

Supplemental Material

Supplemental Material, Table 1. Genes responding transcriptionally to VPA in embryos

NIA EST ID	Gene Symbol ^a	Gene Name ^b	Log odds	Log ₂ fold change	Function ^c
H3013D11	<i>Mt2</i>	metallothionein 2	11.6	1.58	Heat Shock/Stress
H3010E09	<i>Mt2*</i>	metallothionein 2*	11.4	1.60	Heat Shock/Stress**
H3020C02	<i>Mt1</i>	metallothionein 1	10.3	1.26	Heat Shock/Stress
H3009D05	<i>Lgals1</i>	lectin, galactose binding, soluble 1	8.7	1.02	Matrix/Structural Proteins
H3007E10	<i>Ckb</i>	creatine kinase, brain	8.2	1.45	Matrix/Structural Proteins
H3010D09	<i>Vcl</i>	vinculin	7.0	0.79	Matrix/Structural Proteins
H3012B10	?	Mus musculus, clone MGC:6827 IMAGE:2649084, mRNA, complete cds	5.9	1.10	?**
H3054D02	<i>H3f3b</i>	H3 histone, family 3B	5.9	0.71	Transcription/Chromatin
H3013D08	<i>H3f3b</i>	H3 histone, family 3B	5.7	0.66	Transcription/Chromatin
H3042F03	<i>Smyd5</i>	SET and MYND domain containing 5	5.4	-0.64	?
H3015A10	<i>Pmm1</i>	phosphomannomutase 1	4.9	0.71	Matrix/Structural Proteins
H3030H08	<i>Hmgcl</i>	3-hydroxy-3-methylglutaryl-Coenzyme A lyase	4.8	0.62	Transcription/Chromatin
H3042E05	?	?	4.6	0.74	?
H3026G03	<i>Kpnb1</i>	karyopherin (importin) beta 1	4.5	-0.60	Matrix/Structural Proteins
H3017H12	<i>Tagln2</i>	transgelin 2	4.4	0.64	?
H3003A03	<i>Lgals1</i>	lectin, galactose binding, soluble 1	4.2	0.88	?
H3048G06	<i>Srm</i>	spermidine synthase	4.1	-0.59	?
H3058D09	<i>Gng3</i>	guanine nucleotide binding protein (G protein), gamma 3 subunit	3.5	0.56	Signal Transduction
H3028G03	<i>Robo1</i>	roundabout homolog 1 (Drosophila)	3.1	0.69	?
H3022G07	<i>Lgals1</i>	lectin, galactose binding, soluble 1	3.1	0.67	Matrix/Structural Proteins
H3032H10	?	Mus musculus xenotropic and polytropic retrovirus receptor 1, mRNA (cDNA ...	3.1	0.61	?
H3024F03	<i>Cox7a2l</i>	cytochrome c oxidase subunit VIIa polypeptide 2-like	3.0	0.50	?
H3031A04	2410016F19Rik	RIKEN cDNA 2410016F19 gene	3.0	-0.74	?
H3007G03	<i>Kpnb1</i>	karyopherin (importin) beta 1	2.9	-0.49	Matrix/Structural Proteins
H3059F01	<i>Uchl1</i>	ubiquitin carboxy-terminal hydrolase L1	2.9	0.93	?
H3024H10	<i>Figl1</i>	fidgetin-like 1	2.9	0.47	?
H3004B11	A930014C21Rik	RIKEN cDNA A930014C21 gene	2.8	0.51	?
H3035A06	?	?	2.8	0.70	?
H3027A06	<i>Eif4g2</i>	eukaryotic translation initiation factor 4, gamma 2	2.7	-0.48	Protein Synthesis/Translational Control
H3008A10	<i>Mybbp1a</i>	MYB binding protein (P160) 1a	2.5	-0.53	?
H3056G04	<i>Brd4</i>	bromodomain containing 4	2.5	0.76	Signal Transduction
H3014B09	<i>Anxa11</i>	annexin A11	2.2	0.58	Matrix/Structural Proteins
H3009G09	?	Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched...	2.2	0.51	?
H3018F10	?	Mus musculus ES cells cDNA, RIKEN full-length enriched library, clone:C3300...	2.2	- 0.52	?

Supplemental Material, Table 1 (continued)

NIA EST ID	Gene Symbol ^a	Gene Name ^b	Log odds	Log ₂ fold change	Function ^c
H3007D03	<i>Efs</i>	embryonal Fyn-associated substrate	2.1	-0.52	Signal Transduction
H3027E04	<i>Bcat1</i>	branched chain aminotransferase 1, cytosolic	2.1	-0.46	Signal Transduction
H3010E11	?	?	2.0	-0.45	?
H3064E06	A730008H23	hypothetical protein A730008H23	2.0	0.41	?
H3045F12	<i>Plcd</i>	phospholipase C, delta	2.0	0.65	Signal Transduction
H3022F11	?	?	1.9	-0.49	?
H3010H10	<i>Ramp2</i>	receptor (calcitonin) activity modifying protein 2	1.9	0.84	Signal Transduction
H3022B04	?	?	1.9	-0.45	?
H3016F11	?	?	1.9	-0.43	?*
H3040C04	<i>Ltb4dh</i>	leukotriene B4 12-hydroxydehydrogenase	1.8	0.69	?
H3031E04	<i>Rpo1-4</i>	RNA polymerase 1-4	1.8	-0.46	Protein Synthesis/Translational Control
H3003F10	<i>ldb1</i>	inhibitor of DNA binding 1	1.8	0.51	Transcription/Chromatin
H3019D11	?	?	1.7	-0.40	?
H3030C12	?	?	1.7	0.52	?
H3011D03	<i>Fasn</i>	fatty acid synthase	1.7	-0.68	Matrix/Structural Proteins
H3026H05	<i>D11Moh45</i>	DNA segment, Chr 11, KL Mohlke 45	1.6	-0.43	?
H3012D03	<i>Pmf1</i>	polyamine-modulated factor 1	1.6	-0.53	?
H3030C02	<i>Sdcbp</i>	syndecan binding protein	1.6	0.42	Matrix/Structural Proteins
H3003F11	9130023P14Rik	RIKEN cDNA 9130023P14 gene	1.6	0.63	Matrix/Structural Proteins
H3005E03	?	?	1.6	0.73	?
H3024F06	<i>Shmt1</i>	serine hydroxymethyl transferase 1 (soluble)	1.5	-0.42	Energy/Metabolism
H3008H06	?	?	1.5	0.44	?*
H3013C04	?	?	1.3	0.44	?*
H3031C09	<i>Trip6</i>	thyroid hormone receptor interactor 6	1.3	-0.45	Signal Transduction
H3010C05	1110007A10Rik	RIKEN cDNA 1110007A10 gene	1.3	0.38	?
H3017C11	<i>Rangnrf-pending</i>	RAN guanine nucleotide release factor	1.3	-0.39	Signal Transduction
H3064A03	1110046L09Rik	RIKEN cDNA 1110046L09 gene	1.3	0.45	?
H3018D02	<i>Gnai2</i>	guanine nucleotide binding protein, alpha inhibiting 2	1.2	0.40	Signal Transduction
H3001E10	<i>Nolc1</i>	nucleolar and coiled-body phosphoprotein 1	1.2	-0.46	?
H3044A03	<i>Crtap</i>	cartilage associated protein	1.2	-0.44	Matrix/Structural Proteins
H3023B11	<i>Hspd1</i>	heat shock protein 1 (chaperonin)	1.1	-0.41	Heat Shock/Stress
H3006B10	?	?	1.0	0.65	?

^{a,b} Annotations are as given by the NIA web site (<http://www.lgsun.grc.nia.nih.gov/cDNA/15k.html>) as of May 30, 2003, except where indicated.

^b Truncated at approximately 65 characters

^c Annotations from SOURCE (<http://source.stanford.edu/cgi-bin/source/SourceSearch>) as of September 19, 2003, except where indicated.

* Annotation by tBLASTx.

** Annotation done manually.

Unknown genes and/or functions are denoted with question marks.

Supplemental Material, Table 2. Genes responding transcriptionally to VPA in embryos

NIA EST ID	Gene Symbol ^a	Gene name ^b	Leave-out number	Log ₂ fold change	Function ^c
H3018G08	<i>Gale</i>	galactose-4-epimerase, UDP	E3	0.59	Energy/Metabolism
H3040E06	<i>Hmga2</i>	high mobility group AT-hook 2	E3	-0.48	?
H3017F05	<i>Lmna</i>	lamin A	E3	0.99	Matrix/Structural Proteins
H3040C04	<i>Ltb4dh</i>	leukotriene B4 12-hydroxydehydrogenase	E4	0.69	?
H3022E01	<i>Mbc2</i>	membrane bound C2 domain containing protein	E3	0.61	Energy/Metabolism
H3009G06	<i>Papss1</i>	3'-phosphoadenosine 5'-phosphosulfate synthase 1	E3	0.48	Matrix/Structural Proteins
H3050E03	<i>Rab13</i>	RAB, member of RAS oncogene family-like 3	E3	-0.54	?
H3030A08	<i>Rpa1</i>	replication protein A1	E3	0.49	DNA Replication
H3060A04	<i>Rpa1</i>	replication protein A1	E1	0.60	DNA Replication
H3005E03	?	?	E3	0.73	?
H3007A02	?	?	E3	-0.51	?
H3016A04	?	?	E3	-0.53	?
H3022F11	?	?	E3	-0.49	?
H3060E10	?	?	E3	0.61	?

^{a,b} Annotations are as given by the NIA web site (<http://www.lgsun.grc.nia.nih.gov/cDNA/15k.html>) as of May 30, 2003, except where indicated.

^b Truncated at approximately 65 characters

^c Annotations from SOURCE (<http://source.stanford.edu/cgi-bin/source/SourceSearch>) as of September 19, 2003, except where indicated.

Unknown genes and/or functions are denoted with question marks.

Supplemental Material, Table 3. Genes responding transcriptionally to VPA in P19 cells

NIA EST ID	Gene Symbol ^a	Gene Name ^b	Log odds	Log ₂ fold change	Function ^c
H3005E03	?	?	10.6	1.29	?
H3017H12	<i>Tagln2</i>	transgelin 2	10.3	1.09	?
H3007E10	<i>Ckb</i>	creatine kinase, brain	10.0	1.01	Matrix/Structural Proteins
H3040C04	<i>Ltb4dh</i>	leukotriene B4 12-hydroxydehydrogenase	9.0	1.34	?
H3018E05	<i>Krt2-8</i>	keratin complex 2, basic, gene 8	8.6	1.01	Matrix/Structural Proteins
H3056G04	<i>Brd4</i>	bromodomain containing 4	8.6	0.81	Signal Transduction
H3054D02	<i>H3f3b</i>	H3 histone, family 3B	8.4	0.81	Transcription/Chromatin
H3001H10	<i>Tmsb10</i>	thymosin, beta 10	8.3	0.81	?
H3007G06	<i>Krt1-18</i>	keratin complex 1, acidic, gene 18	7.4	1.03	Matrix/Structural Proteins
H3003A03	<i>Lgals1</i>	lectin galactose binding, soluble 1	7.4	0.84	?
H3054A08	D830048B13	hypothetical protein D830048B13	7.3	-0.84	?
H3023C06	D10Erttd17e	DNA segment, Chr 10, ERATO Doi 17, expressed	7.1	-0.74	?
H3014B09	<i>Anxa11</i>	annexin A11	7.1	0.97	Matrix/Structural Proteins
H3013D08	<i>H3f3b</i>	H3 histone, family 3B	6.9	0.92	Transcription/Chromatin
H3026F06	9130022B02Rik	RIKEN cDNA 9130022B02 gene	6.4	-0.76	Energy/Metabolism
H3009D05	<i>Lgals1</i>	lectin, galactose binding, soluble 1	6.4	0.86	Matrix/Structural Proteins
H3027E05	<i>Upp</i>	uridine phosphorylase	6.3	-0.95	Energy/Metabolism
H3030B11	<i>Trh</i>	thyrotropin releasing hormone	6.2	0.73	?
H3061C11	D11Erttd497e	DNA segment, Chr 11, ERATO Doi 497, expressed	6.1	0.65	?
H3029H05	<i>Tdgf1</i>	teratocarcinoma-derived growth factor	5.8	0.60	Signal Transduction
H3027C11	5830446M03Rik	RIKEN cDNA 5830446M03 gene	5.8	-0.62	?
H3024F02	?	?	5.6	0.80	?
H3020F04	C130032J12Rik	RIKEN cDNA C130032J12 gene	5.5	-0.64	?
H3030F05	2310075E07Rik	RIKEN cDNA 2310075E07 gene	5.4	0.83	?
H3020C02	<i>Mt1</i>	metallothionein 1	5.4	0.71	Heat Shock/Stress
H3030B10	<i>Sec13l-pending</i>	sec13-like protein	5.3	-0.60	Matrix/Structural Proteins
H3053G02	A130038L21Rik	RIKEN cDNA A130038L21 gene	5.3	0.83	?
H3038E05	<i>Gdf3</i>	growth differentiation factor 3	5.3	-0.61	Signal Transduction
H3019G03	<i>Tbrg1</i>	transforming growth factor beta regulated gene 1	5.2	0.59	?
H3003F10	<i>Idb1</i>	inhibitor of DNA binding 1	5.2	0.65	Transcription/Chromatin
H3020C04	<i>Xpo4</i>	exportin 4	5.1	-0.66	?
H3056H05	1700007D07Rik	RIKEN cDNA 1700007D07 gene	5.1	-0.63	Energy/Metabolism
H3013C04	?	?	5.1	0.63	Heat Shock/Stress
H3004B11	A930014C21Rik	RIKEN cDNA A930014C21 gene	5.0	0.81	?

Supplemental Material, Table 3 (continued)

NIA EST ID	Gene Symbol ^a	Gene Name ^b	Log odds	Log ₂ fold change	Function ^c
H3057C10	<i>Bpnt1</i>	bisphosphate 3'-nucleotidase 1	4.9	-0.62	Energy/Metabolism
H3020B10	<i>Nsap1-pending</i>	NS1-associated protein 1	4.8	-0.55	?
H3024G04	?	?	4.6	0.65	?
H3015E11	<i>Pdim1</i>	PDZ and LIM domain 1 (elfin)	4.5	0.63	Transcription/Chromatin
H3022C12	<i>Igf2bp1</i>	insulin-like growth factor 2, binding protein 1	4.4	-0.56	?
H3048G11	<i>Blvrb</i>	biliverdin reductase B (flavin reductase (NADPH))	4.2	0.53	Energy/Metabolism
H3012D03	<i>Pmf1</i>	polyamine-modulated factor 1	4.1	-0.66	?
H3010E09	<i>Mt2*</i>	metallothionein 2*	4.0	0.67	Heat Shock/Stress**
H3024F03	<i>Cox7a2l</i>	cytochrome c oxidase subunit VIIa polypeptide 2-like	4.0	0.52	?
H3005B12	<i>Peg10</i>	paternally expressed 10	3.9	0.58	?
H3029G12	?	?	3.9	-0.83	?
H3037B03	?	Mus musculus 7 days embryo whole body cDNA, RIKEN full-length enriched lib...	3.8	0.60	Transcription/Chromatin
H3039H01	<i>Cnn2</i>	calponin 2	3.8	0.74	Signal Transduction
H3011C05	?	?	3.8	0.53	?
H3019F08	<i>Rod1</i>	ROD1 regulator of differentiation 1 (S. pombe)	3.7	0.69	?
H3029D03	<i>Cbx5</i>	chromobox homolog 5 (Drosophila HP1a)	3.7	-0.60	Transcription/Chromatin
H3055H05	<i>Carhsp1</i>	calcium regulated heat stable protein 1	3.6	0.59	?
H3050H06	<i>Irf1</i>	interferon regulatory factor 1	3.6	0.76	Heat Shock/Stress
H3020A12	<i>Hdlbp</i>	high density lipoprotein (HDL) binding protein	3.6	-0.78	?
H3006A12	<i>Peg10</i>	paternally expressed 10	3.5	0.52	?
H3019G11	<i>Lrp10</i>	low-density lipoprotein receptor-related protein 10	3.5	0.60	?
H3031E04	<i>Rpo1-4</i>	RNA polymerase 1-4	3.5	-0.64	Protein Synthesis/Translational Control
H3051H09	?	?	3.5	-0.69	?
H3001C11	<i>Il25</i>	interleukin 25	3.5	0.55	?
H3059G12	<i>Tex292</i>	testis expressed gene 292	3.4	-0.55	?
H3010A08	<i>Tex19</i>	testis expressed gene 19	3.4	0.68	?
H3002C10	<i>Falz</i>	fetal Alzheimer antigen	3.3	-0.70	Transcription/Chromatin
H3048A03	?	?	3.3	-0.49	?
H3003F11	9130023P14Rik	RIKEN cDNA 9130023P14 gene	3.3	0.85	Matrix/Structural Proteins
H3038F07	<i>Stx3</i>	syntaxin 3	3.2	0.59	?
H3012F11	?	?	3.2	0.54	?
H3025B08	<i>Nol1</i>	nucleolar protein 1	3.1	-0.53	Cell Cycle
H3019A08	<i>Arpc1b</i>	actin related protein 2/3 complex, subunit 1B	3.1	0.53	Matrix/Structural Proteins
H3004H06	<i>Hrmt112</i>	heterogeneous nuclear ribonucleoproteins methyltransferase-like 2 (S. cerevisiae)	3.1	-0.55	Energy/Metabolism
H3022G07	<i>Lgals1</i>	lectin, galactose binding, soluble 1	3.1	0.58	Matrix/Structural Proteins
H3004C04	<i>Mgea5</i>	meningioma expressed antigen 5 (hyaluronidase)	3.0	0.55	?

Supplemental Material, Table 3 (continued)

NIA EST ID	Gene Symbol ^a	Gene Name ^b	Log odds	Log ₂ fold change	Function ^c
H3013A08	<i>Jup</i>	junction plakoglobin	3.0	0.67	Matrix/Structural Proteins
H3054B08	<i>Inpp5f</i>	inositol polyphosphate-5-phosphatase F	2.9	0.69	?
H3052C02	?	?	2.9	0.54	?
H3007A03	?	?	2.8	0.60	?
H3051E08	?	?	2.8	0.52	?
H3022A06	?	?	2.8	-0.45	?
H3001B04	2010200I23Rik	RIKEN cDNA 2010200I23 gene	2.7	0.51	?
H3051E12	BC020184	cDNA sequence BC020184	2.7	0.52	?
H3028E03	9030221M09Rik	RIKEN cDNA 9030221M09 gene	2.7	0.46	Matrix/Structural Proteins
H3031A04	2410016F19Rik	RIKEN cDNA 2410016F19 gene	2.7	-0.46	?
H3009E04	2410043F08Rik	RIKEN cDNA 2410043F08 gene	2.6	0.56	?
H3027C09	3010027A04Rik	RIKEN cDNA 3010027A04 gene	2.6	-0.53	?
H3052B11	<i>Pctk3</i>	PCTAIRE-motif protein kinase 3	2.6	0.56	Signal Transduction
H3029B05	<i>T</i>	brachyury	2.6	0.82	Transcription/Chromatin
H3015D04	<i>Elov16</i>	ELOVL family member 6, elongation of long chain fatty acids (yeast)	2.6	0.46	?
H3045A10	D11Ert530e	DNA segment, Chr 11, ERATO Doi 530, expressed	2.6	0.68	?
H3021E06	<i>Epha2</i>	Eph receptor A2	2.6	0.59	?
H3021H05	<i>Pdcl</i>	phosducin-like	2.5	0.48	?
H3014H12	<i>Krt2-8</i>	keratin complex 2, basic, gene 8	2.5	0.65	Matrix/Structural Proteins
H3059H05	<i>Smp1-pending</i>	small membrane protein 1	2.4	0.51	Matrix/Structural Proteins
H3018H05	A430104C18Rik	RIKEN cDNA A430104C18 gene	2.4	0.56	?
H3023H11	<i>Ftl1</i>	ferritin light chain 1	2.4	0.45	Energy/Metabolism
H3027C06	<i>Trpm7</i>	transient receptor potential cation channel, subfamily M, member 7	2.3	0.48	Energy/Metabolism
H3028C07	<i>Gpc3</i>	glypican 3	2.3	0.49	Matrix/Structural Proteins
H3027A06	<i>Eif4g2</i>	eukaryotic translation initiation factor 4, gamma 2	2.3	-0.44	Protein Synthesis/Translational Control
H3007E02	<i>Gstp2</i>	glutathione S-transferase, pi 2	2.2	0.48	Energy/Metabolism
H3018F05	<i>Cdh3</i>	cadherin 3	2.2	0.45	Matrix/Structural Proteins
H3048E11	?	?	2.2	0.45	?
H3010B10	?	?	2.2	0.55	?
H3025E09	2310020L09Rik	RIKEN cDNA 2310020L09 gene	2.2	0.58	?
H3054E02	?	?	2.2	-0.56	?
H3013D11	<i>Mt2</i>	metallothionein 2	2.2	0.90	Heat Shock/Stress
H3007C05	9530090G24Rik	RIKEN cDNA 9530090G24 gene	2.1	0.51	?
H3016E04	3930401E15Rik	RIKEN cDNA 3930401E15 gene	2.0	0.48	?
H3003B04	<i>Tapbp</i>	TAP binding protein	2.0	0.51	?
H3020E06	?	?	2.0	0.47	?

Supplemental Material, Table 3 (continued9)

NIA EST ID	Gene Symbol ^a	Gene Name ^b	Log odds	Log ₂ fold change	Function ^c
H3031E11	<i>Gapd</i>	glyceraldehyde-3-phosphate dehydrogenase	1.9	-0.41	Energy/Metabolism
H3009E09	<i>Topk-pending</i>	T-LAK cell-originated protein kinase	1.9	0.54	?
H3047F08	?	Mus musculus 0 day neonate head cDNA, RIKEN full-length enriched library, cl...	1.9	0.45	?
H3004D04	AA408296	expressed sequence AA408296	1.9	-0.43	?
H3020A05	2600005C20Rik	RIKEN cDNA 2600005C20 gene	1.8	-0.44	?
H3011E10	<i>Arpc1a</i>	actin related protein 2/3 complex, subunit 1A	1.8	0.41	?
H3025F03	<i>Car14</i>	carbonic anhydrase 14	1.8	-0.43	?
H3023G12	?	?	1.8	0.59	?
H3048E09	6230425C22Rik	RIKEN cDNA 6230425C22 gene	1.7	-0.43	?
H3011D03	<i>Fasn</i>	fatty acid synthase	1.7	-0.46	Matrix/Structural Proteins
H3024F01	<i>Lrp2</i>	low density lipoprotein receptor-related protein 2	1.7	0.55	?
H3009H04	<i>Rad50</i>	RAD50 homolog (<i>S. cerevisiae</i>)	1.7	0.45	DNA Replication
H3057B11	<i>Tpd52l1</i>	tumor protein D52-like 1	1.6	0.56	Signal Transduction
H3031E10	<i>Ahcy</i>	S-adenosylhomocysteine hydrolase	1.5	-0.38	Energy/Metabolism
H3052A04	<i>Mor2</i>	malate dehydrogenase, soluble	1.5	0.49	Energy/Metabolism
H3010C05	1110007A10Rik	RIKEN cDNA 1110007A10 gene	1.5	0.41	?
H3013D07	?	?	1.4	0.42	Transcription/Chromatin
H3042C02	2310009N05Rik	RIKEN cDNA 2310009N05 gene	1.4	0.48	?
H3051H03	<i>Litaf</i>	LPS-induced TN factor	1.4	0.49	Transcription/Chromatin
H3042H07	<i>Smarcc1</i>	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, sub...	1.4	-0.40	Transcription/Chromatin
H3028F03	<i>Ctsl</i>	cathepsin L	1.4	0.38	Signal Transduction
H3023B12	?	?	1.4	-0.40	Heat Shock/Stress
H3020B07	<i>Nap11</i>	nucleosome assembly protein 1-like 1	1.3	-0.37	Transcription/Chromatin
H3023H10	<i>Fil1</i>	ferritin light chain 1	1.3	0.42	Energy/Metabolism
H3008A06	1200008D14Rik	RIKEN cDNA 1200008D14 gene	1.3	0.45	?
H3030E02	<i>Gabarapl2</i>	GABA(A) receptor-associated protein like 2	1.3	0.38	?
H3030E10	<i>Ctsb</i>	cathepsin B	1.2	0.41	Signal Transduction
H3014H10	<i>Tde1l</i>	tumor differentially expressed 1, like	1.2	0.38	Signal Transduction
H3060B11	1110020C13Rik	RIKEN cDNA 1110020C13 gene	1.2	0.46	?
H3059F01	<i>Uchl1</i>	ubiquitin carboxy-terminal hydrolase L1	1.2	0.59	?
H3022F11	?	?	1.2	-0.46	?
H3018B03	<i>Mrpl12</i>	mitochondrial ribosomal protein L12	1.2	-0.37	?
H3015C10	E330036L07Rik	RIKEN cDNA E330036L07 gene	1.1	-0.43	Protein Synthesis/Translational Control
H3058E07	<i>Mtap4</i>	microtubule-associated protein 4	1.1	0.43	Matrix/Structural Proteins
H3032B08	<i>Hmgn2</i>	high mobility group nucleosomal binding domain 2	1.1	-0.40	Transcription/Chromatin
H3021A05	D030051D21	hypothetical protein D030051D21	1.1	0.45	?

Supplemental Material, Table 3 (continued)

NIA EST ID	Gene Symbol ^a	Gene Name ^b	Log odds	Log ₂ fold change	Function ^c
H3017E12	<i>Sdc3</i>	syndecan 3	1.1	0.47	?
H3014F04	B230312B02Rik	RIKEN cDNA B230312B02 gene	1.1	0.40	?
H3023F02	<i>Pip5k1b</i>	phosphatidylinositol-4-phosphate 5-kinase, type 1 beta	1.1	-0.43	Signal Transduction
H3010B07	5730414C17Rik	RIKEN cDNA 5730414C17 gene	1.0	0.40	?
H3027H10	<i>Nol5a</i>	nucleolar protein 5A	1.0	-0.37	?
H3013A12	<i>Crry</i>	complement receptor related protein	1.0	-0.49	Matrix/Structural Proteins
H3015H08	<i>Lyric-pending</i>	lyric	1.0	0,38	?

^{a,b} Annotations are as given by the NIA web site (<http://www.lgsun.grc.nia.nih.gov/cDNA/15k.html>) as of May 30, 2003, except where indicated.

^b Truncated at approximately 65 characters

^c Annotations from SOURCE (<http://source.stanford.edu/cgi-bin/source/SourceSearch>) as of September 19, 2003, except where indicated.

* Annotation by tBLASTx.

** Annotation done manually.

Unknown genes and/or functions are denoted with question marks.

Supplemental Material, Table 4. Genes responding transcriptionally to VPA in P19 cells

NIA EST ID	Gene Symbol ^a	Gene name ^b	Leave-out number	Log ₂ fold change	Function ^c
H3016C05	<i>Anxa5</i>	annexin A5	C4	0.94	Matrix/Structural Proteins
H3036B11	<i>Arhgef1</i>	Rho guanine nucleotide exchange factor (GEF) 1	C3	0.53	Signal Transduction
H3041D11	<i>Ccnd3</i>	cyclin D3	C3	0.64	Cell Cycle
H3033F11	<i>Cst3</i>	cystatin C	C4	0.50	?
H3013G06	E130012A19Rik	RIKEN cDNA E130012A19 gene	C3	0.69	?
H3022D03	<i>Galk1</i>	galactokinase 1	C3	0.50	Energy/Metabolism
H3003B12	<i>Gemin5</i>	gem (nuclear organelle) associated protein 5	C4	-0.71	?
H3036C12	<i>Hdlbp</i>	high density lipoprotein (HDL) binding protein	C4	-1.15	?
H3004D11	<i>Hic1</i>	hypermethylated in cancer 1	C1	0.62	?
H3030H09	<i>Zfp278</i>	zinc finger protein 278	C4	-0.54	Transcription/Chromatin
H3012E02	2310004K20Rik	RIKEN cDNA 2310004K20 gene	C3	0.74	?
H3040B01	2410016F19Rik	RIKEN cDNA 2410016F19 gene	C1	-0.75	?
H3004B10	AA408112	EST AA408112	C2	0.59	?
H3032D02	?	?	C4	-0.52	?
H3036G12	?	?	C1	0.97	?
H3060F05	?	?	C2	-0.56	Protein Synthesis/Translational Control

^{a,b} Annotations are as given by the NIA web site (<http://www.lgsun.grc.nia.nih.gov/cDNA/15k.html>) as of May 30, 2003, except where indicated.

^b Truncated at approximately 65 characters

^c Annotations from SOURCE (<http://source.stanford.edu/cgi-bin/source/SourceSearch>) as of September 19, 2003, except where indicated.

Unknown genes and/or functions are denoted with question marks.