.00632	0.98642	1.00632	144.5823	144.6465
-1.16115	0.02239	0.86121	1186.348	1022.697
-1.19994	0.78542	0.83338	64.31406	53.59226
1.11509	0.18483	1.11509	1658.084	1857.036
-1.09917	0.53814	0.90977	364.8817	331.3689
-1.02298	0.67132	0.97754	1454.837	1422.365
1.19699	0.3766	1.19699	235.188	281.6099
-1.11694	0.09637	0.89531	1468.45	1315.677
-1.19751	0.21456	0.83506	689.7911	569.0875
1.07502	0.75232	1.07502	214.4098	230.3763
1.05098	0.35862	1.05098	3199.675	3364.668
-1.03698	0.93065	0.96434	134.047	128.4424
1.02817	0.62417	1.02817	5019.881	5178.56
1.06204	0.55216	1.06204	617.9473	661.0631
-1.43383	1.77E-06	0.69743	2352.496	1632.933
1.22411	0.03969	1.22411	496.6809	611.0418
-1.07115	0.53858	0.93358	1718.372	1628.593
1.14606	0.05294	1.14606	4770.228	5408.933
1.5547	3.69E-07	1.5547	752.979	1167.26
-1.16507	0.02998	0.85832	1114.701	960.2181
1.05613	0.40361	1.05613	4708.542	5033.168
-1.02739	0.87144	0.97334	450.556	435.3886
1.08243	0.86078	1.08243	91.30473	96.05795
1.02311	0.76943	1.02311	2226.895	2243.365
1.06655	0.4804	1.06655	745.4285	789.8344
-1.01783	0.87055	0.98248	502.5266	490.7081
1.00518	0.95616	1.00518	704.2623	702.1484
1.07142	0.21048	1.07142	1147.339	1229.101
-1.06854	0.42876	0.93585	48643.7	46546.99
1.08307	0.64086	1.08307	321.0249	341.1345
-1.12363	0.64422	0.88997	231.563	204.5252
1.08511	0.3014	1.08511	892.1623	969.7568

1.00096	0.99745	1.00096	193.8386	191.0287
-1.39268	0.00148	0.71804	12040.67	8774.771
-1.07956	0.20901	0.9263	11170.02	10227.53
-1.04952	0.84145	0.95281	252.8595	238.7253
1.00304	0.98399	1.00304	363.503	364.0664
-1.03504	0.78206	0.96615	5811.605	5363.884
1.01898	0.86006	1.01898	1593.567	1645.469
-1.18403	0.17186	0.84457	1949.227	1653.273
-1.01701	0.92299	0.98327	328.7725	331.0745
-1.46479	0.65403	0.68269	59.32687	38.62101
-1.02032	0.97818	0.98009	74.96753	70.35021
-1.05457	0.55539	0.94825	612.3259	581.6227
-1.02887	0.96897	0.97194	70.34401	69.2207
-1.12325	0.74934	0.89027	160.4985	143.064
-1.01989	0.80428	0.9805	1203.345	1176.732
1.08056	0.23301	1.08056	756.3835	817.07
-1.01497	0.88868	0.98525	456.5729	452.4164
1	1	1	20.859	22.99125
1.06191	0.42651	1.06191	881.2658	932.3823
-1.09477	0.84722	0.91343	101.1369	93.18277
-1.04303	0.60507	0.95875	977.2102	935.4854
1.11043	0.67876	1.11043	382.5925	443.7863
1.22613	0.08026	1.22613	616.794	746.9959
1.04164	0.58703	1.04164	826.3908	862.7805
1.02321	0.67059	1.02321	1524.734	1557.653
1.02022	0.67688	1.02022	5315.793	5408.531
1.04556	0.5557	1.04556	1296.7	1355.285
1.26783	0.00424	1.26783	4795.42	6112.031
1.06438	0.2043	1.06438	6848.429	7286.988
-1.03999	0.94568	0.96155	95.97801	93.52753
1.09872	0.31786	1.09872	575.263	630.7726
1.03722	0.87036	1.03722	276.5963	291.6892
-1.00487	0.98115	0.99515	186.9753	185.3261
1.15658	0.68049	1.15658	121.1947	140.9168
1.26283	0.14351	1.26283	307.4661	383.0691
1.04235	0.88535	1.04235	153.2859	159.7207
-1.02653	0.81708	0.97415	365.5626	356.8558
1.12165	0.04355	1.12165	1347.075	1511.69
-1.11012	0.32404	0.9008	493.0518	446.04
-1.00469	0.94242	0.99533	1419.654	1413.621
1.02589	0.69505	1.02589	2131.187	2196.338
1.04703	0.82028	1.04703	327.8363	349.5489
1.04753	0.36319	1.04753	2313.59	2425.488
-1.00058	0.99372	0.99942	930.2001	932.2628
1.07759	0.43125	1.07759	665.338	720.9113
1.34012	0.82046	1.34012	30.57878	43.92218
1.02324	0.98826	1.02324	28.10468	27.7359
1.02295	0.70956	1.02295	8071.892	8223.401
-1.62189	0.00102	0.61656	3963.357	2404.112
-1.08068	0.66343	0.92535	341.5619	314.7329
1.07498	0.43777	1.07498	2369.408	2583.993
-1.06094	0.55586	0.94256	593.0115	561.4647

-1.26637	0.00004	0.78966	18847.65	14761.68
1.15768	0.57466	1.15768	201.4679	231.9107
1.03379	0.74813	1.03379	19980.02	21138.94
-1.03584	0.47333	0.9654	2700.667	2606.407
-1.08465	0.26144	0.92196	1115.918	1033.618
-1.17069	0.81464	0.8542	73.92175	63.34522
-1.08445	0.34097	0.92213	15260.83	13879.78
1.07151	0.72208	1.07151	223.425	236.4214
1	1	1	26.38165	18.90975
-1.02829	0.59724	0.97249	2603.473	2531.807
1.1892	0.08163	1.1892	1072.856	1279.824
-1.23831	0.00127	0.80755	1561.678	1259.021
1.05098	0.6063	1.05098	4520.457	4782.695
-1.18613	0.5562	0.84308	216.3565	180.6822
1.19568	0.00257	1.19568	1187.927	1421.156
1.3202	0.01725	1.3202	412.1984	547.6529
1.02406	0.71163	1.02406	2275.788	2339.173
1.02948	0.54449	1.02948	2581.663	2660.548
1.12922	0.27489	1.12922	1928.205	2138.078
-1.00514	0.91075	0.99489	4120.013	4101.857
1.08496	0.1692	1.08496	1401.385	1519.194
1.03847	0.8776	1.03847	232.156	238.8862
-1.06851	0.60274	0.93588	1725.537	1614.9
1.09968	0.48027	1.09968	645.9334	697.6589
1.04203	0.85781	1.04203	205.1252	209.7224
-1.05929	0.64224	0.94403	352.4965	333.2939
1.08057	0.43973	1.08057	608.9675	653.5409
-1.11362	0.04722	0.89797	4862.12	4344.874
-1.17517	0.67516	0.85094	156.0404	131.1026
-1.01879	0.93416	0.98156	206.1532	202.3948
1.12443	0.11993	1.12443	1057.708	1189.084
1.07722	0.86132	1.07722	111.0052	125.7828
-1.10419	0.74375	0.90564	207.6584	179.6018
1.93281	2.08E-19	1.93281	984.1856	1904.276
-1.0062	0.9285	0.99384	668.0742	663.5586
-1.02582	0.76819	0.97483	1013.411	987.0332
-1.14349	0.34335	0.87452	320.5913	279.7979
1.07612	0.28836	1.07612	1314.918	1417.321
1.02639	0.66355	1.02639	1832.668	1883.118
-1.01391	0.76664	0.98628	2563.973	2527.888
1.04081	0.81359	1.04081	331.6567	341.1514
1.13661	0.49809	1.13661	239.3559	268.4414
1.09972	0.7858	1.09972	91.21751	99.77591
1.17368	0.19721	1.17368	397.1682	470.5419
-1.01566	0.94624	0.98458	248.2696	246.7307
-1.10747	0.35956	0.90296	525.3513	474.3906
-1.01115	0.91272	0.98897	483.6809	479.9985
-1.31049	0.79678	0.76307	58.99368	42.48114
1.08449	0.68277	1.08449	275.3052	297.5794
-1.01604	0.8154	0.98422	2841.972	2793.086
-1.17805	0.25396	0.84886	664.2833	558.0401
1.11015	0.52314	1.11015	253.293	279.9324

1.0638	0.26441	1.0638	2234.617	2372.061
1.04073	0.59038	1.04073	860.0795	895.7457
1.03923	0.66116	1.03923	565.6409	590.1788
1.04272	0.5747	1.04272	1099.03	1149.37
-1.02056	0.90044	0.97986	380.2175	374.0447
1.09394	0.51115	1.09394	368.6281	398.6509
-1.36291	2.44E-06	0.73373	1531.953	1124.834
1.20384	0.73786	1.20384	68.37574	79.6488
1.06112	0.34521	1.06112	972.7646	1030.605
1.18651	0.06167	1.18651	4326.322	5251.665
1.14299	0.33015	1.14299	423.8415	476.9935
1.23048	0.00227	1.23048	1814.964	2231.633
1.00761	0.90223	1.00761	1533.417	1547.276
1.05608	0.61402	1.05608	3127.403	3460.851
1.27982	0.00333	1.27982	1093.835	1393.977
1.14557	0.46251	1.14557	223.8113	254.6074
1.08558	0.64526	1.08558	256.4482	274.8509
1.30013	0.6265	1.30013	71.87654	94.94325
-1.04181	0.72217	0.95986	497.1819	477.1732
1	1	1	26.04136	19.77538
-1.00017	0.99849	0.99983	850.3223	845.9153
1.22593	0.13835	1.22593	375.3859	457.5663
-1.09856	0.06397	0.91029	4047.783	3701.886
-1.10472	0.56768	0.90521	408.8431	366.8477
-1.09657	0.71082	0.91194	253.9924	237.7322
1.08565	0.24413	1.08565	1643.606	1784.526
-1.10398	0.31441	0.90581	1296.043	1178.608
1.12896	0.70954	1.12896	137.733	154.8198
1.0224	0.68408	1.0224	3296.503	3377.134
-1.04482	0.42442	0.95711	1173.759	1124.03
-1.59104	7.06E-06	0.62852	3567.497	2223.605
-1.02082	0.80951	0.97961	480.4417	470.7005
1.45355	0.00331	1.45355	400.0976	576.9699
-1.07078	0.50273	0.9339	6642.446	6007.499
-1.06668	0.32169	0.93749	846.5582	792.0055
-1.13848	0.14225	0.87837	1115.781	985.8066
-1.22547	0.10701	0.81601	1635.616	1345.813
-1.14877	0.62711	0.87049	223.279	200.0829
1.08566	0.48279	1.08566	325.4807	352.7409
1.33143	0.02187	1.33143	1356.054	1806.683
1.28353	0.70624	1.28353	76.07708	99.37883
1.18434	0.81941	1.18434	63.1731	73.27059
-1.00975	0.87231	0.99035	2516.761	2482.026
-1.02474	0.61381	0.97586	4509.444	4399.86
-1.01486	0.80667	0.98536	15322.61	15022.85
-1.06011	0.74711	0.9433	263.5269	250.3934
-1.21475	0.00074	0.82322	1324.206	1090.676
-1.02697	0.90998	0.97374	181.8258	178.7038
1.01012	0.96819	1.01012	206.3875	208.5295
1.03373	0.95744	1.03373	87.04081	93.64378
-1.10459	0.56574	0.90531	313.4695	283.3008
-1.09313	0.44621	0.9148	594.5493	544.0216

1.07621	0.68387	1.07621	315.7056	344.5253
-1.04313	0.6104	0.95865	1008.84	969.9211
-1.02129	0.66302	0.97915	1378.709	1349.79
-1.12257	0.80343	0.89081	103.4797	93.23134
-1.04221	0.71206	0.9595	419.6168	400.1444
1.02573	0.8765	1.02573	294.7585	298.3077
-1.00607	0.90986	0.99396	2305.828	2291.155
1.09633	0.23918	1.09633	1351.052	1479.979
-1.02804	0.81178	0.97273	423.6498	412.293
-1.15983	0.38222	0.8622	410.056	353.1028
-1.03012	0.40864	0.97076	5673.508	5538.447
1.00902	0.90511	1.00902	2311.303	2350.064
1.0073	0.90023	1.0073	971.8757	979.5742
1.08944	0.24603	1.08944	939.5433	1018.95
1.15921	0.08725	1.15921	762.8579	881.8451
1.01501	0.82229	1.01501	858.1151	872.186
-1.0507	0.61976	0.95175	533.968	511.4811
1.06056	0.60653	1.06056	1647.179	1731.95
1.0629	0.26076	1.0629	1197.82	1272.18
1.01443	0.98259	1.01443	82.76111	87.46861
1.0043	0.98975	1.0043	169.6899	173.8525
-1.09753	0.84949	0.91114	116.1017	104.6593
1.02552	0.62966	1.02552	3115.964	3196.209
-1.05509	0.26225	0.94778	6548.36	6219.528
1.0252	0.83328	1.0252	1685.151	1714.285
1.01139	0.946	1.01139	281.1528	284.3489
1.1405	0.12625	1.1405	554.764	630.6641
1.007	0.89299	1.007	9793.262	9847.162
-1.06002	0.25138	0.94338	6387.981	6016.185
1.07707	0.43383	1.07707	436.6	471.436
1.03375	0.45076	1.03375	3394.465	3508.488
-1.28722	0.00004	0.77687	2269.224	1760.692
-1.13638	0.64825	0.87999	195.1193	178.2004
-1.23986	0.04202	0.80654	880.2889	714.3014
-1.02422	0.80699	0.97636	656.2025	645.1821
1.1011	0.14047	1.1011	1268.194	1393.594
-1.07954	0.36369	0.92632	1325.75	1228.442
-1.01652	0.83519	0.98375	11106.15	10765.27
-1.08162	0.38356	0.92454	578.1362	537.2527
1.00844	0.91213	1.00844	628.5967	632.5156
1.47522	2.15E-11	1.47522	2846.04	4217.187
-1.00366	0.97178	0.99636	678.0369	682.2335
-1.17549	0.24221	0.85071	1562.666	1320.998
-1.27193	0.00102	0.78621	799.8279	629.2636
-1.01506	0.8764	0.98516	856.075	846.6651
-1.05613	0.67912	0.94686	422.885	400.4939
-1.11675	0.26415	0.89545	620.029	557.5518
1.35749	0.0002	1.35749	585.3886	793.0981
1.00753	0.961	1.00753	420.6931	432.1269
-1.0923	0.82466	0.9155	139.2747	127.6677
1.06174	0.5204	1.06174	522.2438	557.5746
1.3719	3.33E-07	1.3719	4679.368	6376.75

-1.80026	0.74281	0.55547	34.13553	21.08368
-1.09898	0.16453	0.90994	7827.208	7147.274
-1.00053	0.99192	0.99947	946.1052	943.2192
-1.12671	0.22103	0.88754	920.9672	825.6325
-1.06855	0.20349	0.93585	2539.716	2377.067
-1.00891	0.93625	0.99117	371.7252	367.1835
1.01273	0.84603	1.01273	3663.523	3679.5
-1.02699	0.71228	0.97372	779.6925	761.0399
-1.00406	0.96727	0.99596	711.9907	703.5
1.00642	0.93246	1.00642	700.4447	707.1858
-1.00395	0.98406	0.99607	278.4795	277.8583
1.06108	0.33663	1.06108	7375.515	7837.467
-1.02574	0.90751	0.97491	265.9131	261.2166
-1.06335	0.86372	0.94043	176.2954	171.9704
1.18834	0.01163	1.18834	729.746	865.066
1.00219	0.97233	1.00219	1304.783	1306.812
1.03277	0.60747	1.03277	2440.292	2527.929
-1.09594	0.85364	0.91246	113.1656	104.0304
-1.0389	0.69268	0.96256	734.9955	712.4369
1.06672	0.43625	1.06672	1964.842	2102.377
1.7722	0.00049	1.7722	740.3456	1287.047
-1.01223	0.90953	0.98791	512.1273	504.3741
1.02619	0.6362	1.02619	5074.754	5248.513
-1.03069	0.71927	0.97022	534.1932	519.0861
-1.00463	0.97695	0.99539	415.1964	424.6973
-1.22668	0.04543	0.81521	703.0216	578.1696
-1.0164	0.74198	0.98386	9413.58	9245.381
-1.00927	0.91595	0.99081	581.4416	573.6078
-1.05389	0.69016	0.94887	525.3409	497.329
-1.01907	0.79791	0.98129	5396.673	5230.727
-1.32111	0.00003	0.75694	4895.905	3662.695
1.0131	0.81111	1.0131	1264.939	1281.573
1.18288	0.00054	1.18288	3935.591	4658.63
-1.02528	0.64026	0.97535	4993.928	4897.222
1.01974	0.83802	1.01974	1149.646	1175.594
-1.03068	0.53954	0.97024	1891.808	1835.001
-1.2588	0.00122	0.7944	7244.051	5670.506
-1.01516	0.98346	0.98507	74.59817	71.09756
1.76527	3.96E-19	1.76527	1511.523	2681.637
-1.63395	1.12E-19	0.61201	21199.37	12915.74
1.22341	0.06118	1.22341	2664.21	3325.542
1.05188	0.51359	1.05188	1074.837	1130.276
-1.0246	0.76663	0.97599	20406.16	19644.88
1.09513	0.36403	1.09513	471.9779	519.3375
-1.04026	0.59888	0.9613	785.1461	757.647
1.12081	0.01637	1.12081	144004.3	160779.3
1.04208	0.6277	1.04208	1540.743	1603.838
-1.06228	0.3199	0.94137	2398.627	2259.375
1.0035	0.94437	1.0035	2528.696	2537.433
-1.54226	0.03326	0.6484	335.8217	222.7877
-1.10267	0.64898	0.90689	367.0585	319.5921
-1.00087	0.98557	0.99913	2004.925	2003.012

-1.02499	0.88642	0.97562	351.9476	344.752
1.3463	8.06E-08	1.3463	1829.517	2457.73
1.07063	0.46323	1.07063	1104.167	1178.637
-1.04684	0.58858	0.95526	1186.873	1140.265
-1.09876	0.39571	0.91011	566.7855	516.4182
1.09623	0.53902	1.09623	247.0452	269.6834
1.15555	0.24194	1.15555	410.0283	476.0607
1.08873	0.29552	1.08873	8675.357	9659.902
-1.03839	0.47459	0.96303	3182.105	3062.682
1.05228	0.22969	1.05228	10096.99	10616.37
1.12967	0.32741	1.12967	726.8604	810.058
-1.0877	0.22147	0.91937	1022.306	935.9092
-1.11821	0.60793	0.89429	273.3735	250.089
-1.09539	0.17207	0.91292	1271.914	1161.783
-1.05519	0.43782	0.9477	2566.621	2436.735
-1.50207	1.41E-06	0.66575	7105.051	4668.656
-1.0919	0.85404	0.91583	117.496	110.25
-1.00836	0.92758	0.99171	932.5237	930.3795
-1.11789	0.19541	0.89454	5165.692	4521.628
-1.48819	1.98E-09	0.67196	2291.229	1532.88
-1.04966	0.70599	0.95269	888.4486	856.7703
-1.09305	0.31167	0.91487	1022.792	939.5368
-1.11593	0.47349	0.89611	425.5716	380.3456
-1.02947	0.69262	0.97137	1527.042	1484.084
1.03778	0.45853	1.03778	2195.021	2277.307
-1.08776	0.43827	0.91932	848.3861	781.3167
-1.41654	0.01706	0.70595	1703.31	1177.288
1.20148	0.24144	1.20148	285.0964	338.7565
1.12869	0.41489	1.12869	293.9547	333.7054
-1.13967	0.94285	0.87745	26.63364	21.87888
1.04837	0.37662	1.04837	3027	3182.008
1.0201	0.71522	1.0201	4497.962	4608.667
1.00686	0.91323	1.00686	978.2699	982.7878
1.0666	0.9708	1.0666	26.08949	26.11671
1.06626	0.43272	1.06626	756.4633	802.1785
-1.07975	0.43576	0.92614	7905.591	7495.621
1.03377	0.46016	1.03377	2819.269	2914.83
1.01001	0.90348	1.01001	680.3865	690.3729
1.02752	0.80163	1.02752	430.174	443.5968
-1.05072	0.64274	0.95173	4675.781	4530.892
1.0187	0.79644	1.0187	6952.804	7074.258
-1.10443	0.78862	0.90544	156.8917	138.7047
-1.46269	3.31E-18	0.68367	27107.95	18555.86
1.01783	0.85888	1.01783	1007.661	1027.409
1.08192	0.30182	1.08192	6011.718	6603.319
1.43002	0.00026	1.43002	1155.241	1652.203
-1.0249	0.98494	0.97571	27.68176	27.05344
1.01432	0.84926	1.01432	1733.01	1756.295
-1.00983	0.83892	0.99027	3998.198	3956.084
-1.02312	0.79653	0.9774	685.7161	672.9813
-1.01078	0.92196	0.98934	361.5033	357.066
-1.18391	0.00009	0.84466	4138.136	3494.351

1.00157	0.99155	1.00157	312.1691	315.0308
1.0182	0.79482	1.0182	1074.886	1092.125
1.03036	0.91186	1.03036	202.0611	210.5936
1.11384	0.0395	1.11384	5618.005	6229.618
-1.08825	0.37897	0.91891	11564.24	10340.37
-1.04552	0.80749	0.95646	275.1785	266.2795
1.11358	0.01577	1.11358	3812.232	4241.861
-1.03307	0.59819	0.96799	2628.978	2535.916
-1.09841	0.20753	0.91041	5845.845	5295.807
1.1214	0.59748	1.1214	272.4901	303.4397
-1.05674	0.36858	0.94631	7125.811	6786.072
-1.43605	1.55E-10	0.69636	3646.305	2527.115
-1.20381	0.48545	0.83069	203.3445	173.3973
-1.05869	0.47056	0.94457	2092.002	1966.958
1.04088	0.49784	1.04088	1074.059	1117.038
-1.02901	0.91809	0.97181	198.0464	191.1579
-1.10696	0.82441	0.90338	129.2644	113.2791
-1.21789	0.10077	0.82109	531.9275	437.3124
1.02986	0.76494	1.02986	3519.595	3617.929
1.0491	0.59155	1.0491	649.0535	678.6172
1.00865	0.93683	1.00865	333.9993	337.1676
1.06867	0.57947	1.06867	355.5866	379.1953
-1.06031	0.26501	0.94312	2455.948	2320.249
1.15785	0.01379	1.15785	1145.952	1326.958
-1.06068	0.38482	0.94279	1432.735	1341.834
1.01162	0.94742	1.01162	295.1581	298.9963
1.08493	0.57648	1.08493	372.812	401.8155
1.09111	0.73156	1.09111	227.4484	251.4471
1.40614	1.38E-07	1.40614	6192.34	8757.348
1.11379	0.28208	1.11379	4793.414	5217.366
1.14487	0.34932	1.14487	340.6899	388.6132
-1.01998	0.83849	0.98041	897.7638	883.0784
-1.03939	0.83398	0.9621	240.9778	231.891
1.25749	0.00069	1.25749	5550.093	7046.762
1.04065	0.9598	1.04065	63.57575	67.83448
-1.02088	0.67339	0.97955	5574.192	5462.483
-1.08519	0.7154	0.9215	254.1161	234.5771
1.00635	0.93722	1.00635	7532.547	7405.577
1.18358	0.61809	1.18358	104.8932	122.4648
-1.05434	0.66756	0.94846	321.5747	304.6379
-1.07087	0.81702	0.93382	157.5022	147.114
1.01802	0.84473	1.01802	519.6754	527.1694
-1.18239	0.82779	0.84574	76.60979	64.4923
1.24731	0.00945	1.24731	2439.006	3110.855
1.05253	0.3668	1.05253	15039.54	15750.32
-1.10944	0.29638	0.90136	673.9196	611.6959
1.5305	0.01082	1.5305	338.0618	533.4303
1.03518	0.51726	1.03518	2035.523	2107.857
1.07807	0.73161	1.07807	221.5863	238.6404
1.11227	0.0784	1.11227	4711.724	5271.975
1.12331	0.16573	1.12331	676.3364	757.101
-1.05297	0.81348	0.94969	305.2443	295.308

1.06734	0.70127	1.06734	267.0361	288.877
-1.11094	0.72936	0.90014	212.8764	183.4998
-1.11608	0.03582	0.896	1465.078	1311.49
1.06231	0.41077	1.06231	587.2277	624.9934
1.09037	0.31907	1.09037	1224.804	1332.179
1.05801	0.49066	1.05801	1054.191	1115.531
1.09159	0.61952	1.09159	235.0046	258.0356
1.12721	0.71044	1.12721	135.5409	152.9395
1.01906	0.9216	1.01906	218.9164	223.5263
-1.03248	0.57107	0.96855	5715.511	5532.432
1.0086	0.93344	1.0086	560.9519	569.3619
1.36805	0.41073	1.36805	103.3055	143.4655
1.10101	0.16943	1.10101	687.4285	755.9753
-1.15727	0.40223	0.8641	413.2862	354.5088
-1.01848	0.764	0.98186	3295.655	3244.229
1.0637	0.57169	1.0637	479.3713	507.5322
1.01603	0.94708	1.01603	208.4334	215.0515
1.08022	0.3616	1.08022	492.8903	533.411
1.14542	0.12564	1.14542	1212.148	1388.303
-1.21879	0.08122	0.82049	763.27	633.0852
1.04248	0.46297	1.04248	5954.085	6276.94
-1.05494	0.3952	0.94792	3283.894	3108.943
1.09811	0.16116	1.09811	1558.741	1709.9
-1.16455	0.33216	0.8587	566.6696	480.4587
-1.05213	0.71487	0.95046	438.257	415.8232
-1.27974	0.0317	0.78141	1875.625	1445.684
-1.11013	0.14522	0.90079	9499.546	8464.346
-1.28485	0.14763	0.7783	455.8881	361.7077
1.23777	0.00555	1.23777	2095.292	2578.828
-1.06491	0.55685	0.93905	551.1199	522.1339
1.07289	0.91242	1.07289	78.49702	84.32196
-1.06855	0.46299	0.93585	1463.167	1367.259
-1.43098	0.00007	0.69882	1896.211	1316.298
-1.00478	0.94006	0.99524	1487.899	1483.249
1.00897	0.87437	1.00897	3837.269	3876.967
-1.12093	0.20624	0.89212	3217.382	2791.823
-1.05934	0.7044	0.94398	2216.819	2043.435
1.03534	0.72855	1.03534	633.4287	655.1887
1.22245	0.0015	1.22245	792.7612	968.2373
-1.10194	0.84574	0.90749	124.934	108.8567
1.00175	0.97634	1.00175	2013.577	2020.141
-1.14351	0.74729	0.8745	115.082	98.85197
1.05278	0.61272	1.05278	453.243	479.4547
1.00893	0.92103	1.00893	1353.957	1366.478
1.03695	0.53969	1.03695	7702.288	7966.263
1.09726	0.08348	1.09726	3054.432	3364.527
-1.01604	0.76459	0.98421	2029.53	1997.922
-1.09008	0.41039	0.91736	977.83	892.6599
1.01316	0.80154	1.01316	1647.157	1668.637
-1.07157	0.87892	0.93321	118.5346	109.1728
-1.13865	0.14851	0.87823	1183.151	1046.542
-1.54108	0.02153	0.6489	1896.615	1186.922

1.24032	0.00606	1.24032	4885.633	6093.952
-1.0389	0.75977	0.96255	374.0002	361.0784
-1.13572	0.31316	0.8805	1479.244	1293.031
1.16741	0.17328	1.16741	319.7016	372.1471
1.13519	0.83061	1.13519	73.63649	80.31536
-1.01939	0.85381	0.98097	483.4153	476.3076
1.03749	0.58217	1.03749	1684.679	1747.799
-1.03694	0.48586	0.96437	2067.136	1993.729
1	1	1	24.15649	21.79602
1.0462	0.74784	1.0462	511.1623	523.5225
1.02116	0.88848	1.02116	482.3701	480.0869
-1.0448	0.90532	0.95712	163.4358	151.8339
1.40696	0.07557	1.40696	462.0327	648.2755
1.37527	0.00003	1.37527	3177.75	4293.951
-1.11487	0.27024	0.89697	2957.543	2608.498
1.1861	0.24884	1.1861	642.1348	745.169
-1.09679	0.32045	0.91175	1628.524	1494.415
1.17627	0.69361	1.17627	93.15028	107.2231
1.14661	0.16662	1.14661	580.0933	659.9992
1.14937	0.0201	1.14937	1336.797	1536.12
1.0554	0.56237	1.0554	592.6927	622.1401
-1.0653	0.88123	0.9387	134.1483	128.458
-1.1021	0.04239	0.90736	5168.475	4674.989
-1.15763	0.73871	0.86384	137.6846	123.8191
1.05659	0.46686	1.05659	999.0844	1053.3
-1.10088	0.40635	0.90836	753.8258	676.4548
-1.02321	0.73436	0.97731	2352.159	2305.844
1.00563	0.93822	1.00563	3883.575	3862.844
-1.09486	0.59659	0.91336	355.0453	323.5153
1.61249	0.507	1.61249	51.65894	75.86628
1.01882	0.7926	1.01882	975.9126	991.8442
-1.07801	0.73415	0.92763	202.9982	188.6168
-1.13003	0.4109	0.88494	509.9691	462.5697
1.09977	0.04973	1.09977	2444.842	2687.209
1.28131	0.00003	1.28131	5551.4	7138.453
-1.21649	0.31447	0.82204	352.9535	291.885
1.02194	0.9694	1.02194	72.1608	73.8153
-1.00539	0.93637	0.99464	883.1195	881.0292
1.12087	0.20971	1.12087	516.8775	578.9954
-1.01257	0.89388	0.98759	875.0265	857.4993
1.04233	0.42714	1.04233	2446.802	2545.505
-1.01971	0.68343	0.98067	1709.021	1677.464
-1.50838	1.76E-08	0.66296	3114.3	2045.768
1.11927	0.28204	1.11927	963.9037	1077.726
1.01045	0.88749	1.01045	660.7946	668.7763
-1.88299	0.26482	0.53107	138.1369	71.52105
1.04479	0.66166	1.04479	934.5546	967.3226
-1.01497	0.87921	0.98526	914.0075	903.78
1.22179	1.13E-06	1.22179	12870.37	15730.1
-1.08183	0.26348	0.92436	1043.651	969.2288
1.08047	0.6604	1.08047	347.6938	373.4263
-1.03616	0.64087	0.9651	1788.326	1710.988

-1.07313	0.69133	0.93186	278.8223	263.8794
1.19839	0.83519	1.19839	50.80767	60.49068
1.44605	0.00031	1.44605	418.0876	600.6141
1.31563	0.01632	1.31563	1002.996	1318.05
-1.01593	0.78642	0.98432	1487.666	1465.724
1.01457	0.73672	1.01457	4240.052	4302.134
-1.00996	0.95664	0.99014	322.3629	320.8217
1.06759	0.30249	1.06759	1571.889	1680.639
-1.22215	0.49485	0.81823	179.5295	151.0776
-1.11757	0.2534	0.8948	1843.3	1654.598
1.0901	0.55589	1.0901	354.3054	382.0107
-2.1176	0.00181	0.47223	1148.673	549.766
-1.05689	0.63301	0.94617	425.6834	405.8346
-1.05206	0.60372	0.95052	796.0356	762.2968
-1.06993	0.40835	0.93464	1845.031	1727.563
1.03717	0.86353	1.03717	162.7429	168.8022
1.01228	0.88553	1.01228	655.3717	666.2077
1.08707	0.57905	1.08707	315.0477	341.1775
1.02089	0.93147	1.02089	174.9325	181.4338
-1.09907	0.34922	0.90986	625.8146	571.9558
-1.21923	0.77296	0.82019	87.93037	71.57568
1.01873	0.7097	1.01873	1692.752	1724.147
-1.08915	0.61749	0.91815	416.238	378.6563
-1.091	0.30478	0.91659	702.4005	647.1113
-1.12906	0.17759	0.88569	1360.707	1202.781
1.03664	0.76199	1.03664	361.5861	374.0094
1.02966	0.69973	1.02966	964.3672	990.3561
1.11912	0.19396	1.11912	527.5157	588.0792
-1.31977	0.26346	0.75771	243.9975	190.8412
-1.34831	0.00729	0.74167	1663.722	1256.136
1.0783	0.27422	1.0783	3456.054	3710.287
1.08007	0.33439	1.08007	829.6129	892.541
1.00107	0.99077	1.00107	761.1498	767.6924
1.04442	0.75776	1.04442	878.47	899.7455
1.10189	0.80054	1.10189	143.0495	163.9055
1.07597	0.4685	1.07597	1284.156	1392.161
1.09957	0.10102	1.09957	4865.171	5309.142
-1.05361	0.49613	0.94912	584.5026	555.754
1.01777	0.91736	1.01777	267.7389	271.4655
1.43524	0.32058	1.43524	90.08541	127.181
1.13616	0.29473	1.13616	597.9479	670.8206
-1.00424	0.9603	0.99578	955.1407	955.5287
1.0697	0.37921	1.0697	1229.364	1312.917
-1.10711	0.38214	0.90325	370.1514	335.9658
-1.00234	0.96564	0.99766	1887.571	1883.621
-1.63346	0.00011	0.6122	1842.337	1120.033
1.01515	0.80789	1.01515	6615.056	6737.493
1.23896	0.78426	1.23896	58.66257	71.83134
-1.00147	0.9788	0.99853	1457.54	1456.873
1.43115	1.83E-10	1.43115	1602.489	2292.054
1.02629	0.82791	1.02629	682.2893	691.5597
-1.05371	0.61772	0.94903	513.2022	483.9527

-1.48072	0.05393	0.67535	1327.667	897.725
1.03019	0.60697	1.03019	1545.702	1592.894
-1.03817	0.46456	0.96324	2333.295	2249.003
-1.04663	0.51653	0.95545	1102.793	1056.585
-1.05357	0.45706	0.94915	714.2828	676.2808
1.03391	0.61587	1.03391	851.065	882.6028
-1.12297	0.15896	0.8905	3946.354	3455.373
1.19448	0.6658	1.19448	91.10281	108.7502
1.00597	0.93785	1.00597	921.3206	923.9638
-1.22513	0.00027	0.81624	10444.6	8447.271
1.02207	0.75824	1.02207	2014.939	2064.299
-1.01653	0.80592	0.98374	760.3705	749.5269
-1.0095	0.86367	0.99059	5568.477	5515.605
-1.18951	0.02781	0.84069	594.6158	500.4255
1.06799	0.24984	1.06799	14159.72	15281.19
1.12588	0.00581	1.12588	4400.224	4952.451
1.02071	0.78946	1.02071	748.9126	762.5225
-1.01262	0.85363	0.98754	1333.848	1312.023
-1.65214	0.00002	0.60528	5154.105	2977.762
1.15002	0.08548	1.15002	4164.268	4911.022
1.08177	0.43036	1.08177	417.2741	450.5849
-1.04332	0.74079	0.95848	723.4684	701.2795
1.16866	0.34951	1.16866	237.8164	277.344
1.02163	0.70561	1.02163	3395.423	3467.472
-1.05051	0.67293	0.95192	760.5332	728.7915
1.08224	0.63339	1.08224	247.7629	265.5947
1.01177	0.876	1.01177	1772.221	1784.856
1.13174	0.22085	1.13174	434.25	488.7863
1.00346	0.98826	1.00346	258.9097	264.0801
-1.42105	0.00009	0.7037	3628.929	2583.983
-1.01625	0.95738	0.98401	118.8418	116.4424
-1.02351	0.74173	0.97703	13055.12	12827.29
1.02181	0.98301	1.02181	47.79979	48.87206
1.06195	0.22068	1.06195	5745.021	6079.235
1.06789	0.77039	1.06789	151.9202	161.4928
-1.08049	0.36746	0.92551	3166.219	2890.909
-1.08079	0.57377	0.92525	285.6461	265.2327
1.02414	0.74807	1.02414	3228.105	3323.771
1.11206	0.07558	1.11206	5559.794	6119.266
-1.06254	0.59572	0.94114	543.9805	515.9833
1.71961	1.34E-08	1.71961	12303.06	20705.69
-1.03695	0.7956	0.96437	514.3082	498.9167
1.06944	0.35704	1.06944	10269.09	11002.36
1.02152	0.73399	1.02152	2259.05	2314.444
-1.00685	0.95705	0.9932	682.0693	688.1223
-1.06212	0.82736	0.94151	202.8403	189.7654
-1.0007	0.99497	0.9993	965.5176	979.6814
1.03278	0.69422	1.03278	1973.178	2039.056
-1.01946	0.86866	0.98091	830.8424	824.7173
-1.00629	0.96395	0.99375	361.211	360.9896
1.55979	0.00016	1.55979	1627.103	2540.951
1.0601	0.31829	1.0601	1405.823	1490.877

-1.05092	0.42048	0.95154	1273.368	1211.418
1.01217	0.81343	1.01217	1317.755	1334.731
1.00625	0.94179	1.00625	685.6769	693.3485
1.05165	0.61009	1.05165	1354.008	1425.408
1.09415	0.1589	1.09415	2101.409	2289.804
-1.07014	0.79582	0.93445	225.4904	207.4053
-1.41275	3.15E-06	0.70784	4568.076	3199.163
-1.10235	0.67065	0.90715	246.4351	224.9003
-1.02346	0.83428	0.97708	678.0179	663.0243
1.09676	0.4127	1.09676	746.9408	827.6493
1.13712	0.52447	1.13712	149.2825	169.9411
1.11078	0.02253	1.11078	26577.74	29463.21
-1.19141	0.04754	0.83934	2013.116	1707.53
1.04207	0.65185	1.04207	475.467	494.6587
1.01382	0.76976	1.01382	2328.294	2360.831
1.06945	0.24227	1.06945	932.6267	998.3182
-1.05565	0.57895	0.94729	427.5335	403.8401
1.04853	0.54237	1.04853	1677.673	1756.511
1.05773	0.53238	1.05773	694.9611	731.3523
-1.17991	0.87939	0.84752	45.97147	37.09185
-1.14274	0.4501	0.87509	455.3879	396.863
-1.01695	0.84236	0.98333	698.5894	686.8702
1.03969	0.90176	1.03969	155.0325	162.058
-1.13816	0.06264	0.87861	1449.447	1273.443
-1.00297	0.99181	0.99703	112.944	112.5384
1.24805	0.66546	1.24805	76.92996	97.85168
1.09996	0.431	1.09996	345.6826	380.4674
-1.24219	0.06847	0.80503	1422.57	1141.594
1.02362	0.72128	1.02362	810.8789	830.3563
1.12058	0.26385	1.12058	10545.96	12156.58
-1.164	0.27192	0.85911	576.6846	494.0334
1.08442	0.67206	1.08442	179.58	194.7791
1.00288	0.96902	1.00288	620.5349	622.4896
1.15399	0.20278	1.15399	309.8244	358.3772
-1.0058	0.95224	0.99424	503.7276	502.9479
-1.15876	0.13354	0.86299	629.6398	545.2241
1.1573	0.1021	1.1573	2017.053	2323.429
1.13421	0.51236	1.13421	171.6323	194.6946
-1.05831	0.88983	0.9449	140.4874	136.0206
-1.16756	0.71651	0.85649	146.5176	120.0401
1.08734	0.4525	1.08734	566.5286	610.979
-1.04534	0.77706	0.95663	346.472	336.8546
1.01086	0.8301	1.01086	2576.703	2604.773
-1.02176	0.82643	0.9787	1036.481	1009.698
-1.01003	0.86822	0.99007	2125.937	2112.363
1.04224	0.30765	1.04224	89897.28	93751.41
1.06602	0.2946	1.06602	1724.081	1833.019
-1.01948	0.70314	0.9809	6412.635	6299.154
1.0224	0.7223	1.0224	2229.375	2293.32
-1.00439	0.94674	0.99563	814.4097	810.2814
1.04686	0.56237	1.04686	1038.235	1090.467
1.7305	0.14224	1.7305	105.8623	195.8439

1.01799	0.77539	1.01799	1038.102	1054.886
1.03445	0.70756	1.03445	8736.344	9006.327
1.01522	0.84571	1.01522	866.5479	878.7454
1.05676	0.45665	1.05676	9930.807	10357.34
1.00321	0.9831	1.00321	346.0378	345.7546
1.00462	0.96251	1.00462	2730.098	2725.95
1.16541	0.56172	1.16541	171.041	194.8331
-1.01229	0.95665	0.98786	189.5463	184.7231
-1.03176	0.7829	0.96922	945.7404	930.1578
1.27192	0.05699	1.27192	567.4342	712.1436
-1.00573	0.93621	0.9943	1120.684	1115.222
1.04576	0.36186	1.04576	1728.615	1806.967
1.04111	0.56038	1.04111	1468.724	1529.629
-1.02751	0.81998	0.97323	422.559	411.2358
1.34655	0.03096	1.34655	394.6512	522.5709
-1.09533	0.8418	0.91296	127.6164	114.6193
-1.00184	0.9778	0.99817	3621.776	3637.625
-1.00155	0.97669	0.99846	1119.942	1118.594
1.13406	0.12226	1.13406	7895.292	8775.901
1.0091	0.86792	1.0091	1997.404	2016.457
1.067	0.26082	1.067	2712.621	2904.579
-1.21236	0.01178	0.82484	3547.466	2974.552
1.12815	0.16538	1.12815	1042.294	1169.325
-1.1469	0.15644	0.87192	2968.738	2579.392
-1.02695	0.96794	0.97375	82.18681	80.23523
-1.10196	0.4496	0.90747	621.7757	573.3948
-1.06655	0.72211	0.9376	341.7573	320.9742
-1.0421	0.76802	0.9596	463.9565	446.5045
-1.00655	0.95399	0.9935	620.4313	616.0372
-1.03438	0.60595	0.96676	1512.824	1459.917
1.00117	0.98738	1.00117	2791.944	2806.68
-1.10404	0.55398	0.90576	573.7237	535.5963
1.15351	0.00263	1.15351	4841.088	5573.078
-1.02553	0.80552	0.9751	629.584	619.3965
1.06895	0.34412	1.06895	965.8284	1035.21
-1.03488	0.52997	0.9663	1349.298	1301.971
2.24033	0.03911	2.24033	202.2739	428.3085
-1.0611	0.30314	0.94242	3730.233	3525.141
1.17888	0.54383	1.17888	209.4098	250.129
-1.05638	0.55112	0.94663	3009.102	2804.948
1.03779	0.73976	1.03779	413.0073	431.5472
1.07048	0.23244	1.07048	2366.686	2540.034
1.53327	0.00145	1.53327	922.8889	1412.176
-1.00464	0.9823	0.99538	284.6604	280.7733
1.00578	0.95221	1.00578	3549.353	3607.368
-1.00357	0.96004	0.99644	2313.914	2325.183
-1.10752	0.4913	0.90292	567.1414	507.2794
-1.0033	0.98679	0.99671	300.0877	299.7563
1.10607	0.77815	1.10607	116.4127	125.4501
2.76765	7.85E-44	2.76765	14710.26	41382.3
-1.01625	0.9626	0.98401	163.4163	162.0981
1.24598	1.39E-06	1.24598	14104.35	17618.04

-1.02519	0.67567	0.97543	2215.944	2151.956
-1.0627	0.27339	0.941	1795.606	1691.625
1.01036	0.88989	1.01036	856.0313	867.5114
-1.08193	0.66659	0.92427	361.4432	345.0545
1.13591	0.11934	1.13591	3717.047	4265.526
1.02026	0.79243	1.02026	799.9298	818.703
1.07946	0.60895	1.07946	451.8051	485.8039
-1.35528	0.7939	0.73785	52.35956	36.67067
-1.12642	0.89523	0.88777	61.42955	53.87816
1.1251	0.68847	1.1251	213.9131	247.8621
1.06467	0.15045	1.06467	8508.41	9071.36
1.40831	8.02E-13	1.40831	4313.099	6092.973
-1.01766	0.83168	0.98265	1317.149	1292.203
-1.04095	0.54657	0.96066	2791.042	2650.224
1.00477	0.96083	1.00477	505.3333	510.3778
-1.15469	0.48822	0.86604	395.7537	340.4636
1.18565	0.06898	1.18565	1130.475	1339.99
1.12613	0.21336	1.12613	813.7761	922.3977
-1.03741	0.60288	0.96393	2860.943	2793.729
-1.00074	0.98823	0.99926	1255.235	1255.167
-1.03829	0.67899	0.96312	290501.2	275636.3
-1.06923	0.20836	0.93526	1638.301	1528.776
-1.0697	0.59134	0.93484	662.4544	626.9403
-1.07177	0.42869	0.93304	569.1317	533.3054
-1.01055	0.91882	0.98956	566.3865	564.5852
-1.10122	0.90713	0.90809	66.79577	62.56768
-1.08365	0.7725	0.92281	211.2372	195.7963
1.2434	0.00001	1.2434	2048.709	2549.83
1.01579	0.84239	1.01579	940.7695	949.6929
-1.06146	0.48923	0.9421	1150.597	1072.622
-1.00497	0.91115	0.99505	3882.18	3863.337
-1.0695	0.73067	0.93501	328.2607	304.8293
-1.09821	0.16863	0.91057	1531.565	1391.347
-1.02287	0.64501	0.97765	2572.209	2516.323
-1.11485	0.70605	0.89698	213.6509	185.9925
-1.26779	1.25E-06	0.78877	6614.735	5241.489
1.34783	0.0002	1.34783	18938.13	25076.73
1.20255	0.35546	1.20255	308.5215	357.4698
1.04311	0.63927	1.04311	414.8162	432.6295
-1.60534	3.57E-06	0.62292	6144.506	3711.874
-1.01532	0.81353	0.98491	2510.178	2477.529
-1.01921	0.729	0.98115	3090.776	3037.009
1.03701	0.57546	1.03701	1443.298	1498.866
-1.00905	0.92259	0.99103	7107.158	6941.011
-2.10054	7.58E-26	0.47607	3038.296	1435.214
-1.04437	0.54157	0.95751	1413.031	1353.7
1.02824	0.61064	1.02824	1205.223	1237.263
-1.17173	0.75125	0.85344	123.0727	109.3949
1.00783	0.90388	1.00783	1073.735	1079.532
1.31251	0.16145	1.31251	5957.26	8141.86
1.07377	0.53515	1.07377	538.6118	571.7393
1.02509	0.70192	1.02509	5390.747	5524.828

-1.21311	0.09133	0.82433	1736.728	1428.151
-1.02519	0.72836	0.97542	1622.426	1578.755
1.06964	0.34899	1.06964	927.6982	994.2752
1.00983	0.95071	1.00983	462.7962	481.1261
1.23538	0.00465	1.23538	1354.439	1676.834
1.09369	0.8093	1.09369	118.5541	132.4946
1.20458	0.03158	1.20458	8287.399	10142.15
-1.64526	0.00599	0.60781	295.6563	181.1257
-1.03925	0.81373	0.96223	399.8909	386.6089
1.02207	0.76155	1.02207	2637.097	2697.586
1.06013	0.47423	1.06013	858.4418	906.1589
-1.06228	0.60542	0.94137	733.3876	689.9778
-1.44634	0.13251	0.6914	185.4497	129.102
1	1	1	1950.572	1952.073
-1.00949	0.91017	0.9906	633.306	626.1845
1.2585	0.00029	1.2585	1307.278	1647.72
1.0352	0.53593	1.0352	5856.516	6093.861
1.06224	0.52321	1.06224	9764.186	10071.1
-1.01068	0.92259	0.98943	493.2261	491.9349
-1.06251	0.87503	0.94117	153.4633	148.8039
1.00167	0.98068	1.00167	4106.706	4152.472
1.0237	0.81879	1.0237	6048.305	6053.983
-1.01237	0.96652	0.98778	168.6693	161.6826
1.12253	0.72572	1.12253	138.0701	155.7867
-1.00722	0.98395	0.99283	125.5732	124.9283
1.02181	0.738	1.02181	5143.859	5284.99
1.0088	0.93345	1.0088	452.7117	457.843
1.00116	0.98633	1.00116	2435.935	2431.802
-1.00727	0.95935	0.99278	394.0235	397.0325
-1.04542	0.61064	0.95655	1461.363	1408.28
-1.38883	2.01E-06	0.72003	22696.02	16557.29
-1.04818	0.89184	0.95404	142.986	137.1075
-1.0553	0.77936	0.9476	287.7268	271.5812
-1.09183	0.09159	0.91589	1260.167	1154.062
-1.08507	0.84243	0.9216	143.4895	136.2929
1.06995	0.34973	1.06995	1155.022	1237.735
-1.00374	0.95884	0.99628	1207.695	1199.624
1.01816	0.87162	1.01816	821.6832	825.5366
-1.43586	0.00647	0.69645	946.7379	667.413
-1.15747	0.10169	0.86395	1419.862	1232.385
1.16911	0.23705	1.16911	602.1482	716.6505
1.0225	0.78096	1.0225	946.3206	965.5269
1.21287	0.541	1.21287	121.8456	150.5919
-1.15246	0.13484	0.86771	1335.393	1172.433
1.00027	0.99777	1.00027	687.329	683.6258
1.06173	0.71573	1.06173	300.3333	315.8427
1.28312	0.01056	1.28312	4566.923	5980.659
1.68655	0.03053	1.68655	280.7409	449.1499
1.71463	0.11112	1.71463	79.60546	135.8166
-1.00568	0.91414	0.99435	1648.624	1639.523
-1.06379	0.38343	0.94003	6492.488	6032.623
-1.95621	0.10144	0.51119	143.2586	74.59589

-1.1164	0.13724	0.89573	5031.164	4423.553
-1.00005	0.99985	0.99995	196.0539	196.8313
1.01301	0.8918	1.01301	613.015	625.5215
1.11711	0.24256	1.11711	1280.907	1424.724
-1.10607	0.65546	0.9041	277.7268	252.7384
1.06181	0.46037	1.06181	748.0796	798.1339
-1.10006	0.71591	0.90904	237.1574	220.3994
1.02229	0.73193	1.02229	13907.87	14047.36
1.06975	0.72536	1.06975	334.7634	372.309
-1.05425	0.59463	0.94854	802.0827	754.493
-1.03344	0.57937	0.96764	1242.779	1199.399
1.10148	0.47543	1.10148	350.3195	382.0388
-1.03275	0.45572	0.96829	7533.475	7302.461
-1.07902	0.14955	0.92677	3694.801	3436.239
-1.25515	0.09749	0.79672	609.6311	494.5626
-1.10346	0.74939	0.90624	183.3805	167.1541
1.16218	0.3617	1.16218	335.6407	391.553
1.01074	0.81578	1.01074	2022.289	2044.722
-1.0571	0.36368	0.94598	1367.273	1297.708
1.57873	6.64E-26	1.57873	52149.73	82415.17
-1.09674	0.29712	0.91179	3592.375	3259.975
-1.02314	0.76611	0.97739	1947.627	1908.605
1.01224	0.99042	1.01224	39.75442	38.96997
-1.02322	0.69443	0.97731	2366.562	2313.688
1.04618	0.58229	1.04618	633.4564	660.8596
1.13121	0.04307	1.13121	979.0895	1109.848
-1.38295	1.31E-14	0.72309	10165.91	7348.292
1.14269	0.03683	1.14269	3117.335	3576.908
1.01626	0.80826	1.01626	4484.282	4569.933
-1.04206	0.66041	0.95963	4172.418	4055.497
-1.01654	0.92675	0.98373	223.8279	221.9159
1.03645	0.69734	1.03645	980.0747	1010.658
-1.06794	0.71685	0.93638	271.9087	254.8469
-1.14522	0.15593	0.8732	8412.323	7210.757
-1.14818	0.28185	0.87094	584.4058	508.5259
1.22366	0.03382	1.22366	965.247	1181.675
-1.0122	0.88882	0.98795	804.6345	790.5419
1.60445	7.46E-19	1.60445	1073.238	1722.066
-1.08262	0.76323	0.92369	228.3398	212.5387
-1.11963	0.21418	0.89315	1613.663	1444.394
1.07617	0.37598	1.07617	1152.839	1236.319
1.3678	3.59E-06	1.3678	1129.816	1544.992
-1.08712	0.26223	0.91986	17409.43	15803.53
1.16981	0.02007	1.16981	5520.777	6385.171
-1.06673	0.2578	0.93745	16531.86	15385.94
1.06099	0.60944	1.06099	746.0187	782.1942
-1.18944	0.43672	0.84074	292.4423	243.4647
1.03534	0.50788	1.03534	1618.318	1676.194
-1.08162	0.22815	0.92454	2228.404	2071.265
-1.32321	0.12038	0.75574	659.9175	506.8784
-1.26985	5.99E-08	0.7875	3132.006	2466.542
-1.13606	0.39757	0.88023	418.286	367.1471

-1.30989	5.54E-08	0.76342	7685.903	5888.616
1.15464	0.22736	1.15464	1038.826	1186.05
1.00856	0.91896	1.00856	1919.579	1928.733
-1.08509	0.62061	0.92158	439.2036	407.853
1.05043	0.61373	1.05043	1799.337	1882.217
1.12392	0.05188	1.12392	908.2709	1021.106
-1.03203	0.58084	0.96896	4131.051	3991.068
-1.00497	0.95057	0.99506	4977.493	4930.148
-1.30289	4.08E-06	0.76752	8755.518	6772.017
-1.03279	0.54317	0.96825	3562.79	3460.637
-1.09012	0.76216	0.91733	205.5641	187.5004
-1.07901	0.78356	0.92678	158.5498	146.8741
1.04934	0.61824	1.04934	2753.859	2870.356
-1.03022	0.51117	0.97067	62100.2	60464.37
-1.06178	0.88095	0.94182	127.8565	126.8376
-1.0375	0.71555	0.96385	494.6854	479.3442
-1.01749	0.87328	0.98281	455.2592	445.4665
-1.09988	0.05817	0.90919	38580.71	35298.34
1.06644	0.63205	1.06644	693.2061	726.4591
-1.20887	0.31705	0.82722	345.6418	287.149
-1.09803	0.45119	0.91073	642.3743	585.7651
-1.22794	0.04215	0.81437	1761.942	1423.269
1.06104	0.27609	1.06104	15739.04	16713.88
1.06906	0.48388	1.06906	799.7406	849.4197
-1.93735	2.32E-14	0.51617	3902.499	1984.325
-1.032	0.5108	0.969	2364.196	2287.4
-1.03257	0.66673	0.96845	2015.812	1975.255
1.00128	0.98689	1.00128	641.0677	639.5864
-1.07243	0.75048	0.93246	278.8043	260.5051
-1.12497	0.00556	0.88891	4090.395	3635.883
1.05306	0.33699	1.05306	1971.535	2078.709
-1.37597	0.0538	0.72676	3876.028	2889.005
1.05625	0.38881	1.05625	1428.291	1506.584
1.01004	0.94347	1.01004	296.4742	300.139
-1.0106	0.85783	0.98951	3448.154	3432.417
-1.12053	0.27163	0.89243	2870.102	2541.75
-1.04561	0.75246	0.95638	356.7036	343.8978
-1.13689	0.06139	0.87959	2052.539	1802.599
-1.26755	0.04435	0.78893	12207.24	9293.84
-1.11385	0.72098	0.89779	195.6281	173.3254
1.03963	0.61924	1.03963	1311.112	1367.092
-1.08972	0.44584	0.91767	11493.37	10227.87
-1.10829	0.73109	0.90229	184.446	167.9632
-1.02816	0.91926	0.97261	198.988	191.8393
-1.03012	0.52113	0.97076	1687.886	1638.687
-1.28797	2.59E-06	0.77641	4758.696	3673.424
1.02203	0.90015	1.02203	291.7906	295.702
-1.06574	0.95834	0.93831	38.35699	31.97881
1.10629	0.89782	1.10629	65.89679	70.55379
-1.05012	0.6288	0.95227	1296.072	1240.984
1.02972	0.79138	1.02972	465.3733	475.5049
-1.0229	0.84909	0.97762	551.6246	539.8133

1.05039	0.46885	1.05039	16346.03	17352.59
1.09185	0.7926	1.09185	133.2582	141.3295
-1.01703	0.8636	0.98326	717.464	710.3709
-1.00308	0.94927	0.99693	3045.183	3041.474
1.00616	0.96114	1.00616	365.8863	369.7117
1.15755	0.05289	1.15755	1875.151	2157.049
-1.07213	0.86006	0.93272	103.1025	96.20486
1.07174	0.53669	1.07174	954.9908	1018.218
-1.01716	0.93174	0.98313	315.6201	306.9977
-1.14916	0.01974	0.8702	3948.378	3458.436
1.12682	0.21459	1.12682	888.881	995.8271
-1.1156	0.49843	0.89638	516.9802	455.4242
1.14607	0.10294	1.14607	1185.596	1356.349
-1.00735	0.8784	0.9927	2329.332	2311.278
1.17441	0.00209	1.17441	1906.741	2240.35
1.35179	0.16118	1.35179	222.2917	297.5161
1.12959	0.05814	1.12959	2394.869	2708.243
-1.08748	0.88995	0.91956	92.26956	85.84782
-1.03819	0.90544	0.96321	146.9937	140.1783
-1.11346	0.13091	0.8981	1265.857	1143.961
1.29359	0.25009	1.29359	174.3519	223.3727
1.01431	0.96465	1.01431	170.6682	175.0286
-1.01247	0.88198	0.98768	1441.258	1426.808
-1.02681	0.72668	0.97389	6404.597	6172.159
-1.03048	0.74188	0.97042	600.4891	582.8788
-1.00678	0.94909	0.99326	467.426	464.7222
-1.42527	0.01662	0.70162	1752.434	1205.489
1.01709	0.93406	1.01709	249.3779	254.0942
-1.1339	0.34145	0.88191	501.3919	442.1834
-1.04338	0.83785	0.95842	389.1946	382.055
1.27494	0.01833	1.27494	6735.18	8323.123
1.04937	0.87826	1.04937	167.1223	173.4265
-1.01968	0.82184	0.9807	999.6527	971.7874
-1.0244	0.98011	0.97618	56.59283	50.52386
-1.10377	0.43495	0.90599	554.7441	510.2076
1.37113	0.01386	1.37113	334.1102	456.065
-1.01265	0.83579	0.9875	2574.531	2549.902
-1.07648	0.36732	0.92895	798.109	743.3702
-1.07154	0.79744	0.93324	223.7591	211.297
1.01467	0.97013	1.01467	141.3486	146.549
-1.04598	0.61106	0.95604	4553.034	4286.13
-1.08655	0.49731	0.92034	365.0966	337.0809
-1.76999	0.00424	0.56498	1429.733	827.7867
-1.15339	0.61832	0.86701	212.4366	182.444
-1.02247	0.75179	0.97802	1050.603	1028.366
1.0481	0.572	1.0481	695.4489	725.0117
-1.14822	0.01669	0.87091	4322.758	3747.725
1.00599	0.92079	1.00599	2892.824	2920.843
-1.19368	0.00003	0.83774	10339.44	8668.053
-1.06527	0.65972	0.93873	462.9526	435.3299
1.02609	0.8581	1.02609	411.2694	420.9082
1.0549	0.82436	1.0549	214.193	233.5906

1.01062	0.869	1.01062	1443.602	1460.698
-1.07474	0.65667	0.93046	360.1461	334.1221
-1.05896	0.34131	0.94432	796.9276	752.2934
-1.08672	0.51008	0.9202	412.5252	381.7308
-1.0268	0.72063	0.9739	2985.363	2901.572
1.07712	0.38854	1.07712	556.4429	600.8974
1.04424	0.52474	1.04424	1087.76	1133.177
1.02952	0.69165	1.02952	1246.62	1285.231
1.5062	0.06836	1.5062	189.6577	278.3997
-1.02297	0.71616	0.97755	1925.861	1894.704
1.29657	0.01071	1.29657	3258.752	4344.833
1.01572	0.8755	1.01572	1019.586	1027.493
1.28439	0.77536	1.28439	47.14233	58.48274
-1.10122	0.02983	0.90808	2238.244	2031.708
1.01713	0.82152	1.01713	716.4805	729.6598
1.17473	0.13385	1.17473	510.7734	594.6176
-1.01431	0.88433	0.9859	877.432	871.6199
1.87473	4.42E-13	1.87473	2300.865	4373.617
1.20537	0.05493	1.20537	548.8201	657.5784
1.03161	0.72984	1.03161	587.4252	602.666
-1.04192	0.82043	0.95976	303.6575	290.4458
1.05701	0.42646	1.05701	35257.71	38043.35
-1.01697	0.89984	0.98331	324.2754	320.1996
1.01692	0.72254	1.01692	2579.181	2623.307
-1.06838	0.13009	0.936	3951.015	3696.515
1.05368	0.52969	1.05368	1266.118	1333.286
1.02484	0.71392	1.02484	1010.635	1034.053
1.23095	0.00005	1.23095	1396.267	1718.674
-1.20182	0.0442	0.83207	1586.125	1318.652
1.08728	0.24115	1.08728	8431.654	9170.385
1.81249	0.35551	1.81249	82.51948	157.4542
-1.00689	0.95799	0.99316	291.105	290.0669
-1.0351	0.6849	0.96609	2080.886	1997.761
-1.05564	0.32152	0.94729	1046.28	991.4131
-1.03205	0.64662	0.96894	2474.324	2383.213
-1.03798	0.729	0.96341	729.3207	710.7932
-1.04222	0.51672	0.95949	1514.61	1454.279
-1.02526	0.85558	0.97536	377.7732	364.4774
1.04195	0.81829	1.04195	253.0266	265.7112
1.12951	0.28876	1.12951	323.3049	364.7915
1.04621	0.44738	1.04621	860.5176	900.325
1.28705	0.03383	1.28705	349.4257	451.4127
-1.0167	0.84082	0.98357	2053.439	1997.928
-1.02933	0.77093	0.97151	4668.51	4654.107
1.01716	0.78538	1.01716	6033.463	6199.188
1.10734	0.04535	1.10734	1697.34	1878.864
-1.04516	0.68403	0.95679	487.7983	470.0685
1	1	1	24.82467	19.94913
1.01838	0.96416	1.01838	137.8293	137.6955
1.10803	0.38345	1.10803	408.3462	456.4766
-1.19856	0.11484	0.83434	1016.106	853.7445
1.00188	0.96823	1.00188	2172.976	2177.6

1	1	1	25.76144	21.87601
1.07973	0.45137	1.07973	966.6401	1042.27
1.02851	0.9133	1.02851	151.98	156.9869
1.04958	0.39284	1.04958	2220.632	2334.119
1.04126	0.71956	1.04126	971.9323	1000.388
1.06887	0.72927	1.06887	223.9125	242.5874
1.01694	0.8659	1.01694	1174.837	1192.21
-1.08346	0.78109	0.92297	198.696	185.6783
-1.49055	0.00087	0.67089	3256.022	2157.574
-1.15667	0.93768	0.86455	26.38622	19.76632
-1.07574	0.46259	0.92959	599.6522	556.262
1.02496	0.83297	1.02496	445.7219	454.9
1.35452	0.00018	1.35452	3779.197	5060.994
1.02254	0.78801	1.02254	769.0421	789.7593
-1.14761	0.78531	0.87137	109.345	96.74632
1.17703	0.43261	1.17703	204.6135	239.9733
-1.01184	0.89638	0.9883	794.3602	783.1485
-1.02885	0.70223	0.97195	2905.277	2819.787
1.05469	0.42845	1.05469	2047.164	2162.96
1.01353	0.76384	1.01353	1816.11	1840.62
-1.01407	0.78815	0.98612	2118.456	2091.668
-1.18713	0.16645	0.84237	2820.245	2306.862
1.00227	0.9734	1.00227	967.0024	972.0885
1.03146	0.62343	1.03146	1069.469	1102.732
-1.45801	9.55E-08	0.68586	8771.434	5960.62
1.13123	0.65356	1.13123	167.5638	184.8698
-1.03282	0.78417	0.96822	979.1946	956.6663
1.04498	0.42649	1.04498	11046.74	11583.03
-1.07628	0.73951	0.92913	277.8922	259.1751
-3.05788	4.23E-17	0.32702	10961.01	3420.356
1	1	1	22.98494	23.25093
-1.04145	0.56397	0.9602	748.9456	720.6899
-1.02346	0.94522	0.97708	163.9074	162.5895
1.05282	0.54772	1.05282	1004.331	1051.67
1.05618	0.73514	1.05618	286.3387	301.3498
1.02765	0.72237	1.02765	589.7379	606.6242
-1.09054	0.66285	0.91698	345.1407	321.7628
-1.53434	0.01664	0.65175	1340.99	899.043
1.01337	0.8722	1.01337	584.7756	590.6179
-1.03709	0.70721	0.96424	1004.376	978.686
-1.06118	0.5531	0.94235	484.329	458.0668
1.09339	0.23746	1.09339	712.2138	776.1138
1.00416	0.95335	1.00416	1805.249	1809.261
-1.15875	0.11216	0.863	1125.202	981.5676
1.03798	0.88607	1.03798	205.394	211.6548
-1.04551	0.62035	0.95647	801.3029	763.8589
-1.08351	0.17564	0.92292	11448.41	10525.9
1.20265	0.17314	1.20265	350.8444	421.8915
-1.00328	0.96785	0.99673	1260.69	1256.023
-1.0296	0.67066	0.97125	4005.134	3802.3
1.41751	0.00643	1.41751	537.4867	750.6846
-1.08084	0.32538	0.92521	2017.1	1864.827

1.01573	0.91507	1.01573	356.7819	362.8532
-1.0439	0.88498	0.95795	198.1883	187.1583
1.03024	0.90094	1.03024	170.4687	175.6046
1.03734	0.86918	1.03734	273.7455	288.855
-1.06776	0.58558	0.93654	8878.481	8601.078
1.11526	0.55721	1.11526	200.2765	222.2895
-1.05012	0.86468	0.95227	203.0266	192.6447
-1.03396	0.54038	0.96715	2988.315	2890.972
-1.16051	0.31488	0.86169	578.0962	502.2897
-1.06735	0.52848	0.9369	1388.797	1297.765
1.02567	0.80587	1.02567	486.2526	495.343
-1.05005	0.51948	0.95234	3546.352	3345.575
1.01056	0.82031	1.01056	11965.28	12092.65
1.01683	0.81605	1.01683	987.7129	1003.673
-1.0869	0.57618	0.92005	471.8574	436.0933
-1.00505	0.91417	0.99498	6097.075	6074.973
-1.078	0.59166	0.92764	335.2008	311.168
1.0014	0.9781	1.0014	1672.308	1674.907
-1.05248	0.5278	0.95013	833.2773	794.6812
-1.15143	0.16516	0.86848	4145.967	3493.485
-1.06694	0.20965	0.93726	90996.69	84898.94
-1.07421	0.09597	0.93091	3723.122	3466.113
1.03143	0.48724	1.03143	4792.853	4950.417
-1.05125	0.6961	0.95125	7450.811	6837.504
1.05924	0.67943	1.05924	352.1449	374.6081
1.34468	0.00034	1.34468	1057.641	1419.301
1.49962	1.32E-08	1.49962	1504.281	2267.426
1.22529	0.00029	1.22529	25631.18	31169.47
-1.00111	0.9894	0.99889	6788.107	7025.055
1.0914	0.51589	1.0914	321.7217	351.0443
-1.04683	0.42511	0.95526	2608.704	2482.93
-1.00888	0.9725	0.9912	225.8543	226.9475
1.10076	0.29287	1.10076	560.2233	613.4999
1.00547	0.95705	1.00547	441.6988	444.0627
-1.36591	0.00004	0.73211	9933.348	7155.338
-1.04336	0.88832	0.95844	198.7866	193.8418
1.00578	0.91848	1.00578	1862.992	1877.21
-1.07997	0.10256	0.92595	2074.368	1920.003
-1.11582	0.73202	0.8962	171.7819	152.6084
1.0146	0.92239	1.0146	328.2178	328.9908
1.04608	0.53433	1.04608	903.7151	947.2167
1.05256	0.46408	1.05256	3257.466	3390.952
1.18016	0.04197	1.18016	5902.598	7034.843
-1.15886	0.1978	0.86292	737.1522	642.8311
1.13705	0.07873	1.13705	3881.488	4471.248
1.25095	0.27857	1.25095	162.9933	203.8024
1.14376	0.49337	1.14376	180.2235	205.3377
-1.1276	0.56394	0.88684	290.7241	259.3167
-1.16446	0.29859	0.85877	668.7953	566.6008
-1.05109	0.59565	0.95139	585.875	557.9269
1.0013	0.98549	1.0013	902.9489	906.001
-1.0056	0.9382	0.99443	611.2158	607.8225

-1.06023	0.33385	0.9432	1598.127	1513.399
-1.13493	0.87897	0.88111	69.39439	59.26052
1.00115	0.98645	1.00115	2254.394	2238.677
-1.01743	0.92116	0.98287	326.6448	323.2444
-1.01047	0.85779	0.98964	1217.085	1206.606
1.01168	0.87169	1.01168	4572.874	4680.798
-1.05112	0.88716	0.95137	160.3185	152.5016
1.01261	0.93119	1.01261	365.1742	367.8431
1.00447	0.94548	1.00447	1068.509	1074.716
1.14141	0.04612	1.14141	19628.28	22672.12
1.18085	0.06112	1.18085	2009.41	2393.202
1.13586	0.47529	1.13586	406.0069	465.4202
-1.01765	0.97384	0.98265	105.0002	106.9539
-1.32257	0.00003	0.75611	17139.42	13077.35
-1.18157	0.60854	0.84633	185.4038	156.9639
1.01362	0.87673	1.01362	675.8728	681.2489
-1.60112	8.43E-10	0.62456	2653.5	1638.87
-1.01373	0.79374	0.98645	3152.661	3109.97
1.12948	0.568	1.12948	223.0537	252.786
-1.00819	0.94501	0.99188	607.0094	599.8779
-1.11658	0.70345	0.89559	221.5132	193.641
-1.03512	0.811	0.96608	1685.202	1620.26
1.0384	0.67457	1.0384	3581.608	3674.627
-1.16839	0.83778	0.85588	50.87346	44.43256
-1.65748	0.00758	0.60332	917.7462	565.3436
-1.05625	0.37962	0.94675	1030.627	973.4896
1.09572	0.58389	1.09572	238.8271	264.0849
1.15974	0.18465	1.15974	2213.691	2613.414
1.20808	0.57702	1.20808	144.2579	175.8901
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1.02924	0.74165	1.02924	664.1592	680.6058
-1.06887	0.68471	0.93557	385.4661	358.7495
1.26308	0.05263	1.26308	645.0284	805.1446
-1.90337	4.31E-12	0.52539	1471.279	771.9661
-1.10867	0.0371	0.90198	6102.431	5478.938
1.00173	0.96956	1.00173	3105.537	3111.405
-1.27169	0.11819	0.78636	904.8334	719.9965
-1.03727	0.4723	0.96407	1824.077	1757.437
1.18561	0.41331	1.18561	151.5553	179.6747
-1.05681	0.67912	0.94625	3248.709	2961.689
1.07354	0.25143	1.07354	1125.139	1204.479
-1.11203	0.03707	0.89926	75797.11	67745.04
-1.00133	0.99151	0.99867	781.738	778.4821
1.02301	0.77656	1.02301	861.002	881.1338
-1.00984	0.86373	0.99026	3645.023	3612.094
1.0539	0.40639	1.0539	13108.61	13974.39
1.06061	0.50851	1.06061	1312.327	1387.828
1.07836	0.47461	1.07836	804.7911	862.2125
-1.02337	0.97204	0.97716	88.56011	82.7874
1.39998	1.23E-16	1.39998	697.9796	979.4695
1.07038	0.8206	1.07038	131.631	140.8385
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-1.6346	0.19716	0.61177	153.4249	95.97424
1.00311	0.97157	1.00311	1518.502	1521.849
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-1.08829	0.70529	0.91887	287.072	257.2866
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1.04326	0.74903	1.04326	909.2842	941.5143
1.08732	0.20087	1.08732	2522.21	2758.953
1.08672	0.39913	1.08672	524.6693	569.0456
1.06974	0.55227	1.06974	471.6774	506.7584
-1.12064	0.8259	0.89235	113.6068	97.38715
-1.06922	0.17188	0.93526	1457.645	1362.604
-1.08797	0.56719	0.91914	587.5638	534.5603
1.01891	0.7647	1.01891	1051.667	1070.251
-1.02676	0.9	0.97393	276.5129	271.0684
1.02598	0.91872	1.02598	183.7675	188.9533
-1.10553	0.62821	0.90455	310.8752	283.1891
1.09089	0.2346	1.09089	734.2513	802.5588
-1.06133	0.58689	0.94221	441.8557	415.0492
-1.41947	0.07235	0.70449	504.0648	365.5792
1.12056	0.20067	1.12056	11730.26	13379.43
1.02226	0.82453	1.02226	607.1909	624.698
1.04976	0.5032	1.04976	1542.372	1614.613
-1.01064	0.83023	0.98947	5402.65	5344.473
1.0254	0.64894	1.0254	2194.476	2244.252
1.01445	0.87057	1.01445	692.3771	698.0026
1.05303	0.91453	1.05303	109.9331	117.9226
-1.25522	0.11326	0.79667	10113.34	7546.153
1.05409	0.57585	1.05409	952.9341	1001.22
-1.01299	0.88409	0.98717	964.6075	956.9838
-1.00222	0.98956	0.99779	240.8095	240.2597
-1.36732	0.00111	0.73136	10155.59	7215.151
-1.16271	0.79338	0.86006	99.59476	84.24947
1.05543	0.5191	1.05543	634.0265	667.6467
1.05297	0.33977	1.05297	2448.809	2571.268
-1.38304	0.01332	0.72305	1198.471	878.1899
1	1	1	24.72713	23.14809
1.07025	0.41354	1.07025	1459.392	1555.824
-1.09034	0.46853	0.91714	662.2585	607.5668
-1.13087	0.40667	0.88428	425.6497	376.7017
1.01276	0.93416	1.01276	387.1166	390.7772
-1.05455	0.8529	0.94827	187.733	178.4169
-1.05757	0.66075	0.94556	558.5427	529.3057
-1.0084	0.90367	0.99167	1381.68	1371.985
-1.00004	0.9997	0.99996	822.7733	815.3066
-1.15183	0.21826	0.86818	404.4368	352.0856
-1.04813	0.25069	0.95408	16031.2	15301.96
-1.01129	0.94475	0.98883	361.9524	359.0003
1.00585	0.96155	1.00585	681.4537	678.3749
1.09334	0.44336	1.09334	1232.261	1338.837
-1.00692	0.94332	0.99312	1389.494	1356.162
-1.05353	0.50699	0.94919	3929.759	3695.297

1.09379	0.47884	1.09379	1614.397	1747.055
1.05723	0.52387	1.05723	618.3615	655.8719
-1.06555	0.21424	0.93848	2885.148	2705.751
1.0357	0.8221	1.0357	304.5494	315.6235
-1.02016	0.8053	0.98024	619.5564	605.7834
-1.06741	0.38125	0.93684	1352.981	1264.897
1.00037	0.99496	1.00037	4208.375	4202.813
-1.22942	0.07558	0.81339	1488.617	1201.495
-1.04046	0.56844	0.96111	1630.541	1572.567
1.09516	0.15598	1.09516	3742.241	4061.36
1.01882	0.78057	1.01882	2043.244	2078.195
-1.19382	0.70317	0.83764	127.8895	107.9502
-1.02373	0.90129	0.97682	281.2622	275.2019
1.09289	0.21459	1.09289	4889.749	5337.228
1.04028	0.59671	1.04028	1673.717	1735.128
-1.02554	0.89089	0.97509	327.4392	321.4583
1.15082	0.29387	1.15082	351.5147	406.1838
1.43328	0.08012	1.43328	180.6146	258.1243
1.14363	0.6167	1.14363	257.7911	299.2772
1.28982	0.01061	1.28982	907.9525	1175.329
1.02955	0.60951	1.02955	2420.965	2487.837
1.15969	0.20084	1.15969	659.5075	774.5656
-1.07833	0.63424	0.92736	380.8948	359.3047
1.30424	0.17974	1.30424	326.4079	420.8567
-1.04027	0.90185	0.96129	176.4463	167.2847
1.11271	0.09225	1.11271	10190.94	11377.62
1.11178	0.39954	1.11178	2873.76	3118.309
-1.04128	0.32953	0.96036	4462.761	4286.083
-1.13033	0.06537	0.8847	943.7433	835.3076
-1.00551	0.97352	0.99452	285.53	282.9999
-1.09096	0.40343	0.91662	989.3036	913.0371
-1.21603	0.0137	0.82235	2021.645	1670.844
1.01552	0.86404	1.01552	2999.743	3047.843
-1.14055	0.40772	0.87677	529.4804	458.9696
1.02095	0.6644	1.02095	1499.221	1530.76
-1.05221	0.52166	0.95038	1578.119	1491.599
-1.07099	0.39803	0.93372	1589.932	1490.897
1.05488	0.46869	1.05488	886.6575	933.8123
-1.06276	0.7304	0.94095	220.8813	206.4926
-1.00557	0.95269	0.99446	895.6713	899.2665
1.12351	0.61013	1.12351	203.9782	225.4176
-1.18982	0.17542	0.84047	792.5329	675.6333
1.17927	0.0594	1.17927	633.0222	742.1487
1.00585	0.927	1.00585	1219.799	1230.566
1.2911	0.01395	1.2911	871.2151	1121.036
1.00447	0.9267	1.00447	2322.027	2332.722
1.35679	9.22E-06	1.35679	1069.827	1443.258
1.06375	0.93088	1.06375	65.27645	65.62481
1.03244	0.68213	1.03244	915.8507	943.433
1.00118	0.98224	1.00118	4882.443	4895.127
-1.61644	0.00657	0.61864	839.1803	532.2946
1.04815	0.66405	1.04815	1788.666	1891.163

-2.1494	1.87E-14	0.46525	7157.681	3394.763
-1.10435	0.89255	0.90551	78.41772	68.62921
-1.01153	0.895	0.9886	824.3464	810.8488
1.04153	0.61181	1.04153	612.8501	636.3419
-1.00371	0.95596	0.9963	706.2325	704.6617
-1.00121	0.97754	0.99879	4354.785	4348.32
-1.17661	0.13757	0.8499	750.3763	642.2573
-1.0881	0.22111	0.91903	3425.076	3137.742
1.09842	0.33957	1.09842	1665.908	1857.243
1.02686	0.69299	1.02686	6196.225	6320.673
1.01907	0.94206	1.01907	224.848	225.7447
1.00714	0.95635	1.00714	423.8102	427.1058
-1.00897	0.87917	0.99111	5900.929	5848.329
-1.03948	0.63427	0.96202	662.167	638.8329
-1.09135	0.33416	0.9163	2642.026	2384.994
1.3125	0.20873	1.3125	170.1432	222.2896
-1.02179	0.95012	0.97867	167.1587	160.8669
1.12309	0.10336	1.12309	3444.776	3940.874
-1.13344	0.51065	0.88227	380.8251	347.2032
-1.04392	0.78422	0.95793	249.748	239.3558
1.11286	0.43078	1.11286	281.5665	313.382
-1.00828	0.89423	0.99179	890.5846	883.9325
1.0756	0.41155	1.0756	2840.262	3038.98
-1.01063	0.90985	0.98948	756.8896	754.6266
1.20457	0.04439	1.20457	1109.115	1318.228
-1.06105	0.31482	0.94246	1542.782	1456.296
1.0369	0.56043	1.0369	829.1439	858.9924
-1.0994	0.63851	0.90959	334.6486	309.0988
1.23809	0.00028	1.23809	1097.139	1358.054
-1.17414	0.65181	0.85169	155.9814	132.791
1.20362	0.33891	1.20362	221.7494	263.1921
-1.05094	0.74461	0.95152	313.2204	301.0843
1.28469	0.02683	1.28469	889.092	1131.74
1.1028	0.25031	1.1028	1584.287	1749.193
-1.05363	0.5202	0.9491	848.0894	803.8561
1.27123	0.00326	1.27123	1519.923	1943.209
1.01464	0.85248	1.01464	719.293	726.8933
-1.03472	0.64468	0.96645	1733.132	1683.328
1.03524	0.49807	1.03524	5962.086	6179.209
-1.26696	0.30813	0.78929	292.2383	241.0952
1.0773	0.10509	1.0773	2481.074	2672.275
-1.14942	0.57842	0.87	227.1614	196.4934
-1.09995	0.13317	0.90914	1467.334	1332.889
-1.08948	0.09682	0.91787	1975.281	1812.011
-1.01408	0.82006	0.98612	2473.268	2424.187
-1.83275	1.04E-06	0.54563	481.0719	264.0772
1.0756	0.68542	1.0756	287.2399	302.7239
1.01004	0.95618	1.01004	273.463	281.2242
-1.07281	0.69628	0.93213	305.5519	290.8747
1.28143	0.01301	1.28143	12465.89	16226.41
-1.00568	0.9073	0.99435	2118.767	2106.442
-1.01471	0.8537	0.98551	682.8242	671.0754

-1.34383	0.05814	0.74414	617.0282	472.7411
-1.02839	0.81326	0.97239	493.7879	481.0628
-1.12819	0.53319	0.88638	338.451	297.4051
-1.00409	0.98411	0.99592	228.7378	231.7145
-1.07651	0.75001	0.92893	256.4464	235.973
1.13196	0.57042	1.13196	216.7771	250.8821
-1.03099	0.57682	0.96995	3759.955	3648.59
-1.12374	0.58855	0.88989	317.9007	277.9391
1.09394	0.47733	1.09394	311.382	342.1733
-1.06538	0.83964	0.93863	178.6023	176.9355
1.09694	0.64386	1.09694	267.7784	302.5859
-1.09283	0.14885	0.91506	1325.694	1212.816
-1.00627	0.90761	0.99377	4450.01	4408.239
-1.04482	0.79075	0.9571	444.7332	420.8102
1.00566	0.92024	1.00566	4349.913	4370.279
1.078	0.19423	1.078	2475.325	2671.959
-1.21183	0.11498	0.8252	815.217	680.4777
-1.06489	0.22694	0.93907	52582.03	49073.44
1.09777	0.17623	1.09777	1000.122	1099.564
-1.00928	0.92131	0.99081	1827.607	1822.068
1.01657	0.7924	1.01657	2328.811	2378.868
1.01082	0.88298	1.01082	891.4558	900.2876
-1.28554	0.00047	0.77788	175355.1	139253.8
1.00464	0.95833	1.00464	1218.322	1226.33
-1.00799	0.90954	0.99207	990.3424	985.319
-1.34063	0.00068	0.74592	47648.31	34520.48
-1.12334	0.12403	0.8902	3027.377	2667.986
-1.06133	0.51048	0.94221	1105.705	1041.705
-1.03256	0.50474	0.96847	3227.914	3129.466
-1.03268	0.51534	0.96835	1724.388	1670.337
1.00879	0.9499	1.00879	367.206	366.1209
-1.09005	0.23312	0.91739	2073.931	1885.622
1.02825	0.55287	1.02825	3547.146	3645.803
1.01379	0.94008	1.01379	266.6176	273.7208
-1.31648	0.06625	0.7596	912.4935	704.7597
1.05241	0.24308	1.05241	10467.91	11024.39
-1.44838	0.01421	0.69042	537.1307	379.1486
-1.02897	0.72471	0.97184	737.747	714.6469
-1.10841	0.47326	0.90219	730.6143	651.234
1.08851	0.18138	1.08851	1135.475	1236.102
-1.07329	0.56995	0.93172	512.1579	481.2344
1.10935	0.16591	1.10935	7066.545	8009.984
-1.07942	0.60398	0.92642	572.488	530.6115
-1.03921	0.45078	0.96227	4398.896	4246.76
-1.05794	0.66626	0.94523	316.8992	301.0525
-1.17552	0.20692	0.85069	621.3079	527.2833
1	1	1	23.45589	22.22696
-1.24598	0.18115	0.80258	344.6197	278.9232
-1.0849	0.73841	0.92174	249.4766	233.5367
1.01592	0.76	1.01592	3328.364	3378.236
-1.02097	0.68699	0.97946	1999.051	1957.597
-1.00686	0.8959	0.99319	4658.887	4620.069

-1.00551	0.91607	0.99452	1185.255	1178.744
-1.08864	0.38601	0.91858	1613.134	1471.209
-1.07043	0.89323	0.93421	110.868	103.2617
1.09219	0.76593	1.09219	151.0768	161.2047
-1.01825	0.77679	0.98207	1124.926	1104.706
1.00851	0.88422	1.00851	3894.441	3963.229
-1.24345	0.00007	0.80421	9525.816	7584.31
-1.0061	0.98947	0.99394	103.3787	109.5498
-1.0014	0.98246	0.9986	2379.045	2372.499
1.01084	0.85259	1.01084	2734.302	2770.761
-1.02547	0.72311	0.97516	3461.313	3345.506
-1.1121	0.84539	0.8992	104.8616	94.8431
-1.05366	0.61946	0.94908	713.6196	683.8933
1.00512	0.95521	1.00512	967.0095	970.1538
-1.39162	0.19035	0.71858	220.1233	161.7838
1.10876	0.47203	1.10876	263.9391	294.1848
-1.01597	0.90924	0.98428	307.2761	303.8268
1.01264	0.86873	1.01264	1030.169	1044.962
-1.14039	0.48944	0.87689	317.6136	277.7806
1.03053	0.84524	1.03053	274.8224	285.1022
1.20721	0.62056	1.20721	104.4171	126.9585
-1.02513	0.69166	0.97549	3406.427	3321.984
-1.04409	0.54577	0.95777	1718.589	1653.176
-1.12932	0.7673	0.88549	144.0185	130.2697
-1.00185	0.99153	0.99816	272.8205	272.0785
1	1	1	25.31496	19.92372
1.09867	0.07398	1.09867	5671.842	6261.137
-1.0714	0.12216	0.93335	3890.4	3629.762
-1.0567	0.72649	0.94634	416.0386	403.4454
-1.73548	1.05E-17	0.57621	17084.79	9724.094
-1.00864	0.87523	0.99143	2010.161	1992.547
1.02215	0.91267	1.02215	273.663	274.2923
1.08516	0.17949	1.08516	977.4977	1058.223
-1.03182	0.7877	0.96916	389.0912	377.0764
-1.04851	0.28616	0.95374	11613.44	11106.3
-1.09811	0.33621	0.91065	2077.957	1918.608
-1.07033	0.46412	0.93429	711.9547	664.3108
-1.11048	0.37003	0.90051	454.5776	410.7485
-1.05892	0.57894	0.94436	11834.91	10727.04
-1.0089	0.9231	0.99118	1921.037	1898.5
-1.07574	0.55784	0.92959	806.0282	759.2682
1.41412	3.50E-08	1.41412	4884.601	6948.041
-1.46243	0.00299	0.68379	1553.391	1072.481
-1.0381	0.54298	0.9633	2348.345	2265.874
-1.02363	0.80075	0.97691	885.8613	863.8309
1.07104	0.36932	1.07104	718.0093	770.9001
1.05046	0.32345	1.05046	1628.131	1710.866
-1.23804	0.13566	0.80773	1230.237	1016.17
-1.02898	0.65194	0.97184	695.9446	676.0312
1.00556	0.96041	1.00556	567.9879	570.0013
-1.32204	0.10991	0.75641	553.458	434.8937
-1.06396	0.72605	0.93989	443.5156	409.7054

1.05534	0.51997	1.05534	625.523	658.1312
1.07877	0.28931	1.07877	7277.083	7964.644
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1.08733	0.95879	1.08733	22.43277	26.30035
1.03259	0.8976	1.03259	222.1441	227.2486
1.10914	0.47348	1.10914	412.9963	452.5004
1.02217	0.72785	1.02217	1093.49	1118.881
1.02969	0.77401	1.02969	803.5394	836.4442
1	1	1	22.35701	22.01715
1.05671	0.80544	1.05671	203.8583	215.7983
1.21038	0.03372	1.21038	687.5129	836.6491
-1.04835	0.75016	0.95388	402.2091	383.8485
-1.03768	0.6592	0.96368	494.2002	476.8825
-1.1898	0.06696	0.84048	1092.84	926.5574
-1.16182	0.17138	0.86072	1156.792	995.6758
1.03433	0.74041	1.03433	603.0634	629.3171
1.00057	0.99545	1.00057	803.787	808.6769
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1.18334	0.37424	1.18334	336.0747	398.4518
1.22612	0.29768	1.22612	636.7864	772.7426
-1.19502	0.1288	0.8368	567.0095	469.1226
-1.11064	0.91792	0.90038	53.41375	45.42552
1.64499	5.02E-13	1.64499	1816.086	2990.042
-1.01655	0.8085	0.98372	1011.54	992.3585
1.03285	0.91565	1.03285	118.372	121.3807
-1.01596	0.77553	0.98429	1379.13	1356.999
1.12838	0.03391	1.12838	6259.624	7106.223
-1.04658	0.57652	0.9555	2592.99	2480.546
-1.13874	0.37183	0.87817	497.1361	436.5166
1.12872	0.44602	1.12872	299.9969	334.068
-1.1392	0.53604	0.87781	329.6922	299.849
1.01557	0.841	1.01557	2295.716	2329.939
1.04047	0.85363	1.04047	196.9595	202.5095
1.20075	0.85453	1.20075	43.04269	49.01067
1.03136	0.65943	1.03136	3974.396	4112.863
1.03873	0.58736	1.03873	3627.611	3756.581
1.08088	0.68065	1.08088	256.4852	280.4652
1.00747	0.92842	1.00747	1067.04	1069.253
-1.04206	0.64752	0.95964	578.4077	552.2711
1.47333	0.00059	1.47333	654.7574	977.2916
1.03166	0.7565	1.03166	690.513	707.6834
-1.12829	0.42311	0.8863	406.1895	360.2961
-1.05868	0.57043	0.94458	1121.859	1074.886
-1.03662	0.7952	0.96467	494.4222	475.2647
1.09705	0.14182	1.09705	938.9973	1029.946
-1.1975	0.12899	0.83507	1391.477	1154.798
1.00699	0.90207	1.00699	1679.921	1692.148
1.12053	0.77893	1.12053	127.4945	143.2493
1.03255	0.65295	1.03255	1844.284	1904.555
1.07934	0.37093	1.07934	699.3281	751.3193
1.02283	0.60548	1.02283	2643.999	2704.488
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1.08062	0.56443	1.08062	483.9231	527.7992
1.02813	0.68505	1.02813	1130.028	1161.429
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1.11952	0.4945	1.11952	330.202	362.872
1.15443	0.18584	1.15443	471.4378	541.3207
-1.11501	0.07237	0.89686	1755.481	1572.407
-1.04945	0.46923	0.95288	789.0654	751.7549
1.00775	0.96035	1.00775	393.7043	396.8489
1.07278	0.38868	1.07278	2266.921	2450.279
-1.13453	0.4117	0.88142	631.003	552.7728
-1.1779	0.12354	0.84897	3676.349	3203.323
-1.09572	0.10213	0.91264	5087.056	4622.999
1.01078	0.85829	1.01078	1493.67	1511.354
-1.06028	0.87168	0.94315	156.4209	146.1805
-1.07604	0.45481	0.92933	793.3226	741.4303
1.01725	0.87556	1.01725	388.6192	394.3055
1.00709	0.9581	1.00709	516.381	529.6818
-1.27913	0.28284	0.78178	201.967	159.9891
-1.02599	0.55167	0.97467	3533.475	3443.413
-1.05145	0.31072	0.95107	1566.547	1488.23
1.27405	0.88341	1.27405	26.53827	31.09651
1.14321	0.01903	1.14321	21534.68	24422.59
1.00983	0.89664	1.00983	1349.9	1376.175
-1.12577	0.22029	0.88828	855.1465	765.0278
-1.05531	0.87248	0.94759	170.9997	160.609
1.60515	0.08953	1.60515	202.8848	305.0902
1.0165	0.8588	1.0165	636.7583	646.5244
1.11658	0.91913	1.11658	43.62595	48.62025
1.29875	0.00116	1.29875	3662.914	4896.623
1.28888	0.11943	1.28888	610.315	767.7137
-1.00965	0.86921	0.99044	1108.927	1099.238
-1.0697	0.8506	0.93484	166.7158	152.4654
1.23147	0.02681	1.23147	1663.416	2071.925
1.01687	0.90637	1.01687	665.8057	691.277
1.01854	0.84159	1.01854	663.8045	680.174
1.00582	0.94663	1.00582	499.5858	501.6368
1.04221	0.52931	1.04221	1464.235	1526.386
1.04156	0.56624	1.04156	850.9563	884.9033
-1.09992	0.37784	0.90916	1455.208	1330.301
-1.21296	0.02158	0.82443	830.7011	685.8403
-1.29527	0.00002	0.77204	24073.32	18449.78
1.08976	0.35967	1.08976	1635.771	1791.445
1.03557	0.62604	1.03557	9249.076	9577.547
-1.07769	0.41951	0.92791	1296.279	1198.201
1.03224	0.56528	1.03224	1327.933	1370.712
-1.02131	0.77871	0.97913	701.1238	686.9636
-1.01119	0.94318	0.98893	539.3846	547.2451
-1.05561	0.86045	0.94732	151.6161	143.3693
-1.08275	0.81973	0.92357	187.6589	184.3926
-1.16747	0.29091	0.85655	411.8411	358.4408
1.04407	0.56526	1.04407	2588.667	2689.467
1.05225	0.5208	1.05225	630.2479	660.8933

1.03339	0.96376	1.03339	76.26538	69.61209
1.03481	0.70124	1.03481	1447.662	1503.299
-1.02952	0.73762	0.97133	693.3702	670.583
1.11372	0.02904	1.11372	2136.063	2381.171
-1.00327	0.9656	0.99674	1486.527	1483.178
1.0149	0.80519	1.0149	2195.217	2232.181
-1.06233	0.36088	0.94133	3812.172	3609.782
-1.20989	0.05766	0.82652	5622.192	4550.181
-1.03266	0.84309	0.96837	245.1246	236.7942
-1.21834	0.41435	0.82079	381.314	326.7148
1.01899	0.84002	1.01899	446.724	455.8709
-1.39566	0.00931	0.71651	1418.636	1017.551
-1.07465	0.48169	0.93054	482.7908	449.8118
-1.01172	0.88528	0.98842	1551.321	1536.322
1.05773	0.75179	1.05773	328.9468	349.594
1.01753	0.71212	1.01753	30282.95	30926.3
1.06389	0.43409	1.06389	820.9954	873.2711
1.01234	0.873	1.01234	891.9523	899.7381
-1.05277	0.28631	0.94987	2333.02	2215.943
-1.44844	6.04E-12	0.6904	4043.057	2782.417
1.60499	6.92E-07	1.60499	1038.037	1664.641
1.01206	0.90042	1.01206	628.2674	631.3057
1.10716	0.02846	1.10716	10868.23	12070.23
-1.02176	0.74629	0.97871	4786.997	4681.528
1.1022	0.30162	1.1022	4724.17	5244.027
1.10075	0.15146	1.10075	1311.605	1444.645
-1.263	3.66E-08	0.79177	100792.1	79892.52
1.00693	0.99669	1.00693	26.71741	22.10868
-1.17896	0.29404	0.84821	698.4964	605.5878
-1.06473	0.37967	0.9392	1109.528	1042.105
-1.15981	0.25078	0.86221	436.443	380.5017
1.21368	0.12597	1.21368	1584.255	1952.015
1.05631	0.41958	1.05631	754.6248	795.7267
1.00725	0.90382	1.00725	6174.945	6157.832
-1.13885	0.43381	0.87808	468.9904	406.424
1.15806	0.16889	1.15806	2095.313	2461.816
1.09616	0.07666	1.09616	1837.326	2008.846
1.25085	0.21678	1.25085	315.8151	386.4929
-1.00906	0.89619	0.99102	2675.943	2640.684
-1.09099	0.03858	0.9166	3729.646	3418.665
1.0222	0.80679	1.0222	5968.785	6094.882
-1.07664	0.20592	0.92882	1119.342	1041.784
1.16579	0.02033	1.16579	702.7855	818.0094
-1.03981	0.68332	0.96172	727.0956	704.9822
1.07422	0.71209	1.07422	335.9471	354.9144
1.031	0.59409	1.031	2609.647	2682.323
-1.09294	0.32731	0.91496	663.8892	608.1348
1.01125	0.88337	1.01125	1269.76	1286.481
1.02953	0.70126	1.02953	1893.869	1949.591
1.06524	0.7849	1.06524	223.0729	245.5616
-1.02594	0.69185	0.97471	1726.885	1690.043
-1.07234	0.29769	0.93254	1421.854	1323.933

1.02146	0.6961	1.02146	7272.072	7406.763
-1.003	0.96938	0.99701	1045.556	1040.22
-1.02461	0.57207	0.97598	4772.793	4657.643
1.2652	0.85266	1.2652	28.98265	37.69855
-1.00474	0.94796	0.99528	1470.641	1459.599
1.21042	0.41313	1.21042	178.1272	211.7056
1.0826	0.09819	1.0826	1992.733	2155.145
-1.04386	0.96673	0.95798	50.52911	46.78483
1.16865	0.39223	1.16865	224.4524	264.8637
1.12014	0.01286	1.12014	2490.552	2790.851
1.4589	0.00035	1.4589	3767.962	5533.5
1.05111	0.5318	1.05111	602.2998	632.0272
1.04518	0.88571	1.04518	147.2588	157.1608
1.02249	0.90495	1.02249	191.5955	195.5859
1.14294	0.03271	1.14294	3646.075	4173.441
-1.57297	2.91E-22	0.63574	4294.051	2731.944
1.00679	0.90777	1.00679	1524.297	1534.745
-1.04346	0.70718	0.95835	391.4241	376.5685
1.05122	0.498	1.05122	840.0871	884.3696
1.05109	0.42638	1.05109	875.5708	921.0359
1.06175	0.27174	1.06175	1541.907	1637.029
1.18391	0.00113	1.18391	1604.383	1900.281
-1.00467	0.93531	0.99536	15020.88	15015.23
-1.06224	0.65937	0.94141	580.8127	555.1681
1.09272	0.54527	1.09272	379.9144	408.0991
-1.05912	0.62048	0.94418	928.7255	884.8636
1.00168	0.9835	1.00168	670.1209	670.8762
1.00548	0.95769	1.00548	563.3586	566.1219
1.44866	0.00073	1.44866	453.3296	651.722
-1.03865	0.52639	0.96279	1651.489	1589.724
1.08872	0.89105	1.08872	79.69899	87.9565
-1.06827	0.39688	0.93609	4851.748	4619.045
1.25947	0.03389	1.25947	491.4457	613.7835
-1.04123	0.91756	0.96041	132.0871	126.8917
-1.03953	0.65325	0.96198	547.8377	527.6849
1.02617	0.68932	1.02617	2858.133	2961.559
1.04504	0.68013	1.04504	1227.792	1277.426
1.01833	0.81691	1.01833	1631.487	1660.063
1.07187	0.48584	1.07187	1751.787	1871.444
1.32653	0.00003	1.32653	1722.874	2290.161
-1.05143	0.60081	0.95109	2961.513	2815.539
-1.02386	0.85988	0.97669	502.1581	492.4012
1.10233	0.63258	1.10233	180.0631	200.1333
1.0938	0.28603	1.0938	4316.864	4820.856
1.05066	0.33398	1.05066	6205.303	6547.973
1.05631	0.26843	1.05631	7641.349	8075.932
1.06326	0.53097	1.06326	14433.46	14806.42
-1.12081	0.59748	0.89221	312.2356	275.2655
1.02709	0.96076	1.02709	105.3681	104.0329
-1.13545	0.44181	0.88071	422.0008	373.0212
1.00506	0.95169	1.00506	909.1348	917.523
-1.47373	0.01802	0.67855	1238.034	852.6883

1.01355	0.80761	1.01355	1505.719	1526.268
1.04311	0.96096	1.04311	54.57467	56.83153
1.04021	0.48742	1.04021	1773.311	1844.288
1.01694	0.77275	1.01694	4787.013	4903.414
1.22564	0.00344	1.22564	2300.302	2826.504
1.11963	0.56917	1.11963	291.1791	315.1465
-1.02991	0.61976	0.97095	1197.452	1165.056
-2.30482	0.15718	0.43387	108.746	50.56379
-1.01134	0.87446	0.98879	2413.444	2415.508
1.04278	0.57743	1.04278	1548.077	1617.598
-1.06011	0.67555	0.9433	488.2549	469.4553
-1.04594	0.66178	0.95607	739.9686	702.9749
-1.0681	0.35468	0.93624	1287.239	1208.591
-1.12404	0.40954	0.88965	617.4876	561.3873
-1.07279	0.56544	0.93215	2101.604	1936.654
-1.03353	0.65517	0.96756	1046.778	1016.427
-1.1174	0.3304	0.89494	874.3872	791.3436
1.07781	0.16874	1.07781	3734.087	4038.942
-1.57957	0.00045	0.63308	918.4391	588.4979
1.02173	0.6737	1.02173	1222.844	1249.449
-1.03857	0.63228	0.96286	860.3845	831.4736
1.03463	0.50564	1.03463	2521.469	2607.894
-1.10376	0.28897	0.906	623.619	566.0653
-1.02559	0.83024	0.97505	544.7512	530.3132
1.01553	0.73815	1.01553	1740.672	1767.492
1.11051	0.16758	1.11051	6521.505	7313.664
-1.16473	0.24146	0.85857	5277.535	4332.288
-2.89508	4.19E-11	0.34541	4497.501	1481.176
-1.52873	2.79E-12	0.65414	20535.05	13557.04
-1.02927	0.66664	0.97156	1681.486	1628.971
1.04052	0.49671	1.04052	1943.094	2024.552
-1.0425	0.54327	0.95924	2388.938	2286.688
-1.01487	0.89672	0.98535	380.7756	377.1877
1.49678	5.00E-16	1.49678	4121.404	6170.095
1.06638	0.28629	1.06638	994.914	1060.983
1.06604	0.90005	1.06604	85.98558	91.83501
-1.01633	0.82975	0.98393	544.7962	535.4951
1.0466	0.5721	1.0466	569.0909	595.536
1.22971	0.00015	1.22971	1615.054	1984.273
-1.02978	0.70155	0.97108	2255.283	2174.16
1.03845	0.56969	1.03845	4120.633	4294.566
1.54063	0.00413	1.54063	1297.927	1973.737
1.00271	0.97578	1.00271	741.7832	739.2847
1.00934	0.87131	1.00934	5380.019	5387.9
-1.01671	0.8297	0.98356	862.8206	852.4756
-1.04536	0.68568	0.9566	498.4539	476.7983
1.02325	0.79824	1.02325	697.6643	709.4554
1.01547	0.83507	1.01547	4217.359	4308.25
1.07566	0.45934	1.07566	519.3714	559.8049
1.00868	0.9161	1.00868	742.77	745.3514
-1.04392	0.87308	0.95792	244.6774	254.4716
1.00472	0.99731	1.00472	31.85432	30.04239

-1.07112	0.69155	0.9336	389.8614	367.0949
1.04418	0.84128	1.04418	224.8961	235.5044
1.06246	0.53851	1.06246	452.4675	482.2311
1.06247	0.45893	1.06247	748.9093	792.6337
1.15033	0.40321	1.15033	378.4739	422.7054
1.13685	0.13183	1.13685	518.6437	588.9359
1.01792	0.88806	1.01792	1345.912	1376.161
1.09397	0.75123	1.09397	179.8843	190.1625
1.21744	0.04466	1.21744	739.9639	895.0725
1.01532	0.90986	1.01532	275.2511	280.322
1.07933	0.26101	1.07933	4011.633	4352.647
1.08314	0.94434	1.08314	33.10073	33.7215
-1.0025	0.96699	0.99751	1757.852	1751.396
-1.05189	0.65761	0.95067	508.9794	479.6106
1.08262	0.11549	1.08262	4111.655	4459.044
1.05017	0.47948	1.05017	4275.955	4500.992
1.05522	0.24816	1.05522	6622.933	6968.969
1.02191	0.78025	1.02191	645.171	657.3416
1.03464	0.43406	1.03464	2141.746	2215.661
1.10732	0.35442	1.10732	472.2597	518.9555
1.21571	0.09229	1.21571	872.9935	1050.762
-1.18875	0.05073	0.84122	142701	116029.9
1.03624	0.53165	1.03624	1735.949	1797.613
-1.05392	0.35305	0.94883	1115.828	1059.16
-1.10349	0.70136	0.90621	243.4887	217.2614
1.05174	0.47965	1.05174	2686.283	2828.105
1.15851	0.68069	1.15851	163.8042	195.7895
-1.0626	0.44199	0.94109	2146.765	2023.491
1.07925	0.37278	1.07925	1050.565	1129.931
-1.03421	0.58931	0.96692	1350.112	1311.291
1.05158	0.68381	1.05158	452.9961	475.7467
1.07562	0.587	1.07562	366.5291	392.1879
1.04307	0.86755	1.04307	224.7804	234.2855
-1.27916	0.06638	0.78177	3092.241	2316.27
-1.02631	0.67134	0.97436	1919.209	1868.516
-1.37179	1.22E-10	0.72897	11400.85	8283.207
-1.04426	0.56076	0.95761	1829.025	1745.895
1.2149	0.81555	1.2149	51.43003	63.15037
1.07385	0.41241	1.07385	3179.12	3416.764
1.06333	0.35097	1.06333	6545.216	6965.312
1.05118	0.59711	1.05118	830.7903	868.0772
-1.09404	0.61788	0.91404	223.2506	204.1122
1.11029	0.35414	1.11029	656.6939	721.0161
1.02775	0.79662	1.02775	444.9122	459.6827
1.07538	0.11468	1.07538	2856.288	3066.749
1.0055	0.98609	1.0055	181.1061	192.9129
1.11418	0.38429	1.11418	501.4429	551.1617
-1.01584	0.72917	0.98441	2174.691	2140.323
-1.62318	1.71E-23	0.61608	47095.28	29074.73
1.19392	0.13265	1.19392	402.7718	476.5872
-1.06181	0.55095	0.94179	1475.82	1410.522
1.00572	0.92885	1.00572	2096.247	2116.281

1.05721	0.62976	1.05721	1516.35	1557.819
1.08316	0.49755	1.08316	339.3232	368.7184
-1.02681	0.72056	0.97389	2392.739	2362.003
-1.07377	0.39862	0.9313	4990.968	4594.907
-1.01733	0.87705	0.98297	416.785	407.3463
1.12593	0.57064	1.12593	256.523	280.5288
1.05574	0.65199	1.05574	410.4954	433.4307
-1.02478	0.7853	0.97582	1479.241	1448.362
1.00446	0.94318	1.00446	2581.225	2560.57
-1.12487	0.65251	0.88899	262.1415	225.91
1.25317	0.00732	1.25317	834.5243	1049.374
-1.03616	0.53847	0.9651	1328.18	1283.312
-1.07535	0.40369	0.92993	755.9453	706.5864
1.15822	0.28891	1.15822	439.2304	499.8129
1.02843	0.94272	1.02843	122.9967	121.9843
1.0138	0.79913	1.0138	1238.692	1255.732
1.08969	0.11483	1.08969	2536.607	2766.952
1.03835	0.49879	1.03835	1507.671	1565.857
-1.041	0.85778	0.96062	270.7323	260.7932
-1.07219	0.61658	0.93267	546.2013	520.218
-1.05796	0.60977	0.94521	3587.215	3267.029
1.46039	0.00391	1.46039	1757.268	2572.873
-1.01104	0.99205	0.98908	44.05457	43.52546
1.05499	0.46674	1.05499	2612.827	2757.812
-1.02693	0.69013	0.97377	6078.623	5927.721
-1.02492	0.63701	0.97568	2747.243	2686.126
1.01342	0.91489	1.01342	451.4056	459.6298
-1.10294	0.85502	0.90667	111.7951	106.7727
1.09711	0.21147	1.09711	1170.218	1283.885
-1.04976	0.57939	0.9526	608.5405	579.5861
1.03181	0.65891	1.03181	654.991	677.218
-1.05089	0.78632	0.95157	426.063	411.6892
1.22512	0.00002	1.22512	3444.294	4228.882
1.15181	0.05833	1.15181	1414.472	1634.339
1.03374	0.95683	1.03374	88.06734	87.83394
1.06038	0.44971	1.06038	2447.414	2581.741
-1.02729	0.79244	0.97343	650.2363	636.7346
-1.00146	0.98535	0.99854	475.3384	474.3762
-1.00043	0.99413	0.99957	1180.809	1178.583
-1.40458	1.73E-06	0.71195	5151.891	3616.776
1.03442	0.7165	1.03442	810.7795	844.5076
-1.08034	0.85095	0.92563	129.6486	129.179
-1.05805	0.62223	0.94514	558.3652	533.5874
1.0234	0.75495	1.0234	1105.614	1131.117
-1.02307	0.71655	0.97745	873.4123	854.4379
1.05975	0.35928	1.05975	7289.105	7693.021
1.19544	0.6226	1.19544	106.231	124.7642
1.25606	0.01657	1.25606	6095.884	7721.911
1.05056	0.59249	1.05056	911.1395	959.5508
1.22661	0.00257	1.22661	1010.449	1238.697
1.01518	0.82905	1.01518	2180.976	2232.298
1.06912	0.74279	1.06912	238.7014	250.0876

-1.2178	0.02235	0.82115	6388.637	5148.578
-1.16451	0.20683	0.85873	544.1776	463.4737
1.02137	0.81958	1.02137	3092.653	3154.636
-1.07983	0.52142	0.92607	549.3157	509.3737
-1.03083	0.58628	0.97009	3125.794	3030.602
1.04507	0.4275	1.04507	2348.072	2448.978
-1.19511	0.75376	0.83674	104.9706	87.72566
1.28397	0.0133	1.28397	4912.276	6164.205
-1.1572	0.2787	0.86416	569.5142	490.9141
-1.02748	0.8608	0.97326	285.4211	278.6426
-1.09165	0.6846	0.91604	300.4135	279.1671
1.0696	0.21392	1.0696	13630.2	14661.62
1.14783	0.52925	1.14783	276.453	304.037
1.07078	0.54029	1.07078	1075.976	1154.404
1.02005	0.82596	1.02005	559.698	572.644
1.30929	1.34E-06	1.30929	5257.46	6920.956
1.11618	0.26097	1.11618	436.1115	487.9265
1.12308	0.48408	1.12308	428.801	464.7073
-1.39334	4.37E-06	0.7177	5193.623	3705.378
1.11323	0.11784	1.11323	2674.329	2983.171
-1.10308	0.3322	0.90656	1063.296	970.6071
1.11374	0.62693	1.11374	177.8952	196.7362
-1.0428	0.60274	0.95896	2669.187	2546.456
-1.72647	0.00037	0.57922	909.5798	535.6846
-1.05015	0.52667	0.95224	1555.307	1476.788
-1.09541	0.32134	0.9129	1181.28	1081.801
-1.42275	0.13441	0.70287	272.4298	193.1731
1.06147	0.31655	1.06147	986.9978	1045.409
-1.0472	0.51441	0.95493	816.1217	781.5539
1.16154	0.0122	1.16154	690.1815	801.6801
1.06006	0.94751	1.06006	51.02892	54.08754
1.10609	0.1455	1.10609	935.2645	1036.337
-1.00469	0.95402	0.99533	3880.911	3804.391
-1.164	0.0358	0.85911	956.5361	823.6871
-1.00443	0.95573	0.99559	809.1201	801.3091
1.01004	0.87203	1.01004	2674.129	2694.143
-1.03908	0.68117	0.96239	508.0984	490.6135
1.02227	0.76523	1.02227	1278.555	1304.346
-1.15076	0.50797	0.86899	331.3521	283.157
1.31276	0.0039	1.31276	401.2029	526.6994
1.10058	0.08051	1.10058	1544.79	1700.07
1.08704	0.06849	1.08704	3450.019	3748.746
-1.00888	0.89269	0.9912	6499.791	6459.429
-1.00849	0.93244	0.99158	670.7087	670.813
-1.11323	0.04315	0.89828	1769.021	1589.902
-1.05152	0.29336	0.951	3840.905	3645.417
1.227	0.18256	1.227	295.6881	358.3203
-1.0234	0.98378	0.97714	30.70869	27.07975
1.02612	0.78134	1.02612	3421.705	3523.132
1.09692	0.21259	1.09692	60039.37	66660.26
-1.0195	0.70091	0.98087	4486.095	4420.123
-1.17601	0.63867	0.85033	174.4098	146.6851

1.1965	0.18533	1.1965	256.5778	305.658
-1.20434	0.32427	0.83033	486.3708	414.8653
-1.07901	0.35244	0.92678	1160.078	1076.487
-1.025	0.96315	0.97561	101.8887	100.0979
-1.00939	0.89476	0.99069	1178.733	1163.742
1.1766	0.05307	1.1766	1208.583	1421.124
1.02454	0.67612	1.02454	1244.229	1276.132
1.7718	4.14E-18	1.7718	9867.287	17692.58
1.05848	0.80159	1.05848	246.2655	251.761
1.22888	0.18946	1.22888	233.7803	285.1525
1.16201	0.0501	1.16201	1015.626	1176.548
-1.1256	0.00431	0.88842	48697.23	43239.2
1.48649	0.0002	1.48649	1025.291	1522.656
-1.51278	0.19394	0.66103	193.1362	132.7426
-1.04525	0.48065	0.95671	6980.43	6646.797
1.03609	0.60495	1.03609	791.4309	820.4692
-1.02103	0.77168	0.9794	3799.368	3726.571
1	1	1	25.92328	23.8607
1.11563	0.24057	1.11563	642.1552	713.6112
-1.14004	0.19163	0.87716	582.5796	514.1351
-1.75288	5.38E-11	0.57049	3146.109	1793.488
-1.00441	0.93793	0.99561	4907.563	4879.466
-1.06748	0.89579	0.93679	112.123	106.0213
-1.00202	0.99262	0.99798	269.3971	271.4274
1.16232	0.03654	1.16232	1594.353	1856.107
-1.01833	0.82458	0.982	611.2791	600.4584
1.04614	0.57196	1.04614	732.6577	764.8107
-1.11505	0.67191	0.89682	233.7738	209.859
-1.60882	0.00021	0.62157	2550.856	1549.136
-1.08771	0.12753	0.91936	1250.687	1150.227
1.01732	0.83977	1.01732	1976.096	2029.512
-1.13655	0.70577	0.87985	184.4138	158.5685
-1.17572	0.74651	0.85055	117.9642	98.22365
1.15184	0.40216	1.15184	533.2192	621.2674
-1.12479	0.06686	0.88905	7168.554	6449.836
1.04033	0.73981	1.04033	987.9554	1020.148
1.0343	0.78343	1.0343	369.51	380.167
-1.0272	0.9304	0.97352	185.3553	184.0322
1.07366	0.45224	1.07366	617.4098	667.6104
1.14878	0.1165	1.14878	2441.922	2847.607
1.01268	0.85669	1.01268	7277.934	7392.197
1.09551	0.1303	1.09551	1469.176	1609.662
1.12188	0.31986	1.12188	434.1354	490.9396
-1.09596	0.15439	0.91244	2262.368	2060.489
-1.03245	0.63028	0.96857	927.7045	899.7222
-1.05186	0.7541	0.9507	399.8332	378.6992
1.78958	0.02422	1.78958	1403.355	2659.938
-1.02054	0.79154	0.97988	2497.992	2455.567
1.04178	0.75335	1.04178	378.4168	390.2289
-1.27989	0.08467	0.78132	5893.997	4408.278
1.01502	0.93879	1.01502	209.9493	211.9794
1.10396	0.10652	1.10396	1169.767	1293.154

1	1	1	23.07561	21.10665
-1.02774	0.84329	0.97301	393.3833	383.0425
1.15573	0.32441	1.15573	331.2739	377.6364
-1.02766	0.72316	0.97309	3064.594	2956.253
1.11882	0.03277	1.11882	3817.164	4255.307
1.0057	0.95771	1.0057	1181.666	1184.084
1.05626	0.74022	1.05626	259.2972	276.3852
-1.07179	0.42025	0.93302	1428.514	1344.314
1.09497	0.13961	1.09497	2596.474	2833.798
1.00047	0.99448	1.00047	2743.603	2737.711
-1.02205	0.7431	0.97842	1634.686	1602.22
-1.00355	0.9779	0.99646	369.428	371.3528
-1.05441	0.35896	0.9484	1392.807	1316.885
-1.01459	0.85519	0.98562	22981.93	23156.31
1.0343	0.79309	1.0343	404.5211	414.2661
-1.11889	0.77839	0.89374	147.8817	137.6089
1.2442	0.066	1.2442	315.4879	393.7281
1.04361	0.72941	1.04361	1450.439	1538.839
1.0432	0.74291	1.0432	310.4698	325.2382
1.35418	0.00002	1.35418	3892.359	5227.417
-1.08462	0.31052	0.92199	1875.866	1737.575
1.02621	0.83209	1.02621	2245.531	2255.607
-1.03726	0.71858	0.96408	1420.865	1376.713
1.0082	0.95887	1.0082	271.2072	275.8882
-1.07634	0.68348	0.92908	375.1373	352.2803
-1.3666	0.0005	0.73174	913.228	670.3056
1.0655	0.44404	1.0655	723.2461	767.5653
-1.19911	0.04368	0.83395	881.934	740.5179
1.01679	0.8063	1.01679	799.4929	811.993
1.01215	0.83604	1.01215	1439.776	1455.376
-1.41359	0.03803	0.70742	1078.425	781.6257
-1.427	4.49E-14	0.70077	4540.899	3180.626
-1.0283	0.6947	0.97248	6393.999	6096.902
1.02182	0.63131	1.02182	3503.104	3576.396
-1.12738	0.61615	0.88701	194.3557	175.0866
1.11466	0.8343	1.11466	93.39188	105.783
1.1371	0.07559	1.1371	5664.915	6467.085
1.2151	0.03243	1.2151	499.1244	604.2395
1.20803	0.04682	1.20803	6632.396	8206.437
-1.14325	0.01567	0.8747	4824.87	4212.574
1.09193	0.09188	1.09193	1797.556	1963.09
1.0645	0.656	1.0645	462.0992	501.6361
1.04062	0.65063	1.04062	1673.652	1734.02
1.03082	0.76713	1.03082	457.4919	473.5631
-1.01168	0.87248	0.98845	1032.903	1025.982
-1.02645	0.91129	0.97423	228.4438	218.2149
-1.08643	0.42132	0.92044	5684.487	5029.756
-1.01812	0.91827	0.9822	297.6032	292.5162
-1.14054	0.26127	0.87678	1563.836	1354.381
1.2531	0.03455	1.2531	416.8953	523.3164
1.06806	0.39576	1.06806	9338.488	10027.59
1.2696	0.00059	1.2696	925.4959	1175.414

1.09084	0.55379	1.09084	320.4408	353.846
1.05594	0.65594	1.05594	374.3177	392.1964
-1.00962	0.8893	0.99047	1262.532	1250.627
-1.33367	0.00233	0.74981	1091.956	813.9714
-1.12808	0.91379	0.88646	36.56879	31.24663
1.08309	0.37599	1.08309	2376.873	2599.2
-1.02576	0.65122	0.97489	2168.124	2120.031
1.04116	0.94776	1.04116	76.49001	77.95154
1.02393	0.5963	1.02393	4637.998	4748.406
-1.05658	0.48721	0.94645	3102.645	2913.392
1.03182	0.83043	1.03182	351.4025	362.9703
1.51857	4.11E-09	1.51857	884.7412	1342.933
1.14905	0.04471	1.14905	1662.732	1917.347
-1.37849	0.06237	0.72543	1281.114	928.2473
1.26122	0.05591	1.26122	387.1312	486.4107
-1.08144	0.56711	0.92469	403.9962	378.3188
1.07205	0.32547	1.07205	1104.104	1187.563
1.02846	0.72978	1.02846	747.6289	768.5681
1.01247	0.86906	1.01247	911.7761	919.1709
1.11395	0.03535	1.11395	30415.33	34076.06
1.01149	0.90523	1.01149	715.9659	720.5909
1.0768	0.48616	1.0768	666.9575	715.4905
1.07812	0.89768	1.07812	92.96179	105.5557
1.11773	0.37858	1.11773	328.3914	365.5947
1.03729	0.51941	1.03729	3167.434	3287.937
1.00014	0.99983	1.00014	84.26646	83.80782
1.01303	0.97569	1.01303	128.9422	132.8138
-1.12415	0.1742	0.88956	510.8292	453.5356
1.05503	0.46911	1.05503	1259.103	1333.862
1.44474	2.96E-14	1.44474	40312.34	58503.24
-1.00485	0.91326	0.99517	9370.105	9332.848
1.07427	0.20236	1.07427	1895.909	2040.043
-1.04925	0.35732	0.95306	3039.073	2907.496
1.01166	0.87637	1.01166	1921.288	1942.945
-1.05083	0.928	0.95163	106.0372	97.79538
1.12015	0.82086	1.12015	91.74496	108.8803
-1.14717	0.00256	0.87171	4030.089	3508.506
-1.03674	0.61829	0.96456	1901.469	1840.468
1.03316	0.9828	1.03316	31.88525	29.89684
-1.0051	0.90232	0.99492	10994.66	10946.06
1.31721	7.09E-08	1.31721	4086.534	5360.592
-1.09949	0.34413	0.90951	553.0216	502.9634
-1.24431	0.0006	0.80366	1559.294	1252.339
1.02223	0.73311	1.02223	1238.939	1266.417
1.03099	0.79701	1.03099	358.196	370.2097
-1.00618	0.92499	0.99386	2526.531	2528.656
-1.03886	0.68568	0.96259	788.0038	763.1274
1.08872	0.64762	1.08872	257.7176	277.1276
-1.03989	0.5611	0.96164	7171.98	7058.531
-1.09407	0.34895	0.91402	580.0211	533.6381
-1.04915	0.56967	0.95315	725.0411	693.4577
-1.15723	0.05551	0.86413	1267.609	1096.54

2.06225	0.00002	2.06225	4268.111	9519.381
-1.02868	0.91012	0.97212	310.0675	326.2224
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1.59918	0.43736	1.59918	60.39716	98.01201
1.0139	0.80097	1.0139	2619.379	2655.453
1	1	1	23.97301	22.66721
-1.13035	0.49713	0.88468	210.7147	186.4307
-1.14629	0.86967	0.87238	70.81238	59.104
1.00492	0.91948	1.00492	8781.06	8832.898
1	1	1	26.95527	21.52612
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1.02576	0.59427	1.02576	2036.1	2088.463
1.20588	0.06463	1.20588	795.4143	970.129
1.07783	0.15253	1.07783	2894.094	3107.037
1.0026	0.98794	1.0026	401.0797	392.3641
1.01475	0.9071	1.01475	2074.948	2177.661
1.08373	0.31997	1.08373	1135.61	1229.499
1.10016	0.08401	1.10016	3101.41	3423.66
1.08091	0.37843	1.08091	501.8383	542.3181
1.01583	0.93459	1.01583	203.0963	204.8271
1.07051	0.93934	1.07051	57.49665	59.95123
-1.10846	0.18677	0.90215	2807.235	2540.423
1.19649	0.41661	1.19649	151.0241	180.6525
-1.06928	0.74502	0.93521	342.1942	323.5613
-1.02631	0.89702	0.97437	217.1555	213.6826
-1.08624	0.54777	0.92061	564.5974	521.307
1.06404	0.3248	1.06404	1174.6	1250.058
-1.01211	0.90812	0.98803	8774.557	8411.262
-1.07945	0.54083	0.9264	475.0407	439.8238
-1.12961	0.02546	0.88526	5466.225	4812.784
-1.04398	0.57868	0.95788	2697.572	2595.687
-1.16801	0.60675	0.85616	209.2729	189.0331
-1.59228	0.0082	0.62803	766.6837	495.7197
1.02826	0.73753	1.02826	445.9952	458.417
-1.02188	0.8068	0.97859	943.1918	925.5528
1.00862	0.91816	1.00862	1056.489	1065.569
1.04922	0.87065	1.04922	157.753	165.6971
-1.00548	0.93443	0.99455	1635.264	1625.27
1.01169	0.92038	1.01169	1313.427	1321.085
-1.07075	0.90345	0.93393	100.5008	91.67087
-1.02232	0.73819	0.97817	2714.041	2659.086
-1.07644	0.15522	0.92899	55344.26	51003.65
1.01347	0.816	1.01347	1381.403	1398.207
1.33351	0.45671	1.33351	105.8573	136.398
1.13396	0.37236	1.13396	356.1986	398.5639
-1.19706	0.09016	0.83538	941.5627	779.6522
1.01848	0.79765	1.01848	2944.566	3031.626
1.28778	0.10206	1.28778	226.1931	290.2215
1.10221	0.48479	1.10221	5481.466	5728.515
1.01759	0.77376	1.01759	1569.886	1597.466
1.00504	0.97708	1.00504	287.0494	283.7999
-1.0094	0.93522	0.99069	301.2996	298.7743

-1.07784	0.78907	0.92778	184.6888	177.1562
1.04943	0.53431	1.04943	1912.918	1999.416
-1.01755	0.69061	0.98275	5871.886	5776.122
-1.73339	0.0002	0.5769	783.9004	460.9937
-1.06452	0.75003	0.93939	254.2511	243.2151
-1.0138	0.94199	0.98638	354.7136	336.4855
-1.00932	0.88012	0.99077	1212.279	1199.215
1.05507	0.69965	1.05507	355.6627	372.8446
-1.01935	0.77846	0.98101	1038.933	1020.917
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1.01821	0.94703	1.01821	211.0103	216.1737
1.12992	0.39922	1.12992	463.4726	535.3295
-1.82566	1.06E-29	0.54775	3386.409	1851.133
1.01692	0.83132	1.01692	941.269	956.2748
1.17893	0.49042	1.17893	266.0635	317.3947
1.70386	4.75E-07	1.70386	3790.511	6320.843
-1.05897	0.45694	0.94431	809.295	764.8295
-1.0839	0.15564	0.9226	7083.534	6490.187
1.0402	0.64036	1.0402	934.848	971.2119
1.02722	0.69566	1.02722	727.9363	746.4723
1.07897	0.40758	1.07897	898.7714	963.5612
-1.02954	0.73622	0.9713	3109.001	2988.297
1.00788	0.91763	1.00788	718.3631	721.3353
-1.01553	0.95766	0.98471	193.8274	189.4781
-1.0058	0.91462	0.99423	9649.192	9677.853
1.47242	0.0019	1.47242	2495.101	3781.677
1.4243	0.39032	1.4243	126.4905	162.741
-1.06853	0.85135	0.93587	160.1575	148.0013
1.06565	0.58566	1.06565	2366.302	2554.642
-1.09427	0.62136	0.91385	414.3892	366.832
-1.0697	0.87852	0.93484	133.2823	121.773
-1.01191	0.81101	0.98823	1628.745	1609.95
1.14802	0.10787	1.14802	579.5054	662.4439
1.02859	0.68322	1.02859	1224.511	1256.888
1.05089	0.51369	1.05089	1277.186	1344.248
1.07232	0.50168	1.07232	2729.005	2940.996
-1.01609	0.85322	0.98416	1112.974	1099.496
-1.11207	0.83684	0.89923	132.2566	107.502
1.17987	0.11024	1.17987	472.3011	553.2291
1.09433	0.12157	1.09433	3919.359	4268.356
-1.02378	0.81703	0.97677	446.9607	434.4554
1.09982	0.74049	1.09982	178.3899	188.6756
1.16933	0.7146	1.16933	99.85976	121.336
-1.00452	0.96143	0.9955	565.6199	561.1027
-1.01727	0.71357	0.98303	6400.153	6316.472
1.16591	0.1184	1.16591	465.592	545.8106
1.0038	0.94823	1.0038	1018.156	1022.924
1.0238	0.68282	1.0238	3520.409	3606.022
-1.08229	0.38419	0.92397	821.2187	764.7209
-1.03565	0.71965	0.96558	1082.382	1045.555
1.06209	0.38867	1.06209	826.0996	877.4957
-1.11285	0.60541	0.89859	287.2278	256.8391

-1.06137	0.69316	0.94218	449.0642	424.802
1.01758	0.81082	1.01758	4080.333	4166.841
2.99521	0.21223	2.99521	28.92478	91.48969
-1.08425	0.48209	0.9223	1185.78	1111.633
1.08463	0.58098	1.08463	292.0381	316.6521
-1.03052	0.61729	0.97038	1089.168	1058.79
1.12527	0.60619	1.12527	163.6882	183.4084
1.25312	0.0084	1.25312	495.2719	622.2336
-1.00744	0.93564	0.99262	7352.332	7145.574
1.15638	0.20012	1.15638	733.6577	839.0953
1.19855	0.2839	1.19855	257.0143	311.2831
1.13278	0.07781	1.13278	1405.935	1586.422
1.02627	0.64284	1.02627	10992.59	11279.44
-1.05275	0.60788	0.94989	1562.182	1520.663
-1.06884	0.8309	0.93559	172.8933	161.5006
-1.03831	0.681	0.96311	485.3956	465.7991
1.1231	0.05897	1.1231	4137.346	4653.187
-1.02762	0.79755	0.97312	22856.11	21615.41
-1.05946	0.78656	0.94388	209.9827	200.1226
1.05649	0.33421	1.05649	1742.083	1843.555
1.0124	0.911	1.0124	3926.051	4072.103
1.03252	0.72906	1.03252	1279.515	1328.732
1.06439	0.95051	1.06439	38.42677	38.09453
1.08658	0.64642	1.08658	216.2719	236.4245
-1.1199	0.1695	0.89293	1457.59	1317.653
1.02171	0.68021	1.02171	1323.933	1351.011
-1.02282	0.68606	0.97769	1312.914	1280.701
1.13963	0.88873	1.13963	54.25998	57.77548
-1.45136	0.00205	0.68901	9338.489	6183.946
-1.01829	0.85943	0.98204	474.4554	467.509
-1.16523	0.85951	0.8582	55.50543	49.92541
-1.06133	0.47529	0.94221	713.1234	669.4367
-1.0414	0.62997	0.96024	530.9552	509.6349
1.00251	0.96656	1.00251	1347.386	1351.765
-1.25052	0.02197	0.79967	3803.72	3024.714
-1.13252	0.60601	0.88299	256.2115	224.1089
-1.00723	0.97164	0.99283	323.1339	316.0992
1.14607	0.05073	1.14607	2023.38	2341.573
1.18514	0.62446	1.18514	120.2136	142.4148
-1.05505	0.41414	0.94782	3897.217	3692.563
1.16671	0.40614	1.16671	327.7206	368.8389
-1.0474	0.76932	0.95474	343.4761	327.1418
-1.11838	0.38525	0.89415	1955.73	1762.038
-1.04193	0.58847	0.95976	1371.905	1319.632
1.44327	8.36E-11	1.44327	1318.863	1903.355
1.04072	0.7595	1.04072	479.7109	491.7896
-1.08606	0.70973	0.92076	242.6572	223.2327
-1.06413	0.55637	0.93974	466.1269	438.2613
1.02202	0.82837	1.02202	677.0363	694.0595
1.11667	0.08125	1.11667	1497.874	1676.386
-1.21333	0.1278	0.82418	1841.836	1510.862
1.05079	0.78439	1.05079	670.7167	704.7798

-1.02375	0.72307	0.9768	838.1606	818.6371
1.02597	0.82407	1.02597	531.8278	545.614
-1.0234	0.7063	0.97714	1948.226	1918.559
1.20801	0.04262	1.20801	1220.301	1477.273
-1.0099	0.92641	0.9902	610.4168	610.5062
-1.03101	0.51962	0.96993	32256.58	31385.29
-1.07131	0.39466	0.93344	1191.352	1111.001
-1.0078	0.92717	0.99226	230665.5	233921
1.06599	0.35175	1.06599	1726.183	1846.751
1.08801	0.31817	1.08801	493.9525	538.8284
-1.08435	0.91566	0.92221	52.35513	49.90338
1.23954	0.0105	1.23954	1707.566	2106.41
1.04501	0.38543	1.04501	1777.921	1858.454
1.09343	0.32119	1.09343	924.458	1018.437
1.0011	0.99644	1.0011	219.2025	217.8674
1.00566	0.98183	1.00566	193.1364	194.3472
1.1925	0.00186	1.1925	5538.895	6657.691
-1.01909	0.91899	0.98126	291.7586	286.6293
1.00829	0.88781	1.00829	983.8549	992.2843
1.0176	0.88632	1.0176	331.9547	337.8008
1.25061	0.00167	1.25061	3502.149	4395.781
-1.05348	0.61484	0.94924	506.7138	482.9112
1.00308	0.96608	1.00308	1089.167	1095.726
-1.06234	0.41146	0.94132	2723.637	2576.117
1.07069	0.77528	1.07069	186.3646	197.3712
-1.02953	0.6001	0.97131	848.3823	824.0808
-1.04984	0.78372	0.95253	277.286	266.8619
1.28581	0.64312	1.28581	77.05727	102.7673
-1.10316	0.33835	0.90649	743.4734	680.6321
-1.07577	0.88745	0.92956	104.4477	98.14512
-1.31143	0.00739	0.76253	7370.939	5487.222
1.01839	0.96197	1.01839	134.2142	137.0549
1.36907	9.64E-12	1.36907	18148.91	24899.38
-1.08632	0.7833	0.92054	211.3031	186.6957
1.00366	0.96858	1.00366	590.6776	595.9283
1.11362	0.34143	1.11362	386.5031	429.1069
1.34319	0.01073	1.34319	1511.577	2071.376
1.01365	0.85674	1.01365	3279.444	3332.415
1.11132	0.02932	1.11132	1869.825	2078.58
1.04051	0.59855	1.04051	1003.627	1041.858
-1.00534	0.9227	0.99469	5212.558	5164.478
-1.03216	0.70622	0.96884	1148.677	1113.452
1.02883	0.80742	1.02883	547.3854	559.6855
1.13741	0.23131	1.13741	448.5443	506.712
1.10257	0.80581	1.10257	142.6534	164.0975
1.0579	0.66427	1.0579	586.0879	610.5528
-1.14456	0.43459	0.87369	446.6602	384.6944
1.10522	0.73172	1.10522	223.9316	234.4156
-1.15443	0.25963	0.86623	813.1221	713.5531
-1.06991	0.39539	0.93466	4139.927	3843.053
-1.01816	0.67898	0.98217	2535.09	2490.864
-1.01685	0.8889	0.98343	335.6798	330.7778

-1.0274	0.80391	0.97333	393.5596	384.7777
1.10353	0.13049	1.10353	2299.284	2522.903
1.13791	0.1492	1.13791	799.2561	915.8207
-1.4901	0.11165	0.6711	430.3247	310.0886
-1.08209	0.5862	0.92413	382.0659	358.2098
1.07701	0.24393	1.07701	626.6148	674.6129
1.06729	0.18623	1.06729	2073.239	2216.383
1.10178	0.39205	1.10178	415.9412	460.8684
1.16155	0.20606	1.16155	540.2671	619.6525
1.07477	0.3865	1.07477	537.4924	578.5241
1.06261	0.46509	1.06261	967.9592	1023.744
-1.07868	0.94276	0.92706	48.18021	46.89383
-1.00871	0.90808	0.99136	1699.452	1685.417
-1.14639	0.09726	0.8723	827.8407	726.006
1.07853	0.74598	1.07853	156.4138	168.775
1.01454	0.92958	1.01454	215.1003	217.4785
1.02474	0.83794	1.02474	761.3226	770.0623
1.10215	0.90328	1.10215	61.16615	69.23147
-1.07097	0.55607	0.93373	6051.247	5458.974
1.0374	0.66097	1.0374	660.5977	682.2412
1.18316	0.19003	1.18316	332.4139	390.195
1.24135	0.01045	1.24135	1738.487	2162.971
-1.02871	0.56669	0.97209	2779.839	2704.816
1.03502	0.77681	1.03502	298.1354	307.67
-1.07155	0.41713	0.93322	1577.962	1496.82
-1.1814	0.86935	0.84645	52.66547	47.20644
1.05051	0.51982	1.05051	768.0134	805.0057
-1.01711	0.86549	0.98317	577.2234	567.2218
1.14737	0.24721	1.14737	1712.221	1912.983
1.00248	0.97451	1.00248	1200.501	1207.763
1.04067	0.89222	1.04067	190.1733	199.8604
1	1	1	22.91693	22.80349
-1.0546	0.39803	0.94823	4423.34	4220.266
1.09497	0.3882	1.09497	419.5839	456.7965
-1.05391	0.55712	0.94885	1100.481	1055.067
1.38307	0.6744	1.38307	51.97774	78.67532
-1.08313	0.61367	0.92325	422.0195	390.3919
1.08423	0.26844	1.08423	6905.086	7475.789
1.0368	0.66831	1.0368	2986.59	3049.324
1.21623	0.037	1.21623	3432.807	4233.395
1.46182	0.02113	1.46182	421.7423	599.6805
-1.07292	0.50718	0.93203	655.3246	616.4541
-1.00071	0.98701	0.99929	4232.252	4231.504
1.10435	0.82302	1.10435	108.546	129.1685
-1.06955	0.37354	0.93497	1532.111	1427.572
1.02241	0.81656	1.02241	692.2493	702.844
1.07628	0.70648	1.07628	203.6634	219.5765
-1.08404	0.25607	0.92247	1640.268	1518.746
-1.04232	0.37718	0.9594	2761.177	2643.845
-1.03532	0.87252	0.96588	264.5772	254.2551
1.09089	0.09046	1.09089	1449.903	1581.689
1.00365	0.947	1.00365	2221.701	2229.752

1.09313	0.4631	1.09313	438.1692	484.1666
-1.06683	0.49201	0.93736	633.9149	593.2554
-1.23242	0.10454	0.81141	5264.223	4120.2
-1.03436	0.59033	0.96678	3343.261	3224.265
1.51877	0.01704	1.51877	316.0347	463.836
1.08954	0.43382	1.08954	685.7542	738.9406
-1.24016	0.01415	0.80635	3126.805	2524.732
-1.00803	0.91186	0.99204	1257.128	1254.351
1.10606	0.71244	1.10606	166.4444	185.6912
-1.07102	0.18009	0.93369	2336.83	2180.726
-1.20736	0.50861	0.82825	263.7197	234.5205
-1.00093	0.98706	0.99907	6558.612	6550.541
-1.75668	3.21E-06	0.56925	24967.21	13345.76
-1.08209	0.74002	0.92414	229.5321	212.6437
-1.05056	0.38913	0.95188	10428.05	9868.598
-1.05393	0.40104	0.94883	3420.974	3221.89
1.04498	0.37313	1.04498	2883.991	3015.506
1.24078	0.49915	1.24078	138.122	169.666
-1.23838	0.63011	0.8075	140.9477	111.0891
1.17957	0.03119	1.17957	1225.251	1446.919
-1.00332	0.94316	0.99669	1918.282	1912.006
1.0438	0.54367	1.0438	1664.539	1732.113
1.06575	0.43981	1.06575	782.3951	835.4993
1.14031	0.04002	1.14031	1170.311	1334.859
-1.008	0.94319	0.99207	436.4363	434.2272
-1.00592	0.95034	0.99411	2892.08	2895.853
-1.01858	0.78533	0.98176	878.5853	863.98
-1.00856	0.9594	0.99152	370.2092	368.6029
-1.66157	0.3188	0.60184	132.5698	78.37411
1.12606	0.02119	1.12606	2269.506	2552.396
-1.02746	0.61344	0.97327	1320.815	1287.036
-1.0868	0.8218	0.92013	127.0775	117.5447
1.09242	0.82919	1.09242	132.2145	148.4814
1.00974	0.91417	1.00974	820.4827	822.2213
-1.01311	0.86794	0.98706	971.4401	954.9934
1.01741	0.82786	1.01741	675.7999	689.458
-1.04346	0.3594	0.95835	4734.902	4546.132
-1.00717	0.88235	0.99289	4668.773	4650.658
-1.00224	0.9876	0.99777	410.3295	409.9358
-1.05488	0.30409	0.94798	2195.203	2085.218
1.00963	0.88253	1.00963	814.7115	823.886
-1.111	0.80955	0.90009	132.2261	120.852
1.02457	0.76288	1.02457	4189.593	4228.388
1.01593	0.86492	1.01593	1956.242	2009.94
-1.04137	0.90677	0.96027	163.3197	157.4807
-1.11684	0.85251	0.89538	94.29113	86.73331
-1.03737	0.70971	0.96397	885.522	862.7235
-1.11878	0.38078	0.89383	721.7317	655.1768
-1.03623	0.65526	0.96503	1123.544	1079.838
-1.06456	0.85137	0.93935	171.0542	159.1331
-1.065	0.65154	0.93897	465.6688	436.0083
1.05508	0.78503	1.05508	222.9783	232.1291

-1.02111	0.67787	0.97933	1943.636	1902.906
-1.05851	0.72155	0.94472	311.9576	298.2061
1.08716	0.47327	1.08716	373.7252	403.8466
-1.08585	0.48118	0.92094	371.1118	341.9038
-1.06012	0.78228	0.94329	237.1098	224.0882
1.02286	0.71966	1.02286	1507.542	1543.1
-1.05273	0.26011	0.94991	10229.47	9733.104
1.13656	0.00254	1.13656	5311.639	6039.834
1.06002	0.51542	1.06002	2414.622	2584.738
1.05597	0.72127	1.05597	2814.635	2861.033
-1.01422	0.90957	0.98598	492.0686	485.3102
1.18478	0.02263	1.18478	961.5286	1142.287
1.06319	0.2746	1.06319	3108.924	3293.821
1.0052	0.93547	1.0052	1114.258	1120.04
1.28973	0.00094	1.28973	748.1714	963.7872
1.16671	0.11882	1.16671	513.0757	594.3711
1.02906	0.61013	1.02906	1885.596	1944.31
-1.12663	0.09339	0.8876	820.593	727.3656
1.03156	0.8108	1.03156	550.1466	577.1948
1.00548	0.96307	1.00548	2246.271	2258.592
1.01489	0.82849	1.01489	1179.372	1190.649
-1.50218	0.00022	0.6657	7189.447	4593.184
-1.01114	0.89253	0.98898	2215.862	2150.636
-1.00234	0.98584	0.99766	420.4472	423.4612
1.15745	0.00341	1.15745	3713.19	4287.473
-1.03629	0.88215	0.96498	255.7485	237.5563
-1.00834	0.89032	0.99173	1661.351	1645.685
-1.05983	0.43736	0.94355	1035.198	975.8053
-1.04207	0.70605	0.95963	622.3731	603.6599
-1.04856	0.66552	0.95369	706.2722	681.2836
1.04706	0.4934	1.04706	6508.407	6944.17
-1.07851	0.10827	0.9272	5260.243	4872.374
1.48653	0.026	1.48653	195.0033	291.6628
1.13927	0.09077	1.13927	6156.662	7058.585
1.00039	0.99511	1.00039	15961.33	15767.25
-1.07392	0.48409	0.93117	765.6854	717.4135
1.09478	0.36154	1.09478	557.184	606.889
1.07272	0.20593	1.07272	3000.534	3224.552
-5.60654	3.58E-13	0.17836	663.3015	123.234
1.06583	0.40463	1.06583	2199.896	2360.819
-1.08244	0.86053	0.92384	89.34231	81.50529
-1.00112	0.97914	0.99888	2562.406	2559.552
-1.03127	0.59805	0.96967	1863.936	1806.158
1.06367	0.31861	1.06367	3705.771	3937.839
1.058	0.69422	1.058	607.4713	629.8935
-1.07191	0.37593	0.93291	1057.294	993.1477
1.11274	0.33808	1.11274	663.3575	747.07
-1.21239	9.09E-06	0.82482	27815.29	22978.87
1.07337	0.45288	1.07337	1225.031	1310.671
-1.039	0.4093	0.96246	7181.134	6905.445
-1.01612	0.77323	0.98413	1102.272	1085.585
-1.0652	0.65801	0.93879	592.6758	568.1133

1.32264	0.01429	1.32264	41208.63	56818.59
-1.17563	0.28641	0.85061	325.5	275.5972
-1.27884	0.00011	0.78196	7895.323	6121.435
1.01065	0.89526	1.01065	828.8967	842.829
-1.01903	0.76381	0.98132	3945.305	3876.276
1.02696	0.92425	1.02696	172.1786	177.507
1.08712	0.63819	1.08712	275.2156	296.2393
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1	1	1	23.80116	23.08496
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-1.04068	0.83778	0.96091	303.9463	294.0337
-1.09076	0.46321	0.91679	630.9105	586.0303
1.08379	0.54131	1.08379	394.7371	422.8396
-1.02233	0.91239	0.97816	227.5877	219.9061
1.15585	0.70737	1.15585	116.6121	137.7715
-1.07326	0.53308	0.93174	683.6659	644.6987
1.01684	0.95201	1.01684	196.6011	198.5585
-1.1412	0.25682	0.87627	597.0737	527.6413
-1.08818	0.58574	0.91897	391.0598	358.7827
-1.01556	0.81167	0.98468	3288.795	3222.542
1.05623	0.91748	1.05623	108.6452	121.1502
1.03705	0.81058	1.03705	275.067	282.991
1.0636	0.61816	1.0636	359.0694	384.5458
1.05754	0.47755	1.05754	2697.788	2865.489
-1.07891	0.67047	0.92686	280.9711	260.2524
1.21876	0.05267	1.21876	14103.68	17852.82
1.06798	0.61919	1.06798	507.2611	534.8596
-1.00353	0.96798	0.99649	426.2628	424.931
-1.02707	0.73595	0.97365	566.478	552.0542
-1.07727	0.28749	0.92827	1777.446	1646.7
1.19406	0.41685	1.19406	244.8449	283.805
-1.02468	0.66949	0.97592	971.9926	947.8477
-1.00919	0.98215	0.99089	149.2294	139.3038
-1.00323	0.9737	0.99678	2035.676	2011.356
-1.15138	0.00632	0.86853	3596.384	3124.803
1.08959	0.49858	1.08959	419.5619	452.0306
-1.02609	0.84474	0.97457	313.8022	307.623
1.10022	0.55955	1.10022	304.6465	335.5168
-1.16285	0.90012	0.85995	33.95937	26.38389
-1.09904	0.41025	0.90988	594.7634	541.0834
-1.07233	0.49712	0.93255	15486.11	13909.06
-1.12963	0.07683	0.88525	1121.433	995.8158
-1.08995	0.46635	0.91747	612.962	562.7872
-1.03409	0.86673	0.96703	318.2675	304.751
-1.00839	0.89031	0.99168	761.7445	755.363
1.06136	0.21235	1.06136	1401.993	1488.114
-1.02556	0.78922	0.97508	459.9334	448.7881
1.07308	0.96729	1.07308	21.90211	23.26923
1.2061	0.24012	1.2061	1045.783	1266.202
-1.05181	0.77572	0.95075	5352.136	4763.845
1.15058	0.07197	1.15058	1522.748	1755.352
-1.02722	0.64645	0.9735	1361.141	1323.818

-1.06383	0.46631	0.94	1467.28	1371.347
-1.0099	0.83653	0.9902	9239.16	9141.035
-1.11353	0.27092	0.89804	605.5908	543.2769
-1.10963	0.40371	0.9012	456.3665	415.695
1	1	1	22.44605	22.54222
-1.07778	0.58115	0.92783	498.6439	461.0585
1.08745	0.33026	1.08745	835.1175	904.6745
-1.21414	0.03123	0.82363	21159.96	17012.94
-1.0394	0.70935	0.96209	600.8462	581.933
1.02802	0.79972	1.02802	461.5346	471.0754
1.08898	0.67009	1.08898	197.3541	213.9471
-1.08539	0.07171	0.92133	4972.449	4575.725
1.06401	0.26995	1.06401	2807.387	2990.944
1.06668	0.41836	1.06668	5050.261	5446.297
1.01952	0.85129	1.01952	582.8881	592.2407
-1.03045	0.56729	0.97045	21035.47	20500.36
1.45879	0.00836	1.45879	380.8231	545.0378
1.00262	0.96197	1.00262	1435.104	1439.121
-1.15347	0.14552	0.86695	14082.1	11861.98
1.04455	0.62529	1.04455	542.1897	567.8504
1.01918	0.74999	1.01918	1577.985	1608.818
1.09509	0.37886	1.09509	1058.739	1161.144
-1.0324	0.80579	0.96862	689.2477	667.9192
1.11071	0.32733	1.11071	15768.97	17192.84
-1.10351	0.35382	0.9062	1815.8	1655.871
-1.12452	0.11836	0.88927	29806.41	26907.14
-1.03632	0.46608	0.96496	5800.208	5601.75
1.41752	5.85E-09	1.41752	1055.579	1495.67
-1.10725	0.49782	0.90314	448.4157	413.069
-1.07677	0.11375	0.9287	6016.553	5587.305
-1.0748	0.20907	0.93041	2717.629	2519.447
-1.30182	0.00688	0.76816	668.558	516.6235
1.00809	0.86779	1.00809	11710.18	11806.29
-1.02189	0.93294	0.97858	204.2641	206.2982
1.00216	0.97898	1.00216	767.2745	772.7767
-1.07388	0.6215	0.93121	542.9507	503.0122
-1.07805	0.46426	0.9276	603.3951	562.0615
1.08021	0.44825	1.08021	1027.044	1100.959
1.06759	0.47082	1.06759	670.4504	714.341
1.06045	0.72863	1.06045	327.0051	340.1789
1.07848	0.66977	1.07848	309.8955	326.5884
-1.09342	0.42721	0.91456	510.7286	471.3706
-1.05027	0.70551	0.95213	716.6392	693.2404
1.03356	0.84844	1.03356	560.0117	595.9559
1.19677	0.02553	1.19677	4100.058	4927.616
-1.05028	0.47236	0.95213	2169.342	2074.683
1.02111	0.80705	1.02111	1082.618	1107.887
1.02775	0.76297	1.02775	848.6245	870.4866
1.08761	0.5644	1.08761	307.4488	333.4022
-1.15091	0.56991	0.86888	245.0047	215.1175
1.0317	0.50705	1.0317	2123.253	2190.133
-1.01328	0.85354	0.9869	3351.749	3331.407

-1.23613	0.17182	0.80897	13207.42	11018.43
-1.05644	0.3141	0.94657	3848.182	3635.392
1.1068	0.40603	1.1068	397.9355	444.0587
-1.03036	0.89536	0.97053	273.6511	261.8523
1.27996	0.00054	1.27996	1493.203	1918.228
1.06261	0.36959	1.06261	7535.968	8020.294
1.01739	0.82646	1.01739	1069.015	1087.667
-1.01518	0.95595	0.98505	218.7819	211.9405
1.23857	0.00172	1.23857	724.9199	898.2574
1.01753	0.89224	1.01753	309.8789	316.101
1.14697	0.40915	1.14697	235.4184	270.6856
1.07261	0.3594	1.07261	724.0646	777.9679
1.19315	0.12095	1.19315	1005.677	1195.828
-1.0281	0.91065	0.97267	245.6014	242.8104
-1.48049	3.11E-07	0.67545	4060.794	2706.147
1.17421	0.24992	1.17421	362.7004	420.6669
-1.07837	0.58212	0.92733	470.0049	436.1813
-1.00408	0.99082	0.99594	156.1563	153.1961
-1.02224	0.64259	0.97824	3935.424	3850.355
1.09585	0.42948	1.09585	503.1826	557.7434
1.16836	0.03884	1.16836	3689.842	4265.47
1.01626	0.78132	1.01626	1680.479	1706.11
1.00676	0.91943	1.00676	1285.163	1301.299
-1.01049	0.88842	0.98962	2929.139	2941.173
-1.00688	0.89605	0.99317	1456.02	1446.125
1.0498	0.59125	1.0498	478.105	500.6081
-1.19514	0.81126	0.83672	62.86477	51.5811
1.0342	0.79479	1.0342	593.0563	604.33
1	1	1	22.83896	24.09294
-1.0635	0.5532	0.94029	1772.513	1666.488
-1.01101	0.88778	0.98911	1336.45	1319.849
-1.01445	0.8187	0.98575	2874.112	2835.36
-1.16262	0.00034	0.86012	6621.996	5697.923
1.00715	0.87901	1.00715	3277.285	3294.51
-1.03677	0.92912	0.96453	105.539	101.8949
-1.00468	0.93018	0.99535	3531.125	3509.12
-1.14361	0.48514	0.87442	388.3051	323.1686
1.00257	0.9847	1.00257	538.6527	549.9184
-1.02322	0.61867	0.97731	2935.86	2868.569
-1.02079	0.66104	0.97963	6243.015	6105.031
-1.04213	0.6718	0.95957	460.7747	442.3868
-1.09435	0.57551	0.91378	396.0811	360.7479
1.01866	0.75902	1.01866	1082.706	1101.761
-1.01569	0.77637	0.98456	3378.64	3334.126
-1.40041	6.48E-13	0.71408	43873	31256.34
1.02709	0.85583	1.02709	338.0222	349.1791
1.18113	0.00006	1.18113	10199.19	12055.35
-1.06985	0.39369	0.93471	2096.315	1959.266
1.30412	0.02162	1.30412	666.1362	863.465
-1.04989	0.30388	0.95248	3317.904	3159.28
1.05865	0.38787	1.05865	2917.342	3082.311
1.03886	0.69422	1.03886	1334.479	1384.438

1.02165	0.68904	1.02165	1035.054	1058.107
1.02848	0.73629	1.02848	9284.715	9699.754
1.10323	0.3976	1.10323	3669.347	4048.118
-1.01555	0.80039	0.98468	913.0475	899.0921
-1.03056	0.81433	0.97035	550.7026	543.0519
1.10391	0.3126	1.10391	535.0736	594.7098
1.05075	0.52087	1.05075	11735.54	12197.79
1.01824	0.82183	1.01824	576.3062	585.6817
1.07221	0.81242	1.07221	161.1934	173.6842
1.04144	0.6081	1.04144	785.5763	820.4913
-1.17364	0.66384	0.85205	181.1762	168.9966
1.03256	0.79053	1.03256	482.7802	502.1479
-1.17986	0.0246	0.84756	18130.63	15082.39
-1.21365	0.86698	0.82396	43.28835	38.25156
-1.00463	0.91873	0.99539	1951.15	1942.305
1.21083	0.68642	1.21083	70.89242	85.47931
-1.0809	0.75675	0.92515	230.2222	212.3164
1.61616	2.29E-06	1.61616	498.4656	810.7302
1.005	0.91272	1.005	2627.07	2640.814
-1.05684	0.79822	0.94621	256.2886	241.7934
1.09655	0.26548	1.09655	2858.126	3110.124
-1.56697	0.00034	0.63817	709.4539	459.0333
1.05526	0.33743	1.05526	3765.186	3969.363
1.00814	0.93985	1.00814	1463.987	1469.278
1.21059	0.11009	1.21059	509.595	609.3478
-1.10754	0.54792	0.9029	417.2335	377.3412
-1.14237	0.21619	0.87537	7509.904	6323.805
-2.90274	0.14558	0.3445	179.3289	66.18409
-1.03237	0.8827	0.96864	185.0771	180.722
1.14618	0.419	1.14618	427.5579	489.9089
-1.25051	0.0005	0.79967	8085.464	6518.882
1.19673	0.07378	1.19673	999.6195	1191.06
1.32934	0.00487	1.32934	8859.742	12317.94
-1.06095	0.39715	0.94255	786.3325	742.0068
-1.2036	0.03144	0.83084	1445.265	1196.6
-1.01823	0.90409	0.9821	302.8023	299.9093
-1.3007	0.06192	0.76881	748.95	586.3796
-1.02389	0.76953	0.97667	895.9491	874.3648
1.19211	0.71684	1.19211	78.71311	91.85749
-1.01211	0.81928	0.98803	47359.92	46973.04
1.02116	0.63716	1.02116	30295.52	30896.97
-1.05426	0.2589	0.94854	5166.29	4890.656
-1.07026	0.48048	0.93436	582.8689	545.8958
1.01907	0.92867	1.01907	302.7289	304.2383
1.0649	0.48139	1.0649	445.0206	473.5496
1.02516	0.75757	1.02516	1008.997	1027.277
-1.00598	0.94162	0.99405	2479.887	2468.647
-1.16065	0.00275	0.86159	39032.68	33804.75
-1.02614	0.73576	0.97452	541.9505	528.8284
-1.09045	0.24801	0.91705	2383.101	2183.027
1.14558	0.17486	1.14558	635.6019	721.8132
1.00839	0.90664	1.00839	668.7703	673.3583

1.00069	0.98792	1.00069	1662.68	1663.224
1.41116	3.50E-06	1.41116	1564.856	2216.08
1.05777	0.19903	1.05777	5645.862	5970.299
-1.00768	0.92022	0.99238	1345.702	1331.985
1.06121	0.70542	1.06121	412.1861	440.4956
1.00781	0.92973	1.00781	2242.136	2293.897
1.05453	0.40033	1.05453	1180.125	1241.665
1.00489	0.98023	1.00489	388.5926	400.7598
1.00124	0.99613	1.00124	212.1647	214.0235
1.0403	0.87653	1.0403	276.8123	297.5239
-1.03974	0.82126	0.96178	276.5945	264.7378
1.01039	0.87384	1.01039	4384.8	4441.298
-1.01531	0.91537	0.98492	390.8689	384.4508
-1.15412	0.00101	0.86646	3239.278	2807.094
-1.15775	0.06502	0.86375	1154.671	1004.975
1.02491	0.66364	1.02491	1056.477	1082.833
1.33571	1.15E-06	1.33571	1018.876	1357.454
1.01666	0.92853	1.01666	292.1191	296.3019
-1.04481	0.8491	0.95711	263.0487	254.1439
-1.04945	0.33179	0.95288	3143.479	2987.906
1.04729	0.34516	1.04729	4494.935	4715.266
1.16068	0.4066	1.16068	389.3937	438.7784
-1.27092	0.40585	0.78683	221.1344	171.6865
1.06149	0.7437	1.06149	227.2227	241.0065
1.20933	0.6669	1.20933	107.5041	123.2263
1.01427	0.82359	1.01427	1917.369	1944.164
1.06033	0.69374	1.06033	268.3748	286.082
1.01763	0.70061	1.01763	6143.266	6253.936
-1.07442	0.94728	0.93073	44.31425	38.44975
1.05154	0.59234	1.05154	802.6846	847.2695
1.07629	0.6576	1.07629	295.9484	315.4431
1.02871	0.57683	1.02871	2060.55	2118.587
1.01274	0.85627	1.01274	2443.105	2476.07
1.2776	0.01349	1.2776	767.7506	988.1122
-1.0167	0.811	0.98358	1008.341	988.7824
1.20424	0.19022	1.20424	330.6402	393.4023
-1.47623	0.04527	0.6774	444.6684	309.0237
1.14032	0.03711	1.14032	21526.86	24914.42
1.03953	0.40393	1.03953	5138.878	5328.234
-1.10881	0.74706	0.90186	123.2712	110.7816
1.2221	0.76596	1.2221	69.9389	85.81891
1.04202	0.59785	1.04202	2116.027	2183.979
-1.0291	0.82251	0.97173	316.0666	307.0023
1.14932	0.90539	1.14932	34.88953	35.49056
-1.36623	5.87E-06	0.73194	4913.254	3562.595
-1.01155	0.81093	0.98859	1348.744	1332.99
1.02383	0.94731	1.02383	113.8244	115.2637
1.33529	0.00008	1.33529	1303.717	1734.529
-1.20079	0.40189	0.83278	289.1499	239.7772
1.12068	0.07196	1.12068	3313.074	3721.669
1.01893	0.76456	1.01893	32452.65	32633.32
1.02402	0.94748	1.02402	128.1639	127.5695

-1.05679	0.94053	0.94626	75.91155	69.37412
1.02857	0.67507	1.02857	10953.25	11251.27
1.03098	0.82809	1.03098	875.4897	893.8863
1.00907	0.85547	1.00907	2068.514	2086.055
1.16088	0.3841	1.16088	345.4518	393.0583
-1.12427	0.85332	0.88947	91.33063	80.29624
1.16507	0.51654	1.16507	142.7889	166.5143
1.00058	0.99426	1.00058	477.5804	478.3585
1.19503	0.23633	1.19503	310.9159	374.9852
1.00256	0.96112	1.00256	3154.377	3161.789
-1.35389	0.77477	0.73861	54.10685	39.10857
-2.12002	6.85E-21	0.47169	4052.237	1925.743
-1.00083	0.99075	0.99917	666.429	665.5331
-1.20512	0.51991	0.82979	155.0016	130.7226
1.03716	0.61678	1.03716	1833.048	1902.452
1.08115	0.3965	1.08115	448.5416	485.0794
1.20812	0.06831	1.20812	527.6141	633.0234
-1.10629	0.33124	0.90392	460.0128	413.8174
-1.0441	0.83124	0.95777	356.4333	350.7629
1.04953	0.25924	1.04953	2465.729	2587.627
1.12462	0.14399	1.12462	1759.428	1981.937
1.19174	0.33293	1.19174	183.236	218.7159
1.00145	0.98831	1.00145	1057.856	1052.479
-1.01439	0.97889	0.98581	103.6466	99.506
1.42062	0.63704	1.42062	54.23936	70.57226
-1.13449	0.47045	0.88146	444.882	400.8458
1.01404	0.836	1.01404	1064.087	1079.009
1.07129	0.43136	1.07129	486.6325	519.6592
-1.02071	0.81384	0.97971	1830.374	1799.476
1.05673	0.60982	1.05673	683.9981	730.4613
1.02732	0.75079	1.02732	7407.092	7440.882
-1.54764	2.58E-14	0.64614	11125.82	7234.419
1.06285	0.60485	1.06285	461.8234	485.7944
-1.05029	0.71511	0.95212	417.504	397.8933
1.05552	0.81041	1.05552	153.3119	161.9789
1.00637	0.90481	1.00637	1644.588	1654.546
-1.0621	0.75927	0.94153	347.7383	324.2938
-1.01284	0.84432	0.98732	2074.678	2046.839
-1.07789	0.53332	0.92774	500.7329	464.726
-1.07684	0.34417	0.92864	3654.829	3382.493
-1.10934	0.17126	0.90143	1976.021	1773.763
1.05953	0.4832	1.05953	2402.629	2496.333
-1.00674	0.93477	0.9933	2177.475	2164.709
1.45744	0.00443	1.45744	575.5122	826.3712
-1.05872	0.59781	0.94454	630.0789	599.602
1.0024	0.96631	1.0024	1495.513	1498.814
-1.02867	0.72595	0.97213	4813.779	4687.099
1.09091	0.09914	1.09091	3848.684	4184.21
1.19848	0.13833	1.19848	20906.71	24255.19
1.06903	0.84978	1.06903	160.6873	177.7059
-1.10448	0.80469	0.9054	145.1664	134.803
-1.05911	0.65458	0.94419	695.106	666.8565

1.53759	0.00782	1.53759	923.8593	1430.957
1.3517	0.38615	1.3517	125.9876	178.7389
1.13812	0.85984	1.13812	59.8362	73.02908
-1.08868	0.30617	0.91855	867.5884	799.1887
-1.04718	0.48448	0.95494	1266.717	1211.94
1.01129	0.87778	1.01129	911.5056	924.4248
-1.08378	0.37275	0.9227	470.9717	435.5299
-1.02314	0.74798	0.97739	2809.215	2747.325
-1.04847	0.80159	0.95377	305.6721	291.4722
1.01709	0.72115	1.01709	2068.642	2104.332
1.01851	0.71987	1.01851	2447.531	2496.417
1.06415	0.43639	1.06415	2339.445	2482.406
1.01365	0.78187	1.01365	1738.584	1762.288
1.07671	0.17839	1.07671	9631.726	10444.03
-1.05062	0.6402	0.95182	609.8898	585.2098
-1.02805	0.59022	0.97272	1737.937	1690.825
1.02466	0.84035	1.02466	14818.08	15803.48
-1.02679	0.63696	0.97391	1552.622	1512.999
-4.61741	0	0.21657	22387.48	4823.283
1.03624	0.68278	1.03624	1281.266	1324.483
1.18176	0.01964	1.18176	999.4534	1177.352
1.4016	6.04E-12	1.4016	3267.743	4588.651
1.00267	0.95837	1.00267	3018.742	3016.728
1.24043	0.04041	1.24043	1020.468	1260.877
1.07608	0.80901	1.07608	163.7661	171.4752
-1.10561	0.25753	0.90448	1208.819	1106.189
1.19309	0.38248	1.19309	166.4654	197.31
1.12197	0.77825	1.12197	134.4514	158.1691
-1.01462	0.84763	0.98559	865.8632	849.0575
-1.07415	0.22334	0.93097	6179.328	5697.197
-1.07076	0.23986	0.93392	1742.313	1628.543
-1.16195	0.01481	0.86062	1202.482	1033.914
-1.20631	0.19151	0.82898	524.97	443.2067
-1.46005	1.16E-06	0.68491	34802.88	24232.23
-1.03864	0.92818	0.9628	127.6436	122.8588
1.03478	0.41271	1.03478	5256.083	5437.598
-1.00441	0.93189	0.99561	4723.535	4697.776
-1.002	0.9791	0.998	1559.538	1559.19
1	1	1	21.53102	21.55668
-1.04706	0.55875	0.95506	1322.519	1266.766
1.07982	0.37961	1.07982	9257.358	10154.55
1.22992	0.69494	1.22992	56.87312	69.49191
1.02029	0.89	1.02029	249.8993	255.8622
-1.02033	0.70134	0.98007	8568.084	8412.143
1.01214	0.88452	1.01214	2373.585	2422.291
1.04932	0.77261	1.04932	283.2531	297.2866
-1.00055	0.99246	0.99945	5140.349	5142.693
1.11625	0.53585	1.11625	324.2421	363.6097
-1.04841	0.58073	0.95382	1055.599	1011.61
1.04892	0.62874	1.04892	818.523	851.9475
1.18679	0.35162	1.18679	331.993	381.3668
1.03515	0.69718	1.03515	2874.961	2956.968

-1.1061	0.537	0.90408	794.6437	735.2355
-1.03861	0.50421	0.96283	6135.078	5904.844
1.07465	0.33632	1.07465	1127.831	1216.724
-1.14145	0.00148	0.87608	6556.087	5742.143
1.05861	0.68218	1.05861	262.482	278.3809
1.24596	0.69565	1.24596	87.45689	96.68111
1.10102	0.67759	1.10102	207.0481	222.5281
1.01051	0.80384	1.01051	4422.464	4469.037
-1.11294	0.04891	0.89852	1754.923	1575.741
-1.04562	0.58915	0.95637	1060.89	1023.053
-1.05068	0.68691	0.95177	389.7383	372.4142
1.10242	0.05234	1.10242	2316.058	2552.744
-1.05019	0.71496	0.9522	530.5487	510.8479
1.193	0.02748	1.193	1261.625	1502.897
1.41481	8.00E-06	1.41481	5304.678	7667.542
-1.62282	0.02688	0.61621	2625.267	1502.669
1.00099	0.99008	1.00099	620.6259	621.4728
1.04314	0.6628	1.04314	2329.693	2467.098
1.06244	0.19341	1.06244	4211.834	4469.369
-1.02333	0.8059	0.9772	612.7076	602.7734
1.07919	0.83228	1.07919	122.1802	135.3235
-1.58911	2.14E-08	0.62928	29847.76	18422.41
-1.09049	0.14806	0.91702	1837.832	1689.492
-1.01749	0.80173	0.98281	4981.917	4915.931
1.7398	2.43E-07	1.7398	2709.084	4650.798
-2.05637	0	0.48629	60233.67	29257.46
1.00415	0.97451	1.00415	329.8995	331.9927
1.00355	0.96977	1.00355	819.5732	828.3184
-1.04385	0.44139	0.95799	2070.926	1994.366
1.0109	0.86832	1.0109	3461.492	3549.356
1.00527	0.97917	1.00527	293.454	292.9328
1.31182	0.01676	1.31182	425.4998	553.3442
1.04673	0.49006	1.04673	1224.093	1280.354
1.10489	0.45778	1.10489	1325.609	1477.575
-1.00518	0.90462	0.99484	4888.385	4862.015
1.18713	0.03845	1.18713	583.5691	691.4037
1.01938	0.68272	1.01938	1694.151	1726.981
-1.06517	0.64658	0.93882	357.6149	335.8251
-1.00088	0.99494	0.99913	442.9125	450.0871
-1.09062	0.22702	0.91691	791.471	723.4867
-1.06082	0.63422	0.94267	16294.7	14798.46
1.00378	0.93247	1.00378	3676.824	3690.884
1.00502	0.92946	1.00502	5413.401	5419.351
1.19726	0.40991	1.19726	204.3384	239.6051
1.41505	5.76E-07	1.41505	2732.72	3865.108
-1.01702	0.88005	0.98327	405.1747	400.0617
-1.14375	0.4134	0.87431	495.0747	426.2997
1.0393	0.51325	1.0393	1911.37	1987.358
-1.09044	0.13171	0.91706	2899.053	2659.351
1.03124	0.68972	1.03124	1400.178	1439.416
1.09768	0.11247	1.09768	8585.128	9508.646
1.02078	0.71585	1.02078	5639.062	5781.997

-1.03049	0.48646	0.97042	3834.984	3721.864
-1.09079	0.40908	0.91676	505.5946	466.5326
1.20899	0.05533	1.20899	5147.156	6295.661
1.00421	0.97352	1.00421	1235.446	1248.29
1.67251	1.08E-08	1.67251	811.7052	1356.846
1.08288	0.58963	1.08288	380.67	419.7646
1.13526	0.74691	1.13526	121.7663	136.5756
1.19898	0.09567	1.19898	1768.769	2150.661
1.01601	0.8492	1.01601	4146.79	4151.272
-1.03079	0.71352	0.97013	2600.977	2511.323
-1.00956	0.83698	0.99053	3327.392	3291.983
1.11941	0.13694	1.11941	549.9424	615.0243
-1.03312	0.76277	0.96794	657.8929	640.0521
1.17292	0.02127	1.17292	1227.749	1438.752
-1.03496	0.53196	0.96622	3582.32	3460.013
1.00573	0.95802	1.00573	764.4875	767.2424
-1.00208	0.97195	0.99792	2603.221	2591.771
-1.06498	0.7613	0.93899	343.2419	326.0522
-1.32798	0.01124	0.75303	1225.927	929.916
-1.03689	0.59305	0.96443	6864.412	6522.264
-1.18044	0.14192	0.84714	6083.815	4963.14
-1.12446	0.07991	0.88931	1502.779	1334.675
-1.13436	0.57428	0.88156	266.3766	240.4981
1.01361	0.81723	1.01361	2305.217	2329.143
-1.003	0.97816	0.99701	765.2758	761.2822
1.02849	0.70454	1.02849	3016.503	3108.141
1.01994	0.95971	1.01994	139.7008	144.7775
1.00836	0.90324	1.00836	1410.667	1420.655
1.02195	0.8473	1.02195	727.4437	752.8864
-1.03783	0.72697	0.96355	462.8165	445.9484
-1.0144	0.94253	0.98581	194.7235	193.4757
-1.05752	0.80831	0.94561	193.4915	182.8878
1.01316	0.80341	1.01316	1680.786	1703.245
1.06213	0.42463	1.06213	1972.912	2073.725
1.05952	0.5208	1.05952	581.6179	617.8793
-1.23338	0.24551	0.81078	498.8741	397.726
-1.13591	0.08798	0.88035	911.0153	803.559
-1.31547	0.00161	0.76018	2023.407	1523.829
-1.02516	0.82452	0.97546	369.7835	361.2437
1.0471	0.77982	1.0471	228.5641	239.3447
-1.0212	0.77605	0.97924	1993.997	1929.627
1.02895	0.67231	1.02895	1120.043	1150.171
-1.11978	0.22534	0.89303	1863.267	1672.44
1.04121	0.83552	1.04121	198.6746	206.8347
1.02189	0.9379	1.02189	178.6204	182.0151
-1.08553	0.50365	0.92121	715.3267	657.6002
1.00231	0.96357	1.00231	1156.356	1158.42
1.10199	0.69801	1.10199	186.3637	206.2473
-1.02926	0.63389	0.97157	2106.658	2045.015
-1.10187	0.66917	0.90755	267.2346	240.8085
1.03964	0.55352	1.03964	623.3486	647.8711
1.31775	0.00084	1.31775	19271.96	24912.46

1.01381	0.81626	1.01381	9910.814	10037.29
1.00765	0.87501	1.00765	4058.72	4088.4
-1.06352	0.22886	0.94027	10747.36	10127.59
-1.02631	0.64501	0.97436	1257.114	1224.893
-1.02133	0.72872	0.97912	2181.637	2132.295
-1.01638	0.74672	0.98388	1234.664	1214.616
1.06592	0.38568	1.06592	977.6399	1046.036
1.04218	0.61832	1.04218	712.9471	739.7404
1.18411	0.66326	1.18411	97.72497	116.7024
-1.00333	0.96572	0.99668	2589.075	2584.441
-1.04359	0.4924	0.95823	1656.912	1594.38
1.02996	0.73007	1.02996	734.1475	752.3928
-1.54291	3.77E-10	0.64813	8695.018	5560.187
1.03064	0.56917	1.03064	1400.994	1444.912
1.03966	0.54848	1.03966	987.2448	1023.431
1.38296	0.00154	1.38296	684.2595	955.0292
-1.02813	0.77304	0.97264	1642.065	1612.147
1.1122	0.08235	1.1122	1828.072	2030.46
1.57929	0.00539	1.57929	471.6727	736.2404
-1.04397	0.45379	0.95788	7856.283	7498.94
1.02643	0.61628	1.02643	3998.501	4118.065
1.19314	0.11596	1.19314	422.8796	501.7191
-1.26116	0.00073	0.79292	4159.141	3314.942
-1.26927	0.14752	0.78785	863.6503	685.8018
1.11201	0.36921	1.11201	403.9841	445.6703
-1.19497	0.04148	0.83684	772.2621	647.1102
1.31748	0.15084	1.31748	344.8248	446.9875
-1.02788	0.68713	0.97287	903.9887	881.6134
-1.15421	0.42693	0.8664	376.9148	326.3748
-1.23987	0.04379	0.80654	1189.959	963.7954
1.12094	0.11094	1.12094	17131.56	19410.42
-1.02426	0.6526	0.97631	1381.669	1348.898
1.11732	0.09076	1.11732	1279.637	1430.014
1.03642	0.65006	1.03642	4039.572	4244.717
1.06598	0.64748	1.06598	300.593	318.2
1.00845	0.90119	1.00845	1003.778	1010.843
-1.08764	0.4765	0.91942	420.8713	386.9641
1.08249	0.26763	1.08249	2215.672	2420.475
1.05393	0.4407	1.05393	3138.826	3287.082
1.02256	0.77805	1.02256	897.5509	921.6947
-1.52996	1.85E-08	0.65361	16373.36	10805.3
1.02868	0.96027	1.02868	91.89059	94.59431
-1.05381	0.39781	0.94893	1859.303	1763.418
1.03868	0.44033	1.03868	1755.177	1825.104
-1.0959	0.80209	0.91249	162.0202	144.152
1.05465	0.3646	1.05465	1035.827	1092.586
1.2018	0.13213	1.2018	716.7344	849.8436
1.32909	0.00792	1.32909	1085.144	1441.026
-1.16801	0.03303	0.85616	5403.995	4562.547
-1.05656	0.40397	0.94647	752.8336	713.3368
1.27752	0.08792	1.27752	536.4512	671.213
-1.74937	1.23E-08	0.57164	3391.81	1892.175

1.12341	0.26447	1.12341	529.7852	598.9149
1.01271	0.82541	1.01271	7780.043	7960.991
-1.08488	0.32497	0.92176	848.6591	777.5647
1	1	1	23.21103	22.03233
1.00376	0.93814	1.00376	1455.281	1461.078
1.04878	0.25403	1.04878	9113.609	9559.903
1.00671	0.95294	1.00671	887.8462	904.5411
1.00706	0.95375	1.00706	398.3271	397.8416
1.09909	0.17767	1.09909	1618.507	1786.835
1.20492	0.00112	1.20492	2537.77	3072.398
-1.06565	0.92596	0.9384	76.89138	73.00983
-1.09392	0.47422	0.91415	1138.165	1042.336
1.15373	0.33575	1.15373	378.6615	429.0753
-1.12808	0.57483	0.88647	358.5013	319.1415
1.04684	0.6228	1.04684	456.7587	478.2033
-1.00262	0.96611	0.99738	927.5493	926.6734
1.12641	0.14357	1.12641	69064.81	78979.31
1.21698	0.0069	1.21698	731.1628	888.2306
1.07969	0.80981	1.07969	175.9754	194.7312
-1.13652	0.00849	0.87988	6352.408	5575.839
-1.24443	0.78558	0.80358	73.0725	59.47835
-1.03987	0.78982	0.96166	382.2593	372.162
-1.05924	0.46018	0.94407	2076.212	1972.845
1.01789	0.88082	1.01789	1049.379	1057.316
1.17163	0.49649	1.17163	158.9474	184.5782
1.26643	0.01784	1.26643	3570.842	4643.784
-1.26237	0.01066	0.79216	3362.083	2616.835
-1.34583	0.00608	0.74303	2918.344	2132.796
1.07666	0.39252	1.07666	493.2076	531.8388
1.21341	0.01884	1.21341	1081.452	1313.474
-1.02721	0.54811	0.97351	2902.774	2827.402
1.16568	0.03285	1.16568	1555.548	1805.731
-1.03338	0.8636	0.9677	256.5508	249.7815
1.27018	0.02323	1.27018	1683.113	2112.751
-1.02384	0.65228	0.97671	1441.292	1407.849
1.10372	0.25103	1.10372	4220.884	4694.917
-1.03406	0.7313	0.96706	2943.99	2857.901
-1.01849	0.70751	0.98185	103560.8	101240.2
-1.05509	0.46473	0.94778	1268.425	1208.037
-1.02036	0.88921	0.98004	291.959	285.355
1.12277	0.12052	1.12277	1660.909	1867.559
1.0253	0.6539	1.0253	2110.666	2169.784
1.01658	0.81399	1.01658	1856.4	1896.093
1.02065	0.91598	1.02065	294.198	302.2681
-1.40321	0.00824	0.71265	704.9377	510.0511
-1.04886	0.71009	0.95342	371.1837	355.445
-1.04322	0.60568	0.95857	1223.61	1171.312
-1.06439	0.47136	0.93951	3143.49	2923.416
-1.16207	0.09522	0.86053	4168.599	3671.749
1.00789	0.96086	1.00789	344.845	342.0147
1.03901	0.4797	1.03901	6553.983	6830.68
1.00316	0.96758	1.00316	621.3985	624.536

1.23665	0.09233	1.23665	1097.312	1356.336
1.02313	0.91556	1.02313	256.7704	261.7307
1.02766	0.75276	1.02766	837.5387	857.4495
1.12014	0.2853	1.12014	3333.012	3658.109
1.46216	0.02458	1.46216	617.214	883.4977
-1.00273	0.97997	0.99728	677.6546	671.3938
1.01684	0.88586	1.01684	10103.51	9917.15
1.13804	0.01094	1.13804	6661.862	7570.463
-1.00266	0.95999	0.99734	1102.483	1098.93
-1.11425	0.2493	0.89747	865.772	772.0587
1.06851	0.18379	1.06851	1434.882	1533.008
-1.08852	0.17178	0.91868	1138.834	1046.573
1.08956	0.81454	1.08956	133.1045	144.0025
-1.03193	0.82021	0.96905	361.9395	350.5804
-1.00532	0.98486	0.99471	144.2218	144.9173
-1.02657	0.62679	0.97412	1512.455	1473.072
-1.1054	0.46136	0.90465	590.6142	532.129
1.4472	0.00058	1.4472	1666.277	2434.637
-1.04493	0.96239	0.957	56.86086	54.60753
-1.18142	0.89278	0.84644	33.72932	25.47491
1.08163	0.46545	1.08163	956.4766	1027.579
1.30969	0.40775	1.30969	126.5634	160.8438
-1.03056	0.55815	0.97034	1700.399	1650.425
-1.2504	0.13615	0.79975	870.7797	709.7777
-1.0179	0.91923	0.98241	372.7228	368.5261
1.01843	0.8342	1.01843	2416.429	2517.725
1.05019	0.63453	1.05019	448.0966	472.8038
-1.06839	0.36236	0.93599	73158.41	67674.92
1.08597	0.34876	1.08597	13711.77	15296.66
1.07159	0.81565	1.07159	133.2622	140.6025
1.00997	0.84383	1.00997	1469.558	1485.463
-1.00569	0.92956	0.99434	5520.629	5501.157
-1.50582	0.00003	0.66409	5886.26	3823.019
-1.06231	0.76862	0.94134	258.6205	249.1653
1.07471	0.73697	1.07471	192.3125	205.8877
-1.65989	0.00059	0.60245	9461.68	5335.438
1.0383	0.80336	1.0383	363.4686	371.191
1.10371	0.59687	1.10371	275.269	297.2029
-1.00934	0.97869	0.99074	120.3993	122.048
-1.09066	0.27652	0.91687	1712.936	1563.327
1.04561	0.40275	1.04561	2937.566	3061.668
-1.13971	0.2974	0.87741	911.9846	805.0044
1.03569	0.64761	1.03569	2536.473	2620.918
1.08879	0.20375	1.08879	5479.241	5985.943
-1.0787	0.74296	0.92704	226.4917	210.8495
-1.00678	0.95361	0.99327	471.9157	473.0452
1.03544	0.68159	1.03544	900.0821	925.2866
1.23927	0.71797	1.23927	73.07707	91.63657
-1.22487	0.00007	0.81641	15553.73	12631.72
-1.005	0.92401	0.99503	2221.545	2209.265
1.08963	0.295	1.08963	3203.767	3553.745
1.01424	0.93648	1.01424	319.4069	321.621

-1.10853	0.41795	0.90209	603.0065	544.1194
1.06058	0.95589	1.06058	48.86086	47.37064
-1.12397	0.51119	0.8897	410.2441	357.0911
1.33991	0.00048	1.33991	1160.932	1549.948
1.34594	2.77E-07	1.34594	6443.946	8700.184
1.08241	0.54271	1.08241	14407.73	15055.63
1.02099	0.92009	1.02099	200.7663	204.6782
-1.04017	0.61215	0.96138	2120.701	2033.163
-1.21537	0.54579	0.8228	176.1497	151.8189
-1.12782	0.23373	0.88667	3620.048	3244.677
-1.16629	0.16326	0.85742	811.8635	695.9177
-1.08553	0.69135	0.92121	315.8094	287.6906
-1.13601	0.02284	0.88027	4010.141	3545.4
1.10336	0.42284	1.10336	403.2617	440.5933
-1.14552	0.90023	0.87296	49.65712	43.47406
1.31663	0.01445	1.31663	612.2473	796.791
-1.09173	0.57692	0.91598	534.4558	502.0102
-1.05243	0.53752	0.95018	4337.984	4200.803
-1.18426	0.09851	0.84441	1771.973	1487.254
-1.02699	0.96749	0.97372	90.35719	83.40125
-1.00457	0.94856	0.99545	3714.468	3706.696
-1.08527	0.37049	0.92143	1422.869	1305.79
-1.05283	0.62011	0.94982	748.4143	717.5177
-1.10529	0.8842	0.90474	84.709	73.06914
-1.03917	0.6667	0.96231	1320.961	1265.804
1.11363	0.45125	1.11363	424.1668	473.4775
1.02536	0.76521	1.02536	729.5035	750.772
1.01572	0.83154	1.01572	3010.722	3054.913
1.01561	0.79015	1.01561	2587.975	2631.93
-1.0265	0.65204	0.97419	1915.544	1862.328
1.01884	0.68073	1.01884	3237.049	3297.465
-1.00273	0.97335	0.99728	1895.5	1890.461
-1.02155	0.73011	0.97891	1581.922	1549.521
1.53677	0.00015	1.53677	1534.99	2389.688
-1.00546	0.9396	0.99457	1787.697	1766.331
-1.04568	0.44796	0.95631	1543.794	1476.317
1.01541	0.9315	1.01541	290.6108	293.2975
-1.11702	0.14296	0.89524	1219.072	1092.234
1.07454	0.09601	1.07454	13052.89	14030.47
-1.04507	0.3306	0.95687	10405.26	9947.962
-1.02799	0.68699	0.97277	2140.258	2092.591
-1.19665	0.089	0.83567	7224.489	5946.269
-1.08574	0.37178	0.92103	838.1469	777.6735
1.05753	0.36995	1.05753	1189.823	1262.133
1.0117	0.8204	1.0117	3611.83	3652.26
1.25102	0.37187	1.25102	187.4457	229.1223
-1.32404	0.10315	0.75527	378.4201	291.2429
-1.05013	0.45827	0.95226	1025.469	979.191
-1.41566	9.21E-11	0.70638	4505.491	3169.291
1.09327	0.61787	1.09327	319.0468	340.7344
1.06797	0.42005	1.06797	545.8456	582.5256
-1.13207	0.14973	0.88334	1726.137	1517.594

-1.06577	0.86049	0.93828	158.7211	151.9006
1.00703	0.93399	1.00703	57806.39	59590.68
-1.0644	0.54332	0.9395	4561.423	4210.8
-1.05698	0.70854	0.9461	334.2452	317.0159
1.0299	0.84794	1.0299	539.2323	556.8973
1.36642	2.75E-06	1.36642	887.8886	1214.418
-1.03267	0.60366	0.96836	9639.614	9262.294
1.01732	0.78827	1.01732	917.2238	930.9327
1.43333	0.00027	1.43333	2074.022	3023.886
1.04934	0.72398	1.04934	425.8593	440.1512
-1.01554	0.78106	0.98469	3225.638	3188.221
-1.04607	0.47084	0.95596	1759.094	1680.69
1.12854	0.09954	1.12854	651.2753	735.3746
-1.07248	0.43285	0.93242	2293.726	2191.625
1.0488	0.40399	1.0488	1571.565	1646.479
1.02949	0.76348	1.02949	1939.841	1967.83
-1.02865	0.6964	0.97215	904.4351	876.5526
-1.08806	0.37126	0.91907	579.4216	533.0801
-1.037	0.51822	0.96432	1579.871	1525.581
-1.16349	0.42586	0.85949	496.9314	411.4536
1.01208	0.88737	1.01208	2462.783	2489.498
-1.02335	0.87075	0.97718	1678.876	1655.94
1.04452	0.64918	1.04452	996.494	1030.258
-1.0053	0.91886	0.99473	1910.92	1905
1.06468	0.34598	1.06468	2997.08	3188.98
-1.01483	0.90822	0.98539	412.9554	408.368
-1.03322	0.81429	0.96785	805.8631	791.8488
1.01177	0.93939	1.01177	312.9706	313.6
-1.00072	0.98785	0.99928	3502.297	3503.774
-1.28937	0.00997	0.77557	4534.823	3449.635
-1.04062	0.78189	0.96096	418.3602	401.2318
1.17883	0.00239	1.17883	2991.586	3536.472
-1.23545	0.0719	0.80942	580.7743	474.7421
1.33972	0.00009	1.33972	3339.06	4432.377
1.03542	0.84813	1.03542	328.873	342.3257
1	1	1	25.1229	19.66459
-1.06905	0.40384	0.93541	2163.806	2041.109
-1.08362	0.34481	0.92284	622.304	572.8739
-1.35972	1.42E-08	0.73544	1873.305	1377.037
1.00632	0.97473	1.00632	246.9817	244.7404
1.10125	0.41218	1.10125	568.8536	634.1896
-1.15998	0.34051	0.86208	537.4177	469.5599
1.11701	0.14383	1.11701	732.0021	816.3041
-1.13717	0.04051	0.87938	3505.579	3070.109
-1.21096	0.59045	0.82579	169.1707	140.0978
-1.08737	0.31503	0.91965	1325.038	1224.056
1.1454	0.29183	1.1454	592.0269	672.493
1.05845	0.30815	1.05845	2735.732	2886.425
-1.04021	0.68983	0.96134	1715.301	1639.753
-1.23737	0.00617	0.80816	5921.183	4856.624
1.03369	0.6197	1.03369	1160.792	1200.91

1.08999	0.43855	1.08999	2536.048	2703.012
-1.01457	0.9381	0.98564	340.1115	336.7892
1.02457	0.81825	1.02457	805.1246	817.4011
-1.01233	0.87064	0.98782	1025.61	1010.284
-1.07174	0.64084	0.93306	375.059	350.4938
-1.01558	0.78122	0.98465	4697.404	4636.611
-1.04189	0.82312	0.9598	686.2371	658.6481
-1.00823	0.85883	0.99184	2704.546	2682.601
1.09118	0.60736	1.09118	298.6545	326.646
-1.02927	0.90025	0.97156	192.6461	186.0989
1.04979	0.68214	1.04979	580.2449	601.3377
1.03552	0.64523	1.03552	845.2191	872.5984
1.02092	0.61652	1.02092	34026.31	34708.5
1.22964	0.00029	1.22964	3599.724	4452.776
1.10251	0.08164	1.10251	2316.636	2549.076
-1.02809	0.74995	0.97267	644.3776	626.136
-1.03599	0.93114	0.96526	137.6174	135.8739
-1.11498	0.10899	0.89687	5355.824	4828.978
1.01292	0.8005	1.01292	3256.749	3299.835
1.49546	6.71E-10	1.49546	5152.139	7802.742
1.03809	0.84652	1.03809	248.0019	252.9789
-1.05181	0.4692	0.95074	1259.813	1196.926
1.01172	0.89781	1.01172	597.9946	602.072
1.04974	0.50702	1.04974	2046.902	2171.304
-1.10857	0.20403	0.90206	1278.143	1160.06
1.07149	0.49802	1.07149	1275.815	1366.219
-1.05523	0.39058	0.94766	2986.556	2819.564
-1.04702	0.53042	0.95509	1834.252	1751.703
1.09616	0.56704	1.09616	282.966	306.9868
-1.05303	0.42356	0.94964	2453.536	2318.364
1.03733	0.64234	1.03733	1084.751	1123.184
-1.11571	0.19553	0.89629	1122.314	1010.613
1.06128	0.64821	1.06128	814.3712	875.6036
-1.12043	0.53569	0.89252	322.8205	289.1655
1.05342	0.54847	1.05342	592.2559	622.3148
-1.1642	0.34199	0.85896	359.9411	309.3187
-1.13154	0.3377	0.88375	624.634	553.6024
-1.14721	0.52297	0.87168	343.2201	286.1237
1.13121	0.01157	1.13121	1448.828	1638.93
-1.03907	0.79325	0.9624	344.416	335.2282
-1.01445	0.85977	0.98576	675.6516	663.0322
1.00155	0.97657	1.00155	2626.932	2627.392
1.0496	0.65108	1.0496	566.4528	589.5366
1.11439	0.37703	1.11439	442.718	492.2781
-1.03712	0.91746	0.96421	182.1507	162.1446
-1.16895	0.18704	0.85547	1027.623	885.3147
-1.06849	0.67143	0.9359	322.564	301.9489
1.06514	0.6593	1.06514	896.7437	964.807
-1.06061	0.60652	0.94286	542.5365	511.7671
1.01457	0.88373	1.01457	934.5907	945.9851
-1.04401	0.48743	0.95785	2578.043	2469.419
1.15241	0.8733	1.15241	45.09756	52.18297

1.01194	0.9201	1.01194	1227.291	1238.831
1.16443	0.08574	1.16443	2478.136	2868.764
1.40634	0.50172	1.40634	79.99959	107.7163
2.03652	1.13E-16	2.03652	2815.202	5819.996
1.07429	0.43134	1.07429	853.5211	911.6926
-1.14011	0.80279	0.87711	117.6479	99.16666
1.01408	0.90651	1.01408	494.3061	495.6893
1.04174	0.371	1.04174	2111.389	2199.249
1.08522	0.60428	1.08522	1267.374	1374.038
-1.08538	0.71862	0.92133	269.5861	246.7698
1.03415	0.7531	1.03415	602.499	617.726
1.46589	0.00947	1.46589	626.0073	903.739
1.29331	0.00907	1.29331	1109.959	1435.175
1.4641	1.46E-10	1.4641	7767.064	11428.91
-1.03231	0.91574	0.9687	194.45	183.7472
-1.00523	0.90655	0.9948	7811.728	7763.387
-1.13221	0.67957	0.88323	211.576	178.1502
-1.00489	0.94978	0.99513	3570.879	3582.496
-1.02402	0.59747	0.97654	12337.01	12079.98
1.02475	0.87683	1.02475	302.9688	314.2086
1	1	1	22.67855	20.96468
1.01086	0.84687	1.01086	6950.391	6976.416
1.22301	0.00812	1.22301	849.9381	1039.921
-1.02865	0.81687	0.97214	2271.079	2165.754
-1.10706	0.40727	0.90329	400.0164	361.2654
1.20726	0.01463	1.20726	948.9523	1142.737
-1.02952	0.53956	0.97132	1867.854	1814.109
-1.02183	0.65683	0.97864	1872.416	1832.678
-2.32226	3.57E-30	0.43062	27520.33	11724.38
-1.04633	0.54477	0.95572	1805.198	1728.425
-1.73483	1.37E-09	0.57643	1153.52	665.9405
-1.00006	0.99947	0.99994	1404.355	1398.029
1.12164	0.3657	1.12164	444.9003	492.5169
1.04548	0.54068	1.04548	1627.179	1702.005
1.08674	0.79909	1.08674	163.9529	188.9978
1.38958	0.3677	1.38958	103.9088	141.2365
1.05473	0.51896	1.05473	8753.678	9376.436
-1.05301	0.44746	0.94965	1236.789	1175.061
-1.04281	0.46683	0.95895	8256.957	7857.938
-1.01565	0.81909	0.98459	1110.375	1094.611
1.3138	0.0242	1.3138	415.7684	540.4667
-1.0919	0.20485	0.91584	1928.465	1763.754
1.11983	0.02263	1.11983	2159.948	2421.347
1.01148	0.85655	1.01148	2087.433	2112.665
-1.02946	0.67616	0.97138	1926.613	1868.131
-1.05904	0.82207	0.94425	239.2166	223.5308
-1.00245	0.95378	0.99756	4504.083	4493.79
1.01623	0.80405	1.01623	992.2189	1009.528
1.31657	6.68E-07	1.31657	6597.239	8729.944
1.10328	0.12753	1.10328	9740.496	10808.53
-1.33369	5.56E-12	0.7498	10577.46	7928.401
-1.06307	0.16075	0.94067	3699.521	3478.645

1.04853	0.93674	1.04853	84.59109	88.1127
-1.10187	0.06829	0.90755	26295	24047.75
1.02327	0.94117	1.02327	133.4085	136.454
1.04498	0.69246	1.04498	1138.671	1187.578
-1.03088	0.66878	0.97004	4215.89	4112.268
-1.04168	0.69411	0.95998	779.634	747.6525
-1.11362	0.4111	0.89797	477.4188	429.313
1.00483	0.95366	1.00483	3000.706	3001.359
-1.1052	0.86687	0.90481	94.96957	86.93961
1.00884	0.8731	1.00884	1323.376	1336.126
-1.0312	0.66348	0.96974	1134.336	1099.908
1.08241	0.39428	1.08241	563.0446	608.4039
-2.11507	0.00071	0.4728	421.7891	209.0342
1.07624	0.50895	1.07624	394.8874	422.5729
1.05591	0.60067	1.05591	3908.064	4079.922
1.05921	0.57395	1.05921	800.3212	842.272
1.00053	0.99574	1.00053	1035.309	1036.569
-1.00301	0.97095	0.99699	1646.064	1638.432
-1.03034	0.92714	0.97056	190.5075	194.3624
1.19714	0.13891	1.19714	571.9172	694.6684
1.08942	0.07926	1.08942	2311.184	2516.938
-1.28384	0.04432	0.77891	1207.711	944.8991
-1.04575	0.56644	0.95625	6487.409	6130.397
-1.03108	0.80015	0.96986	486.1776	477.0724
-1.06649	0.87121	0.93766	141.5262	133.2554
1.03976	0.7856	1.03976	307.8579	321.4866
1.03647	0.6875	1.03647	1672.198	1729.755
-1.0336	0.80775	0.96749	315.7863	306.7296
1.04784	0.78448	1.04784	289.3439	298.6149
1.81524	0.62381	1.81524	26.25064	51.18998
1.24601	0.16683	1.24601	239.6405	296.5681
-1.19165	0.42939	0.83917	321.4323	268.1545
1.05545	0.45928	1.05545	1849.366	1950.6
-1.01575	0.86534	0.98449	746.5431	729.8314
-1.12159	0.04081	0.89159	1253.489	1118.211
1.02893	0.79047	1.02893	819.224	853.1553
1.13857	0.62115	1.13857	149.3142	167.8572
-1.0691	0.19957	0.93536	1627.547	1524.14
1.09392	0.25722	1.09392	5423.812	5966.843
1.00298	0.95115	1.00298	5367.945	5382.706
1.0002	0.99723	1.0002	1236.753	1238.605
-1.04632	0.67437	0.95573	793.6605	766.5958
-1.17926	0.01493	0.84799	2509.35	2117.81
-1.14194	0.02559	0.8757	14313.64	12602.39
1.03844	0.58675	1.03844	13558.14	13943.55
-1.00207	0.97374	0.99794	1425.667	1417.951
-1.00139	0.99703	0.99861	104.7748	105.7079
-1.1248	0.35175	0.88905	612.1723	543.4584
1.03563	0.92162	1.03563	148.9878	154.8054
-1.00577	0.95117	0.99427	423.1271	421.373
1.018	0.86217	1.018	1512.559	1536.427
1.1004	0.12375	1.1004	3592.053	3949.708

1.28647	0.0001	1.28647	1019.726	1314.472
1.00451	0.9507	1.00451	1145.485	1148.266
1.0196	0.70388	1.0196	1864.635	1900.803
-1.27021	0.67421	0.78727	131.4969	101.9215
1.09216	0.16199	1.09216	2873.838	3160.941
-1.00608	0.93389	0.99396	2024.536	2012.336
-1.01886	0.6766	0.98149	2305.052	2262.074
1.00453	0.96693	1.00453	594.6597	594.8018
1.0609	0.16239	1.0609	14656.76	15568.65
-1.17924	0.01727	0.848	5188.381	4338.153
1.2299	0.83686	1.2299	42.18876	50.43482
-1.03286	0.51771	0.96818	1363.772	1321.216
-1.02254	0.61536	0.97796	5066.444	4954.737
1.30932	0.00068	1.30932	25528.98	32835.64
1.14527	0.6873	1.14527	161.8571	189.4254
-1.10568	0.58433	0.90442	224.2528	201.5304
-1.18782	0.01913	0.84188	1078.196	912.4437
1.00269	0.99254	1.00269	219.9276	225.7637
1.1019	0.34787	1.1019	420.1979	461.5097
1.01547	0.96101	1.01547	150.9849	152.7648
-1.14548	0.68425	0.873	202.8924	168.3291
1.00784	0.92202	1.00784	592.95	596.7554
1.07354	0.39499	1.07354	3064.239	3295.181
1.04455	0.70124	1.04455	7685.589	8027.948
-1.02957	0.57633	0.97128	1581.735	1535.394
1.00993	0.91553	1.00993	2037.951	2067.004
1.00427	0.92763	1.00427	2736.723	2746.004
-1.01089	0.84424	0.98923	4034.038	3967.329
-1.17219	0.2538	0.85311	830.0256	706.423
1.00433	0.94173	1.00433	2811.99	2831.054
-1.01981	0.87028	0.98057	598.2784	591.8654
-1.01524	0.90718	0.98499	439.7174	438.3568
1.15041	0.37915	1.15041	476.8923	530.1592
1.26312	0.00129	1.26312	16820.59	21578.22
1.02648	0.82153	1.02648	587.5496	595.6987
1.11252	0.04818	1.11252	5687.361	6378.478
1.00978	0.92061	1.00978	747.0429	760.7291
1.02354	0.63461	1.02354	2190.333	2240.636
-1.0761	0.31417	0.92928	5848.836	5383.378
-1.13314	0.38547	0.88251	255.4916	225.8806
1.15559	0.05856	1.15559	1438.636	1655.737
-1.11538	0.37401	0.89655	509.8667	460.6538
1.09296	0.83366	1.09296	123.9749	128.9966
1.04761	0.78553	1.04761	243.3548	256.6585
-1.27109	0.17292	0.78673	487.6828	378.1709
1.01444	0.84621	1.01444	13180.17	13096.24
1.00428	0.99142	1.00428	121.1227	121.6835
-1.04343	0.83568	0.95838	309.2331	294.8247
-1.02686	0.68335	0.97384	1651.877	1611.321
-1.08016	0.16096	0.92579	3064.18	2823.811
1.40696	0.00855	1.40696	14630.43	21462.02
-1.00222	0.96135	0.99779	3091.335	3083.894

-1.08457	0.48028	0.92202	2171.659	1967.808
-1.06532	0.89324	0.93869	125.4692	112.4686
-1.00942	0.9311	0.99066	645.287	643.1594
1.00967	0.89767	1.00967	879.0726	889.6096
-1.01313	0.76397	0.98704	3714.711	3667.463
-1.39148	3.19E-06	0.71866	5278.816	3854.834
1.04764	0.54098	1.04764	881.423	928.5863
1.42441	0.04807	1.42441	316.7622	447.2311
1.01833	0.84465	1.01833	716.1266	725.1331
-1.49922	4.49E-09	0.66702	2200.961	1460.96
1.02932	0.81042	1.02932	557.1068	565.7571
1.05814	0.4809	1.05814	1053.703	1117.553
1.04029	0.44358	1.04029	9730.813	10163.3
-1.01629	0.92767	0.98397	259.8399	255.9193
-1.0547	0.89741	0.94814	137.2118	132.2155
-1.01591	0.7466	0.98434	6920.3	6816.286
1.04108	0.53885	1.04108	2103.999	2181.119
-1.13063	0.43948	0.88447	475.8197	424.714
-1.01032	0.90818	0.98978	716.5261	713.9143
-1.00814	0.98238	0.99193	155.2932	151.0868
-1.01565	0.8166	0.9846	1381.018	1364.023
-1.12075	0.18668	0.89226	947.254	850.1022
-1.01615	0.90056	0.98411	699.423	677.3538
1.08248	0.49017	1.08248	373.2512	402.424
-1.04643	0.58513	0.95563	2317.159	2208.077
1.03636	0.54083	1.03636	1502.985	1558.012
-1.06676	0.76915	0.93742	297.6505	274.0819
-1.00831	0.9671	0.99176	335.6697	339.2529
1.00239	0.97985	1.00239	7052.321	6935.946
1.01485	0.80979	1.01485	1665.843	1694.532
-1.19468	0.01314	0.83705	15467.83	13088.79
1.02322	0.82634	1.02322	659.8537	681.858
-1.29765	9.58E-09	0.77063	10267.39	7896.849
-1.10045	0.59981	0.90872	351.0218	317.9635
1.06369	0.49513	1.06369	1170.169	1250.88
-1.07	0.67972	0.93458	356.498	332.0642
1.06516	0.5267	1.06516	592.4279	630.0707
1.0689	0.17155	1.0689	13037.04	13973.67
1.06828	0.40311	1.06828	1004.117	1072.932
1.10561	0.20088	1.10561	609.0767	671.2297
-1.096	0.12726	0.9124	772.1111	704.3698
1.01905	0.90658	1.01905	351.4529	363.7492
1.29747	9.24E-06	1.29747	18177.02	23719.93
-1.34786	0.00505	0.74192	1857.572	1366.179
1.03481	0.6448	1.03481	1776.591	1842.779
1.03863	0.75292	1.03863	470.6906	484.9092
1.05421	0.50649	1.05421	899.1892	947.3049
1.12916	0.04828	1.12916	1917.327	2169.657
-1.09887	0.69856	0.91002	250.2145	229.959
1.17691	0.05093	1.17691	2350.803	2799.243
-1.05964	0.49455	0.94372	2598.814	2507.807
1.0361	0.55769	1.0361	1741.728	1805.147

1.04634	0.45524	1.04634	1168.582	1223.544
-1.04912	0.54042	0.95318	1218.998	1164.429
-1.03534	0.64208	0.96587	2804.023	2700.903
-1.00336	0.93827	0.99666	1005.196	1005.227
-1.14055	0.1882	0.87677	636.492	561.7283
1.06618	0.37222	1.06618	636.7981	679.1354
-1.07649	0.3149	0.92895	1542.998	1447.623
-1.1012	0.28874	0.9081	2958.428	2739.897
-1.01078	0.9243	0.98933	472.7799	471.5046
1.09074	0.63922	1.09074	344.999	379.5916
1.09362	0.20609	1.09362	10156.56	11187.8
1.04533	0.60865	1.04533	989.5127	1033.719
-1.10502	0.43856	0.90496	684.2222	620.4291
-1.10847	0.44293	0.90215	452.8669	407.9816
1.04435	0.67353	1.04435	788.1469	820.4697
-1.26028	0.77202	0.79348	77.47571	59.69898
-1.03784	0.74763	0.96354	544.6883	530.7315
1.01438	0.97119	1.01438	145.3785	152.2806
1.05921	0.62308	1.05921	1290.959	1359.565
1.01783	0.73396	1.01783	1732.207	1763.771
1.0139	0.87642	1.0139	508.2975	513.9868
-1.0505	0.82372	0.95193	277.5439	266.9008
1.07983	0.26785	1.07983	9958.715	10851.26
1.01429	0.79434	1.01429	2503.422	2538.949
1.42862	1.37E-11	1.42862	1519.135	2170.652
1.01836	0.78498	1.01836	1682.263	1712.61
1.0664	0.47288	1.0664	704.8956	746.7006
1.21465	0.86826	1.21465	38.00738	42.06448
-1.02857	0.5413	0.97222	2224.29	2162.905
1.04181	0.60672	1.04181	1530.959	1597.08
1.0459	0.42576	1.0459	7096.547	7446.389
-1.10776	0.71114	0.90273	223.8634	205.7944
1.16592	0.66784	1.16592	106.0573	125.9184
1.03231	0.86297	1.03231	228.5454	234.1077
1.01647	0.82176	1.01647	1644.26	1670.146
1.00496	0.93916	1.00496	6073.91	6102.031
1.09361	0.50132	1.09361	484.3278	538.9053
1.0512	0.63368	1.0512	3855.885	4066.201
-1.00322	0.961	0.99679	1724.238	1715.773
1.2286	0.01474	1.2286	4647.551	5633.921
1.28088	0.53519	1.28088	98.40201	125.4659
1.2193	0.78893	1.2193	54.50232	62.82689
1.01835	0.77876	1.01835	2331.217	2369.397
-1.03431	0.66784	0.96683	1383.102	1336.947
1.05349	0.37724	1.05349	21541.23	22840.86
1.13782	0.12025	1.13782	6989.495	8122.542
1.10504	0.07568	1.10504	1399.453	1546.472
-1.00856	0.8914	0.99151	1285.007	1269.783
2.23394	3.95E-09	2.23394	1918.121	4468.445
1.33764	7.67E-08	1.33764	1590.95	2129.748
-1.14162	0.28067	0.87595	774.3797	677.1282
-1.006	0.9869	0.99403	138.1978	131.9435

-1.00889	0.90399	0.99118	2187.088	2192.522
-1.01661	0.85711	0.98367	844.095	835.4036
-1.11847	0.12857	0.89408	1419.178	1266.436
1.07204	0.52505	1.07204	9218.994	9969.776
1.0814	0.71573	1.0814	197.6776	210.7452
1.24504	0.0049	1.24504	940.7078	1170.414
-1.03321	0.92743	0.96785	127.8808	124.0812
1.02836	0.70275	1.02836	858.9835	880.3417
1.7796	1.09E-07	1.7796	40018.59	74653.23
-1.06588	0.64815	0.93819	548.7781	512.2186
-1.06355	0.72309	0.94025	366.4241	346.431
-1.01889	0.97421	0.98146	97.04876	93.16901
1.02243	0.85295	1.02243	383.1099	391.9557
1	1	1	23.19594	24.61576
1.0214	0.85787	1.0214	789.6113	798.2822
-1.07141	0.64252	0.93335	325.8748	303.652
-1.10395	0.42714	0.90584	449.0375	408.9688
1.00556	0.93407	1.00556	2020.438	2030.436
-1.26917	0.00819	0.78792	1158.052	920.8918
-1.00307	0.9628	0.99694	3793.348	3751.594
1.24193	0.00002	1.24193	1362.378	1691.884
1.05151	0.40313	1.05151	10429.16	11012.52
1.04784	0.30216	1.04784	8389.042	8794.584
1.05756	0.84306	1.05756	189	192.0736
1.06901	0.36187	1.06901	935.911	1001.767
-1.06778	0.86263	0.93652	106.4921	101.2139
-1.21167	0.00781	0.82531	5329.935	4515.532
1.02868	0.71125	1.02868	960.3905	986.5881
1.11718	0.15173	1.11718	694.1614	773.8829
1.1459	0.40452	1.1459	332.4439	379.2036
1.12875	0.60347	1.12875	347.2728	391.6307
1.06328	0.44592	1.06328	2035.939	2161.014
-1.00703	0.9262	0.99302	689.4194	682.2573
-1.04135	0.7676	0.96029	324.5021	311.7626
-1.00035	0.99854	0.99965	176.2321	176.2003
1.04613	0.6801	1.04613	696.806	725.6838
-1.01262	0.90782	0.98754	439.4847	433.9872
-1.51356	2.47E-07	0.66069	2791.606	1821.099
-1.44225	0.15493	0.69336	460.222	315.3365
-1.01068	0.84638	0.98943	1483.568	1467.733
-1.03434	0.63785	0.9668	2201.044	2121.253
-1.0257	0.85187	0.97494	422.5204	411.6907
-1.10116	0.50656	0.90813	382.7471	348.0129
1.03601	0.8079	1.03601	345.0172	358.7058
1.26355	4.80E-08	1.26355	6195.136	7831.965
1.18986	0.02542	1.18986	1689.55	1994.406
-1.06108	0.87345	0.94244	111.7105	103.7538
-1.11511	0.15222	0.89677	4253.934	3756.182
-1.06274	0.35415	0.94096	1018.5	961.601
-1.00625	0.95469	0.99379	350.4997	347.5613
-1.1735	0.0105	0.85215	4435.05	3767.216
-1.02347	0.74099	0.97707	1697.6	1666.785

-1.10247	0.92579	0.90706	46.54506	41.75582
1.09429	0.46444	1.09429	29444.13	34168.2
-1.03603	0.75399	0.96522	518.2835	499.4955
-1.1846	0.00055	0.84417	7657.056	6493.29
1.06364	0.55203	1.06364	387.1431	413.1993
1.16765	0.04569	1.16765	3480.755	4102.587
1	1	1	22.67566	20.13318
-1.03614	0.59922	0.96512	757.0734	731.863
1.051	0.70233	1.051	371.8198	387.1321
1.22554	0.14368	1.22554	1101.686	1350.163
-1.09274	0.91145	0.91513	71.05781	63.00132
-1.0516	0.93573	0.95093	88.55761	84.49327
1.14069	0.09244	1.14069	2254.878	2578.744
-1.55393	0.0085	0.64353	468.3416	308.9143
1.05663	0.33593	1.05663	2131.886	2253.455
1.0351	0.763	1.0351	1044.247	1080.201
1.02552	0.90689	1.02552	200.9353	209.2276
1.4151	0.01217	1.4151	2050.767	3018.258
1.11814	0.06112	1.11814	3780.345	4214.549
-1.04729	0.45898	0.95485	1420.922	1359.9
1.07525	0.4969	1.07525	449.6379	483.7399
-1.01939	0.72791	0.98097	2013.435	1977.03
1.04545	0.71537	1.04545	522.9158	541.3981
-1.11195	0.57773	0.89932	451.1488	392.5721
1.02082	0.67289	1.02082	2379.057	2427.701
1.00501	0.94568	1.00501	743.4757	745.5612
1.00661	0.98799	1.00661	83.55139	85.48481
1.05393	0.46332	1.05393	4095.338	4336.532
-1.0203	0.75141	0.98011	5086.794	5034.164
1.07497	0.24385	1.07497	1075.164	1154.983
1.28302	0.00267	1.28302	15701.04	19803.72
1.05989	0.55709	1.05989	437.6504	461.6882
-1.13843	0.32339	0.8784	598.6369	535.038
1.16545	0.72698	1.16545	111.8273	128.7684
-1.02834	0.89252	0.97244	234.2509	227.8163
1.05504	0.64053	1.05504	343.7332	361.2781
1.04741	0.78471	1.04741	367.6911	383.9258
1.06357	0.27577	1.06357	1202.943	1281.206
1.13377	0.07869	1.13377	601.3878	681.299
1.00632	0.94902	1.00632	620.5282	629.2816
1.06514	0.3141	1.06514	3532.056	3768.852
-1.15141	0.18377	0.8685	690.9753	603.9014
-1.08806	0.25032	0.91907	3222.201	2933.475
-1.00734	0.92342	0.99271	2189.789	2167.542
-1.00059	0.99387	0.99941	609.1692	610.6056
-1.06836	0.1304	0.93601	3038.945	2844.29
-1.01223	0.96204	0.98792	235.6249	219.6563
-1.0585	0.28212	0.94473	3040.208	2862.826
-1.02274	0.69864	0.97776	30521.95	30075.14
1.03997	0.70415	1.03997	463.8586	485.5219
-1.0159	0.78644	0.98435	1410.859	1390.473
1.0014	0.98522	1.0014	967.0792	967.1747

1.02314	0.75047	1.02314	1585.994	1622.413
-1.01468	0.91904	0.98553	425.5843	426.886
1.02784	0.7542	1.02784	745.2659	762.3565
1.03424	0.74037	1.03424	621.1769	644.4644
1.01006	0.9326	1.01006	311.6154	314.9164
1.19011	0.12423	1.19011	544.0856	640.2661
-1.01046	0.97926	0.98965	118.2455	112.7784
1.01139	0.94439	1.01139	285.3019	292.1603
1.17543	0.44314	1.17543	219.6072	263.4359
-1.02787	0.9441	0.97288	145.6311	138.6212
1.06463	0.33523	1.06463	3227.435	3423.012
-1.09487	0.3834	0.91335	694.7714	628.34
-1.03695	0.69699	0.96436	2051.913	1983.542
1.28166	0.19527	1.28166	221.0467	282.911
-1.01157	0.90822	0.98856	794.8737	781.2903
1.14888	0.14772	1.14888	610.262	698.2775
-1.01994	0.74092	0.98045	1765.391	1730.21
1.20186	0.11383	1.20186	324.3107	390.094
-1.02356	0.95955	0.97698	122.6469	123.8049
-1.01441	0.72418	0.9858	11002.94	10847.63
-1.07674	0.31189	0.92873	1977.558	1822.502
1.07642	0.28331	1.07642	1700.751	1832.875
-1.01336	0.90089	0.98682	660.4751	658.7418
-1.06764	0.21583	0.93664	3497.024	3266.093
-1.11059	0.54822	0.90043	313.3434	281.4887
-1.00646	0.99636	0.99358	27.28926	24.98
-1.18444	0.32125	0.84428	471.9309	390.1617
1.07017	0.67166	1.07017	348.7415	374.942
-1.1236	0.2805	0.89	1283.456	1145.123
1.2508	0.0496	1.2508	1045.903	1303.203
-1.1907	0.00258	0.83984	3458.731	2895.085
1.05426	0.30318	1.05426	1546.078	1630.221
-1.11952	0.42891	0.89324	417.9148	379.0527
-1.12112	0.5801	0.89196	205.757	185.4964
-1.01791	0.93505	0.9824	242.8096	242.7246
-1.03638	0.68465	0.9649	701.8264	680.1234
-1.05455	0.56438	0.94827	2398.018	2234.157
-1.01467	0.76259	0.98554	4327.882	4258.075
-1.00214	0.99481	0.99786	192.8538	202.318
1.24934	0.01015	1.24934	6956.243	8836.915
1.01971	0.81419	1.01971	497.4218	507.741
1.0867	0.55738	1.0867	431.5056	475.7532
1.02269	0.83099	1.02269	1588.497	1613.546
-1.01551	0.94788	0.98473	159.4002	158.3562
1.12875	0.25806	1.12875	816.6432	914.5821
1.15255	0.26351	1.15255	668.2507	760.2528
-1.0122	0.87387	0.98794	1344.565	1333.646
1.23445	0.00318	1.23445	673.1079	832.5386
1.19395	0.02975	1.19395	4535.393	5543.007
-1.05851	0.35497	0.94473	2177.532	2058.169
-1.02273	0.83638	0.97777	1710.582	1667.363
-1.17187	0.42828	0.85333	425.1754	356.9141

1.03651	0.66178	1.03651	146313.4	156251.8
-1.00878	0.94372	0.9913	466.838	463.0797
1.0642	0.42692	1.0642	561.0343	597.4094
1.04903	0.36238	1.04903	2148.554	2257.727
1.06547	0.7127	1.06547	518.9448	554.31
1.05446	0.44738	1.05446	1830.481	1922.683
1.14378	0.15299	1.14378	5930.749	6661.611
-1.10849	0.2715	0.90213	690.7295	627.4336
1.00807	0.92895	1.00807	652.0057	653.3696
-1.00384	0.96148	0.99617	880.2388	873.8281
-1.07276	0.82214	0.93217	184.7632	169.0956
-1.05167	0.59758	0.95087	680.7991	651.3316
-1.01475	0.88288	0.98546	795.3369	789.0857
-1.1266	0.69297	0.88762	197.8935	173.267
-1.05187	0.50736	0.95069	805.4182	764.4822
1.03672	0.64008	1.03672	12514.84	12713.46
-1.01763	0.89221	0.98267	280.8577	275.3506
-1.09578	0.65092	0.91259	313.8846	286.4476
1.09651	0.18778	1.09651	1731.13	1898.74
1.21988	0.00387	1.21988	1648.971	2015.039
-1.0933	0.83025	0.91466	137.615	124.3006
1.0778	0.45325	1.0778	3744.438	4065.404
1.06913	0.46021	1.06913	623.6522	662.3787
-1.00382	0.97776	0.99619	389.8907	392.0375
1.03239	0.94246	1.03239	115.4267	119.9531
1.01745	0.92685	1.01745	242.2065	247.7798
1.06106	0.47839	1.06106	602.6904	641.4116
1.05365	0.49299	1.05365	2694.165	2846.505
-1.09404	0.19422	0.91404	3387.053	3111.816
-1.25504	0.04732	0.79679	3305.521	2610.541
-1.04626	0.83792	0.95578	248.1784	237.6556
1.01384	0.84953	1.01384	972.0181	986.2157
1.01526	0.88051	1.01526	1950.708	1953.021
1.01945	0.80921	1.01945	1902.802	1950.007
-1.00284	0.95013	0.99717	5765.321	5746.243
-1.15026	0.67841	0.86937	160.4016	138.9232
1.07217	0.26709	1.07217	4757.822	5071.996
-1.14955	0.00723	0.8699	1926.177	1677.074
-1.12147	0.49088	0.89169	440.7945	390.829
1.06635	0.71423	1.06635	337.2341	350.3499
1.06703	0.45723	1.06703	1546.314	1651.698
-1.08199	0.65069	0.92422	394.2319	361.3419
1.03303	0.76668	1.03303	666.7861	681.0792
-1.03212	0.59279	0.96888	3197.147	3116.352
1.02862	0.72675	1.02862	1915.14	1967.741
1.18356	0.7174	1.18356	114.4459	131.0443
1.01005	0.89215	1.01005	11582.07	11562.84
1.0572	0.41117	1.0572	10285.33	10790.94
1.00074	0.9949	1.00074	537.441	543.5858
-1.17724	0.21645	0.84945	451.8645	388.7794
1.07734	0.32639	1.07734	6821.637	7455.332
1.04324	0.62798	1.04324	1273.08	1324.834

1.00212	0.96415	1.00212	2675.406	2681.457
1.06619	0.42785	1.06619	792.9196	848.2914
-1.05296	0.97869	0.9497	22.56142	22.32698
-1.08353	0.36192	0.92291	16820.88	15808.88
-1.09224	0.77485	0.91555	202.5413	180.77
1.04935	0.36993	1.04935	2303.607	2423.104
-1.07212	0.43918	0.93273	1291.721	1221.839
-1.05656	0.18364	0.94646	5486.634	5192.371
1.00449	0.95316	1.00449	2220.084	2224.212
1.08218	0.73746	1.08218	170.2825	183.1785
-1.03456	0.83805	0.96659	227.7918	221.3913
-1.07441	0.53727	0.93075	807.6986	759.4071
-1.16866	0.10515	0.85568	1298.405	1111.225
1.23831	0.05248	1.23831	720.2307	901.0763
-1.01243	0.81998	0.98772	5639.828	5561.308
1.11672	0.30276	1.11672	485.1568	538.3929
1.04085	0.56696	1.04085	1364.471	1420.264
-1.03601	0.63358	0.96524	2282.927	2188.26
1.09198	0.09552	1.09198	15478.78	16927.37
-1.05617	0.61575	0.94681	511.4205	488.3414
-1.00318	0.94881	0.99683	2264.689	2256.783
1.27112	0.01258	1.27112	2868.267	3581.91
1.02	0.95526	1.02	144.4247	141.3597
1.25223	0.02231	1.25223	13472.32	17477.22
1.19463	0.16674	1.19463	686.6514	811.264
-1.08501	0.39612	0.92165	714.0792	658.2045
1.03221	0.83069	1.03221	337.9498	346.5772
-1.02341	0.89193	0.97713	349.4165	342.9624
1.01389	0.78459	1.01389	1202.23	1218.397
1.07148	0.69794	1.07148	238.2162	258.2852
1.0443	0.38558	1.0443	2543.443	2654.65
1.20468	0.00138	1.20468	1808.94	2185.888
-1.11973	0.55254	0.89308	321.9932	285.7928
1.02939	0.71899	1.02939	652.8976	669.6653
1.19281	0.01841	1.19281	1587.044	1884.771
-1.04237	0.57033	0.95936	955.4381	918.3567
1.01628	0.76363	1.01628	13425.28	13670.73
-1.05812	0.25555	0.94507	6540.368	6155.602
-1.01787	0.75866	0.98244	1409.431	1383.623
-1.57155	0.00003	0.63632	112571	73487.52
1.31479	0.16636	1.31479	265.251	341.0098
1.00381	0.95399	1.00381	1973.095	1959.147
-1.01926	0.83278	0.98111	490.1755	482.0213
1.03032	0.6206	1.03032	2978.156	3086.363
1.15179	0.00658	1.15179	5442.804	6291.586
1.02775	0.57731	1.02775	1780.862	1830.489
-1.02016	0.94151	0.98024	183.507	180.5916
-1.15956	0.10125	0.8624	5019.443	4360.4
1.02763	0.60417	1.02763	3479.792	3552.974
1.1305	0.19547	1.1305	736.4905	827.446
1.00839	0.87601	1.00839	4901.749	4937.692
1.20808	0.11379	1.20808	501.2942	613.5197

1.13457	0.28461	1.13457	9742.896	11373.77
1.00438	0.95049	1.00438	695.0135	699.1261
-1.00152	0.97775	0.99848	5170.69	5193.174
1.01445	0.92966	1.01445	280.2842	282.5384
1.11107	0.30708	1.11107	1987.216	2219.713
1.05119	0.645	1.05119	1016.24	1062.821
-1.03273	0.81382	0.96831	382.9518	374.6744
-1.19558	0.07099	0.83641	7226.008	5800.652
1.00632	0.92234	1.00632	1471.028	1482.601
-1.0449	0.59899	0.95703	1752.095	1675.18
-1.06139	0.61176	0.94216	649.9684	620.4226
-1.00392	0.99672	0.9961	42.46652	42.32059
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1.05291	0.23277	1.05291	4247.198	4474.244
-1.04996	0.29749	0.95242	3300.428	3151.554
-1.02247	0.84916	0.97802	324.2429	317.2798
1.06136	0.89118	1.06136	135.1161	147.8625
1.03787	0.82263	1.03787	254.0802	262.6262
-1.0629	0.55956	0.94082	538.1848	509.3893
1.17091	0.72485	1.17091	123.2907	153.4886
1.05824	0.60771	1.05824	451.4345	479.6979
1.12518	0.14281	1.12518	8072.536	9317.063
-1.00456	0.97282	0.99546	474.3865	465.7365
-1.06716	0.29211	0.93707	2169.595	2033.188
-1.10733	0.58458	0.90307	284.6475	256.621
1.01521	0.84922	1.01521	954.7161	970.5536
-1.2006	0.44262	0.83291	344.4679	282.3866
1.00467	0.95138	1.00467	1129.085	1133.858
-1.00674	0.90706	0.99331	2158.645	2145.654
1.00735	0.92905	1.00735	953.9639	957.7279
-1.02723	0.60996	0.97349	1957.146	1906.835
-1.0884	0.8221	0.91878	150.022	135.8498
1.10559	0.2892	1.10559	1144.217	1256.061
1	1	1	23.47937	21.49602
-1.03032	0.769	0.97057	609.3806	596.338
1.03884	0.7898	1.03884	361.2637	370.3473
-1.00597	0.93168	0.99406	1235.446	1227.643
1.01588	0.89373	1.01588	7445.453	7328.271
-1.14178	0.44947	0.87583	454.6014	387.5949
1.02506	0.91572	1.02506	261.9143	274.6491
-1.056	0.51574	0.94697	1339.379	1270.309
-1.05186	0.27031	0.9507	32764.88	31063.34
-1.12854	0.00854	0.8861	5201.09	4598.815
-1.05672	0.47643	0.94633	17660.13	16937.04
-1.0138	0.76468	0.98638	8272.297	8162.822
-1.04742	0.50959	0.95473	3630.223	3474.243
-1.02352	0.84351	0.97702	446.1859	434.3102
1.02317	0.62802	1.02317	3343.188	3420.974
1.13158	0.83514	1.13158	81.3913	93.8857
-1.20862	0.14594	0.82739	1934.38	1631.789
-1.11631	0.54538	0.89581	653.4805	606.9017
-1.01006	0.94057	0.99004	391.1245	391.6413

1.0864	0.36644	1.0864	2595.982	2834.96
-1.04794	0.84887	0.95425	202.7448	193.1464
-1.23435	0.17002	0.81014	514.1195	428.2224
1.5344	0.00015	1.5344	421.8726	641.842
1.05872	0.70192	1.05872	323.2676	344.6979
1.16998	0.17228	1.16998	3358.745	3960.041
1.01722	0.85052	1.01722	517.3556	523.9044
1.12069	0.50625	1.12069	403.3494	437.6499
1.09934	0.50899	1.09934	287.8976	315.4765
-1.0184	0.78962	0.98194	835.168	822.4519
1.07918	0.68314	1.07918	206.391	221.2744
-1.00013	0.99989	0.99987	53.06886	48.42885
-1.00647	0.90182	0.99358	4074.983	4046.852
-1.17283	0.03968	0.85264	4336.494	3656.017
-1.13119	0.00449	0.88403	2994.541	2647.136
-1.04694	0.59999	0.95516	5900.343	5535.946
-1.02057	0.7989	0.97985	603.0715	590.8516
1.20156	0.83571	1.20156	46.80352	56.75456
1.3618	0.00197	1.3618	1044.865	1427.228
1.01022	0.9007	1.01022	12915.02	12763.71
1.03604	0.54111	1.03604	1197.506	1239.282
-1.01307	0.80062	0.9871	5332.672	5238.616
-1.41722	0.00014	0.70561	6561.296	4679.462
1.07261	0.37207	1.07261	2351.246	2512.277
1.00973	0.91397	1.00973	4679.255	4632.875
-1.01019	0.93378	0.98991	738.4977	728.4728
1.09218	0.23528	1.09218	6021.581	6636.65
1.06362	0.47131	1.06362	1205.622	1285.959
1.01147	0.93889	1.01147	439.8385	453.0242
1.01387	0.79445	1.01387	7778.373	7888.838
-1.0568	0.75008	0.94626	333.2054	314.2971
-1.09048	0.06637	0.91702	4507.123	4125.455
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-1.00004	0.99926	0.99996	2136.208	2136.858
1.04696	0.46811	1.04696	1310.503	1373.251
1.48983	0.14547	1.48983	114.0369	170.8838
1.07004	0.53149	1.07004	764.1832	824.3332
1.03285	0.82865	1.03285	281.3603	289.677
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-1.01643	0.80047	0.98383	11907.64	11572.88
-1.09149	0.64011	0.91618	368.1064	341.6268
-1.02574	0.67277	0.97491	1070.661	1041.281
1.03576	0.82228	1.03576	303.0549	311.4157
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-1.08842	0.19798	0.91876	4297.969	3920.399
-1.01127	0.81333	0.98886	6763.818	6671.45
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1.00017	0.99898	1.00017	443.4966	438.7133
1.05452	0.26288	1.05452	3761.351	3964.218
1.10438	0.1711	1.10438	1417.281	1569.804
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-1.03566	0.48946	0.96557	1435.34	1386.032
1.05106	0.72071	1.05106	423.1078	442.6234
-1.20318	0.09627	0.83113	1012.587	851.7249
-1.17054	0.27343	0.8543	271.4649	231.9731
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1.02087	0.7559	1.02087	1669.851	1703.876
1.10866	0.2658	1.10866	3356.144	3644.522
1.14217	0.51016	1.14217	211.7452	239.52
-1.05342	0.31277	0.94929	4936.396	4674.366
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-1.04106	0.58848	0.96056	657.0261	632.3518
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1.05293	0.69898	1.05293	623.9602	652.2336
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-1.00683	0.93031	0.99321	799.9518	798.0567
-1.03936	0.71468	0.96213	940.6152	910.1532
-1.05473	0.23197	0.94811	2033.064	1927.707
-1.2319	0.10159	0.81176	9138.366	7101.592
1.46383	0.00246	1.46383	601.635	893.674
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1.12031	0.05817	1.12031	8073.568	9121.709
1.06756	0.56568	1.06756	810.3999	859.2567
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1.006	0.93046	1.006	1044.283	1050.684
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1.02325	0.84087	1.02325	697.0284	706.3013
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-1.13877	0.07522	0.87814	1666.993	1467.283
-1.09718	0.03934	0.91142	9804.937	8953.322

1.04662	0.64102	1.04662	8718.626	9122.582
-1.05868	0.38772	0.94458	1459.823	1386.726
1.013	0.94149	1.013	280.1664	280.5182
-1.00652	0.89483	0.99352	2396.124	2382.28
-1.24497	0.00376	0.80323	4887.953	3870.818
1.2239	0.18843	1.2239	521.3201	629.248
-1.13571	0.27019	0.88051	507.791	450.7664
1.02567	0.97888	1.02567	63.88459	59.82382
1.13603	0.03689	1.13603	2272.363	2577.996
-1.30892	0.00485	0.76399	983.264	754.6681
-1.03325	0.54211	0.96782	4248.681	4105.485
1.04188	0.52808	1.04188	4174.405	4283.41
1.01377	0.94842	1.01377	302.007	311.5978
-1.16948	0.03666	0.85508	8701.853	7336.846
1.05663	0.44032	1.05663	686.9772	725.551
-1.05829	0.22485	0.94492	4062.446	3840.242
-1.01286	0.78385	0.98731	2117.21	2090.451
1.09023	0.45982	1.09023	698.2192	771.489
1.00547	0.92201	1.00547	2329.521	2338.397
1.00752	0.93034	1.00752	1695.073	1706.905
-1.29252	0.47347	0.77368	175.754	133.9068
1.37384	0.01059	1.37384	420.9434	571.3917
1.04014	0.62726	1.04014	927.4857	958.4446
-1.01631	0.77918	0.98395	3591.979	3551.4
-1.0842	0.18559	0.92234	5168.999	4729.186
-1.05324	0.54235	0.94945	763.308	722.2361
-1.01935	0.95505	0.98101	157.7891	156.3208
1.02737	0.73432	1.02737	1198.1	1237.409
-1.01611	0.8682	0.98415	504.2836	497.6647
-1.14914	0.58195	0.87022	257.1452	219.4131
1.16501	0.06488	1.16501	817.0833	945.7351
-1.12584	0.68468	0.88822	204.2083	179.2142
-1.00557	0.96688	0.99447	431.6102	435.4131
1.12107	0.10353	1.12107	3097.467	3495.177
1.25542	4.87E-06	1.25542	10840.32	13674.21
1.278	0.00552	1.278	756.8773	970.2711
1.11956	0.47364	1.11956	296.386	327.3859
-1.01669	0.8379	0.98359	1273.597	1254.948
-1.08565	0.27768	0.92111	790.3174	727.3904
1.0527	0.43479	1.0527	1476.905	1557.138
1.0001	0.99929	1.0001	858.8472	863.5189
-1.14467	0.66382	0.87361	153.5062	132.2387
1.03389	0.73583	1.03389	1337.065	1358.069
1.00639	0.9799	1.00639	231.6364	230.1982
1.0064	0.87701	1.0064	12385.24	12466.84
-1.19074	0.13907	0.83982	560.2592	473.1423
1.0888	0.4706	1.0888	768.8575	827.8334
-1.20414	0.46398	0.83047	277.6787	235.806
1.03388	0.92185	1.03388	145.3993	150.1585
1.00652	0.94247	1.00652	790.809	800.5645
1.00143	0.99157	1.00143	331.8724	331.7418
-1.15695	0.57188	0.86434	263.5234	221.6405

-1.08597	0.42559	0.92084	1948.662	1809.697
-1.01528	0.87162	0.98495	776.1133	768.2481
1.05376	0.63865	1.05376	696.4971	725.8462
1.24009	0.09785	1.24009	470.7406	592.587
-1.31087	0.20468	0.76285	215.9973	165.9773
-1.09729	0.49375	0.91134	422.9158	385.6429
1.14704	0.51351	1.14704	185.2023	212.3167
-1.28301	0.06438	0.77942	983.866	778.7469
-1.28339	0.17906	0.77919	1063.235	854.2315
1.37274	0.00006	1.37274	3219.74	4368.326
1.02857	0.85286	1.02857	439.3239	441.1268
-1.46545	0.00774	0.68238	987.4666	681.3339
1.11928	0.08034	1.11928	1481.815	1662.032
-1.05013	0.40544	0.95226	1288.295	1228.175
1.00212	0.97762	1.00212	7602.821	7632.521
-1.07158	0.78719	0.9332	235.9501	222.54
1.02777	0.68222	1.02777	1673.854	1719.12
1.06695	0.54289	1.06695	2783.152	2917.332
-1.01871	0.88241	0.98163	495.2795	492.8603
1.0296	0.7604	1.0296	584.7686	605.2929
1.03007	0.9328	1.03007	129.6154	131.4012
1.04959	0.35403	1.04959	17224.27	18148.12
-1.16994	0.83537	0.85474	75.79758	63.79466
-1.14154	0.34552	0.87601	651.6249	574.6221
-1.06419	0.43012	0.93969	1303.582	1231.422
-1.12294	0.21632	0.89052	810.7818	728.264
-1.02407	0.72238	0.97649	2341.185	2277.008
1.21326	0.0119	1.21326	1543.998	1875.248
1.06629	0.30116	1.06629	789.3641	842.64
1.02904	0.66636	1.02904	633.5834	651.4791
1.06132	0.45728	1.06132	5016.279	5377.842
-1.11663	0.05295	0.89555	1257.678	1126.922
1.52222	7.26E-08	1.52222	990.0966	1507.656
-1.0893	0.33336	0.91802	836.5962	771.1455
-1.12937	0.74424	0.88545	159.9944	139.835
1.02686	0.68744	1.02686	1267.098	1299.23
-1.03249	0.90588	0.96853	208.4808	203.1008
1.06598	0.17133	1.06598	12974.56	13830.55
1.26233	0.13448	1.26233	375.2756	464.3239
1.24572	0.1298	1.24572	245.386	307.3566
-1.28628	0.1822	0.77744	288.3315	227.6899
-1.0978	0.26292	0.91091	1052.831	961.9547
-1.03656	0.66732	0.96473	2154.004	2086.12
1.0006	0.99011	1.0006	1916.288	1920.233
1	1	1	23.9474	22.819
-1.02025	0.85066	0.98015	642.7718	623.5389
-1.05654	0.65835	0.94648	348.231	331.1685
-1.00283	0.95557	0.99718	2155.954	2147.667
1.0751	0.45694	1.0751	1913.772	2099.586
1.17652	0.03535	1.17652	709.7592	832.5686
1.00006	0.99892	1.00006	1792.84	1793.45
1.09274	0.55052	1.09274	321.7199	356.1409

1.18848	0.16714	1.18848	8693.839	10892.32
-1.11153	0.35106	0.89966	442.6575	401.108
-1.02195	0.7858	0.97852	1018.7	996.9822
1.10866	0.38378	1.10866	479.8309	537.2385
-1.06429	0.27393	0.9396	6145.317	5822.212
1.29378	0.00322	1.29378	535.0559	693.1827
-1.15198	0.23761	0.86807	643.6013	551.2252
1.08283	0.0974	1.08283	8378.971	9042.258
-1.02654	0.71568	0.97414	1550.942	1514.195
1.21963	0.01482	1.21963	1104.867	1348.65
-1.02356	0.77428	0.97698	685.5278	672.681
1.12296	0.09522	1.12296	766.9	860.7641
1.16267	0.30934	1.16267	374.2711	441.8752
-1.0328	0.92948	0.96824	155.5809	154.0263
-1.01046	0.86817	0.98965	1421.136	1407.807
1.17977	0.48122	1.17977	237.4171	265.5184
-1.19461	0.16532	0.83709	1402.298	1211.014
1.00773	0.97212	1.00773	244.1525	245.6981
1.18901	0.0022	1.18901	23851.71	28216.86
1.10803	0.86978	1.10803	72.81914	76.51153
1.07772	0.92931	1.07772	54.4232	59.0733
1.0313	0.63617	1.0313	8565.625	8840.912
-1.08561	0.68705	0.92114	288.3221	264.1631
-1.0465	0.48227	0.95557	1180.221	1128.474
-1.01724	0.88263	0.98305	3988.373	3920.775
1.10421	0.37009	1.10421	374.162	412.2322
1.57317	1.37E-07	1.57317	8612.476	13400.22
1.04459	0.66553	1.04459	879.0428	911.6477
1.1097	0.17816	1.1097	799.3732	882.6572
1.02475	0.84711	1.02475	418.2028	426.829
1.00546	0.93919	1.00546	1105.308	1107.954
-1.03177	0.69114	0.96921	2866.792	2775.695
1.1573	0.29593	1.1573	451.3075	512.6383
-1.00104	0.98943	0.99896	629.8427	631.4642
1.06729	0.3981	1.06729	3653.886	3845.454
-1.38944	0.00051	0.71971	1072.591	769.3766
-1.06907	0.22196	0.93539	18122.51	16791.34
1.00091	0.98362	1.00091	4025.518	4031.592
-1.11427	0.13206	0.89745	1159.318	1043.499
-1.1069	0.26546	0.90343	720.7466	652.3055
-1.10971	0.91614	0.90114	55.1993	50.44778
-1.00557	0.90824	0.99446	3770.837	3749.729
1.27305	0.00027	1.27305	2722.414	3440.925
1.02035	0.79092	1.02035	1137.383	1158.169
-1.02859	0.66703	0.9722	5178.28	5014.292
-1.08048	0.20818	0.92552	1807.086	1669.96
1.05758	0.32119	1.05758	2461.255	2607.099
-1.04846	0.59533	0.95378	1829.495	1754.188
1.08492	0.66794	1.08492	261.7835	283.9639
-1.06814	0.37399	0.93621	708.2952	664.09
-1.04168	0.51962	0.95998	1483.238	1430.395
1.05251	0.3535	1.05251	5545.982	5802.817

1.03633	0.55838	1.03633	1784.597	1843.645
-1.0218	0.7222	0.97867	799.8778	783.474
-1.05178	0.69739	0.95077	462.0548	445.4238
-1.09021	0.83295	0.91725	138.9582	126.8687
-1.2763	0.00336	0.78351	34579.61	27754.38
-1.11252	0.49242	0.89886	542.0928	481.6373
1.02132	0.76511	1.02132	1304.966	1329.976
1.01959	0.67457	1.01959	2874.151	2931.525
-1.00429	0.95131	0.99573	1691.957	1684.432
1.11969	0.49425	1.11969	339.8168	373.9661
1.05605	0.43347	1.05605	1035.619	1096.368
1.11106	0.19572	1.11106	856.8408	953.3638
-1.22809	0.61461	0.81427	147.795	122.2579
-1.0013	0.98937	0.9987	920.251	926.9342
1.49884	0.00043	1.49884	960.1089	1444.488
-1.00717	0.95642	0.99288	455.9148	453.2912
-1.5514	2.17E-06	0.64458	4436.219	2834.436
-1.0428	0.43223	0.95896	4854.189	4673.179
-1.07466	0.82732	0.93053	164.0953	152.0617
-1.29628	0.00571	0.77144	1401.187	1091.293
-1.03032	0.77516	0.97058	541.6135	527.3693
-1.04787	0.42181	0.95432	8464.243	8125.228
1.07882	0.84712	1.07882	132.2486	145.1581
1.14331	0.54275	1.14331	401.1797	438.2282
-1.16056	0.2875	0.86165	536.1914	471.0918
1	1	1	23.58239	21.60387
-1.0273	0.67923	0.97343	1705.596	1660.45
1.08173	0.53444	1.08173	883.1224	944.3931
-1.24694	0.18776	0.80197	427.1657	352.1406
1.0995	0.74121	1.0995	141.0794	157.0693
1.20307	0.02931	1.20307	540.1184	647.9959
-1.13096	0.23969	0.8842	468.4107	414.0187
-1.03263	0.87797	0.9684	212.8939	206.07
1.09268	0.63433	1.09268	251.1269	274.8664
1.04675	0.56143	1.04675	1051.303	1098.324
1.16307	0.21167	1.16307	483.7495	555.7905
1.32236	0.58384	1.32236	93.05907	114.5104
-1.04278	0.61442	0.95897	841.1936	811.7586
-1.10729	0.29837	0.9031	682.4008	616.0772
1.02927	0.76212	1.02927	3465.237	3592.746
-1.02946	0.9374	0.97138	149.519	145.5515
1.01634	0.86235	1.01634	766.4406	777.6017
-1.07301	0.48324	0.93195	1075.754	1016.007
-1.06538	0.68869	0.93864	312.0664	293.0025
-1.05468	0.37761	0.94816	778.1901	737.9726
-1.04491	0.62104	0.95702	928.0125	893.7494
-1.00161	0.97622	0.99839	1831.494	1831.355
-1.3348	0.00004	0.74917	21098.36	15599.12
-1.13935	0.62692	0.87769	225.2525	195.7602
1.07827	0.22621	1.07827	1998.329	2166.012
-1.05784	0.5324	0.94533	595.7588	562.9898
1.05871	0.65925	1.05871	368.5952	386.5371

-1.10999	0.18775	0.90091	1500.765	1359.634
-1.0791	0.72426	0.9267	198.8088	186.547
-1.05793	0.58945	0.94524	532.8068	507.6105
-1.17331	0.49471	0.85229	269.3138	229.2868
1.15492	0.45491	1.15492	228.1179	265.5775
-1.51117	4.59E-12	0.66174	6879.404	4512.557
-1.03495	0.70428	0.96623	3587.837	3412.527
-1.04262	0.66161	0.95912	944.7636	907.8767
-1.00388	0.9666	0.99613	666.6291	660.7317
-1.01373	0.82419	0.98646	2502.118	2466.903
1.21222	0.13264	1.21222	4168.359	4927.035
1.00636	0.94707	1.00636	577.4887	577.6637
1.03168	0.60872	1.03168	4041.16	4181.564
1.05492	0.57345	1.05492	444.6101	469.0012
-1.02281	0.72482	0.9777	1807.86	1776.052
1.15126	0.93914	1.15126	24.59534	25.9508
-1.11013	0.19748	0.90079	1853.319	1660.308
-1.25063	0.88549	0.7996	35.83556	25.35406
-1.0659	0.67393	0.93817	416.8693	390.3164
1.23981	0.0002	1.23981	9099.023	11194.74
-1.06339	0.61722	0.94039	700.9656	668.9303
-1.00665	0.93603	0.9934	520.2975	517.5194
1.13683	0.33408	1.13683	2728.901	3178.364
-1.06812	0.35976	0.93622	1011.183	951.3583
-1.13339	0.01343	0.88231	3812.104	3356.829
-1.00427	0.98704	0.99574	132.104	131.0148
1.01865	0.79063	1.01865	4309.29	4475.415
-1.01523	0.84324	0.985	1501.668	1486.882
1.41262	0.00001	1.41262	8742.791	12142.14
1.03367	0.57719	1.03367	1182.827	1222.705
1.02602	0.73341	1.02602	4237.891	4346.897
-1.02586	0.78653	0.97479	625.6306	611.3549
-1.03708	0.53582	0.96425	3567.598	3422.719
1.14011	0.06221	1.14011	1244.03	1417.821
-1.01892	0.86863	0.98143	643.144	637.2777
1.02594	0.97569	1.02594	54.37524	53.34176
-1.04824	0.73584	0.95398	315.8738	301.6265
-1.12417	0.2056	0.88955	1013.345	907.002
-1.06086	0.63047	0.94263	7185.184	6595.23
1.06155	0.58493	1.06155	403.0928	429.934
-1.01522	0.78661	0.98501	1836.373	1810.581
-1.08191	0.38338	0.9243	547.0357	507.7729
1.04323	0.78338	1.04323	266.2879	277.5443
1.01994	0.9238	1.01994	289.7253	304.239
-1.0407	0.45463	0.96089	2936.139	2824.633
1.00115	0.99319	1.00115	399.7201	400.1304
1.00282	0.96644	1.00282	2613.245	2617.081
-1.04658	0.56461	0.95549	805.8056	767.3167
-1.04279	0.62618	0.95897	3080.558	2943.253
1.03346	0.67335	1.03346	5793.117	6020.388
-1.00865	0.97391	0.99143	150.6325	150.2849
-1.52014	4.01E-08	0.65783	17034.74	11072.11

-1.22365	0.0029	0.81723	1335.203	1091.619
-1.27212	0.09536	0.78609	696.9985	559.2042
-1.15461	0.41697	0.86609	291.1122	256.0446
-1.12639	0.08493	0.88779	1445.398	1284.075
-1.06354	0.13171	0.94026	36871.46	34653.11
1.09984	0.26863	1.09984	768.4278	849.2264
-1.06372	0.90323	0.9401	112.2396	101.6383
-1.06361	0.89987	0.94019	115.5681	111.5599
-1.14802	0.06309	0.87106	9422.348	8291.873
1.30434	0.02866	1.30434	546.6567	721.804
-1.00644	0.93842	0.9936	15954.8	16330.85
1.01833	0.73091	1.01833	2994.603	3046.479
-1.08894	0.10943	0.91832	7706.958	7051.563
-1.09664	0.04758	0.91187	4944.842	4513.598
-1.03316	0.73789	0.9679	463.0242	450.1525
1.03844	0.50561	1.03844	3581.761	3698.118
1.0038	0.96967	1.0038	384.3907	386.6324
-1.03156	0.54163	0.9694	2670.823	2592.327
1.3094	8.36E-06	1.3094	5937.234	7815.96
1.01326	0.88163	1.01326	827.9842	835.1703
1.0185	0.75289	1.0185	2114.936	2149.377
1.13995	0.26332	1.13995	436.4305	492.7629
1.00159	0.97745	1.00159	1773.023	1775.304
-1.05463	0.59097	0.9482	2573.963	2408.003
-1.17536	0.86125	0.8508	61.70541	53.09167
1.07371	0.42862	1.07371	687.0194	733.019
1.03151	0.66798	1.03151	1496.704	1545.655
1.31178	0.11617	1.31178	388.4865	496.5977
-1.18963	0.00027	0.8406	60467.95	50642.52
2.04258	9.53E-06	2.04258	524.6364	1058.311
-1.17208	0.31008	0.85318	261.0683	223.3551
1.00608	0.94815	1.00608	914.3115	922.7205
-1.00413	0.93975	0.99588	5836.571	5815.082
1.0494	0.42446	1.0494	2063.981	2170.466
-1.00425	0.95902	0.99577	2406.753	2418.763
-1.01847	0.91649	0.98186	283.3429	280.541
-1.06796	0.87558	0.93637	138.6756	127.8858
-1.00565	0.91773	0.99439	5133.722	5125.214
-1.01203	0.96708	0.98811	204.8595	206.8219
-1.02483	0.87601	0.97577	291.7662	285.4356
-1.0132	0.82642	0.98697	3827.281	3752.617
-1.0114	0.95559	0.98873	232.39	229.5206
1.00242	0.98419	1.00242	318.3301	320.2101
-1.20467	0.46391	0.8301	246.3028	206.1384
-1.00787	0.93126	0.9922	908.3373	906.4823
1.05222	0.75728	1.05222	225.2137	236.1426
-1.16972	0.07947	0.8549	2364.546	2011.357
1.33535	0.00034	1.33535	840.416	1119.575
-1.06926	0.20409	0.93523	1906.058	1777.492
-1.07191	0.81801	0.93291	177.596	166.8833
-1.01611	0.77354	0.98415	3938.53	3879.602
1.02851	0.73867	1.02851	554.4288	569.2061

1.02922	0.82956	1.02922	307.4206	317.5941
1.07003	0.42975	1.07003	33565.84	37030.39
1.02682	0.6339	1.02682	3609.875	3734.52
-1.54755	1.50E-11	0.64618	2227.405	1439.469
-1.09985	0.0594	0.90921	1607.122	1461.211
1.06171	0.61378	1.06171	573.1255	616.0609
1.00556	0.94706	1.00556	556.8607	559.0267
-1.10584	0.43216	0.90429	421.6107	382.0934
1.02693	0.6405	1.02693	1645.886	1693.911
1.04234	0.5997	1.04234	826.3103	863.494
1.05623	0.38175	1.05623	2628.489	2799.436
1.00414	0.96527	1.00414	1016.591	1020.014
-1.23155	0.41015	0.81199	271.4371	220.8567
-1.28553	0.14597	0.77789	710.564	567.6381
1.03841	0.6903	1.03841	617.4354	644.9633
-1.07612	0.37566	0.92926	582.9625	541.3401
1.07509	0.79459	1.07509	158.3265	169.9348
1.15011	0.21411	1.15011	554.483	635.1274
-1.00546	0.91141	0.99457	2640.78	2626.392
-1.10115	0.21692	0.90814	3081.948	2816.424
1.0992	0.3908	1.0992	756.9602	824.2912
1.06209	0.18926	1.06209	2612.943	2774.322
-1.06486	0.7124	0.93909	429.1294	398.3429
1.09898	0.51465	1.09898	395.1039	436.944
1.13276	0.02892	1.13276	3750.841	4234.334
2.43465	0	2.43465	33700.41	82416.88
-1.08602	0.69719	0.92079	252.797	233.5464
1.0389	0.55065	1.0389	1015.71	1054.386
1.04275	0.3903	1.04275	2281.234	2379.084
1.07549	0.13815	1.07549	3337.667	3581.614
-1.04754	0.73978	0.95462	514.3093	500.5989
-1.00611	0.95073	0.99392	1480.811	1473.875
1.01703	0.75808	1.01703	2021.192	2056.017
-1.00751	0.9713	0.99255	215.6606	214.1708
1.01193	0.85404	1.01193	904.9844	915.191
1.01321	0.80273	1.01321	5601.951	5713.176
-1.12397	0.10738	0.8897	3497.571	3106.031
-1.05621	0.87628	0.94678	151.3767	144.4697
-1.03941	0.61021	0.96208	821.1248	786.6765
1.00512	0.97514	1.00512	335.8362	337.7195
1.25138	0.00178	1.25138	1223.662	1530.605
1.04939	0.86436	1.04939	188.0901	190.842
-1.35368	0.00004	0.73873	2707.416	1985.875
-1.03909	0.59835	0.96238	6482.206	6305.11
1.11936	0.25121	1.11936	661.5015	735.7792
-1.1624	0.47567	0.86029	322.6427	274.0535
1.1822	0.05814	1.1822	455.4345	538.1219
-1.10685	0.34694	0.90347	621.9789	567.5057
1.06562	0.39554	1.06562	584.1375	621.9407
1.76234	3.73E-08	1.76234	7730.606	14287.43
-1.00682	0.96176	0.99322	471.5494	477.8797
1.06759	0.3398	1.06759	1106.682	1181.575

-1.02344	0.85831	0.9771	307.9134	302.3487
-1.14628	0.73888	0.87238	143.6422	124.0287
1.06434	0.36875	1.06434	627.9979	667.9044
1.07487	0.37715	1.07487	1336.749	1437.705
1.12012	0.59169	1.12012	210.3956	239.7758
1.0643	0.20857	1.0643	2076.106	2210.635
-1.00553	0.90556	0.9945	2706.566	2689.876
1.03074	0.7037	1.03074	555.5226	571.9534
-1.03594	0.57295	0.9653	2713.072	2620.086
1.14009	0.02527	1.14009	1539.661	1752.146
1.05291	0.26811	1.05291	18377.03	19300.48
1.03528	0.65188	1.03528	834.3938	860.4742
-1.01603	0.87674	0.98423	551.845	540.2269
-1.08172	0.28048	0.92445	1122.86	1038.051
1.02816	0.59305	1.02816	3660.168	3759.086
1.17069	0.03234	1.17069	12328.45	14595.82
1.04322	0.56789	1.04322	962.2885	1001.1
-1.02908	0.59726	0.97175	1508.326	1462.345
-1.37621	0.00006	0.72663	11682.04	8391.133
1.31316	0.00177	1.31316	522.9314	684.2666
1.01762	0.76865	1.01762	994.846	1012.206
-1.09747	0.48792	0.91119	603.6381	551.8944
-1.20553	0.03229	0.82951	1850.865	1527.114
1.06497	0.91531	1.06497	85.16196	90.82522
-1.08593	0.80516	0.92087	148.7576	140.867
1.04867	0.79569	1.04867	262.6068	279.6694
1.02799	0.63088	1.02799	2035.351	2089.108
1.10265	0.6454	1.10265	216.1659	238.6679
1.11782	0.31339	1.11782	822.1242	911.5241
-1.06788	0.74187	0.93643	317.6193	300.3697
-1.17717	0.6982	0.8495	132.1889	120.2365
-1.01123	0.92467	0.9889	342.3939	337.6574
-1.04468	0.49409	0.95723	2695.902	2586.97
-1.15781	0.44423	0.8637	353.2085	304.4138
1.15999	0.15631	1.15999	41918.16	50289.54
1.06044	0.40532	1.06044	4875.67	5173.053
-1.41569	0.02501	0.70637	878.7867	632.5645
1.05204	0.47915	1.05204	1145.152	1203.28
-1.03314	0.52997	0.96792	1913.284	1857.112
-1.046	0.64227	0.95603	1811.306	1727.5
2.16321	6.24E-08	2.16321	1514.14	3377.231
1.06826	0.43992	1.06826	4471.815	4773.076
-1.07166	0.51473	0.93313	441.871	411.6694
2.17311	0.23292	2.17311	48.04924	113.9628
-1.02475	0.91732	0.97584	225.3762	220.6796
-1.01468	0.78851	0.98553	4025.153	3968.256
1.03091	0.71873	1.03091	839.3367	869.0637
-1.1343	0.37651	0.8816	1130.089	1007.98
1.38335	0.01209	1.38335	431.1417	587.7492
1.06911	0.61861	1.06911	349.9055	376.0191
-1.05842	0.8812	0.94481	151.548	148.2916
-1.32816	0.02364	0.75292	482.4864	363.3898

-1.11526	0.73104	0.89665	163.3351	150.6727
1.11757	0.65853	1.11757	140.2274	157.5214
-1.10593	0.07623	0.90422	2993.74	2691.515
1.52821	2.22E-17	1.52821	9300.56	14144.63
1.42612	9.13E-09	1.42612	54958.88	77600.46
-1.01401	0.88064	0.98618	1039.126	1031.756
-1.04146	0.68714	0.96019	668.1433	647.3826
1.00696	0.94773	1.00696	664.2761	662.219
1.03695	0.62881	1.03695	783.1222	812.0889
-1.06669	0.76679	0.93748	247.9598	238.6267
1.34414	0.00934	1.34414	344.6983	464.6005
-1.36228	5.37E-08	0.73407	2064.38	1513.493
1.2903	0.00714	1.2903	1145.918	1473.237
-1.00872	0.91411	0.99135	826.6964	816.3941