

Supplemental Table 1

Signal	Increased Ratio	Public ID	Gene Title	Gene Symbol
<b>Apoptosis-related genes</b>				
577.3	2.828	AV216351	Cd27 binding protein (Hindu God of destruction)	MGI:1353606
9582	2	AV274748	myeloid cell leukemia sequence 1	Mcl1
<b>Cell cycle and cell growth-related genes</b>				
1957.3	8	NM_009829	cyclin D2	Ccnd2
9982.1	2.639	BB386653	V-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)	ErbB4
191.1	2.639	AF104414	large tumor suppressor	Lats1
43440.3	2.144	BB392869	armadillo repeat containing, X-linked 2	Armcx2
7550.9	2.297	NM_010592	Jun proto-oncogene related gene d1	Jund1
552.9	3.249	BQ177165	trophoblast glycoprotein	Tpbg
54787.1	2.144	BE197350	mortality factor 4 like 1	Morf4l1
15197.5	2	BB249447	neccdin /// PCTAIRE-motif protein kinase 1	Ndn /// Pctk1
7409.8	2.462	BF225802	insulin-like growth factor binding protein 5	Igfbp5
932	3.732	BB241535	suppressor of cytokine signaling 3	Socs3
279.9	4.925	NM_008341	insulin-like growth factor binding protein 1	Igfbp1
<b>Chemokine-related genes</b>				
272.5	3.732	NM_023785	chemokine (C-X-C motif) ligand 7	Cxcl7
4236.1	6.063	D87747	chemokine (C-X-C motif) receptor 4	Cxcr4
586.5	4.925	BB124954	Chemokine (C-C motif) receptor 9	Ccr9
485	2.639	BB532202	fibromodulin	Fmod
5776.4	2.144	BM218838	Slit homolog 2 (Drosophila)	Slit2
<b>Cell structure, adhesion, cytoskeleton-related genes</b>				
1424	2.144	BB533095	syndecan 1	Sdc1
11467.8	3.482	NM_007393	actin, beta, cytoplasmic	Actb
6060.4	2.828	BB160417	coactosin-like 1 (Dictyostelium)	Cotl1
442.4	3.031	BB396016	engulfment and cell motility 1, ced-12 homolog (C. elegans)	Elmo1
197.9	32	AF218081	killer cell lectin-like receptor subfamily A, member 12	Klra12
855	2.297	A1429565	Neuritin 1	Nrn1
8832.8	2	BC028835	nuclear pore membrane protein 121	Pom121
2514.7	2.297	AV336001	pleckstrin homology domain containing, family H (with MyTH4 domain) member 1	Plekhh1
1497.4	3.732	BB386302	Microtubule-associated protein 2	Mtap2
40985.4	2	NM_007984	fascin homolog 1, actin bundling protein (Strongylocentrotus purpuratus)	Fscn1
124651	2.144	NM_011653	tubulin, alpha 1	Tuba1
<b>Intracellular metabolism-related genes</b>				
235.2	90.51	BB225177	Phosphoenolpyruvate carboxykinase 1, cytosolic	Pck1
266.5	11.314	NM_013792	alpha-N-acetylglucosaminidase (Sanfilippo disease IIIB)	Naglu
2814.7	2.297	BG067274	one cut domain, family member 1	Onecut1
555.1	3.482	BM228113	hyaluronic acid binding protein 4	Habp4
24831.8	6.498	BB504983	similar to phosphatidylserine decarboxylase /// RIKEN cDNA 9030221M09 gene	MGC65558
12524.8	2	BB464434	selenoprotein W, muscle 1	Sepw1
1274.1	2.144	AV292769	uroporphyrinogen decarboxylase	Urod
893.1	4.925	BC003305	lipoprotein lipase	Lpl
2397.7	2.462	NM_029787	diaphorase 1 (NADH)	Dia1
225.6	5.278	BB449626	5'-nucleotidase, cytosolic II	Nt5c2
1096.9	2	BB732183	phosphatidylinositol glycan, class H	Pigh
10996.4	2	BB458645	acid phosphatase-like 2	Acpl2
348.5	18.379	BB360745	sphingosine-1-phosphate phosphatase 2	Sgpp2
28099.8	2.144	AW558862	hexokinase 1 /// ribosomal protein L17 /// similar to Rpl17 protein	Hk1
701.8	2	AV259240	carbohydrate sulfotransferase 11 /// phosphatase and actin regulator 1	Chst11
315.3	9.849	AK005459	RIKEN cDNA 1600014K23 gene	1600014K23Rik
47585.8	2	BB454540	Myristoylated alanine rich protein kinase C substrate	Marcks
12468.7	2	BB272730	methionine adenosyltransferase II, alpha	Mat2a
840.1	2.144	B1905689	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10	Ndufb10
<b>RNA processing genes</b>				
6017	2.144	BB085604	RIKEN cDNA 2610031L17 gene	2610031L17Rik
3818.3	2.144	L36663	heterogeneous nuclear ribonucleoprotein A/B	Hnrpab
1749.1	2	AW228855	apoptotic chromatin condensation inducer 1	Acin1
1782.6	2.297	AF250135	splicing factor, arginine/serine-rich 2 (SC-35)	Sfrs2
536.7	2.462	A1449122	Tudor domain containing 3	Tdrd3
1530.7	2	BG064045	TruB pseudouridine (psi) synthase homolog 2 (E. coli)	Trub2
814.3	2.297	AW556977	poly(rC) binding protein 2	Pcbp2
36996.3	2.828	BB703394	Transcribed locus	---
1332.6	2.639	BB397392	protein phosphatase 1, regulatory (inhibitor) subunit 8	Ppp1r8
1630.7	2	BC025093	brix domain containing 1	Bxdc1
3122.8	2.297	NM_010717	LIM-domain containing, protein kinase	Limk1
2979.6	3.732	BB370469	mitogen activated protein kinase kinase kinase 12	Map3k12
1610.1	2	AV101824	ribonuclease T2	Rnaset2
847.5	2	BC020532	Rap guanine nucleotide exchange factor (GEF) 3	Rapgef3
379.5	2.297	BB667222	mitogen activated protein kinase kinase kinase kinase 2	Map4k2
<b>Protein modification and processing, translation-related genes</b>				
12693.8	2.297	AV124739	ribosomal protein L35	Rpl35
8647.6	2.297	BE993872	ribosomal protein L14	Rpl14
34126.1	2.144	BC010987	ribosomal protein S28	Rps28
5006	2.144	AV123618	ribosomal protein S21	Rps21
3730.6	2.144	NM_009091	ribosomal protein S15	Rps15
29309.8	2.144	A1413680	ribosomal protein S12	Rps12
23580.5	2.462	AA762498	ribosomal protein S9	Rps9
11209.6	2.462	AA208652	ribosomal protein S27	Rps27
4571.7	2.462	NM_011289	ribosomal protein L27	Rpl27
3260.4	2.297	BB000887	ribosomal protein S10	Rps10
6534.6	2.144	AV066985	ribosomal protein L37a	Rpl37a
39841.9	2.144	A1324936	ribosomal protein L13a	Rpl13a
1880	2.144	NM_016738	ribosomal protein L13	Rpl13
66077.2	2.144	AU015377	eukaryotic translation initiation factor 4, gamma 2	Eif4g2
1535.2	4.287	BM121819	Eukaryotic translation initiation factor 2, subunit 3, structural gene Y-linked	Eif2s3y
1549.9	2.297	BM120823	eukaryotic translation initiation factor 4E member 2	Eif4e2
16925.9	2.462	NM_011029	laminin receptor 1 (ribosomal protein SA)	Lamr1
1875.1	2.828	NM_007990	Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed (fox derived)	Fau
974.1	2.297	B1689507	pumilio 2 (Drosophila)	Pum2
77108.3	2	NM_133354	SMT3 suppressor of mif two 3 homolog 2 (yeast)	Sumo2

7581.5	2	AV209126	signal recognition particle 14	Srp14
4363.4	2.144	AV157500	translocator of inner mitochondrial membrane 17b	Timm17b
7751.3	2.297	AV347477	S-phase kinase-associated protein 1A	Skp1a
1416.6	2.144	AV102733	serine carboxypeptidase 1	Scepep1
645.2	2	AI649104	RIKEN cDNA 4930453N24 gene	4930453N24Rik
1100.2	2	AI152156	proliferation-associated 2G4	Pa2g4
2593.2	2.828	AV300794	poly(rC) binding protein 4	Pcbp4
4276.7	2	BI666155	guanine nucleotide binding protein-like 2 (nucleolar)	Gnl2
3312.9	2.144	AV021593	mitochondrial ribosomal protein L52	Mrpl52
<b>Signal transduction-related genes</b>				
243.7	64	AB013898	tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin)	Tnfrsf11b
548.6	2.144	BC013820	rhotekin	Rtkn
2309.5	2.144	BB175009	Fibroblast growth factor 14	Fgf14
1849.9	2.639	BB550124	transglutaminase 2, C polypeptide	Tgm2
1277.6	2.144	BG071242	Muskelin 1, intracellular mediator containing kelch motifs	Mkln1
242.6	8.574	BI966456	Chordin-like 1	Chrdl1
888.5	2.462	NM_009062	regulator of G-protein signaling 4	Rgs4
8236	2.144	BM118129	Odd Oz/ten-m homolog 3 (Drosophila)	Odz3
2299.6	2.462	AV209892	protein kinase inhibitor, gamma	PkiG
13290.2	2	BB248904	SH3-binding domain glutamic acid-rich protein like	Sh3bgrl
2169.9	2	BB529038	dorso-medial telencephalon gene 2	Dmt2
3939.2	2.639	NM_018884	PDZ domain containing RING finger 3	Pdzm3
29395.9	4.287	NM_023879	retinitis pigmentosa GTPase regulator interacting protein 1	Rpgrip1
4728.9	2.462	AV349116	Rho GTPase activating protein 11A	Arngap11a
7046.7	2	BG065186	PDGFA associated protein 1	Pdap1
37989	2.144	BC025837	SH3-binding kinase 1	Sbk1
197379	2	AFX-MURINE	ankyrin repeat and FYVE domain containing 1 /// catechol-O-methyltransferase	Ankyf1
<b>DNA replication, transcription, transcription regulation-related genes</b>				
974.3	4.595	AF127244	jumonji, AT rich interactive domain 1D (Rbp2 like)	Jarid1d
909.2	4	NM_013702	Unc4.1 homeobox (C. elegans)	Uncx4.1
5492.7	3.249	NM_009718	neurogenin 2	Neurog2
507.7	3.031	AK008173	NK6 transcription factor related, locus 2 (Drosophila)	Nkx6-2
333.8	3.031	AA407331	MAD homolog 2 (Drosophila)	Smad2
817	2.297	W91024	histone 1, H2ad	Hist1h2ad
2143.8	2.828	BB175494	transcription factor 7-like 2, T-cell specific, HMG-box	Tcf7l2
15813.9	2.639	AV127023	high mobility group box 1	Hmgb1
7955.4	2.144	AI648759	high mobility group box 1	Hmgb1
954.2	2.828	BB168668	general transcription factor II H, polypeptide 4	Gtf2h4
1582.5	2.144	BB099487	minichromosome maintenance deficient 6 (MIS5 homolog, S. pombe) (S. cerevisiae)	Mcm6
79032.6	2.639	BB252350	H3 histone, family 3A	H3f3a
1415.2	2.639	NM_030082	histone 3, H2ba	Hist3h2ba
1657.1	4.287	AA210261	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	Ddx3y
67673.1	2	BB476615	DEAD (Asp-Glu-Ala-Asp) box polypeptide 17	Ddx17
9197.6	2.462	BB468410	CDNA sequence BC024760	Insm1
462	2.639	BI735871	zinc finger protein 28	Zfp28
3769.1	2.462	NM_010134	engrailed 2	En2
1974.1	2	BB739342	Sal-like 1 (Drosophila)	Sall1
2568.7	2.297	U80011	paired-like homeodomain transcription factor 2	Pitx2
1769.8	2.144	BB238427	ring finger protein 26	Rnf26
294.9	2.144	AK020027	RB1-inducible coiled-coil 1	Rb1cc1
1771.3	2.297	BC017609	orthodenticle homolog 2 (Drosophila)	Otx2
944.4	3.482	BE980601	Chromodomain helicase DNA binding protein 7	Chd7
4111.8	2.144	BG072739	SRY-box containing gene 11	Sox11
6812.2	2.639	BB292639	doublesex and mab-3 related transcription factor like family A2	Dmrt2
2576	2.144	BB561515	hairy and enhancer of split 5 (Drosophila)	Hes5
1933.7	2.144	NM_010446	forkhead box A2	Foxa2
841.9	2	AK019181	transcription elongation factor B (SIII), polypeptide 2	Tceb2
636.9	2.297	NM_010150	nuclear receptor subfamily 2, group F, member 6	Nr2f6
2524.7	2.639	BM116592	neurogenic differentiation 1	Neurod1
192.3	18.379	BB227141	zinc finger protein 367	Zfp367
897.3	4.925	NM_011376	single-minded homolog 1 (Drosophila)	Sim1
179	6.0628	NM_008852	paired-like homeodomain transcription factor 3	Pitx3
<b>Transport-related genes</b>				
1614.6	3.031	AV334638	solute carrier family 18 (vesicular monoamine), member 2	Slc18a2
730.1	25.992	NM_010020	solute carrier family 6 (neurotransmitter transporter, dopamine), member 3	Slc6a3
361.4	17.148	AW545361	Der1-like domain family, member 1	Der1
4221.8	5.657	NM_009946	complexin 2	Cplx2
1553.9	3.249	BB448377	solute carrier family 4 (anion exchanger), member 1	Slc4a1
227.8	13.929	BI714072	Metaxin 2	Mtx2
675.4	5.657	BB528233	Ubiquitously transcribed tetratricopeptide repeat gene, Y chromosome	Uty
4926.5	2.639	BM207588	solute carrier family 2 (facilitated glucose transporter), member 1	Slc2a1
312.4	17.148	BQ176550	synaptotagmin-like homologue lacking C2 domains b	MGI:2443248
782.7	2.639	AV047063	aquaporin 11	Aqp11
21548.9	2.144	BF537798	receptor (calcitonin) activity modifying protein 2	Ramp2
968.7	2	BB206460	phosphatidylinositol membrane-associated 1	Pitpnm1
3328.6	3.732	AI591480	phospholipid transfer protein	Pitp
852.4	2	BB514802	DNA segment, Chr 11, ERATO Doi 333, expressed	D11ErtD333e
258.1	9.19	BB822932	Translocase of outer mitochondrial membrane 70 homolog A (yeast)	Tom70a
2085.8	4.925	AV311770	hemoglobin Z, beta-like embryonic chain	Hbb-bh1
80790.5	2	AV156860	hemoglobin Y, beta-like embryonic chain	Hbb-y
276	9.849	NM_023146	RAN binding protein 17	Ranbp17
1345.5	3.031	BB041811	transglutaminase 2, C polypeptide	Tgm2
2170.5	2	BB059395	cDNA sequence BC019806	BC019806
3158	2.297	NM_007507	ATP synthase, H+ transporting, mitochondrial F1F0 complex, subunit e	Atp5k
687.4	4.925	BB207470	Ubiquitously transcribed tetratricopeptide repeat gene, Y chromosome	Uty
<b>Others</b>				
5076.8	2.297	NM_009148	SEC8-like 1 (S. cerevisiae)	Sec8l1
231.5	36.758	AV205680	RIKEN cDNA 1700029M03 gene	1700029M03Rik
212.8	36.758	AV260651	Gene model 994, (NCBI)	---
364.6	22.627	BB432090	gene model 1574, (NCBI)	Gm1574
204.1	13.929	BG068960	---	---
375.2	12.126	AK015487	RIKEN cDNA 4930459C07 gene	4930459C07Rik
497.8	11.314	AK020441	RIKEN cDNA 9430027B09 gene	9430027B09Rik

211.2	8.574	BB022314	Adult male pituitary gland cDNA, RIKEN full-length enriched library, clone:5330410G21	---
310.4	8.574	AW122064	7 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:A730099H18	---
5575.4	8.574	AK007420	RIKEN cDNA 4933439C20 gene	4933439C20Rik
864.2	5.657	A1646809	RIKEN cDNA 1500026D16 gene	1500026D16Rik
590.2	5.657	AK011834	---	---
425.2	5.278	BB548287	---	---
836.7	4	BB450758	RIKEN cDNA 1810038L18 gene	1810038L18Rik
360.8	3.732	BB432681	RIKEN cDNA 5730513H21 gene	5730513H21Rik
4465.1	3.249	AK013658	RIKEN cDNA 2900046L07 gene	2900046L07Rik
380.3	3.249	AK005221	RIKEN cDNA 2610206C24 gene	2610206C24Rik
260.7	3.249	BC027195	---	---
256.8	3.031	BB371300	hypothetical LOC434179	LOC434179
2658.6	3.031	BE991235	---	---
771.6	2.828	BB281667	RIKEN cDNA C630016O21 gene	C630016O21Rik
421.5	2.828	AV171622	RIKEN cDNA 3300001H21 gene	3300001H21Rik
1141.9	2.828	BE824538	hypothetical protein E130304D01	E130304D01
703.2	2.828	BB710625	0 day neonate eyeball cDNA, RIKEN full-length enriched library, clone:E130307M10	---
4592.4	2.828	AF071068	---	---
751.7	2.639	BB028755	RIKEN cDNA 5430417L22 gene	5430417L22Rik
1042.4	2.639	BC024599	RIKEN cDNA 2810003C17 gene	2810003C17Rik
568.8	2.639	BB545511	0 day neonate eyeball cDNA, RIKEN full-length enriched library, clone:E130304P04	---
5450	2.639	BB164501	---	---
603.4	2.639	BE981473	---	---
3452.7	2.639	AV312368	---	---
12937.4	2.639	BE824713	---	---
2058.5	2.639	C80220	---	---
728.8	2.462	BB410295	RIKEN cDNA 9830127L17 gene	9830127L17Rik
5755.5	2.462	BB520013	RIKEN cDNA 6430550H21 gene	6430550H21Rik
1902.2	2.462	BB009277	RIKEN cDNA 5730410E15 gene	5730410E15Rik
813.9	2.462	BG067392	RIKEN cDNA 2610028F08 gene	2610028F08Rik
9482.3	2.462	BB131676	RIKEN cDNA 1500012D20 gene	1500012D20Rik
775.5	2.462	AK005121	RIKEN cDNA 1500002K03 gene	1500002K03Rik
5704	2.462	BB224153	expressed sequence A1114950	A1114950
3667.8	2.462	AV216370	---	---
375.1	2.462	BE988990	---	---
511	2.297	BM207556	RIKEN cDNA 2900045N06 gene	2900045N06Rik
611.9	2.297	AK019929	RIKEN cDNA 2900002G04 gene	2900002G04Rik
817.3	2.297	BF225441	RIKEN cDNA 2210010L05 gene	2210010L05Rik
1850	2.297	BE992311	RIKEN cDNA 1110025L05 gene	1110025L05Rik
11663.6	2.297	AK002371	RIKEN cDNA 0610009C03 gene	0610009C03Rik
21976.7	2.297	BB271021	CDNA sequence AB023957	AB023957
18222.7	2.297	AV111078	---	---
13796.8	2.297	AV170241	---	---
65883.5	2.297	BB369191	---	---
2698.7	2.297	AV212294	---	---
1084.5	2.297	BB469763	---	---
1734.5	2.297	BB227199	---	---
6751	2.297	BB380053	---	---
9700.2	2.144	A1853644	RIKEN cDNA 9430072K23 gene	9430072K23Rik
3294.2	2.144	AK011167	RIKEN cDNA 5930416I19 gene	5930416I19Rik
765.5	2.144	AA185884	RIKEN cDNA 5730488B01 gene	5730488B01Rik
3283.9	2.144	AV218922	RIKEN cDNA 2610002J02 gene	2610002J02Rik
2028.1	2.144	BB461323	RIKEN cDNA 1200015N20 gene	1200015N20Rik
483.5	2.144	NM_013788	paternally expressed 12	Peg12
5977.4	2.144	AV216686	---	---
4397.6	2.144	AV117555	---	---
1449.5	2.144	BI653033	---	---
41912	2.144	BB453676	---	---
1173.3	2.144	AV333371	---	---
10237.5	2	BG070683	Transcribed locus, weakly similar to XP_510868.1	---
947.5	2	BB397841	Transcribed locus	---
1827.2	2	AV267590	RIKEN cDNA 5730494M16 gene	5730494M16Rik
226	2	NM_054100	RIKEN cDNA 2310034C09 gene	2310034C09Rik
2336.1	2	BB541793	cDNA sequence BC059842	BC059842
2343.2	2	BB158599	16 days neonate thymus cDNA, RIKEN full-length enriched library, clone	---
4742.8	2	C80049	---	---
988	2	NM_021416	---	---
10511.3	2	BB422726	---	---
5185.8	2	AV023830	---	---