

Supplementary Table A

Name	24 HR E2/CSS	1HR	4HR	12HR	24HR	36HR	48HR
24125 IQ motif containing GTPase activating protein 1	-1.32	1.52	-1.04	-1.16	-1.16	1.02	1.05
26474 v-fos FBJ murine osteosarcoma viral oncogene homolog	1.74	-1.21	1.02	-1.14	-1.28	-1.25	-1.03
29682 protein kinase C binding protein 1	-1.25	1.13	-1.38	-1.50	-1.40	-1.58	-1.24
32811 cyclin A2	1.73	-1.13	-1.08	1.19	1.73	1.64	1.28
34821 cholinergic receptor, nicotinic, alpha polypeptide 4	-1.23	1.16	-1.20	-1.53	-1.48	-1.43	-1.32
35356 neurotrophic tyrosine kinase, receptor, type 3	1.23	1.41	1.09	-1.01	-1.10	-1.14	-1.13
49950 flap structure-specific endonuclease 1	2.17	1.01	1.27	1.84	2.00	1.93	1.24
51692 Fanconi anemia, complementation group G	1.49	0.00	0.00	0.00	0.00	0.00	0.00
52713 vitronectin (serum spreading factor, somatomedin B, complement S-protein)	1.75	-1.07	-1.05	1.52	2.25	2.08	1.44
110022 cyclin D1 (PRAD1: parathyroid adenomatosis 1)	1.22	1.43	1.74	1.42	1.53	1.56	1.16
119265 prefoldin 4	-1.09	-1.07	1.02	-1.10	-1.24	-1.27	-1.03
124424 DNA (cytosine-5-)-methyltransferase 1	1.27	1.16	1.16	1.61	1.65	1.50	1.03
125752 protein tyrosine phosphatase, non-receptor type 1	-1.09	1.04	1.02	-1.02	-1.17	-1.08	1.21
129140 MAD2 mitotic arrest deficient-like 1 (yeast)	2.03	-1.09	1.01	1.55	1.89	1.68	1.30
135517 interferon-stimulated transcription factor 3, gamma (48kD)	-1.30	-1.00	-1.14	-1.44	-1.44	-1.45	-1.45
136609 v-myb myeloblastosis viral oncogene homolog (avian)-like 1	1.25	1.04	1.66	2.23	2.92	2.46	2.11
150163 neuropeptide Y receptor Y1	3.45	1.04	1.71	1.67	2.31	2.37	1.92
153067 stanniocalcin 2	1.70	0.00	0.00	0.00	0.00	0.00	0.00
155227 Homo sapiens clone 25194 mRNA sequence	-1.69	-1.09	-1.12	-1.36	-1.73	-1.56	-1.58
161566 NAD(P)H dehydrogenase, quinone 1	-1.56	-1.05	-1.05	-1.30	-1.77	-1.76	-1.55
162479 E74-like factor 3 (ets domain transcription factor, epithelial-specific)	-1.72	1.41	-1.12	-1.59	-1.75	-1.56	-1.49
162772 early growth response 1	-1.15	-1.24	1.09	-1.06	-1.20	-1.22	-1.48
180789 low density lipoprotein-related protein 1 (alpha-2-macroglobulin receptor)	-1.14	1.06	-1.03	-1.26	-1.65	-1.49	-1.56
188380 neogenin homolog 1 (chicken)	-1.07	1.36	-1.09	-1.13	-1.29	-1.04	1.24
196676 replication factor C (activator 1) 4 (37kD)	1.57	-1.08	1.14	1.49	1.46	1.47	1.19
198205 v-myb myeloblastosis viral oncogene homolog (avian)-like 2	2.60	-1.02	-1.01	2.08	2.40	2.12	1.29
198233 thyroid hormone receptor interactor 13	1.92	1.06	1.01	1.40	1.87	1.79	1.17
200209 integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	1.61	-1.16	1.01	1.16	1.30	1.30	1.18
200573 ESTs	1.25	-1.10	-1.00	1.37	1.79	1.57	1.34
206795 asialoglycoprotein receptor 2	-1.57	1.02	1.11	-1.16	-1.43	-1.17	-1.05
221170 caspase 7, apoptosis-related cysteine protease	1.10	1.15	1.50	1.08	1.15	1.08	1.07
229509 coagulation factor V (proaccelerin, labile factor)	1.36	1.01	-1.06	1.30	1.65	1.47	1.20
232710 p300/CBP-associated factor	-1.68	1.05	-1.04	-1.17	-1.44	-1.25	-1.01
235938 BCL2-antagonist/killer 1	-1.54	-1.06	-1.13	-1.26	-1.38	-1.30	-1.25
238520 interferon, alpha-inducible protein 27	-1.30	-1.30	1.07	-1.41	-1.65	-1.16	-1.27
238545 ADP-ribosylation factor-like 3	1.39	-1.06	1.34	1.47	1.70	1.74	1.54
241412 E74-like factor 1 (ets domain transcription factor)	-1.00	1.09	1.56	1.13	-1.03	1.15	1.18
242182 protein kinase (cAMP-dependent, catalytic) inhibitor beta	1.74	-1.08	1.61	1.95	2.23	2.38	1.98
244268 hypothetical protein MGC11287 similar to ribosomal protein S6 kinase ,	-1.43	-1.05	-1.03	-1.11	-1.30	-1.20	-1.05

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245490 cytochrome P450, subfamily IIJ (arachidonic acid epoxygenase) polypeptide 2	-1.48	-1.03	-1.01	-1.07	-1.24	-1.18	-1.16
248008 deoxythymidylate kinase (thymidylate kinase)	1.59	1.03	1.10	1.54	2.14	1.98	1.17
248589 serum/glucocorticoid regulated kinase	1.13	1.36	1.23	1.14	-1.05	1.13	1.12
248613 v-myb myeloblastosis viral oncogene homolog (avian)	2.73	1.17	2.35	1.91	2.04	2.17	1.91
256260 replication factor C (activator 1) 3 (38kD)	1.57	1.02	-1.01	1.34	1.57	1.49	1.21
264117 cathepsin D (lysosomal aspartyl protease)	1.02	1.15	1.27	1.80	1.62	2.01	1.89
264200 signal transducer and activator of transcription 5A	-1.17	-1.06	-1.04	-1.02	-1.32	-1.24	-1.04
270209 ribosomal protein S6 kinase, 90kD, polypeptide 3	-1.09	-1.05	-1.38	-1.43	-1.46	-1.28	-1.08
277802 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a-like 1	-1.16	-1.03	-1.08	-1.14	-1.24	-1.25	-1.03
278533 cytochrome c oxidase subunit VIc	1.43	-1.04	1.00	1.28	1.71	1.92	1.44
280768 transmembrane 4 superfamily member 1	-1.83	-1.17	-1.13	-1.10	-1.39	-1.28	1.03
285427 CSE1 chromosome segregation 1-like (yeast)	1.33	-1.01	1.20	1.37	1.72	1.58	1.19
293111 uracil-DNA glycosylase	-1.06	-1.04	1.26	1.55	1.17	1.24	1.44
297392 metallothionein 1L	-1.17	-1.13	-1.99	-1.63	-1.45	-1.20	1.12
298314 Sp3 transcription factor	-1.10	1.36	1.09	-1.26	-1.08	-1.01	1.01
321207 polymerase (DNA directed), epsilon	1.27	1.14	1.10	1.75	1.74	1.49	1.02
322016 msh homeo box homolog 2 (Drosophila)	-1.56	1.02	1.02	-1.08	-1.12	-1.12	-1.13
323946 inhibitor of DNA binding 3, dominant negative helix-loop-helix protein	-1.21	-1.04	-1.12	-1.41	-1.59	-1.49	-1.23
324338 transforming growth factor, beta 2	-1.12	1.01	-1.28	-1.35	-1.57	-1.41	-1.16
328814 S-adenosylmethionine decarboxylase 1	1.51	-1.01	1.25	1.19	1.29	1.34	1.19
339075 karyopherin alpha 2 (RAG cohort 1, importin alpha 1)	1.47	1.05	1.10	1.46	2.88	2.16	1.40
340734 nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	-1.23	1.11	1.05	-1.18	-1.17	-1.22	-1.37
343981 fatty acid binding protein 5 (psoriasis-associated)	1.56	-1.08	1.13	-1.15	1.22	1.24	1.23
344109 proliferating cell nuclear antigen	2.33	-1.05	1.16	1.76	1.70	1.68	1.34
346838 MCM3 minichromosome maintenance deficient 3 (S. cerevisiae)	1.82	1.08	1.19	1.46	1.63	1.47	1.15
356635 stromal cell-derived factor 1	3.42	1.54	2.25	1.90	2.35	2.31	2.06
356890 hyaluronoglucosaminidase 1	-1.06	1.01	-1.26	1.40	1.39	1.41	1.38
357886 X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining; Ku autoantigen, 80kD)	1.00	-1.00	-1.43	-1.41	-1.08	-1.11	-1.02
358858 MCM2 minichromosome maintenance deficient 2, mitotin (S. cerevisiae)	1.60	1.09	1.10	1.32	1.31	1.32	1.15
359119 CDC28 protein kinase 2	-1.22	-1.16	1.02	1.22	1.79	1.53	1.20
359191 protein kinase H11	3.07	1.36	1.66	1.02	-1.05	1.12	1.86
359465 dihydrofolate reductase	2.13	1.04	-1.05	1.48	1.77	1.75	1.44
361381 myeloid cell leukemia sequence 1 (BCL2-related)	1.71	1.13	-1.31	-1.82	-1.58	-1.40	-1.26
361543 DKFZP434C131 protein	1.52	1.01	1.14	-1.17	-1.32	-1.30	1.01
362059 laminin, alpha 3 (nicein (150kD), kalinin (165kD), BM600 (150kD), epilegrin)	1.31	-1.01	2.06	1.45	1.51	1.37	1.23
365641 primase, polypeptide 1 (49kD)	1.57	-1.05	1.09	1.26	1.39	1.26	1.25
376184 insulin-like growth factor binding protein 3	-1.47	1.02	-1.06	-1.10	-1.34	-1.38	1.06
376504 zinc finger protein 161	1.00	1.05	-1.42	-1.38	-1.07	-1.07	1.01
377695 discs, large (Drosophila) homolog 5	1.04	1.11	1.53	1.37	1.43	1.44	1.19

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415639 serine/threonine kinase 15	1.10	-1.03	-1.00	1.19	2.04	1.79	1.19
416799 glycoprotein hormones, alpha polypeptide	-1.11	-1.06	-1.05	-1.14	-1.49	-1.30	1.05
416820 interferon-induced protein with tetratricopeptide repeats 1	-1.38	-1.23	-1.08	-1.16	-1.48	-1.13	-1.30
416917 7-dehydrocholesterol reductase	1.12	1.17	1.30	1.74	1.74	1.69	1.14
417125 7-dehydrocholesterol reductase	-1.11	1.32	1.31	1.96	1.99	2.03	1.30
417226 v-myc myelocytomatosis viral oncogene homolog (avian)	1.21	1.89	1.18	1.03	-1.07	-1.01	-1.08
417357 EST	-1.40	-1.60	-1.08	-1.19	-1.51	-1.43	-1.40
417503 uroporphyrinogen III synthase (congenital erythropoietic porphyria)	-1.12	-1.64	-1.04	-1.16	-1.48	-1.44	-1.34
417703 serine/threonine kinase 12	1.20	-1.02	1.01	1.40	1.90	1.54	1.24
428431 protein kinase (cAMP-dependent, catalytic) inhibitor beta	-1.77	-1.03	1.04	-1.01	-1.38	-1.35	1.00
428733 protein kinase C, delta	-1.29	1.16	1.30	-1.21	-1.39	-1.37	-1.44
429010 ESTs, Weakly similar to ubiquitous TPR motif, Y isoform [H.sapiens]	-1.34	-1.04	-1.26	-1.45	-1.68	-1.56	-1.60
429217 heat shock 10kD protein 1 (chaperonin 10)	1.37	-1.08	1.04	1.41	1.39	1.32	1.09
430235 H2B histone family, member Q	-1.11	1.02	-1.49	-1.80	-2.05	-1.66	-1.23
470480 Intersectin 1	1.36	1.05	1.23	1.33	1.37	1.51	1.47
470608 small nuclear ribonucleoprotein polypeptides B and B1	1.24	-1.02	-1.09	1.31	1.57	1.24	1.13
470621 cyclin-dependent kinase 7 (MO15 homolog, Xenopus laevis, cdk-activating kinase)	1.16	-1.15	1.07	-1.21	-1.27	-1.35	-1.44
470945 RAB31, member RAS oncogene family	1.75	-1.02	1.91	1.33	1.39	1.47	1.37
471258 mannose-6-phosphate receptor (cation dependent)	-1.28	-1.05	-1.49	-1.46	-1.62	-1.39	-1.24
484963 metallothionein 2A	-1.03	-1.04	-1.56	-1.86	-1.11	1.13	1.30
485875 EGF-containing fibulin-like extracellular matrix protein 1	1.05	1.12	-1.30	-1.85	-1.73	-1.71	-1.52
485943 serum-inducible kinase	-1.25	-1.35	-1.41	-1.47	-1.47	-1.61	-1.51
486434 growth arrest-specific 1	1.63	-1.08	1.03	1.02	-1.18	-1.02	1.11
487232 filamin B, beta (actin binding protein 278)	1.17	1.11	1.32	1.41	1.53	1.44	1.14
487407 insulin induced gene 1	1.03	1.02	-1.31	1.49	1.57	1.57	1.37
487416 insulin-like growth factor binding protein 4	2.34	-1.06	-1.02	-1.04	-1.04	1.04	-1.02
487757 ligase I, DNA, ATP-dependent	1.64	1.07	1.04	1.46	1.57	1.38	1.12
488059 tubulin, gamma 1	1.25	-1.01	1.07	1.49	1.88	1.55	1.08
488360 serine (or cysteine) proteinase inhibitor, clade A (alpha 1 antiproteinase, antitrypsin), member 3	1.74	-1.02	1.25	1.53	1.55	1.54	1.58
489175 acid phosphatase 1, soluble	1.37	1.16	1.88	1.67	1.56	1.83	-1.53
489282 TGFB inducible early growth response	-1.05	1.08	-1.02	-1.02	-1.32	-1.21	-1.02
489418 nuclear receptor interacting protein 1	1.71	1.16	1.28	1.14	1.25	1.27	1.29
489443 solute carrier family 25 (mitochondrial carrier, brain), member 14	1.62	1.21	1.37	1.25	1.38	1.45	1.32
509614 high-mobility group (nonhistone chromosomal) protein 1	1.35	1.06	-1.09	1.20	1.79	1.86	1.33
510006 interferon-induced protein with tetratricopeptide repeats 1	-1.39	-1.32	-1.15	-1.82	-1.80	-1.31	-1.38
510116 S100 calcium binding protein P	-1.53	-1.04	-1.06	-1.15	-1.25	-1.24	-1.16
510152 myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse)	-1.38	-1.11	-1.13	-1.56	-1.64	-1.06	-1.44

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510182 A kinase (PRKA) anchor protein 1	1.05	1.31	1.44	1.03	1.14	1.06	-1.12
510487 ornithine decarboxylase 1	1.02	1.01	-1.43	-1.41	-1.34	-1.22	1.08
510595 lactate dehydrogenase A	1.30	-1.08	1.00	1.25	1.45	1.74	1.51
527000 growth arrest and DNA-damage-inducible, beta	1.01	1.60	1.26	1.11	1.18	1.09	-1.03
530696 MCM7 minichromosome maintenance deficient 7 (S. cerevisiae)	2.21	1.39	1.21	1.99	2.23	2.29	1.43
545242 signal transducer and activator of transcription 1, 91kD	-1.27	1.14	-1.07	-1.69	-1.46	-1.17	-1.32
546256 interferon-stimulated protein, 15 kDa	-1.28	-1.15	-1.15	-1.55	-1.66	-1.09	-1.56
548131 EST	-1.16	-1.01	-1.04	-1.01	-1.28	-1.40	1.01
549296 ephrin-A1	-1.46	-1.07	-1.28	-1.42	-1.81	-1.62	-1.50
550464 amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease)	-1.25	1.17	-1.18	-1.32	-1.39	-1.03	1.06
563187 CDC6 cell division cycle 6 homolog (S. cerevisiae)	1.66	-1.03	1.26	1.67	1.49	1.62	1.25
563809 CDC20 cell division cycle 20 homolog (S. cerevisiae)	1.27	-1.18	-1.01	1.32	1.99	1.41	1.16
588492 Homo sapiens cDNA FLJ31637 fis, clone NT2RI2003487	-1.29	1.04	-1.20	-1.74	-1.84	-1.29	-1.25
588618 protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1)	-1.14	1.27	-1.04	-1.48	-1.31	-1.20	-1.07
589723 farnesyl-diphosphate farnesyltransferase 1	1.11	1.03	1.06	1.33	1.48	1.55	1.43
591098 polymerase (DNA directed), delta 1, catalytic subunit (125kD)	1.55	1.08	1.14	1.84	1.79	1.71	1.05
731233 H2A histone family, member Z	2.03	0.00	0.00	0.00	0.00	0.00	0.00
840567 transmembrane 4 superfamily member 1	-1.54	-1.09	-1.13	-1.15	-1.44	-1.20	-1.09
900300 jun B proto-oncogene	-1.26	-1.17	-1.12	-1.26	-1.53	-1.43	-1.42
1073271 tumor protein D52-like 1	2.03	0.00	0.00	0.00	0.00	0.00	0.00
1129704 trefoil factor 1 (breast cancer, estrogen-inducible sequ	3.29	0.00	0.00	0.00	0.00	0.00	0.00
1144761 low density lipoprotein receptor (familial hypercholesterolemia)	1.14	1.11	1.02	1.56	1.76	1.56	1.11
1870393 PDZ domain containing 1	1.54	0.00	0.00	0.00	0.00	0.00	0.00
1962234 DEK oncogene (DNA binding)	1.38	0.00	0.00	0.00	0.00	0.00	0.00
2232275 protein kinase H11	1.79	0.00	0.00	0.00	0.00	0.00	0.00
2578391 flap structure-specific endonuclease 1	1.61	0.00	0.00	0.00	0.00	0.00	0.00

Fold-induction of estrogen-regulated genes as determined by microarray. The first column provides the Unigene Clone ID number and the associated gene description (gene name) as of the current Unigene update on Feb. 11, 2002. The remaining columns contain the average fold-induction (positive numbers) or -repression (negative numbers) for all eight hybridizations that were performed on a given time point. Values that were determined to be statistically significant based on the strategy detailed in the Methods are highlighted in either red (induced) or green (repressed). Zero values indicate that these particular clones were not present on the ToxChip at the time of hybridization.