

### **Legends for Supplementary Data**

Supplementary Table S1. List of DEGs among the normal, sham, and MSC groups with one-way analysis of variance analysis (ANOVA).

<sup>a</sup> Probe ID of the Agilent rat mRNA microarray chip (SurePrint G3 Rat Gene Expression 8x60k, Agilent Inc., Santa Clara, CA, USA)

<sup>b</sup> *p*-value of ANOVA after Benjamini-Hochberg's multiple testing correction

Abbreviations: FD, fold difference; NL, normal group

Supplementary Table S2. List of DEGs between the MSC and sham groups.

<sup>a</sup> Probe ID of Agilent rat mRNA microarray chip (SurePrint G3 Rat Gene Expression 8x60k, Agilent Inc., Santa Clara, CA, USA)

Abbreviation: FD, fold difference

Supplementary Table 1. List of differentially expressed genes using among normal group, sham group and MSC group using one-way analysis of variance analysis (ANOVA)

Probe ID <sup>a</sup>	Gene symbol	Gene name	ANOVA	Sham vs. NL		MSC .vs NL		MSC vs. sham	
			<i>p</i> <sup>b</sup>	FD <sup>c</sup>	<i>p</i>	FD <sup>c</sup>	<i>p</i>	FD <sup>c</sup>	<i>p</i>
A_44_P990376	Gpnmb	glycoprotein (transmembrane) nmb	5.26E-03	7.56	3.40E-04	3.06	2.11E-02	-2.47	6.26E-02
A_44_P342289	H19	H19, imprinted maternally expressed transcript (non-protein coding)	3.96E-02	7.53	7.88E-03	3.16	1.15E-01	-2.38	2.66E-01
A_64_P059728			4.06E-03	7.45	2.18E-04	3.04	1.56E-02	-2.45	5.09E-02
A_44_P491796	Spp1	secreted phosphoprotein 1	1.35E-02	6.94	1.64E-03	3.37	2.87E-02	-2.06	2.27E-01
A_64_P105477	Fcrls	Fc receptor-like S, scavenger receptor	4.51E-02	6.43	1.04E-02	3.35	8.11E-02	-1.92	4.33E-01
A_43_P12698	Lgals3	lectin, galactoside-binding, soluble, 3	3.80E-03	6.24	1.96E-04	2.64	1.91E-02	-2.36	3.71E-02
A_44_P461154	Timp1	TIMP metalloproteinase inhibitor 1	9.48E-04	5.64	1.52E-05	1.96	2.60E-02	-2.88	1.13E-03
A_64_P158653	Knstrn	kinetochore-localized astrin/SPAG5 binding protein	1.97E-03	5.23	6.18E-05	2.08	2.70E-02	-2.51	6.48E-03
A_64_P045922	Clec12a	C-type lectin domain family 12, member A	1.47E-03	4.96	3.60E-05	2.12	1.41E-02	-2.34	6.28E-03
A_64_P098921	Cdca3	cell division cycle associated 3	2.92E-03	4.81	1.23E-04	2.11	2.68E-02	-2.28	1.51E-02
A_42_P580844	Cdk1	cyclin-dependent kinase 1	1.29E-03	4.77	2.80E-05	1.96	2.02E-02	-2.43	3.19E-03
A_64_P078332	Glycam1	glycosylation dependent cell adhesion molecule 1	1.36E-02	4.73	1.90E-03	1.60	3.75E-01	-2.96	1.73E-02
A_64_P001741	Ccna2	cyclin A2	1.54E-03	4.70	4.00E-05	2.02	1.87E-02	-2.33	5.43E-03
A_64_P038107	Apobec1	apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1	6.80E-04	4.59	7.11E-06	1.90	1.05E-02	-2.41	9.81E-04
A_64_P001740	Ccna2	cyclin A2	2.47E-03	4.58	8.95E-05	2.10	1.97E-02	-2.18	1.41E-02
A_44_P992908	Hspb1	heat shock protein 1	4.38E-02	4.56	8.92E-03	2.14	1.88E-01	-2.14	1.88E-01

A_44_P103229 6	Capg	capping protein (actin filament), gelsolin-like	3.62E-03	4.45	1.81E-04	2.04	3.27E-02	-2.18	1.97E-02
A_64_P019260	Cd68	Cd68 molecule	3.96E-03	4.42	2.09E-04	2.24	1.73E-02	-1.97	4.39E-02
A_43_P11489	S100a4	S100 calcium-binding protein A4	4.81E-03	4.33	2.90E-04	2.12	2.89E-02	-2.04	3.85E-02
A_64_P048183	Ckap2	cytoskeleton associated protein 2	3.98E-03	4.27	2.11E-04	1.96	4.14E-02	-2.18	1.85E-02
A_64_P104009	Rrm2	ribonucleotide reductase M2	3.11E-03	4.19	1.36E-04	2.01	2.46E-02	-2.08	1.87E-02
A_44_P469584	Cd14	CD14 molecule	9.52E-03	4.07	8.65E-04	1.99	6.56E-02	-2.04	5.63E-02
A_64_P163822	Cks2	CDC28 protein kinase regulatory subunit 2	2.12E-03	3.95	7.15E-05	1.86	2.61E-02	-2.12	8.06E-03
A_64_P002854	Ckap2	cytoskeleton associated protein 2	1.00E-02	3.92	9.35E-04	1.96	6.63E-02	-1.99	6.05E-02
A_42_P714311	Ccl3	chemokine (C-C motif) ligand 3	5.88E-03	3.89	3.97E-04	2.04	3.15E-02	-1.91	5.03E-02
A_43_P11142	S100a11	S100 calcium binding protein A11	5.36E-04	3.82	4.28E-06	1.73	9.75E-03	-2.21	5.30E-04
A_42_P638620	Lcn2	lipocalin 2	1.22E-02	3.81	1.29E-03	2.00	6.42E-02	-1.91	8.71E-02
A_44_P104271 1	Kif20a	kinesin family member 20A	1.16E-03	3.77	2.34E-05	1.73	2.40E-02	-2.18	2.12E-03
A_64_P147871	S100a11	S100 calcium binding protein A11	6.11E-04	3.76	5.60E-06	1.73	1.04E-02	-2.17	7.21E-04
A_64_P117363			1.97E-03	3.75	6.13E-05	1.84	2.15E-02	-2.04	8.09E-03
A_64_P036925	Cp	ceruloplasmin (ferroxidase)	7.76E-04	3.75	9.10E-06	1.76	1.14E-02	-2.14	1.26E-03
A_64_P148906	Aspg	asparaginase homolog ( <i>S. cerevisiae</i> )	1.93E-02	3.75	2.59E-03	1.87	1.27E-01	-2.00	8.81E-02
A_44_P102245 8	Tubb6	tubulin, beta 6 class V	1.33E-02	3.73	1.47E-03	2.05	5.56E-02	-1.83	1.14E-01
A_42_P788740	Folr2	folate receptor 2 (fetal)	2.62E-03	3.71	9.87E-05	1.95	1.58E-02	-1.90	1.99E-02
A_64_P147868 1	RGD156358	similar to S100 calcium binding protein A11 (calizzarin)	6.22E-04	3.68	5.86E-06	1.71	1.10E-02	-2.15	7.23E-04

A_64_P060291	Glipr1	GLI pathogenesis-related 1	4.17E-03	3.64	2.25E-04	1.97	2.25E-02	-1.85	3.70E-02
A_64_P068353	Mki67	antigen identified by monoclonal antibody Ki-67	1.00E-03	3.58	1.56E-05	1.74	1.43E-02	-2.06	2.08E-03
A_64_P163919	Mki67	antigen identified by monoclonal antibody Ki-67	6.72E-04	3.51	7.49E-06	1.59	2.33E-02	-2.20	4.98E-04
A_42_P577431	Bcl3	B-cell CLL/lymphoma 3	8.22E-03	3.47	7.00E-04	1.98	3.36E-02	-1.75	8.66E-02
A_64_P153552	LOC100362296	protein S100-A11-like	1.73E-03	3.46	4.87E-05	1.75	2.10E-02	-1.97	6.20E-03
A_42_P818287	Nusap1	nucleolar and spindle associated protein 1	7.32E-04	3.45	8.49E-06	1.64	1.63E-02	-2.10	8.19E-04
A_42_P572521	C5ar1	complement component 5a receptor 1	1.76E-02	3.43	2.42E-03	2.12	4.37E-02	-1.62	2.24E-01
A_43_P14233	Pttg1	pituitary tumor-transforming 1	1.78E-03	3.42	5.15E-05	1.72	2.56E-02	-1.99	5.45E-03
A_42_P509365	Vim	vimentin	2.10E-03	3.39	7.05E-05	1.72	2.82E-02	-1.97	7.32E-03
A_43_P11370	Plp2	proteolipid protein 2 (colonic epithelium-enriched)	9.57E-04	3.33	1.47E-05	1.68	1.46E-02	-1.99	1.89E-03
A_42_P676304	Ifitm1	interferon induced transmembrane protein 1	1.83E-02	3.31	2.58E-03	2.08	4.35E-02	-1.59	2.38E-01
A_64_P053012	Cd163	CD163 molecule	3.89E-02	3.27	9.06E-03	1.43	5.15E-01	-2.29	5.44E-02
A_64_P095920	Ccl6	chemokine (C-C motif) ligand 6	1.54E-03	3.26	4.50E-05	1.54	6.11E-02	-2.12	1.92E-03
A_43_P16707	Ccl6	chemokine (C-C motif) ligand 6	1.24E-03	3.26	2.88E-05	1.54	5.00E-02	-2.12	1.35E-03
A_64_P025753	Bub1	budding uninhibited by benzimidazoles 1 homolog (yeast)	1.34E-03	3.25	3.03E-05	1.68	1.90E-02	-1.94	3.74E-03
A_42_P458530	Ripk3	receptor-interacting serine-threonine kinase 3	8.93E-03	3.21	8.11E-04	1.95	3.01E-02	-1.65	1.12E-01
A_44_P822041	LOC685108	similar to proteolipid protein 2	1.69E-03	3.20	4.71E-05	1.68	2.31E-02	-1.91	5.40E-03
A_44_P550662	Ms4a6a	membrane-spanning 4-domains, subfamily A, member 6A	1.78E-03	3.19	5.18E-05	1.65	2.83E-02	-1.93	4.96E-03
A_43_P11472	Hmox1	heme oxygenase (decycling) 1	1.09E-02	3.18	1.06E-03	1.80	6.38E-02	-1.77	7.20E-02

A_42_P576823	Mki67	antigen identified by monoclonal antibody Ki-67	7.05E-04	3.18	7.96E-06	1.59	1.54E-02	-2.00	7.94E-04
A_64_P016810	Myo1f	myosin IF	4.25E-03	3.14	2.34E-04	1.79	2.70E-02	-1.76	3.23E-02
A_42_P544601	Tspo	translocator protein	5.40E-03	3.13	3.48E-04	1.82	2.92E-02	-1.72	4.69E-02
A_43_P14872	Sdc1	syndecan 1	2.41E-02	3.11	3.66E-03	1.86	8.83E-02	-1.67	1.75E-01
A_64_P052745	Mcm3	minichromosome maintenance complex component 3	2.04E-03	3.10	6.49E-05	1.69	2.14E-02	-1.83	8.73E-03
A_64_P051322	Ncf1	neutrophil cytosolic factor 1	4.19E-03	3.08	2.27E-04	1.76	2.84E-02	-1.75	2.96E-02
A_42_P520891	Prc1	protein regulator of cytokinesis 1	3.36E-03	3.04	1.60E-04	1.65	4.19E-02	-1.84	1.32E-02
A_64_P048461	Mcm3	minichromosome maintenance complex component 3	1.06E-03	3.03	1.82E-05	1.60	1.79E-02	-1.90	2.05E-03
A_42_P735417	Fcgr2b	Fc fragment of IgG, low affinity IIb, receptor (CD32)	2.27E-03	3.03	7.92E-05	1.68	2.32E-02	-1.81	1.03E-02
A_43_P17697	Ms4a6b	membrane-spanning 4-domains, subfamily A, member 6B	2.21E-03	3.00	7.69E-05	1.63	3.02E-02	-1.84	7.61E-03
A_44_P306439	Fcgr3a	Fc fragment of IgG, low affinity IIIa, receptor	3.59E-03	2.99	1.77E-04	1.68	3.35E-02	-1.78	1.87E-02
A_43_P11879	Htr2b	5-hydroxytryptamine (serotonin) receptor 2B, G protein-coupled	7.33E-03	2.98	5.76E-04	1.77	3.88E-02	-1.68	6.15E-02
A_64_P166385	Kifc1	kinesin family member C1	4.73E-04	2.94	3.45E-06	1.50	1.51E-02	-1.97	2.66E-04
A_64_P018781	Calcb	calcitonin-related polypeptide, beta	8.31E-03	2.94	7.01E-04	1.68	6.45E-02	-1.75	4.57E-02
A_42_P839964	Plin2	perilipin 2	3.80E-03	2.93	1.95E-04	1.74	2.16E-02	-1.68	3.26E-02
A_44_P993328	Ms4a11	membrane-spanning 4-domains, subfamily A, member 11	3.70E-03	2.93	1.87E-04	1.69	2.96E-02	-1.73	2.26E-02
A_64_P044663	Rac2	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)	3.44E-03	2.91	1.62E-04	1.70	2.45E-02	-1.71	2.32E-02
A_43_P11616	Atf3	activating transcription factor 3	1.51E-02	2.90	1.90E-03	1.91	3.76E-02	-1.52	2.06E-01
A_64_P126065	Hcst	hematopoietic cell signal transducer	6.69E-04	2.89	7.15E-06	1.51	1.77E-02	-1.91	6.06E-04

A_42_P738549	Napsa	napsin A aspartic peptidase	3.04E-02	2.88	5.59E-03	1.93	6.70E-02	-1.49	3.16E-01
A_44_P234129	Dlgap5	discs, large (Drosophila) homolog-associated protein 5	1.41E-03	2.87	3.42E-05	1.56	2.57E-02	-1.84	3.23E-03
A_42_P822726	Myo1g	myosin IG	1.48E-02	2.86	1.89E-03	1.93	3.15E-02	-1.48	2.37E-01
A_43_P11614	Anxa1	annexin A1	3.82E-04	2.85	2.08E-06	1.51	8.04E-03	-1.89	2.35E-04
A_64_P080817	Cd44	Cd44 molecule	1.55E-02	2.85	1.95E-03	1.86	4.36E-02	-1.53	1.86E-01
A_42_P581001	S100a6	S100 calcium binding protein A6	7.95E-04	2.84	9.97E-06	1.50	2.04E-02	-1.89	8.21E-04
A_44_P286788	Ncf4	neutrophil cytosolic factor 4	6.38E-03	2.84	4.53E-04	1.70	3.81E-02	-1.66	4.82E-02
A_44_P465931	Clic1	chloride intracellular channel 1	5.24E-03	2.82	3.39E-04	1.59	6.27E-02	-1.77	2.10E-02
A_44_P445070	Lgals1	lectin, galactoside-binding, soluble, 1	2.72E-03	2.80	1.15E-04	1.51	6.14E-02	-1.86	5.97E-03
A_44_P463313	Plk1	polo-like kinase 1	1.70E-03	2.77	4.78E-05	1.56	2.55E-02	-1.77	4.98E-03
A_64_P050303	Spc25	SPC25, NDC80 kinetochore complex component, homolog (S. cerevisiae)	2.47E-03	2.76	9.56E-05	1.51	5.19E-02	-1.83	5.72E-03
A_42_P712191	Gins1	GINS complex subunit 1 (Psf1 homolog)	1.12E-03	2.76	2.29E-05	1.46	3.92E-02	-1.89	1.28E-03
A_42_P517399	Emp3	epithelial membrane protein 3	3.45E-03	2.75	1.64E-04	1.64	2.72E-02	-1.68	2.12E-02
A_44_P552830	A3galt2	alpha 1,3-galactosyltransferase 2	1.32E-02	2.72	1.44E-03	1.65	7.94E-02	-1.65	7.88E-02
A_64_P108200	Kif22	kinesin family member 22	2.73E-03	2.71	1.11E-04	1.54	4.12E-02	-1.76	8.68E-03
A_42_P843603	Tk1	thymidine kinase 1, soluble	1.66E-03	2.71	4.81E-05	1.50	3.69E-02	-1.81	3.46E-03
A_42_P468216	Ifi30	interferon gamma inducible protein 30	7.18E-03	2.69	5.66E-04	1.75	2.60E-02	-1.54	8.84E-02
A_44_P260072	Tbxas1	thromboxane A synthase 1, platelet	2.31E-02	2.69	3.60E-03	1.81	6.00E-02	-1.49	2.42E-01
A_64_P162764			2.86E-03	2.69	1.34E-04	1.42	1.06E-01	-1.89	4.06E-03

A_64_P148321	Nes	nestin	1.87E-03	2.68	5.73E-05	1.53	2.90E-02	-1.75	5.49E-03
A_64_P123603	Mt1a	metallothionein 1a	4.10E-03	2.67	2.54E-04	1.41	1.44E-01	-1.89	6.10E-03
A_44_P807058	Emp1	epithelial membrane protein 1	8.38E-03	2.66	7.07E-04	1.66	4.71E-02	-1.60	6.33E-02
A_44_P339798	Hist1h1b	histone cluster 1, H1b	2.63E-03	2.65	1.08E-04	1.48	5.96E-02	-1.80	5.71E-03
A_44_P428420	Ctsz	cathepsin Z	8.94E-03	2.65	7.89E-04	1.65	5.07E-02	-1.61	6.60E-02
A_44_P1020422	Nes	nestin	1.97E-03	2.65	6.01E-05	1.57	2.03E-02	-1.68	8.33E-03
A_64_P147373	Gja5	gap junction protein, alpha 5	3.47E-04	2.64	3.81E-06	1.17	3.47E-01	-2.25	1.69E-05
A_44_P360772	Tagln	transgelin	1.59E-04	2.61	3.66E-07	1.30	2.96E-02	-2.01	8.06E-06
A_64_P049619	Gpr183	G protein-coupled receptor 183	3.54E-02	2.60	8.10E-03	1.97	4.61E-02	-1.32	5.32E-01
A_64_P066979	Hist1h1b	histone cluster 1, H1b	4.17E-03	2.60	2.35E-04	1.49	7.21E-02	-1.75	1.19E-02
A_43_P11819	Ctsc	cathepsin C	9.52E-03	2.59	8.63E-04	1.62	5.83E-02	-1.60	6.33E-02
A_42_P807697	Tyrobp	Tyro protein tyrosine kinase binding protein	7.99E-03	2.58	6.69E-04	1.68	3.30E-02	-1.53	8.41E-02
A_42_P483564	Ptprc	protein tyrosine phosphatase, receptor type, C	1.07E-02	2.58	1.08E-03	1.74	3.21E-02	-1.48	1.40E-01
A_43_P11749	Hck	hemopoietic cell kinase	5.79E-03	2.57	3.89E-04	1.64	3.13E-02	-1.57	4.94E-02
A_64_P026517	Parvg	parvin, gamma	7.94E-03	2.56	6.47E-04	1.62	4.71E-02	-1.59	5.75E-02
A_44_P226597	Pycard	PYD and CARD domain containing	4.11E-03	2.56	2.23E-04	1.52	5.21E-02	-1.69	1.56E-02
A_64_P104538	Ttk	Ttk protein kinase	7.98E-04	2.56	1.00E-05	1.46	1.70E-02	-1.75	9.81E-04
A_44_P577090	Rad51	RAD51 homolog (S. cerevisiae)	1.34E-03	2.56	3.22E-05	1.44	3.81E-02	-1.77	2.02E-03
A_42_P471271	Ptpn6	protein tyrosine phosphatase, non-receptor type 6	6.26E-03	2.55	4.40E-04	1.63	3.49E-02	-1.57	5.09E-02

A_42_P565275	Aspm	asp (abnormal spindle) homolog, microcephaly associated (Drosophila)	1.22E-03	2.55	2.48E-05	1.53	1.43E-02	-1.67	3.83E-03
A_64_P083309			3.43E-02	2.55	6.63E-03	1.78	7.87E-02	-1.44	3.19E-01
A_44_P344346	Arpc1b	actin related protein 2/3 complex, subunit 1B	6.04E-03	2.54	4.27E-04	1.50	8.09E-02	-1.70	2.09E-02
A_64_P101301	Clec4a3	C-type lectin domain family 4, member A3	4.22E-03	2.54	2.33E-04	1.53	4.71E-02	-1.66	1.83E-02
A_44_P500708	C1qc	complement component 1, q subcomponent, C chain	3.88E-03	2.54	2.04E-04	1.53	4.54E-02	-1.66	1.62E-02
A_64_P071495	Actg2	actin, gamma 2, smooth muscle, enteric	1.48E-02	2.54	2.27E-03	1.30	4.38E-01	-1.95	1.67E-02
A_43_P12519	S100a10	S100 calcium binding protein A10	1.45E-02	2.53	1.69E-03	1.54	1.14E-01	-1.65	6.41E-02
A_44_P518500	Racgap1	Rac GTPase-activating protein 1	5.58E-03	2.51	3.65E-04	1.57	4.07E-02	-1.59	3.55E-02
A_64_P164804	Gpr18	G protein-coupled receptor 18	1.98E-02	2.51	2.81E-03	1.72	5.48E-02	-1.46	2.11E-01
A_64_P005576	Anxa2	annexin A2	4.03E-04	2.49	2.39E-06	1.42	9.90E-03	-1.75	2.36E-04
A_64_P134741	Hcls1	hematopoietic cell specific Lyn substrate 1	1.43E-03	2.48	3.48E-05	1.47	2.53E-02	-1.69	3.35E-03
A_64_P071973	Fcgr2b	Fc fragment of IgG, low affinity IIb, receptor (CD32)	3.66E-03	2.47	1.83E-04	1.56	2.79E-02	-1.58	2.34E-02
A_64_P136571	Ssc5d	scavenger receptor cysteine rich domain containing (5 domains)	2.02E-03	2.47	6.75E-05	1.45	4.23E-02	-1.71	4.60E-03
A_64_P050660	Tnfaip8l2	tumor necrosis factor, alpha-induced protein 8-like 2	2.58E-03	2.46	9.64E-05	1.53	2.39E-02	-1.61	1.27E-02
A_43_P15904	Fcgr1a	Fc fragment of IgG, high affinity Ia, receptor (CD64)	4.94E-03	2.46	3.02E-04	1.57	3.25E-02	-1.56	3.60E-02
A_64_P049977	Gfap	glial fibrillary acidic protein	2.18E-02	2.45	3.24E-03	1.68	6.38E-02	-1.45	2.10E-01
A_64_P066755	Fam105a	family with sequence similarity 105, member A	7.96E-03	2.45	6.51E-04	1.59	4.49E-02	-1.54	6.08E-02
A_43_P12403	Fgr	Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog	1.16E-02	2.44	1.18E-03	1.58	6.48E-02	-1.55	7.88E-02
A_44_P237153	Birc5	baculoviral IAP repeat-containing 5	1.60E-03	2.43	4.49E-05	1.43	3.86E-02	-1.70	3.04E-03



A_64_P126851	LOC498276	Fc gamma receptor II beta	3.15E-03	2.43	1.38E-04	1.56	2.09E-02	-1.55	2.25E-02
A_42_P619114	Dnajc22	DnaJ (Hsp40) homolog, subfamily C, member 22	6.39E-03	2.42	4.68E-04	1.65	2.30E-02	-1.47	8.13E-02
A_64_P038872	A2m	alpha-2-macroglobulin	1.20E-03	2.41	2.47E-05	1.45	2.10E-02	-1.66	2.61E-03
A_42_P567268	Mt2A	metallothionein 2A	4.63E-03	2.40	2.87E-04	1.43	8.58E-02	-1.68	1.24E-02
A_42_P460351	Hlx	H2.0-like homeobox	2.08E-02	2.40	3.11E-03	1.70	5.03E-02	-1.41	2.48E-01
A_64_P158939	Mt2A	metallothionein 2A	4.74E-03	2.39	3.05E-04	1.41	1.01E-01	-1.70	1.12E-02
A_64_P038873	A2m	alpha-2-macroglobulin	1.30E-03	2.38	2.97E-05	1.43	2.80E-02	-1.67	2.48E-03
A_64_P032928	Lcp1	lymphocyte cytosolic protein 1	8.18E-03	2.36	6.84E-04	1.55	4.94E-02	-1.53	5.83E-02
A_64_P153759			1.40E-02	2.35	1.58E-03	1.58	6.11E-02	-1.49	1.12E-01
A_43_P13117	Lcp2	lymphocyte cytosolic protein 2	5.46E-03	2.35	3.55E-04	1.51	4.54E-02	-1.56	3.07E-02
A_43_P12626	Msln	mesothelin	2.60E-03	2.35	2.31E-04	1.12	7.07E-01	-2.09	5.95E-04
A_64_P028205	Lrg1	leucine-rich alpha-2-glycoprotein 1	1.13E-03	2.35	2.81E-05	1.30	1.08E-01	-1.81	6.01E-04
A_64_P024297	Gmfg	glia maturation factor, gamma	3.44E-03	2.34	1.64E-04	1.49	3.49E-02	-1.57	1.64E-02
A_42_P771570	Cd33	CD33 molecule	5.08E-03	2.34	3.18E-04	1.52	3.90E-02	-1.54	3.17E-02
A_43_P11537	Rbp1	retinol binding protein 1, cellular	4.26E-04	2.34	3.05E-06	1.32	3.09E-02	-1.77	1.20E-04
A_64_P120941	Cd53	Cd53 molecule	2.13E-02	2.33	3.42E-03	1.73	4.02E-02	-1.35	3.19E-01
A_64_P059011	Cyba	cytochrome b-245, alpha polypeptide	7.24E-03	2.33	5.78E-04	1.62	2.49E-02	-1.44	9.44E-02
A_44_P104131 2	Fes	feline sarcoma oncogene	5.23E-03	2.33	3.32E-04	1.50	4.48E-02	-1.55	2.89E-02
A_64_P045476	C1qb	complement component 1, q subcomponent, B chain	1.08E-03	2.32	1.90E-05	1.46	1.33E-02	-1.60	2.89E-03

A_64_P084995	Tnfrsf26	tumor necrosis factor receptor superfamily, member 26	1.78E-03	2.32	5.04E-05	1.49	1.61E-02	-1.56	8.42E-03
A_64_P126623			3.16E-03	2.31	1.39E-04	1.54	1.79E-02	-1.50	2.65E-02
A_42_P512838	Trem2	triggering receptor expressed on myeloid cells 2	1.28E-02	2.31	1.46E-03	1.65	3.47E-02	-1.40	1.74E-01
A_64_P268234	Spc24-ps1	SPC24, NDC80 kinetochore complex component, homolog ( <i>S. cerevisiae</i> ), pseudogene 1	1.92E-04	2.29	4.53E-07	1.29	1.69E-02	-1.78	1.64E-05
A_44_P588315	Lyve1	lymphatic vessel endothelial hyaluronan receptor 1	9.60E-03	2.29	1.41E-03	1.20	5.67E-01	-1.91	6.53E-03
A_44_P130898	Ly86	lymphocyte antigen 86	1.05E-02	2.28	1.05E-03	1.61	3.36E-02	-1.42	1.31E-01
A_64_P025286	Lyz2	lysozyme 2	1.33E-02	2.28	1.55E-03	1.64	3.45E-02	-1.39	1.85E-01
A_64_P125973	Tnfrsf1b	tumor necrosis factor receptor superfamily, member 1b	7.20E-03	2.28	5.66E-04	1.58	2.75E-02	-1.44	8.40E-02
A_44_P500013	Anpep	alanyl (membrane) aminopeptidase	4.76E-02	2.27	1.28E-02	1.81	5.82E-02	-1.25	6.06E-01
A_44_P874677	Tmem252	transmembrane protein 252	4.17E-03	2.27	3.25E-04	1.24	3.23E-01	-1.82	3.03E-03
A_44_P366723	Igf1	insulin-like growth factor 1	1.74E-02	2.26	2.34E-03	1.63	4.67E-02	-1.39	2.06E-01
A_44_P1053404	Fcgr1g	Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide	6.40E-03	2.26	4.65E-04	1.57	2.59E-02	-1.44	7.22E-02
A_42_P794130	Cdc20	cell division cycle 20 homolog ( <i>S. cerevisiae</i> )	7.98E-04	2.25	9.26E-06	1.45	7.33E-03	-1.55	1.98E-03
A_44_P323106	Abca1	ATP-binding cassette, subfamily A (ABC1), member 1	3.31E-02	2.24	6.74E-03	1.71	5.68E-02	-1.31	4.11E-01
A_64_P129279	Fcgr1a	Fc fragment of IgG, high affinity Ia, receptor (CD64)	5.05E-03	2.24	3.14E-04	1.50	3.45E-02	-1.50	3.53E-02
A_44_P426107	Akr1b8	aldo-keto reductase family 1, member B8	1.89E-03	2.24	9.10E-05	1.21	3.05E-01	-1.85	7.61E-04
A_64_P093184	Col15a1	collagen, type XV, alpha 1	5.61E-03	2.24	3.69E-04	1.50	3.61E-02	-1.49	4.04E-02
A_64_P087801	St14	suppression of tumorigenicity 14 (colon carcinoma)	6.25E-03	2.23	4.40E-04	1.53	3.16E-02	-1.46	5.61E-02
A_42_P576953	Pla1a	phospholipase A1 member A	2.62E-03	2.23	1.13E-04	1.34	8.97E-02	-1.66	3.92E-03

A_64_P031691	Actg2	actin, gamma 2, smooth muscle, enteric	5.28E-03	2.23	4.92E-04	1.23	3.73E-01	-1.81	3.96E-03
A_44_P464502	Gfap	glial fibrillary acidic protein	1.14E-02	2.22	1.24E-03	1.63	2.77E-02	-1.37	1.81E-01
A_64_P016357	Fcer1g	Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide	7.96E-03	2.22	6.69E-04	1.57	2.90E-02	-1.42	9.50E-02
A_44_P212964	Plac8	placenta-specific 8	3.28E-02	2.22	5.96E-03	1.57	1.01E-01	-1.41	2.38E-01
A_64_P107106	Hmgb2	high mobility group box 2	4.35E-04	2.22	3.37E-06	1.29	3.32E-02	-1.71	1.28E-04
A_64_P098454	Fermt3	fermitin family member 3	2.03E-03	2.21	6.47E-05	1.44	2.21E-02	-1.53	8.42E-03
A_64_P123622	Ly86	lymphocyte antigen 86	1.20E-02	2.21	1.28E-03	1.58	3.91E-02	-1.40	1.38E-01
A_64_P052740	Igf1	insulin-like growth factor 1	2.18E-02	2.21	3.24E-03	1.58	6.53E-02	-1.40	2.05E-01
A_44_P681660	Fn1	fibronectin 1	1.30E-03	2.21	2.77E-05	1.44	1.42E-02	-1.54	4.45E-03
A_44_P105225	Loxl2	lysyl oxidase-like 2	3.73E-03	2.20	1.94E-04	1.42	5.13E-02	-1.56	1.35E-02
A_64_P124249	LOC690976	similar to Calponin-2 (Calponin H2, smooth muscle) (Neutral calponin)	1.86E-03	2.20	5.58E-05	1.42	2.64E-02	-1.56	5.85E-03
A_64_P052626	Msn	moesin	8.75E-03	2.20	7.68E-04	1.44	7.97E-02	-1.53	4.07E-02
A_42_P824217	Dapp1	dual adaptor of phosphotyrosine and 3-phosphoinositides	9.21E-03	2.20	8.32E-04	1.54	3.83E-02	-1.43	9.15E-02
A_44_P1042876	Hspa1b	heat shock 70kD protein 1B (mapped)	4.66E-03	2.19	2.75E-04	1.46	3.83E-02	-1.50	2.73E-02
A_64_P110690	Unc93b1	unc-93 homolog B1 (C. elegans)	1.86E-02	2.18	2.82E-03	1.67	3.17E-02	-1.30	3.29E-01
A_44_P879764	B4galt1	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 1	3.53E-03	2.18	1.76E-04	1.41	4.90E-02	-1.55	1.26E-02
A_64_P241649	Cd300a	Cd300a molecule	5.38E-03	2.18	3.52E-04	1.55	1.99E-02	-1.41	6.86E-02
A_64_P157371	Pdpn	podoplanin	1.78E-02	2.17	2.39E-03	1.38	1.88E-01	-1.57	5.31E-02
A_44_P1039249	Dok3	docking protein 3	4.76E-03	2.17	2.88E-04	1.42	5.34E-02	-1.53	2.06E-02

A_64_P083600	Fxyd5	FXYP domain-containing ion transport regulator 5	2.47E-03	2.16	9.42E-05	1.38	4.53E-02	-1.56	6.45E-03
A_64_P141420	Serpinb1a	serine (or cysteine) proteinase inhibitor, clade B, member 1a	5.97E-03	2.16	4.08E-04	1.47	4.17E-02	-1.47	3.93E-02
A_64_P107105			4.09E-04	2.15	2.94E-06	1.27	3.56E-02	-1.69	1.01E-04
A_64_P048720	Dnase2	deoxyribonuclease II, lysosomal	6.18E-03	2.15	4.37E-04	1.52	2.67E-02	-1.42	6.56E-02
A_64_P123346	Xdh	xanthine dehydrogenase	4.84E-03	2.15	3.57E-04	1.28	1.97E-01	-1.67	6.24E-03
A_64_P100963	Ncaph	non-SMC condensin I complex, subunit H	4.74E-03	2.15	3.00E-04	1.36	8.81E-02	-1.57	1.27E-02
A_64_P008091	Slc15a3	solute carrier family 15, member 3	3.37E-02	2.15	6.27E-03	1.56	9.15E-02	-1.37	2.70E-01
A_64_P013226	Lsp1	lymphocyte-specific protein 1	2.00E-02	2.14	2.85E-03	1.56	5.81E-02	-1.37	2.03E-01
A_44_P515852	Tpx2	TPX2, microtubule-associated, homolog ( <i>Xenopus laevis</i> )	2.66E-03	2.14	1.25E-04	1.29	1.32E-01	-1.66	2.93E-03
A_64_P041526	Hmgb2	high mobility group box 2	6.71E-04	2.14	7.53E-06	1.32	2.61E-02	-1.62	4.52E-04
A_44_P248133	Tagln2	transgelin 2	1.10E-02	2.14	1.10E-03	1.41	1.00E-01	-1.51	4.67E-02
A_42_P508984	Pf4	platelet factor 4	3.97E-02	2.14	8.03E-03	1.56	1.05E-01	-1.37	2.94E-01
A_42_P814235	P2ry6	pyrimidineric receptor P2Y, G-protein coupled, 6	1.78E-02	2.14	2.43E-03	1.58	4.63E-02	-1.35	2.14E-01
A_44_P1053321	Gbp2	guanylate binding protein 2, interferon-inducible	2.00E-03	2.13	6.22E-05	1.48	1.10E-02	-1.44	1.62E-02
A_44_P1030098	Cdc45	cell division cycle 45 homolog ( <i>S. cerevisiae</i> )	5.83E-04	2.13	5.51E-06	1.33	1.95E-02	-1.61	3.92E-04
A_44_P144741	Blnk	B-cell linker	2.67E-03	2.13	1.04E-04	1.42	2.96E-02	-1.51	1.13E-02
A_44_P486312	Fmo2	flavin containing monooxygenase 2	1.92E-02	2.13	4.15E-03	1.16	6.92E-01	-1.83	1.40E-02
A_42_P591344	Itgb2	integrin, beta 2	3.74E-02	2.13	8.86E-03	1.72	4.76E-02	-1.24	5.51E-01
A_64_P110941	Cndp1	carnosine dipeptidase 1 (metallopeptidase M20 family)	2.64E-03	2.12	1.01E-04	1.46	1.79E-02	-1.46	1.79E-02

A_64_P019719	Srpx2	sushi-repeat-containing protein, X-linked 2	1.84E-03	2.12	5.81E-05	1.35	4.72E-02	-1.57	3.42E-03
A_64_P015549	Lyl1	lymphoblastic leukemia derived sequence 1	9.05E-04	2.11	1.23E-05	1.39	1.12E-02	-1.52	1.93E-03
A_43_P10641	Mgst2	microsomal glutathione S-transferase 2	7.27E-03	2.11	5.65E-04	1.43	5.83E-02	-1.47	4.01E-02
A_42_P759993	Mefv	Mediterranean fever	2.72E-02	2.11	4.48E-03	1.54	7.93E-02	-1.37	2.30E-01
A_64_P136909	Cxcl16	chemokine (C-X-C motif) ligand 16	6.82E-03	2.11	5.08E-04	1.45	4.57E-02	-1.45	4.56E-02
A_44_P182020	Psmb8	proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)	1.09E-02	2.10	1.09E-03	1.50	4.36E-02	-1.39	1.06E-01
A_64_P047527	Grn	granulin	6.17E-03	2.10	4.36E-04	1.50	2.51E-02	-1.39	6.93E-02
A_64_P068473			5.14E-03	2.10	3.64E-04	1.31	1.38E-01	-1.60	9.67E-03
A_44_P1028858	Grn	granulin	4.09E-03	2.10	2.18E-04	1.49	1.92E-02	-1.41	4.18E-02
A_64_P055994	Tacc3	transforming, acidic coiled-coil containing protein 3	2.66E-03	2.09	1.03E-04	1.48	1.31E-02	-1.42	2.52E-02
A_64_P080025	Serping1	serpin peptidase inhibitor, clade G (C1 inhibitor), member 1	3.45E-03	2.09	1.70E-04	1.37	5.42E-02	-1.52	1.09E-02
A_64_P019790	Cyp2d1	cytochrome P450, family 2, subfamily d, polypeptide 1	4.59E-02	2.08	9.68E-03	1.40	2.40E-01	-1.48	1.57E-01
A_64_P023472	Serpinb1a	serine (or cysteine) proteinase inhibitor, clade B, member 1a	8.65E-03	2.08	7.52E-04	1.47	4.46E-02	-1.42	7.12E-02
A_64_P051121	Pdpn	podoplanin	1.91E-02	2.08	2.55E-03	1.46	9.50E-02	-1.43	1.16E-01
A_64_P162760	LOC100362769	hypothetical protein LOC100362769	4.27E-03	2.07	2.50E-04	1.35	7.93E-02	-1.54	1.15E-02
A_44_P161233	Il18	interleukin 18	6.42E-03	2.07	4.75E-04	1.37	8.68E-02	-1.51	2.18E-02
A_44_P520859	Pkmyt1	protein kinase, membrane associated tyrosine/threonine 1	8.36E-04	2.06	1.13E-05	1.35	1.59E-02	-1.53	1.23E-03
A_44_P653701	Mybl2	myeloblastosis oncogene-like 2	2.61E-03	2.06	9.81E-05	1.42	2.10E-02	-1.45	1.48E-02
A_43_P11448	Cp	ceruloplasmin (ferroxidase)	2.61E-03	2.06	1.08E-04	1.32	7.36E-02	-1.56	4.62E-03

A_42_P506685	Fxyd2	FXYD domain-containing ion transport regulator 2	4.31E-03	2.06	2.40E-04	1.42	3.52E-02	-1.45	2.55E-02
A_44_P236761	Rasal3	RAS protein activator like 3	1.99E-02	2.06	2.93E-03	1.56	4.65E-02	-1.32	2.51E-01
A_64_P144944	Dab2	disabled 2, mitogen-responsive phosphoprotein	2.77E-04	2.05	1.12E-06	1.21	5.02E-02	-1.69	2.21E-05
A_64_P156947	Mms22l	MMS22-like, DNA repair protein	4.41E-03	2.04	2.52E-04	1.38	5.40E-02	-1.48	1.74E-02
A_64_P155950			9.30E-04	2.04	1.50E-05	1.30	3.47E-02	-1.57	8.37E-04
A_44_P378799	Igfbp6	insulin-like growth factor binding protein 6	8.35E-04	2.03	2.76E-05	1.10	6.17E-01	-1.85	7.43E-05
A_64_P048049	Pdlim7	PDZ and LIM domain 7	1.47E-03	2.03	3.69E-05	1.36	2.13E-02	-1.49	4.29E-03
A_44_P276338	Mcm6	minichromosome maintenance complex component 6	4.86E-03	2.03	3.23E-04	1.31	1.14E-01	-1.55	1.05E-02
A_64_P038887	Cdca7l	cell division cycle associated 7 like	5.63E-03	2.03	3.85E-04	1.35	7.85E-02	-1.50	1.91E-02
A_42_P598934	Lrrfip1	leucine rich repeat (in FLII) interacting protein 1	8.65E-03	2.02	7.56E-04	1.46	3.98E-02	-1.38	7.99E-02
A_44_P149476	Lrch4	leucine-rich repeats and calponin homology (CH) domain containing 4	4.54E-03	2.02	2.62E-04	1.42	3.18E-02	-1.42	3.13E-02
A_44_P293904	Syk	spleen tyrosine kinase	2.17E-02	2.02	3.29E-03	1.53	5.40E-02	-1.32	2.45E-01
A_44_P297777	Flna	filamin A, alpha	1.01E-03	2.02	1.71E-05	1.32	2.62E-02	-1.53	1.30E-03
A_64_P022155	Slc2a5	solute carrier family 2 (facilitated glucose/fructose transporter), member 5	6.33E-03	2.01	4.46E-04	1.42	4.39E-02	-1.42	4.11E-02
A_43_P19763	Tlr2	toll-like receptor 2	2.70E-02	2.01	4.73E-03	1.56	5.39E-02	-1.29	3.29E-01
A_44_P301608	Ucp2	uncoupling protein 2 (mitochondrial, proton carrier)	2.17E-03	2.01	7.77E-05	1.33	4.72E-02	-1.51	4.88E-03
A_44_P513385	Dab2	disabled 2, mitogen-responsive phosphoprotein	2.98E-04	2.01	1.37E-06	1.21	5.03E-02	-1.66	2.84E-05
A_43_P15259	Tnfrsf1a	tumor necrosis factor receptor superfamily, member 1a	5.14E-03	2.01	3.24E-04	1.42	3.53E-02	-1.42	3.58E-02
A_43_P13102	Ada	adenosine deaminase	6.89E-04	2.00	1.22E-05	1.17	2.02E-01	-1.71	1.16E-04

A_64_P155186	Aurka	aurora kinase A	1.78E-03	2.00	5.34E-05	1.33	3.82E-02	-1.51	3.81E-03
A_43_P19799	RGD156322 2	similar to RIKEN cDNA A930018P22	3.64E-03	2.00	1.84E-04	1.37	4.49E-02	-1.47	1.46E-02
A_42_P762829	Cebpd	CCAAT/enhancer binding protein (C/EBP), delta	1.74E-02	2.00	2.29E-03	1.49	5.53E-02	-1.34	1.74E-01
A_42_P522899	Tgfb1	transforming growth factor, beta 1	1.48E-02	2.00	1.72E-03	1.42	8.10E-02	-1.41	9.27E-02
A_64_P048887	Slfn2	schlafen 2	5.08E-03	2.00	3.21E-04	1.45	2.45E-02	-1.38	5.08E-02
A_43_P14915	C6	complement component 6	2.06E-02	1.99	3.01E-03	1.51	5.63E-02	-1.32	2.19E-01
A_64_P139173	Cd40	CD40 molecule, TNF receptor superfamily member 5	9.16E-03	1.99	8.19E-04	1.44	4.43E-02	-1.38	7.84E-02
A_42_P601014	Cmtm7	CKLF-like MARVEL transmembrane domain containing 7	1.28E-02	1.99	1.41E-03	1.48	4.44E-02	-1.35	1.34E-01
A_64_P032574	Hk2	hexokinase 2	5.38E-03	1.99	3.48E-04	1.37	5.57E-02	-1.45	2.44E-02
A_64_P038414	Lox	lysyl oxidase	2.84E-03	1.99	1.75E-04	1.19	3.11E-01	-1.67	1.57E-03
A_64_P062110	RT1-DMb	RT1 class II, locus DMb	2.30E-02	1.99	3.53E-03	1.50	6.47E-02	-1.33	2.23E-01
A_64_P062742			2.03E-02	1.98	3.17E-03	1.56	3.77E-02	-1.27	3.15E-01
A_42_P527141	Foxm1	forkhead box M1	1.72E-03	1.98	5.11E-05	1.31	4.30E-02	-1.51	3.20E-03
A_64_P121936	Clec4a1	C-type lectin domain family 4, member A1	2.66E-02	1.98	4.67E-03	1.55	5.09E-02	-1.28	3.40E-01
A_42_P588944	Mgp	matrix Gla protein	6.89E-04	1.98	1.05E-05	1.20	1.16E-01	-1.64	1.69E-04
A_44_P258008	Fgd2	FYVE, RhoGEF and PH domain containing 2	2.20E-02	1.98	3.33E-03	1.50	5.83E-02	-1.32	2.32E-01
A_64_P120432	Hmha1	histocompatibility (minor) HA-1	5.31E-03	1.98	3.39E-04	1.42	3.27E-02	-1.40	4.06E-02
A_64_P130983	Aif1	allograft inflammatory factor 1	5.45E-03	1.98	3.53E-04	1.39	4.57E-02	-1.43	3.05E-02
A_44_P113933	Tyms	thymidylate synthetase	1.26E-03	1.98	3.16E-05	1.26	7.40E-02	-1.57	1.02E-03

A_42_P666951	Cd40	CD40 molecule, TNF receptor superfamily member 5	5.63E-03	1.97	3.71E-04	1.41	3.80E-02	-1.40	3.87E-02
A_44_P1050480	Ecm1	extracellular matrix protein 1	1.45E-03	1.97	4.33E-05	1.24	1.03E-01	-1.59	1.07E-03
A_44_P487761	C1qa	complement component 1, q subcomponent, A chain	4.65E-03	1.97	2.75E-04	1.44	2.07E-02	-1.36	5.04E-02
A_44_P856007	Iqgap1	IQ motif containing GTPase activating protein 1	4.11E-03	1.97	2.20E-04	1.37	4.07E-02	-1.44	1.98E-02
A_44_P178519	Adamts7	ADAM metallopeptidase with thrombospondin type 1 motif, 7	3.05E-04	1.97	1.21E-06	1.30	6.36E-03	-1.51	1.37E-04
A_43_P12172	Lgmn	legumain	1.13E-02	1.97	1.13E-03	1.38	8.69E-02	-1.43	5.61E-02
A_64_P137386	Tlr13	toll-like receptor 13	1.50E-02	1.97	1.87E-03	1.50	3.91E-02	-1.31	1.96E-01
A_64_P086148	Jak3	Janus kinase 3	3.86E-03	1.96	2.02E-04	1.36	4.21E-02	-1.44	1.73E-02
A_44_P458878	Tcf19	transcription factor 19	2.81E-03	1.96	1.23E-04	1.30	6.87E-02	-1.50	5.77E-03
A_44_P592221	Sox7	SRY (sex determining region Y)-box 7	1.58E-02	1.96	1.93E-03	1.35	1.33E-01	-1.44	6.25E-02
A_44_P920712	Dock8	dedicator of cytokinesis 8	1.95E-02	1.96	2.75E-03	1.48	5.49E-02	-1.32	2.07E-01
A_42_P826115	Sapcd2	suppressor APC domain containing 2	8.36E-04	1.96	1.15E-05	1.31	1.90E-02	-1.49	1.06E-03
A_44_P1023801	Kif23	kinesin family member 23	1.73E-03	1.95	5.34E-05	1.29	5.19E-02	-1.51	2.80E-03
A_44_P354078	Hist1h1a	histone cluster 1, H1a	1.62E-03	1.93	5.53E-05	1.23	1.18E-01	-1.57	1.24E-03
A_64_P012061	Bmp7	bone morphogenetic protein 7	2.77E-04	1.93	9.35E-07	1.26	1.14E-02	-1.54	5.86E-05
A_64_P023587	Ly96	lymphocyte antigen 96	1.30E-03	1.93	2.81E-05	1.36	1.28E-02	-1.42	5.04E-03
A_64_P030689	Cd8b	CD8b molecule	1.27E-02	1.93	1.59E-03	1.54	2.13E-02	-1.25	2.80E-01
A_64_P125883	Socs3	suppressor of cytokine signaling 3	7.76E-04	1.93	9.10E-06	1.32	1.17E-02	-1.46	1.23E-03
A_44_P1039128	Cxcl10	chemokine (C-X-C motif) ligand 10	2.36E-02	1.92	3.52E-03	1.37	1.44E-01	-1.41	1.05E-01



A_44_P175364	Mafb	v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian)	1.17E-02	1.92	1.21E-03	1.41	5.58E-02	-1.36	9.34E-02
A_64_P132576	Ccl9	chemokine (C-C motif) ligand 9	5.26E-03	1.91	3.34E-04	1.39	3.20E-02	-1.37	4.08E-02
A_64_P047714	Aif1	allograft inflammatory factor 1	1.00E-02	1.91	9.43E-04	1.42	4.54E-02	-1.35	8.85E-02
A_44_P499309	Piezo1	piezo-type mechanosensitive ion channel component 1	2.53E-02	1.91	4.05E-03	1.46	7.41E-02	-1.31	2.24E-01
A_44_P466118	Slc11a1	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1	1.61E-02	1.90	1.97E-03	1.35	1.18E-01	-1.41	7.26E-02
A_44_P175530	Plek	pleckstrin	1.14E-02	1.90	1.15E-03	1.37	7.73E-02	-1.39	6.41E-02
A_64_P067884	Trim47	tripartite motif-containing 47	4.57E-02	1.90	9.61E-03	1.35	2.36E-01	-1.41	1.59E-01
A_64_P041797	Hspb9	heat shock protein, alpha-crystallin-related, B9	9.82E-03	1.90	1.37E-03	1.16	5.11E-01	-1.63	7.57E-03
A_42_P457783	Tifab	TRAF-interacting protein with forkhead-associated domain, family member B	7.52E-03	1.90	5.95E-04	1.39	4.12E-02	-1.36	6.00E-02
A_43_P13111	Skap2	src kinase associated phosphoprotein 2	6.82E-03	1.90	5.11E-04	1.40	3.52E-02	-1.35	5.95E-02
A_64_P027048	Mcm2	minichromosome maintenance complex component 2	1.01E-03	1.89	1.91E-05	1.24	5.65E-02	-1.52	7.11E-04
A_42_P809575	Klhl30	kelch-like 30 (Drosophila)	9.88E-04	1.89	1.50E-05	1.34	9.73E-03	-1.41	2.87E-03
A_64_P009265	Ugt1a6	UDP glucuronosyltransferase 1 family, polypeptide A6	2.12E-02	1.89	3.30E-03	1.49	4.41E-02	-1.26	2.89E-01
A_64_P137075	Col7a1	collagen, type VII, alpha 1	4.84E-03	1.89	3.73E-04	1.22	2.35E-01	-1.55	5.31E-03
A_64_P001401	Tinagl1	tubulointerstitial nephritis antigen-like 1	8.75E-03	1.89	1.39E-03	1.12	6.70E-01	-1.68	4.65E-03
A_64_P056537	Dscc1	defective in sister chromatid cohesion 1 homolog (S. cerevisiae)	7.15E-03	1.88	5.52E-04	1.40	3.34E-02	-1.34	6.79E-02
A_42_P520349	Clec10a	C-type lectin domain family 10, member A	2.47E-02	1.88	3.95E-03	1.29	2.50E-01	-1.46	6.34E-02
A_64_P144492	Mall	mal, T-cell differentiation protein-like	4.66E-03	1.88	4.25E-04	1.17	4.05E-01	-1.61	2.98E-03
A_44_P193945	Bst1	bone marrow stromal cell antigen 1	3.53E-02	1.88	6.81E-03	1.46	8.95E-02	-1.29	2.93E-01

A_64_P310726	Ly96	lymphocyte antigen 96	7.96E-03	1.88	6.55E-04	1.40	3.90E-02	-1.34	7.02E-02
A_64_P034414	Tnf	tumor necrosis factor	1.20E-03	1.88	4.41E-05	1.14	3.44E-01	-1.65	2.84E-04
A_64_P114913	Vwf	von Willebrand factor	6.60E-03	1.88	6.72E-04	1.19	3.61E-01	-1.58	5.87E-03
A_44_P518127	Wwtr1	WW domain containing transcription regulator 1	1.26E-02	1.88	1.44E-03	1.28	1.82E-01	-1.46	3.23E-02
A_44_P283941	Arhgdib	Rho, GDP dissociation inhibitor (GDI) beta	7.20E-03	1.88	5.58E-04	1.40	3.38E-02	-1.34	6.79E-02
A_64_P082758	Abi3	ABI family, member 3	3.56E-03	1.87	1.74E-04	1.39	1.87E-02	-1.35	3.29E-02
A_44_P301963	Psmb9	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)	4.66E-03	1.87	2.76E-04	1.34	4.61E-02	-1.40	2.28E-02
A_43_P12384	Birc3	baculoviral IAP repeat-containing 3	3.75E-02	1.87	8.04E-03	1.51	6.59E-02	-1.24	4.19E-01
A_64_P033380	Tcirg1	T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 subunit A3	4.55E-03	1.86	2.65E-04	1.39	2.25E-02	-1.34	4.46E-02
A_64_P068622	Hist1h2ail	histone cluster 1, H2ai-like	1.86E-03	1.86	6.71E-05	1.23	1.07E-01	-1.51	1.75E-03
A_64_P222609	C2	complement component 2	1.42E-02	1.86	1.61E-03	1.39	6.77E-02	-1.34	1.03E-01
A_64_P115772			6.07E-03	1.86	4.17E-04	1.36	4.49E-02	-1.37	3.73E-02
A_64_P012626			1.29E-02	1.86	1.43E-03	1.41	4.83E-02	-1.32	1.27E-01
A_64_P015462	Sp140	SP140 nuclear body protein	4.19E-03	1.86	2.28E-04	1.35	3.64E-02	-1.38	2.32E-02
A_44_P468258	Casp1	caspase 1	5.75E-03	1.86	3.83E-04	1.36	4.11E-02	-1.37	3.71E-02
A_64_P099923	Dap	death-associated protein	4.99E-03	1.85	3.14E-04	1.31	6.41E-02	-1.41	1.88E-02
A_42_P818546	Fhod1	formin homology 2 domain containing 1	1.24E-03	1.85	2.59E-05	1.32	1.53E-02	-1.41	3.77E-03
A_64_P031745	Ptpn18	protein tyrosine phosphatase, non-receptor type 18	3.46E-03	1.85	1.72E-04	1.30	5.55E-02	-1.42	1.08E-02
A_44_P180229	Rasa4	RAS p21 protein activator 4	4.36E-02	1.85	9.18E-03	1.43	1.15E-01	-1.29	3.01E-01

A_64_P105231	Myl12a	myosin, light chain 12A, regulatory, non-sarcomeric	3.05E-04	1.85	1.20E-06	1.25	1.10E-02	-1.48	8.42E-05
A_64_P025630	Ugt1a6	UDP glucuronosyltransferase 1 family, polypeptide A6	1.41E-02	1.85	1.65E-03	1.43	4.31E-02	-1.29	1.61E-01
A_42_P480224	Gpd1	glycerol-3-phosphate dehydrogenase 1 (soluble)	1.21E-02	1.84	1.97E-03	1.15	5.75E-01	-1.61	9.10E-03
A_64_P022615	Vamp5	vesicle-associated membrane protein 5	1.65E-03	1.84	5.61E-05	1.22	1.10E-01	-1.51	1.36E-03
A_44_P1037041	Map3k6	mitogen-activated protein kinase kinase kinase 6	4.98E-03	1.84	4.63E-04	1.16	3.95E-01	-1.58	3.41E-03
A_64_P113443	Cdk6	cyclin-dependent kinase 6	2.43E-03	1.84	9.78E-05	1.26	7.38E-02	-1.46	4.07E-03
A_42_P501679			1.18E-03	1.84	2.45E-05	1.28	2.59E-02	-1.44	2.09E-03
A_44_P463980			3.07E-03	1.84	1.37E-04	1.31	4.15E-02	-1.40	1.11E-02
A_42_P614692	Oplah	5-oxoprolinase (ATP-hydrolysing)	1.01E-03	1.84	1.73E-05	1.26	3.03E-02	-1.46	1.15E-03
A_42_P653257	Ptpn7	protein tyrosine phosphatase, non-receptor type 7	2.26E-02	1.84	3.30E-03	1.36	1.18E-01	-1.35	1.21E-01
A_64_P034064	Mrgprx3	MAS-related GPR, member X3	2.13E-02	1.84	3.41E-03	1.48	4.02E-02	-1.24	3.18E-01
A_64_P045506			1.20E-03	1.83	3.28E-05	1.20	1.26E-01	-1.53	6.18E-04
A_42_P808426	Ifitm2	interferon induced transmembrane protein 2	9.53E-03	1.83	8.76E-04	1.38	4.33E-02	-1.32	8.59E-02
A_44_P354573	Tax1bp3	Tax1 (human T-cell leukemia virus type I) binding protein 3	1.96E-03	1.83	7.10E-05	1.23	9.70E-02	-1.49	2.07E-03
A_42_P810736	Timeless	timeless circadian clock	3.34E-03	1.83	1.69E-04	1.27	8.24E-02	-1.45	6.98E-03
A_43_P14036	Ifi2712b	interferon, alpha-inducible protein 27 like 2B	1.85E-02	1.83	2.44E-03	1.32	1.35E-01	-1.38	7.83E-02
A_44_P1038028	Tnfrsf12a	tumor necrosis factor receptor superfamily, member 12a	1.28E-02	1.82	1.47E-03	1.27	1.78E-01	-1.43	3.40E-02
A_44_P424087	Iqgap1	IQ motif containing GTPase activating protein 1	1.07E-03	1.82	2.07E-05	1.25	4.11E-02	-1.46	1.08E-03
A_64_P077406	Rnaset2	ribonuclease T2	2.39E-02	1.82	4.48E-03	1.52	3.12E-02	-1.19	4.65E-01

A_64_P034344	Cfh	complement factor H	1.09E-02	1.82	1.09E-03	1.40	3.83E-02	-1.30	1.21E-01
A_44_P363647	Ezh2	enhancer of zeste homolog 2 (Drosophila)	2.44E-03	1.82	9.45E-05	1.27	5.49E-02	-1.43	5.32E-03
A_42_P493824	Dok1	docking protein 1	6.17E-03	1.82	4.28E-04	1.35	3.91E-02	-1.34	4.42E-02
A_64_P148520	Plk4	polo-like kinase 4	8.32E-03	1.82	8.33E-04	1.22	2.41E-01	-1.49	1.27E-02
A_64_P013942	Ifi2712b	interferon, alpha-inducible protein 27 like 2B	2.87E-02	1.82	4.73E-03	1.32	1.72E-01	-1.37	1.15E-01
A_64_P155629	Csf2ra	granulocyte-macrophage colony stimulating receptor alpha	4.52E-03	1.82	2.64E-04	1.39	1.77E-02	-1.30	5.59E-02
A_64_P144891			3.16E-03	1.81	1.39E-04	1.34	2.44E-02	-1.35	1.94E-02
A_43_P11812	Bgn	biglycan	9.51E-03	1.81	8.71E-04	1.31	8.82E-02	-1.38	4.19E-02
A_64_P093448			2.65E-02	1.81	4.17E-03	1.32	1.62E-01	-1.37	1.09E-01
A_43_P15253	Icam1	intercellular adhesion molecule 1	9.59E-03	1.81	9.18E-04	1.42	2.87E-02	-1.28	1.32E-01
A_44_P579385	Ahnak	AHNAK nucleoprotein	3.05E-04	1.81	1.81E-06	1.16	9.35E-02	-1.57	2.39E-05
A_44_P1003372	Smpdl3a	sphingomyelin phosphodiesterase, acid-like 3A	1.14E-02	1.81	1.18E-03	1.39	4.40E-02	-1.30	1.14E-01
A_42_P744495	Cd63	Cd63 molecule	1.08E-02	1.81	1.11E-03	1.41	3.34E-02	-1.28	1.38E-01
A_64_P024419	Parp14	poly (ADP-ribose) polymerase family, member 14	8.32E-04	1.81	1.07E-05	1.29	1.30E-02	-1.41	1.39E-03
A_64_P067883	Trim47	tripartite motif-containing 47	3.85E-02	1.81	7.38E-03	1.35	1.62E-01	-1.33	1.85E-01
A_43_P12437	Hhex	hematopoietically expressed homeobox	7.16E-03	1.80	5.51E-04	1.36	3.83E-02	-1.32	5.93E-02
A_44_P433259	Sipa1	signal-induced proliferation-associated 1	1.45E-03	1.80	3.91E-05	1.24	5.52E-02	-1.45	1.78E-03
A_64_P318045			8.24E-03	1.80	8.41E-04	1.21	2.63E-01	-1.49	1.15E-02
A_64_P026509	Parva	parvin, alpha	7.72E-04	1.80	1.10E-05	1.21	5.95E-02	-1.49	3.39E-04

A_44_P325508	Anxa3	annexin A3	7.52E-03	1.80	6.20E-04	1.40	2.38E-02	-1.28	1.06E-01
A_64_P019295	Shc1	SHC (Src homology 2 domain containing) transforming protein 1	4.10E-03	1.80	2.21E-04	1.30	4.81E-02	-1.38	1.68E-02
A_44_P123887	Smc4	structural maintenance of chromosomes 4	1.82E-03	1.80	6.56E-05	1.21	1.16E-01	-1.49	1.56E-03
A_43_P17424	Chaf1b	chromatin assembly factor 1, subunit B (p60)	1.04E-03	1.79	1.96E-05	1.23	4.60E-02	-1.46	8.97E-04
A_44_P137981			2.38E-02	1.79	3.73E-03	1.27	2.33E-01	-1.41	6.51E-02
A_44_P592381	Edem1	ER degradation enhancer, mannosidase alpha-like 1	1.12E-02	1.79	1.13E-03	1.38	4.31E-02	-1.30	1.12E-01
A_64_P026316	C4a	complement component 4A (Rodgers blood group)	1.62E-03	1.79	4.99E-05	1.23	6.75E-02	-1.45	1.96E-03
A_64_P057196	Cldn14	claudin 14	3.54E-02	1.79	6.58E-03	1.37	1.24E-01	-1.30	2.14E-01
A_64_P021840	Kpna2	karyopherin alpha 2	1.37E-02	1.79	1.55E-03	1.29	1.35E-01	-1.39	4.92E-02
A_44_P1004323	Col18a1	collagen, type XVIII, alpha 1	1.92E-02	1.79	2.65E-03	1.28	1.80E-01	-1.39	6.18E-02
A_64_P117180	Rnaset2	ribonuclease T2	2.73E-02	1.79	5.13E-03	1.48	4.31E-02	-1.21	4.11E-01
A_64_P139138			2.92E-03	1.78	1.23E-04	1.31	3.01E-02	-1.36	1.35E-02
A_44_P501898	Chtf18	CTF18, chromosome transmission fidelity factor 18 homolog (S. cerevisiae)	3.35E-04	1.78	2.40E-06	1.16	8.29E-02	-1.54	3.75E-05
A_64_P103823	Ppp1r18	protein phosphatase 1, regulatory subunit 18	8.64E-03	1.78	7.46E-04	1.33	6.23E-02	-1.34	5.07E-02
A_43_P11514	Tpm4	tropomyosin 4	4.74E-03	1.78	2.83E-04	1.32	4.00E-02	-1.35	2.71E-02
A_64_P092201	Cp	ceruloplasmin (ferroxidase)	2.69E-02	1.78	4.26E-03	1.35	1.22E-01	-1.32	1.48E-01
A_64_P155393	Ccnd1	cyclin D1	6.33E-03	1.78	4.49E-04	1.31	5.62E-02	-1.36	3.23E-02
A_44_P425580	Cxcr4	chemokine (C-X-C motif) receptor 4	2.96E-02	1.78	5.47E-03	1.44	5.90E-02	-1.23	3.43E-01
A_64_P056689			4.33E-04	1.78	3.75E-06	1.17	7.03E-02	-1.51	7.55E-05

A_64_P114768			2.16E-02	1.78	3.08E-03	1.33	1.15E-01	-1.33	1.16E-01
A_44_P363494	RGD1563847	similar to karyopherin (importin) alpha 2	2.91E-02	1.77	4.82E-03	1.32	1.65E-01	-1.35	1.23E-01
A_64_P367740			1.87E-02	1.77	2.56E-03	1.27	1.94E-01	-1.40	5.49E-02
A_44_P484889	Ifitm3	interferon induced transmembrane protein 3	6.03E-03	1.77	4.14E-04	1.33	3.89E-02	-1.33	4.27E-02
A_42_P698409	Enpp3	ectonucleotide pyrophosphatase/phosphodiesterase 3	3.70E-02	1.77	7.03E-03	1.36	1.27E-01	-1.30	2.22E-01
A_44_P111816	Adcy4	adenylate cyclase 4	1.46E-03	1.77	3.67E-05	1.27	2.57E-02	-1.39	3.54E-03
A_64_P144711			1.84E-03	1.77	6.26E-05	1.22	8.14E-02	-1.44	2.14E-03
A_64_P150321			1.22E-03	1.76	3.10E-05	1.20	9.12E-02	-1.47	8.07E-04
A_44_P139869	Tmem176b	transmembrane protein 176B	1.35E-02	1.76	1.57E-03	1.40	3.77E-02	-1.26	1.73E-01
A_44_P945669	Dsn1	DSN1, MIND kinetochore complex component, homolog (S. cerevisiae)	1.12E-03	1.76	2.13E-05	1.27	1.91E-02	-1.39	2.36E-03
A_44_P102197	Alox5ap	arachidonate 5-lipoxygenase activating protein	1.83E-03	1.76	5.79E-05	1.25	5.07E-02	-1.41	3.16E-03
A_64_P136501	Vwf	von Willebrand factor	4.77E-03	1.76	3.32E-04	1.22	1.58E-01	-1.44	7.49E-03
A_64_P163787	LOC687827	similar to Serine/threonine-protein kinase Haspin (Haploid germ cell-specific nuclear protein kinase) (Germ cell-specific gene 2 protein)	4.39E-03	1.76	2.45E-04	1.32	3.29E-02	-1.33	2.79E-02
A_64_P091851	LOC497848	hypothetical LOC497848	9.05E-04	1.76	1.38E-05	1.23	3.30E-02	-1.43	7.89E-04
A_64_P101346	Ppic	peptidylprolyl isomerase C	7.18E-04	1.76	8.19E-06	1.26	1.48E-02	-1.40	8.57E-04
A_42_P812008	Nupr1	nuclear protein, transcriptional regulator, 1	7.90E-03	1.76	8.78E-04	1.17	3.73E-01	-1.50	7.53E-03
A_64_P030257	Vrk2	vaccinia related kinase 2	8.43E-03	1.76	8.23E-04	1.22	2.11E-01	-1.44	1.47E-02
A_44_P974862	Pld4	phospholipase D family, member 4	4.76E-02	1.75	1.12E-02	1.43	8.87E-02	-1.22	4.27E-01

A_44_P475444	RGD1564614	similar to complement factor H-related protein	2.15E-03	1.75	7.19E-05	1.30	2.32E-02	-1.35	9.12E-03
A_44_P332606	C2	complement component 2	1.75E-02	1.75	2.27E-03	1.37	6.13E-02	-1.28	1.58E-01
A_44_P532237	Fanca	Fanconi anemia, complementation group A	4.79E-03	1.75	2.98E-04	1.27	7.46E-02	-1.38	1.51E-02
A_64_P151318	LOC313641	perlecan	4.35E-04	1.75	3.96E-06	1.17	7.82E-02	-1.50	7.34E-05
A_64_P105228	Myl12a	myosin, light chain 12A, regulatory, non-sarcomeric	6.63E-04	1.75	6.62E-06	1.27	9.04E-03	-1.38	1.03E-03
A_44_P1007215	Upp1	uridine phosphorylase 1	2.02E-02	1.75	3.01E-03	1.23	2.64E-01	-1.41	4.50E-02
A_42_P569708	Gpsm3	G-protein signaling modulator 3	8.43E-03	1.74	7.21E-04	1.29	7.73E-02	-1.35	3.92E-02
A_42_P744440	Parp3	poly (ADP-ribose) polymerase family, member 3	2.84E-03	1.74	1.35E-04	1.21	1.16E-01	-1.44	3.70E-03
A_44_P166581	Ifitm7	interferon induced transmembrane protein 7	9.52E-03	1.74	8.79E-04	1.36	3.74E-02	-1.28	9.90E-02
A_44_P1006058	Ctsk	cathepsin K	1.47E-02	1.74	1.80E-03	1.25	1.83E-01	-1.39	4.07E-02
A_64_P139873	Rhbdf2	rhomoid 5 homolog 2 (Drosophila)	3.77E-03	1.74	1.92E-04	1.31	3.06E-02	-1.33	2.26E-02
A_64_P091852	LOC497848	hypothetical LOC497848	6.54E-03	1.74	5.28E-04	1.23	1.52E-01	-1.41	1.32E-02
A_43_P22409	Mtbp	Mdm2, transformed 3T3 cell double minute 2, p53 binding protein (mouse) binding protein, 104kDa	4.96E-03	1.73	3.49E-04	1.22	1.49E-01	-1.42	8.46E-03
A_42_P755887	Mlxipl	MLX interacting protein-like	7.37E-04	1.73	9.20E-06	1.22	2.88E-02	-1.42	5.34E-04
A_44_P275029	Mvp	major vault protein	2.49E-02	1.73	3.88E-03	1.28	1.88E-01	-1.36	8.63E-02
A_44_P457548	Parp9	poly (ADP-ribose) polymerase family, member 9	2.57E-03	1.73	9.81E-05	1.27	3.72E-02	-1.36	8.29E-03
A_64_P079751	Bst1	bone marrow stromal cell antigen 1	1.25E-02	1.73	1.40E-03	1.38	3.52E-02	-1.25	1.65E-01
A_43_P11236	Laptm5	lysosomal protein transmembrane 5	1.14E-02	1.73	1.25E-03	1.40	2.73E-02	-1.24	1.85E-01
A_64_P182546	Iqgap3	IQ motif containing GTPase activating protein 3	8.54E-03	1.73	7.61E-04	1.37	2.67E-02	-1.26	1.17E-01

A_64_P055102	Eci3	enoyl-Coenzyme A delta isomerase 3	2.90E-03	1.72	1.87E-04	1.14	3.39E-01	-1.51	1.52E-03
A_64_P073004	Gusb	glucuronidase, beta	1.58E-02	1.72	2.00E-03	1.37	4.96E-02	-1.26	1.69E-01
A_44_P199469	Gsdmd	gasdermin D	3.48E-03	1.72	1.80E-04	1.24	7.63E-02	-1.39	8.15E-03
A_64_P046125	Tmem88	transmembrane protein 88	1.54E-03	1.72	4.91E-05	1.20	9.53E-02	-1.44	1.35E-03
A_64_P001066	RGD1561738	similar to interferon induced transmembrane protein 2 (1-8D)	1.74E-02	1.72	2.38E-03	1.40	4.10E-02	-1.23	2.33E-01
A_64_P126756	Fxyd2	FXYD domain-containing ion transport regulator 2	7.54E-03	1.72	6.01E-04	1.33	3.92E-02	-1.29	6.36E-02
A_42_P640700	Tmem176a	transmembrane protein 176A	3.14E-02	1.72	6.41E-03	1.44	4.88E-02	-1.19	4.41E-01
A_44_P283561	Mgst1	microsomal glutathione S-transferase 1	1.81E-02	1.71	2.37E-03	1.33	8.06E-02	-1.29	1.27E-01
A_64_P108804	Sbno2	strawberry notch homolog 2 (Drosophila)	1.37E-02	1.71	1.53E-03	1.33	6.41E-02	-1.29	1.04E-01
A_42_P493380	Myc	myelocytomatosis oncogene	1.92E-02	1.71	2.56E-03	1.32	9.03E-02	-1.29	1.23E-01
A_64_P088382	Angptl4	angiopoietin-like 4	1.38E-03	1.71	3.62E-05	1.21	6.44E-02	-1.42	1.39E-03
A_44_P1042473	Lgals3bp	lectin, galactoside-binding, soluble, 3 binding protein	2.39E-02	1.71	3.89E-03	1.40	5.22E-02	-1.22	2.89E-01
A_44_P337300	Il4ra	interleukin 4 receptor, alpha	1.16E-02	1.71	1.33E-03	1.22	2.22E-01	-1.40	2.35E-02
A_42_P639027	Mmp14	matrix metalloproteinase 14 (membrane-inserted)	4.71E-02	1.71	1.05E-02	1.38	1.06E-01	-1.23	3.58E-01
A_42_P802550	Pdlim1	PDZ and LIM domain 1	1.30E-03	1.70	3.34E-05	1.20	6.74E-02	-1.42	1.20E-03
A_42_P805300	Gpx1	glutathione peroxidase 1	6.39E-03	1.70	4.60E-04	1.28	6.43E-02	-1.33	2.89E-02
A_43_P12961	Eif4ebp1	eukaryotic translation initiation factor 4E binding protein 1	3.07E-03	1.70	1.47E-04	1.23	8.26E-02	-1.39	5.89E-03
A_42_P522638	Pqlc3	PQ loop repeat containing 3	5.69E-03	1.70	3.78E-04	1.32	3.02E-02	-1.29	4.97E-02
A_44_P527154	Hist1h2af	histone cluster 1, H2af	6.57E-04	1.70	9.16E-06	1.16	9.85E-02	-1.47	1.67E-04



A_44_P389072	Il13ra1	interleukin 13 receptor, alpha 1	4.53E-03	1.70	2.69E-04	1.26	6.46E-02	-1.35	1.56E-02
A_42_P817417	PVR	poliovirus receptor	8.03E-04	1.69	1.08E-05	1.22	2.85E-02	-1.39	6.61E-04
A_44_P777173	Npl	N-acetylneuraminase pyruvate lyase	3.50E-02	1.69	7.74E-03	1.44	4.95E-02	-1.17	4.95E-01
A_44_P532548	Fkbp10	FK506 binding protein 10	1.39E-02	1.69	1.62E-03	1.25	1.58E-01	-1.36	4.32E-02
A_64_P014183	Crip1	cysteine-rich protein 1 (intestinal)	1.36E-02	1.68	1.53E-03	1.27	1.21E-01	-1.33	5.42E-02
A_64_P022746	Srpx	sushi-repeat-containing protein, X-linked	3.90E-02	1.68	1.07E-02	1.13	6.95E-01	-1.50	3.72E-02
A_64_P093124	MGC108823	similar to interferon-inducible GTPase	2.38E-02	1.68	3.83E-03	1.38	5.44E-02	-1.22	2.76E-01
A_44_P116898	RGD130875 1	similar to Cathepsin L precursor (Major excreted protein) (MEP)	1.43E-02	1.68	1.66E-03	1.34	4.87E-02	-1.25	1.45E-01
A_64_P128478	RT1-DMa	RT1 class II, locus DMa	2.09E-02	1.68	2.99E-03	1.34	7.29E-02	-1.26	1.73E-01
A_64_P073003	Gusb	glucuronidase, beta	1.26E-02	1.68	1.39E-03	1.35	4.09E-02	-1.25	1.43E-01
A_44_P107634	Haus4	HAUS augmin-like complex, subunit 4	2.92E-03	1.68	1.40E-04	1.21	1.01E-01	-1.39	4.49E-03
A_44_P562251	Ncapg2	non-SMC condensin II complex, subunit G2	1.46E-03	1.68	4.01E-05	1.21	5.64E-02	-1.39	1.80E-03
A_64_P091388	Rai14	retinoic acid induced 14	8.50E-03	1.68	7.41E-04	1.26	9.38E-02	-1.33	3.29E-02
A_64_P164227			3.46E-03	1.67	1.66E-04	1.29	2.56E-02	-1.30	2.28E-02
A_64_P099032	Hist2h3c2	histone cluster 2, H3c2	4.14E-03	1.67	2.51E-04	1.21	1.24E-01	-1.39	7.07E-03
A_44_P318466	Trim25	tripartite motif-containing 25	5.62E-03	1.67	3.94E-04	1.23	1.04E-01	-1.36	1.46E-02
A_44_P179745	Fbn1	fibrillin 1	1.69E-02	1.67	2.21E-03	1.35	4.97E-02	-1.24	1.85E-01
A_64_P009355	Reep4	receptor accessory protein 4	1.15E-03	1.67	2.40E-05	1.22	3.51E-02	-1.37	1.51E-03
A_44_P296155	RT1-A2	RT1 class Ia, locus A2	2.21E-02	1.67	3.18E-03	1.29	1.16E-01	-1.29	1.18E-01

A_42_P655047	Prrx2	paired related homeobox 2	2.69E-03	1.67	1.25E-04	1.19	1.20E-01	-1.40	3.25E-03
A_44_P178811	Elk3	ELK3, ETS-domain protein	1.10E-03	1.67	3.39E-05	1.13	2.60E-01	-1.48	2.93E-04
A_64_P082393	Ahnak	AHNAK nucleoprotein	5.25E-03	1.67	3.35E-04	1.27	4.99E-02	-1.31	2.62E-02
A_43_P14228	Cot11	coactosin-like 1 (Dictyostelium)	1.92E-02	1.67	2.64E-03	1.25	1.76E-01	-1.34	6.30E-02
A_42_P611638	Sp110	SP110 nuclear body protein	1.49E-03	1.67	3.69E-05	1.27	1.45E-02	-1.31	6.30E-03
A_64_P033569	Tep1	telomerase associated protein 1	2.02E-03	1.67	6.56E-05	1.25	3.15E-02	-1.34	5.98E-03
A_64_P082401	Ahnak	AHNAK nucleoprotein	8.88E-04	1.66	1.47E-05	1.18	6.29E-02	-1.41	4.64E-04
A_44_P101490 2			4.46E-02	1.66	2.50E-02	-1.00	1.00E+00	-1.67	1.85E-02
A_64_P293606	Col4a1	collagen, type IV, alpha 1	3.68E-03	1.66	2.18E-04	1.19	1.42E-01	-1.39	5.20E-03
A_42_P704869	Phf19	PHD finger protein 19	1.08E-03	1.66	2.21E-05	1.19	5.63E-02	-1.39	8.59E-04
A_44_P996124	Tlr4	toll-like receptor 4	1.78E-02	1.66	2.30E-03	1.31	8.08E-02	-1.27	1.23E-01
A_64_P080002	Cks1b	CDC28 protein kinase regulatory subunit 1B	2.66E-02	1.66	4.32E-03	1.24	2.32E-01	-1.34	7.57E-02
A_64_P124473	Ltbp2	latent transforming growth factor beta binding protein 2	3.05E-02	1.66	5.25E-03	1.32	1.10E-01	-1.26	1.97E-01
A_44_P265058	Gmn	geminin	4.52E-03	1.66	2.83E-04	1.22	1.05E-01	-1.36	9.82E-03
A_64_P007895	Lrrn4cl	LRRN4 C-terminal like	9.75E-04	1.66	1.54E-05	1.23	1.92E-02	-1.35	1.54E-03
A_44_P140684	Col8a1	collagen, type VIII, alpha 1	1.02E-02	1.65	9.67E-04	1.26	8.63E-02	-1.31	4.79E-02
A_42_P678430	Card9	caspase recruitment domain family, member 9	5.00E-03	1.65	3.09E-04	1.29	3.33E-02	-1.28	3.60E-02
A_44_P531647	Plcg2	phospholipase C, gamma 2	4.40E-02	1.65	9.11E-03	1.25	2.51E-01	-1.32	1.41E-01
A_44_P367926			3.15E-02	1.65	5.50E-03	1.27	1.86E-01	-1.31	1.23E-01

A_43_P10944	LOC686539	similar to immunoglobulin superfamily containing leucine-rich repeat	1.62E-04	1.65	5.17E-07	1.11	1.24E-01	-1.49	4.14E-06
A_64_P164764	MGC105567	similar to cDNA sequence BC023105	3.62E-02	1.65	6.74E-03	1.30	1.48E-01	-1.27	1.86E-01
A_64_P116274	Fam65b	family with sequence similarity 65, member B	5.03E-03	1.65	3.15E-04	1.26	5.21E-02	-1.31	2.33E-02
A_44_P1028549	Casp4	caspase 4, apoptosis-related cysteine peptidase	4.23E-03	1.65	2.32E-04	1.30	2.25E-02	-1.27	3.83E-02
A_42_P824489	Tgm2	transglutaminase 2, C polypeptide	3.29E-03	1.65	1.73E-04	1.19	1.19E-01	-1.38	4.80E-03
A_44_P548203	Rbm3	RNA binding motif (RNP1, RRM) protein 3	2.33E-02	1.65	3.68E-03	1.21	2.64E-01	-1.36	5.52E-02
A_42_P688320	Gbp5	guanylate binding protein 5	1.23E-02	1.65	1.36E-03	1.35	3.44E-02	-1.23	1.64E-01
A_64_P002081			1.86E-02	1.65	2.90E-03	1.40	2.86E-02	-1.18	3.62E-01
A_64_P062288	Spdl1	spindle apparatus coiled-coil protein 1	5.44E-03	1.65	3.53E-04	1.30	2.97E-02	-1.27	4.66E-02
A_64_P139202	RT1-A1	RT1 class Ia, locus A1	1.47E-02	1.65	1.70E-03	1.27	1.00E-01	-1.29	7.38E-02
A_64_P113695	Myo7a	myosin VIIA	4.39E-03	1.64	2.46E-04	1.27	3.69E-02	-1.29	2.51E-02
A_64_P296046	Rhoc	ras homolog family member C	2.66E-02	1.64	4.34E-03	1.33	7.64E-02	-1.23	2.31E-01
A_43_P13241	Ctsd	cathepsin D	2.32E-02	1.64	4.07E-03	1.40	3.51E-02	-1.17	4.01E-01
A_64_P058923	Tes	testis derived transcript	4.27E-03	1.64	2.46E-04	1.23	6.72E-02	-1.33	1.34E-02
A_64_P072883			3.75E-02	1.64	7.20E-03	1.25	2.33E-01	-1.31	1.23E-01
A_64_P129315	Tgfbr2	transforming growth factor, beta receptor II	1.02E-03	1.64	1.66E-05	1.23	1.64E-02	-1.33	1.98E-03
A_64_P149501	Col4a1	collagen, type IV, alpha 1	7.13E-03	1.64	5.54E-04	1.25	7.91E-02	-1.31	2.86E-02
A_64_P073460	Col6a2	collagen, type VI, alpha 2	2.14E-02	1.64	3.90E-03	1.15	4.74E-01	-1.42	2.61E-02
A_64_P032208	Tap1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	4.12E-02	1.63	8.62E-03	1.34	9.96E-02	-1.22	3.23E-01

A_64_P081788	Olfml3	olfactomedin-like 3	6.55E-03	1.63	5.95E-04	1.17	2.55E-01	-1.40	8.14E-03
A_64_P028000	Tax1bp3	Tax1 (human T-cell leukemia virus type I) binding protein 3	6.38E-03	1.63	4.88E-04	1.21	1.20E-01	-1.34	1.58E-02
A_64_P060151	Ccdc93	coiled-coil domain containing 93	1.01E-02	1.63	9.51E-04	1.28	6.26E-02	-1.28	6.53E-02
A_64_P030866	Hist1h2af	histone cluster 1, H2af	4.77E-04	1.63	4.32E-06	1.16	4.81E-02	-1.40	1.26E-04
A_64_P100513			1.20E-03	1.63	4.36E-05	1.11	3.35E-01	-1.47	2.89E-04
A_64_P128438	Irf1	interferon regulatory factor 1	1.77E-03	1.63	5.22E-05	1.23	3.30E-02	-1.33	4.30E-03
A_64_P104282	Sla	src-like adaptor	2.07E-02	1.63	2.92E-03	1.24	1.68E-01	-1.31	7.36E-02
A_64_P019401	Sdf2l1	stromal cell-derived factor 2-like 1	1.14E-02	1.63	1.35E-03	1.18	2.72E-01	-1.38	1.84E-02
A_44_P991864	Ece1	endothelin converting enzyme 1	4.14E-03	1.63	3.88E-04	1.11	5.05E-01	-1.47	1.93E-03
A_44_P728469	Pter	phosphotriesterase related	6.64E-03	1.63	5.23E-04	1.21	1.19E-01	-1.34	1.72E-02
A_44_P328008	Alx3	aristaless-like homeobox 3	2.12E-02	1.63	3.01E-03	1.25	1.48E-01	-1.30	8.70E-02
A_44_P1040503	Pctp	phosphatidylcholine transfer protein	4.79E-02	1.63	1.06E-02	1.33	1.27E-01	-1.23	3.11E-01
A_64_P117949	Vsig2	V-set and immunoglobulin domain containing 2	3.19E-03	1.63	2.08E-04	1.14	2.89E-01	-1.43	2.09E-03
A_64_P107866	Myd88	myeloid differentiation primary response 88	1.30E-02	1.62	1.43E-03	1.30	5.24E-02	-1.24	1.17E-01
A_42_P819656	Cfh	complement factor H	1.61E-02	1.62	2.03E-03	1.32	5.27E-02	-1.23	1.63E-01
A_64_P011156	Fcgr2a	Fc fragment of IgG, low affinity IIa, receptor	2.07E-03	1.62	6.78E-05	1.24	2.70E-02	-1.31	7.28E-03
A_64_P160403	Pdgfrl	platelet-derived growth factor receptor-like	1.79E-02	1.62	3.25E-03	1.13	5.38E-01	-1.44	1.75E-02
A_44_P497553	Gcnt1	glucosaminyl (N-acetyl) transferase 1, core 2	3.82E-02	1.62	7.35E-03	1.30	1.36E-01	-1.25	2.16E-01
A_44_P317912	Aldh1a2	aldehyde dehydrogenase 1 family, member A2	4.09E-03	1.62	3.07E-04	1.14	3.02E-01	-1.42	3.10E-03

A_43_P12079	Ptges	prostaglandin E synthase	3.38E-02	1.62	6.12E-03	1.29	1.31E-01	-1.25	1.92E-01
A_43_P17022	Tmem173	transmembrane protein 173	1.94E-02	1.62	2.96E-03	1.37	3.59E-02	-1.18	3.10E-01
A_42_P562617	Irf5	interferon regulatory factor 5	1.72E-02	1.62	2.18E-03	1.28	9.23E-02	-1.27	1.03E-01
A_44_P393580	Esyt1	extended synaptotagmin-like protein 1	1.94E-02	1.62	2.67E-03	1.23	1.77E-01	-1.31	6.35E-02
A_64_P165297	Tnfrsf1b	tumor necrosis factor receptor superfamily, member 1b	3.58E-03	1.62	1.82E-04	1.32	1.08E-02	-1.23	5.90E-02
A_64_P033939	Mcm4	minichromosome maintenance complex component 4	5.63E-03	1.62	4.51E-04	1.17	2.11E-01	-1.38	7.53E-03
A_44_P257582	Csf1r	colony stimulating factor 1 receptor	4.35E-02	1.62	9.32E-03	1.34	1.01E-01	-1.21	3.39E-01
A_64_P094816			2.12E-03	1.62	1.50E-04	1.08	5.84E-01	-1.49	5.30E-04
A_44_P126061	Oasl2	2'-5' oligoadenylate synthetase-like 2	1.34E-02	1.61	1.47E-03	1.26	8.75E-02	-1.28	7.32E-02
A_42_P739929			1.13E-03	1.61	2.34E-05	1.20	3.67E-02	-1.34	1.41E-03
A_44_P144202	Serpinf1	serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1	3.52E-02	1.61	7.70E-03	1.16	4.76E-01	-1.39	5.23E-02
A_42_P780932	Fcn1	ficolin (collagen/fibrinogen domain containing) 1	3.38E-02	1.61	6.07E-03	1.28	1.43E-01	-1.26	1.75E-01
A_42_P658552	Ifngr1	interferon gamma receptor 1	2.01E-02	1.61	2.76E-03	1.26	1.19E-01	-1.28	1.01E-01
A_43_P15701	Rab13	RAB13, member RAS oncogene family	2.50E-02	1.61	3.83E-03	1.27	1.24E-01	-1.27	1.32E-01
A_64_P163291			1.01E-02	1.61	1.45E-03	1.12	5.37E-01	-1.44	7.43E-03
A_44_P477620	Pla2g4a	phospholipase A2, group IVA (cytosolic, calcium-dependent)	2.95E-02	1.61	5.28E-03	1.20	2.99E-01	-1.34	6.81E-02
A_64_P100148	LOC681383	similar to Protein C10orf11 homolog	1.48E-02	1.61	1.76E-03	1.23	1.39E-01	-1.30	5.41E-02
A_44_P143472	Ncapd2	non-SMC condensin I complex, subunit D2	6.17E-03	1.61	4.35E-04	1.24	6.37E-02	-1.29	2.74E-02

A_43_P15750	Cfd	complement factor D (adipsin)	1.07E-02	1.61	1.13E-03	1.20	1.78E-01	-1.34	2.56E-02
A_44_P474559	Eng	endoglin	3.74E-02	1.61	7.07E-03	1.25	1.98E-01	-1.28	1.45E-01
A_64_P074998	Itga4	integrin, alpha 4	3.56E-03	1.61	1.75E-04	1.24	3.91E-02	-1.29	1.59E-02
A_64_P020586	Crtap	cartilage associated protein	8.88E-04	1.60	1.59E-05	1.15	9.39E-02	-1.39	3.44E-04
A_43_P13069	Chek1	checkpoint kinase 1	6.54E-04	1.60	7.08E-06	1.19	2.41E-02	-1.35	4.49E-04
A_64_P036534	Set	SET nuclear oncogene	1.57E-02	1.60	1.90E-03	1.28	8.04E-02	-1.26	1.03E-01
A_44_P541053	Fbln5	fibulin 5	1.73E-03	1.60	7.47E-05	1.13	2.61E-01	-1.43	7.31E-04
A_64_P010373	RGD1563378	similar to ferritin heavy polypeptide-like 17	1.57E-02	1.60	1.98E-03	1.32	4.66E-02	-1.22	1.78E-01
A_64_P090548	Rassf4	Ras association (RalGDS/AF-6) domain family member 4	2.84E-02	1.60	4.99E-03	1.34	6.40E-02	-1.20	3.00E-01
A_64_P028803	Il10rb	interleukin 10 receptor, beta	3.07E-03	1.60	1.33E-04	1.27	1.89E-02	-1.26	2.37E-02
A_44_P146518	Col3a1	collagen, type III, alpha 1	1.44E-02	1.60	1.67E-03	1.24	1.19E-01	-1.29	6.05E-02
A_64_P072314			3.29E-03	1.60	1.54E-04	1.22	5.26E-02	-1.31	1.00E-02
A_64_P163031	Cklf	chemokine-like factor	2.97E-02	1.60	5.52E-03	1.18	3.50E-01	-1.35	5.81E-02
A_64_P156730	Nasp	nuclear autoantigenic sperm protein (histone-binding)	4.84E-03	1.59	3.58E-04	1.16	2.01E-01	-1.37	6.13E-03
A_64_P162262	Cklf	chemokine-like factor	1.36E-02	1.59	1.61E-03	1.20	1.94E-01	-1.33	3.39E-02
A_44_P477650	Adap2	ArfGAP with dual PH domains 2	9.45E-03	1.59	8.76E-04	1.22	1.06E-01	-1.30	3.45E-02
A_43_P15303	Erap1	endoplasmic reticulum aminopeptidase 1	1.47E-03	1.59	4.64E-05	1.16	1.13E-01	-1.37	1.06E-03
A_42_P509843	Tradd	TNFRSF1A-associated via death domain	7.09E-03	1.59	5.85E-04	1.20	1.37E-01	-1.33	1.67E-02
A_44_P172950			4.84E-04	1.59	5.30E-06	1.13	1.13E-01	-1.41	7.52E-05

A_64_P031046	Draxin	dorsal inhibitory axon guidance protein	1.18E-02	1.59	1.22E-03	1.25	8.15E-02	-1.27	6.48E-02
A_64_P089075	Nme4	non-metastatic cells 4, protein expressed in	3.47E-03	1.59	2.19E-04	1.15	2.17E-01	-1.38	3.19E-03
A_44_P904810	Nckap1l	NCK associated protein 1 like	4.03E-02	1.58	1.01E-02	1.40	4.85E-02	-1.13	5.89E-01
A_42_P841704	Sh3tc1	SH3 domain and tetratricopeptide repeats 1	3.68E-03	1.58	1.85E-04	1.25	2.91E-02	-1.26	2.28E-02
A_42_P698240	Ptgr1	prostaglandin reductase 1	7.98E-04	1.58	1.08E-05	1.18	3.26E-02	-1.34	5.85E-04
A_44_P1029397	Bst2	bone marrow stromal cell antigen 2	1.87E-02	1.58	2.50E-03	1.23	1.51E-01	-1.29	7.09E-02
A_64_P136597			1.30E-03	1.58	2.72E-05	1.26	7.68E-03	-1.26	8.01E-03
A_64_P061537			3.45E-02	1.58	6.95E-03	1.34	6.60E-02	-1.18	3.77E-01
A_64_P138543	Bmp2k	BMP-2 inducible kinase	4.22E-03	1.58	2.99E-04	1.15	2.32E-01	-1.37	4.20E-03
A_42_P465664	Eva1b	eva-1 homolog B	6.55E-03	1.58	4.90E-04	1.22	8.58E-02	-1.29	2.29E-02
A_64_P047371	Hist1h2ak	histone cluster 1, H2ak	1.41E-03	1.58	4.40E-05	1.14	1.39E-01	-1.38	7.97E-04
A_64_P084223	Gatsl3	GATS protein-like 3	2.57E-03	1.57	1.40E-04	1.13	2.62E-01	-1.39	1.51E-03
A_64_P147204	Ahnak	AHNAK nucleoprotein	3.13E-04	1.57	2.01E-06	1.12	8.36E-02	-1.40	2.99E-05
A_64_P032611	Ak2	adenylate kinase 2	9.39E-03	1.57	8.48E-04	1.25	6.66E-02	-1.26	5.43E-02
A_64_P043619	Slc38a5	solute carrier family 38, member 5	2.39E-02	1.57	4.65E-03	1.13	5.04E-01	-1.39	2.84E-02
A_42_P500280	Naglu	N-acetylglucosaminidase, alpha	3.24E-03	1.57	1.51E-04	1.21	5.28E-02	-1.30	9.77E-03
A_42_P548763	Slc39a1	solute carrier family 39 (zinc transporter), member 1	3.81E-03	1.57	2.02E-04	1.21	5.90E-02	-1.29	1.23E-02
A_64_P024655	Aebp1	AE binding protein 1	2.08E-03	1.57	7.87E-05	1.17	8.64E-02	-1.34	2.65E-03
A_44_P787936	Stat3	signal transducer and activator of transcription 3 (acute-phase response factor)	1.33E-02	1.57	1.48E-03	1.23	1.18E-01	-1.28	5.42E-02

A_64_P026344	Tln1	talin 1	3.04E-03	1.57	1.38E-04	1.20	5.78E-02	-1.30	7.94E-03
A_42_P727368	Cdca7	cell division cycle associated 7	1.14E-02	1.57	1.18E-03	1.22	1.16E-01	-1.29	4.35E-02
A_43_P23014	Lpxn	leupaxin	1.45E-02	1.57	1.68E-03	1.28	6.14E-02	-1.23	1.18E-01
A_64_P010214	Mms22l	MMS22-like, DNA repair protein	4.35E-04	1.57	4.97E-06	1.10	1.93E-01	-1.42	4.17E-05
A_64_P044435	Tgif1	TGFB-induced factor homeobox 1	2.73E-02	1.57	4.48E-03	1.29	8.41E-02	-1.21	2.19E-01
A_64_P086314			1.43E-02	1.57	2.57E-03	1.10	6.18E-01	-1.42	1.06E-02
A_64_P065789	Ccdc109b	coiled-coil domain containing 109B	3.19E-02	1.57	6.01E-03	1.32	7.06E-02	-1.19	3.21E-01
A_64_P057222	RT1-S2	RT1 class Ib, locus S2	4.11E-03	1.57	2.69E-04	1.16	1.84E-01	-1.35	4.91E-03
A_42_P473425	Unc13d	unc-13 homolog D (C. elegans)	1.31E-03	1.56	3.09E-05	1.19	3.66E-02	-1.31	2.00E-03
A_43_P12090	Pold1	polymerase (DNA directed), delta 1, catalytic subunit	2.72E-03	1.56	1.18E-04	1.19	7.45E-02	-1.32	5.04E-03
A_42_P629321	Wisp2	WNT1 inducible signaling pathway protein 2	2.38E-02	1.56	8.91E-03	1.03	9.76E-01	-1.53	9.79E-03
A_64_P076900	Nedd1	neural precursor cell expressed, developmentally down-regulated 1	1.91E-02	1.56	2.93E-03	1.17	3.25E-01	-1.34	3.34E-02
A_64_P034749	RGD1560859	similar to 2300003P22Rik protein	2.01E-03	1.56	7.50E-05	1.17	9.72E-02	-1.34	2.21E-03
A_44_P200968	Tlr6	toll-like receptor 6	1.72E-02	1.56	2.32E-03	1.31	4.35E-02	-1.19	2.17E-01
A_44_P358194	Fmo3	flavin containing monooxygenase 3	8.68E-03	1.56	2.10E-03	1.03	9.50E-01	-1.52	2.58E-03
A_64_P133632	RGD1306058	similar to RIKEN cDNA 1110007C09	1.64E-02	1.56	2.04E-03	1.23	1.18E-01	-1.27	7.49E-02
A_44_P579594	Dse	dermatan sulfate epimerase	9.12E-04	1.56	1.26E-05	1.22	1.16E-02	-1.28	1.92E-03
A_64_P193845	Ppp1r14b	protein phosphatase 1, regulatory (inhibitor) subunit 14B	3.86E-03	1.56	2.12E-04	1.20	7.50E-02	-1.30	1.01E-02
A_64_P100904	Mef2bnb	MEF2B neighbor	1.02E-03	1.56	2.47E-05	1.12	1.81E-01	-1.39	3.01E-04



A_64_P091243	LOC691221	similar to CG1998-PA	7.44E-03	1.56	7.64E-04	1.14	3.17E-01	-1.37	8.10E-03
A_44_P175584	RGD1561520	similar to Ab2-162	2.13E-02	1.56	3.09E-03	1.28	7.44E-02	-1.22	1.75E-01
A_44_P487910	Lrrc33	leucine rich repeat containing 33	5.05E-03	1.56	3.16E-04	1.23	4.83E-02	-1.27	2.54E-02
A_64_P074715	Layn	layilin	3.05E-03	1.56	1.43E-04	1.19	7.31E-02	-1.31	6.47E-03
A_64_P046754	Igfbp3	insulin-like growth factor binding protein 3	1.92E-04	1.56	6.71E-07	1.12	6.17E-02	-1.40	9.86E-06
A_64_P000604	Tradd	TNFRSF1A-associated via death domain	4.81E-03	1.56	3.71E-04	1.15	2.37E-01	-1.36	5.21E-03
A_64_P009810	Ybx1	Y box binding protein 1	9.40E-04	1.56	1.69E-05	1.16	5.83E-02	-1.34	5.92E-04
A_42_P616287	C1r	complement component 1, r subcomponent	5.81E-03	1.56	3.94E-04	1.23	5.82E-02	-1.27	2.69E-02
A_64_P107414	Apbb1ip	amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein	1.26E-02	1.56	1.42E-03	1.30	3.68E-02	-1.20	1.60E-01
A_43_P16547	Rras	related RAS viral (r-ras) oncogene homolog	5.94E-04	1.55	5.98E-06	1.17	2.70E-02	-1.33	3.24E-04
A_44_P293169	Mical1	microtubule associated monooxygenase, calponin and LIM domain containing 1	1.05E-02	1.55	1.01E-03	1.24	7.48E-02	-1.25	5.78E-02
A_64_P142119			1.99E-02	1.55	2.81E-03	1.29	6.10E-02	-1.20	1.92E-01
A_64_P147993	Hist2h2ac	histone cluster 2, H2ac	1.16E-03	1.55	3.60E-05	1.11	2.36E-01	-1.39	3.51E-04
A_64_P114863			1.45E-03	1.55	3.53E-05	1.21	2.20E-02	-1.28	3.94E-03
A_44_P1007008	Ube2l6	ubiquitin-conjugating enzyme E2L 6	6.81E-03	1.55	5.12E-04	1.22	6.63E-02	-1.27	3.15E-02
A_64_P160862			7.10E-03	1.55	5.41E-04	1.24	5.16E-02	-1.25	4.32E-02
A_42_P626433	Scara5	scavenger receptor class A, member 5 (putative)	2.36E-02	1.55	3.57E-03	1.28	8.05E-02	-1.21	1.86E-01
A_42_P773816	Cd1d1	CD1d1 molecule	2.37E-02	1.55	3.54E-03	1.26	1.03E-01	-1.23	1.48E-01
A_44_P471901	Ptbp3	polypyrimidine tract binding protein 3	3.29E-02	1.55	5.88E-03	1.23	1.92E-01	-1.26	1.26E-01

A_64_P090475	RT1-CE5	RT1 class I, locus CE5	2.57E-03	1.55	1.15E-04	1.16	1.21E-01	-1.33	2.92E-03
A_44_P1025349	Uba7	ubiquitin-like modifier activating enzyme 7	4.50E-02	1.54	9.42E-03	1.21	2.64E-01	-1.27	1.38E-01
A_44_P838888	Brip1	BRCA1 interacting protein C-terminal helicase 1	7.32E-03	1.54	5.78E-04	1.22	7.14E-02	-1.26	3.34E-02
A_44_P1042783	Tpm2	tropomyosin 2, beta	3.53E-03	1.54	1.93E-04	1.17	1.07E-01	-1.32	6.13E-03
A_64_P136679	Rab7b	Rab7b, member RAS oncogene family	4.65E-02	1.54	9.82E-03	1.25	1.72E-01	-1.23	2.23E-01
A_64_P090400	Ska2	spindle and kinetochore associated complex subunit 2	2.15E-02	1.54	3.26E-03	1.19	2.42E-01	-1.30	5.43E-02
A_64_P123931	Polr3g	polymerase (RNA) III (DNA directed) polypeptide G	2.34E-03	1.54	1.14E-04	1.13	2.04E-01	-1.36	1.60E-03
A_43_P14634	Mcm4	minichromosome maintenance complex component 4	2.70E-03	1.54	1.27E-04	1.16	1.25E-01	-1.33	3.15E-03
A_64_P006354	Sfn	stratifin	2.71E-02	1.54	4.35E-03	1.27	9.99E-02	-1.22	1.82E-01
A_44_P822447	Ctla2a	cytotoxic T lymphocyte-associated protein 2 alpha	3.43E-02	1.54	6.52E-03	1.19	2.91E-01	-1.29	8.68E-02
A_64_P105338			6.48E-03	1.54	4.71E-04	1.22	6.13E-02	-1.26	3.11E-02
A_64_P086610	Eef2k	eukaryotic elongation factor-2 kinase	1.50E-03	1.54	6.74E-05	1.10	3.64E-01	-1.40	4.29E-04
A_44_P113974	Ccr5	chemokine (C-C motif) receptor 5	1.58E-02	1.54	1.96E-03	1.28	5.32E-02	-1.20	1.57E-01
A_64_P012902	Sdf2l1	stromal cell-derived factor 2-like 1	8.99E-03	1.54	9.64E-04	1.15	2.73E-01	-1.34	1.27E-02
A_64_P024464			1.25E-03	1.54	2.55E-05	1.23	9.03E-03	-1.25	6.26E-03
A_64_P005043	Nt5dc2	5'-nucleotidase domain containing 2	3.34E-04	1.54	2.19E-06	1.12	6.90E-02	-1.37	3.92E-05
A_43_P22864	Rad54l	RAD54 like ( <i>S. cerevisiae</i> )	2.08E-03	1.54	8.07E-05	1.16	1.02E-01	-1.33	2.31E-03
A_64_P072032	LOC688591	ferritin light chain-like	2.11E-02	1.54	3.11E-03	1.29	5.84E-02	-1.19	2.19E-01
A_44_P1025613	Pon3	paraoxonase 3	8.65E-03	1.54	7.66E-04	1.21	9.72E-02	-1.27	3.28E-02

A_64_P096106			8.03E-03	1.54	6.64E-04	1.24	5.42E-02	-1.24	5.15E-02
A_64_P102807	RT1-T18	RT1 class Ib, locus T18	4.51E-02	1.54	9.32E-03	1.24	1.99E-01	-1.24	1.85E-01
A_42_P505241	Qprt	quinolinate phosphoribosyltransferase	3.63E-04	1.54	2.34E-06	1.14	3.73E-02	-1.35	7.24E-05
A_43_P11739	Ctsl1	cathepsin L1	2.33E-02	1.53	3.97E-03	1.33	3.97E-02	-1.16	3.61E-01
A_42_P720155	LOC500700	similar to chromosome 14 open reading frame 145	1.23E-02	1.53	1.32E-03	1.21	1.16E-01	-1.27	4.88E-02
A_64_P056512	Apbb1ip	amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein	5.14E-03	1.53	3.25E-04	1.25	2.61E-02	-1.22	4.85E-02
A_44_P456792	Lamc1	laminin, gamma 1	1.88E-02	1.53	2.50E-03	1.26	8.00E-02	-1.22	1.35E-01
A_64_P092611			1.08E-03	1.53	2.08E-05	1.18	3.03E-02	-1.30	1.45E-03
A_44_P153774	Plce1	phospholipase C, epsilon 1	3.06E-02	1.53	5.87E-03	1.16	3.74E-01	-1.32	5.64E-02
A_64_P139516			1.61E-03	1.53	4.41E-05	1.20	2.88E-02	-1.28	3.98E-03
A_44_P164132	Tmem220	transmembrane protein 220	4.49E-02	1.53	9.24E-03	1.24	1.91E-01	-1.24	1.91E-01
A_64_P038168			1.75E-02	1.53	2.34E-03	1.29	4.86E-02	-1.19	1.99E-01
A_64_P092170	Igtp	interferon gamma induced GTPase	2.70E-02	1.53	4.33E-03	1.25	1.06E-01	-1.22	1.73E-01
A_64_P022235	Anp32b	acidic (leucine-rich) nuclear phosphoprotein 32 family, member B	2.41E-03	1.53	1.44E-04	1.10	3.66E-01	-1.39	1.01E-03
A_64_P045544			4.66E-03	1.53	2.87E-04	1.19	7.96E-02	-1.28	1.35E-02
A_43_P12234	Ptbp1	polypyrimidine tract binding protein 1	1.33E-03	1.53	3.27E-05	1.17	4.76E-02	-1.30	1.66E-03
A_64_P130547			3.10E-02	1.53	5.46E-03	1.27	9.74E-02	-1.20	2.28E-01
A_44_P394228	Amdhd2	amidohydrolase domain containing 2	1.96E-02	1.53	2.67E-03	1.21	1.55E-01	-1.26	7.36E-02
A_64_P010887	Sat1	spermidine/spermine N1-acetyl transferase 1	3.60E-02	1.53	8.41E-03	1.35	4.52E-02	-1.13	5.50E-01

A_44_P127337	Rbpms	RNA binding protein with multiple splicing	6.54E-04	1.53	7.06E-06	1.17	2.38E-02	-1.31	4.53E-04
A_44_P332422	C1s	complement component 1, s subcomponent	9.33E-03	1.53	8.57E-04	1.20	1.02E-01	-1.27	3.53E-02
A_64_P110003			8.53E-03	1.52	7.29E-04	1.23	5.59E-02	-1.23	5.52E-02
A_42_P518033	Hsd17b1	hydroxysteroid (17-beta) dehydrogenase 1	2.03E-02	1.52	2.98E-03	1.18	2.37E-01	-1.29	5.06E-02
A_43_P18268			3.05E-04	1.52	1.30E-06	1.15	1.52E-02	-1.32	7.19E-05
A_44_P1017481	Timp2	TIMP metalloproteinase inhibitor 2	7.23E-03	1.52	5.76E-04	1.20	9.24E-02	-1.27	2.53E-02
A_44_P452176	Chi3l1	chitinase 3-like 1 (cartilage glycoprotein-39)	3.11E-02	1.52	5.47E-03	1.26	1.04E-01	-1.20	2.16E-01
A_64_P139463	Slc10a7	solute carrier family 10 (sodium/bile acid cotransporter family), member 7	2.58E-02	1.52	4.02E-03	1.25	1.08E-01	-1.22	1.58E-01
A_64_P019653			1.21E-02	1.52	1.55E-03	1.14	3.29E-01	-1.33	1.66E-02
A_42_P671206	LOC100910973	uncharacterized LOC100910973	3.51E-03	1.52	1.70E-04	1.24	2.26E-02	-1.23	2.66E-02
A_64_P009809	Ybx1	Y box binding protein 1	6.33E-03	1.52	4.47E-04	1.22	5.30E-02	-1.24	3.41E-02
A_44_P192543	Fkbp11	FK506 binding protein 11	1.13E-02	1.52	1.19E-03	1.19	1.45E-01	-1.28	3.43E-02
A_44_P240819	Stt3b	STT3, subunit of the oligosaccharyltransferase complex, homolog B ( <i>S. cerevisiae</i> )	1.56E-02	1.52	1.90E-03	1.21	1.31E-01	-1.26	6.23E-02
A_64_P061855	Recq4	RecQ protein-like 4	6.31E-03	1.52	4.46E-04	1.22	5.70E-02	-1.25	3.15E-02
A_64_P141847	Bcl2l12	BCL2-like 12 (proline rich)	3.85E-02	1.52	8.41E-03	1.32	6.50E-02	-1.15	4.36E-01
A_44_P899293	Snai1	snail homolog 1 ( <i>Drosophila</i> )	1.82E-02	1.52	2.37E-03	1.24	9.30E-02	-1.23	1.11E-01
A_64_P059895	Bgn	biglycan	1.20E-02	1.51	1.25E-03	1.25	5.77E-02	-1.22	9.39E-02
A_64_P001542	Rps27l	ribosomal protein S27-like	1.94E-02	1.51	2.66E-03	1.26	6.67E-02	-1.20	1.69E-01
A_44_P1006261	Nme4	non-metastatic cells 4, protein expressed in	9.53E-03	1.51	9.66E-04	1.17	1.93E-01	-1.30	1.95E-02

A_64_P133657	Timd2	T-cell immunoglobulin and mucin domain containing 2	5.77E-03	1.51	3.85E-04	1.23	4.03E-02	-1.23	3.81E-02
A_42_P658264	Nfkb2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2, p49/p100	7.61E-03	1.51	6.07E-04	1.23	4.93E-02	-1.23	5.14E-02
A_42_P628839	Ano6	anoctamin 6	8.61E-03	1.51	7.60E-04	1.20	9.85E-02	-1.26	3.21E-02
A_43_P12586	Ptgis	prostaglandin I2 (prostacyclin) synthase	1.51E-02	1.51	2.85E-03	1.09	6.41E-01	-1.39	1.10E-02
A_42_P757414	Diaph3	diaphanous homolog 3 (Drosophila)	2.86E-02	1.51	4.71E-03	1.21	1.72E-01	-1.24	1.15E-01
A_64_P114908			1.62E-03	1.51	4.75E-05	1.29	2.49E-03	-1.17	5.04E-02
A_44_P106456	Pdlim2	PDZ and LIM domain 2	2.77E-04	1.51	1.06E-06	1.14	2.28E-02	-1.33	3.89E-05
A_44_P463822	Homer3	homer homolog 3 (Drosophila)	1.01E-02	1.51	9.41E-04	1.23	6.48E-02	-1.23	6.24E-02
A_44_P1049252	Naprt1	nicotinate phosphoribosyltransferase domain containing 1	1.77E-03	1.51	6.43E-05	1.14	1.30E-01	-1.32	1.35E-03
A_64_P069033	LOC298795	similar to 14-3-3 protein sigma	4.58E-02	1.50	9.59E-03	1.22	2.19E-01	-1.24	1.72E-01
A_64_P006794	Plod2	procollagen lysine, 2-oxoglutarate 5-dioxygenase 2	4.46E-02	1.50	9.47E-03	1.27	1.20E-01	-1.19	2.99E-01
A_44_P212850	Fgf2	fibroblast growth factor 2	4.12E-02	1.50	8.66E-03	1.17	3.36E-01	-1.28	9.53E-02
A_43_P15587	Map3k8	mitogen-activated protein kinase kinase kinase 8	4.12E-02	1.50	8.65E-03	1.28	9.88E-02	-1.18	3.26E-01
A_64_P014278	Golm1	golgi membrane protein 1	2.96E-02	1.50	5.53E-03	1.30	5.59E-02	-1.16	3.60E-01
A_42_P468723	Cln5	ceroid-lipofuscinosis, neuronal 5	1.78E-02	1.50	2.30E-03	1.22	1.12E-01	-1.23	8.97E-02
A_64_P057225	RT1-S2	RT1 class Ib, locus S2	3.74E-02	1.50	7.06E-03	1.21	2.01E-01	-1.24	1.42E-01
A_64_P067778			3.35E-04	1.50	2.67E-06	1.10	1.33E-01	-1.37	2.82E-05
A_43_P10923	Scamp2	secretory carrier membrane protein 2	1.03E-02	1.50	1.02E-03	1.26	3.53E-02	-1.19	1.21E-01
A_44_P180717	Pstpip1	proline-serine-threonine phosphatase-interacting protein 1	9.52E-03	1.50	1.03E-03	1.14	2.62E-01	-1.31	1.44E-02

A_64_P027941			1.44E-02	1.50	1.79E-03	1.16	2.28E-01	-1.29	3.13E-02
A_64_P029242	Pak6	p21 protein (Cdc42/Rac)-activated kinase 6	1.83E-02	-1.50	2.99E-03	-1.13	4.13E-01	1.33	2.44E-02
A_42_P783572	Atp1a1	ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, alpha 1 polypeptide	1.24E-03	-1.50	2.79E-05	-1.17	3.77E-02	1.28	1.71E-03
A_64_P097907	Camk1g	calcium/calmodulin-dependent protein kinase IG	7.92E-03	-1.50	6.52E-04	-1.21	7.77E-02	1.25	3.49E-02
A_64_P039656	Th	tyrosine hydroxylase	1.56E-02	-1.50	2.73E-03	-1.10	5.55E-01	1.36	1.38E-02
A_44_P776423	Opalin	oligodendrocytic myelin paranodal and inner loop protein	8.99E-03	-1.50	1.02E-03	-1.13	3.30E-01	1.33	1.05E-02
A_44_P448181	Clstn1	calsyntenin 1	3.25E-02	-1.51	6.74E-03	-1.14	4.44E-01	1.32	5.07E-02
A_44_P527024	Col11a2	collagen, type XI, alpha 2	4.56E-02	-1.51	9.54E-03	-1.22	2.24E-01	1.24	1.67E-01
A_64_P142640	Gjc3	gap junction protein, gamma 3	1.21E-03	-1.51	4.58E-05	-1.09	3.67E-01	1.39	2.72E-04
A_64_P112909			3.38E-02	-1.51	6.24E-03	-1.19	2.48E-01	1.27	1.00E-01
A_44_P468380	Kcni2	Kv channel-interacting protein 2	3.21E-02	-1.51	5.83E-03	-1.27	8.96E-02	1.19	2.58E-01
A_43_P14919	Pdp1	pyruvate dehydrogenase phosphatase catalytic subunit 1	4.85E-03	-1.51	4.99E-04	-1.09	5.04E-01	1.39	2.55E-03
A_44_P440686	Map3k10	mitogen activated protein kinase kinase kinase 10	1.92E-04	-1.51	5.49E-07	-1.11	4.59E-02	1.36	9.68E-06
A_64_P110284	Tbc1d10c	TBC1 domain family, member 10C	1.99E-02	-1.51	2.72E-03	-1.23	1.04E-01	1.23	1.13E-01
A_64_P017363	Slc30a3	solute carrier family 30 (zinc transporter), member 3	1.07E-02	-1.51	1.30E-03	-1.14	3.26E-01	1.33	1.40E-02
A_64_P085896	Grin1	glutamate receptor, ionotropic, N-methyl D-aspartate 1	1.79E-03	-1.51	6.06E-05	-1.16	8.54E-02	1.31	1.96E-03
A_64_P019200	RGD1560608	similar to novel protein	8.50E-03	-1.51	7.28E-04	-1.22	6.70E-02	1.24	4.58E-02
A_64_P126685	Gucy1b3	guanylate cyclase 1, soluble, beta 3	5.50E-03	-1.52	4.91E-04	-1.12	3.16E-01	1.35	4.95E-03
A_43_P15426	Trpc3	transient receptor potential cation channel, subfamily C, member 3	4.94E-03	-1.52	4.34E-04	-1.12	3.45E-01	1.36	3.84E-03

A_44_P156589	Ngef	neuronal guanine nucleotide exchange factor	2.12E-02	-1.52	3.18E-03	-1.18	2.36E-01	1.28	5.45E-02
A_44_P135006	Trim9	tripartite motif-containing 9	1.02E-02	-1.52	1.17E-03	-1.15	2.84E-01	1.32	1.50E-02
A_43_P12967	Cap2	CAP, adenylate cyclase-associated protein, 2 (yeast)	5.38E-03	-1.52	5.06E-04	-1.11	3.77E-01	1.36	4.01E-03
A_43_P10560	Ncald	neurocalcin delta	1.22E-03	-1.52	3.47E-05	-1.12	1.51E-01	1.35	5.48E-04
A_43_P11774	Grin1	glutamate receptor, ionotropic, N-methyl D-aspartate 1	5.77E-03	-1.52	5.18E-04	-1.13	3.05E-01	1.35	5.52E-03
A_64_P165964	Hpca	hippocalcin	5.53E-03	-1.52	4.15E-04	-1.16	1.62E-01	1.31	9.35E-03
A_64_P002814	Grhl3	grainyhead-like 3 (Drosophila)	4.50E-02	-1.52	1.98E-02	-1.03	9.70E-01	1.48	2.37E-02
A_44_P790674	Opn3	opsin 3	9.34E-05	-1.52	1.63E-07	-1.07	2.12E-01	1.42	7.04E-07
A_43_P15933	Chrm4	cholinergic receptor, muscarinic 4	3.29E-03	-1.52	1.69E-04	-1.16	1.08E-01	1.31	5.22E-03
A_64_P058280			1.08E-02	-1.52	2.28E-03	-1.05	8.37E-01	1.44	4.59E-03
A_64_P031467	Cdk5r2	cyclin-dependent kinase 5, regulatory subunit 2 (p39)	1.12E-02	-1.52	1.13E-03	-1.21	1.06E-01	1.26	4.55E-02
A_44_P185110	Ube2q1	ubiquitin-conjugating enzyme E2Q family-like 1	1.82E-03	-1.52	9.97E-05	-1.09	4.43E-01	1.40	5.14E-04
A_43_P15511	Slc5a7	solute carrier family 5 (choline transporter), member 7	2.40E-02	-1.53	3.67E-03	-1.21	1.86E-01	1.27	8.28E-02
A_42_P687133	Nrgn	neurogranin	2.27E-03	-1.53	8.57E-05	-1.18	6.23E-02	1.30	4.14E-03
A_44_P517858	Svop	SV2 related protein	3.24E-03	-1.53	1.66E-04	-1.17	1.07E-01	1.31	5.12E-03
A_64_P117770	Rgs7	regulator of G-protein signaling 7	6.44E-03	-1.53	5.57E-04	-1.15	2.22E-01	1.33	9.00E-03
A_44_P885889	Fam81a	family with sequence similarity 81, member A	5.06E-04	-1.53	4.65E-06	-1.15	3.73E-02	1.33	1.74E-04
A_44_P930152	Mpped1	metallophosphoesterase domain containing 1	2.09E-02	-1.53	3.24E-03	-1.17	2.95E-01	1.31	4.22E-02
A_44_P252491	Kcnj4	potassium inwardly-rectifying channel, subfamily J, member 4	1.34E-02	-1.53	1.55E-03	-1.19	1.74E-01	1.29	3.70E-02

A_44_P430547	Ntrk1	neurotrophic tyrosine kinase, receptor, type 1	1.53E-02	-1.53	1.83E-03	-1.22	1.18E-01	1.26	6.75E-02
A_64_P024981	Chn1	chimerin (chimaerin) 1	6.55E-03	-1.53	7.83E-04	-1.10	5.23E-01	1.40	3.95E-03
A_64_P041219	Pcsk1	proprotein convertase subtilisin/kexin type 1	2.76E-03	-1.54	1.57E-04	-1.12	2.52E-01	1.37	1.81E-03
A_44_P507911	Nexn	nexilin (F actin binding protein)	4.36E-02	-1.54	9.41E-03	-1.18	3.50E-01	1.30	9.83E-02
A_44_P414565	Gabra5	gamma-aminobutyric acid (GABA) A receptor, alpha 5	9.37E-04	-1.54	1.83E-05	-1.14	9.76E-02	1.35	3.95E-04
A_64_P074440	Rbm24	RNA binding motif protein 24	1.43E-02	-1.54	1.94E-03	-1.15	3.18E-01	1.34	2.22E-02
A_64_P144253	Shank2	SH3 and multiple ankyrin repeat domains 2	1.32E-02	-1.54	1.51E-03	-1.19	1.67E-01	1.29	3.77E-02
A_64_P092995	Nanos1	nanos homolog 1 (Drosophila)	3.05E-04	-1.54	1.42E-06	-1.13	4.14E-02	1.36	3.49E-05
A_64_P019966	Snap25	synaptosomal-associated protein 25	3.89E-04	-1.54	3.50E-06	-1.11	1.35E-01	1.39	3.85E-05
A_43_P11980	Rasgrp1	RAS guanyl releasing protein 1 (calcium and DAG-regulated)	4.51E-04	-1.54	4.88E-06	-1.11	1.50E-01	1.39	5.20E-05
A_44_P550490	Grem1	gremlin 1	2.20E-02	-1.54	3.18E-03	-1.23	1.47E-01	1.26	9.24E-02
A_64_P047168	Arpp21	cAMP-regulated phosphoprotein 21	3.34E-03	-1.55	1.98E-04	-1.15	1.90E-01	1.35	3.31E-03
A_64_P131036	Dos	downstream of Stk11	7.05E-04	-1.55	8.11E-06	-1.18	1.96E-02	1.31	6.50E-04
A_64_P035871			2.92E-03	-1.55	1.35E-04	-1.18	8.13E-02	1.31	5.41E-03
A_42_P739860	Dusp5	dual specificity phosphatase 5	3.09E-02	-1.55	9.94E-03	-1.06	8.75E-01	1.46	1.87E-02
A_44_P368065	Adprh1	ADP-ribosylhydrolase like 1	3.38E-02	-1.55	1.67E-02	-1.00	1.00E+00	1.54	1.35E-02
A_44_P455228	Mgat5b	mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-glucosaminyltransferase, isozyme B	2.43E-02	-1.55	3.66E-03	-1.25	1.22E-01	1.24	1.28E-01
A_44_P190541	Sgsm2	small G protein signaling modulator 2	3.71E-04	-1.55	2.26E-06	-1.16	2.39E-02	1.34	1.02E-04
A_64_P127551	LOC680442	hypothetical protein LOC680442	1.00E-02	-1.55	4.99E-03	1.04	9.23E-01	1.62	1.80E-03



A_64_P072054	Dlgap3	discs, large (Drosophila) homolog-associated protein 3	1.16E-02	-1.55	1.18E-03	-1.24	8.21E-02	1.25	6.24E-02
A_64_P113404	Mapk11	mitogen-activated protein kinase 11	2.73E-03	-1.55	1.33E-04	-1.15	1.44E-01	1.35	2.85E-03
A_44_P493606	Camk2n1	calcium/calmodulin-dependent protein kinase II inhibitor 1	1.58E-02	-1.55	2.07E-03	-1.18	2.27E-01	1.31	3.66E-02
A_44_P1050809	MGC114464	similar to expressed sequence AI836003	2.63E-03	-1.56	1.30E-04	-1.14	1.77E-01	1.36	2.20E-03
A_64_P029581	R3hdm1	R3H domain containing 1	1.21E-02	-1.56	1.79E-03	-1.12	4.79E-01	1.39	1.13E-02
A_43_P16403	Clca1	chloride channel accessory 1	2.85E-02	-1.56	7.29E-03	-1.09	7.27E-01	1.42	2.26E-02
A_64_P013932	Cckbr	cholecystokinin B receptor	1.53E-02	-1.56	1.83E-03	-1.27	6.39E-02	1.23	1.24E-01
A_43_P12023	Nr4a2	nuclear receptor subfamily 4, group A, member 2	3.56E-03	-1.56	2.01E-04	-1.17	1.25E-01	1.33	5.44E-03
A_44_P1029253	Mas1	MAS1 oncogene	2.90E-02	-1.56	5.61E-03	-1.16	4.14E-01	1.35	4.66E-02
A_44_P995504	LOC100125362	hypothetical protein LOC100125362	2.31E-03	-1.56	1.32E-04	-1.11	3.41E-01	1.41	1.01E-03
A_64_P154952	Nr4a2	nuclear receptor subfamily 4, group A, member 2	2.83E-03	-1.56	1.18E-04	-1.21	4.66E-02	1.29	8.28E-03
A_44_P476598	RGD1559864	similar to mKIAA1045 protein	9.53E-04	-1.57	2.34E-05	-1.11	2.20E-01	1.41	2.28E-04
A_42_P675802	Olfm3	olfactomedin 3	2.16E-03	-1.57	1.20E-04	-1.11	3.41E-01	1.41	9.04E-04
A_44_P274491	Large	like-glycosyltransferase	8.03E-04	-1.57	2.17E-05	-1.08	4.51E-01	1.46	8.94E-05
A_64_P163070	Grm4	glutamate receptor, metabotropic 4	9.30E-03	-1.57	8.91E-04	-1.20	1.51E-01	1.32	2.38E-02
A_44_P851961	Fbx116	F-box and leucine-rich repeat protein 16	6.94E-03	-1.57	5.48E-04	-1.21	1.05E-01	1.30	2.08E-02
A_64_P085871	Syndig11	synapse differentiation inducing 1-like	2.75E-02	-1.58	4.60E-03	-1.31	7.70E-02	1.21	2.41E-01
A_64_P116501	Kcnf1	potassium voltage-gated channel, subfamily F, member 1	6.94E-03	-1.58	5.85E-04	-1.18	1.62E-01	1.33	1.38E-02
A_44_P583834	Cobl	cordon-bleu WH2 repeat protein	1.04E-02	-1.58	1.11E-03	-1.18	2.08E-01	1.34	2.09E-02

A_64_P059993	Shank1	SH3 and multiple ankyrin repeat domains 1	2.23E-03	-1.58	4.18E-04	1.02	9.79E-01	1.61	2.02E-04
A_44_P1015754	Slc22a3	solute carrier family 22 (extraneuronal monoamine transporter), member 3	4.05E-02	-1.58	8.58E-03	-1.19	3.56E-01	1.33	8.77E-02
A_43_P23283	St8sia5	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5	1.13E-02	-1.58	1.37E-03	-1.16	2.97E-01	1.36	1.67E-02
A_44_P269425	Necab2	N-terminal EF-hand calcium binding protein 2	1.06E-03	-1.58	1.96E-05	-1.19	3.74E-02	1.33	1.10E-03
A_44_P192193			2.77E-04	-1.58	1.26E-06	-1.11	1.12E-01	1.43	1.32E-05
A_44_P104054	Crhbp	corticotropin releasing hormone binding protein	4.08E-02	-1.59	1.31E-02	-1.08	8.20E-01	1.47	3.06E-02
A_44_P628515			8.03E-04	-1.59	1.82E-05	-1.10	2.96E-01	1.44	1.22E-04
A_44_P263117	Etv5	ets variant 5	1.91E-03	-1.59	5.86E-05	-1.23	2.72E-02	1.30	6.02E-03
A_43_P12540	Dgkz	diacylglycerol kinase zeta	1.53E-02	-1.59	2.84E-03	-1.11	6.20E-01	1.44	1.17E-02
A_64_P142922	Cabp1	calcium binding protein 1	8.36E-04	-1.59	1.37E-05	-1.16	6.75E-02	1.37	3.94E-04
A_64_P060628	Prmt8	protein arginine methyltransferase 8	3.13E-04	-1.60	2.20E-06	-1.12	1.08E-01	1.43	2.67E-05
A_43_P19118	LOC681849	similar to Protein C6orf142 homolog	1.75E-02	-1.60	2.42E-03	-1.20	2.38E-01	1.33	4.08E-02
A_64_P048516	Kctd8	potassium channel tetramerisation domain containing 8	6.55E-04	-1.60	1.10E-05	-1.11	2.07E-01	1.44	1.00E-04
A_64_P115417	Ntrk1	neurotrophic tyrosine kinase, receptor, type 1	1.33E-02	-1.61	1.46E-03	-1.26	8.43E-02	1.27	7.54E-02
A_64_P108009	Nrarp	Notch-regulated ankyrin repeat protein	1.13E-02	-1.61	1.39E-03	-1.16	3.23E-01	1.38	1.52E-02
A_42_P710324	Nkiras1	NFKB inhibitor interacting Ras-like 1	6.11E-04	-1.61	8.63E-06	-1.13	1.45E-01	1.43	1.07E-04
A_44_P256301	Grem1	gremlin 1	4.51E-04	-1.61	4.12E-06	-1.14	6.98E-02	1.41	8.54E-05
A_64_P096083			1.44E-03	-1.61	6.66E-05	-1.10	4.34E-01	1.47	3.35E-04
A_44_P433359	Pde1b	phosphodiesterase 1B, calmodulin-dependent	9.37E-04	-1.61	1.46E-05	-1.21	2.42E-02	1.34	1.15E-03

A_43_P12779	Nrn1	neuritin 1	2.00E-03	-1.62	1.41E-04	-1.08	6.26E-01	1.50	4.39E-04
A_44_P320752	Rasl11a	RAS-like family 11 member A	1.07E-03	-1.62	2.43E-05	-1.16	1.04E-01	1.40	5.22E-04
A_42_P584045	Pde10a	phosphodiesterase 10A	4.52E-02	-1.62	9.85E-03	-1.33	1.08E-01	1.21	3.35E-01
A_42_P570635			3.96E-02	-1.62	8.54E-03	-1.19	3.98E-01	1.36	7.51E-02
A_44_P538839	Rasgrp2	RAS guanyl releasing protein 2 (calcium and DAG-regulated)	3.97E-02	-1.62	8.35E-03	-1.35	8.43E-02	1.20	3.60E-01
A_64_P109202	Ctxn3	cortexin 3	4.33E-04	-1.62	6.00E-06	-1.08	3.76E-01	1.50	2.59E-05
A_44_P791030			1.46E-02	-1.63	1.80E-03	-1.21	1.94E-01	1.34	3.80E-02
A_64_P107095	Sgcz	sarcoglycan zeta	2.88E-03	-1.63	4.39E-04	-1.02	9.80E-01	1.60	4.11E-04
A_64_P158945	Tcap	titin-cap	7.76E-03	-1.63	7.58E-04	-1.17	2.51E-01	1.39	1.09E-02
A_44_P116591	Cx3cl1	chemokine (C-X3-C motif) ligand 1	1.97E-03	-1.63	7.24E-05	-1.18	9.81E-02	1.38	2.10E-03
A_64_P010763	Ptpn3	protein tyrosine phosphatase, non-receptor type 3	1.24E-02	-1.63	1.40E-03	-1.22	1.76E-01	1.34	3.25E-02
A_64_P099886	Vegfa	vascular endothelial growth factor A	2.38E-02	-1.63	4.86E-03	-1.13	5.63E-01	1.44	2.47E-02
A_44_P151638	Cyp11b1	cytochrome P450, family 11, subfamily b, polypeptide 1	3.19E-03	-1.64	3.88E-04	-1.05	8.45E-01	1.56	6.74E-04
A_64_P048230	Tmem72	transmembrane protein 72	2.53E-02	-1.64	6.55E-03	-1.09	7.69E-01	1.50	1.77E-02
A_42_P534882	Vsn1	visinin-like 1	3.68E-03	-1.64	2.56E-04	-1.15	2.69E-01	1.43	2.93E-03
A_42_P540711	Rasd2	RASD family, member 2	3.22E-02	-1.64	5.70E-03	-1.25	2.03E-01	1.31	1.15E-01
A_64_P012680	LOC685987	similar to spermatogenesis associated glutamate (E)-rich protein 4b	1.51E-04	-1.65	3.58E-07	-1.11	1.07E-01	1.49	2.98E-06
A_64_P064371	Spata2L	spermatogenesis associated 2-like	6.08E-03	-1.65	4.66E-04	-1.21	1.46E-01	1.37	1.21E-02
A_44_P338381	Cadps2	Ca <sup>++</sup> -dependent secretion activator 2	1.64E-03	-1.65	6.91E-05	-1.13	2.56E-01	1.46	6.82E-04

A_64_P111898	Mmp17	matrix metalloproteinase 17	3.01E-03	-1.66	1.70E-04	-1.16	2.01E-01	1.42	2.60E-03
A_44_P331706	Dnajb5	DnaJ (Hsp40) homolog, subfamily B, member 5	2.60E-03	-1.66	1.34E-04	-1.16	2.14E-01	1.43	1.84E-03
A_43_P11897	Gabrd	gamma-aminobutyric acid (GABA) A receptor, delta	2.74E-02	-1.66	4.41E-03	-1.27	1.76E-01	1.31	1.05E-01
A_44_P220519	Lingo1	leucine rich repeat and Ig domain containing 1	3.37E-03	-1.67	2.46E-04	-1.13	3.63E-01	1.47	1.89E-03
A_64_P101130	Cckbr	cholecystokinin B receptor	3.60E-02	-1.67	6.67E-03	-1.30	1.54E-01	1.29	1.78E-01
A_44_P152395	Rnd1	Rho family GTPase 1	2.81E-03	-1.68	1.37E-04	-1.19	1.33E-01	1.41	3.22E-03
A_64_P100103	Far2	fatty acyl CoA reductase 2	1.32E-03	-1.68	4.27E-05	-1.15	1.92E-01	1.46	5.40E-04
A_64_P114960	Kcnk4	potassium channel, subfamily K, member 4	1.97E-03	-1.68	6.62E-05	-1.22	5.97E-02	1.38	3.16E-03
A_64_P047616	Prmt8	protein arginine methyltransferase 8	6.58E-04	-1.69	9.51E-06	-1.15	1.14E-01	1.47	1.51E-04
A_64_P122247	Hcrtr1	hypocretin (orexin) receptor 1	4.26E-03	-1.69	3.53E-04	-1.14	3.60E-01	1.48	2.87E-03
A_64_P104553	Itpka	inositol-trisphosphate 3-kinase A	9.28E-03	-1.69	9.22E-04	-1.22	1.88E-01	1.39	1.92E-02
A_43_P18201	Ovol2	ovo-like 2 (Drosophila)	4.19E-03	-1.70	2.94E-04	-1.18	2.26E-01	1.44	4.25E-03
A_64_P089356	Syt12	synaptotagmin XII	1.58E-03	-1.70	7.52E-05	-1.12	3.82E-01	1.52	4.57E-04
A_44_P445044	Apold1	apolipoprotein L domain containing 1	1.78E-02	-1.70	1.10E-02	1.06	9.26E-01	1.80	4.09E-03
A_64_P075087	Camk1g	calcium/calmodulin-dependent protein kinase IG	1.99E-05	-1.70	9.87E-09	-1.10	6.68E-02	1.55	5.70E-08
A_64_P000534	Sept5	septin 5	2.16E-03	-1.71	1.13E-04	-1.14	2.89E-01	1.49	1.04E-03
A_44_P467591	Neu2	sialidase 2 (cytosolic sialidase)	3.06E-02	-1.71	5.24E-03	-1.29	1.77E-01	1.33	1.24E-01
A_64_P093798	Otof	otoferlin	5.00E-03	-1.73	4.87E-04	-1.14	4.37E-01	1.52	3.10E-03
A_44_P388650	Camk4	calcium/calmodulin-dependent protein kinase IV	1.11E-02	-1.73	1.18E-03	-1.24	1.78E-01	1.40	2.69E-02

A_44_P150471	Gpr88	G-protein coupled receptor 88	2.43E-02	-1.74	3.75E-03	-1.27	2.01E-01	1.37	7.76E-02
A_44_P545553	Dgkb	diacylglycerol kinase, beta	1.27E-02	-1.74	1.39E-03	-1.27	1.36E-01	1.37	4.33E-02
A_64_P132856	Lhx8	LIM homeobox 8	1.97E-02	-1.75	3.00E-03	-1.22	3.04E-01	1.44	3.73E-02
A_44_P254984	Pnlip	pancreatic lipase	2.91E-03	-1.75	1.55E-04	-1.19	1.81E-01	1.47	2.64E-03
A_44_P1034950	Adora2a	adenosine A2a receptor	4.82E-02	-1.75	1.04E-02	-1.34	1.75E-01	1.31	2.30E-01
A_64_P031910	Pde10a	phosphodiesterase 10A	1.29E-02	-1.76	1.40E-03	-1.34	6.95E-02	1.31	8.76E-02
A_42_P636627	Cartpt	CART prepropeptide	7.87E-03	-1.78	7.26E-04	-1.23	1.97E-01	1.45	1.40E-02
A_64_P129720	Cacng3	calcium channel, voltage-dependent, gamma subunit 3	1.78E-03	-1.79	7.37E-05	-1.17	2.09E-01	1.53	9.36E-04
A_44_P215157	Lin7b	lin-7 homolog b (C. elegans)	5.51E-03	-1.79	4.02E-04	-1.24	1.40E-01	1.44	1.07E-02
A_64_P074725			1.58E-03	-1.79	8.04E-05	-1.12	4.41E-01	1.60	4.06E-04
A_64_P005223	Ppp1r1b	protein phosphatase 1, regulatory (inhibitor) subunit 1B	1.87E-03	-1.80	6.24E-05	-1.24	6.77E-02	1.45	2.58E-03
A_42_P743580	Rgs4	regulator of G-protein signaling 4	1.53E-03	-1.81	6.30E-05	-1.16	2.68E-01	1.57	5.81E-04
A_44_P314969	Slc6a3	solute carrier family 6 (neurotransmitter transporter, dopamine), member 3	2.75E-02	-1.81	4.63E-03	-1.27	2.54E-01	1.42	7.29E-02
A_43_P12559	Camkk2	calcium/calmodulin-dependent protein kinase kinase 2, beta	2.86E-02	-1.84	4.89E-03	-1.29	2.49E-01	1.43	7.89E-02
A_44_P307559	Chrna3	cholinergic receptor, nicotinic, alpha 3 (neuronal)	3.22E-02	-1.85	6.02E-03	-1.27	3.09E-01	1.46	7.44E-02
A_43_P11932	Nr4a3	nuclear receptor subfamily 4, group A, member 3	1.22E-02	-1.86	2.92E-03	-1.07	8.83E-01	1.74	5.00E-03
A_64_P131370	Calr4	calreticulin 4	2.75E-02	-1.87	5.30E-03	-1.22	4.37E-01	1.53	4.07E-02
A_64_P118532	Casr	calcium-sensing receptor	1.42E-02	-1.87	1.61E-03	-1.39	6.79E-02	1.35	1.03E-01
A_44_P158758	Calcr	calcitonin receptor	3.69E-02	-1.87	8.71E-03	-1.20	5.53E-01	1.57	4.65E-02

A_43_P11794	Tacr3	tachykinin receptor 3	1.75E-02	-1.88	2.82E-03	-1.21	4.17E-01	1.56	2.26E-02
A_64_P131051	Fos	FBJ osteosarcoma oncogene	2.27E-02	-1.91	8.02E-03	-1.04	9.64E-01	1.83	9.59E-03
A_43_P12995	Kcns1	potassium voltage-gated channel, delayed-rectifier, subfamily S, member 1	2.16E-03	-1.92	1.69E-04	-1.10	6.70E-01	1.75	4.70E-04
A_44_P1024627	Kcnv1	potassium channel, subfamily V, member 1	1.06E-05	-1.93	9.26E-10	-1.12	2.88E-02	1.73	5.03E-09
A_64_P069261	Arl4d	ADP-ribosylation factor-like 4D	8.09E-04	-1.94	1.09E-05	-1.28	2.59E-02	1.51	7.38E-04
A_64_P125345	Kcnh4	potassium voltage-gated channel, subfamily H (eag-related), member 4	3.06E-03	-1.98	1.64E-04	-1.25	1.57E-01	1.59	3.31E-03
A_64_P116972	Crh	corticotropin releasing hormone	1.83E-02	-1.98	3.28E-03	-1.20	5.18E-01	1.66	1.89E-02
A_43_P12478	Crh	corticotropin releasing hormone	1.75E-02	-2.02	3.13E-03	-1.20	5.29E-01	1.69	1.73E-02
A_44_P384017	Sncg	synuclein, gamma (breast cancer-specific protein 1)	2.29E-02	-2.03	6.83E-03	-1.09	8.89E-01	1.86	1.20E-02
A_43_P12927	Dusp1	dual specificity phosphatase 1	1.81E-03	-2.07	9.92E-05	-1.15	4.42E-01	1.79	5.13E-04
A_44_P870348	Slc35d3	solute carrier family 35, member D3	2.90E-02	-2.10	6.41E-03	-1.21	5.77E-01	1.73	3.15E-02
A_64_P010905			9.05E-03	-2.13	1.01E-03	-1.26	3.08E-01	1.69	1.14E-02
A_43_P15530	S100b	S100 calcium binding protein B	1.05E-02	-2.16	1.88E-03	-1.14	7.15E-01	1.89	5.61E-03
A_64_P108389	Plekhh1	pleckstrin homology domain containing, family H (with MyTH4 domain) member 1	8.47E-03	-2.19	4.59E-03	1.10	8.64E-01	2.42	1.29E-03
A_44_P437896	Bdnf	brain-derived neurotrophic factor	7.87E-03	-2.21	8.87E-04	-1.24	3.91E-01	1.78	7.13E-03
A_44_P398529	Lamp5	lysosomal-associated membrane protein family, member 5	1.28E-03	-2.26	3.49E-05	-1.28	1.12E-01	1.76	7.54E-04
A_43_P12619	Nr4a3	nuclear receptor subfamily 4, group A, member 3	2.23E-03	-2.27	1.27E-04	-1.21	3.51E-01	1.88	9.25E-04
A_64_P023694	Enthd1	ENTH domain containing 1	1.06E-03	-2.29	2.60E-05	-1.25	1.54E-01	1.83	3.79E-04
A_44_P233080	Egr1	early growth response 1	1.46E-03	-2.78	6.49E-05	-1.24	3.79E-01	2.25	3.91E-04

A_64_P052697	Tmco5a	transmembrane and coiled-coil domains 5A	1.07E-03	-2.83	2.57E-05	-1.34	1.32E-01	2.10	4.41E-04
A_44_P345298	Cort	cortistatin	2.10E-03	-3.10	7.09E-05	-1.64	3.22E-02	1.90	6.45E-03
A_64_P082693	Egr1	early growth response 1	3.89E-04	-3.15	4.07E-06	-1.25	2.35E-01	2.51	2.72E-05
A_42_P682589	Nr4a1	nuclear receptor subfamily 4, group A, member 1	5.45E-04	-3.37	9.38E-06	-1.23	3.85E-01	2.74	4.21E-05
A_42_P473594	Egr2	early growth response 2	7.31E-03	-4.27	8.76E-04	-1.41	4.74E-01	3.03	5.24E-03
A_44_P118724	Arc	activity-regulated cytoskeleton-associated protein	1.02E-03	-4.28	3.94E-05	-1.24	5.66E-01	3.45	1.26E-04
A_42_P708068	Egr4	early growth response 4	1.41E-03	-4.60	8.04E-05	-1.23	6.50E-01	3.73	2.20E-04

<sup>a</sup> Probe ID of Agilent rat mRNA microarray chip (SurePrint G3 Rat Gene Expression 8x60k, Agilent Inc., CA, USA)

<sup>b</sup> p-value of ANOVA test after correction of Benjamini-Hochberg's test

Abbreviation: FD, fold difference; NL, normal group

Supplementary Ttable 2. List of differentially expressed genes between MSC group and sham group

Probe ID <sup>a</sup>	Gene symbol	Gene name	MSC vs. Sham	
			FD	<i>p</i>
A_42_P708068	Egr4	early growth response 4	3.73	2.20E-04
A_44_P118724	Arc	activity-regulated cytoskeleton-associated protein	3.45	1.26E-04
A_42_P473594	Egr2	early growth response 2	3.03	5.24E-03
A_42_P682589	Nr4a1	nuclear receptor subfamily 4, group A, member 1	2.74	4.21E-05
A_64_P082693	Egr1	early growth response 1	2.51	2.72E-05
A_64_P108389	Plekhh1	pleckstrin homology domain containing, family H (with MyTH4 domain) member 1	2.42	1.29E-03
A_44_P233080	Egr1	early growth response 1	2.25	3.91E-04
A_64_P052697	Tmco5a	transmembrane and coiled-coil domains 5A	2.10	4.41E-04
A_44_P345298	Cort	cortistatin	1.90	6.45E-03
A_43_P15530	S100b	S100 calcium binding protein B	1.89	5.61E-03
A_43_P12619	Nr4a3	nuclear receptor subfamily 4, group A, member 3	1.88	9.25E-04
A_44_P384017	Sncg	synuclein, gamma (breast cancer-specific protein 1)	1.86	1.20E-02
A_64_P131051	Fos	FBJ osteosarcoma oncogene	1.83	9.59E-03
A_64_P023694	Enthd1	ENTH domain containing 1	1.83	3.79E-04
A_44_P445044	Apold1	apolipoprotein L domain containing 1	1.80	4.09E-03
A_43_P12927	Dusp1	dual specificity phosphatase 1	1.79	5.13E-04
A_44_P437896	Bdnf	brain-derived neurotrophic factor	1.78	7.13E-03
A_44_P398529	Lamp5	lysosomal-associated membrane protein family, member 5	1.76	7.54E-04
A_43_P12995	Kcns1	potassium voltage-gated channel, delayed-rectifier, subfamily S, member 1	1.75	4.70E-04
A_43_P11932	Nr4a3	nuclear receptor subfamily 4, group A, member 3	1.74	5.00E-03
A_44_P1024627	Kcnv1	potassium channel, subfamily V, member 1	1.73	5.03E-09
A_44_P870348	Slc35d3	solute carrier family 35, member D3	1.73	3.15E-02
A_43_P12478	Crh	corticotropin releasing hormone	1.69	1.73E-02
A_64_P010905			1.69	1.14E-02
A_64_P116972	Crh	corticotropin releasing hormone	1.66	1.89E-02
A_64_P081780			1.65	3.89E-02



A_64_P127551	LOC680442	hypothetical protein LOC680442	1.62	1.80E-03
A_64_P059993	Shank1	SH3 and multiple ankyrin repeat domains 1	1.61	2.02E-04
A_64_P074725			1.60	4.06E-04
A_64_P107095	Sgcz	sarcoglycan zeta	1.60	4.11E-04
A_64_P125345	Kcnh4	potassium voltage-gated channel, subfamily H (eag-related), member 4	1.59	3.31E-03
A_44_P158758	Calcr	calcitonin receptor	1.57	4.65E-02
A_42_P743580	Rgs4	regulator of G-protein signaling 4	1.57	5.81E-04
A_43_P11794	Tacr3	tachykinin receptor 3	1.56	2.26E-02
A_44_P151638	Cyp11b1	cytochrome P450, family 11, subfamily b, polypeptide 1	1.56	6.74E-04
A_64_P075087	Camk1g	calcium/calmodulin-dependent protein kinase IG	1.55	5.70E-08
A_64_P054818	LOC690326	hypothetical protein LOC690326	1.55	6.87E-03
A_44_P368065	Adprh1	ADP-ribosylhydrolase like 1	1.54	1.35E-02
A_64_P124205			1.53	2.33E-02
A_64_P131370	Calr4	calreticulin 4	1.53	4.07E-02
A_64_P129720	Cacng3	calcium channel, voltage-dependent, gamma subunit 3	1.53	9.36E-04
A_64_P161195	Tmigd1	transmembrane and immunoglobulin domain containing 1	1.52	3.23E-02
A_64_P093798	Otof	otoferlin	1.52	3.10E-03
A_64_P089356	Syt12	synaptotagmin XII	1.52	4.57E-04
A_64_P010950	Vom1r23	vomeronasal 1 receptor 23	1.52	3.88E-02
A_44_P433818	Frem3	FRAS1 related extracellular matrix 3	1.51	2.63E-02
A_64_P069261	Arl4d	ADP-ribosylation factor-like 4D	1.51	7.38E-04
A_64_P048230	Tmem72	transmembrane protein 72	1.50	1.77E-02
A_43_P12779	Nrn1	neuritin 1	1.50	4.39E-04
A_64_P151318	LOC313641	perlecan	-1.50	7.34E-05
A_44_P458878	Tcf19	transcription factor 19	-1.50	5.77E-03
A_42_P812008	Nupr1	nuclear protein, transcriptional regulator, 1	-1.50	7.53E-03
A_44_P144741	Blnk	B-cell linker	-1.51	1.13E-02
A_44_P102380 1	Kif23	kinesin family member 23	-1.51	2.80E-03
A_64_P155186	Aurka	aurora kinase A	-1.51	3.81E-03

A_42_P527141	Foxm1	forkhead box M1	-1.51	3.20E-03
A_64_P055102	Eci3	enoyl-Coenzyme A delta isomerase 3	-1.51	1.52E-03
A_64_P056689			-1.51	7.55E-05
A_44_P248133	Tagln2	transgelin 2	-1.51	4.67E-02
A_44_P161233	Il18	interleukin 18	-1.51	2.18E-02
A_64_P022615	Vamp5	vesicle-associated membrane protein 5	-1.51	1.36E-03
A_44_P301608	Ucp2	uncoupling protein 2 (mitochondrial, proton carrier)	-1.51	4.88E-03
A_44_P178519	Adamts7	ADAM metallopeptidase with thrombospondin type 1 motif, 7	-1.51	1.37E-04
A_64_P068622	Hist1h2ail	histone cluster 1, H2ai-like	-1.51	1.75E-03
A_44_P358194	Fmo3	flavin containing monooxygenase 3	-1.52	2.58E-03
A_64_P015549	Lyl1	lymphoblastic leukemia derived sequence 1	-1.52	1.93E-03
A_64_P027048	Mcm2	minichromosome maintenance complex component 2	-1.52	7.11E-04
A_64_P080025	Serping1	serpin peptidase inhibitor, clade G (C1 inhibitor), member 1	-1.52	1.09E-02
A_42_P629321	Wisp2	WNT1 inducible signaling pathway protein 2	-1.53	9.79E-03
A_64_P052626	Msn	moesin	-1.53	4.07E-02
A_44_P1039249	Dok3	docking protein 3	-1.53	2.06E-02
A_44_P297777	Flna	filamin A, alpha	-1.53	1.30E-03
A_44_P520859	Pkmyt1	protein kinase, membrane associated tyrosine/threonine 1	-1.53	1.23E-03
A_64_P045506			-1.53	6.18E-04
A_64_P098454	Fermt3	fermitin family member 3	-1.53	8.42E-03
A_64_P078679	Slc22a2	solute carrier family 22 (organic cation transporter), member 2	-1.54	2.64E-02
A_44_P501898	Chtf18	CTF18, chromosome transmission fidelity factor 18 homolog (S. cerevisiae)	-1.54	3.75E-05
A_44_P681660	Fn1	fibronectin 1	-1.54	4.45E-03
A_64_P1627609	LOC100362769	hypothetical protein LOC100362769	-1.54	1.15E-02
A_64_P012061	Bmp7	bone morphogenetic protein 7	-1.54	5.86E-05
A_42_P771570	Cd33	CD33 molecule	-1.54	3.17E-02
A_44_P276338	Mcm6	minichromosome maintenance complex component 6	-1.55	1.05E-02
A_44_P879764	B4galt1	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 1	-1.55	1.26E-02
A_64_P137075	Col7a1	collagen, type VII, alpha 1	-1.55	5.31E-03

A_44_P104131 2	Fes	feline sarcoma oncogene	-1.55	2.89E- 02
A_42_P794130	Cdc20	cell division cycle 20 homolog (S. cerevisiae)	-1.55	1.98E- 03
A_64_P126851	LOC498276	Fc gamma receptor II beta	-1.55	2.25E- 02
A_64_P124249	LOC690976	similar to Calponin-2 (Calponin H2, smooth muscle) (Neutral calponin)	-1.56	5.85E- 03
A_64_P084995	Tnfrsf26	tumor necrosis factor receptor superfamily, member 26	-1.56	8.42E- 03
A_44_P105225	Loxl2	lysyl oxidase-like 2	-1.56	1.35E- 02
A_43_P13117	Lcp2	lymphocyte cytosolic protein 2	-1.56	3.07E- 02
A_43_P15904	Fcgr1a	Fc fragment of IgG, high affinity Ia, receptor (CD64)	-1.56	3.60E- 02
A_44_P808057	Lrrc8a	leucine rich repeat containing 8 family, member A	-1.56	2.02E- 02
A_64_P083600	Fxyd5	FXFD domain-containing ion transport regulator 5	-1.56	6.45E- 03
A_43_P11448	Cp	ceruloplasmin (ferroxidase)	-1.56	4.62E- 03
A_44_P579385	Ahnak	AHNAK nucleoprotein	-1.57	2.39E- 05
A_43_P11749	Hck	hemopoietic cell kinase	-1.57	4.94E- 02
A_64_P155950			-1.57	8.37E- 04
A_44_P354078	Hist1h1a	histone cluster 1, H1a	-1.57	1.24E- 03
A_44_P113933	Tyms	thymidylate synthetase	-1.57	1.02E- 03
A_64_P100963	Ncaph	non-SMC condensin I complex, subunit H	-1.57	1.27E- 02
A_64_P019719	Srpx2	sushi-repeat-containing protein, X-linked 2	-1.57	3.42E- 03
A_64_P024297	Gmfg	glia maturation factor, gamma	-1.57	1.64E- 02
A_64_P114913	Vwf	von Willebrand factor	-1.58	5.87E- 03
A_44_P103704 1	Map3k6	mitogen-activated protein kinase kinase kinase 6	-1.58	3.41E- 03
A_64_P071973	Fcgr2b	Fc fragment of IgG, low affinity IIb, receptor (CD32)	-1.58	2.34E- 02
A_44_P105048 0	Ecm1	extracellular matrix protein 1	-1.59	1.07E- 03
A_44_P518500	Racgap1	Rac GTPase-activating protein 1	-1.59	3.55E- 02
A_64_P045476	C1qb	complement component 1, q subcomponent, B chain	-1.60	2.89E- 03
A_64_P068473			-1.60	9.67E- 03
A_44_P103009 8	Cdc45	cell division cycle 45 homolog (S. cerevisiae)	-1.61	3.92E- 04
A_64_P050660	Tnfaip8l2	tumor necrosis factor, alpha-induced protein 8-like 2	-1.61	1.27E- 02
A_42_P480224	Gpd1	glycerol-3-phosphate dehydrogenase 1 (soluble)	-1.61	9.10E- 03

A_64_P144492	Mall	mal, T-cell differentiation protein-like	-1.61	2.98E-03
A_64_P041526	Hmgb2	high mobility group box 2	-1.62	4.52E-04
A_64_P041797	Hspb9	heat shock protein, alpha-crystallin-related, B9	-1.63	7.57E-03
A_42_P588944	Mgp	matrix Gla protein	-1.64	1.69E-04
A_64_P034414	Tnf	tumor necrosis factor	-1.65	2.84E-04
A_44_P513385	Dab2	disabled 2, mitogen-responsive phosphoprotein	-1.66	2.84E-05
A_64_P038872	A2m	alpha-2-macroglobulin	-1.66	2.61E-03
A_64_P101301	Clec4a3	C-type lectin domain family 4, member A3	-1.66	1.83E-02
A_44_P515852	Tpx2	TPX2, microtubule-associated, homolog (Xenopus laevis)	-1.66	2.93E-03
A_42_P576953	Pla1a	phospholipase A1 member A	-1.66	3.92E-03
A_44_P286788	Ncf4	neutrophil cytosolic factor 4	-1.66	4.82E-02
A_44_P500708	C1qc	complement component 1, q subcomponent, C chain	-1.66	1.62E-02
A_64_P038873	A2m	alpha-2-macroglobulin	-1.67	2.48E-03
A_64_P038414	Lox	lysyl oxidase	-1.67	1.57E-03
A_44_P1014902			-1.67	1.85E-02
A_42_P565275	Aspm	asp (abnormal spindle) homolog, microcephaly associated (Drosophila)	-1.67	3.83E-03
A_64_P123346	Xdh	xanthine dehydrogenase	-1.67	6.24E-03
A_42_P839964	Plin2	perilipin 2	-1.68	3.26E-02
A_42_P517399	Emp3	epithelial membrane protein 3	-1.68	2.12E-02
A_42_P567268	Mt2A	metallothionein 2A	-1.68	1.24E-02
A_64_P001401	Tinagl1	tubulointerstitial nephritis antigen-like 1	-1.68	4.65E-03
A_44_P1020422	Nes	nestin	-1.68	8.33E-03
A_44_P226597	Pycard	PYD and CARD domain containing	-1.69	1.56E-02
A_64_P134741	Hcls1	hematopoietic cell specific Lyn substrate 1	-1.69	3.35E-03
A_64_P144944	Dab2	disabled 2, mitogen-responsive phosphoprotein	-1.69	2.21E-05
A_64_P107105			-1.69	1.01E-04
A_64_P158939	Mt2A	metallothionein 2A	-1.70	1.12E-02
A_44_P344346	Arpc1b	actin related protein 2/3 complex, subunit 1B	-1.70	2.09E-02
A_44_P237153	Birc5	baculoviral IAP repeat-containing 5	-1.70	3.04E-03

A_64_P136571	Ssc5d	scavenger receptor cysteine rich domain containing (5 domains)	-1.71	4.60E-03
A_43_P13102	Ada	adenosine deaminase	-1.71	1.16E-04
A_64_P044663	Rac2	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)	-1.71	2.32E-02
A_64_P107106	Hmgb2	high mobility group box 2	-1.71	1.28E-04
A_42_P544601	Tspo	translocator protein	-1.72	4.69E-02
A_44_P993328	Ms4a11	membrane-spanning 4-domains, subfamily A, member 11	-1.73	2.26E-02
A_64_P011779	Sult1a1	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1	-1.74	4.59E-02
A_64_P066979	Hist1h1b	histone cluster 1, H1b	-1.75	1.19E-02
A_64_P148321	Nes	nestin	-1.75	5.49E-03
A_64_P018781	Calcb	calcitonin-related polypeptide, beta	-1.75	4.57E-02
A_64_P005576	Anxa2	annexin A2	-1.75	2.36E-04
A_64_P051322	Ncf1	neutrophil cytosolic factor 1	-1.75	2.96E-02
A_64_P104538	Ttk	Ttk protein kinase	-1.75	9.81E-04
A_64_P016810	Myo1f	myosin IF	-1.76	3.23E-02
A_64_P108200	Kif22	kinesin family member 22	-1.76	8.68E-03
A_43_P11537	Rbp1	retinol binding protein 1, cellular	-1.77	1.20E-04
A_44_P465931	Clic1	chloride intracellular channel 1	-1.77	2.10E-02
A_44_P577090	Rad51	RAD51 homolog (S. cerevisiae)	-1.77	2.02E-03
A_44_P463313	Plk1	polo-like kinase 1	-1.77	4.98E-03
A_64_P268234	Spc24-ps1	SPC24, NDC80 kinetochore complex component, homolog (S. cerevisiae), pseudogene 1	-1.78	1.64E-05
A_44_P306439	Fcgr3a	Fc fragment of IgG, low affinity IIIa, receptor	-1.78	1.87E-02
A_44_P339798	Hist1h1b	histone cluster 1, H1b	-1.80	5.71E-03
A_42_P735417	Fcgr2b	Fc fragment of IgG, low affinity IIb, receptor (CD32)	-1.81	1.03E-02
A_42_P843603	Tk1	thymidine kinase 1, soluble	-1.81	3.46E-03
A_64_P031691	Actg2	actin, gamma 2, smooth muscle, enteric	-1.81	3.96E-03
A_64_P028205	Lrg1	leucine-rich alpha-2-glycoprotein 1	-1.81	6.01E-04
A_44_P874677	Tmem252	transmembrane protein 252	-1.82	3.03E-03
A_64_P050303	Spc25	SPC25, NDC80 kinetochore complex component, homolog (S. cerevisiae)	-1.83	5.72E-03

A_44_P486312	Fmo2	flavin containing monooxygenase 2	-1.83	1.40E-02
A_64_P052745	Mcm3	minichromosome maintenance complex component 3	-1.83	8.73E-03
A_44_P234129	Dlgap5	discs, large (Drosophila) homolog-associated protein 5	-1.84	3.23E-03
A_43_P17697	Ms4a6b	membrane-spanning 4-domains, subfamily A, member 6B	-1.84	7.61E-03
A_42_P520891	Prc1	protein regulator of cytokinesis 1	-1.84	1.32E-02
A_44_P426107	Akr1b8	aldo-keto reductase family 1, member B8	-1.85	7.61E-04
A_64_P060291	Glipr1	GLI pathogenesis-related 1	-1.85	3.70E-02
A_44_P378799	Igfbp6	insulin-like growth factor binding protein 6	-1.85	7.43E-05
A_44_P445070	Lgals1	lectin, galactoside-binding, soluble, 1	-1.86	5.97E-03
A_42_P712191	Gins1	GIN5 complex subunit 1 (Psf1 homolog)	-1.89	1.28E-03
A_42_P581001	S100a6	S100 calcium binding protein A6	-1.89	8.21E-04
A_64_P162764			-1.89	4.06E-03
A_43_P11614	Anxa1	annexin A1	-1.89	2.35E-04
A_64_P123603	Mt1a	metallothionein 1a	-1.89	6.10E-03
A_64_P048461	Mcm3	minichromosome maintenance complex component 3	-1.90	2.05E-03
A_42_P788740	Folr2	folate receptor 2 (fetal)	-1.90	1.99E-02
A_44_P822041	LOC685108	similar to proteolipid protein 2	-1.91	5.40E-03
A_44_P588315	Lyve1	lymphatic vessel endothelial hyaluronan receptor 1	-1.91	6.53E-03
A_64_P126065	Hcst	hematopoietic cell signal transducer	-1.91	6.06E-04
A_44_P550662	Ms4a6a	membrane-spanning 4-domains, subfamily A, member 6A	-1.93	4.96E-03
A_64_P025753	Bub1	budding uninhibited by benzimidazoles 1 homolog (yeast)	-1.94	3.74E-03
A_64_P071495	Actg2	actin, gamma 2, smooth muscle, enteric	-1.95	1.67E-02
A_42_P509365	Vim	vimentin	-1.97	7.32E-03
A_64_P166385	Kifc1	kinesin family member C1	-1.97	2.66E-04
A_64_P153552	LOC100362296	protein S100-A11-like	-1.97	6.20E-03
A_64_P019260	Cd68	Cd68 molecule	-1.97	4.39E-02
A_43_P11370	Plp2	proteolipid protein 2 (colonic epithelium-enriched)	-1.99	1.89E-03
A_43_P14233	Pttg1	pituitary tumor-transforming 1	-1.99	5.45E-03
A_42_P576823	Mki67	antigen identified by monoclonal antibody Ki-67	-2.00	7.94E-04

A_44_P360772	Tagln	transgelin	-2.01	8.06E-06
A_43_P11489	S100a4	S100 calcium-binding protein A4	-2.04	3.85E-02
A_64_P117363			-2.04	8.09E-03
A_64_P068353	Mki67	antigen identified by monoclonal antibody Ki-67	-2.06	2.08E-03
A_64_P104009	Rrm2	ribonucleotide reductase M2	-2.08	1.87E-02
A_43_P12626	Msln	mesothelin	-2.09	5.95E-04
A_42_P818287	Nusap1	nucleolar and spindle associated protein 1	-2.10	8.19E-04
A_64_P095920	Ccl6	chemokine (C-C motif) ligand 6	-2.12	1.92E-03
A_43_P16707	Ccl6	chemokine (C-C motif) ligand 6	-2.12	1.35E-03
A_64_P163822	Cks2	CDC28 protein kinase regulatory subunit 2	-2.12	8.06E-03
A_64_P036925	Cp	ceruloplasmin (ferroxidase)	-2.14	1.26E-03
A_64_P147868	RGD1563581	similar to S100 calcium binding protein A11 (calizzarin)	-2.15	7.23E-04
A_64_P147871	S100a11	S100 calcium binding protein A11	-2.17	7.21E-04
A_64_P048183	Ckap2	cytoskeleton associated protein 2	-2.18	1.85E-02
A_44_P1032296	Capg	capping protein (actin filament), gelsolin-like	-2.18	1.97E-02
A_64_P001740	Ccna2	cyclin A2	-2.18	1.41E-02
A_44_P1042711	Kif20a	kinesin family member 20A	-2.18	2.12E-03
A_64_P163919	Mki67	antigen identified by monoclonal antibody Ki-67	-2.20	4.98E-04
A_43_P11142	S100a11	S100 calcium binding protein A11	-2.21	5.30E-04
A_64_P147373	Gja5	gap junction protein, alpha 5	-2.25	1.69E-05
A_64_P098921	Cdca3	cell division cycle associated 3	-2.28	1.51E-02
A_64_P001741	Ccna2	cyclin A2	-2.33	5.43E-03
A_64_P045922	Clec12a	C-type lectin domain family 12, member A	-2.34	6.28E-03
A_43_P12698	Lgals3	lectin, galactoside-binding, soluble, 3	-2.36	3.71E-02
A_64_P038107	Apobec1	apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1	-2.41	9.81E-04
A_42_P580844	Cdk1	cyclin-dependent kinase 1	-2.43	3.19E-03
A_64_P158653	Knstrn	kinetochore-localized astrin/SPAG5 binding protein	-2.51	6.48E-03
A_44_P461154	Timp1	TIMP metalloproteinase inhibitor 1	-2.88	1.13E-03
A_64_P078332	Glycam1	glycosylation dependent cell adhesion molecule 1	-2.96	1.73E-02

<sup>a</sup> Probe ID of Agilent rat mRNA microarray chip (SurePrint G3 Rat Gene Expression 8x60k, Agilent Inc., CA, USA)

Abbreviation: FD, fold difference