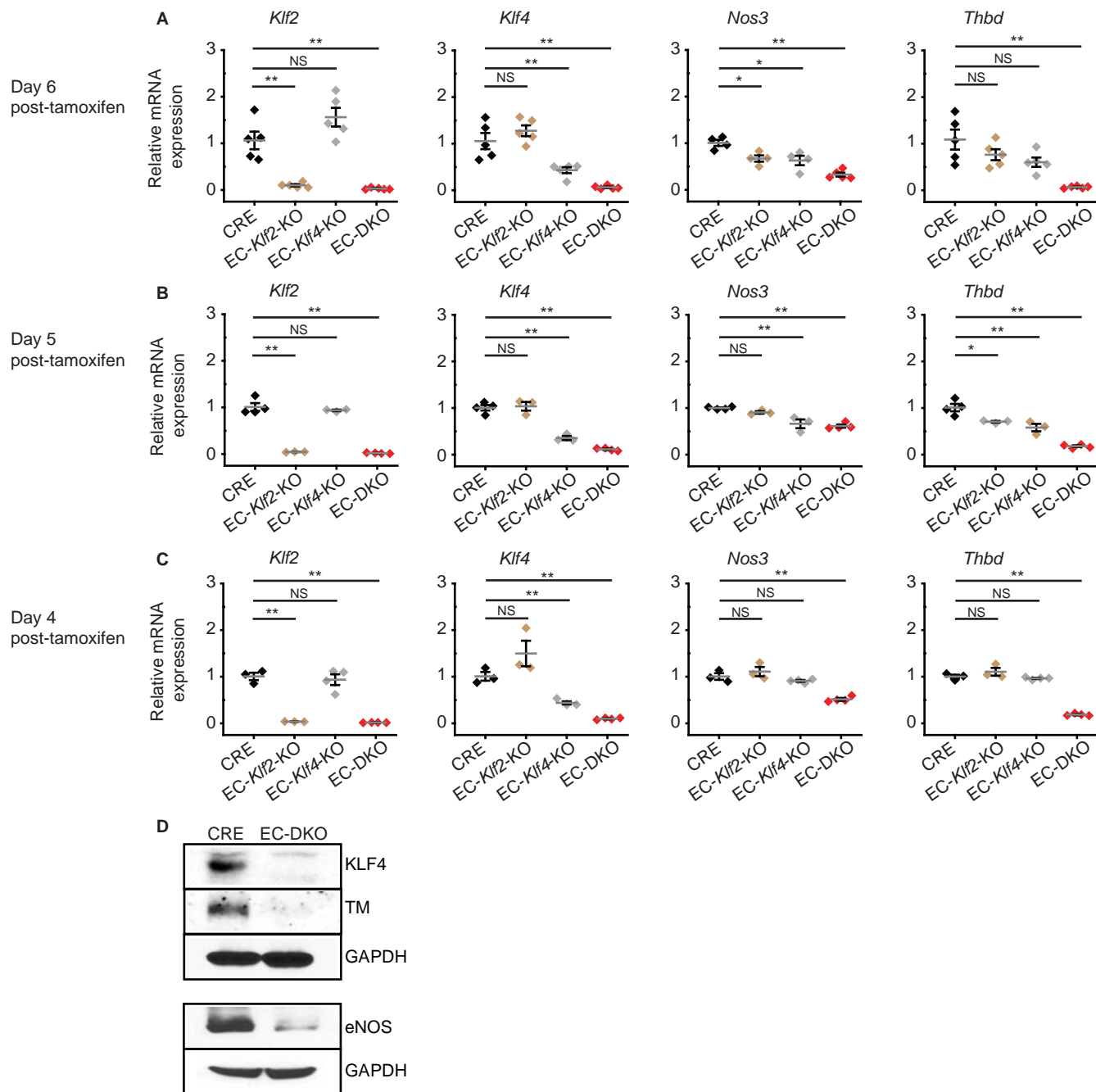


KLF2 and KLF4 control endothelial identity and vascular integrity

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Supplemental Figures and Tables

Supplemental Figure 1



Supplemental Figure 1. Expression of *Klf2*, *Klf4*, and their targets in primary cardiac microvascular EC.

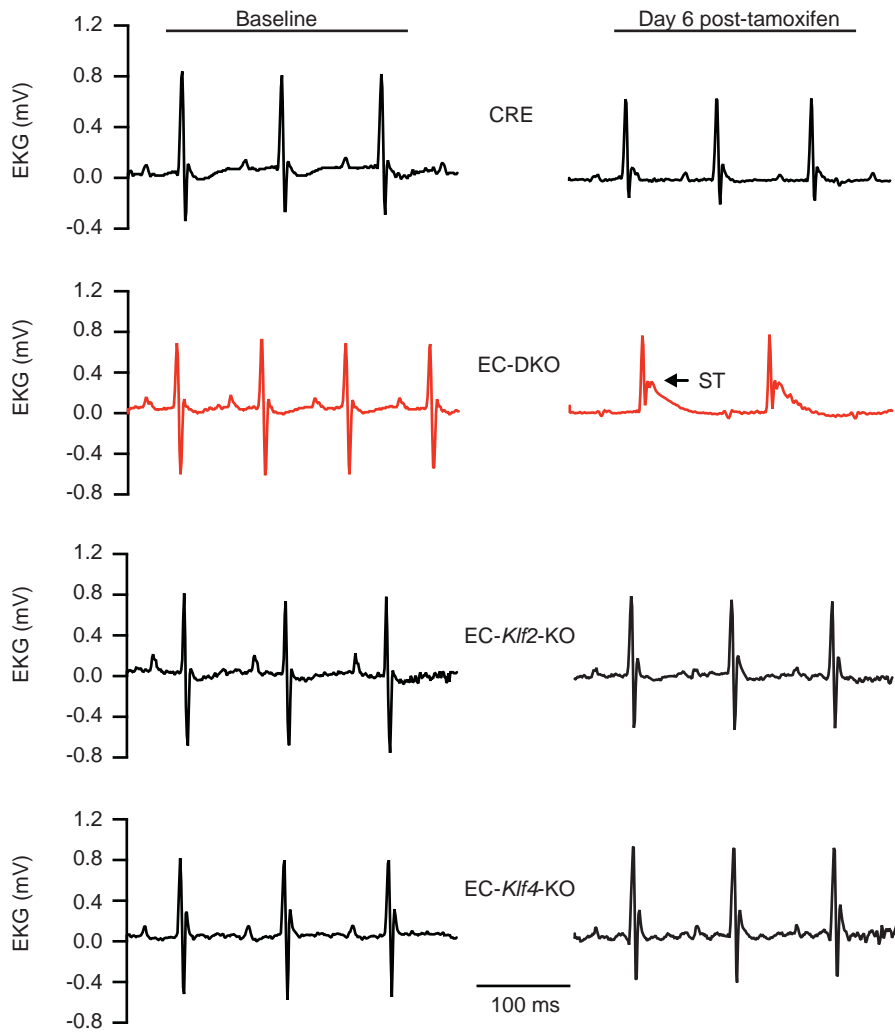
Relative mRNA expression levels of *Klf2* (Kruppel-like family of transcription factor 2), *Klf4*, *Nos3* (endothelial nitric oxide synthase), and *Thbd* (thrombomodulin) in primary cardiac microvascular EC isolated from mice at day 6 (A), day 5 (B), and day 4 (C) following tamoxifen (n=3-5 per genotype, each sample was pooled from 2 mice).

(D) Representative western blot of primary cardiac microvascular EC using antibodies against KLF4, eNOS (endothelial nitric oxide synthase), TM (thrombomodulin), and GAPDH

(endogenous glyceraldehyde 3-phosphate dehydrogenase). CRE: Cdh5(PAC)-Ert2cre, EC-DKO: EC-specific *Klf2* and *Klf4* double knockout, EC-*Klf2*-KO: EC-specific *Klf2* knockout, EC-*Klf4*-KO: EC-specific *Klf4* knockout. Sample in each group was pooled from 7-8 mice.

*: P < 0.05, **: P < 0.01, NS: Not significant. One-way ANOVA with Bonferroni's post hoc test.

Supplemental Figure 2



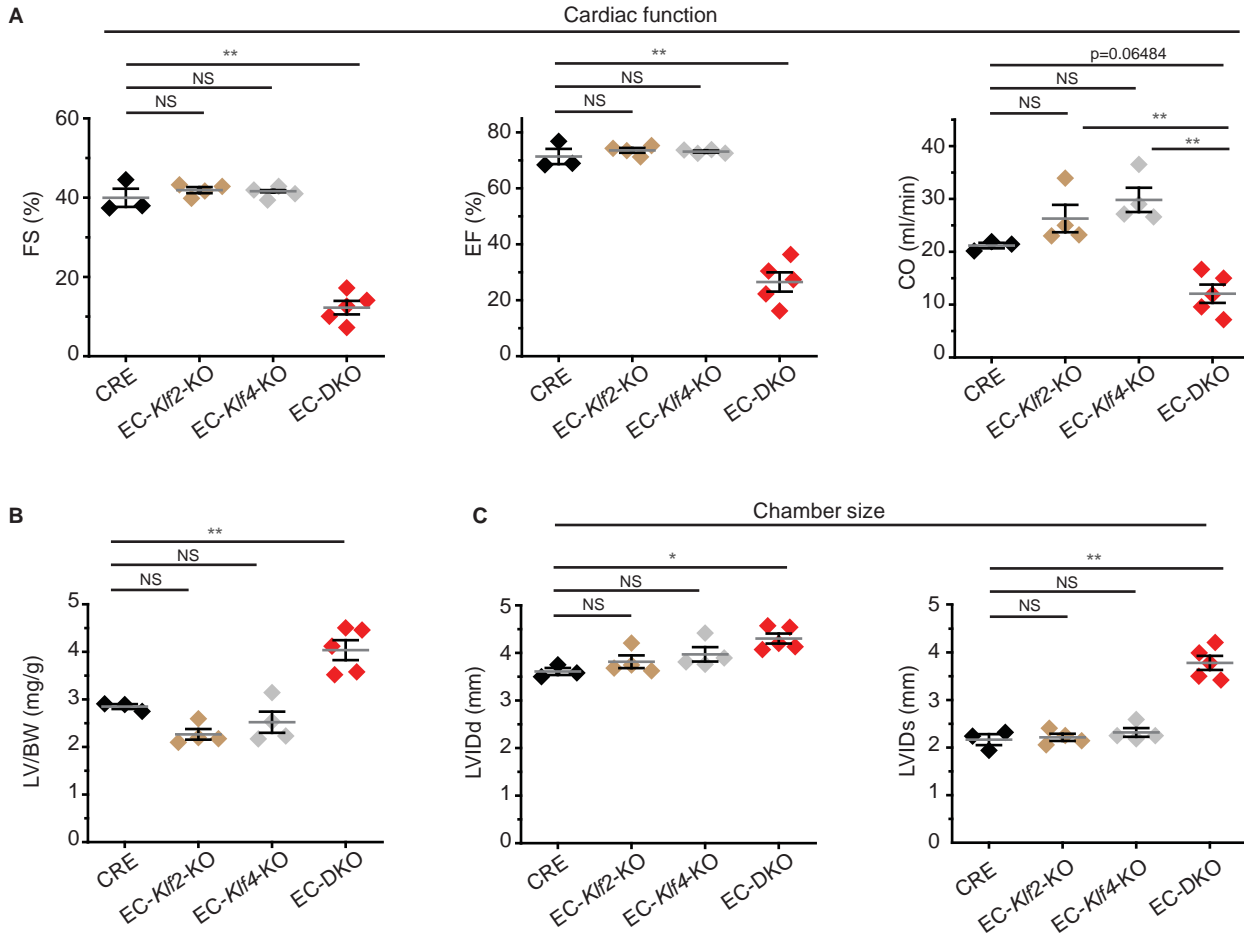
Supplemental Figure 2. Electrocardiogram (EKG) recording.

Representative EKG of CRE, EC-DKO, EC-*Klf2*-KO, and EC-*Klf4*-KO mice at baseline without tamoxifen (left) and day 6 post-tamoxifen injection (right). n=4-5 per genotype.

CRE: *Cdh5*(PAC)-*Ert2*cre, EC-DKO: EC-specific *Klf2* and *Klf4* double knockout,

EC-*Klf2*-KO: EC-specific *Klf2* knockout, EC-*Klf4*-KO: EC-specific *Klf4* knockout.

Supplemental Figure 3



Supplemental Figure 3. Echocardiographic analysis at day 6 after tamoxifen administration.

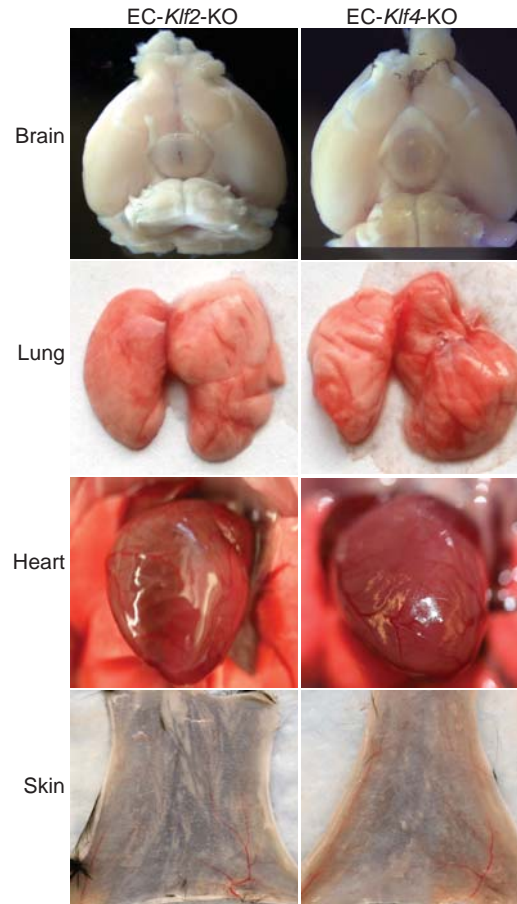
(A) Fractional shortening (FS), ejection fraction (EF), and cardiac output (CO) in CRE (n=3), EC-*Klf2*-KO (4), EC-*Klf4*-KO (n=4), and EC-DKO mice (n=5).

(B) Left ventricle (LV)-to-body weight (BW) ratio. (C) LV internal dimension at end diastole (LVIDd), and at end systole (LVIDs). CRE: *Cdh5*(PAC)-*Ert2cre*,

EC-DKO: EC-specific *Klf2* and *Klf4* double knockout, EC-*Klf2*-KO: EC-specific *Klf2* knockout, EC-*Klf4*-KO: EC-specific *Klf4* knockout. Data are presented as mean \pm SEM.

*: $P < 0.05$, **: $P < 0.01$. NS: Not significant. One-way ANOVA with Bonferroni's post hoc test.

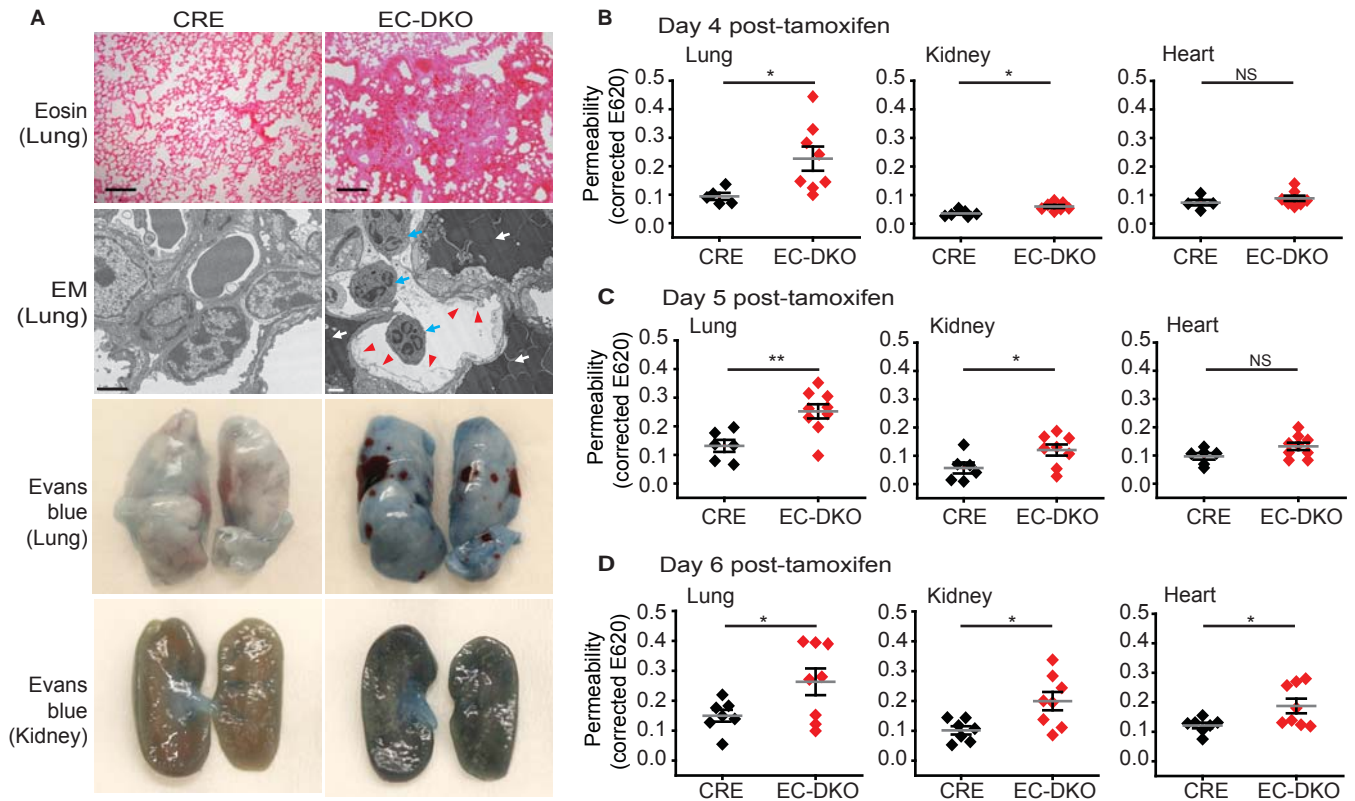
Supplemental Figure 4



Supplemental Figure 4. Gross post-mortem examination in EC-*Klf2*-KO and EC-*Klf4*-KO mice.

Representative gross anatomy pictures of brain, lungs, heart, and subcutaneous tissues from EC-*Klf2*-KO (EC-specific *Klf2* knockout) and EC-*Klf4*-KO (EC-specific *Klf4* knockout) mice at day 6 post-tamoxifen (n=3-4 per genotype).

Supplemental Figure 5



Supplemental Figure 5. Endothelial-specific deletion of *Klf2* and *Klf4* results in vascular leak.

(A, top) Representative pictures of lung Eosin staining show erythrocyte leakage (white arrow) in extravascular tissues at day 6 post-tamoxifen. (n=3-4 per genotype). Scale bar is 200 μ m.

(A, middle) Representative electron microscopic (EM) images of lung indicate discontinuity of endothelial monolayer at day 6 post-tamoxifen (n=3-4 per genotype). Scale bar is 2 μ m.

Endothelial cells (EC): red arrowhead, extravascular erythrocytes: white arrow, leucocytes: blue arrow. (A, bottom) Representative pictures of Evans blue

vascular permeability assay for the lungs and kidneys at day 6 post-tamoxifen (n=7-8 per genotype).

(B-D) Quantification of extravasated Evans Blue dye in the lungs, kidneys, and heart at day 4

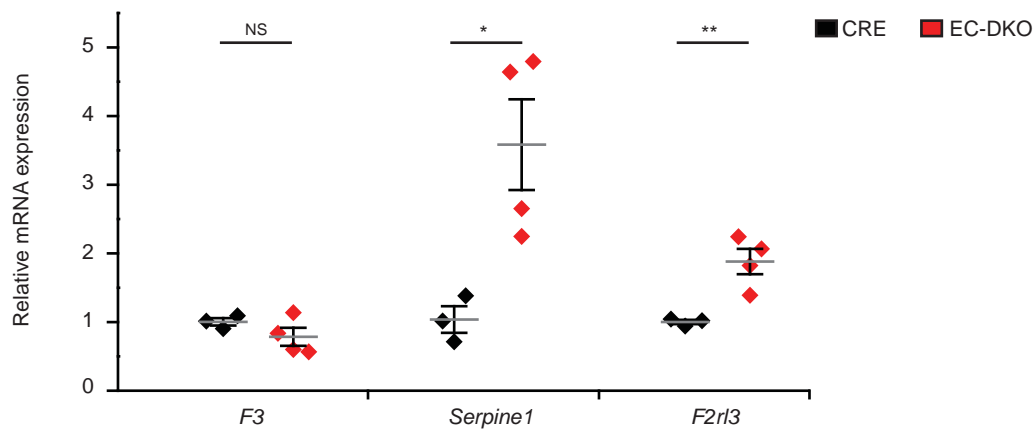
(B, n=6-8 per genotype), day 5 (C, n=6-9 per genotype), and day 6 (D, n=7-8 per genotype)

post-tamoxifen. CRE: *Cdh5*(PAC)-*Ert2cre*, EC-DKO: EC-specific *Klf2* and *Klf4* double knockout.

Data are presented as mean \pm SEM. *: $P < 0.05$, **: $P < 0.01$, NS: Not significant.

2-tailed Student's t test.

Supplemental Figure 6



Supplemental Figure 6. Expression of *F3*, *Serpine1*, and *F2r13* mRNA in primary cardiac

microvascular EC at day 6 post-tamoxifen. n=3-4 per genotype, each sample was pooled

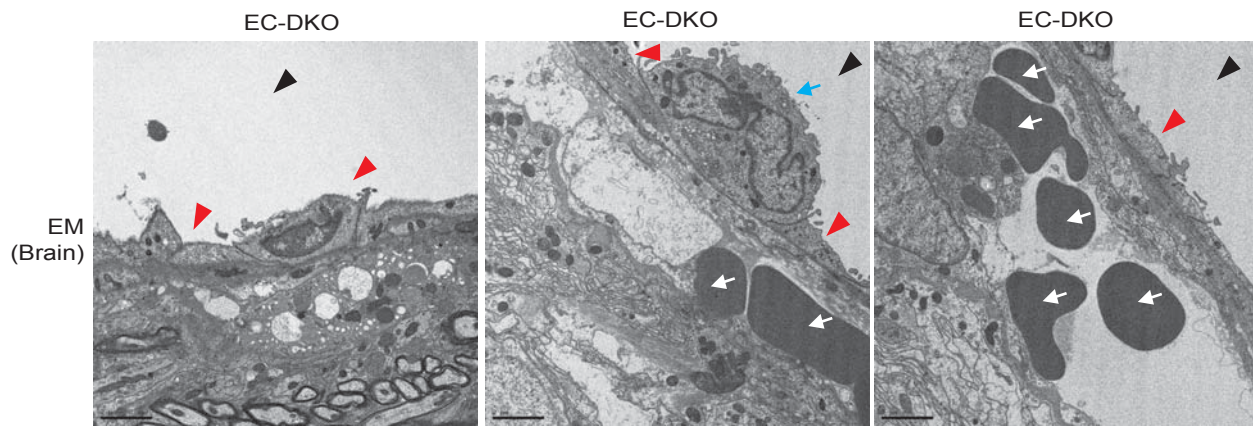
from 2 mice. *F3*: tissue factor, *Serpine1*: serine (or cysteine) peptidase inhibitor, clade E, member 1,

F2r13: coagulation factor II receptor-like 3, CRE: Cdh5(PAC)-Ert2cre,

EC-DKO: EC-specific *Klf2* and *Klf4* double knockout. *: $P < 0.05$, **: $P < 0.01$, NS: Not significant.

2-tailed Student's t test.

Supplemental Figure 7



Supplemental Figure 7. Representative electron microscopic (EM) images of brain indicate degeneration of EC and extravascular erythrocytes in the EC-DKO mice at day 6 post-tamoxifen. Scale bar is 2 μ m. Endothelial cells (EC): red arrowhead, extravascular erythrocytes: white arrow, leucocytes: blue arrow, vessel lumen: black arrowhead (n=3-4 per genotype). EC-DKO: EC-specific *Klf2* and *Klf4* double knockout.

Supplemental Table 1. Differentially expressed genes (q<0.05) in cardiac microvascular EC obtained from EC-DKO in comparison to CRE mice at day 6 post-tamoxifen.

Ensembl_ID	Gene	Description	EC-DKOvsCRE.log2FC	EC-DKOvsCRE.RawP	EC-DKOvsCRE.FDR
ENSMUSG00000099397	Gm7809	predicted gene 7809	6.520828668	2.75E-181	7.75E-177
ENSMUSG00000051855	Mest	mesoderm specific transcript	3.334038311	2.80E-113	3.94E-109
ENSMUSG00000031886	Ces2e	carboxylesterase 2E	-3.950756039	2.80E-91	2.62E-87
ENSMUSG00000024743	Syt7	synaptotagmin VII	-3.222926334	1.53E-87	1.08E-83
ENSMUSG00000028766	Alpl	alkaline phosphatase, liver/bone/kidney	-3.05284643	1.51E-80	8.51E-77
ENSMUSG00000037010	Apln	apelin	2.944609555	2.96E-74	1.39E-70
ENSMUSG00000031628	Casp3	caspase 3	2.776995883	1.45E-68	5.82E-65
ENSMUSG00000028364	Tnc	tenascin C	5.209422965	6.36E-63	2.24E-59
ENSMUSG00000024501	Dpysl3	dihydropyrimidinase-like 3	2.381613989	7.96E-62	2.49E-58
ENSMUSG00000020151	Ptpr	protein tyrosine phosphatase, receptor type, R	-3.666146488	7.70E-61	2.17E-57
ENSMUSG00000053835	H2-T24	histocompatibility 2, T region locus 24	-2.626013971	1.35E-60	3.45E-57
ENSMUSG00000046186	Cd109	CD109 antigen	2.489258617	2.24E-60	5.24E-57
ENSMUSG00000094655	Gm25360	predicted gene, 25360	2.418946823	5.78E-55	1.25E-51
ENSMUSG00000074272	Ceacam1	carcinoembryonic antigen-related cell adhesion molecule 1	-2.384575452	2.51E-54	5.04E-51
ENSMUSG00000006014	Prg4	proteoglycan 4 (megakaryocyte stimulating factor, articular superficial zone protein)	-3.007843345	3.61E-53	6.77E-50
ENSMUSG00000026582	Sele	selectin, endothelial cell	2.217786815	3.05E-52	5.36E-49
ENSMUSG00000021822	Plau	plasminogen activator, urokinase	2.243213549	5.79E-49	9.58E-46
ENSMUSG00000001473	Tubb6	tubulin, beta 6 class V	3.218962042	1.16E-48	1.81E-45
ENSMUSG00000041552	Ptchd1	patched domain containing 1	4.126628073	7.48E-48	1.05E-44
ENSMUSG00000005124	Wisp1	WNT1 inducible signaling pathway protein 1	3.563401963	7.25E-48	1.05E-44
ENSMUSG00000031465	Angpt2	angiopoietin 2	2.149078948	7.67E-46	1.03E-42
ENSMUSG00000053062	Jam2	junction adhesion molecule 2	-2.085030593	1.05E-45	1.35E-42
ENSMUSG00000020053	Igf1	insulin-like growth factor 1	2.760058282	3.09E-43	3.64E-40
ENSMUSG00000024713	Pcsk5	proprotein convertase subtilisin/kexin type 5	-2.189660108	3.11E-43	3.64E-40
ENSMUSG00000018593	Sparc	secreted acidic cysteine rich glycoprotein	1.92362113	4.01E-43	4.51E-40
ENSMUSG00000019256	Ahr	aryl-hydrocarbon receptor	-2.303501855	1.55E-42	1.61E-39
ENSMUSG00000042476	Abcb4	ATP-binding cassette, sub-family B (MDR/TAP), member 4	-2.504773728	1.55E-42	1.61E-39
ENSMUSG00000005802	Slc30a4	solute carrier family 30 (zinc transporter), member 4	1.928168747	4.45E-42	4.47E-39
ENSMUSG00000071551	Akr1c19	aldo-keto reductase family 1, member C19	-2.599104159	6.11E-42	5.93E-39
ENSMUSG00000041695	Kcnj2	potassium inwardly-rectifying channel, subfamily J, member 2	2.032180501	6.54E-42	6.13E-39
ENSMUSG00000031618	Nr3c2	nuclear receptor subfamily 3, group C, member 2	-2.300686249	1.88E-41	1.70E-38
ENSMUSG00000025776	Crispld1	cysteine-rich secretory protein LCCL domain containing 1	-2.013055478	7.42E-41	6.53E-38
ENSMUSG00000029762	Akr1b8	aldo-keto reductase family 1, member B8	3.708386048	7.69E-41	6.55E-38
ENSMUSG00000040441	Slc26a10	solute carrier family 26, member 10	-4.420325141	1.37E-40	1.13E-37
ENSMUSG00000061119	Prpc	prolylcarboxypeptidase (angiotensinase C)	1.889734252	2.80E-40	2.18E-37
ENSMUSG00000020032	Nuak1	NUAK family, SNF1-like kinase, 1	-1.999707955	2.74E-40	2.18E-37
ENSMUSG00000050493	Fam167b	family with sequence similarity 167, member B	2.594945861	1.27E-39	9.69E-37
ENSMUSG00000036960	Cicac5	chloride channel calcium activated 5	2.806423608	1.82E-39	1.35E-36
ENSMUSG000000097462	9530026P05Rik	RIKEN cDNA 9530026P05 gene	-2.762281561	1.99E-39	1.44E-36
ENSMUSG00000026728	Vim	vimentin	2.077841529	4.15E-39	2.92E-36
ENSMUSG00000044921	Rassf9	Ras association (RalGDS/AF-6) domain family (N-terminal) member 9	-1.959561971	1.26E-38	8.68E-36
ENSMUSG00000079523	Tmsb10	thymosin, beta 10	2.011754374	1.70E-38	1.14E-35
ENSMUSG00000052698	Tln2	talin 2	-2.522386943	2.21E-38	1.44E-35
ENSMUSG00000021097	Clmn	calmin	-3.148244374	3.46E-38	2.21E-35
ENSMUSG00000043091	Tuba1c	tubulin, alpha 1C	2.165151474	5.86E-37	3.66E-34
ENSMUSG00000035407	Kank4	KN motif and ankyrin repeat domains 4	-2.67702772	1.08E-36	6.59E-34
ENSMUSG00000053626	Tll1	tolloid-like	2.151936535	3.08E-36	1.85E-33
ENSMUSG00000020900	Myh10	myosin, heavy polypeptide 10, non-muscle	1.776787331	7.56E-36	4.43E-33
ENSMUSG00000031877	Ces2g	carboxylesterase 2G	-2.775595051	9.62E-36	5.52E-33
ENSMUSG00000030346	Rad51ap1	RAD51 associated protein 1	2.257281412	1.94E-35	1.09E-32
ENSMUSG00000020334	Slc22a4	solute carrier family 22 (organic cation transporter), member 4	2.772433778	3.15E-34	1.74E-31
ENSMUSG00000001520	Nrip2	nuclear receptor interacting protein 2	-2.038716322	5.97E-34	3.23E-31
ENSMUSG00000020836	Coro6	coronin 6	-2.923797201	6.15E-34	3.27E-31
ENSMUSG00000041479	Syt15	synaptotagmin XV	-2.07404787	9.40E-34	4.81E-31
ENSMUSG00000044365	Cxxc4	CXXC finger 4	-2.456482369	9.29E-34	4.81E-31
ENSMUSG00000001864	Aif1	allograft inflammatory factor 1-like	-2.291627184	1.06E-33	5.33E-31
ENSMUSG00000038624	Nepn	nephrocan	-2.480717724	3.14E-33	1.55E-30
ENSMUSG00000052727	Map1b	microtubule-associated protein 1B	1.687317354	1.75E-32	8.51E-30
ENSMUSG00000053702	Nebi	nebulette	-2.157825893	3.90E-32	1.86E-29
ENSMUSG00000017754	Pltp	phospholipid transfer protein	-3.327481578	4.55E-32	2.13E-29
ENSMUSG00000062329	Cyt11	cytokine-like 1	-3.918019303	6.10E-32	2.81E-29
ENSMUSG00000027452	Acss1	acyl-CoA synthetase short-chain family member 1	-1.91703058	7.53E-32	3.42E-29
ENSMUSG00000022337	Ankrd33b	ankyrin repeat domain 33B	-1.849551634	8.13E-32	3.63E-29
ENSMUSG00000022351	Sqle	squalene epoxidase	2.27332581	9.29E-32	4.09E-29
ENSMUSG00000018486	Wnt9b	wingless-type MMTV integration site family, member 9B	-3.149429279	4.62E-31	2.00E-28
ENSMUSG00000081769	Gm12216	predicted gene 12216	-2.463866552	8.52E-31	3.63E-28
ENSMUSG00000030237	Slc1a4	solute carrier organic anion transporter family, member 1a4	-2.861968514	2.55E-30	1.07E-27
ENSMUSG00000058145	Adamts17	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 17	2.289571188	4.58E-30	1.90E-27
ENSMUSG00000040265	Dnm3	dynammin 3	-1.827681594	4.92E-30	2.01E-27
ENSMUSG00000035914	Cd276	CD276 antigen	2.075804058	5.35E-30	2.15E-27
ENSMUSG00000031147	Magix	MAGI family member, X-linked	-1.808328652	5.67E-30	2.25E-27

ENSMUSG00000021708	Rasgrf2	RAS protein-specific guanine nucleotide-releasing factor 2	-1.724668979	5.76E-30	2.25E-27
ENSMUSG00000040543	Pitpnm3	PITPNM family member 3	-2.294183731	7.34E-30	2.83E-27
ENSMUSG000000097415	AU020206	expressed sequence AU020206	-2.069326675	1.12E-29	4.27E-27
ENSMUSG00000079363	Gbp4	guanylate binding protein 4	-1.821921334	1.33E-29	4.99E-27
ENSMUSG00000020674	Pxdn	peroxidasin homolog (Drosophila)	1.575896005	1.48E-29	5.47E-27
ENSMUSG00000033207	Mamdc2	MAM domain containing 2	-1.917584878	1.76E-29	6.43E-27
ENSMUSG00000027500	Stmn2	stathmin-like 2	-2.065848635	2.34E-29	8.45E-27
ENSMUSG00000063568	Jazf1	JAZF zinc finger 1	1.981822487	2.82E-29	1.00E-26
ENSMUSG00000027219	Slc28a2	solute carrier family 28 (sodium-coupled nucleoside transporter), member 2	-1.619454454	2.88E-29	1.01E-26
ENSMUSG00000074743	Thbd	thrombomodulin	-1.987964929	4.29E-29	1.49E-26
ENSMUSG00000042712	Wbp5	WW domain binding protein 5	1.705124777	4.49E-29	1.54E-26
ENSMUSG00000079654	Prrt4	proline-rich transmembrane protein 4	-3.498632263	6.01E-29	2.04E-26
ENSMUSG00000022696	Sid1	SID1 transmembrane family, member 1	-2.759781617	1.07E-28	3.60E-26
ENSMUSG00000022340	Sybu	syntabulin (syntaxin-interacting)	-1.611929817	1.17E-28	3.88E-26
ENSMUSG00000021186	Fbln5	fibulin 5	-1.694937518	1.20E-28	3.94E-26
ENSMUSG00000027490	E2f1	E2F transcription factor 1	2.3580801	1.49E-28	4.83E-26
ENSMUSG00000030494	Rhpn2	rhophilin, Rho GTPase binding protein 2	-2.333936832	1.55E-28	4.95E-26
ENSMUSG00000037664	Cdkn1c	cyclin-dependent kinase inhibitor 1C (P57)	-2.197591588	1.71E-28	5.42E-26
ENSMUSG00000049929	Lpar4	lysophosphatidic acid receptor 4	1.891465744	1.82E-28	5.69E-26
ENSMUSG00000027907	S100a11	S100 calcium binding protein A11 (calgizarin)	1.843720125	2.01E-28	6.21E-26
ENSMUSG00000022500	Litaf	LPS-induced TN factor	1.554110059	2.12E-28	6.48E-26
ENSMUSG00000032908	Sgpp2	sphingosine-1-phosphate phosphatase 2	-4.55331007	4.33E-28	1.31E-25
ENSMUSG00000030306	Tmtc1	transmembrane and tetra-tryptophan repeat containing 1	-1.951610773	5.70E-28	1.71E-25
ENSMUSG00000046480	Scn4b	sodium channel, type IV, beta	-2.095217853	7.50E-28	2.22E-25
ENSMUSG00000014773	Dll1	delta-like 1 (Drosophila)	-1.768669876	7.71E-28	2.26E-25
ENSMUSG00000048612	Myof	myoferlin	1.64005983	8.41E-28	2.44E-25
ENSMUSG00000048120	Entpd1	ectonucleoside triphosphate diphosphohydrolase 1	-1.61420655	1.67E-27	4.79E-25
ENSMUSG00000039891	Txinb	taxilin beta	-2.371865984	1.74E-27	4.94E-25
ENSMUSG00000022816	Fstl1	folliculin-like 1	1.512494543	1.96E-27	5.50E-25
ENSMUSG00000001334	Fndc5	fibronectin type III domain containing 5	-2.251049397	3.11E-27	8.68E-25
ENSMUSG00000070576	Mn1	meningioma 1	-1.890142661	4.13E-27	1.14E-24
ENSMUSG00000029086	Prom1	prominin 1	-2.369462387	6.10E-27	1.67E-24
ENSMUSG00000047881	Rel1	RELT-like 1	1.530855411	7.02E-27	1.90E-24
ENSMUSG00000024659	Anxa1	annexin A1	1.54903684	7.43E-27	1.99E-24
ENSMUSG00000005397	Nid1	nidogen 1	1.485870592	1.60E-26	4.26E-24
ENSMUSG00000034936	Arl4d	ADP-ribosylation factor-like 4D	-2.252414691	2.24E-26	5.88E-24
ENSMUSG00000039683	Sdk1	sidekick homolog 1 (chicken)	2.584853854	2.26E-26	5.89E-24
ENSMUSG00000042010	Acacb	acetyl-Coenzyme A carboxylase beta	-2.208708187	2.46E-26	6.35E-24
ENSMUSG00000086605	Gm14290	predicted gene 14290	-2.042304533	2.71E-26	6.94E-24
ENSMUSG00000025608	Podxl	podocalyxin-like	-1.494259063	5.47E-26	1.39E-23
ENSMUSG00000017724	Etv4	ets variant 4	2.904161944	8.35E-26	2.10E-23
ENSMUSG00000045349	Sh2d5	SH2 domain containing 5	6.054009744	1.12E-25	2.78E-23
ENSMUSG00000030607	Acan	aggrecan	2.215317754	1.59E-25	3.93E-23
ENSMUSG00000018965	Ywhah	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide	1.515360909	1.89E-25	4.63E-23
ENSMUSG00000040035	Disp2	dispatched homolog 2 (Drosophila)	5.462162267	2.09E-25	5.07E-23
ENSMUSG00000031351	Zfp185	zinc finger protein 185	1.856766661	2.26E-25	5.43E-23
ENSMUSG00000044201	Cdc25c	cell division cycle 25C	3.290461675	2.53E-25	6.03E-23
ENSMUSG00000027555	Car13	carbonic anhydrase 13	2.284060251	3.53E-25	8.36E-23
ENSMUSG00000045934	Mtmr11	myotubularin related protein 11	1.546469789	9.62E-25	2.25E-22
ENSMUSG00000032218	Ccnb2	cyclin B2	2.875788349	1.08E-24	2.52E-22
ENSMUSG00000003746	Man1a	mannosidase 1, alpha	1.689830063	1.55E-24	3.56E-22
ENSMUSG00000054619	Mettl7a1	methyltransferase like 7A1	-1.723359971	1.77E-24	4.06E-22
ENSMUSG00000052423	B4galt3	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 3	1.653443948	1.91E-24	4.34E-22
ENSMUSG00000030096	Slc6a6	solute carrier family 6 (neurotransmitter transporter, taurine), member 6	-1.698968994	3.46E-24	7.79E-22
ENSMUSG00000062070	Pgk1	phosphoglycerate kinase 1	2.070435456	3.52E-24	7.86E-22
ENSMUSG00000005672	Kit	kit oncogene	2.337656942	3.59E-24	7.95E-22
ENSMUSG00000043065	Spice1	spindle and centriole associated protein 1	-1.4709133	4.61E-24	1.01E-21
ENSMUSG00000027358	Bmp2	bone morphogenetic protein 2	1.823824517	6.53E-24	1.42E-21
ENSMUSG00000036109	Mbnl3	muscleblind-like 3 (Drosophila)	2.107447817	7.95E-24	1.72E-21
ENSMUSG00000004187	Kifc2	kinesin family member C2	-2.212615624	1.05E-23	2.24E-21
ENSMUSG00000040998	Npnt	nephronectin	2.239588003	1.08E-23	2.30E-21
ENSMUSG00000028132	Tmem56	transmembrane protein 56	2.036310989	1.30E-23	2.75E-21
ENSMUSG00000007097	Atp1a2	ATPase, Na ⁺ /K ⁺ transporting, alpha 2 polypeptide	-1.580551576	1.31E-23	2.75E-21
ENSMUSG00000002900	Lamb1	laminin B1	1.610588117	1.44E-23	3.01E-21
ENSMUSG00000066026	Dhrs3	dehydrogenase/reductase (SDR family) member 3	-1.584085735	1.55E-23	3.20E-21
ENSMUSG00000028116	Myoz2	myozenin 2	-1.708210983	1.69E-23	3.48E-21
ENSMUSG00000032966	Fkbp1a	FK506 binding protein 1a	1.42827678	1.98E-23	4.04E-21
ENSMUSG00000049265	Kcnk3	potassium channel, subfamily K, member 3	-2.15422479	2.15E-23	4.35E-21
ENSMUSG00000058806	Col13a1	collagen, type XIII, alpha 1	-3.000122395	2.48E-23	4.98E-21
ENSMUSG00000073758	Sh3d21	SH3 domain containing 21	-1.784569892	2.50E-23	4.99E-21
ENSMUSG00000032028	Nxpe2	neurexophilin and PC-esterase domain family, member 2	-1.54136058	2.63E-23	5.22E-21
ENSMUSG00000057286	St6galnac2	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 2	-1.65417436	2.90E-23	5.71E-21
ENSMUSG00000034245	Hdac11	histone deacetylase 11	-2.068204438	4.33E-23	8.46E-21

ENSMUSG00000040711	Sh3pxd2b	SH3 and PX domains 2B	2.626373761	4.37E-23	8.48E-21
ENSMUSG00000085125	Gm16070	predicted gene 16070	-2.285303681	5.14E-23	9.90E-21
ENSMUSG00000059408	Mrgprh	MAS-related GPR, member H	-2.652067689	5.20E-23	9.95E-21
ENSMUSG00000031422	Morf4l2	mortality factor 4 like 2	1.429546461	7.47E-23	1.42E-20
ENSMUSG00000066113	Adamts1	ADAMTS-like 1	-2.121675155	8.08E-23	1.53E-20
ENSMUSG00000020072	Pbid1	phenazine biosynthesis-like protein domain containing 1	-2.743995967	8.79E-23	1.65E-20
ENSMUSG00000027339	Rassf2	Ras association (RalGDS/AF-6) domain family member 2	1.794454069	9.05E-23	1.69E-20
ENSMUSG00000048279	Sacs	sacsin	1.607992948	1.19E-22	2.19E-20
ENSMUSG00000027435	Cd93	CD93 antigen	1.369295626	1.74E-22	3.19E-20
ENSMUSG00000061171	Slc38a11	solute carrier family 38, member 11	-1.619992767	2.46E-22	4.50E-20
ENSMUSG00000040264	Gbp5	guanylate binding protein 5	-1.356840525	2.70E-22	4.90E-20
ENSMUSG00000023068	Nus1	nuclear undecaprenyl pyrophosphate synthase 1 homolog (S. cerevisiae)	1.377106565	3.29E-22	5.93E-20
ENSMUSG00000041219	Arhgap11a	Rho GTPase activating protein 11A	2.418115096	3.72E-22	6.67E-20
ENSMUSG00000062421	Arf2	ADP-ribosylation factor 2	1.916984464	3.88E-22	6.91E-20
ENSMUSG00000028525	Pde4b	phosphodiesterase 4B, cAMP specific	1.49940161	4.00E-22	7.08E-20
ENSMUSG00000031520	Vegfc	vascular endothelial growth factor C	-1.360815928	5.47E-22	9.62E-20
ENSMUSG00000017756	Slc12a7	solute carrier family 12, member 7	-1.425785047	7.85E-22	1.37E-19
ENSMUSG00000031146	Plp2	proteolipid protein 2	1.739242778	9.34E-22	1.62E-19
ENSMUSG00000019890	Nts	neurotensin	2.284310955	1.18E-21	2.04E-19
ENSMUSG00000025213	Kazald1	Kazal-type serine peptidase inhibitor domain 1	-2.332300276	1.28E-21	2.19E-19
ENSMUSG00000050931	Sgms2	sphingomyelin synthase 2	2.462711663	1.39E-21	2.37E-19
ENSMUSG00000034258	Mfsd7c	major facilitator superfamily domain containing 7C	-2.689738007	2.15E-21	3.65E-19
ENSMUSG00000079685	Ulbp1	UL16 binding protein 1	2.089863737	2.73E-21	4.59E-19
ENSMUSG00000040511	Pvr	poliovirus receptor	1.34082449	3.46E-21	5.80E-19
ENSMUSG00000026170	Cyp27a1	cytochrome P450, family 27, subfamily a, polypeptide 1	-2.098105815	3.48E-21	5.80E-19
ENSMUSG00000079037	Pmp	prion protein	1.515416867	4.29E-21	7.11E-19
ENSMUSG00000032648	Pygm	muscle glycogen phosphorylase	-1.475685437	6.41E-21	1.05E-18
ENSMUSG00000020458	Rtn4	reticulon 4	1.330003397	7.33E-21	1.20E-18
ENSMUSG00000020089	Ppa1	pyrophosphatase (inorganic) 1	1.529617723	7.87E-21	1.28E-18
ENSMUSG00000030867	Plk1	polo-like kinase 1	2.739800487	8.57E-21	1.39E-18
ENSMUSG00000015533	Itga2	integrin alpha 2	2.426126163	9.20E-21	1.48E-18
ENSMUSG00000036885	Arhgef26	Rho guanine nucleotide exchange factor (GEF) 26	1.411765967	9.90E-21	1.58E-18
ENSMUSG00000027221	Chst1	carbohydrate (keratan sulfate Gal-6) sulfotransferase 1	1.634258658	1.83E-20	2.91E-18
ENSMUSG00000033906	Zdnhc15	zinc finger, DHHC domain containing 15	1.658574166	2.16E-20	3.41E-18
ENSMUSG00000069893	9930111J21Rik1	RIKEN cDNA 9930111J21 gene 1	-1.51572141	2.17E-20	3.41E-18
ENSMUSG00000053963	6330403A02Rik	RIKEN cDNA 6330403A02 gene	-1.930761249	2.28E-20	3.57E-18
ENSMUSG00000020811	Wscd1	WSC domain containing 1	-1.77896302	2.71E-20	4.21E-18
ENSMUSG00000046841	Ckap4	cytoskeleton-associated protein 4	1.37142577	3.23E-20	5.00E-18
ENSMUSG00000028044	Cks1b	CDC28 protein kinase 1b	2.597751836	4.12E-20	6.33E-18
ENSMUSG00000052565	Hist1h1d	histone cluster 1, H1d	2.131253939	4.17E-20	6.38E-18
ENSMUSG00000010830	Kdelr3	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3	1.884255984	4.21E-20	6.40E-18
ENSMUSG00000052516	Robo2	roundabout homolog 2 (Drosophila)	-2.051365609	5.03E-20	7.62E-18
ENSMUSG00000068220	Lgals1	lectin, galactose binding, soluble 1	2.675747554	7.04E-20	1.06E-17
ENSMUSG00000025666	Tmem47	transmembrane protein 47	1.302822915	7.66E-20	1.15E-17
ENSMUSG00000019920	Lims1	LIM and senescent cell antigen-like domains 1	1.279260434	7.76E-20	1.15E-17
ENSMUSG00000035165	Kcne3	potassium voltage-gated channel, Isk-related subfamily, gene 3	1.849715792	8.01E-20	1.19E-17
ENSMUSG00000050147	F2r13	coagulation factor II (thrombin) receptor-like 3	1.796610735	8.42E-20	1.24E-17
ENSMUSG00000022197	Pdzd2	PDZ domain containing 2	-1.293652913	9.77E-20	1.43E-17
ENSMUSG00000044037	Als2cl	ALS2 C-terminal like	-2.259393106	1.04E-19	1.52E-17
ENSMUSG00000025175	Fn3k	fructosamine 3 kinase	-3.009145421	1.08E-19	1.57E-17
ENSMUSG00000037313	Tacc3	transforming, acidic coiled-coil containing protein 3	2.322319871	1.25E-19	1.81E-17
ENSMUSG00000024538	Ppic	peptidylprolyl isomerase C	1.28949459	1.47E-19	2.10E-17
ENSMUSG00000053647	Gper1	G protein-coupled estrogen receptor 1	-2.232954036	1.47E-19	2.10E-17
ENSMUSG00000021280	Exoc3l4	exocyst complex component 3-like 4	2.08914097	1.64E-19	2.32E-17
ENSMUSG00000032135	Mcam	melanoma cell adhesion molecule	1.253242113	1.72E-19	2.44E-17
ENSMUSG00000027796	Smad9	SMAD family member 9	-2.613918905	1.91E-19	2.69E-17
ENSMUSG00000022385	Gtse1	G two S phase expressed protein 1	2.063600569	1.97E-19	2.76E-17
ENSMUSG00000018293	Pfn1	profilin 1	1.28467999	2.01E-19	2.80E-17
ENSMUSG00000026646	Suv39h2	suppressor of variegation 3-9 homolog 2 (Drosophila)	2.618450868	2.09E-19	2.88E-17
ENSMUSG00000036412	Arsi	arylsulfatase i	2.154730672	2.08E-19	2.88E-17
ENSMUSG00000033361	Prrg3	proline rich Gla (G-carboxyglutamic acid) 3 (transmembrane)	1.33117846	2.34E-19	3.22E-17
ENSMUSG00000031216	Stard8	START domain containing 8	-1.346732235	2.52E-19	3.44E-17
ENSMUSG00000021614	Vcan	versican	1.763421607	2.58E-19	3.51E-17
ENSMUSG00000000420	Galnt1	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetyl-galactosaminyltransferase 1	1.262467643	2.61E-19	3.53E-17
ENSMUSG00000064023	Klk8	kallikrein related-peptidase 8	-2.184932988	2.64E-19	3.55E-17
ENSMUSG00000047945	Marcks1	MARCKS-like 1	1.503372521	2.68E-19	3.59E-17
ENSMUSG00000029828	4921507P07Rik	RIKEN cDNA 4921507P07 gene	-2.468191686	2.95E-19	3.93E-17
ENSMUSG00000072640	Lym9	LYR motif containing 9	-1.732668916	3.20E-19	4.24E-17
ENSMUSG00000021806	Nid2	nidogen 2	1.40412806	3.32E-19	4.38E-17
ENSMUSG00000034987	Hrh2	histamine receptor H2	-1.902325013	3.53E-19	4.64E-17
ENSMUSG00000026421	Csrp1	cysteine and glycine-rich protein 1	1.241158903	3.64E-19	4.76E-17
ENSMUSG00000040722	Scamp5	secretory carrier membrane protein 5	1.454404211	4.65E-19	6.06E-17
ENSMUSG00000062300	Pvrl2	poliovirus receptor-related 2	1.899959821	4.86E-19	6.30E-17

ENSMUSG0000001403	Ube2c	ubiquitin-conjugating enzyme E2C	3.33288937	6.35E-19	8.19E-17
ENSMUSG00000032315	Cyp1a1	cytochrome P450, family 1, subfamily a, polypeptide 1	-6.205574581	6.57E-19	8.44E-17
ENSMUSG00000043004	Gng2	guanine nucleotide binding protein (G protein), gamma 2	1.495281493	7.10E-19	9.04E-17
ENSMUSG00000036095	Dgkb	diacylglycerol kinase, beta	-1.525129933	7.10E-19	9.04E-17
ENSMUSG00000078617	Ighm	immunoglobulin heavy constant mu	-1.615188447	9.13E-19	1.16E-16
ENSMUSG00000098132	Rassf10	Ras association (RalGDS/AF-6) domain family (N-terminal) member 10	-1.562612973	9.57E-19	1.21E-16
ENSMUSG00000036502	Tmem255a	transmembrane protein 255A	2.262502391	9.67E-19	1.21E-16
ENSMUSG00000028427	Aqp7	aquaporin 7	-1.30614299	1.04E-18	1.30E-16
ENSMUSG00000028599	Tnfrsf1b	tumor necrosis factor receptor superfamily, member 1b	-1.361891403	1.04E-18	1.30E-16
ENSMUSG00000027797	Dclk1	doublecortin-like kinase 1	2.004268897	1.24E-18	1.54E-16
ENSMUSG00000019951	Uhrf1bp1l	UHRF1 (ICBP90) binding protein 1-like	1.293939326	1.25E-18	1.54E-16
ENSMUSG00000045318	Adra2c	adrenergic receptor, alpha 2c	-4.122645331	1.25E-18	1.54E-16
ENSMUSG00000054889	Dsp	desmoplakin	-1.715540977	1.28E-18	1.57E-16
ENSMUSG00000070637	Gm694	predicted gene 694	-4.225986771	1.48E-18	1.80E-16
ENSMUSG00000035513	Ntng2	netrin G2	-2.156451337	1.49E-18	1.80E-16
ENSMUSG00000027883	Gpsm2	G-protein signalling modulator 2 (AGS3-like, C. elegans)	2.193504425	1.53E-18	1.85E-16
ENSMUSG00000020407	Upp1	uridine phosphorylase 1	1.388412473	1.65E-18	1.98E-16
ENSMUSG00000061353	Cxcl12	chemokine (C-X-C motif) ligand 12	-1.252315462	1.70E-18	2.04E-16
ENSMUSG00000018171	Vmp1	vacuole membrane protein 1	1.283650729	1.82E-18	2.17E-16
ENSMUSG00000047875	Gpr157	G protein-coupled receptor 157	-1.456095368	1.89E-18	2.24E-16
ENSMUSG00000062391	4932435O22Rik	RIKEN cDNA 4932435O22 gene	-3.058502485	1.90E-18	2.25E-16
ENSMUSG00000026235	Epha4	Eph receptor A4	-1.319090527	2.02E-18	2.38E-16
ENSMUSG00000028088	Fmo5	flavin containing monooxygenase 5	-1.463068006	2.18E-18	2.55E-16
ENSMUSG00000049555	Tmie	transmembrane inner ear	-2.895714158	2.18E-18	2.55E-16
ENSMUSG00000036158	Prickle1	prickle homolog 1 (Drosophila)	-1.425359871	2.30E-18	2.67E-16
ENSMUSG00000022661	Cd200	CD200 antigen	-1.243098688	2.57E-18	2.97E-16
ENSMUSG00000078922	Tgtp1	T cell specific GTPase 1	-1.438706461	2.58E-18	2.97E-16
ENSMUSG00000050508	Cd44	CD44 antigen	2.094093778	2.64E-18	3.03E-16
ENSMUSG00000038967	Pdk2	pyruvate dehydrogenase kinase, isoenzyme 2	-1.665928331	2.66E-18	3.05E-16
ENSMUSG00000032946	Rasgrp2	RAS, guanyl releasing protein 2	-1.365644408	2.95E-18	3.36E-16
ENSMUSG0000004891	Nes	nestin	1.226747061	3.07E-18	3.48E-16
ENSMUSG00000028965	Tnfrsf9	tumor necrosis factor receptor superfamily, member 9	5.404885912	3.09E-18	3.49E-16
ENSMUSG00000032327	Stra6	stimulated by retinoic acid gene 6	-4.292747034	3.47E-18	3.91E-16
ENSMUSG00000027611	Procr	protein C receptor, endothelial	1.715222689	3.54E-18	3.97E-16
ENSMUSG00000072620	Slnf2	schlafen 2	-1.336635367	3.66E-18	4.08E-16
ENSMUSG00000016349	Eef1a2	eukaryotic translation elongation factor 1 alpha 2	-1.954924773	3.90E-18	4.33E-16
ENSMUSG00000031883	Car7	carbonic anhydrase 7	-2.177723106	4.37E-18	4.84E-16
ENSMUSG00000025809	Itgb1	integrin beta 1 (fibronectin receptor beta)	1.210580305	4.48E-18	4.95E-16
ENSMUSG00000055994	Nod2	nucleotide-binding oligomerization domain containing 2	-1.82038554	4.60E-18	5.05E-16
ENSMUSG00000037972	Snn	stannin	1.26139267	5.01E-18	5.49E-16
ENSMUSG00000051341	Zfp52	zinc finger protein 52	1.475481333	5.68E-18	6.20E-16
ENSMUSG00000027858	Tspan2	tetraspanin 2	1.228508702	5.74E-18	6.23E-16
ENSMUSG00000035936	Aldh5a1	aldehyde dehydrogenase family 5, subfamily A1	-1.585434396	5.85E-18	6.33E-16
ENSMUSG00000016496	Cd274	CD274 antigen	-1.235904816	6.19E-18	6.67E-16
ENSMUSG00000019872	Smpdl3a	sphingomyelin phosphodiesterase, acid-like 3A	-1.269366349	6.56E-18	7.04E-16
ENSMUSG00000028249	Sdcbp	syndecan binding protein	1.198402802	6.88E-18	7.36E-16
ENSMUSG00000061603	Akap6	A kinase (PRKA) anchor protein 6	-1.68005186	7.55E-18	8.05E-16
ENSMUSG00000036672	Cenpt	centromere protein T	1.453275881	8.26E-18	8.77E-16
ENSMUSG00000032841	Prr5l	proline rich 5 like	1.732090636	8.32E-18	8.80E-16
ENSMUSG00000025856	Pdgfa	platelet derived growth factor, alpha	1.373769304	8.45E-18	8.87E-16
ENSMUSG00000026547	Tagln2	transgelin 2	1.204471129	8.44E-18	8.87E-16
ENSMUSG00000069267	Hist1h3b	histone cluster 1, H3b	2.531829009	9.09E-18	9.51E-16
ENSMUSG00000029767	Calu	calumenin	1.212276828	9.24E-18	9.63E-16
ENSMUSG00000021196	Pfkp	phosphofructokinase, platelet	1.253752208	9.29E-18	9.65E-16
ENSMUSG0000005952	Trpv1	transient receptor potential cation channel, subfamily V, member 1	-2.936624594	9.70E-18	1.00E-15
ENSMUSG00000050556	Kcnb1	potassium voltage gated channel, Shab-related subfamily, member 1	-2.056499155	1.01E-17	1.04E-15
ENSMUSG00000024660	Incenp	inner centromere protein	1.840076261	1.04E-17	1.07E-15
ENSMUSG00000040570	Rundc3b	RUN domain containing 3B	1.57198812	1.06E-17	1.08E-15
ENSMUSG00000073600	Prob1	proline rich basic protein 1	-1.861914057	1.06E-17	1.08E-15
ENSMUSG00000029095	Ablim2	actin-binding LIM protein 2	-2.7584523	1.20E-17	1.22E-15
ENSMUSG00000073557	Ppp1r12b	protein phosphatase 1, regulatory (inhibitor) subunit 12B	-1.352547368	1.47E-17	1.49E-15
ENSMUSG00000013936	Myl2	myosin, light polypeptide 2, regulatory, cardiac, slow	-1.630769241	1.63E-17	1.64E-15
ENSMUSG00000026749	Nek6	NIMA (never in mitosis gene a)-related expressed kinase 6	1.815884033	1.89E-17	1.90E-15
ENSMUSG00000041794	Myrip	myosin VIIA and Rab interacting protein	-2.622585588	1.92E-17	1.92E-15
ENSMUSG00000042688	Mapk6	mitogen-activated protein kinase 6	1.219495124	2.19E-17	2.19E-15
ENSMUSG00000047511	Olf1396	olfactory receptor 1396	-1.731690271	2.46E-17	2.45E-15
ENSMUSG00000061740	Cyp2d22	cytochrome P450, family 2, subfamily d, polypeptide 22	-1.700540002	2.52E-17	2.50E-15
ENSMUSG00000020340	Cyfp2	cytoplasmic FMR1 interacting protein 2	-1.948414808	2.53E-17	2.50E-15
ENSMUSG00000034394	Lif	leukemia inhibitory factor	3.131262946	2.66E-17	2.61E-15
ENSMUSG00000022769	Sdf2l1	stromal cell-derived factor 2-like 1	1.72466611	2.65E-17	2.61E-15
ENSMUSG00000073590	3222401L13Rik	RIKEN cDNA 3222401L13 gene	-1.426320478	2.97E-17	2.90E-15
ENSMUSG00000030254	Rad18	RAD18 homolog (S. cerevisiae)	1.751962307	3.14E-17	3.06E-15
ENSMUSG00000026770	Il2ra	interleukin 2 receptor, alpha chain	-2.381108336	3.46E-17	3.35E-15

ENSMUSG00000043333	Rhbdl2	rhomboid, veinlet-like 2 (<i>Drosophila</i>)	3.189930299	3.58E-17	3.46E-15
ENSMUSG00000042225	Ammecr1	Alport syndrome, mental retardation, midface hypoplasia and elliptocytosis chromosomal region gene 1	1.36362856	3.59E-17	3.46E-15
ENSMUSG00000049107	Ntf3	neurotrophin 3	-1.300495145	4.30E-17	4.13E-15
ENSMUSG00000036356	Csgalnact1	chondroitin sulfate N-acetylgalactosaminyltransferase 1	1.188233145	4.98E-17	4.77E-15
ENSMUSG00000028613	Lrp8	low density lipoprotein receptor-related protein 8, apolipoprotein e receptor	2.850724415	5.19E-17	4.95E-15
ENSMUSG00000030208	Emp1	epithelial membrane protein 1	2.083551126	5.25E-17	4.99E-15
ENSMUSG00000020869	Lrrc59	leucine rich repeat containing 59	1.208218711	5.46E-17	5.17E-15
ENSMUSG00000053411	Cbx7	chromobox 7	-2.180142328	5.61E-17	5.29E-15
ENSMUSG00000003020	Alox12	arachidonate 12-lipoxygenase	-1.279389901	5.90E-17	5.55E-15
ENSMUSG00000005611	Mrv1	MRV integration site 1	-1.302610192	6.45E-17	6.05E-15
ENSMUSG00000070315	4930581F22Rik	RIKEN cDNA 4930581F22 gene	-1.436503589	6.96E-17	6.51E-15
ENSMUSG00000041538	H2-Ob	histocompatibility 2, O region beta locus	-1.896817149	7.83E-17	7.29E-15
ENSMUSG00000049539	Hist1h1a	histone cluster 1, H1a	1.937835424	8.51E-17	7.90E-15
ENSMUSG00000027654	Fam83d	family with sequence similarity 83, member D	2.519262631	9.28E-17	8.58E-15
ENSMUSG00000045281	Gpr20	G protein-coupled receptor 20	-1.823722777	1.00E-16	9.26E-15
ENSMUSG00000041362	4930506M07Rik	RIKEN cDNA 4930506M07 gene	-1.335240981	1.05E-16	9.61E-15
ENSMUSG00000002221	Ripk3	receptor-interacting serine-threonine kinase 3	1.260810312	1.09E-16	9.96E-15
ENSMUSG00000026478	Lamc1	laminin, gamma 1	1.29662456	1.10E-16	1.00E-14
ENSMUSG00000019942	Cdk1	cyclin-dependent kinase 1	3.186581451	1.15E-16	1.05E-14
ENSMUSG00000071324	Armc2	armadillo repeat containing 2	-3.068559372	1.16E-16	1.05E-14
ENSMUSG00000055044	Pdlim1	PDZ and LIM domain 1 (effin)	1.565105086	1.21E-16	1.10E-14
ENSMUSG00000041577	Prep1	proline arginine-rich end leucine-rich repeat	-1.399441809	1.22E-16	1.10E-14
ENSMUSG00000081219	Bambi-ps1	BMP and activin membrane-bound inhibitor, pseudogene (<i>Xenopus laevis</i>)	-1.571608165	1.41E-16	1.27E-14
ENSMUSG00000006586	Runx1t1	runt-related transcription factor 1; translocated to, 1 (cyclin D-related)	-1.288800834	1.48E-16	1.33E-14
ENSMUSG00000006398	Cdc20	cell division cycle 20	1.98176637	1.54E-16	1.38E-14
ENSMUSG00000044258	Ctla2a	cytotoxic T lymphocyte-associated protein 2 alpha	1.847580975	1.58E-16	1.41E-14
ENSMUSG00000006060	Eno3	enolase 3, beta muscle	-1.627673904	1.62E-16	1.44E-14
ENSMUSG00000003762	Nov	nephroblastoma overexpressed gene	-1.680872798	1.79E-16	1.59E-14
ENSMUSG00000028678	Kif2c	kinesin family member 2C	2.991608177	1.89E-16	1.66E-14
ENSMUSG00000079018	Ly6c1	lymphocyte antigen 6 complex, locus C1	-1.687276359	1.91E-16	1.68E-14
ENSMUSG00000026622	Nek2	NIMA (never in mitosis gene a)-related expressed kinase 2	2.833014739	2.07E-16	1.82E-14
ENSMUSG00000023452	Pisd	phosphatidylserine decarboxylase	1.238447112	2.08E-16	1.82E-14
ENSMUSG00000046808	Atp10d	ATPase, class V, type 10D	-1.250083325	2.09E-16	1.82E-14
ENSMUSG000000096054	Syne1	spectrin repeat containing, nuclear envelope 1	-1.183397909	2.27E-16	1.97E-14
ENSMUSG00000028719	Cmpk1	cytidine monophosphate (UMP-CMP) kinase 1	1.184947549	2.30E-16	1.99E-14
ENSMUSG000000054517	Trim65	tripartite motif-containing 65	-1.266466603	2.36E-16	2.04E-14
ENSMUSG00000020571	Pdia6	protein disulfide isomerase associated 6	1.199684013	2.39E-16	2.06E-14
ENSMUSG00000024421	Lama3	laminin, alpha 3	-1.457484871	2.50E-16	2.14E-14
ENSMUSG00000046329	Slc25a23	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 23	-1.604785317	2.53E-16	2.16E-14
ENSMUSG00000018566	Slc2a4	solute carrier family 2 (facilitated glucose transporter), member 4	-1.769922465	2.68E-16	2.29E-14
ENSMUSG000000037239	Spred3	sprouty-related, EVH1 domain containing 3	1.936285173	2.95E-16	2.51E-14
ENSMUSG00000021745	Ptprg	protein tyrosine phosphatase, receptor type, G	-1.185304677	3.13E-16	2.65E-14
ENSMUSG00000007041	Clic1	chloride intracellular channel 1	1.139487505	3.61E-16	3.05E-14
ENSMUSG00000079553	Kifc1	kinesin family member C1	2.604219325	3.79E-16	3.19E-14
ENSMUSG00000001604	Tcea3	transcription elongation factor A (SII), 3	-2.360283045	4.12E-16	3.46E-14
ENSMUSG00000030104	Edem1	ER degradation enhancer, mannosidase alpha-like 1	1.149591466	5.07E-16	4.24E-14
ENSMUSG000000032783	Troap	trophinin associated protein	2.659434157	5.10E-16	4.26E-14
ENSMUSG00000041515	Irf8	interferon regulatory factor 8	2.130046796	5.56E-16	4.63E-14
ENSMUSG00000074874	Ctla2b	cytotoxic T lymphocyte-associated protein 2 beta	1.276817378	5.78E-16	4.80E-14
ENSMUSG00000030677	Kif22	kinesin family member 22	2.793755698	5.96E-16	4.93E-14
ENSMUSG00000047414	Flrt2	fibronectin leucine rich transmembrane protein 2	1.399869071	6.25E-16	5.15E-14
ENSMUSG00000020774	Aspa	aspartoacylase	-1.546805827	6.47E-16	5.32E-14
ENSMUSG00000026179	Pnkd	paroxysmal nonkinesinogenic dyskinesia	-1.16161189	7.23E-16	5.93E-14
ENSMUSG000000031872	Bean1	brain expressed, associated with Nedd4, 1	3.756752209	7.65E-16	6.26E-14
ENSMUSG000000036817	Sun1	Sad1 and UNC84 domain containing 1	-1.186423098	8.53E-16	6.96E-14
ENSMUSG00000054934	Kcnmb4	potassium large conductance calcium-activated channel, subfamily M, beta member 4	3.122275663	8.73E-16	7.10E-14
ENSMUSG00000030110	Ret	ret proto-oncogene	-1.998015951	9.01E-16	7.30E-14
ENSMUSG00000072235	Tuba1a	tubulin, alpha 1A	1.201158837	9.61E-16	7.77E-14
ENSMUSG00000026042	Col5a2	collagen, type V, alpha 2	1.945499646	9.85E-16	7.94E-14
ENSMUSG000000060568	Fam78b	family with sequence similarity 78, member B	1.300587818	1.04E-15	8.39E-14
ENSMUSG00000040548	Tex2	testis expressed gene 2	1.156586535	1.17E-15	9.37E-14
ENSMUSG00000023805	Synj2	synaptotagmin 2	-1.265288634	1.18E-15	9.46E-14
ENSMUSG00000026914	Psm14	proteasome (prosome, macropain) 26S subunit, non-ATPase, 14	1.199046956	1.32E-15	1.05E-13
ENSMUSG00000021256	Vash1	vasohibin 1	1.344924113	1.34E-15	1.07E-13
ENSMUSG00000022831	Hcls1	hematopoietic cell specific Lyn substrate 1	1.539289496	1.40E-15	1.11E-13
ENSMUSG000000074794	Arrdc3	arrestin domain containing 3	1.154855248	1.57E-15	1.24E-13
ENSMUSG00000028718	Stil	Scf/Tal1 interrupting locus	3.117428599	1.87E-15	1.47E-13
ENSMUSG000000056201	Cofil1	cofilin 1, non-muscle	1.123489523	1.92E-15	1.51E-13
ENSMUSG000000051934	Spats2	spermatogenesis associated, serine-rich 2	1.323045955	1.95E-15	1.53E-13
ENSMUSG00000034855	Cxcl10	chemokine (C-X-C motif) ligand 10	1.722552623	2.09E-15	1.63E-13
ENSMUSG00000022876	Samsn1	SAM domain, SH3 domain and nuclear localization signals, 1	1.654021164	2.11E-15	1.64E-13
ENSMUSG00000020116	Pho1	partner of NOB1 homolog (<i>S. cerevisiae</i>)	1.372749973	2.13E-15	1.65E-13
ENSMUSG000000032575	Manf	mesencephalic astrocyte-derived neurotrophic factor	1.195538879	2.21E-15	1.71E-13

ENSMUSG00000030098	Grip2	glutamate receptor interacting protein 2	-2.448397891	2.24E-15	1.73E-13
ENSMUSG00000032549	Rab6b	RAB6B, member RAS oncogene family	-1.304558389	2.30E-15	1.77E-13
ENSMUSG00000027399	Il1a	interleukin 1 alpha	2.938026907	2.47E-15	1.90E-13
ENSMUSG00000022070	Bora	bora, aurora kinase A activator	1.86265775	2.48E-15	1.90E-13
ENSMUSG00000047557	Lxn	latexin	1.241131866	2.49E-15	1.90E-13
ENSMUSG00000031791	Tmem38a	transmembrane protein 38A	-1.720180655	2.49E-15	1.90E-13
ENSMUSG00000021109	Hif1a	hypoxia inducible factor 1, alpha subunit	1.1188257	2.53E-15	1.92E-13
ENSMUSG00000083282	Ctsf	cathepsin F	-1.414541285	2.57E-15	1.95E-13
ENSMUSG00000000794	Kcnn3	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3	-1.921286648	2.74E-15	2.07E-13
ENSMUSG00000024165	Hn11	hematological and neurological expressed 1-like	1.64081124	2.77E-15	2.09E-13
ENSMUSG00000024998	Plce1	phospholipase C, epsilon 1	-1.246033532	3.15E-15	2.37E-13
ENSMUSG00000020866	Cacna1g	calcium channel, voltage-dependent, T type, alpha 1G subunit	-2.266103988	3.36E-15	2.52E-13
ENSMUSG00000033792	Atp7a	ATPase, Cu++ transporting, alpha polypeptide	1.141244564	3.37E-15	2.52E-13
ENSMUSG00000036528	Ppifbp2	PTPRF interacting protein, binding protein 2 (liprin beta 2)	-1.720704499	3.67E-15	2.74E-13
ENSMUSG00000082431	Tdpx-ps1	thioredoxin peroxidase, pseudogene 1	Inf	3.74E-15	2.78E-13
ENSMUSG00000039166	Akap7	A kinase (PKA) anchor protein 7	-1.268482169	3.94E-15	2.92E-13
ENSMUSG00000030591	Psmc8	proteasome (prosome, macropain) 26S subunit, non-ATPase, 8	1.112391348	4.07E-15	3.01E-13
ENSMUSG00000097099	Gm9917	predicted gene 9917	-1.326593662	4.30E-15	3.18E-13
ENSMUSG00000034663	Bmp2k	BMP2 inducible kinase	1.149212879	4.36E-15	3.21E-13
ENSMUSG00000070469	Adamts13	ADAMTS-like 3	1.3415894	4.40E-15	3.23E-13
ENSMUSG00000068566	Myadm	myeloid-associated differentiation marker	1.109849313	4.50E-15	3.30E-13
ENSMUSG00000027784	Ppm1l	protein phosphatase 1 (formerly 2C)-like	-1.246457162	4.90E-15	3.58E-13
ENSMUSG00000027217	Tspan18	tetraspanin 18	1.386720298	4.94E-15	3.60E-13
ENSMUSG00000026600	Soat1	sterol O-acyltransferase 1	1.184271296	5.36E-15	3.90E-13
ENSMUSG00000085180	Al838599	expressed sequence Al838599	-2.494079827	5.75E-15	4.17E-13
ENSMUSG00000032231	Anxa2	annexin A2	1.283218081	5.82E-15	4.21E-13
ENSMUSG00000065232	Gm22973	predicted gene, 22973	1.129477569	6.00E-15	4.33E-13
ENSMUSG00000027716	Trpc3	transient receptor potential cation channel, subfamily C, member 3	-1.362872957	6.35E-15	4.57E-13
ENSMUSG00000047793	Shed1	sushi, nidogen and EGF-like domains 1	-1.281877275	6.43E-15	4.61E-13
ENSMUSG00000015202	Cnksr3	Cnksr family member 3	1.236141402	6.57E-15	4.70E-13
ENSMUSG00000020589	Fam49a	family with sequence similarity 49, member A	1.409476607	7.29E-15	5.21E-13
ENSMUSG00000041134	Cyr1	cysteine and tyrosine-rich protein 1	-1.15602326	7.84E-15	5.58E-13
ENSMUSG00000021680	Crhbp	corticotropin releasing hormone binding protein	7.367994696	7.98E-15	5.67E-13
ENSMUSG00000028873	Cdca8	cell division cycle associated 8	2.960489829	8.11E-15	5.75E-13
ENSMUSG00000024193	Phf1	PHD finger protein 1	-1.608685496	8.42E-15	5.95E-13
ENSMUSG00000030650	Tmc5	transmembrane channel-like gene family 5	-1.583616625	8.63E-15	6.08E-13
ENSMUSG00000031278	AcsL4	acyl-CoA synthetase long-chain family member 4	1.112266173	8.86E-15	6.23E-13
ENSMUSG00000031502	Col4a1	collagen, type IV, alpha 1	1.375975963	8.90E-15	6.24E-13
ENSMUSG00000027447	Cst3	cystatin C	-1.315957185	9.03E-15	6.32E-13
ENSMUSG00000035268	Pki	protein kinase inhibitor, gamma	1.243379052	9.15E-15	6.39E-13
ENSMUSG0000003779	Kif20a	kinesin family member 20A	2.793630623	9.26E-15	6.45E-13
ENSMUSG00000028937	Acot7	acyl-CoA thioesterase 7	1.27697809	9.56E-15	6.64E-13
ENSMUSG00000030693	Klk10	kallikrein related-peptidase 10	-2.803066898	9.84E-15	6.82E-13
ENSMUSG00000001131	Timp1	tissue inhibitor of metalloproteinase 1	3.617368817	9.90E-15	6.84E-13
ENSMUSG00000029334	Prkg2	protein kinase, cGMP-dependent, type II	-1.861789038	1.03E-14	7.11E-13
ENSMUSG00000037020	Wdr62	WD repeat domain 62	1.508607013	1.04E-14	7.17E-13
ENSMUSG00000024228	Nudt12	nudix (nucleoside diphosphate linked moiety X)-type motif 12	-1.232562783	1.08E-14	7.40E-13
ENSMUSG00000012519	Mkl1	mixed lineage kinase domain-like	1.177442386	1.15E-14	7.85E-13
ENSMUSG00000037613	Tnfrsf23	tumor necrosis factor receptor superfamily, member 23	1.542098593	1.17E-14	8.00E-13
ENSMUSG00000032690	Oas2	2'-5' oligoadenylate synthetase 2	-1.275816805	1.18E-14	8.03E-13
ENSMUSG00000027331	Knstrn	kinetochore-localized astrin/SPAG5 binding	2.588841357	1.20E-14	8.14E-13
ENSMUSG00000030603	Psmc4	proteasome (prosome, macropain) 26S subunit, ATPase, 4	1.10556851	1.28E-14	8.70E-13
ENSMUSG00000039328	Rnf122	ring finger protein 122	1.145309231	1.30E-14	8.78E-13
ENSMUSG00000038893	Fam117a	family with sequence similarity 117, member A	-1.43188806	1.31E-14	8.81E-13
ENSMUSG00000032643	Fhl3	four and a half LIM domains 3	2.278219243	1.33E-14	8.95E-13
ENSMUSG00000024270	Slc39a6	solute carrier family 39 (metal ion transporter), member 6	1.21892439	1.36E-14	9.13E-13
ENSMUSG00000037358	4930578C19Rik	RIKEN cDNA 4930578C19 gene	-1.139655611	1.36E-14	9.13E-13
ENSMUSG00000028068	Iqgap3	IQ motif containing GTPase activating protein 3	2.340297821	1.39E-14	9.31E-13
ENSMUSG00000030739	Myh14	myosin, heavy polypeptide 14	-2.486366298	1.42E-14	9.47E-13
ENSMUSG00000018986	Sln3	schlafen 3	-1.258454307	1.43E-14	9.50E-13
ENSMUSG00000033910	Gucy1a3	guanylate cyclase 1, soluble, alpha 3	-1.250797438	1.45E-14	9.62E-13
ENSMUSG00000029777	Gars	glycyl-tRNA synthetase	1.102126621	1.47E-14	9.71E-13
ENSMUSG00000030513	Pcsk6	proprotein convertase subtilisin/kexin type 6	-1.356229909	1.57E-14	1.04E-12
ENSMUSG00000000957	Mmp14	matrix metalloproteinase 14 (membrane-inserted)	3.346851409	1.60E-14	1.06E-12
ENSMUSG00000040987	Mill2	MHC I like leukocyte 2	-1.393461307	1.67E-14	1.10E-12
ENSMUSG00000030641	Ddias	DNA damage-induced apoptosis suppressor	2.091197354	1.69E-14	1.11E-12
ENSMUSG00000044229	Nxpe4	neurexophilin and PC-esterase domain family, member 4	-1.09548108	1.77E-14	1.16E-12
ENSMUSG00000052151	Ppap2c	phosphatidic acid phosphatase type 2C	1.827583064	1.98E-14	1.29E-12
ENSMUSG00000035095	Fam167a	family with sequence similarity 167, member A	2.617181004	2.09E-14	1.36E-12
ENSMUSG00000022233	Rhoc	ras homolog gene family, member C	1.351438127	2.14E-14	1.39E-12
ENSMUSG00000026341	Actr3	ARP3 actin-related protein 3	1.10466487	2.15E-14	1.39E-12
ENSMUSG00000097006	9530082P21Rik	RIKEN cDNA 9530082P21 gene	-1.153287329	2.21E-14	1.43E-12
ENSMUSG00000038583	Pln	phospholamban	-1.815660629	2.30E-14	1.49E-12

ENSMUSG00000027663	Zmat3	zinc finger matrin type 3	1.184949952	2.38E-14	1.53E-12
ENSMUSG00000044469	Tnfrsf81	tumor necrosis factor, alpha-induced protein 8-like 1	1.186622645	2.50E-14	1.60E-12
ENSMUSG00000018166	ErbB3	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)	-1.884955713	2.70E-14	1.73E-12
ENSMUSG00000042680	Garef	GRB2 associated, regulator of MAPK1	-1.390437503	2.80E-14	1.79E-12
ENSMUSG00000023919	Cenpq	centromere protein Q	2.416120802	2.81E-14	1.79E-12
ENSMUSG00000008475	Arpc5	actin related protein 2/3 complex, subunit 5	1.073684244	2.95E-14	1.87E-12
ENSMUSG00000039304	Tnfrsf10	tumor necrosis factor (ligand) superfamily, member 10	-1.143468548	2.96E-14	1.88E-12
ENSMUSG00000006642	Tcf23	transcription factor 23	-4.157375821	3.03E-14	1.92E-12
ENSMUSG00000058704	Memo1	mediator of cell motility 1	1.197587456	3.21E-14	2.03E-12
ENSMUSG00000001467	Cyp51	cytochrome P450, family 51	1.396996508	3.37E-14	2.12E-12
ENSMUSG00000028883	Sema3a	sema domain, immunoglobulin domain (lg), short basic domain, secreted, (semaphorin) 3A	1.262682757	3.41E-14	2.15E-12
ENSMUSG00000022440	C1qtnf6	C1q and tumor necrosis factor related protein 6	1.741119861	3.58E-14	2.25E-12
ENSMUSG00000050315	Synpo2	synaptopodin 2	-1.170195195	3.64E-14	2.28E-12
ENSMUSG00000030577	Cd22	CD22 antigen	-1.98163537	3.74E-14	2.34E-12
ENSMUSG00000020614	Fam20a	family with sequence similarity 20, member A	-1.722862452	4.15E-14	2.59E-12
ENSMUSG00000075590	Nrbp2	nuclear receptor binding protein 2	-1.25714932	4.35E-14	2.70E-12
ENSMUSG00000030747	Dgat2	diacylglycerol O-acyltransferase 2	-2.363802145	4.34E-14	2.70E-12
ENSMUSG00000023336	Wfdc1	WAP four-disulfide core domain 1	-1.803082551	4.47E-14	2.76E-12
ENSMUSG00000054252	Fgfr3	fibroblast growth factor receptor 3	-3.246216246	4.46E-14	2.76E-12
ENSMUSG00000021068	Nin	ninein	1.074300327	4.48E-14	2.77E-12
ENSMUSG00000074093	Svip	small VCP/p97-interacting protein	-1.349065207	4.78E-14	2.95E-12
ENSMUSG00000021200	Asb2	ankyrin repeat and SOCS box-containing 2	-2.615956465	4.96E-14	3.05E-12
ENSMUSG00000044068	Zrsr1	zinc finger (CCCH type), RNA binding motif and serine/arginine rich 1	-1.250841738	5.29E-14	3.24E-12
ENSMUSG00000032193	Ldlr	low density lipoprotein receptor	1.445409091	5.63E-14	3.44E-12
ENSMUSG00000029651	Mtus2	microtubule associated tumor suppressor candidate 2	-1.634868095	5.74E-14	3.50E-12
ENSMUSG00000036155	Mgat5	mannoside acetylglucosaminyltransferase 5	1.084984293	5.98E-14	3.64E-12
ENSMUSG00000029752	Asns	asparagine synthetase	1.198296853	6.16E-14	3.73E-12
ENSMUSG00000021779	Thrb	thyroid hormone receptor beta	-2.29097508	6.16E-14	3.73E-12
ENSMUSG00000020029	Nudt4	nudix (nucleoside diphosphate linked moiety X)-type motif 4	1.102597129	6.20E-14	3.75E-12
ENSMUSG00000003812	Dnase2a	deoxyribonuclease II alpha	-1.429085892	6.34E-14	3.83E-12
ENSMUSG00000035443	Thyn1	thymocyte nuclear protein 1	1.348749254	6.62E-14	3.99E-12
ENSMUSG00000040370	Lyrm5	LYR motif containing 5	-1.420561086	6.65E-14	4.00E-12
ENSMUSG00000036256	Igf1bp7	insulin-like growth factor binding protein 7	1.094625716	6.76E-14	4.04E-12
ENSMUSG00000024210	Ipk6k3	inositol hexaphosphate kinase 3	-2.422028056	6.75E-14	4.04E-12
ENSMUSG00000041235	Chd7	chromodomain helicase DNA binding protein 7	1.031337431	6.86E-14	4.10E-12
ENSMUSG00000058773	Hist1h1b	histone cluster 1, H1b	2.598255684	7.02E-14	4.18E-12
ENSMUSG00000016756	Cmah	cytidine monophospho-N-acetylneuraminic acid hydroxylase	-1.726886454	7.03E-14	4.18E-12
ENSMUSG00000028367	Txn1	thioredoxin 1	1.093208535	7.14E-14	4.24E-12
ENSMUSG00000041064	Pif1	PIF1 5'-to-3' DNA helicase homolog (S. cerevisiae)	2.829532308	7.23E-14	4.28E-12
ENSMUSG00000085382	Gm13861	predicted gene 13861	-1.842356856	8.35E-14	4.93E-12
ENSMUSG00000043631	Ecm2	extracellular matrix protein 2, female organ and adipocyte specific	-1.4098655	9.38E-14	5.54E-12
ENSMUSG00000039115	Itga9	integrin alpha 9	1.541673182	9.61E-14	5.65E-12
ENSMUSG00000027533	Fabp5	fatty acid binding protein 5, epidermal	1.205133114	9.80E-14	5.75E-12
ENSMUSG00000017652	Cd40	CD40 antigen	-1.347082623	9.98E-14	5.85E-12
ENSMUSG00000022698	Naa50	N(alpha)-acetyltransferase 50, NatE catalytic subunit	1.100419325	1.02E-13	5.97E-12
ENSMUSG00000019732	Calr3	calreticulin 3	2.384044234	1.03E-13	6.04E-12
ENSMUSG00000057137	Tmem140	transmembrane protein 140	-1.16656123	1.09E-13	6.37E-12
ENSMUSG00000038776	Ephx1	epoxide hydrolase 1, microsomal	-2.373380624	1.11E-13	6.44E-12
ENSMUSG00000104475	RP24-422C24.2		1.934868346	1.13E-13	6.57E-12
ENSMUSG00000028755	Cda	cytidine deaminase	1.57372923	1.14E-13	6.62E-12
ENSMUSG00000051177	Plcb1	phospholipase C, beta 1	-1.104804071	1.20E-13	6.92E-12
ENSMUSG00000026563	Tada1	transcriptional adaptor 1	1.13863511	1.23E-13	7.08E-12
ENSMUSG00000052861	Dnah6	dynein, axonemal, heavy chain 6	1.663612572	1.23E-13	7.10E-12
ENSMUSG00000033213	AA467197	expressed sequence AA467197	6.288394444	1.27E-13	7.29E-12
ENSMUSG00000031681	Smad1	SMAD family member 1	1.021499935	1.27E-13	7.29E-12
ENSMUSG00000031377	Bmx	BMX non-receptor tyrosine kinase	-1.273522577	1.36E-13	7.80E-12
ENSMUSG00000038204	Asb10	ankyrin repeat and SOCS box-containing 10	-2.43650733	1.38E-13	7.85E-12
ENSMUSG00000034906	Ncaph	non-SMC condensin I complex, subunit H	1.906665937	1.39E-13	7.92E-12
ENSMUSG00000078453	Abracl	ABRA C-terminal like	1.187868267	1.40E-13	7.94E-12
ENSMUSG00000028803	Nipal3	NIPA-like domain containing 3	-1.13010059	1.49E-13	8.44E-12
ENSMUSG00000022357	Klhl38	kelch-like 38	-2.601551772	1.65E-13	9.35E-12
ENSMUSG00000027496	Aurka	aurora kinase A	2.590320655	1.68E-13	9.50E-12
ENSMUSG00000067081	Asb18	ankyrin repeat and SOCS box-containing 18	-3.059904053	1.73E-13	9.75E-12
ENSMUSG00000051378	Kif18b	kinesin family member 18B	2.57530277	1.77E-13	9.97E-12
ENSMUSG00000045136	Tubb2b	tubulin, beta 2B class IIb	2.799299741	1.90E-13	1.07E-11
ENSMUSG00000030729	Pgm2l1	phosphoglucomutase 2-like 1	1.075061638	1.91E-13	1.07E-11
ENSMUSG00000029121	Crmp1	collapsin response mediator protein 1	2.419325227	1.98E-13	1.11E-11
ENSMUSG00000037014	Sstr4	somatostatin receptor 4	-2.961207673	2.12E-13	1.18E-11
ENSMUSG00000024548	Setbp1	SET binding protein 1	-1.508329319	2.19E-13	1.22E-11
ENSMUSG00000043366	Olfir78	olfactory receptor 78	-1.286760147	2.43E-13	1.35E-11
ENSMUSG00000026864	Hspa5	heat shock protein 5	1.033689029	2.44E-13	1.36E-11
ENSMUSG00000026110	Mgat4a	mannoside acetylglucosaminyltransferase 4, isoenzyme A	1.183468458	2.48E-13	1.37E-11
ENSMUSG00000090222	Gm16340	predicted gene 16340	-1.368117835	2.52E-13	1.39E-11

ENSMUSG00000047419	Cmya5	cardiomyopathy associated 5	-1.855476008	2.79E-13	1.54E-11
ENSMUSG00000026489	Adck3	aarF domain containing kinase 3	-1.694396272	2.80E-13	1.54E-11
ENSMUSG00000004317	Cicn5	chloride channel 5	1.219892646	2.84E-13	1.56E-11
ENSMUSG00000032475	Nck1	non-catalytic region of tyrosine kinase adaptor protein 1	-1.042889764	2.84E-13	1.56E-11
ENSMUSG00000046607	Hrk	harakiri, BCL2 interacting protein (contains only BH3 domain)	-2.539815361	2.84E-13	1.56E-11
ENSMUSG00000032548	Sico2a1	solute carrier organic anion transporter family, member 2a1	-1.198632439	2.88E-13	1.57E-11
ENSMUSG00000025780	Ilih5	inter-alpha (globulin) inhibitor H5	-1.196365693	3.10E-13	1.69E-11
ENSMUSG00000067377	Tspan6	tetraspanin 6	1.065745054	3.17E-13	1.73E-11
ENSMUSG00000038910	Plcl2	phospholipase C-like 2	1.19802345	3.22E-13	1.75E-11
ENSMUSG00000044345	Marveld1	MARVEL (membrane-associating) domain containing 1	-1.191170145	3.29E-13	1.78E-11
ENSMUSG00000015143	Actn1	actinin, alpha 1	1.023876616	3.50E-13	1.89E-11
ENSMUSG00000031503	Col4a2	collagen, type IV, alpha 2	1.336674921	3.98E-13	2.15E-11
ENSMUSG00000028518	Prkaa2	protein kinase, AMP-activated, alpha 2 catalytic subunit	-1.36623545	4.02E-13	2.17E-11
ENSMUSG00000032034	Kcnj5	potassium inwardly-rectifying channel, subfamily J, member 5	-2.322407249	4.10E-13	2.21E-11
ENSMUSG00000031821	Gins2	GIN5 complex subunit 2 (Psf2 homolog)	2.054569101	4.17E-13	2.24E-11
ENSMUSG00000038437	MLI6	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 6	-1.135761777	4.38E-13	2.35E-11
ENSMUSG00000032740	Ccdc88a	coiled coil domain containing 88A	1.05991419	4.45E-13	2.38E-11
ENSMUSG00000026321	Tnfrsf11a	tumor necrosis factor receptor superfamily, member 11a, NFKB activator	-1.368669529	4.44E-13	2.38E-11
ENSMUSG00000024360	Etf1	eukaryotic translation termination factor 1	1.025828953	4.48E-13	2.39E-11
ENSMUSG00000025747	Tyms	thymidylate synthase	1.662495562	4.58E-13	2.44E-11
ENSMUSG00000040170	Fmo2	flavin containing monooxygenase 2	-1.709674457	4.74E-13	2.52E-11
ENSMUSG00000053931	Cnn3	calponin 3, acidic	1.003586713	4.76E-13	2.52E-11
ENSMUSG00000022793	B4galt4	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 4	-1.404286464	4.84E-13	2.56E-11
ENSMUSG00000034457	Eda2r	ectodysplasin A2 receptor	1.23644898	4.93E-13	2.60E-11
ENSMUSG00000058656	Samd12	sterile alpha motif domain containing 12	-1.21818963	5.23E-13	2.76E-11
ENSMUSG00000034981	Pam1	prostate androgen-regulated mucin-like protein 1	-1.140338251	5.32E-13	2.80E-11
ENSMUSG00000006304	Arpc2	actin related protein 2/3 complex, subunit 2	1.015405108	5.33E-13	2.80E-11
ENSMUSG00000023046	Igfbp6	insulin-like growth factor binding protein 6	-3.146279442	5.48E-13	2.87E-11
ENSMUSG00000025083	Afp1l2	actin filament associated protein 1-like 2	-1.194633006	5.60E-13	2.93E-11
ENSMUSG00000010051	Hyal1	hyaluronoglucosaminidase 1	-1.964523902	5.63E-13	2.94E-11
ENSMUSG00000055980	Irs1	insulin receptor substrate 1	-1.461655432	5.69E-13	2.96E-11
ENSMUSG00000020605	Hs1bp3	HCLS1 binding protein 3	-1.246744555	5.97E-13	3.11E-11
ENSMUSG00000049866	Arl4c	ADP-ribosylation factor-like 4C	1.248156311	6.04E-13	3.14E-11
ENSMUSG00000028381	Ugcg	UDP-glucose ceramide glucosyltransferase	1.043048239	6.11E-13	3.17E-11
ENSMUSG00000022378	Fam49b	family with sequence similarity 49, member B	1.096660537	6.21E-13	3.21E-11
ENSMUSG00000048458	Fam212b	family with sequence similarity 212, member B	-1.078048733	6.30E-13	3.25E-11
ENSMUSG00000030351	Tspan11	tetraspanin 11	-1.721951535	6.43E-13	3.31E-11
ENSMUSG00000025746	Il6	interleukin 6	1.544515219	6.71E-13	3.45E-11
ENSMUSG00000022519	Srl	sarcalumenin	-1.543308602	7.26E-13	3.73E-11
ENSMUSG00000034872	Gipc3	GIPC PDZ domain containing family, member 3	-1.379483291	7.70E-13	3.95E-11
ENSMUSG00000001123	Lgals9	lectin, galactose binding, soluble 9	1.014835504	7.73E-13	3.95E-11
ENSMUSG00000064225	Paqr9	progesterin and adipoQ receptor family member IX	-2.372354405	7.95E-13	4.06E-11
ENSMUSG00000025504	Eps8l2	EPS8-like 2	-2.181545673	8.12E-13	4.14E-11
ENSMUSG00000019796	Lrp11	low density lipoprotein receptor-related protein 11	1.556816951	8.20E-13	4.17E-11
ENSMUSG00000037060	Prkcdp	protein kinase C, delta binding protein	1.346286941	8.30E-13	4.22E-11
ENSMUSG00000031755	Bbs2	Bardet-Biedl syndrome 2 (human)	-1.274026586	8.56E-13	4.34E-11
ENSMUSG00000003585	Sec14l2	SEC14-like 2 (S. cerevisiae)	1.466117438	8.70E-13	4.40E-11
ENSMUSG00000038764	Ptpn3	protein tyrosine phosphatase, non-receptor type 3	-1.643454457	8.75E-13	4.42E-11
ENSMUSG00000046532	Ar	androgen receptor	-1.204976255	8.90E-13	4.49E-11
ENSMUSG00000041431	Ccnb1	cyclin B1	3.286700766	8.96E-13	4.51E-11
ENSMUSG00000006675	P4htm	prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum)	-1.804720918	9.18E-13	4.61E-11
ENSMUSG00000020839	Tmjgd1	transmembrane and immunoglobulin domain containing 1	-2.448921449	9.41E-13	4.72E-11
ENSMUSG00000085069	Gm13111	predicted gene 13111	-1.841927431	9.88E-13	4.95E-11
ENSMUSG00000039005	Tlr4	toll-like receptor 4	1.079261507	1.03E-12	5.15E-11
ENSMUSG00000021116	Eif2s1	eukaryotic translation initiation factor 2, subunit 1 alpha	1.078672939	1.06E-12	5.30E-11
ENSMUSG00000029438	Bcl7a	B cell CLL/lymphoma 7A	-1.216229103	1.07E-12	5.32E-11
ENSMUSG00000017417	Plxdc1	plexin domain containing 1	-1.688220137	1.08E-12	5.35E-11
ENSMUSG00000019917	10-Sep	septin 10	1.051606195	1.09E-12	5.38E-11
ENSMUSG00000037071	Scd1	stearoyl-Coenzyme A desaturase 1	-1.177192333	1.14E-12	5.67E-11
ENSMUSG00000021670	Hmgcr	3-hydroxy-3-methylglutaryl-Coenzyme A reductase	1.057724646	1.20E-12	5.95E-11
ENSMUSG00000063286	Gm8995	predicted gene 8995	-1.008525122	1.28E-12	6.30E-11
ENSMUSG00000072568	Fam84b	family with sequence similarity 84, member B	-0.938625332	1.30E-12	6.39E-11
ENSMUSG00000015377	Dennd6b	DENNMADD domain containing 6B	-1.527082299	1.31E-12	6.42E-11
ENSMUSG00000051984	Sec31b	Sec31 homolog B (S. cerevisiae)	-2.159913982	1.32E-12	6.47E-11
ENSMUSG00000059743	Fdps	farnesyl diphosphate synthetase	1.430362432	1.34E-12	6.58E-11
ENSMUSG00000032372	Plscr2	phospholipid scramblase 2	-1.017013242	1.35E-12	6.58E-11
ENSMUSG00000021754	Map3k1	mitogen-activated protein kinase kinase kinase 1	-1.033989989	1.34E-12	6.58E-11
ENSMUSG00000021823	Vcl	vinculin	0.994478797	1.36E-12	6.64E-11
ENSMUSG00000056737	Capp	capping protein (actin filament), gelsolin-like	1.913263435	1.37E-12	6.67E-11
ENSMUSG00000032766	Gng11	guanine nucleotide binding protein (G protein), gamma 11	0.996978012	1.41E-12	6.86E-11
ENSMUSG00000078670	Fam174b	family with sequence similarity 174, member B	-1.260491856	1.43E-12	6.92E-11
ENSMUSG00000043079	Synpo	synaptopodin	1.115424246	1.44E-12	6.95E-11
ENSMUSG00000021831	Ero1l	ERO1-like (S. cerevisiae)	1.038037698	1.44E-12	6.95E-11

ENSMUSG0000003809	Gcdh	glutaryl-Coenzyme A dehydrogenase	-1.183841115	1.46E-12	7.02E-11
ENSMUSG00000044951	Mylik4	myosin light chain kinase family, member 4	-3.122723003	1.48E-12	7.14E-11
ENSMUSG00000058173	Smco4	single-pass membrane protein with coiled-coil domains 4	-1.098200042	1.53E-12	7.34E-11
ENSMUSG00000020121	Srgap1	SLIT-ROBO Rho GTPase activating protein 1	1.057386117	1.56E-12	7.50E-11
ENSMUSG00000086567	Gm2830	predicted gene 2830	-1.308660845	1.73E-12	8.29E-11
ENSMUSG00000040234	Tm7sf3	transmembrane 7 superfamily member 3	-1.110564907	1.73E-12	8.29E-11
ENSMUSG00000039601	Rcan2	regulator of calcineurin 2	-1.429797103	1.75E-12	8.37E-11
ENSMUSG00000072849	Serpina1e	serine (or cysteine) peptidase inhibitor, clade A, member 1E	-4.537557523	1.79E-12	8.56E-11
ENSMUSG00000032815	Fanca	Fanconi anemia, complementation group A	2.168165239	1.91E-12	9.08E-11
ENSMUSG00000027087	Itgav	integrin alpha V	1.312981031	1.92E-12	9.11E-11
ENSMUSG00000025574	Tk1	thymidine kinase 1	2.456580853	2.00E-12	9.50E-11
ENSMUSG00000029581	Fscn1	fascin homolog 1, actin bundling protein (Strongylocentrotus purpuratus)	1.240330671	2.11E-12	9.98E-11
ENSMUSG00000036278	Macrod1	MACRO domain containing 1	-1.781170172	2.16E-12	1.02E-10
ENSMUSG00000026029	Casp8	caspase 8	1.025469748	2.20E-12	1.04E-10
ENSMUSG00000020737	Hn1	hematological and neurological expressed sequence 1	1.232221742	2.21E-12	1.04E-10
ENSMUSG00000021638	Ocln	occludin	1.37320247	2.23E-12	1.05E-10
ENSMUSG00000015981	Stk32c	serine/threonine kinase 32C	1.296102874	2.28E-12	1.07E-10
ENSMUSG00000040631	Dok4	docking protein 4	-0.919047605	2.31E-12	1.08E-10
ENSMUSG00000029552	Tes	testis derived transcript	1.614229109	2.37E-12	1.11E-10
ENSMUSG00000021877	Arf4	ADP-ribosylation factor 4	1.013203713	2.50E-12	1.17E-10
ENSMUSG00000021579	Lrrc14b	leucine rich repeat containing 14B	-2.722281189	2.54E-12	1.19E-10
ENSMUSG00000037922	Bank1	B cell scaffold protein with ankyrin repeats 1	-1.688411026	2.57E-12	1.20E-10
ENSMUSG00000031604	Msmo1	methylsterol monooxygenase 1	1.095076516	2.59E-12	1.20E-10
ENSMUSG00000024789	Jak2	Janus kinase 2	0.981572829	2.59E-12	1.20E-10
ENSMUSG00000028403	Zdhc21	zinc finger, DHHC domain containing 21	1.074004283	2.61E-12	1.21E-10
ENSMUSG00000057406	Whsc1	Wolf-Hirschhorn syndrome candidate 1 (human)	1.182782163	2.62E-12	1.21E-10
ENSMUSG00000022965	Ilngr2	interferon gamma receptor 2	1.0395605	2.62E-12	1.21E-10
ENSMUSG00000027669	Gnb4	guanine nucleotide binding protein (G protein), beta 4	1.010948551	2.69E-12	1.24E-10
ENSMUSG00000060935	Tmem263	transmembrane protein 263	1.038128209	2.72E-12	1.25E-10
ENSMUSG00000024810	Ii33	interleukin 33	-1.602829389	2.74E-12	1.26E-10
ENSMUSG00000030022	Adamts9	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 9	1.193929657	2.76E-12	1.27E-10
ENSMUSG00000066319	Rtp3	receptor transporter protein 3	-1.498669834	2.81E-12	1.29E-10
ENSMUSG00000024048	My112a	myosin, light chain 12A, regulatory, non-sarcomeric	1.167945627	2.92E-12	1.33E-10
ENSMUSG00000035293	G2e3	G2/M-phase specific E3 ubiquitin ligase	1.06705643	2.93E-12	1.34E-10
ENSMUSG00000097915	A330009N23Rik	RIKEN cDNA A330009N23 gene	-1.045688897	2.96E-12	1.35E-10
ENSMUSG00000035606	Ky	kyphoscoliosis peptidase	-2.751635153	2.97E-12	1.35E-10
ENSMUSG00000067931	Zfp948	zinc finger protein 948	1.044716026	3.02E-12	1.37E-10
ENSMUSG00000006362	Cbfa2i3	core-binding factor, runt domain, alpha subunit 2, translocated to, 3 (human)	-1.626417993	3.06E-12	1.39E-10
ENSMUSG00000037544	Dlgap5	discs, large (Drosophila) homolog-associated protein 5	2.91463302	3.10E-12	1.41E-10
ENSMUSG00000001435	Col18a1	collagen, type XVIII, alpha 1	2.575116571	3.12E-12	1.41E-10
ENSMUSG00000044471	Lincpint	long intergenic non-protein coding RNA, Trp53 induced transcript	-1.338942648	3.23E-12	1.46E-10
ENSMUSG00000038267	Sic22a23	solute carrier family 22, member 23	1.53771537	3.52E-12	1.59E-10
ENSMUSG00000034275	Igsl9b	immunoglobulin superfamily, member 9B	-1.690224587	3.58E-12	1.61E-10
ENSMUSG00000031698	Mylik3	myosin light chain kinase 3	-2.258460889	3.60E-12	1.62E-10
ENSMUSG00000021318	Gli3	GLI-Kruppel family member GLI3	1.320902695	3.66E-12	1.64E-10
ENSMUSG00000056394	Lig1	ligase I, DNA, ATP-dependent	1.371204023	3.73E-12	1.67E-10
ENSMUSG00000038388	Mpp6	membrane protein, palmitoylated 6 (MAGUK p55 subfamily member 6)	1.120040408	3.75E-12	1.68E-10
ENSMUSG00000034057	Myrl1	myelin regulatory factor-like	2.308297387	3.86E-12	1.72E-10
ENSMUSG000000051586	Mical3	microtubule associated monooxygenase, calponin and LIM domain containing 3	-1.146540881	4.08E-12	1.82E-10
ENSMUSG00000058135	Gstm1	glutathione S-transferase, mu 1	-1.121814042	4.15E-12	1.85E-10
ENSMUSG00000026944	Abca2	ATP-binding cassette, sub-family A (ABC1), member 2	-1.437388197	4.24E-12	1.88E-10
ENSMUSG00000061615	Hist1h2ab	histone cluster 1, H2ab	2.133091762	4.41E-12	1.96E-10
ENSMUSG00000002055	Spag5	sperm associated antigen 5	2.76845336	4.54E-12	2.01E-10
ENSMUSG00000041025	Iifo2	intermediate filament family orphan 2	1.172591479	4.61E-12	2.04E-10
ENSMUSG00000086938	4930481A15Rik	RIKEN cDNA 4930481A15 gene	-1.959960657	4.74E-12	2.09E-10
ENSMUSG00000021266	Wars	tryptophanyl-tRNA synthetase	-0.99587947	4.80E-12	2.12E-10
ENSMUSG00000030724	Cd19	CD19 antigen	-1.612695773	4.89E-12	2.15E-10
ENSMUSG00000031997	Trpc6	transient receptor potential cation channel, subfamily C, member 6	1.233099431	4.91E-12	2.16E-10
ENSMUSG00000074802	Gas2l3	growth arrest-specific 2 like 3	2.555030953	4.95E-12	2.17E-10
ENSMUSG00000073888	Ccl27a	chemokine (C-C motif) ligand 27A	-4.483820903	4.95E-12	2.17E-10
ENSMUSG00000075254	Heg1	HEG homolog 1 (zebrafish)	-0.987697893	4.99E-12	2.18E-10
ENSMUSG00000071604	Fam189a2	family with sequence similarity 189, member A2	-1.153243003	5.04E-12	2.20E-10
ENSMUSG00000025268	Maged2	melanoma antigen, family D, 2	1.213110669	5.10E-12	2.22E-10
ENSMUSG00000013584	Aldh1a2	aldehyde dehydrogenase family 1, subfamily A2	3.1987179	5.56E-12	2.42E-10
ENSMUSG00000034205	Loxl2	lysyl oxidase-like 2	2.485195655	5.79E-12	2.52E-10
ENSMUSG00000029465	Arpc3	actin related protein 2/3 complex, subunit 3	0.963669662	5.86E-12	2.54E-10
ENSMUSG00000045328	Cenpe	centromere protein E	2.780515739	5.87E-12	2.54E-10
ENSMUSG00000023505	Cdca3	cell division cycle associated 3	2.5142967	5.99E-12	2.59E-10
ENSMUSG00000085151	1110018N20Rik	RIKEN cDNA 1110018N20 gene	-2.087286264	5.98E-12	2.59E-10
ENSMUSG00000091191	Gm17334	predicted gene, 17334	-2.787644857	6.02E-12	2.60E-10
ENSMUSG00000021835	Bmp4	bone morphogenetic protein 4	1.308807744	6.15E-12	2.65E-10
ENSMUSG00000006386	Tek	endothelial-specific receptor tyrosine kinase	-0.98279434	6.20E-12	2.67E-10
ENSMUSG00000030491	Tdrd12	tudor domain containing 12	-3.319722548	6.27E-12	2.69E-10

ENSMUSG00000020658	Efr3b	EFR3 homolog B (<i>S. cerevisiae</i>)	-0.963532823	6.29E-12	2.70E-10
ENSMUSG00000052459	Atp6v1a	ATPase, H+ transporting, lysosomal V1 subunit A	0.969568895	6.40E-12	2.74E-10
ENSMUSG00000025278	Flnb	filamin, beta	0.950326883	6.58E-12	2.81E-10
ENSMUSG00000034187	Nsf	N-ethylmaleimide sensitive fusion protein	0.980852981	6.60E-12	2.82E-10
ENSMUSG00000003178	Mical3	microtubule associated monoxygenase, calponin and LIM domain containing 3	-1.086964498	6.63E-12	2.82E-10
ENSMUSG00000050002	Idnk	idnK gluconokinase homolog (<i>E. coli</i>)	-1.115077406	6.62E-12	2.82E-10
ENSMUSG00000025758	Plk4	polo-like kinase 4	2.136055567	6.74E-12	2.86E-10
ENSMUSG00000083645	Gm14086	predicted gene 14086	-1.704185224	6.75E-12	2.86E-10
ENSMUSG00000024055	Cyp4f13	cytochrome P450, family 4, subfamily f, polypeptide 13	-1.286101941	6.87E-12	2.91E-10
ENSMUSG00000023015	Racgap1	Rac GTPase-activating protein 1	2.439533709	6.89E-12	2.91E-10
ENSMUSG00000070436	Serpinh1	serine (or cysteine) peptidase inhibitor, clade H, member 1	0.994010733	6.95E-12	2.94E-10
ENSMUSG00000056091	St3gal5	ST3 beta-galactoside alpha-2,3-sialyltransferase 5	1.148557106	7.21E-12	3.04E-10
ENSMUSG00000046856	Gpr1	G protein-coupled receptor 1	-4.211274579	7.21E-12	3.04E-10
ENSMUSG00000020186	Csrp2	cysteine and glycine-rich protein 2	1.039202308	7.28E-12	3.06E-10
ENSMUSG00000032812	Arap1	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1	-1.076531797	7.28E-12	3.06E-10
ENSMUSG00000030878	Cdr2	cerebellar degeneration-related 2	1.484894028	7.41E-12	3.10E-10
ENSMUSG00000027253	Lrp4	low density lipoprotein receptor-related protein 4	-1.313102194	7.49E-12	3.13E-10
ENSMUSG00000022818	Cyp2ab1	cytochrome P450, family 2, subfamily ab, polypeptide 1	-3.608679971	7.67E-12	3.21E-10
ENSMUSG00000051615	Rap2a	RAS related protein 2a	1.022549343	7.79E-12	3.25E-10
ENSMUSG00000030265	Kras	v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog	0.976181649	7.83E-12	3.26E-10
ENSMUSG00000032194	Kank2	KN motif and ankyrin repeat domains 2	-1.335283392	8.13E-12	3.38E-10
ENSMUSG00000031207	Msn	moesin	0.960472144	8.35E-12	3.47E-10
ENSMUSG00000029664	Tfpi2	tissue factor pathway inhibitor 2	1.178684483	8.38E-12	3.48E-10
ENSMUSG00000038065	Mturn	maturin, neural progenitor differentiation regulator homolog (<i>Xenopus</i>)	-1.137739533	8.48E-12	3.51E-10
ENSMUSG00000032064	Dixdc1	DIX domain containing 1	-2.345786163	8.53E-12	3.53E-10
ENSMUSG00000056367	Actr3b	ARP3 actin-related protein 3B	-1.952486501	8.61E-12	3.56E-10
ENSMUSG00000014496	Ankrd28	ankyrin repeat domain 28	1.560396353	8.72E-12	3.60E-10
ENSMUSG00000027635	Dsn1	DSN1, MIND kinetochore complex component, homolog (<i>S. cerevisiae</i>)	1.333069713	8.95E-12	3.69E-10
ENSMUSG00000029580	Actb	actin, beta	0.950957545	9.03E-12	3.71E-10
ENSMUSG00000030865	Chp2	calcineurin-like EF hand protein 2	-1.88947275	9.11E-12	3.74E-10
ENSMUSG00000005667	Mthfd2	methylenetetrahydrofolate dehydrogenase (NAD+ dependent), methylenetetrahydrofolate cyclohydrolase	2.465199731	9.30E-12	3.82E-10
ENSMUSG00000027712	Anxa5	annexin A5	0.95041151	9.36E-12	3.83E-10
ENSMUSG00000028671	Gale	galactose-4-epimerase, UDP	1.742490836	9.47E-12	3.87E-10
ENSMUSG00000040624	Plekhg1	pleckstrin homology domain containing, family G (with RhoGef domain) member 1	1.008721123	9.62E-12	3.93E-10
ENSMUSG00000001508	Sgca	sarcoglycan, alpha (dystrophin-associated glycoprotein)	-1.89078923	9.83E-12	4.01E-10
ENSMUSG00000041762	Gpr155	G protein-coupled receptor 155	-1.112676315	9.90E-12	4.03E-10
ENSMUSG00000028191	Bcl10	B cell leukemia/lymphoma 10	0.985325266	9.99E-12	4.06E-10
ENSMUSG00000020986	Sec23a	SEC23A (<i>S. cerevisiae</i>)	0.994193835	1.01E-11	4.11E-10
ENSMUSG00000005237	Dnah2	dynein, axonemal, heavy chain 2	-1.406304891	1.02E-11	4.12E-10
ENSMUSG00000005763	Cd247	CD247 antigen	-1.503370016	1.02E-11	4.14E-10
ENSMUSG00000048442	Smim5	small integral membrane protein 5	-2.179362166	1.02E-11	4.14E-10
ENSMUSG00000017692	Rhbd13	rhomboid, veinlet-like 3 (<i>Drosophila</i>)	-1.177811616	1.04E-11	4.20E-10
ENSMUSG00000025289	Prdx4	peroxiredoxin 4	1.036271031	1.06E-11	4.27E-10
ENSMUSG00000030020	Prickle2	prickle homolog 2 (<i>Drosophila</i>)	-1.058854373	1.06E-11	4.27E-10
ENSMUSG00000005220	Corin	corin	-2.008486099	1.07E-11	4.29E-10
ENSMUSG00000000732	Icosl	icos ligand	-1.143075612	1.08E-11	4.32E-10
ENSMUSG00000005523	Gucy2g	guanylate cyclase 2g	-2.203659251	1.09E-11	4.39E-10
ENSMUSG00000032607	Amt	aminomethyltransferase	-1.706934698	1.12E-11	4.47E-10
ENSMUSG000000056486	Chn1	chimerin 1	1.086376322	1.18E-11	4.72E-10
ENSMUSG00000015224	Cyp2j9	cytochrome P450, family 2, subfamily j, polypeptide 9	-1.149859241	1.22E-11	4.88E-10
ENSMUSG00000006403	Adamts4	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 4	2.414820666	1.22E-11	4.88E-10
ENSMUSG00000036923	Stox1	storkhead box 1	-1.31295095	1.27E-11	5.06E-10
ENSMUSG000000052854	Nrk	Nik related kinase	1.303650867	1.28E-11	5.07E-10
ENSMUSG00000047045	Tmem164	transmembrane protein 164	0.955029787	1.29E-11	5.10E-10
ENSMUSG00000026471	Mri1	major histocompatibility complex, class I-related	-1.131309905	1.29E-11	5.11E-10
ENSMUSG00000024664	Fads3	fatty acid desaturase 3	1.23299798	1.32E-11	5.24E-10
ENSMUSG00000002297	Dbf4	DBF4 homolog (<i>S. cerevisiae</i>)	1.601517123	1.38E-11	5.46E-10
ENSMUSG00000035891	Cerk	ceramide kinase	0.994150818	1.40E-11	5.51E-10
ENSMUSG00000048616	Nog	noggin	-4.72226845	1.40E-11	5.52E-10
ENSMUSG00000042408	Zmym6	zinc finger, MYM-type 6	-1.019126989	1.45E-11	5.69E-10
ENSMUSG00000021061	Sptb	spectrin beta, erythrocytic	-2.057946932	1.45E-11	5.69E-10
ENSMUSG00000042377	Fam83g	family with sequence similarity 83, member G	-1.606396116	1.46E-11	5.72E-10
ENSMUSG00000074218	Cox7a1	cytochrome c oxidase subunit VIIa 1	-1.415705458	1.53E-11	5.99E-10
ENSMUSG000000052921	Arhgef15	Rho guanine nucleotide exchange factor (GEF) 15	-0.962854855	1.54E-11	6.04E-10
ENSMUSG00000029364	Wsb2	WD repeat and SOCS box-containing 2	0.948902144	1.56E-11	6.10E-10
ENSMUSG00000026620	Mark1	MAP/microtubule affinity-regulating kinase 1	-1.102141532	1.57E-11	6.13E-10
ENSMUSG00000013236	Ptprs	protein tyrosine phosphatase, receptor type, S	-1.226956292	1.61E-11	6.28E-10
ENSMUSG00000018554	Ybx2	Y box protein 2	-3.020521452	1.63E-11	6.36E-10
ENSMUSG00000045165	Ai467606	expressed sequence Ai467606	-1.87008667	1.72E-11	6.67E-10
ENSMUSG00000031842	Pde4c	phosphodiesterase 4C, cAMP specific	-1.659461642	1.75E-11	6.77E-10
ENSMUSG00000031827	Cotl1	coactosin-like 1 (<i>Dictyostelium</i>)	1.176336509	1.77E-11	6.87E-10
ENSMUSG00000075266	Cenpw	centromere protein W	2.810101433	1.79E-11	6.92E-10
ENSMUSG00000061859	Inadl	InaD-like (<i>Drosophila</i>)	-1.740052223	1.79E-11	6.92E-10

ENSMUSG0000027469	Tpx2	TPX2, microtubule-associated protein homolog (Xenopus laevis)	2.794402753	1.80E-11	6.93E-10
ENSMUSG0000028637	Traf5	TNF receptor-associated factor 5	-1.220395277	1.82E-11	7.02E-10
ENSMUSG0000062929	Ctl2	cofilin 2, muscle	0.987641451	1.83E-11	7.04E-10
ENSMUSG0000046605	B3gnt1	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase-like 1	-1.184971055	1.85E-11	7.10E-10
ENSMUSG0000029186	Pi4k2b	phosphatidylinositol 4-kinase type 2 beta	1.100144567	1.96E-11	7.51E-10
ENSMUSG0000049804	Armxc4	armadillo repeat containing, X-linked 4	1.250071335	1.96E-11	7.52E-10
ENSMUSG0000028194	Ddah1	dimethylarginine dimethylaminohydrolase 1	1.185185648	1.97E-11	7.52E-10
ENSMUSG0000039395	Mreg	melanoregulin	-1.958944824	1.97E-11	7.52E-10
ENSMUSG0000071103	1700029J07Rik	RIKEN cDNA 1700029J07 gene	-1.782875439	1.97E-11	7.52E-10
ENSMUSG0000030403	Vasp	vasodilator-stimulated phosphoprotein	0.944838336	1.99E-11	7.57E-10
ENSMUSG0000001525	Tubb5	tubulin, beta 5 class I	0.967803186	2.00E-11	7.60E-10
ENSMUSG0000078486	Perm1	PPARGC1 and ESRR induced regulator, muscle 1	-2.188617554	2.01E-11	7.63E-10
ENSMUSG0000042286	Stab1	stabilin 1	1.213424245	2.07E-11	7.85E-10
ENSMUSG0000004996	Mri1	methylthioribose-1-phosphate isomerase homolog (S. cerevisiae)	-1.355079833	2.12E-11	8.03E-10
ENSMUSG00000051910	Sox6	SRY (sex determining region Y)-box 6	-1.558742043	2.13E-11	8.05E-10
ENSMUSG00000027699	Ect2	ect2 oncogene	2.628520245	2.19E-11	8.29E-10
ENSMUSG00000041329	Atp1b2	ATPase, Na+/K+ transporting, beta 2 polypeptide	-1.063630477	2.25E-11	8.48E-10
ENSMUSG00000025221	Kcnp2	Kv channel-interacting protein 2	-3.014369899	2.32E-11	8.76E-10
ENSMUSG00000097178	2310002F09Rik	RIKEN cDNA 2310002F09 gene	-3.075637602	2.35E-11	8.84E-10
ENSMUSG00000028175	Depdc1a	DEP domain containing 1a	3.29068064	2.39E-11	8.99E-10
ENSMUSG0000004849	Ap1s1	adaptor protein complex AP-1, sigma 1	1.041718342	2.41E-11	9.00E-10
ENSMUSG00000007815	Rhoa	ras homolog gene family, member A	0.956361505	2.40E-11	9.00E-10
ENSMUSG00000061244	Exoc5	exocyst complex component 5	0.954787118	2.41E-11	9.00E-10
ENSMUSG00000028656	Cap1	CAP, adenylate cyclase-associated protein 1 (yeast)	0.946601385	2.41E-11	9.00E-10
ENSMUSG0000042734	Ttc9	tetratricopeptide repeat domain 9	2.708325022	2.47E-11	9.21E-10
ENSMUSG00000019989	Enpp3	ectonucleotide pyrophosphatase/phosphodiesterase 3	-1.208006182	2.49E-11	9.30E-10
ENSMUSG00000020611	Gna13	guanine nucleotide binding protein, alpha 13	0.921378619	2.50E-11	9.31E-10
ENSMUSG00000024673	Ms4a1	membrane-spanning 4-domains, subfamily A, member 1	-1.800166638	2.50E-11	9.31E-10
ENSMUSG00000068452	Duox2	dual oxidase 2	-2.450184473	2.50E-11	9.31E-10
ENSMUSG00000089989	Flk3l	FMS-like tyrosine kinase 3 ligand	-1.263754294	2.53E-11	9.39E-10
ENSMUSG00000036151	Tm6sf2	transmembrane 6 superfamily member 2	-2.070698108	2.54E-11	9.42E-10
ENSMUSG00000060843	Ctnna3	catenin (cadherin associated protein), alpha 3	-1.747007618	2.56E-11	9.48E-10
ENSMUSG00000019846	Lama4	laminin, alpha 4	0.934120722	2.78E-11	1.03E-09
ENSMUSG00000035105	Egln3	egi-9 family hypoxia-inducible factor 3	2.221965504	2.81E-11	1.03E-09
ENSMUSG00000056612	Ppp1r14b	protein phosphatase 1, regulatory (inhibitor) subunit 14B	1.505936965	2.81E-11	1.03E-09
ENSMUSG00000035064	Eef2k	eukaryotic elongation factor-2 kinase	-1.262538136	2.81E-11	1.03E-09
ENSMUSG00000030849	Fgfr2	fibroblast growth factor receptor 2	1.696109171	2.87E-11	1.05E-09
ENSMUSG00000017167	Cntnap1	contactin associated protein-like 1	-1.350104839	2.99E-11	1.10E-09
ENSMUSG00000051627	Hist1h1e	histone cluster 1, H1e	1.127647016	3.01E-11	1.11E-09
ENSMUSG00000042675	Ypel3	yippee-like 3 (Drosophila)	-1.186239416	3.04E-11	1.11E-09
ENSMUSG00000050014	Apol10b	apolipoprotein L 10B	-1.104688562	3.12E-11	1.14E-09
ENSMUSG00000026779	Mastl	microtubule associated serine/threonine kinase-like	2.556872984	3.14E-11	1.15E-09
ENSMUSG00000051359	Ncald	neurocalcin delta	-1.197080923	3.14E-11	1.15E-09
ENSMUSG00000028278	Rragd	Ras-related GTP binding D	-1.181983195	3.17E-11	1.15E-09
ENSMUSG00000078490	C030017K20Rik	RIKEN cDNA C030017K20 gene	-1.596759904	3.18E-11	1.16E-09
ENSMUSG00000002308	Cd320	CD320 antigen	1.487243306	3.26E-11	1.18E-09
ENSMUSG00000078153	Psme2b	protease (prosome, macropain) activator subunit 2B	-1.432833543	3.30E-11	1.20E-09
ENSMUSG00000076441	Ass1	argininosuccinate synthetase 1	-2.060699143	3.38E-11	1.23E-09
ENSMUSG00000003476	Crh2	corticotropin releasing hormone receptor 2	-2.548158802	3.39E-11	1.23E-09
ENSMUSG00000002477	Snrpd1	small nuclear ribonucleoprotein D1	1.134787328	3.49E-11	1.26E-09
ENSMUSG00000035021	Baz1a	bromodomain adjacent to zinc finger domain 1A	0.983842917	3.50E-11	1.26E-09
ENSMUSG00000062980	Cped1	cadherin-like and PC-esterase domain containing 1	-1.009480942	3.59E-11	1.30E-09
ENSMUSG00000049241	Hcar1	hydrocarboxylic acid receptor 1	-1.970606204	3.65E-11	1.31E-09
ENSMUSG00000042684	Npl	N-acetylneuraminate pyruvate lyase	2.083119314	3.69E-11	1.33E-09
ENSMUSG00000032652	Crebl2	cAMP responsive element binding protein-like 2	-1.09663873	3.77E-11	1.35E-09
ENSMUSG00000085419	Gm11734	predicted gene 11734	-3.348951192	3.92E-11	1.41E-09
ENSMUSG00000064945	Rny3	RNA, Y3 small cytoplasmic (associated with Ro protein)	1.811325673	4.05E-11	1.45E-09
ENSMUSG00000028838	Extl1	exostosins (multiple)-like 1	-2.956584484	4.16E-11	1.49E-09
ENSMUSG00000024036	Slc37a1	solute carrier family 37 (glycerol-3-phosphate transporter), member 1	-1.879055247	4.18E-11	1.49E-09
ENSMUSG00000040724	Kcna2	potassium voltage-gated channel, shaker-related subfamily, member 2	-2.368992254	4.27E-11	1.53E-09
ENSMUSG00000046449	C77370	expressed sequence C77370	1.307689823	4.33E-11	1.54E-09
ENSMUSG00000029171	Pgm1	phosphoglucomutase 1	0.958308939	4.41E-11	1.57E-09
ENSMUSG00000020718	Polg2	polymerase (DNA directed), gamma 2, accessory subunit	-1.069157014	4.45E-11	1.58E-09
ENSMUSG00000019124	Scrn1	secernin 1	-1.456172601	4.52E-11	1.60E-09
ENSMUSG00000011658	Fuz	fuzzy homolog (Drosophila)	-1.172771848	4.62E-11	1.64E-09
ENSMUSG00000010797	Wnt2	wingless-type MMTV integration site family, member 2	-2.332803027	4.62E-11	1.64E-09
ENSMUSG00000041189	Chrn1	cholinergic receptor, nicotinic, beta polypeptide 1 (muscle)	0.971481977	4.64E-11	1.64E-09
ENSMUSG00000024059	Clip4	CAP-GLY domain containing linker protein family, member 4	-1.768878546	4.73E-11	1.67E-09
ENSMUSG00000041238	Rbbp8	retinoblastoma binding protein 8	1.00401148	5.00E-11	1.77E-09
ENSMUSG00000028480	Glpr2	GLI pathogenesis-related 2	3.113528445	5.36E-11	1.89E-09
ENSMUSG00000040752	Myh6	myosin, heavy polypeptide 6, cardiac muscle, alpha	-2.590258856	5.41E-11	1.90E-09
ENSMUSG00000033024	Klra9	killer cell lectin-like receptor subfamily A, member 9	-1.910699448	5.53E-11	1.94E-09
ENSMUSG00000097493	9930014A18Rik	RIKEN cDNA 9930014A18 gene	-1.106964034	5.64E-11	1.98E-09

ENSMUSG00000041920	Slc16a6	solute carrier family 16 (monocarboxylic acid transporters), member 6	2.830717228	5.79E-11	2.03E-09
ENSMUSG00000047497	Adamts12	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 12	2.13040734	5.94E-11	2.08E-09
ENSMUSG00000064168	Hist1h2bh	histone cluster 1, H2bh	2.724974501	5.97E-11	2.09E-09
ENSMUSG00000031490	Eif4ebp1	eukaryotic translation initiation factor 4E binding protein 1	1.30042294	6.02E-11	2.10E-09
ENSMUSG00000028125	Abca4	ATP-binding cassette, sub-family A (ABC1), member 4	1.728767892	6.07E-11	2.11E-09
ENSMUSG00000037601	Nme1	NME/NM23 nucleoside diphosphate kinase 1	1.104338897	6.06E-11	2.11E-09
ENSMUSG00000022383	Ppara	peroxisome proliferator activated receptor alpha	-2.180977145	6.10E-11	2.12E-09
ENSMUSG00000020328	Nudcd2	NudC domain containing 2	1.13811512	6.14E-11	2.13E-09
ENSMUSG00000042460	C1gal1	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1	0.989832616	6.34E-11	2.20E-09
ENSMUSG00000027073	Prq2	proteoglycan 2, bone marrow	3.131563277	6.54E-11	2.27E-09
ENSMUSG00000030986	Dhx32	DEAH (Asp-Glu-Ala-His) box polypeptide 32	1.09614934	6.83E-11	2.37E-09
ENSMUSG00000096146	Kcnj11	potassium inwardly rectifying channel, subfamily J, member 11	-2.345456389	6.96E-11	2.41E-09
ENSMUSG00000020250	Txnrd1	thioredoxin reductase 1	0.947403859	6.99E-11	2.42E-09
ENSMUSG00000003849	Nqo1	NAD(P)H dehydrogenase, quinone 1	-1.18713364	7.02E-11	2.42E-09
ENSMUSG00000025656	Arhgef9	CDC42 guanine nucleotide exchange factor (GEF) 9	-1.095660522	7.03E-11	2.42E-09
ENSMUSG00000006095	Tbcb	tubulin folding cofactor B	0.997330443	7.07E-11	2.43E-09
ENSMUSG00000006677	Pydc3	pyrin domain containing 3	-1.351450618	7.07E-11	2.43E-09
ENSMUSG00000046818	Ddit4l	DNA-damage-inducible transcript 4-like	-1.39474033	7.09E-11	2.43E-09
ENSMUSG00000040181	Fmo1	flavin containing monooxygenase 1	-0.957769526	7.16E-11	2.46E-09
ENSMUSG00000005789	Bak1	BCL2-antagonist/killer 1	0.972765226	7.22E-11	2.47E-09
ENSMUSG00000027474	Ccm2l	cerebral cavernous malformation 2-like	-1.257409646	7.27E-11	2.49E-09
ENSMUSG00000020475	Pgam2	phosphoglycerate mutase 2	-1.542833614	7.29E-11	2.49E-09
ENSMUSG00000050936	Hist2h2bb	histone cluster 2, H2bb	1.803522917	7.33E-11	2.50E-09
ENSMUSG00000028007	Snx7	sorting nexin 7	1.033434088	7.37E-11	2.51E-09
ENSMUSG00000020808	Fam64a	family with sequence similarity 64, member A	2.626695459	7.52E-11	2.56E-09
ENSMUSG00000048285	Frdm6	FERM domain containing 6	0.986541625	7.53E-11	2.56E-09
ENSMUSG00000015579	Nkx2-5	NK2 homeobox 5	-3.38636673	7.53E-11	2.56E-09
ENSMUSG00000006611	Hfe	hemochromatosis	-0.979861539	7.65E-11	2.60E-09
ENSMUSG00000027377	Mall	mal, T cell differentiation protein-like	0.982771099	7.76E-11	2.63E-09
ENSMUSG00000026981	Il1rn	interleukin 1 receptor antagonist	2.382236467	7.85E-11	2.66E-09
ENSMUSG00000021219	Rgs6	regulator of G-protein signaling 6	-1.353427311	7.86E-11	2.66E-09
ENSMUSG00000031871	Cdh5	cadherin 5	0.892006815	7.91E-11	2.67E-09
ENSMUSG00000015217	Hmgb3	high mobility group box 3	1.853452007	8.17E-11	2.75E-09
ENSMUSG00000031137	Fgf13	fibroblast growth factor 13	-2.331723911	8.17E-11	2.75E-09
ENSMUSG00000030862	Cpxm2	carboxypeptidase X 2 (M14 family)	-1.233489561	8.22E-11	2.77E-09
ENSMUSG00000004451	Ralb	v-ral simian leukemia viral oncogene homolog B (ras related)	0.927444494	8.43E-11	2.83E-09
ENSMUSG00000038132	Rbm24	RNA binding motif protein 24	-1.794779819	8.55E-11	2.87E-09
ENSMUSG000000050503	Fbxl22	F-box and leucine-rich repeat protein 22	-1.223770377	8.83E-11	2.96E-09
ENSMUSG00000024063	Lbh	limb-bud and heart	-0.903012123	9.22E-11	3.09E-09
ENSMUSG00000039234	Sec24d	Sec24 related gene family, member D (S. cerevisiae)	0.927426141	9.42E-11	3.15E-09
ENSMUSG00000021898	Asb14	ankyrin repeat and SOCS box-containing 14	-2.674207732	9.72E-11	3.25E-09
ENSMUSG00000067212	H2-T23	histocompatibility 2, T region locus 23	-1.928503937	9.84E-11	3.28E-09
ENSMUSG00000029253	Cenpc1	centromere protein C1	1.067155356	1.01E-10	3.36E-09
ENSMUSG00000020814	Mxra7	matrix-remodelling associated 7	0.960899132	1.03E-10	3.44E-09
ENSMUSG00000017716	Birc5	baculoviral IAP repeat-containing 5	2.840875591	1.03E-10	3.44E-09
ENSMUSG00000028896	Rcc1	regulator of chromosome condensation 1	1.116792052	1.06E-10	3.51E-09
ENSMUSG00000063229	Ldha	lactate dehydrogenase A	0.901755606	1.07E-10	3.54E-09
ENSMUSG00000076437	2700094K13Rik	RIKEN cDNA 2700094K13 gene	1.307887688	1.08E-10	3.57E-09
ENSMUSG00000044737	Klk14	kallikrein related-peptidase 14	-4.797784016	1.09E-10	3.62E-09
ENSMUSG00000035824	Tk2	thymidine kinase 2, mitochondrial	-1.145802277	1.10E-10	3.63E-09
ENSMUSG00000066150	Slc31a1	solute carrier family 31, member 1	1.085926805	1.11E-10	3.66E-09
ENSMUSG00000053263	Gm12592	predicted gene 12592	-2.50837026	1.12E-10	3.70E-09
ENSMUSG00000022205	Sub1	SUB1 homolog (S. cerevisiae)	0.947978839	1.14E-10	3.74E-09
ENSMUSG00000041084	Ostc	oligosaccharyltransferase complex subunit	0.986817611	1.16E-10	3.81E-09
ENSMUSG00000021965	Ska3	spindle and kinetochore associated complex subunit 3	2.863275916	1.19E-10	3.93E-09
ENSMUSG00000040010	Slc7a5	solute carrier family 7 (cationic amino acid transporter, y+ system), member 5	2.613029151	1.21E-10	3.97E-09
ENSMUSG00000093930	Hmgcs1	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1	0.978175402	1.21E-10	3.98E-09
ENSMUSG00000022358	Fbxo32	F-box protein 32	-1.018245459	1.22E-10	3.99E-09
ENSMUSG00000038077	Kcna6	potassium voltage-gated channel, shaker-related, subfamily, member 6	-1.855905804	1.26E-10	4.11E-09
ENSMUSG00000042810	Krba1	KRAB-A domain containing 1	-1.895367248	1.26E-10	4.12E-09
ENSMUSG00000089829	Gm16565	predicted gene 16565	-1.824254369	1.29E-10	4.20E-09
ENSMUSG00000020897	Aurkb	aurora kinase B	2.788166516	1.30E-10	4.25E-09
ENSMUSG00000022951	Rcan1	regulator of calcineurin 1	0.899693737	1.33E-10	4.32E-09
ENSMUSG00000030137	Tuba8	tubulin, alpha 8	-2.00664028	1.33E-10	4.33E-09
ENSMUSG00000097828	6430562O15Rik	RIKEN cDNA 6430562O15 gene	1.664001092	1.34E-10	4.35E-09
ENSMUSG00000038555	Reep2	receptor accessory protein 2	1.496958325	1.35E-10	4.38E-09
ENSMUSG00000030245	Golt1b	golgi transport 1 homolog B (S. cerevisiae)	1.000853648	1.36E-10	4.41E-09
ENSMUSG00000001493	Meox1	mesenchyme homeobox 1	0.954913937	1.37E-10	4.43E-09
ENSMUSG00000034842	Art3	ADP-ribosyltransferase 3	-0.952130177	1.38E-10	4.46E-09
ENSMUSG00000037172	E330009J07Rik	RIKEN cDNA E330009J07 gene	-1.055230097	1.39E-10	4.49E-09
ENSMUSG00000000317	Bcl6b	B cell CLL/lymphoma 6, member B	0.895159696	1.45E-10	4.66E-09
ENSMUSG00000024011	Pi16	peptidase inhibitor 16	-1.841083486	1.48E-10	4.76E-09
ENSMUSG00000029840	Mtpn	myotrophin	0.921438809	1.48E-10	4.76E-09

ENSMUSG00000071713	Csf2rb	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)	1.285595783	1.50E-10	4.83E-09
ENSMUSG00000020493	Prr11	proline rich 11	2.810563992	1.54E-10	4.94E-09
ENSMUSG00000020267	Hint1	histidine triad nucleotide binding protein 1	0.936939003	1.54E-10	4.95E-09
ENSMUSG00000071176	Arhgef10	Rho guanine nucleotide exchange factor (GEF) 10	-0.974722632	1.55E-10	4.96E-09
ENSMUSG00000026873	Phf19	PHD finger protein 19	1.507917399	1.58E-10	5.06E-09
ENSMUSG00000027955	Fam198b	family with sequence similarity 198, member B	0.924063398	1.59E-10	5.09E-09
ENSMUSG00000096549	Prickle4	prickle homolog 4 (Drosophila)	-3.048268916	1.59E-10	5.09E-09
ENSMUSG00000038725	Pkhd11i	polycystic kidney and hepatic disease 1-like 1	-2.092351896	1.60E-10	5.10E-09
ENSMUSG00000039286	Fndc3b	fibronectin type III domain containing 3B	0.900687561	1.60E-10	5.11E-09
ENSMUSG00000034349	Smc4	structural maintenance of chromosomes 4	1.374209357	1.63E-10	5.19E-09
ENSMUSG00000001517	Foxm1	forkhead box M1	2.293709476	1.65E-10	5.26E-09
ENSMUSG00000037410	Tbc1d2b	TBC1 domain family, member 2B	-0.938187401	1.73E-10	5.48E-09
ENSMUSG00000030748	Il4ra	interleukin 4 receptor, alpha	1.00200333	1.78E-10	5.63E-09
ENSMUSG00000047368	Abhd17b	abhydrolase domain containing 17B	0.941198719	1.78E-10	5.63E-09
ENSMUSG00000020758	Itgb4	integrin beta 4	-2.180451876	1.78E-10	5.63E-09
ENSMUSG00000025558	Dock9	dedicator of cytokinesis 9	-0.945123019	1.80E-10	5.69E-09
ENSMUSG00000032501	Trib1	tribbles homolog 1 (Drosophila)	1.753648116	1.80E-10	5.69E-09
ENSMUSG00000036620	Mgat4b	mannoside acetylglucosaminyltransferase 4, isoenzyme B	0.916997396	1.84E-10	5.80E-09
ENSMUSG00000030170	Wnt5b	wingless-type MMTV integration site family, member 5B	-1.693778495	1.84E-10	5.80E-09
ENSMUSG00000025270	Alas2	aminolevulinic acid synthase 2, erythroid	-2.072773907	1.85E-10	5.81E-09
ENSMUSG00000054728	Phactr1	phosphatase and actin regulator 1	-1.024181979	1.85E-10	5.82E-09
ENSMUSG00000097317	Gm17281	predicted gene, 17281	-2.506860428	1.85E-10	5.82E-09
ENSMUSG00000038173	Enpp6	ectonucleotide pyrophosphatase/phosphodiesterase 6	2.083065914	1.86E-10	5.84E-09
ENSMUSG00000026278	Bok	BCL2-related ovarian killer	1.026486261	1.86E-10	5.84E-09
ENSMUSG00000052374	Actn2	actinin alpha 2	-1.781107017	1.89E-10	5.91E-09
ENSMUSG00000032290	Ptpn9	protein tyrosine phosphatase, non-receptor type 9	1.133932077	1.91E-10	5.96E-09
ENSMUSG00000020048	Hsp90b1	heat shock protein 90, beta (Grp94), member 1	0.991368887	1.97E-10	6.16E-09
ENSMUSG00000025613	Cct8	chaperonin containing Tcp1, subunit 8 (theta)	0.946827795	1.98E-10	6.17E-09
ENSMUSG000000051669	AU021092	expressed sequence AU021092	-1.595302036	1.98E-10	6.17E-09
ENSMUSG00000079457	Gm7609	predicted pseudogene 7609	-1.894910964	1.98E-10	6.17E-09
ENSMUSG00000038252	Ncapd2	non-SMC condensin I complex, subunit D2	1.642870987	2.01E-10	6.25E-09
ENSMUSG00000030255	Sspn	sarcospan	-1.034272142	2.01E-10	6.25E-09
ENSMUSG00000024066	Xdh	xanthine dehydrogenase	-2.450570194	2.03E-10	6.29E-09
ENSMUSG00000052305	Hbb-bs	hemoglobin, beta adult s chain	-2.00372718	2.03E-10	6.29E-09
ENSMUSG00000063524	Eno1	enolase 1, alpha non-neuron	0.964136734	2.04E-10	6.33E-09
ENSMUSG00000044086	Lmod3	leiomodrin 3 (fetal)	-2.290645655	2.06E-10	6.36E-09
ENSMUSG00000021373	Cap2	CAP, adenylate cyclase-associated protein, 2 (yeast)	-1.000292127	2.06E-10	6.37E-09
ENSMUSG00000030978	Rrm1	ribonucleotide reductase M1	1.237454945	2.17E-10	6.68E-09
ENSMUSG00000097324	Mir143hg	Mir143 and Mir145 host gene (non-coding RNA)	-1.819326869	2.28E-10	7.03E-09
ENSMUSG00000024049	Myom1	myomesin 1	-1.26115061	2.30E-10	7.07E-09
ENSMUSG00000038481	Cdk19	cyclin-dependent kinase 19	-0.902038254	2.34E-10	7.20E-09
ENSMUSG00000024542	Cep192	centrosomal protein 192	0.960443407	2.40E-10	7.36E-09
ENSMUSG00000021573	Tppp	tubulin polymerization promoting protein	0.926802742	2.40E-10	7.36E-09
ENSMUSG00000060147	Serpinb6a	serine (or cysteine) peptidase inhibitor, clade B, member 6a	0.884520848	2.42E-10	7.43E-09
ENSMUSG00000021486	Prelid1	PRELI domain containing 1	1.330619253	2.46E-10	7.52E-09
ENSMUSG00000038239	Hrc	histidine rich calcium binding protein	-2.006215271	2.52E-10	7.72E-09
ENSMUSG00000073680	Tmem88b	transmembrane protein 88B	2.108257909	2.60E-10	7.94E-09
ENSMUSG00000000555	Itga5	integrin alpha 5 (fibronectin receptor alpha)	1.982714155	2.64E-10	8.04E-09
ENSMUSG00000029333	Rasgef1b	RasGEF domain family, member 1B	0.955329071	2.65E-10	8.08E-09
ENSMUSG00000060187	Lrrc10	leucine rich repeat containing 10	-2.496928373	2.69E-10	8.19E-09
ENSMUSG000000404952	Rasa4	RAS p21 protein activator 4	-1.900412509	2.71E-10	8.25E-09
ENSMUSG00000031799	Tpm4	tropomyosin 4	0.904282498	2.74E-10	8.32E-09
ENSMUSG00000031119	Gpc4	glypican 4	1.032698097	2.76E-10	8.39E-09
ENSMUSG00000026750	Psmb7	proteasome (prosome, macropain) subunit, beta type 7	0.937119139	2.78E-10	8.42E-09
ENSMUSG00000015027	Galns	galactosamine (N-acetyl)-6-sulfate sulfatase	2.270533913	2.80E-10	8.47E-09
ENSMUSG00000050052	Tdrp	testis development related protein	-1.000083348	2.81E-10	8.49E-09
ENSMUSG00000034024	Cct2	chaperonin containing Tcp1, subunit 2 (beta)	0.903997208	2.85E-10	8.61E-09
ENSMUSG00000049792	Bag5	BCL2-associated athanogene 5	-1.018081235	2.94E-10	8.87E-09
ENSMUSG00000054693	Adam10	a disintegrin and metallopeptidase domain 10	0.90612707	2.97E-10	8.95E-09
ENSMUSG00000026193	Fn1	fibronectin 1	0.858826286	3.04E-10	9.16E-09
ENSMUSG00000070372	Capza1	capping protein (actin filament) muscle Z-line, alpha 1	1.006452931	3.07E-10	9.24E-09
ENSMUSG00000019235	Rps6kl1	ribosomal protein S6 kinase-like 1	-1.83034702	3.12E-10	9.39E-09
ENSMUSG00000045777	Ifitm10	interferon induced transmembrane protein 10	-2.467533282	3.18E-10	9.54E-09
ENSMUSG00000043391	2510009E07Rik	RIKEN cDNA 2510009E07 gene	0.917866017	3.21E-10	9.60E-09
ENSMUSG00000038244	Mical2	microtubule associated monooxygenase, calponin and LIM domain containing 2	0.882734171	3.21E-10	9.60E-09
ENSMUSG00000051396	Hspa14	heat shock protein 14	0.882820247	3.24E-10	9.71E-09
ENSMUSG00000021477	Ctsl	cathepsin L	1.053756211	3.25E-10	9.73E-09
ENSMUSG00000026888	Grb14	growth factor receptor bound protein 14	-2.219641595	3.30E-10	9.86E-09
ENSMUSG00000032014	Oaf	OAF homolog (Drosophila)	1.622241001	3.39E-10	1.01E-08
ENSMUSG000000051790	Nlgn2	neuroligin 2	0.925434686	3.40E-10	1.01E-08
ENSMUSG00000026605	Cenpf	centromere protein F	2.581412735	3.43E-10	1.02E-08
ENSMUSG00000092203	1110038B12Rik	RIKEN cDNA 1110038B12 gene	-1.564968629	3.61E-10	1.07E-08
ENSMUSG00000022021	Diap3	diaphanous homolog 3 (Drosophila)	2.719652348	3.61E-10	1.07E-08

ENSMUSG00000041355	Ssr2	signal sequence receptor, beta	0.921735021	3.62E-10	1.08E-08
ENSMUSG00000099931	Gm29358	predicted gene 29358	-1.442287986	3.63E-10	1.08E-08
ENSMUSG00000025241	Fyc01	FYVE and coiled-coil domain containing 1	-0.934006323	3.64E-10	1.08E-08
ENSMUSG00000050989	Sepn1	selenoprotein N, 1	0.906357502	3.73E-10	1.10E-08
ENSMUSG00000065820	Gm26316	predicted gene, 26316	2.272013122	3.76E-10	1.11E-08
ENSMUSG00000034127	Tspan8	tetraspanin 8	1.286247774	3.79E-10	1.12E-08
ENSMUSG00000032374	Plod2	procollagen lysine, 2-oxoglutarate 5-dioxygenase 2	1.006141965	3.82E-10	1.13E-08
ENSMUSG00000044067	Gpr22	G protein-coupled receptor 22	-2.327062145	3.87E-10	1.14E-08
ENSMUSG00000047407	Tgfb1	TGFB-induced factor homeobox 1	0.921931401	3.99E-10	1.17E-08
ENSMUSG00000027579	Srms	src-related kinase lacking C-terminal regulatory tyrosine and N-terminal myristylation sites	-1.686879932	3.99E-10	1.17E-08
ENSMUSG00000059741	Myf3	myosin, light polypeptide 3	-1.577362476	3.99E-10	1.17E-08
ENSMUSG00000034295	Fhod3	formin homology 2 domain containing 3	-2.194099916	4.00E-10	1.17E-08
ENSMUSG00000079465	Col4a3	collagen, type IV, alpha 3	-1.151179645	4.01E-10	1.18E-08
ENSMUSG00000034593	Myo5a	myosin VA	0.995472024	4.02E-10	1.18E-08
ENSMUSG00000031734	Irx3	Iroquois related homeobox 3	-1.967936007	4.05E-10	1.19E-08
ENSMUSG00000034329	Brip1	BRCA1 interacting protein C-terminal helicase 1	1.434203811	4.06E-10	1.19E-08
ENSMUSG00000022537	Tmem44	transmembrane protein 44	-0.927065514	4.06E-10	1.19E-08
ENSMUSG00000041879	Ipo9	importin 9	0.918967103	4.07E-10	1.19E-08
ENSMUSG00000099065	Gm19980	predicted gene, 19980	-1.899310523	4.09E-10	1.19E-08
ENSMUSG00000030157	Clec2d	C-type lectin domain family 2, member d	-0.960770928	4.16E-10	1.21E-08
ENSMUSG00000000359	Rem1	rad and gem related GTP binding protein 1	-1.484884735	4.18E-10	1.21E-08
ENSMUSG00000023456	Tpi1	triosephosphate isomerase 1	1.145214794	4.23E-10	1.23E-08
ENSMUSG00000029447	Cct6a	chaperonin containing Tcp1, subunit 6a (zeta)	0.918923859	4.35E-10	1.26E-08
ENSMUSG00000073555	Gm4951	predicted gene 4951	-3.257503593	4.46E-10	1.29E-08
ENSMUSG00000097284	4930480K23Rik	RIKEN cDNA 4930480K23 gene	-1.716713415	4.52E-10	1.31E-08
ENSMUSG00000038759	Nup205	nucleoporin 205	0.942814758	4.59E-10	1.33E-08
ENSMUSG00000020142	Slc1a4	solute carrier family 1 (glutamate/neutral amino acid transporter), member 4	1.355459968	4.75E-10	1.37E-08
ENSMUSG00000085705	Gm16046	predicted gene 16046	-1.208435621	4.82E-10	1.39E-08
ENSMUSG00000096952	Gm26572	predicted gene, 26572	-1.637532698	4.89E-10	1.41E-08
ENSMUSG00000073599	Escr	endothelial cell surface expressed chemotaxis and apoptosis regulator	0.882921011	4.93E-10	1.42E-08
ENSMUSG00000028517	Ppap2b	phosphatidic acid phosphatase type 2B	-0.911306193	5.14E-10	1.48E-08
ENSMUSG00000058013	11-Sep	septin 11	0.893052534	5.17E-10	1.49E-08
ENSMUSG00000074361	C5ar2	complement component 5a receptor 2	-1.863375406	5.25E-10	1.51E-08
ENSMUSG00000021190	Lgmn	legumain	1.257164738	5.28E-10	1.51E-08
ENSMUSG00000038295	Atg9b	autophagy related 9B	-1.397194634	5.39E-10	1.54E-08
ENSMUSG00000015843	Rxrg	retinoid X receptor gamma	-2.032495232	5.45E-10	1.56E-08
ENSMUSG00000011179	Odc1	ornithine decarboxylase, structural 1	1.149059551	5.51E-10	1.57E-08
ENSMUSG00000025130	P4hb	prolyl 4-hydroxylase, beta polypeptide	0.876975945	5.61E-10	1.60E-08
ENSMUSG00000037458	Azin1	antizyme inhibitor 1	0.885802256	5.71E-10	1.63E-08
ENSMUSG00000037490	Slc2a12	solute carrier family 2 (facilitated glucose transporter), member 12	-1.925086957	5.87E-10	1.67E-08
ENSMUSG00000039347	Atp6v0e2	ATPase, H+ transporting, lysosomal V0 subunit E2	-1.281042733	5.96E-10	1.70E-08
ENSMUSG00000019814	Ltv1	LTV1 homolog (S. cerevisiae)	1.03815807	6.06E-10	1.72E-08
ENSMUSG00000021218	Gdi2	guanosine diphosphate (GDP) dissociation inhibitor 2	0.865782863	6.08E-10	1.73E-08
ENSMUSG00000005575	Ube2m	ubiquitin-conjugating enzyme E2M	0.902693612	6.12E-10	1.74E-08
ENSMUSG00000048852	Gm12185	predicted gene 12185	-1.517822599	6.20E-10	1.76E-08
ENSMUSG00000036918	Ttc7	tetratricopeptide repeat domain 7	-1.169729907	6.36E-10	1.80E-08
ENSMUSG00000033107	Rnf125	ring finger protein 125	1.461666086	6.38E-10	1.81E-08
ENSMUSG00000034949	Zfr2	zinc finger RNA binding protein 2	-1.96278762	6.39E-10	1.81E-08
ENSMUSG00000057604	Lmcd1	LIM and cysteine-rich domains 1	-1.018139388	6.54E-10	1.85E-08
ENSMUSG00000022322	Shcbp1	Shc SH2-domain binding protein 1	3.055594293	6.60E-10	1.86E-08
ENSMUSG00000094840	A630081J09Rik	RIKEN cDNA A630081J09 gene	-2.814887112	6.64E-10	1.87E-08
ENSMUSG00000028773	Fabp3	fatty acid binding protein 3, muscle and heart	-1.523342399	6.73E-10	1.90E-08
ENSMUSG00000034463	Scara3	scavenger receptor class A, member 3	1.047358369	6.79E-10	1.91E-08
ENSMUSG00000072770	Acrbp	proacrosin binding protein	-1.368151936	6.83E-10	1.92E-08
ENSMUSG00000068039	Tcp1	t-complex protein 1	0.901780779	6.93E-10	1.94E-08
ENSMUSG00000026610	Esrrg	estrogen-related receptor gamma	-2.023332294	6.93E-10	1.94E-08
ENSMUSG00000031958	Ldhd	lactate dehydrogenase D	-2.235531143	7.01E-10	1.96E-08
ENSMUSG00000015134	Aldh1a3	aldehyde dehydrogenase family 1, subfamily A3	1.573986266	7.10E-10	1.99E-08
ENSMUSG00000026558	Uck2	uridine-cytidine kinase 2	0.953644275	7.26E-10	2.03E-08
ENSMUSG00000033849	B3galt2	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2	-2.275097139	7.41E-10	2.07E-08
ENSMUSG00000001247	Lsr	lipolysis stimulated lipoprotein receptor	-1.930585635	7.57E-10	2.11E-08
ENSMUSG00000038807	Rap1gap2	RAP1 GTPase activating protein 2	-1.307409333	7.67E-10	2.14E-08
ENSMUSG00000033538	Casp4	caspase 4, apoptosis-related cysteine peptidase	0.908762322	7.69E-10	2.14E-08
ENSMUSG00000096917	2500002B13Rik	RIKEN cDNA 2500002B13 gene	-1.464084454	7.70E-10	2.14E-08
ENSMUSG00000028771	Ptpn12	protein tyrosine phosphatase, non-receptor type 12	0.843570075	7.73E-10	2.15E-08
ENSMUSG00000037411	Serpine1	serine (or cysteine) peptidase inhibitor, clade E, member 1	2.968612577	7.75E-10	2.15E-08
ENSMUSG00000002109	Ddb2	damage specific DNA binding protein 2	-1.177107884	7.80E-10	2.16E-08
ENSMUSG00000030704	Rab6a	RAB6A, member RAS oncogene family	0.859605879	7.92E-10	2.20E-08
ENSMUSG00000051950	B3gltc	beta-3-glucosyltransferase	1.022754353	7.96E-10	2.20E-08
ENSMUSG00000047394	Odf3b	outer dense fiber of sperm tails 3B	-2.229941017	7.97E-10	2.20E-08
ENSMUSG00000002500	Rpl3l	ribosomal protein L3-like	-2.635601514	7.97E-10	2.20E-08
ENSMUSG00000032667	Pon2	paraoxonase 2	0.888256703	8.01E-10	2.21E-08
ENSMUSG00000033031	C330027C09Rik	RIKEN cDNA C330027C09 gene	2.55952052	8.02E-10	2.21E-08

ENSMUSG00000062901	Klhl24	kelch-like 24	-0.860407183	8.09E-10	2.23E-08
ENSMUSG00000081534	Slc48a1	solute carrier family 48 (heme transporter), member 1	-0.970197431	8.15E-10	2.24E-08
ENSMUSG00000072621	Slfn10-ps	schlafen 10, pseudogene	1.449864901	8.30E-10	2.28E-08
ENSMUSG00000026049	Tex30	testis expressed 30	1.170980033	8.72E-10	2.40E-08
ENSMUSG00000027583	Zbtb46	zinc finger and BTB domain containing 46	-0.842504424	8.75E-10	2.40E-08
ENSMUSG00000000958	Slc7a7	solute carrier family 7 (cationic amino acid transporter, y+ system), member 7	1.040172255	8.86E-10	2.43E-08
ENSMUSG00000026495	Efcab2	EF-hand calcium binding domain 2	-1.396196143	8.88E-10	2.43E-08
ENSMUSG00000029851	Fam115c	family with sequence similarity 115, member C	0.9490819	9.19E-10	2.52E-08
ENSMUSG00000075010	AW112010	expressed sequence AW112010	-1.029283331	9.21E-10	2.52E-08
ENSMUSG00000068874	Selenbp1	selenium binding protein 1	-1.495210655	9.27E-10	2.53E-08
ENSMUSG00000000197	Nalcn	sodium leak channel, non-selective	-2.030379734	9.30E-10	2.54E-08
ENSMUSG00000057969	Sema3b	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3B	-1.518825812	9.33E-10	2.54E-08
ENSMUSG00000032458	Copb2	coatamer protein complex, subunit beta 2 (beta prime)	0.898511251	9.45E-10	2.57E-08
ENSMUSG00000038777	Sema6c	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6C	-1.634475605	9.45E-10	2.57E-08
ENSMUSG00000040653	Ppp1r14c	protein phosphatase 1, regulatory (inhibitor) subunit 14c	-1.570700683	9.54E-10	2.59E-08
ENSMUSG00000011263	Exoc3l2	exocyst complex component 3-like 2	-1.607989407	9.60E-10	2.61E-08
ENSMUSG00000024978	Gpam	glycerol-3-phosphate acyltransferase, mitochondrial	-0.970580161	9.71E-10	2.64E-08
ENSMUSG00000047180	Neur13	neuronalized homolog 3 homolog (Drosophila)	0.971394391	9.87E-10	2.68E-08
ENSMUSG00000014867	Surf4	surfeit gene 4	0.864068063	1.04E-09	2.81E-08
ENSMUSG00000024556	Me2	malic enzyme 2, NAD(+)-dependent, mitochondrial	0.982309694	1.04E-09	2.82E-08
ENSMUSG00000002007	Srpk3	serine/arginine-rich protein specific kinase 3	-2.33676121	1.05E-09	2.83E-08
ENSMUSG00000041921	Metap1d	methionyl aminopeptidase type 1D (mitochondrial)	-0.961059733	1.07E-09	2.89E-08
ENSMUSG00000012819	Cdh23	cadherin 23 (otocadherin)	-1.284634535	1.10E-09	2.98E-08
ENSMUSG00000023328	Ache	acetylcholinesterase	-1.654013481	1.12E-09	3.02E-08
ENSMUSG00000032294	Pkm	pyruvate kinase, muscle	1.391085775	1.15E-09	3.09E-08
ENSMUSG00000030562	Nox4	NADPH oxidase 4	1.392418302	1.18E-09	3.17E-08
ENSMUSG00000029359	Tesc	tescalcin	-1.753213633	1.20E-09	3.24E-08
ENSMUSG00000030587	2200002D01Rik	RIKEN cDNA 2200002D01 gene	1.613504989	1.23E-09	3.29E-08
ENSMUSG00000000149	Gna12	guanine nucleotide binding protein, alpha 12	0.848800046	1.23E-09	3.30E-08
ENSMUSG00000034723	Tmx4	thioredoxin-related transmembrane protein 4	0.858891448	1.27E-09	3.39E-08
ENSMUSG000000022941	Ripply3	rippy3 homolog (zebrafish)	-0.916222277	1.27E-09	3.40E-08
ENSMUSG00000022678	Nde1	nuclear distribution gene E homolog 1 (A nidulans)	0.86167751	1.27E-09	3.41E-08
ENSMUSG00000042251	Pm20d1	peptidase M20 domain containing 1	-2.776102827	1.30E-09	3.47E-08
ENSMUSG00000018217	Pmp22	peripheral myelin protein 22	0.90621039	1.31E-09	3.48E-08
ENSMUSG00000036777	Anln	anillin, actin binding protein	2.740399824	1.34E-09	3.58E-08
ENSMUSG00000028587	Orc1	origin recognition complex, subunit 1	2.048956402	1.39E-09	3.69E-08
ENSMUSG00000069892	9930111J21Rik2	RIKEN cDNA 9930111J21 gene 2	-0.905778765	1.39E-09	3.70E-08
ENSMUSG00000022594	Lynx1	Ly6/neurotoxin 1	-1.080729937	1.40E-09	3.71E-08
ENSMUSG00000016918	Sulf1	sulfatase 1	-0.944545557	1.40E-09	3.71E-08
ENSMUSG00000033065	Pfkfb	phosphofructokinase, muscle	-0.987457052	1.40E-09	3.72E-08
ENSMUSG00000007836	Hnrnpa0	heterogeneous nuclear ribonucleoprotein A0	0.864837149	1.41E-09	3.74E-08
ENSMUSG00000022443	Myh9	myosin, heavy polypeptide 9, non-muscle	0.929521296	1.43E-09	3.79E-08
ENSMUSG000000087259	2610035D17Rik	RIKEN cDNA 2610035D17 gene	-1.384342431	1.45E-09	3.84E-08
ENSMUSG00000039055	Eme1	essential meiotic endonuclease 1 homolog 1 (S. pombe)	2.240440485	1.46E-09	3.87E-08
ENSMUSG00000024302	Dtna	dystrobrevin alpha	-1.354509516	1.48E-09	3.92E-08
ENSMUSG00000023087	Ccrn4l	CCR4 carbon catabolite repression 4-like (S. cerevisiae)	2.096420089	1.52E-09	4.01E-08
ENSMUSG00000036006	Fam65b	family with sequence similarity 65, member B	-1.161996903	1.52E-09	4.01E-08
ENSMUSG00000041046	Ramp3	receptor (calcitonin) activity modifying protein 3	-1.75594636	1.53E-09	4.02E-08
ENSMUSG00000006219	Fblin1	filamin binding LIM protein 1	1.067939033	1.55E-09	4.07E-08
ENSMUSG00000026276	2-Sep	septin 2	0.862498677	1.55E-09	4.07E-08
ENSMUSG00000021737	Psmc6	proteasome (prosome, macropain) 26S subunit, non-ATPase, 6	0.90266763	1.56E-09	4.09E-08
ENSMUSG00000025351	Cd63	CD63 antigen	1.437793989	1.57E-09	4.11E-08
ENSMUSG00000046314	Stxbp6	syntaxin binding protein 6 (amisyn)	0.895627216	1.58E-09	4.14E-08
ENSMUSG00000027983	Cyp2u1	cytochrome P450, family 2, subfamily u, polypeptide 1	-1.954539987	1.58E-09	4.15E-08
ENSMUSG00000018848	Rars	arginyl-tRNA synthetase	0.91833171	1.59E-09	4.16E-08
ENSMUSG00000022803	Popdc2	popeye domain containing 2	-1.644522307	1.60E-09	4.18E-08
ENSMUSG000000069910	Spd1	spindle apparatus coiled-coil protein 1	2.352101352	1.61E-09	4.19E-08
ENSMUSG00000001768	Rin2	Ras and Rab interactor 2	-0.898310066	1.61E-09	4.20E-08
ENSMUSG00000002504	Slc9a3r2	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 2	-2.249702024	1.61E-09	4.21E-08
ENSMUSG00000020422	Tns3	tensin 3	0.866106322	1.65E-09	4.29E-08
ENSMUSG00000028328	Tmod1	tropomodulin 1	-1.397362783	1.65E-09	4.30E-08
ENSMUSG00000023206	Il15ra	interleukin 15 receptor, alpha chain	-0.944973936	1.66E-09	4.32E-08
ENSMUSG00000075031	Hist1h2bb	histone cluster 1, H2bb	2.404407382	1.71E-09	4.43E-08
ENSMUSG00000020097	Sgpl1	sphingosine phosphate lyase 1	0.890244738	1.77E-09	4.58E-08
ENSMUSG00000045776	Lrtm1	leucine-rich repeats and transmembrane domains 1	-2.539005972	1.79E-09	4.65E-08
ENSMUSG00000073940	Hbb-bt	hemoglobin, beta adult t chain	-1.976073378	1.81E-09	4.70E-08
ENSMUSG00000030659	Nucb2	nucleobindin 2	1.077192098	1.83E-09	4.73E-08
ENSMUSG00000048126	Col6a3	collagen, type VI, alpha 3	1.328095612	1.87E-09	4.83E-08
ENSMUSG00000024742	Fen1	flap structure specific endonuclease 1	1.302270503	1.90E-09	4.91E-08
ENSMUSG00000075602	Ly6a	lymphocyte antigen 6 complex, locus A	-0.832246886	1.92E-09	4.95E-08
ENSMUSG00000024012	Mtch1	mitochondrial carrier homolog 1 (C. elegans)	0.911202152	1.92E-09	4.96E-08
ENSMUSG00000026305	Lrrflp1	leucine rich repeat (in FLII) interacting protein 1	0.848426203	1.93E-09	4.97E-08
ENSMUSG00000022234	Cct5	chaperonin containing Tcp1, subunit 5 (epsilon)	0.860858353	1.96E-09	5.05E-08

ENSMUSG00000034311	Kif4	kinesin family member 4	2.288497946	1.97E-09	5.07E-08
ENSMUSG00000020077	Srgn	serglycin	-0.879375384	2.01E-09	5.17E-08
ENSMUSG00000027746	Ufm1	ubiquitin-fold modifier 1	0.913655432	2.02E-09	5.18E-08
ENSMUSG000000062127	Cttnbp2nl	CTTNBP2 N-terminal like	0.952137172	2.04E-09	5.24E-08
ENSMUSG00000028524	Sgip1	SH3-domain GRB2-like (endophilin) interacting protein 1	-1.318247317	2.05E-09	5.26E-08
ENSMUSG00000026766	Mmadhc	methylmalonic aciduria (cobalamin deficiency) cblD type, with homocystinuria	0.915636694	2.08E-09	5.33E-08
ENSMUSG00000029759	Pon3	paraoxonase 3	1.074067306	2.11E-09	5.39E-08
ENSMUSG00000020484	Xbp1	X-box binding protein 1	0.864949975	2.12E-09	5.41E-08
ENSMUSG00000038633	Degs1	degenerative spermatocyte homolog 1 (Drosophila)	0.850492401	2.12E-09	5.42E-08
ENSMUSG000000098318	1190002F15Rik	RIKEN cDNA 1190002F15 gene	2.288047072	2.17E-09	5.52E-08
ENSMUSG00000016763	Scube1	signal peptide, CUB domain, EGF-like 1	-1.108055153	2.17E-09	5.52E-08
ENSMUSG00000024968	Rcor2	REST corepressor 2	-1.833321407	2.17E-09	5.52E-08
ENSMUSG00000017286	Glod4	glyoxalase domain containing 4	0.922069885	2.18E-09	5.54E-08
ENSMUSG000000085218	BB218582	expressed sequence BB218582	-2.645745924	2.21E-09	5.62E-08
ENSMUSG000000041731	Pgm5	phosphoglucomutase 5	0.83276082	2.22E-09	5.63E-08
ENSMUSG000000031788	Kifc3	kinesin family member C3	-1.684035626	2.23E-09	5.65E-08
ENSMUSG000000047250	Ptgs1	prostaglandin-endoperoxide synthase 1	-0.9758465	2.25E-09	5.71E-08
ENSMUSG000000031990	Jam3	junction adhesion molecule 3	-0.855694923	2.28E-09	5.78E-08
ENSMUSG00000018263	Tbx5	T-box 5	-2.653208987	2.29E-09	5.81E-08
ENSMUSG00000025272	Tro	trophinin	1.636847728	2.31E-09	5.83E-08
ENSMUSG00000040084	Bub1b	budding uninhibited by benzimidazoles 1 homolog, beta (S. cerevisiae)	2.302086774	2.31E-09	5.83E-08
ENSMUSG000000036585	Fgf1	fibroblast growth factor 1	-0.98284445	2.34E-09	5.90E-08
ENSMUSG00000020788	Atp2a3	ATPase, Ca++ transporting, ubiquitous	-1.687774088	2.40E-09	6.04E-08
ENSMUSG000000053716	Dusp7	dual specificity phosphatase 7	-0.888557731	2.42E-09	6.11E-08
ENSMUSG000000039318	Rab3gap2	RAB3 GTPase activating protein subunit 2	0.834624245	2.43E-09	6.13E-08
ENSMUSG000000030302	Atp2b2	ATPase, Ca++ transporting, plasma membrane 2	-2.689171534	2.55E-09	6.41E-08
ENSMUSG000000021118	Plek2	pleckstrin 2	-2.349814081	2.58E-09	6.48E-08
ENSMUSG000000050953	Gja1	gap junction protein, alpha 1	0.906357429	2.63E-09	6.59E-08
ENSMUSG000000032440	Tgfb2	transforming growth factor, beta receptor II	0.939937029	2.64E-09	6.63E-08
ENSMUSG000000044231	Nhlrc1	NHL repeat containing 1	-2.022119911	2.66E-09	6.66E-08
ENSMUSG000000040612	Ildr2	immunoglobulin-like domain containing receptor 2	2.077432593	2.82E-09	7.07E-08
ENSMUSG000000022391	Rangap1	RAN GTPase activating protein 1	0.92271536	2.85E-09	7.12E-08
ENSMUSG000000071669	Snx29	sorting nexin 29	-1.068597489	2.88E-09	7.19E-08
ENSMUSG000000005102	Eif2ak4	eukaryotic translation initiation factor 2 alpha kinase 4	0.849083233	2.90E-09	7.25E-08
ENSMUSG000000062825	Actg1	actin, gamma, cytoplasmic 1	-1.230572981	2.92E-09	7.27E-08
ENSMUSG000000087516	Tbx3os1	T-box 3, opposite strand 1	-1.752013967	2.94E-09	7.32E-08
ENSMUSG000000097431	Gm26782	predicted gene, 26782	1.247926447	2.96E-09	7.37E-08
ENSMUSG000000025579	Gaa	glucosidase, alpha, acid	-1.555807947	2.96E-09	7.37E-08
ENSMUSG000000038482	Tfdp1	transcription factor Dp 1	1.219094574	2.99E-09	7.44E-08
ENSMUSG000000026675	Hsd17b7	hydroxysteroid (17-beta) dehydrogenase 7	1.155583877	3.01E-09	7.47E-08
ENSMUSG000000040606	Kazn	kazrin, periplakin interacting protein	-0.931074012	3.02E-09	7.50E-08
ENSMUSG00000026854	Usp20	ubiquitin specific peptidase 20	-1.070016935	3.06E-09	7.57E-08
ENSMUSG000000031661	Nkd1	naked cuticle 1 homolog (Drosophila)	-1.191244989	3.06E-09	7.57E-08
ENSMUSG000000030325	Klrb1c	killer cell lectin-like receptor subfamily B member 1C	3.867696107	3.13E-09	7.75E-08
ENSMUSG000000011114	Tbfg1	transforming growth factor beta regulated gene 1	0.854513871	3.20E-09	7.90E-08
ENSMUSG000000043015	Tmem194b	transmembrane protein 194B	-0.862097714	3.21E-09	7.93E-08
ENSMUSG000000032437	Stt3b	STT3, subunit of the oligosaccharyltransferase complex, homolog B (S. cerevisiae)	0.835279936	3.25E-09	8.02E-08
ENSMUSG000000030399	Ckm	creatine kinase, muscle	-2.130656827	3.27E-09	8.05E-08
ENSMUSG000000032383	Ppib	peptidylprolyl isomerase B	0.834105531	3.33E-09	8.21E-08
ENSMUSG000000025867	Cplx2	complexin 2	0.88214957	3.35E-09	8.26E-08
ENSMUSG000000044668	Fam46c	family with sequence similarity 46, member C	-1.294462548	3.36E-09	8.26E-08
ENSMUSG000000074039	4930520O04Rik	RIKEN cDNA 4930520O04 gene	-2.116663391	3.41E-09	8.38E-08
ENSMUSG000000049119	Fam110b	family with sequence similarity 110, member B	-1.48291475	3.44E-09	8.45E-08
ENSMUSG000000008658	Rbfox1	RNA binding protein, fox-1 homolog (C. elegans) 1	-2.459107875	3.46E-09	8.48E-08
ENSMUSG000000099583	Hist1h3d	histone cluster 1, H3d	2.137506692	3.48E-09	8.53E-08
ENSMUSG000000031709	Tbc1d9	TBC1 domain family, member 9	1.438713315	3.49E-09	8.55E-08
ENSMUSG000000047989	Ino80c	INO80 complex subunit C	0.8663889	3.58E-09	8.76E-08
ENSMUSG000000044768	D1Ert622e	DNA segment, Chr 1, ERATO Doi 622, expressed	0.970942637	3.62E-09	8.84E-08
ENSMUSG000000053846	Lipg	lipase, endothelial	2.008211215	3.72E-09	9.09E-08
ENSMUSG000000017631	Abr	active BCR-related gene	-0.88963672	3.74E-09	9.13E-08
ENSMUSG000000039934	Gsap	gamma-secretase activating protein	0.945275149	3.76E-09	9.17E-08
ENSMUSG000000051716	Apon	apolipoprotein N	-1.39548702	3.78E-09	9.21E-08
ENSMUSG00000029456	Acad10	acyl-Coenzyme A dehydrogenase family, member 10	-1.16932813	3.79E-09	9.22E-08
ENSMUSG000000047261	Gap43	growth associated protein 43	5.357842549	3.81E-09	9.26E-08
ENSMUSG000000025027	Xpnpep1	X-prolyl aminopeptidase (aminopeptidase P) 1, soluble	0.862434774	3.94E-09	9.58E-08
ENSMUSG000000011228	Uhrf1	ubiquitin-like, containing PHD and RING finger domains, 1	2.405451386	4.01E-09	9.73E-08
ENSMUSG000000027200	Sema6d	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D	0.843041645	4.06E-09	9.85E-08
ENSMUSG000000021939	Ctsb	cathepsin B	0.812991867	4.07E-09	9.87E-08
ENSMUSG000000025766	D3Ert751e	DNA segment, Chr 3, ERATO Doi 751, expressed	-1.104590775	4.13E-09	1.00E-07
ENSMUSG000000087361	0610043K17Rik	RIKEN cDNA 0610043K17 gene	-1.778785886	4.14E-09	1.00E-07
ENSMUSG000000063889	Crem	cAMP responsive element modulator	0.912828032	4.23E-09	1.02E-07
ENSMUSG000000010406	Mrp152	mitochondrial ribosomal protein L52	1.012210556	4.23E-09	1.02E-07
ENSMUSG000000029864	Gstk1	glutathione S-transferase kappa 1	-1.007969973	4.36E-09	1.05E-07

ENSMUSG00000078941	Ak6	adenylate kinase 6	1.141091394	4.38E-09	1.06E-07
ENSMUSG00000030699	Tbx6	T-box 6	-1.735099683	4.43E-09	1.07E-07
ENSMUSG00000057719	Sh3rf2	SH3 domain containing ring finger 2	-2.557015047	4.43E-09	1.07E-07
ENSMUSG00000024299	Adamts10	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 10	-1.285894542	4.44E-09	1.07E-07
ENSMUSG00000018932	Map2k3	mitogen-activated protein kinase kinase 3	0.853670056	4.46E-09	1.07E-07
ENSMUSG00000005103	Wdr1	WD repeat domain 1	0.833934559	4.54E-09	1.09E-07
ENSMUSG00000028150	Rorc	RAR-related orphan receptor gamma	-1.561304844	4.59E-09	1.10E-07
ENSMUSG00000035960	Apex1	apurinic/apyrimidinic endonuclease 1	1.033589938	4.61E-09	1.10E-07
ENSMUSG00000026202	Tuba4a	tubulin, alpha 4A	-1.25278762	4.61E-09	1.10E-07
ENSMUSG00000038991	Txndc5	thioredoxin domain containing 5	0.838512351	4.63E-09	1.11E-07
ENSMUSG00000031262	Cenpi	centromere protein 1	2.709933252	4.70E-09	1.12E-07
ENSMUSG00000001555	Fkbp10	FK506 binding protein 10	1.590991367	4.77E-09	1.14E-07
ENSMUSG00000036676	Tmtc3	transmembrane and tetratricopeptide repeat containing 3	0.859343072	4.78E-09	1.14E-07
ENSMUSG00000104347	RP23-89L15.6		1.335440103	4.83E-09	1.15E-07
ENSMUSG00000032309	Fbxo22	F-box protein 22	-0.841631804	4.84E-09	1.15E-07
ENSMUSG00000052131	Akr1b7	aldo-keto reductase family 1, member B7	6.323496745	4.87E-09	1.16E-07
ENSMUSG00000057335	Cep170	centrosomal protein 170	0.82343267	4.87E-09	1.16E-07
ENSMUSG00000038984	Tspyl5	testis-specific protein, Y-encoded-like 5	-1.365682727	4.87E-09	1.16E-07
ENSMUSG00000025813	Homer2	homer homolog 2 (Drosophila)	-2.089510395	4.95E-09	1.17E-07
ENSMUSG00000104213	Ighd	immunoglobulin heavy constant delta	-1.76969164	5.02E-09	1.19E-07
ENSMUSG00000006641	Slc5a6	solute carrier family 5 (sodium-dependent vitamin transporter), member 6	-1.145623534	5.05E-09	1.20E-07
ENSMUSG00000047832	Cdca4	cell division cycle associated 4	0.92739743	5.08E-09	1.20E-07
ENSMUSG00000018845	Unc45b	unc-45 homolog B (C. elegans)	-0.943151223	5.09E-09	1.20E-07
ENSMUSG00000030621	Me3	malic enzyme 3, NADP(+)-dependent, mitochondrial	-1.716519597	5.11E-09	1.21E-07
ENSMUSG00000027287	Snap23	synaptosomal-associated protein 23	0.862620836	5.13E-09	1.21E-07
ENSMUSG00000008734	Gprc5b	G protein-coupled receptor, family C, group 5, member B	1.343493375	5.16E-09	1.22E-07
ENSMUSG00000005268	Prlr	prolactin receptor	-2.560506781	5.20E-09	1.23E-07
ENSMUSG00000024989	Cep55	centrosomal protein 55	2.789995469	5.38E-09	1.27E-07
ENSMUSG00000003420	Fcgrt	Fc receptor, IgG, alpha chain transporter	-1.32527054	5.42E-09	1.28E-07
ENSMUSG00000047714	Ppp1r2	protein phosphatase 1, regulatory (inhibitor) subunit 2	0.797324041	5.45E-09	1.28E-07
ENSMUSG00000003112	Stk26	serine/threonine kinase 26	-1.361388905	5.46E-09	1.28E-07
ENSMUSG00000029641	Ras11a	RAS-like, family 11, member A	-1.629813427	5.47E-09	1.29E-07
ENSMUSG00000020682	Mmp28	matrix metalloproteinase 28 (epilysin)	-1.460316541	5.51E-09	1.29E-07
ENSMUSG00000036880	Acaa2	acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase)	-0.945571681	5.55E-09	1.30E-07
ENSMUSG00000035944	Ttc38	tetratricopeptide repeat domain 38	-1.113292634	5.64E-09	1.32E-07
ENSMUSG000000067158	Col4a4	collagen, type IV, alpha 4	-1.440683037	5.67E-09	1.33E-07
ENSMUSG00000103409	RP23-456B9.23		-1.581212202	5.67E-09	1.33E-07
ENSMUSG00000027828	Ssr3	signal sequence receptor, gamma	0.829444406	5.69E-09	1.33E-07
ENSMUSG00000027108	Ola1	Obg-like ATPase 1	0.935756582	5.71E-09	1.33E-07
ENSMUSG00000000028	Cdc45	cell division cycle 45	2.124711704	5.72E-09	1.33E-07
ENSMUSG00000003282	Plag1	pleiomorphic adenoma gene 1	-1.132193657	5.84E-09	1.36E-07
ENSMUSG00000050370	Ch25h	cholesterol 25-hydroxylase	1.404914107	5.85E-09	1.36E-07
ENSMUSG000000037940	Inpp4b	inositol polyphosphate-4-phosphatase, type II	-1.008339415	5.88E-09	1.37E-07
ENSMUSG00000042066	Tmcc2	transmembrane and coiled-coil domains 2	-1.024883962	5.88E-09	1.37E-07
ENSMUSG00000005470	Asf1b	anti-silencing function 1B histone chaperone	2.744764069	5.89E-09	1.37E-07
ENSMUSG00000040746	Rnf167	ring finger protein 167	-0.870287828	5.89E-09	1.37E-07
ENSMUSG00000053964	Lgals4	lectin, galactose binding, soluble 4	-1.998985202	5.92E-09	1.37E-07
ENSMUSG00000026355	Mcm6	minichromosome maintenance deficient 6 (MISS homolog, S. pombe) (S. cerevisiae)	1.058172175	6.02E-09	1.39E-07
ENSMUSG00000045382	Cxcr4	chemokine (C-X-C motif) receptor 4	0.848788281	6.02E-09	1.39E-07
ENSMUSG00000039997	Ilf203	interferon activated gene 203	-1.02259786	6.04E-09	1.40E-07
ENSMUSG00000035506	Slc12a8	solute carrier family 12 (potassium/chloride transporters), member 8	-1.331914442	6.05E-09	1.40E-07
ENSMUSG00000038995	Asap3	ArfGAP with SH3 domain, ankyrin repeat and PH domain 3	-1.344213423	6.11E-09	1.41E-07
ENSMUSG00000025917	Cops5	COP9 (constitutive photomorphogenic) homolog, subunit 5 (Arabidopsis thaliana)	0.85829823	6.12E-09	1.41E-07
ENSMUSG00000026955	Sapcd2	suppressor APC domain containing 2	2.207978576	6.15E-09	1.42E-07
ENSMUSG00000047879	Usp14	ubiquitin specific peptidase 14	0.894999796	6.21E-09	1.43E-07
ENSMUSG00000030088	Aldh1l1	aldehyde dehydrogenase 1 family, member L1	-1.726181277	6.24E-09	1.44E-07
ENSMUSG00000036611	Eepd1	endonuclease/exonuclease/phosphatase family domain containing 1	-0.839734245	6.26E-09	1.44E-07
ENSMUSG00000033066	Gas7	growth arrest specific 7	2.345660367	6.37E-09	1.46E-07
ENSMUSG00000002068	Ccne1	cyclin E1	1.671495016	6.38E-09	1.47E-07
ENSMUSG000000021693	Kif2a	kinesin family member 2A	0.911049218	6.40E-09	1.47E-07
ENSMUSG00000000530	Acvr1	activin A receptor, type II-like 1	-1.437038255	6.50E-09	1.49E-07
ENSMUSG00000052934	Fbxo31	F-box protein 31	-1.368689309	6.55E-09	1.52E-07
ENSMUSG00000002985	Apoe	apolipoprotein E	-1.4120515	6.70E-09	1.53E-07
ENSMUSG00000064080	Fbln2	fibulin 2	-1.439768135	6.70E-09	1.53E-07
ENSMUSG00000032400	Zwilch	zwilch kinetochore protein	2.090847714	6.75E-09	1.54E-07
ENSMUSG00000048142	Nat8l	N-acetyltransferase 8-like	-1.844201734	6.91E-09	1.58E-07
ENSMUSG00000038943	Prc1	protein regulator of cytokinesis 1	2.769821823	6.92E-09	1.58E-07
ENSMUSG00000027536	Chmp4c	charged multivesicular body protein 4C	-1.146985762	6.94E-09	1.58E-07
ENSMUSG00000031995	St14	suppression of tumorigenicity 14 (colon carcinoma)	-2.337635915	6.95E-09	1.58E-07
ENSMUSG00000072980	Oip5	Opa interacting protein 5	2.444588516	7.09E-09	1.61E-07
ENSMUSG00000028551	Cdkn2c	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	1.50793882	7.14E-09	1.62E-07
ENSMUSG00000030263	Lrmp	lymphoid-restricted membrane protein	-1.384310032	7.15E-09	1.62E-07
ENSMUSG00000045763	Basp1	brain abundant, membrane attached signal protein 1	2.076417729	7.19E-09	1.63E-07

ENSMUSG00000036112	Metap2	methionine aminopeptidase 2	0.852414676	7.31E-09	1.66E-07
ENSMUSG00000018387	Shroom1	shroom family member 1	-1.521535312	7.33E-09	1.66E-07
ENSMUSG000000103009	RP23-160G19.10		1.308099637	7.40E-09	1.67E-07
ENSMUSG00000001056	Nhp2	NHP2 ribonucleoprotein	1.019547293	7.41E-09	1.67E-07
ENSMUSG000000064342	mt-T1	mitochondrially encoded tRNA isoleucine	-1.020889882	7.40E-09	1.67E-07
ENSMUSG000000044092	C130050O18Rik	RIKEN cDNA C130050O18 gene	-2.482363592	7.41E-09	1.67E-07
ENSMUSG000000068614	Actc1	actin, alpha, cardiac muscle 1	-1.50054512	7.45E-09	1.68E-07
ENSMUSG000000037119	D15Ert621e	DNA segment, Chr 15, ERATO Doi 621, expressed	0.844686732	7.57E-09	1.71E-07
ENSMUSG000000041959	S100a10	S100 calcium binding protein A10 (calpactin)	0.805711725	7.62E-09	1.72E-07
ENSMUSG000000014146	Cct3	chaperonin containing Tcp1, subunit 3 (gamma)	0.847574607	7.71E-09	1.74E-07
ENSMUSG000000098176	Ccdc166	coiled-coil domain containing 166	-1.15503862	7.95E-09	1.79E-07
ENSMUSG00000020354	Sgcd	sarcoglycan, delta (dystrophin-associated glycoprotein)	-1.211878741	7.99E-09	1.80E-07
ENSMUSG000000045201	Lrrc3b	leucine rich repeat containing 3B	-0.977194802	8.13E-09	1.83E-07
ENSMUSG000000021996	Esd	esterase D/formylglutathione hydrolase	0.858725281	8.27E-09	1.86E-07
ENSMUSG000000054021	Sirt5	sirtuin 5	-1.117902839	8.43E-09	1.89E-07
ENSMUSG000000042834	Nrep	neuronal regeneration related protein	1.128419797	8.47E-09	1.90E-07
ENSMUSG000000004558	Ndrq2	N-myc downstream regulated gene 2	-1.070981442	8.47E-09	1.90E-07
ENSMUSG000000026708	Centp1	centromere protein L	1.123430787	8.50E-09	1.90E-07
ENSMUSG000000030671	Pde3b	phosphodiesterase 3B, cGMP-inhibited	1.011686815	8.62E-09	1.93E-07
ENSMUSG000000020803	Txndc17	thioredoxin domain containing 17	0.856412989	8.62E-09	1.93E-07
ENSMUSG000000023755	Rheb1l	Ras homolog enriched in brain like 1	-1.152738129	8.67E-09	1.94E-07
ENSMUSG000000027111	Itga6	integrin alpha 6	0.823077031	8.69E-09	1.94E-07
ENSMUSG000000018830	Myh11	myosin, heavy polypeptide 11, smooth muscle	-1.401756248	8.73E-09	1.95E-07
ENSMUSG000000036223	Ska1	spindle and kinetochore associated complex subunit 1	2.785622331	8.76E-09	1.95E-07
ENSMUSG000000023830	Igf2r	insulin-like growth factor 2 receptor	0.801101271	8.79E-09	1.96E-07
ENSMUSG000000090958	Lrrc32	leucine rich repeat containing 32	-1.182121447	8.87E-09	1.97E-07
ENSMUSG000000034330	Plcg2	phospholipase C, gamma 2	-0.947504104	9.00E-09	2.00E-07
ENSMUSG000000003191	L1cam	L1 cell adhesion molecule	-1.347759895	9.04E-09	2.01E-07
ENSMUSG000000040339	Fam102b	family with sequence similarity 102, member B	0.903207989	9.10E-09	2.02E-07
ENSMUSG000000002100	Mybpc3	myosin binding protein C, cardiac	-2.197334021	9.10E-09	2.02E-07
ENSMUSG000000031438	Rnf128	ring finger protein 128	-1.73215334	9.15E-09	2.03E-07
ENSMUSG000000020152	Actr2	ARP2 actin-related protein 2	0.842124377	9.18E-09	2.03E-07
ENSMUSG000000095115	Itprip12	inositol 1,4,5-triphosphate receptor interacting protein-like 2	0.819362747	9.24E-09	2.04E-07
ENSMUSG0000000031789	Cnbg1	cyclic nucleotide gated channel beta 1	-1.234685613	9.24E-09	2.04E-07
ENSMUSG000000029123	Stk32b	serine/threonine kinase 32B	-5.010303188	9.39E-09	2.07E-07
ENSMUSG0000000064179	Tnnt1	troponin T1, skeletal, slow	1.649688965	9.41E-09	2.07E-07
ENSMUSG000000020542	Myocd	myocardin	-1.337314418	9.40E-09	2.07E-07
ENSMUSG000000024791	Cdca5	cell division cycle associated 5	2.545140814	9.43E-09	2.08E-07
ENSMUSG000000041696	Ras12	RAS-like, family 12	-0.968658498	9.65E-09	2.13E-07
ENSMUSG000000036833	Pnpla7	patatin-like phospholipase domain containing 7	-0.986021805	9.79E-09	2.15E-07
ENSMUSG0000000046380	Jrk	jerky	-1.085608772	1.01E-08	2.21E-07
ENSMUSG000000040694	Apobec2	apolipoprotein B mRNA editing enzyme, catalytic polypeptide 2	-1.413354955	1.02E-08	2.23E-07
ENSMUSG000000040666	Sh3bgr	SH3-binding domain glutamic acid-rich protein	-1.482614885	1.03E-08	2.26E-07
ENSMUSG000000022945	Chaf1b	chromatin assembly factor 1, subunit B (p60)	1.612883541	1.03E-08	2.26E-07
ENSMUSG000000031824	6430548M08Rik	RIKEN cDNA 6430548M08 gene	-0.885358825	1.04E-08	2.27E-07
ENSMUSG000000020926	Adam11	a disintegrin and metallopeptidase domain 11	-1.715909442	1.04E-08	2.29E-07
ENSMUSG000000057098	Ebf1	early B cell factor 1	-0.838511269	1.05E-08	2.29E-07
ENSMUSG000000028792	Ak2	adenylate kinase 2	0.909187857	1.06E-08	2.32E-07
ENSMUSG000000044938	Klhl31	kelch-like 31	-2.0793471	1.08E-08	2.35E-07
ENSMUSG000000032579	Hemk1	HemK methyltransferase family member 1	-0.990544062	1.09E-08	2.38E-07
ENSMUSG000000044991	1110034G24Rik	RIKEN cDNA 1110034G24 gene	-1.065590728	1.09E-08	2.39E-07
ENSMUSG000000079426	Arcp4	actin related protein 2/3 complex, subunit 4	0.828470501	1.10E-08	2.40E-07
ENSMUSG00000005732	Ranbp1	RAN binding protein 1	0.892245043	1.11E-08	2.42E-07
ENSMUSG000000031379	Pir	pirin	-1.298402518	1.11E-08	2.42E-07
ENSMUSG000000073535	Gm5532	predicted gene 5532	-1.697660003	1.12E-08	2.43E-07
ENSMUSG000000026676	Ccdc3	coiled-coil domain containing 3	-0.862922117	1.12E-08	2.43E-07
ENSMUSG000000038936	Scppdh	saccharopine dehydrogenase (putative)	0.93556636	1.13E-08	2.44E-07
ENSMUSG000000014959	Gorasp2	golgi reassembly stacking protein 2	0.820742137	1.14E-08	2.48E-07
ENSMUSG000000049044	Rapgef4	Rap guanine nucleotide exchange factor (GEF) 4	-0.817741252	1.16E-08	2.52E-07
ENSMUSG000000031425	Plp1	proteolipid protein (myelin) 1	-1.307938087	1.19E-08	2.58E-07
ENSMUSG000000023960	Enpp5	ectonucleotide pyrophosphatase/phosphodiesterase 5	-0.89473182	1.20E-08	2.61E-07
ENSMUSG000000048096	Lmod1	leiomodlin 1 (smooth muscle)	-1.381303106	1.21E-08	2.62E-07
ENSMUSG000000061535	C1qtnf7	C1q and tumor necrosis factor related protein 7	-1.164817623	1.24E-08	2.67E-07
ENSMUSG000000011256	Adam19	a disintegrin and metallopeptidase domain 19 (meltrin beta)	1.184285862	1.25E-08	2.70E-07
ENSMUSG000000066324	Impad1	inositol monophosphatase domain containing 1	0.807034353	1.26E-08	2.71E-07
ENSMUSG000000021608	Lpcat1	lysophosphatidylcholine acyltransferase 1	-0.775008868	1.26E-08	2.73E-07
ENSMUSG000000039686	Zer1	zyg-11 related, cell cycle regulator	-0.98138832	1.27E-08	2.73E-07
ENSMUSG000000029122	Evc	Ellis van Creveld gene syndrome	-1.115622846	1.27E-08	2.73E-07
ENSMUSG000000029377	Ereg	epiregulin	3.446190162	1.27E-08	2.73E-07
ENSMUSG000000042116	Vwa1	von Willebrand factor A domain containing 1	0.860006974	1.27E-08	2.74E-07
ENSMUSG000000000182	Fgf23	fibroblast growth factor 23	7.196546979	1.29E-08	2.76E-07
ENSMUSG000000027510	Rbm38	RNA binding motif protein 38	-1.680001914	1.30E-08	2.80E-07
ENSMUSG000000020849	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide	0.823096554	1.31E-08	2.80E-07

ENSMUSG00000019866	Aim1	absent in melanoma 1	-0.813871041	1.32E-08	2.82E-07
ENSMUSG00000023007	Prpf40b	PRPF40 pre-mRNA processing factor 40 homolog B (yeast)	-0.915429717	1.34E-08	2.88E-07
ENSMUSG000000055172	C1ra	complement component 1, r subcomponent A	-1.148451769	1.37E-08	2.92E-07
ENSMUSG00000015882	Lcorl	ligand dependent nuclear receptor corepressor-like	0.860780045	1.37E-08	2.94E-07
ENSMUSG000000024563	Smad2	SMAD family member 2	0.829572034	1.37E-08	2.94E-07
ENSMUSG00000036545	Adamts2	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 2	1.445000567	1.40E-08	2.98E-07
ENSMUSG00000006699	Cdc42	cell division cycle 42	0.8056114	1.40E-08	2.98E-07
ENSMUSG00000040268	Plekha1	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 1	0.815665398	1.42E-08	3.02E-07
ENSMUSG00000003934	Efnb3	ephrin B3	-1.773962158	1.42E-08	3.02E-07
ENSMUSG000000027715	Ccna2	cyclin A2	2.88346282	1.42E-08	3.03E-07
ENSMUSG00000019789	Hey2	hairy/enhancer-of-split related with YRPW motif 2	-1.069661579	1.43E-08	3.04E-07
ENSMUSG00000033542	Arhgef5	Rho guanine nucleotide exchange factor (GEF) 5	0.826870993	1.44E-08	3.05E-07
ENSMUSG00000026950	Neb	nebulin	-1.039839939	1.44E-08	3.06E-07
ENSMUSG00000036570	Fxyd1	FXD domain-containing ion transport regulator 1	-1.673958642	1.45E-08	3.08E-07
ENSMUSG00000049775	Tmsb4x	thymosin, beta 4, X chromosome	0.79133921	1.45E-08	3.08E-07
ENSMUSG00000016477	E2f3	E2F transcription factor 3	0.95205569	1.46E-08	3.08E-07
ENSMUSG00000040152	Thbs1	thrombospondin 1	2.513729725	1.48E-08	3.12E-07
ENSMUSG00000069274	Hist1h4f	histone cluster 1, H4f	1.822639739	1.49E-08	3.15E-07
ENSMUSG00000024381	Bin1	bridging integrator 1	0.862041478	1.51E-08	3.19E-07
ENSMUSG00000012443	Kif11	kinesin family member 11	2.860027495	1.52E-08	3.20E-07
ENSMUSG000000074738	B930041F14Rik	RIKEN cDNA B930041F14 gene	-1.734762042	1.52E-08	3.20E-07
ENSMUSG000000026074	Map4k4	mitogen-activated protein kinase kinase kinase 4	0.799826453	1.52E-08	3.21E-07
ENSMUSG000000050029	Rap2c	RAP2C, member of RAS oncogene family	0.824375311	1.55E-08	3.27E-07
ENSMUSG000000024754	Tmem2	transmembrane protein 2	0.82811811	1.55E-08	3.27E-07
ENSMUSG00000052085	Dock8	dedicator of cytokinesis 8	0.894358235	1.56E-08	3.29E-07
ENSMUSG00000037628	Cdkn3	cyclin-dependent kinase inhibitor 3	2.639015861	1.57E-08	3.31E-07
ENSMUSG00000010362	Rdm1	RAD52 motif 1	-1.048212098	1.59E-08	3.34E-07
ENSMUSG000000001707	Eef1e1	eukaryotic translation elongation factor 1 epsilon 1	1.176721382	1.59E-08	3.34E-07
ENSMUSG000000048911	Rnf24	ring finger protein 24	0.945143011	1.61E-08	3.37E-07
ENSMUSG00000033540	Idua	iduronidase, alpha-L-	-0.923213724	1.62E-08	3.40E-07
ENSMUSG000000053553	3110082117Rik	RIKEN cDNA 3110082117 gene	-1.385539075	1.63E-08	3.41E-07
ENSMUSG00000032586	Traip	TRAF-interacting protein	1.671057188	1.63E-08	3.42E-07
ENSMUSG000000086584	Gm12002	predicted gene 12002	-1.055334042	1.65E-08	3.45E-07
ENSMUSG000000074364	Ehd2	EH-domain containing 2	0.776311557	1.66E-08	3.47E-07
ENSMUSG00000016495	Plgrkt	plasminogen receptor, C-terminal lysine transmembrane protein	-0.802473427	1.67E-08	3.49E-07
ENSMUSG000000039458	Mtmr12	myotubularin related protein 12	0.864716544	1.68E-08	3.50E-07
ENSMUSG00000028018	Gstcd	glutathione S-transferase, C-terminal domain containing	1.025203858	1.72E-08	3.59E-07
ENSMUSG000000038663	Fsd2	fibronectin type III and SPRY domain containing 2	-1.987529558	1.74E-08	3.62E-07
ENSMUSG00000002058	Unc119	unc-119 homolog (C. elegans)	2.097448364	1.74E-08	3.62E-07
ENSMUSG00000041498	Kif14	kinesin family member 14	2.570522803	1.76E-08	3.66E-07
ENSMUSG000000027811	4930579G24Rik	RIKEN cDNA 4930579G24 gene	1.470410934	1.76E-08	3.66E-07
ENSMUSG00000028645	Slc2a1	solute carrier family 2 (facilitated glucose transporter), member 1	1.796754233	1.79E-08	3.72E-07
ENSMUSG000000045871	Slitrk6	SLIT and NTRK-like family, member 6	-1.893849638	1.81E-08	3.76E-07
ENSMUSG00000030528	Blm	Bloom syndrome, RecQ helicase-like	1.473202729	1.83E-08	3.79E-07
ENSMUSG000000027750	Postn	periostin, osteoblast specific factor	0.859518284	1.83E-08	3.79E-07
ENSMUSG00000029430	Ran	RAN, member RAS oncogene family	0.90237044	1.83E-08	3.79E-07
ENSMUSG00000035458	Tnni3	troponin I, cardiac 3	-2.013208809	1.83E-08	3.79E-07
ENSMUSG000000022747	St3gal6	ST3 beta-galactoside alpha-2,3-sialyltransferase 6	-0.780786031	1.86E-08	3.86E-07
ENSMUSG000000069300	Hist1h2bj	histone cluster 1, H2bj	2.224531552	1.88E-08	3.88E-07
ENSMUSG000000040592	Cd79b	CD79B antigen	-1.603128141	1.88E-08	3.89E-07
ENSMUSG00000029223	Uchl1	ubiquitin carboxy-terminal hydrolase L1	2.131744686	2.00E-08	4.12E-07
ENSMUSG000000038393	Txnip	thioredoxin interacting protein	-1.079538389	2.08E-08	4.28E-07
ENSMUSG00000021950	Anxa8	annexin A8	-2.704984932	2.10E-08	4.32E-07
ENSMUSG000000072902	Gm10435	predicted gene 10435	-3.137786149	2.14E-08	4.40E-07
ENSMUSG000000051695	Pcbp1	poly(rC) binding protein 1	0.892185793	2.14E-08	4.41E-07
ENSMUSG000000035164	Zc3h12c	zinc finger CCCH type containing 12C	1.054058649	2.17E-08	4.46E-07
ENSMUSG000000027953	Slc50a1	solute carrier family 50 (sugar transporter), member 1	-0.867995434	2.18E-08	4.49E-07
ENSMUSG00000103948	RP23-285H9.2		1.085981709	2.19E-08	4.49E-07
ENSMUSG000000033044	Dhrs7c	dehydrogenase/reductase (SDR family) member 7C	-0.973822362	2.19E-08	4.49E-07
ENSMUSG000000060882	Kcnd2	potassium voltage-gated channel, Shal-related family, member 2	-2.540185523	2.21E-08	4.53E-07
ENSMUSG00000030323	Ift122	intraflagellar transport 122	0.807951731	2.24E-08	4.59E-07
ENSMUSG000000010225	S100a6	S100 calcium binding protein A6 (calcylin)	1.756803629	2.29E-08	4.68E-07
ENSMUSG000000024268	Celf4	CUGBP, Elav-like family member 4	2.911075658	2.29E-08	4.68E-07
ENSMUSG000000025348	Itga7	integrin alpha 7	-1.098058665	2.31E-08	4.73E-07
ENSMUSG00000004939	Nmrk2	nicotinamide riboside kinase 2	3.368467946	2.33E-08	4.76E-07
ENSMUSG000000024232	Bambi	BMP and activin membrane-bound inhibitor	1.036826845	2.35E-08	4.80E-07
ENSMUSG000000050565	Tor1aip2	torsin A interacting protein 2	0.794423178	2.37E-08	4.83E-07
ENSMUSG000000057561	Eif1a	eukaryotic translation initiation factor 1A	0.813025612	2.40E-08	4.90E-07
ENSMUSG000000062963	Ufc1	ubiquitin-fold modifier conjugating enzyme 1	0.82781776	2.43E-08	4.94E-07
ENSMUSG000000027201	Myef2	myelin basic protein expression factor 2, repressor	0.858746786	2.44E-08	4.96E-07
ENSMUSG00000016262	Sertad4	SERTA domain containing 4	-1.123186666	2.46E-08	5.00E-07
ENSMUSG00000004837	Grap	GRB2-related adaptor protein	0.854690507	2.47E-08	5.02E-07
ENSMUSG000000027459	Fam110a	family with sequence similarity 110, member A	-1.56199324	2.50E-08	5.07E-07

ENSMUSG00000028701	Lurap1	leucine rich adaptor protein 1	-0.985256401	2.51E-08	5.10E-07
ENSMUSG00000017615	Tnfrsf1	tumor necrosis factor, alpha-induced protein 1 (endothelial)	0.786719393	2.53E-08	5.14E-07
ENSMUSG00000047534	Mis18bp1	MIS18 binding protein 1	2.529208056	2.54E-08	5.16E-07
ENSMUSG00000039239	Tgfb2	transforming growth factor, beta 2	-0.936343718	2.55E-08	5.16E-07
ENSMUSG00000015850	Adamts14	ADAMTS-like 4	-2.023799965	2.56E-08	5.18E-07
ENSMUSG00000027961	Lrrc39	leucine rich repeat containing 39	-1.426113491	2.60E-08	5.26E-07
ENSMUSG00000056900	Usp13	ubiquitin specific peptidase 13 (isopeptidase T-3)	-1.73932917	2.66E-08	5.38E-07
ENSMUSG00000040274	Cdk6	cyclin-dependent kinase 6	1.086069392	2.73E-08	5.50E-07
ENSMUSG00000034761	Map4k5	mitogen-activated protein kinase kinase kinase 5	0.921082523	2.73E-08	5.50E-07
ENSMUSG00000097204	Gm17690	predicted gene, 17690	-1.323087499	2.73E-08	5.50E-07
ENSMUSG00000078812	Eif5a	eukaryotic translation initiation factor 5A	0.802031496	2.75E-08	5.54E-07
ENSMUSG00000048327	Ckap2l	cytoskeleton associated protein 2-like	2.713985052	2.76E-08	5.57E-07
ENSMUSG00000043541	Casc1	cancer susceptibility candidate 1	1.868067294	2.77E-08	5.57E-07
ENSMUSG00000044199	S1pr4	sphingosine-1-phosphate receptor 4	-2.653309079	2.77E-08	5.57E-07
ENSMUSG00000036617	Etl4	enhancer trap locus 4	-0.80431133	2.80E-08	5.63E-07
ENSMUSG00000028452	Vcp	valosin containing protein	0.808693974	2.85E-08	5.71E-07
ENSMUSG00000028949	Smarcd3	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3	-1.234697797	2.87E-08	5.76E-07
ENSMUSG00000021969	Zdhhc20	zinc finger, DHHC domain containing 20	0.779673623	2.92E-08	5.86E-07
ENSMUSG00000017861	Mybl2	myeloblastosis oncogene-like 2	2.166021	2.93E-08	5.87E-07
ENSMUSG00000020075	Ddx21	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21	0.823221176	2.94E-08	5.88E-07
ENSMUSG00000044749	Abca6	ATP-binding cassette, sub-family A (ABC1), member 6	-1.401883675	2.94E-08	5.88E-07
ENSMUSG00000057914	Cacnb2	calcium channel, voltage-dependent, beta 2 subunit	-1.930931049	2.94E-08	5.88E-07
ENSMUSG00000031803	B3gnt3	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 3	0.820701097	2.97E-08	5.94E-07
ENSMUSG00000040003	Magi2	membrane associated guanylate kinase, WW and PDZ domain containing 2	-1.920167122	2.97E-08	5.94E-07
ENSMUSG00000040964	Arhgef10l	Rho guanine nucleotide exchange factor (GEF) 10-like	-1.11336857	3.00E-08	5.99E-07
ENSMUSG00000030966	Tnim21	tripartite motif-containing 21	-0.786929876	3.01E-08	6.00E-07
ENSMUSG00000004788	Eif2b2	eukaryotic translation initiation factor 2B, subunit 2 beta	1.731758124	3.01E-08	6.00E-07
ENSMUSG00000074652	Myh7b	myosin, heavy chain 7B, cardiac muscle, beta	-3.01633393	3.03E-08	6.04E-07
ENSMUSG00000054871	Tmem158	transmembrane protein 158	1.373197046	3.07E-08	6.10E-07
ENSMUSG00000027984	Hadh	hydroxyacyl-Coenzyme A dehydrogenase	-0.876304198	3.11E-08	6.17E-07
ENSMUSG00000051890	Klhd1	kelch domain containing 1	-1.149458367	3.11E-08	6.17E-07
ENSMUSG00000069601	Ank3	ankyrin 3, epithelial	-1.643659997	3.17E-08	6.29E-07
ENSMUSG00000025597	Klhl4	kelch-like 4	0.784841906	3.18E-08	6.30E-07
ENSMUSG00000051652	Lrrc3	leucine rich repeat containing 3	-1.855152173	3.21E-08	6.36E-07
ENSMUSG00000026385	Dbi	diazepam binding inhibitor	0.85145723	3.21E-08	6.36E-07
ENSMUSG00000022972	1110004E09Rik	RIKEN cDNA 1110004E09 gene	1.129818797	3.23E-08	6.40E-07
ENSMUSG00000090553	Snrpe	small nuclear ribonucleoprotein E	0.962490713	3.24E-08	6.41E-07
ENSMUSG00000041763	Trpp2	tripeptidyl peptidase II	0.800044908	3.24E-08	6.41E-07
ENSMUSG00000079511	Ccdc142	coiled-coil domain containing 142	-1.1924833	3.30E-08	6.52E-07
ENSMUSG00000057363	Uxs1	UDP-glucuronate decarboxylase 1	0.886123226	3.41E-08	6.74E-07
ENSMUSG00000096727	Psmb9	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)	-1.056448697	3.42E-08	6.75E-07
ENSMUSG00000073910	Mob3b	MOB kinase activator 3B	-1.496983707	3.43E-08	6.75E-07
ENSMUSG00000041836	Ptpre	protein tyrosine phosphatase, receptor type, E	0.813157546	3.48E-08	6.85E-07
ENSMUSG00000047880	Cxcr5	chemokine (C-X-C motif) receptor 5	-1.547383264	3.51E-08	6.90E-07
ENSMUSG00000038170	Pde4dip	phosphodiesterase 4D interacting protein (myomegalin)	-1.859384553	3.53E-08	6.94E-07
ENSMUSG00000035829	Ppp1r26	protein phosphatase 1, regulatory subunit 26	-1.897094344	3.54E-08	6.96E-07
ENSMUSG00000038347	Tcte2	t-complex-associated testis expressed 2	-1.352407768	3.57E-08	7.01E-07
ENSMUSG00000030199	Etv6	ets variant 6	0.794567338	3.58E-08	7.03E-07
ENSMUSG00000034088	Hdlbp	high density lipoprotein (HDL) binding protein	0.776667688	3.58E-08	7.03E-07
ENSMUSG00000037921	Ddx60	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60	-0.894094716	3.60E-08	7.06E-07
ENSMUSG00000024091	Vapa	vesicle-associated membrane protein, associated protein A	0.770243995	3.66E-08	7.17E-07
ENSMUSG00000068079	Tcf15	transcription factor 15	-0.837713025	3.67E-08	7.18E-07
ENSMUSG00000032849	Abcc4	ATP-binding cassette, sub-family C (CFTR/MRP), member 4	-0.805133721	3.84E-08	7.50E-07
ENSMUSG00000001440	Kpnb1	karyopherin (importin) beta 1	0.805855473	3.84E-08	7.51E-07
ENSMUSG00000036768	Kif15	kinesin family member 15	2.70580695	3.87E-08	7.56E-07
ENSMUSG00000026715	Serpinc1	serine (or cysteine) peptidase inhibitor, clade C (antithrombin), member 1	1.343104001	3.88E-08	7.58E-07
ENSMUSG00000030225	Dera	2-deoxyribose-5-phosphate aldolase homolog (C. elegans)	1.066314646	3.92E-08	7.66E-07
ENSMUSG00000071540	3425401B19Rik	RIKEN cDNA 3425401B19 gene	-2.326157617	3.93E-08	7.67E-07
ENSMUSG00000078484	Klhl17	kelch-like 17	-1.180225594	4.02E-08	7.84E-07
ENSMUSG00000044033	Ccdc141	coiled-coil domain containing 141	-1.795840119	4.04E-08	7.86E-07
ENSMUSG00000026824	Kcnj3	potassium inwardly-rectifying channel, subfamily J, member 3	-2.388497885	4.06E-08	7.90E-07
ENSMUSG00000002835	Chaf1a	chromatin assembly factor 1, subunit A (p150)	1.870639342	4.12E-08	8.01E-07
ENSMUSG00000031176	Dynl3	dynein light chain 1ctex-type 3	0.783583921	4.15E-08	8.05E-07
ENSMUSG00000022436	Sh3bp1	SH3-domain binding protein 1	-1.257544589	4.16E-08	8.07E-07
ENSMUSG00000020358	Hnrnpab	heterogeneous nuclear ribonucleoprotein A/B	0.807890857	4.16E-08	8.08E-07
ENSMUSG00000009545	Kcnq1	potassium voltage-gated channel, subfamily Q, member 1	0.840738933	4.22E-08	8.17E-07
ENSMUSG00000058290	Esp1l	extra spindle pole bodies 1 (S. cerevisiae)	2.078521549	4.26E-08	8.25E-07
ENSMUSG00000040188	Scamp2	secretory carrier membrane protein 2	0.790747994	4.33E-08	8.38E-07
ENSMUSG00000039316	Rftn1	raftlin lipid raft linker 1	-0.881619125	4.34E-08	8.39E-07
ENSMUSG00000056508	1700001K19Rik	RIKEN cDNA 1700001K19 gene	-1.630283762	4.34E-08	8.40E-07
ENSMUSG00000019979	Apaf1	apoptotic peptidase activating factor 1	0.798219767	4.40E-08	8.50E-07
ENSMUSG00000028977	Casz1	castor zinc finger 1	-0.891740603	4.43E-08	8.55E-07
ENSMUSG00000064345	mt-Nd2	mitochondrially encoded NADH dehydrogenase 2	-0.759808431	4.47E-08	8.62E-07

ENSMUSG00000054477	Kcnn2	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 2	-3.144884595	4.58E-08	8.83E-07
ENSMUSG00000028991	Pkp4	plakophilin 4	-1.201320187	4.62E-08	8.90E-07
ENSMUSG00000005233	Spc25	SPC25, NDC80 kinetochore complex component, homolog (S. cerevisiae)	2.88026957	4.66E-08	8.97E-07
ENSMUSG00000019851	Perp	PERP, TP53 apoptosis effector	-1.099561001	4.67E-08	8.99E-07
ENSMUSG00000004530	Coro1c	coronin, actin binding protein 1C	0.776859383	4.73E-08	9.09E-07
ENSMUSG000000101941	Gm28979	predicted gene 28979	-3.762081674	4.75E-08	9.13E-07
ENSMUSG00000033720	Sfxn5	sideroflexin 5	-1.050812252	4.83E-08	9.27E-07
ENSMUSG00000017781	Pitpna	phosphatidylinositol transfer protein, alpha	0.776217068	4.83E-08	9.28E-07
ENSMUSG00000032271	Nnmt	nicotinamide N-methyltransferase	1.190554072	4.92E-08	9.43E-07
ENSMUSG00000036036	Zfp57	zinc finger protein 57	0.902160552	4.94E-08	9.47E-07
ENSMUSG00000030790	Adm	adrenomedullin	1.509573503	4.99E-08	9.56E-07
ENSMUSG00000034771	Tle2	transducin-like enhancer of split 2, homolog of Drosophila E(spl)	-1.218686081	5.00E-08	9.56E-07
ENSMUSG00000031451	Gas6	growth arrest specific 6	-1.637197242	5.00E-08	9.56E-07
ENSMUSG00000052539	Magj3	membrane associated guanylate kinase, WW and PDZ domain containing 3	0.768035998	5.01E-08	9.57E-07
ENSMUSG00000020473	Aebp1	AE binding protein 1	0.910150821	5.06E-08	9.66E-07
ENSMUSG00000017831	Rab5a	RAB5A, member RAS oncogene family	0.78157456	5.06E-08	9.66E-07
ENSMUSG00000005718	Tfap4	transcription factor AP4	-1.623675649	5.11E-08	9.75E-07
ENSMUSG00000037725	Ckap2	cytoskeleton associated protein 2	2.234675861	5.19E-08	9.90E-07
ENSMUSG00000042043	Tbca	tubulin cofactor A	0.877801262	5.24E-08	9.99E-07
ENSMUSG00000031954	Cfdp1	craniofacial development protein 1	0.825226299	5.33E-08	1.01E-06
ENSMUSG00000043456	Zfp536	zinc finger protein 536	-2.147232218	5.42E-08	1.03E-06
ENSMUSG00000021798	Ldb3	LIM domain binding 3	-2.196119933	5.43E-08	1.03E-06
ENSMUSG00000078552	Dcdc2b	doublecortin domain containing 2b	-1.756224366	5.47E-08	1.04E-06
ENSMUSG00000039137	Whrn	whirlin	-2.519494177	5.50E-08	1.04E-06
ENSMUSG00000026785	Pkn3	protein kinase N3	-1.388091657	5.53E-08	1.05E-06
ENSMUSG00000042978	Sbk1	SH3-binding kinase 1	-1.745101988	5.57E-08	1.06E-06
ENSMUSG00000017677	Wsb1	WD repeat and SOCS box-containing 1	0.88084733	5.58E-08	1.06E-06
ENSMUSG00000034023	Fancd2	Fanconi anemia, complementation group D2	1.892529533	5.64E-08	1.07E-06
ENSMUSG000000054206	Gzmm	granzyme M (lymphocyte met-ase 1)	-1.428856362	5.67E-08	1.07E-06
ENSMUSG00000046491	C1qtnf2	C1q and tumor necrosis factor related protein 2	-1.499439657	5.68E-08	1.07E-06
ENSMUSG00000035683	Melk	maternal embryonic leucine zipper kinase	2.74028485	5.69E-08	1.07E-06
ENSMUSG00000041775	Mapk1p1	mitogen-activated protein kinase 1 interacting protein 1	-0.954121079	5.72E-08	1.08E-06
ENSMUSG00000067995	Gtf2i	general transcription factor IIF, polypeptide 2	0.942639541	5.80E-08	1.09E-06
ENSMUSG000000062190	Lanc12	LanC (bacterial lantibiotic synthetase component C)-like 2	0.846375993	5.82E-08	1.10E-06
ENSMUSG000000055027	Smyd1	SET and MYND domain containing 1	-1.718095404	5.84E-08	1.10E-06
ENSMUSG00000027397	Slc20a1	solute carrier family 20, member 1	1.062850848	5.88E-08	1.11E-06
ENSMUSG00000005225	Plekha8	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 8	0.794476545	5.93E-08	1.12E-06
ENSMUSG00000019787	Trdn	triadin	-1.625982088	5.95E-08	1.12E-06
ENSMUSG00000020689	Itgb3	integrin beta 3	2.676751127	5.99E-08	1.13E-06
ENSMUSG00000016541	Atxn10	ataxin 10	0.824575358	6.00E-08	1.13E-06
ENSMUSG00000020330	Hmnr	hyaluronan mediated motility receptor (RHAMM)	2.907070413	6.05E-08	1.14E-06
ENSMUSG00000022415	Syng1	synaptogyrin 1	-2.679734839	6.06E-08	1.14E-06
ENSMUSG00000025823	Pdia4	protein disulfide isomerase associated 4	0.815097991	6.09E-08	1.14E-06
ENSMUSG00000029379	Cxcl3	chemokine (C-X-C motif) ligand 3	Inf	6.16E-08	1.15E-06
ENSMUSG00000038302	Lace1	lactation elevated 1	-0.842221412	6.23E-08	1.17E-06
ENSMUSG00000044646	Zbtb7c	zinc finger and BTB domain containing 7C	-1.379431365	6.28E-08	1.17E-06
ENSMUSG00000005054	Cstb	cystatin B	0.877380022	6.30E-08	1.18E-06
ENSMUSG00000025885	Myo5b	myosin VB	-1.724325613	6.44E-08	1.20E-06
ENSMUSG00000029066	Mrp120	mitochondrial ribosomal protein L20	0.844560532	6.47E-08	1.21E-06
ENSMUSG00000035967	Ddx26b	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 26B	-0.761665799	6.49E-08	1.21E-06
ENSMUSG00000042745	Id1	inhibitor of DNA binding 1	-1.632590069	6.73E-08	1.25E-06
ENSMUSG000000041193	Pla2g5	phospholipase A2, group V	-1.735915258	6.81E-08	1.27E-06
ENSMUSG000000041313	Slc7a1	solute carrier family 7 (cationic amino acid transporter, y+ system), member 1	0.787340943	6.83E-08	1.27E-06
ENSMUSG00000015247	Nipsnap3b	nipsnap homolog 3B (C. elegans)	0.856438892	6.86E-08	1.28E-06
ENSMUSG00000037989	Wnk2	WNK lysine deficient protein kinase 2	-3.134342264	6.87E-08	1.28E-06
ENSMUSG00000015671	Psm2	proteasome (prosome, macropain) subunit, alpha type 2	0.781640725	6.89E-08	1.28E-06
ENSMUSG00000039485	Tsply4	TSPY-like 4	-0.939133986	6.94E-08	1.29E-06
ENSMUSG00000020601	Trib2	tribbles homolog 2 (Drosophila)	-0.801108406	7.05E-08	1.31E-06
ENSMUSG00000026447	Pik3c2b	phosphoinositide-3-kinase, class 2, beta polypeptide	-0.738740538	7.08E-08	1.31E-06
ENSMUSG000000091455	Otogl	otogelin-like	-2.642605017	7.17E-08	1.33E-06
ENSMUSG00000044447	Dock5	dedicator of cytokinesis 5	0.907199073	7.20E-08	1.33E-06
ENSMUSG00000030785	Cox6a2	cytochrome c oxidase subunit VIa polypeptide 2	-1.653848054	7.31E-08	1.35E-06
ENSMUSG00000033386	Frrs1	ferric-chelate reductase 1	1.353749225	7.36E-08	1.36E-06
ENSMUSG00000004460	Dnajb11	DnaJ (Hsp40) homolog, subfamily B, member 11	0.798521657	7.49E-08	1.38E-06
ENSMUSG00000074064	Mlycd	malonyl-CoA decarboxylase	-0.996193356	7.50E-08	1.38E-06
ENSMUSG00000025889	Snca	synuclein, alpha	-1.683518924	7.59E-08	1.40E-06
ENSMUSG00000015133	Lrrk1	leucine-rich repeat kinase 1	-0.813273229	7.75E-08	1.43E-06
ENSMUSG000000057193	Slc44a2	solute carrier family 44, member 2	-0.788026331	7.81E-08	1.44E-06
ENSMUSG00000060470	Gpr97	G protein-coupled receptor 97	1.696126615	7.83E-08	1.44E-06
ENSMUSG00000032377	Plscr4	phospholipid scramblase 4	-0.802666556	7.83E-08	1.44E-06
ENSMUSG00000062203	Gspt1	G1 to S phase transition 1	0.803825945	7.85E-08	1.44E-06
ENSMUSG00000062210	Tnfrsf8	tumor necrosis factor, alpha-induced protein 8	-0.798455928	7.94E-08	1.46E-06
ENSMUSG00000019923	Zwint	ZW10 interactor	0.79066948	7.96E-08	1.46E-06

ENSMUSG0000016494	Cd34	CD34 antigen	0.777131151	7.96E-08	1.46E-06
ENSMUSG0000027379	Bub1	budding uninhibited by benzimidazoles 1 homolog (S. cerevisiae)	2.833321087	8.00E-08	1.47E-06
ENSMUSG0000020747	Z310067B10Rik	RIKEN cDNA Z310067B10 gene	-1.345211056	8.20E-08	1.50E-06
ENSMUSG0000028926	Cdk14	cyclin-dependent kinase 14	0.804306927	8.31E-08	1.52E-06
ENSMUSG0000026222	Sp100	nuclear antigen Sp100	-0.703496986	8.36E-08	1.53E-06
ENSMUSG0000031756	Cenpn	centromere protein N	2.097605011	8.51E-08	1.56E-06
ENSMUSG0000039661	Dusp26	dual specificity phosphatase 26 (putative)	-1.432606708	8.52E-08	1.56E-06
ENSMUSG0000034472	Rasd2	RASD family, member 2	-1.892756373	8.54E-08	1.56E-06
ENSMUSG0000025903	Lyp1a1	lysophospholipase 1	0.803396367	8.58E-08	1.57E-06
ENSMUSG0000018340	Anxa6	annexin A6	0.754481896	8.59E-08	1.57E-06
ENSMUSG0000085828	Gm15612	predicted gene 15612	-1.85616997	8.65E-08	1.58E-06
ENSMUSG00000104453	WI1-1616M8.3		-1.894851512	8.73E-08	1.59E-06
ENSMUSG0000027463	Slc52a3	solute carrier protein family 52, member 3	-1.406933187	8.81E-08	1.61E-06
ENSMUSG0000019849	Prep	prolyl endopeptidase	0.832654038	8.92E-08	1.62E-06
ENSMUSG0000027456	Sdcbp2	syndecan binding protein (syntenin) 2	1.652340103	8.95E-08	1.63E-06
ENSMUSG0000041429	Nth1	nth (endonuclease III)-like 1 (E. coli)	-1.615503107	8.95E-08	1.63E-06
ENSMUSG0000045319	Proser2	proline and serine rich 2	-1.615216941	8.98E-08	1.63E-06
ENSMUSG0000029092	4930435H24Rik	RIKEN cDNA 4930435H24 gene	1.738813844	8.99E-08	1.63E-06
ENSMUSG0000046658	Zfp316	zinc finger protein 316	-1.130819824	9.01E-08	1.63E-06
ENSMUSG0000033715	Akr1c14	aldo-keto reductase family 1, member C14	-0.756490586	9.15E-08	1.66E-06
ENSMUSG0000090272	Mndal	myeloid nuclear differentiation antigen like	-0.933219847	9.20E-08	1.67E-06
ENSMUSG0000026196	Bard1	BRCA1 associated RING domain 1	1.859640317	9.22E-08	1.67E-06
ENSMUSG0000029073	Ctp	ceramide-1-phosphate transfer protein	0.918205856	9.23E-08	1.67E-06
ENSMUSG0000029231	Pdgfra	platelet derived growth factor receptor, alpha polypeptide	-1.027830404	9.25E-08	1.67E-06
ENSMUSG00000101693	Gm19461	predicted gene, 19461	-2.90995549	9.40E-08	1.70E-06
ENSMUSG0000038187	Btb10	BTB (POZ) domain containing 10	0.804918509	9.43E-08	1.70E-06
ENSMUSG0000070424	Art5	ADP-ribosyltransferase 5	-2.323758686	9.48E-08	1.71E-06
ENSMUSG0000026039	Sgol2	shugoshin-like 2 (S. pombe)	2.576171639	9.50E-08	1.71E-06
ENSMUSG0000026616	Cr2	complement receptor 2	-1.99852927	9.69E-08	1.75E-06
ENSMUSG0000026643	Nmt2	N-myristoyltransferase 2	1.31659087	9.79E-08	1.76E-06
ENSMUSG0000039648	Ccbl1	cysteine conjugate-beta lyase 1	-1.346674738	9.90E-08	1.78E-06
ENSMUSG0000029544	Cabp1	calcium binding protein 1	-0.963691712	1.00E-07	1.80E-06
ENSMUSG0000051335	Gfod1	glucose-fructose oxidoreductase domain containing 1	0.90172191	1.00E-07	1.80E-06
ENSMUSG0000060798	Intu	inturned planar cell polarity effector homolog (Drosophila)	-1.065132275	1.01E-07	1.81E-06
ENSMUSG0000075012	Fjx1	four jointed box 1 (Drosophila)	2.170511256	1.01E-07	1.82E-06
ENSMUSG0000050097	Ces2b	carboxyesterase 2B	-3.405026216	1.02E-07	1.83E-06
ENSMUSG0000001663	Gstt1	glutathione S-transferase, theta 1	-1.769137712	1.03E-07	1.84E-06
ENSMUSG0000037007	Zfp113	zinc finger protein 113	-0.877161169	1.03E-07	1.85E-06
ENSMUSG0000025890	Smad7	SMAD family member 7	-0.930776624	1.04E-07	1.86E-06
ENSMUSG0000060998	Psm2	proteasome (prosome, macropain) 26S subunit, non-ATPase, 2	0.763115189	1.05E-07	1.89E-06
ENSMUSG0000001833		7-Sep septin 7	0.761184759	1.06E-07	1.89E-06
ENSMUSG0000060860	Ube2s	ubiquitin-conjugating enzyme E2S	0.944279255	1.06E-07	1.90E-06
ENSMUSG0000048249	Crebrf	CREB3 regulatory factor	-0.802937545	1.06E-07	1.90E-06
ENSMUSG0000092397	C130080G10Rik	RIKEN cDNA C130080G10 gene	-2.386103205	1.06E-07	1.90E-06
ENSMUSG0000027878	Notch2	notch 2	-0.857367233	1.06E-07	1.90E-06
ENSMUSG0000043639	Rbm20	RNA binding motif protein 20	-2.631436813	1.08E-07	1.93E-06
ENSMUSG0000024404	Rio3	RIO kinase 3	0.731218253	1.09E-07	1.94E-06
ENSMUSG0000042487	Leo1	Leo1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)	1.394173812	1.09E-07	1.94E-06
ENSMUSG0000021221	Dpi3	D4, zinc and double PHD fingers, family 3	-1.352538103	1.09E-07	1.94E-06
ENSMUSG0000065870	Rnu3a	U3A small nuclear RNA	0.880939059	1.09E-07	1.94E-06
ENSMUSG0000054758	Gm9956	predicted gene 9956	-1.27544729	1.10E-07	1.95E-06
ENSMUSG000004748	Mtfp1	mitochondrial fission process 1	-1.453324212	1.10E-07	1.96E-06
ENSMUSG0000068739	Sars	seryl-aminoacyl-tRNA synthetase	1.114673982	1.11E-07	1.97E-06
ENSMUSG0000050107	Gsg2	germ cell-specific gene 2	2.173473687	1.11E-07	1.97E-06
ENSMUSG0000060548	Tnfrsf19	tumor necrosis factor receptor superfamily, member 19	-2.353877013	1.11E-07	1.97E-06
ENSMUSG0000025494	Sigirr	single immunoglobulin and toll-interleukin 1 receptor (TIR) domain	-1.316364016	1.12E-07	1.98E-06
ENSMUSG0000098090	Z700099C18Rik	RIKEN cDNA Z700099C18 gene	2.037040128	1.12E-07	1.99E-06
ENSMUSG0000031841	Cdh13	cadherin 13	0.930055958	1.13E-07	1.99E-06
ENSMUSG0000021604	Irx4	Iroquois related homeobox 4 (Drosophila)	-1.956995098	1.13E-07	1.99E-06
ENSMUSG0000036438	Calm2	calmodulin 2	0.770506369	1.13E-07	2.00E-06
ENSMUSG0000001020	S100a4	S100 calcium binding protein A4	1.522533916	1.14E-07	2.01E-06
ENSMUSG0000031629	Cenpu	centromere protein U	2.004379677	1.15E-07	2.02E-06
ENSMUSG0000067780	Pi15	peptidase inhibitor 15	1.621295143	1.15E-07	2.03E-06
ENSMUSG0000086058	Unc45bos	unc-45 homolog B (C. elegans), opposite strand	-1.179571303	1.15E-07	2.03E-06
ENSMUSG0000030759	Far1	fatty acyl CoA reductase 1	0.805589262	1.15E-07	2.03E-06
ENSMUSG0000097154	Gm26510	predicted gene, 26510	-1.435569371	1.16E-07	2.04E-06
ENSMUSG00000103313	RP24-88F2.3		1.468022294	1.16E-07	2.04E-06
ENSMUSG0000052767	Gm12703	predicted gene 12703	-1.269548752	1.17E-07	2.05E-06
ENSMUSG0000021895	Arhgef3	Rho guanine nucleotide exchange factor (GEF) 3	-0.765312909	1.18E-07	2.07E-06
ENSMUSG0000046591	Ticrr	TOPBP1-interacting checkpoint and replication regulator	2.583183877	1.18E-07	2.08E-06
ENSMUSG0000026988	Wdsub1	WD repeat, SAM and U-box domain containing 1	-0.881784288	1.20E-07	2.11E-06
ENSMUSG0000033436	Armxc2	armadillo repeat containing, X-linked 2	0.804331439	1.21E-07	2.12E-06
ENSMUSG0000018893	Mb	myoglobin	-1.382274041	1.21E-07	2.13E-06

ENSMUSG00000048636	A730049H05Rik	RIKEN cDNA A730049H05 gene	1.999714973	1.22E-07	2.14E-06
ENSMUSG00000019997	Ctgf	connective tissue growth factor	1.998346643	1.23E-07	2.15E-06
ENSMUSG00000058966	Fam57b	family with sequence similarity 57, member B	-1.32592997	1.23E-07	2.16E-06
ENSMUSG00000021622	Ckmi2	creatine kinase, mitochondrial 2	-1.432883641	1.25E-07	2.18E-06
ENSMUSG00000028438	Kif24	kinesin family member 24	1.562086932	1.25E-07	2.18E-06
ENSMUSG00000041298	Katnal1	katanin p60 subunit A-like 1	-0.8387395	1.26E-07	2.21E-06
ENSMUSG00000024423	Impact	impact, RWD domain protein	-0.800341675	1.27E-07	2.21E-06
ENSMUSG00000056515	Rab31	RAB31, member RAS oncogene family	0.771203022	1.27E-07	2.22E-06
ENSMUSG00000032340	Neo1	neogenin	-0.772252569	1.27E-07	2.22E-06
ENSMUSG00000058498	Rnf207	ring finger protein 207	-3.054110861	1.28E-07	2.22E-06
ENSMUSG00000042976	9930038B18Rik	RIKEN cDNA 9930038B18 gene	-1.355784188	1.30E-07	2.25E-06
ENSMUSG00000069917	Hba-a2	hemoglobin alpha, adult chain 2	-2.258174237	1.29E-07	2.25E-06
ENSMUSG00000011148	Adssl1	adenylosuccinate synthetase like 1	-1.279348286	1.30E-07	2.27E-06
ENSMUSG00000029563	Foxp2	forkhead box P2	-1.678961185	1.31E-07	2.28E-06
ENSMUSG00000024924	Vldlr	very low density lipoprotein receptor	-1.93236269	1.33E-07	2.31E-06
ENSMUSG00000071369	Map3k5	mitogen-activated protein kinase kinase kinase 5	-0.75518025	1.33E-07	2.32E-06
ENSMUSG00000102725	RP24-492O4.4		-1.022119522	1.34E-07	2.32E-06
ENSMUSG00000024056	Ndc80	NDC80 homolog, kinetochore complex component (S. cerevisiae)	2.223547597	1.34E-07	2.32E-06
ENSMUSG00000060961	Slc4a4	solute carrier family 4 (anion exchanger), member 4	-2.122427923	1.35E-07	2.34E-06
ENSMUSG00000027674	Pex5l	peroxisomal biogenesis factor 5-like	-1.541344099	1.37E-07	2.36E-06
ENSMUSG00000097566	A930024N18Rik	RIKEN cDNA A930024N18 gene	-2.218879556	1.37E-07	2.37E-06
ENSMUSG00000030672	Mylpf	myosin light chain, phosphorylatable, fast skeletal muscle	-1.647357318	1.39E-07	2.40E-06
ENSMUSG00000098234	Snhg6	small nucleolar RNA host gene 6	0.903183019	1.39E-07	2.41E-06
ENSMUSG00000026707	Nsun6	NOL1/NOP2/Sun domain family member 6	-0.840977892	1.40E-07	2.41E-06
ENSMUSG00000028572	Hook1	hook homolog 1 (Drosophila)	-1.497501099	1.40E-07	2.42E-06
ENSMUSG00000019838	Slc16a10	solute carrier family 16 (monocarboxylic acid transporters), member 10	-1.565965157	1.41E-07	2.42E-06
ENSMUSG00000032495	Lrrc2	leucine rich repeat containing 2	-1.922639282	1.40E-07	2.42E-06
ENSMUSG00000043873	Chil5	chitinase-like 5	-3.20369095	1.42E-07	2.44E-06
ENSMUSG00000055067	Smyd3	SET and MYND domain containing 3	-0.916186236	1.42E-07	2.45E-06
ENSMUSG00000023272	Creld2	cysteine-rich with EGF-like domains 2	0.863786843	1.43E-07	2.46E-06
ENSMUSG00000038564	Ift172	intraflagellar transport 172	-0.78517444	1.44E-07	2.48E-06
ENSMUSG00000031353	Rbbp7	retinoblastoma binding protein 7	0.794610235	1.46E-07	2.51E-06
ENSMUSG00000032246	Calml4	calmodulin-like 4	-2.125542905	1.48E-07	2.54E-06
ENSMUSG00000038608	Dock10	dedicator of cytokinesis 10	-0.872438554	1.49E-07	2.56E-06
ENSMUSG00000054723	Vmac	vimentin-type intermediate filament associated coiled-coil protein	-0.95321336	1.50E-07	2.58E-06
ENSMUSG00000028334	Nans	N-acetylneuraminic acid synthase (sialic acid synthase)	0.865161374	1.50E-07	2.58E-06
ENSMUSG00000035314	Gdpd5	glycerophosphodiester phosphodiesterase domain containing 5	1.142229505	1.52E-07	2.61E-06
ENSMUSG00000037149	Ddx1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 1	0.776983463	1.53E-07	2.62E-06
ENSMUSG00000079111	Kdelr2	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2	0.771415492	1.54E-07	2.63E-06
ENSMUSG00000034387	Ssu2	ssu-2 homolog (C. elegans)	-0.950731252	1.56E-07	2.67E-06
ENSMUSG00000029407	Uso1	USO1 vesicle docking factor	0.761984554	1.57E-07	2.69E-06
ENSMUSG00000000142	Axin2	axin2	-1.408965715	1.60E-07	2.73E-06
ENSMUSG00000041757	Plekha6	pleckstrin homology domain containing, family A member 6	-2.03139526	1.60E-07	2.74E-06
ENSMUSG00000021569	Trtp13	thyroid hormone receptor interactor 13	2.204587301	1.61E-07	2.75E-06
ENSMUSG00000017715	Pgs1	phosphatidylglycerophosphate synthase 1	0.773120347	1.61E-07	2.75E-06
ENSMUSG00000015653	Steap2	six transmembrane epithelial antigen of prostate 2	1.627482345	1.63E-07	2.78E-06
ENSMUSG00000054074	Skida1	SKI/DACH domain containing 1	-0.881717966	1.63E-07	2.78E-06
ENSMUSG00000022621	Rab12	RAB, member RAS oncogene family-like 2	1.006550211	1.65E-07	2.81E-06
ENSMUSG00000036386	Ccl2	chemokine (C-C motif) ligand 2	2.405774934	1.66E-07	2.82E-06
ENSMUSG00000030162	Olr1	oxidized low density lipoprotein (lectin-like) receptor 1	1.933678157	1.66E-07	2.83E-06
ENSMUSG00000024349	Tmem173	transmembrane protein 173	0.794961797	1.68E-07	2.86E-06
ENSMUSG00000005534	Insr	insulin receptor	-0.78365901	1.69E-07	2.87E-06
ENSMUSG00000072082	Ccnf	cyclin F	2.547980694	1.71E-07	2.90E-06
ENSMUSG00000030536	Iqgap1	IQ motif containing GTPase activating protein 1	0.735834876	1.73E-07	2.94E-06
ENSMUSG00000041477	Dep1b	DCP1 decapping enzyme homolog B (S. cerevisiae)	-0.848610765	1.75E-07	2.96E-06
ENSMUSG00000026274	Pask	PAS domain containing serine/threonine kinase	1.936602471	1.76E-07	2.98E-06
ENSMUSG00000038256	Bcl9	B cell CLL/lymphoma 9	-1.039153263	1.77E-07	3.00E-06
ENSMUSG00000052397	Ezr	ezrin	0.840962607	1.82E-07	3.08E-06
ENSMUSG00000029299	Abcg3	ATP-binding cassette, sub-family G (WHITE), member 3	-1.904682149	1.83E-07	3.10E-06
ENSMUSG00000020362	Cnot6	CCR4-NOT transcription complex, subunit 6	0.774331993	1.83E-07	3.10E-06
ENSMUSG00000026930	Gpsm1	G-protein signalling modulator 1 (AGS3-like, C. elegans)	-0.985363476	1.84E-07	3.11E-06
ENSMUSG00000005373	Mixlpl	MLX interacting protein-like	-3.022463542	1.85E-07	3.12E-06
ENSMUSG00000003721	Insig2	insulin induced gene 2	0.77097573	1.86E-07	3.14E-06
ENSMUSG00000038467	Chmp4b	charged multivesicular body protein 4B	0.725025504	1.88E-07	3.17E-06
ENSMUSG00000035697	Hmha1	histocompatibility (minor) HA-1	-1.187511009	1.89E-07	3.18E-06
ENSMUSG00000002396	Ocel1	occludin/ELL domain containing 1	-0.898340867	1.89E-07	3.19E-06
ENSMUSG00000030717	Nupr1	nuclear protein transcription regulator 1	1.800086207	1.91E-07	3.22E-06
ENSMUSG00000034799	Unc13a	unc-13 homolog A (C. elegans)	1.897755588	1.92E-07	3.23E-06
ENSMUSG00000037016	Frem2	Fras1 related extracellular matrix protein 2	-1.45571233	1.92E-07	3.23E-06
ENSMUSG00000032412	Atp1b3	ATPase, Na+/K+ transporting, beta 3 polypeptide	0.75736862	1.92E-07	3.23E-06
ENSMUSG00000034932	Mrp154	mitochondrial ribosomal protein L54	1.050892944	1.92E-07	3.23E-06
ENSMUSG00000007655	Cav1	caveolin 1, caveolae protein	0.74569702	1.93E-07	3.24E-06
ENSMUSG00000031448	Adprh1	ADP-ribosylhydrolase like 1	-2.291466003	1.98E-07	3.32E-06

ENSMUSG0000024966	Stip1	stress-induced phosphoprotein 1	0.925641365	1.99E-07	3.33E-06
ENSMUSG0000028015	Ctso	cathepsin O	-0.765230242	2.03E-07	3.40E-06
ENSMUSG0000050549	5730508B09Rik	RIKEN cDNA 5730508B09 gene	0.876037197	2.04E-07	3.41E-06
ENSMUSG0000039157	Fam102a	family with sequence similarity 102, member A	-0.832123493	2.06E-07	3.44E-06
ENSMUSG0000034807	Colgalt1	collagen beta(1-O)galactosyltransferase 1	0.744680525	2.09E-07	3.49E-06
ENSMUSG0000047976	Kcna1	potassium voltage-gated channel, shaker-related subfamily, member 1	-2.020507806	2.09E-07	3.49E-06
ENSMUSG0000023940	Sgol1	shugoshin-like 1 (S. pombe)	2.553255455	2.09E-07	3.50E-06
ENSMUSG0000050721	Plekho2	pleckstrin homology domain containing, family O member 2	0.953778295	2.10E-07	3.50E-06
ENSMUSG0000006241	Ccdc159	coiled-coil domain containing 159	-1.413409792	2.12E-07	3.53E-06
ENSMUSG0000027671	Actl6a	actin-like 6A	0.80422019	2.18E-07	3.63E-06
ENSMUSG0000043885	Slc36a4	solute carrier family 36 (proton/amino acid symporter), member 4	0.72611047	2.19E-07	3.66E-06
ENSMUSG0000029167	Ppargc1a	peroxisome proliferative activated receptor, gamma, coactivator 1 alpha	-2.1240661	2.21E-07	3.67E-06
ENSMUSG0000054263	Lifr	leukemia inhibitory factor receptor	-0.719871393	2.21E-07	3.68E-06
ENSMUSG0000062727	Hist1h2bk	histone cluster 1, H2bk	2.547163668	2.23E-07	3.72E-06
ENSMUSG0000042228	Lyn	Yamaguchi sarcoma viral (v-yes-1) oncogene homolog	0.740630267	2.28E-07	3.80E-06
ENSMUSG0000022757	Tf1g	Trk-fused gene	0.786253315	2.29E-07	3.80E-06
ENSMUSG0000029287	Tgfbr3	transforming growth factor, beta receptor III	0.71629129	2.29E-07	3.80E-06
ENSMUSG0000022419	Deptor	DEP domain containing MTOR-interacting protein	-0.723570351	2.29E-07	3.80E-06
ENSMUSG0000086265	Marcks1-ps4	MARCKS-like 1, pseudogene 4	-4.493226972	2.31E-07	3.83E-06
ENSMUSG0000024425	Ndfip1	Nedd4 family interacting protein 1	0.751210481	2.32E-07	3.84E-06
ENSMUSG0000020349	Ppp2ca	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform	0.728004795	2.32E-07	3.85E-06
ENSMUSG0000042529	Kcnj12	potassium inwardly-rectifying channel, subfamily J, member 12	-1.924396982	2.33E-07	3.85E-06
ENSMUSG0000097266	Gm26802	predicted gene, 26802	-1.364520691	2.34E-07	3.87E-06
ENSMUSG0000027861	Casq2	calcineurin 2	-1.010539536	2.34E-07	3.88E-06
ENSMUSG0000039662	Icmt	isoprenylcysteine carboxyl methyltransferase	0.727708062	2.35E-07	3.88E-06
ENSMUSG0000050541	Adra1b	adrenergic receptor, alpha 1b	-2.507213333	2.35E-07	3.88E-06
ENSMUSG0000025537	Phkg1	phosphorylase kinase gamma 1	-1.969322884	2.35E-07	3.88E-06
ENSMUSG0000020744	Slc25a19	solute carrier family 25 (mitochondrial thiamine pyrophosphate carrier), member 19	-0.887600079	2.36E-07	3.90E-06
ENSMUSG0000037822	Smim14	small integral membrane protein 14	-0.802476064	2.41E-07	3.97E-06
ENSMUSG0000034220	Gpc1	glypican 1	-1.591149961	2.41E-07	3.97E-06
ENSMUSG0000037185	Krt80	keratin 80	-2.19432045	2.41E-07	3.97E-06
ENSMUSG0000042489	Clspn	claspin	2.589911572	2.41E-07	3.97E-06
ENSMUSG0000059427	Cxcl2	chemokine (C-X-C motif) ligand 2	1.703075852	2.44E-07	4.02E-06
ENSMUSG0000058569	Tmed9	transmembrane emp24 protein transport domain containing 9	0.734824602	2.44E-07	4.02E-06
ENSMUSG0000021024	Psmc6	proteasome (prosome, macropain) subunit, alpha type 6	0.759521238	2.47E-07	4.05E-06
ENSMUSG0000011382	Dhdh	dihydrodiol dehydrogenase (dimeric)	-1.045597892	2.51E-07	4.12E-06
ENSMUSG0000012640	Zfp715	zinc finger protein 715	-0.699609328	2.53E-07	4.15E-06
ENSMUSG0000005580	Adcy9	adenylate cyclase 9	-0.828692442	2.54E-07	4.16E-06
ENSMUSG0000071177	Serpina1d	serine (or cysteine) peptidase inhibitor, clade A, member 1D	-inf	2.54E-07	4.16E-06
ENSMUSG0000021474	Sfxn1	sideroflexin 1	0.792480262	2.58E-07	4.23E-06
ENSMUSG0000028005	Gucy1b3	guanylate cyclase 1, soluble, beta 3	-0.784306684	2.58E-07	4.23E-06
ENSMUSG00000103696	RP23-27C10.2		-1.505425556	2.59E-07	4.24E-06
ENSMUSG0000038286	Bphl	biphenyl hydrolase-like (serine hydrolase, breast epithelial mucin-associated antigen)	-1.058115539	2.61E-07	4.27E-06
ENSMUSG0000004897	Hdgf	hepatoma-derived growth factor	0.776319277	2.62E-07	4.28E-06
ENSMUSG00000066456	Hmgn3	high mobility group nucleosomal binding domain 3	0.874943672	2.62E-07	4.28E-06
ENSMUSG0000038421	Fcrla	Fc receptor-like A	-1.858473802	2.65E-07	4.32E-06
ENSMUSG0000039953	Clistn1	calsyntenin 1	-1.002139281	2.67E-07	4.36E-06
ENSMUSG0000032118	Fez1	fasciculation and elongation protein zeta 1 (zyglin I)	-0.897592461	2.68E-07	4.37E-06
ENSMUSG0000045672	Col27a1	collagen, type XXVII, alpha 1	1.558802601	2.68E-07	4.37E-06
ENSMUSG0000032942	Ucp3	uncoupling protein 3 (mitochondrial, proton carrier)	-3.622674832	2.70E-07	4.40E-06
ENSMUSG0000069808	Fam57a	family with sequence similarity 57, member A	0.834489266	2.73E-07	4.44E-06
ENSMUSG0000001665	Gstt3	glutathione S-transferase, theta 3	-0.947690364	2.76E-07	4.50E-06
ENSMUSG0000025478	Dpysl4	dihydropyrimidinase-like 4	-2.657009506	2.77E-07	4.50E-06
ENSMUSG0000027589	Pcmd2	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 2	-0.752508129	2.78E-07	4.52E-06
ENSMUSG0000032002	Dcun1d5	DCN1, defective in cullin neddylation 1, domain containing 5 (S. cerevisiae)	0.779306943	2.81E-07	4.56E-06
ENSMUSG0000090799	Kihl33	kelch-like 33	-3.861054332	2.83E-07	4.60E-06
ENSMUSG00000051220	Erc6l	excision repair cross-complementing rodent repair deficiency complementation group 6 like	1.704665782	2.85E-07	4.63E-06
ENSMUSG0000020914	Top2a	topoisomerase (DNA) II alpha	2.746164691	2.88E-07	4.66E-06
ENSMUSG0000035049	Rrp12	ribosomal RNA processing 12 homolog (S. cerevisiae)	0.864876365	2.88E-07	4.66E-06
ENSMUSG0000024871	Dcc2g	double C2, gamma	-1.837348071	2.88E-07	4.67E-06
ENSMUSG0000029765	Plxn4	plexin A4	0.693125218	2.89E-07	4.68E-06
ENSMUSG0000029371	Cxcl5	chemokine (C-X-C motif) ligand 5	3.081626504	2.90E-07	4.69E-06
ENSMUSG0000032477	Cdc25a	cell division cycle 25A	0.937617088	2.95E-07	4.77E-06
ENSMUSG0000001424	Snd1	staphylococcal nuclease and tudor domain containing 1	0.730380546	2.95E-07	4.77E-06
ENSMUSG0000068037	Mas1	MAS1 oncogene	-4.981511927	2.97E-07	4.79E-06
ENSMUSG0000020368	Canx	calnexin	0.748670307	2.98E-07	4.81E-06
ENSMUSG0000022309	Angpt1	angiopoietin 1	-1.503120221	2.99E-07	4.83E-06
ENSMUSG00000031246	Sh3bgrl	SH3-binding domain glutamic acid-rich protein like	0.735617841	3.04E-07	4.90E-06
ENSMUSG0000032842	Abcc10	ATP-binding cassette, sub-family C (CFTR/MRP), member 10	-1.157602176	3.05E-07	4.91E-06
ENSMUSG0000052316	Lrrc15	leucine rich repeat containing 15	-3.086697689	3.07E-07	4.94E-06
ENSMUSG00000085148	Mir22hg	Mir22 host gene (non-protein coding)	0.817478101	3.08E-07	4.96E-06
ENSMUSG0000005465	Il27ra	interleukin 27 receptor, alpha	-0.795777893	3.17E-07	5.10E-06
ENSMUSG0000022504	Ctita	class II transactivator	-2.164955619	3.20E-07	5.14E-06

ENSMUSG00000024019	Cmtr1	cap methyltransferase 1	-0.839132358	3.24E-07	5.20E-06
ENSMUSG00000063600	Egfem1	EGF-like and EMI domain containing 1	2.95553658	3.24E-07	5.21E-06
ENSMUSG00000053199	Arhgap20	Rho GTPase activating protein 20	-1.87589553	3.27E-07	5.24E-06
ENSMUSG00000031938	4931406C07Rik	RIKEN cDNA 4931406C07 gene	0.844425785	3.28E-07	5.26E-06
ENSMUSG00000035296	Sgcg	sarcoglycan, gamma (dystrophin-associated glycoprotein)	-1.671961454	3.30E-07	5.28E-06
ENSMUSG00000038379	Ttk	Ttk protein kinase	2.757542419	3.32E-07	5.31E-06
ENSMUSG00000009654	Oit3	oncprotein induced transcript 3	3.336510963	3.34E-07	5.34E-06
ENSMUSG00000093843	Gm25939	predicted gene, 25939	0.838556751	3.34E-07	5.34E-06
ENSMUSG00000032719	Sbspon	somatomedin B and thrombospondin, type 1 domain containing	-3.152674445	3.35E-07	5.36E-06
ENSMUSG00000000154	Slc22a18	solute carrier family 22 (organic cation transporter), member 18	-2.223642578	3.38E-07	5.40E-06
ENSMUSG00000033970	Rfc3	replication factor C (activator 1) 3	1.067681312	3.39E-07	5.42E-06
ENSMUSG00000028066	Pmf1	polyamine-modulated factor 1	1.180150845	3.40E-07	5.43E-06
ENSMUSG00000031283	Chrd1	chordin-like 1	-1.78806531	3.40E-07	5.43E-06
ENSMUSG00000034714	Ttyh2	tweety homolog 2 (Drosophila)	0.762198179	3.40E-07	5.43E-06
ENSMUSG00000034751	Mast4	microtubule associated serine/threonine kinase family member 4	0.696452977	3.41E-07	5.43E-06
ENSMUSG00000038816	Cnnal1	catenin (cadherin associated protein), alpha-like 1	-0.898288812	3.41E-07	5.44E-06
ENSMUSG00000024235	Map3k8	mitogen-activated protein kinase kinase kinase 8	0.743145188	3.41E-07	5.44E-06
ENSMUSG00000028780	Sema3c	sema domain, immunoglobulin domain (lg), short basic domain, secreted, (semaphorin) 3C	-1.423474273	3.42E-07	5.45E-06
ENSMUSG00000026587	Astn1	astroactin 1	-0.873663697	3.45E-07	5.49E-06
ENSMUSG00000034614	Pik3ip1	phosphoinositide-3-kinase interacting protein 1	-1.716365016	3.47E-07	5.52E-06
ENSMUSG00000041351	Rap1gap	Rap1 GTPase-activating protein	-2.413905418	3.48E-07	5.54E-06
ENSMUSG00000031562	Dctd	dCMP deaminase	1.324189224	3.49E-07	5.54E-06
ENSMUSG00000029177	Cenpa	centromere protein A	1.310656954	3.49E-07	5.54E-06
ENSMUSG00000091694	Apol11b	apolipoprotein L 11b	-2.51115888	3.52E-07	5.58E-06
ENSMUSG00000071178	Serpina1b	serine (or cysteine) preptidase inhibitor, clade A, member 1B	-7.472944746	3.57E-07	5.66E-06
ENSMUSG00000021592	Arsk	arylsulfatase K	-0.782341094	3.60E-07	5.71E-06
ENSMUSG00000033327	Tnxb	tenascin XB	-1.747750769	3.61E-07	5.71E-06
ENSMUSG00000048965	Mrgpre	MAS-related GPR, member E	-1.017659188	3.63E-07	5.75E-06
ENSMUSG00000043003	Rasef	RAS and EF hand domain containing	1.827110864	3.64E-07	5.76E-06
ENSMUSG00000068585	Cdt1	chromatin licensing and DNA replication factor 1	1.048248765	3.64E-07	5.76E-06
ENSMUSG00000031402	Mpp1	membrane protein, palmitoylated	0.753553177	3.67E-07	5.80E-06
ENSMUSG00000024640	Psat1	phosphoserine aminotransferase 1	1.737206742	3.68E-07	5.81E-06
ENSMUSG00000028497	Ptlad2	protein tyrosine phosphatase-like A domain containing 2	-0.874114725	3.74E-07	5.90E-06
ENSMUSG00000097039	Pvt1	plasmacytoma variant translocation 1	1.099975395	3.74E-07	5.90E-06
ENSMUSG00000045954	Sdpr	serum deprivation response	-0.707245572	3.75E-07	5.90E-06
ENSMUSG00000037035	Inhbb	inhibin beta-B	4.603596352	3.77E-07	5.94E-06
ENSMUSG00000054920	Klhl5	kelch-like 5	-0.740063565	3.77E-07	5.94E-06
ENSMUSG00000027326	Casc5	cancer susceptibility candidate 5	2.576226334	3.79E-07	5.97E-06
ENSMUSG00000024679	Ms4a6d	membrane-spanning 4-domains, subfamily A, member 6D	2.061784806	3.79E-07	5.97E-06
ENSMUSG00000027792	Bche	butyrylcholinesterase	-1.720700143	3.82E-07	6.00E-06
ENSMUSG00000007877	Tcap	titin-cap	-2.487118272	3.86E-07	6.07E-06
ENSMUSG00000058388	Phf1f	putative homeodomain transcription factor 1	0.737588285	3.88E-07	6.09E-06
ENSMUSG00000036863	Syde2	synapse defective 1, Rho GTPase, homolog 2 (C. elegans)	-1.922807657	3.90E-07	6.11E-06
ENSMUSG00000052821	Cysltr1	cysteinyl leukotriene receptor 1	-1.244178359	3.90E-07	6.11E-06
ENSMUSG00000021263	Deqs2	degenerative spermatocyte homolog 2 (Drosophila), lipid desaturase	-1.846874682	3.91E-07	6.12E-06
ENSMUSG00000024665	Fads2	fatty acid desaturase 2	0.95726175	3.91E-07	6.13E-06
ENSMUSG00000005540	Fcer2a	Fc receptor, IgE, low affinity II, alpha polypeptide	-1.917716871	3.96E-07	6.20E-06
ENSMUSG00000071856	Mcc	mutated in colorectal cancers	-0.781582681	3.97E-07	6.21E-06
ENSMUSG00000025044	Msr1	macrophage scavenger receptor 1	1.418860901	4.02E-07	6.29E-06
ENSMUSG00000027195	Hsd17b12	hydroxysteroid (17-beta) dehydrogenase 12	0.838245614	4.02E-07	6.29E-06
ENSMUSG00000031004	Mki67	antigen identified by monoclonal antibody Ki 67	2.629540264	4.03E-07	6.30E-06
ENSMUSG00000034997	Htr2a	5-hydroxytryptamine (serotonin) receptor 2A	-1.31264387	4.03E-07	6.30E-06
ENSMUSG00000070056	Mfhas1	malignant fibrous histiocytoma amplified sequence 1	-0.770139903	4.05E-07	6.32E-06
ENSMUSG00000020736	Nt5c	5'-3'-nucleotidase, cytosolic	0.884557468	4.06E-07	6.34E-06
ENSMUSG00000020541	Tom11l	target of myb1-like 1 (chicken)	-1.681131792	4.09E-07	6.37E-06
ENSMUSG00000042073	Abhd14b	abhydrolase domain containing 14b	-0.840070406	4.10E-07	6.39E-06
ENSMUSG00000036781	Rps27l	ribosomal protein S27-like	0.788389027	4.10E-07	6.39E-06
ENSMUSG00000056418	BC043934	cDNA sequence BC043934	-1.419689506	4.11E-07	6.40E-06
ENSMUSG00000044574	5031434C07Rik	RIKEN cDNA 5031434C07 gene	-1.928131201	4.12E-07	6.40E-06
ENSMUSG00000011305	Plin5	perilipin 5	-1.789392141	4.14E-07	6.43E-06
ENSMUSG00000029685	Asb15	ankyrin repeat and SOCS box-containing 15	-2.49571144	4.15E-07	6.45E-06
ENSMUSG00000045273	Cenph	centromere protein H	2.00627837	4.16E-07	6.46E-06
ENSMUSG00000002346	Slc25a42	solute carrier family 25, member 42	-2.493353346	4.18E-07	6.48E-06
ENSMUSG00000031778	Cx3cl1	chemokine (C-X3-C motif) ligand 1	0.738934428	4.19E-07	6.49E-06
ENSMUSG00000015659	Serac1	serine active site containing 1	-0.883935262	4.21E-07	6.53E-06
ENSMUSG00000008333	Snrb2	U2 small nuclear ribonucleoprotein B	0.784304327	4.25E-07	6.58E-06
ENSMUSG00000085028	Slc2a4rg-ps	Slc2a4 regulator, pseudogene	-0.761203223	4.26E-07	6.60E-06
ENSMUSG00000029201	Ugdh	UDP-glucose dehydrogenase	0.787542748	4.27E-07	6.60E-06
ENSMUSG00000028745	Capzb	capping protein (actin filament) muscle Z-line, beta	0.706028182	4.27E-07	6.61E-06
ENSMUSG00000013698	Pea15a	phosphoprotein enriched in astrocytes 15A	0.709714645	4.31E-07	6.66E-06
ENSMUSG00000078521	Aunip	aurora kinase A and ninein interacting protein	3.122200247	4.34E-07	6.70E-06
ENSMUSG00000031875	Cmtm3	CKLF-like MARVEL transmembrane domain containing 3	0.734738828	4.36E-07	6.73E-06
ENSMUSG00000042589	Cux2	cut-like homeobox 2	-2.50247147	4.37E-07	6.74E-06

ENSMUSG00000024795	Kif20b	kinesin family member 20B	2.179052587	4.37E-07	6.74E-06
ENSMUSG00000039470	Zdhc2	zinc finger, DHHC domain containing 2	1.219273771	4.38E-07	6.75E-06
ENSMUSG00000029126	Nsg1	neuron specific gene family member 1	0.762627593	4.38E-07	6.75E-06
ENSMUSG00000041781	Cpsf2	cleavage and polyadenylation specific factor 2	0.781507683	4.45E-07	6.85E-06
ENSMUSG00000009687	Fxyd5	FX1D domain-containing ion transport regulator 5	0.721127275	4.45E-07	6.85E-06
ENSMUSG000000086040	Wipf3	WAS/WASL interacting protein family, member 3	-1.034497206	4.45E-07	6.85E-06
ENSMUSG00000034675	Dbn1	drebrin 1	2.871596488	4.46E-07	6.86E-06
ENSMUSG000000058672	Tubb2a	tubulin, beta 2A class IIA	0.793944813	4.46E-07	6.86E-06
ENSMUSG00000038335	Tsr1	TSR1 20S rRNA accumulation	0.903972436	4.48E-07	6.87E-06
ENSMUSG00000042590	Ipo11	importin 11	0.740996585	4.52E-07	6.94E-06
ENSMUSG00000031840	Rab3a	RAB3A, member RAS oncogene family	-0.968828963	4.52E-07	6.94E-06
ENSMUSG000000086591	Dnah2os	dynein, axonemal, heavy chain 2, opposite strand	1.092358042	4.55E-07	6.97E-06
ENSMUSG00000004698	Hdac9	histone deacetylase 9	-0.80845681	4.55E-07	6.97E-06
ENSMUSG000000025488	Cox8b	cytochrome c oxidase subunit VIIIb	-1.527361941	4.57E-07	6.99E-06
ENSMUSG000000042249	Adrbk2	adrenergic receptor kinase, beta 2	-0.963093033	4.57E-07	6.99E-06
ENSMUSG000000031389	Arhgap4	Rho GTPase activating protein 4	-1.335547811	4.59E-07	7.02E-06
ENSMUSG000000033735	Spr	sepiapterin reductase	-0.865281886	4.60E-07	7.03E-06
ENSMUSG000000021890	Eaf1	ELL associated factor 1	0.73623744	4.69E-07	7.17E-06
ENSMUSG000000090841	Myf6	myosin, light polypeptide 6, alkali, smooth muscle and non-muscle	0.74716446	4.70E-07	7.18E-06
ENSMUSG000000021057	Akap5	A kinase (PRKA) anchor protein 5	-1.245528441	4.72E-07	7.20E-06
ENSMUSG000000034429	Zfp707	zinc finger protein 707	-0.956328835	4.73E-07	7.22E-06
ENSMUSG000000054320	Lrrc36	leucine rich repeat containing 36	1.555037033	4.74E-07	7.23E-06
ENSMUSG000000050822	Slc29a4	solute carrier family 29 (nucleoside transporters), member 4	-2.065039091	4.76E-07	7.26E-06
ENSMUSG000000058248	Kcnh1	potassium voltage-gated channel, subfamily H (eag-related), member 1	1.660457287	4.77E-07	7.27E-06
ENSMUSG00000019194	Scn1b	sodium channel, voltage-gated, type I, beta	1.228083138	4.78E-07	7.27E-06
ENSMUSG000000053317	Sec61b	Sec61 beta subunit	0.955034667	4.79E-07	7.30E-06
ENSMUSG000000069874	Irgm2	immunity-related GTPase family M member 2	-0.691284482	4.82E-07	7.32E-06
ENSMUSG000000009210	2310007L24Rik	RIKEN cDNA 2310007L24 gene	-3.2533319	4.83E-07	7.34E-06
ENSMUSG000000028312	Smc2	structural maintenance of chromosomes 2	1.737307841	4.84E-07	7.35E-06
ENSMUSG000000042029	Ncapg2	non-SMC condensin II complex, subunit G2	2.075637827	4.87E-07	7.38E-06
ENSMUSG000000042359	Osbpl6	oxysterol binding protein-like 6	-1.694115935	4.87E-07	7.38E-06
ENSMUSG00000014503	Pkd2l2	polycystic kidney disease 2-like 2	-3.091906919	4.87E-07	7.39E-06
ENSMUSG000000068749	PsmA5	proteasome (prosome, macropain) subunit, alpha type 5	0.868875155	4.89E-07	7.41E-06
ENSMUSG000000026697	Myoc	myocilin	-2.79728432	4.91E-07	7.43E-06
ENSMUSG000000024325	Ring1	ring finger protein 1	-0.92641151	4.93E-07	7.47E-06
ENSMUSG000000030095	Tmem43	transmembrane protein 43	0.705294381	4.96E-07	7.51E-06
ENSMUSG000000007029	Vars	valyl-tRNA synthetase	0.806431711	4.99E-07	7.54E-06
ENSMUSG000000033182	Kbtbd12	kelch repeat and BTB (POZ) domain containing 12	-2.755950932	5.00E-07	7.56E-06
ENSMUSG000000024644	Cndp2	CNDP dipeptidase 2 (metallopeptidase M20 family)	0.758302832	5.06E-07	7.64E-06
ENSMUSG000000048731	Ggnbp1	gametogenetin binding protein 1	-2.344444865	5.07E-07	7.65E-06
ENSMUSG000000026096	Osgpl1	O-sialoglycoprotein endopeptidase-like 1	-0.867245092	5.09E-07	7.67E-06
ENSMUSG000000046722	Cdc42se1	CDC42 small effector 1	0.716260881	5.18E-07	7.81E-06
ENSMUSG000000030713	Klk7	kallikrein related-peptidase 7 (chymotryptic, stratum corneum)	-3.789914473	5.22E-07	7.86E-06
ENSMUSG000000006576	Slc4a3	solute carrier family 4 (anion exchanger), member 3	-2.029171218	5.22E-07	7.87E-06
ENSMUSG000000033871	Ppargc1b	peroxisome proliferative activated receptor, gamma, coactivator 1 beta	-2.504689756	5.23E-07	7.88E-06
ENSMUSG00000028639	Lamb3	laminin, beta 3	-2.432486099	5.28E-07	7.94E-06
ENSMUSG000000047298	Kcnv2	potassium channel, subfamily V, member 2	-3.073022094	5.29E-07	7.97E-06
ENSMUSG000000022905	Kpna1	karyopherin (importin) alpha 1	0.720500766	5.31E-07	7.98E-06
ENSMUSG000000032932	Hspa13	heat shock protein 70 family, member 13	0.762318066	5.51E-07	8.29E-06
ENSMUSG000000072294	Klf12	Kruppel-like factor 12	-0.758652101	5.52E-07	8.29E-06
ENSMUSG000000024781	Lipa	lysosomal acid lipase A	0.707631024	5.54E-07	8.31E-06
ENSMUSG000000030688	Stard10	START domain containing 10	-1.432523738	5.54E-07	8.31E-06
ENSMUSG000000031578	Mak16	MAK16 homolog (S. cerevisiae)	0.785726738	5.58E-07	8.36E-06
ENSMUSG000000029178	Klf3	Kruppel-like factor 3 (basic)	-0.768837813	5.64E-07	8.45E-06
ENSMUSG000000029162	Khk	ketoheokinase	-1.325411098	5.67E-07	8.49E-06
ENSMUSG000000045751	Mms22l	MMS22-like, DNA repair protein	1.885913148	5.68E-07	8.50E-06
ENSMUSG000000031885	Cbfb	core binding factor beta	0.748426242	5.69E-07	8.51E-06
ENSMUSG000000063450	Syne2	spectrin repeat containing, nuclear envelope 2	-0.679439459	5.71E-07	8.53E-06
ENSMUSG000000038403	Hfe2	hemochromatosis type 2 (juvenile) (human homolog)	-1.985276832	5.70E-07	8.53E-06
ENSMUSG000000020185	E2f7	E2F transcription factor 7	0.804492853	5.75E-07	8.59E-06
ENSMUSG000000027115	Kif18a	kinesin family member 18A	1.402133665	5.83E-07	8.70E-06
ENSMUSG000000097601	Gm26660	predicted gene, 26660	-1.801165787	5.83E-07	8.70E-06
ENSMUSG000000097652	Mhrt	myosin heavy chain associated RNA transcript	-3.15587817	5.84E-07	8.71E-06
ENSMUSG000000044807	Zfp354c	zinc finger protein 354C	-0.878901726	5.85E-07	8.72E-06
ENSMUSG000000030082	Sec61a1	Sec61 alpha 1 subunit (S. cerevisiae)	0.70766705	5.86E-07	8.74E-06
ENSMUSG000000007379	Dennd2c	DENND/MADD domain containing 2C	-0.776819562	5.88E-07	8.76E-06
ENSMUSG000000046324	Ermp1	endoplasmic reticulum metallopeptidase 1	0.809024765	5.94E-07	8.84E-06
ENSMUSG000000000983	Wfdc18	WAP four-disulfide core domain 18	5.08424709	5.96E-07	8.85E-06
ENSMUSG000000025610	Map3k7cl	Map3k7 C-terminal like	-0.905985637	5.95E-07	8.85E-06
ENSMUSG000000028601	Echdc2	enoyl Coenzyme A hydratase domain containing 2	-2.497454489	5.95E-07	8.85E-06
ENSMUSG000000020580	Rock2	Rho-associated coiled-coil containing protein kinase 2	0.693741738	5.96E-07	8.86E-06
ENSMUSG000000027932	Slc27a3	solute carrier family 27 (fatty acid transporter), member 3	-1.344432685	5.99E-07	8.90E-06
ENSMUSG000000073563	Csnk1g3	casein kinase 1, gamma 3	0.752461685	6.00E-07	8.90E-06

ENSMUSG00000061462	Obscn	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF	-2.351165958	6.02E-07	8.94E-06
ENSMUSG00000078307	Al593442	expressed sequence Al593442	-2.009486588	6.05E-07	8.97E-06
ENSMUSG00000025314	Ptpri	protein tyrosine phosphatase, receptor type, J	-0.813423845	6.11E-07	9.05E-06
ENSMUSG00000004508	Gab2	growth factor receptor bound protein 2-associated protein 2	0.680835593	6.13E-07	9.08E-06
ENSMUSG00000036594	H2-Aa	histocompatibility 2, class II antigen A, alpha	-1.545242198	6.15E-07	9.10E-06
ENSMUSG00000042626	Shc1	src homology 2 domain-containing transforming protein C1	0.712321395	6.17E-07	9.13E-06
ENSMUSG000000032198	Dock6	dedicator of cytokinesis 6	-1.12782099	6.21E-07	9.18E-06
ENSMUSG000000060675	Pla2g16	phospholipase A2, group XVI	-0.760951672	6.23E-07	9.21E-06
ENSMUSG00000032802	Srxn1	sulfiredoxin 1 homolog (S. cerevisiae)	0.737569837	6.28E-07	9.27E-06
ENSMUSG000000039763	Dnajc28	DnaJ (Hsp40) homolog, subfamily C, member 28	-1.009207511	6.35E-07	9.37E-06
ENSMUSG00000002625	Akap8l	A kinase (PRKA) anchor protein 8-like	-0.748731058	6.35E-07	9.37E-06
ENSMUSG00000031555	Adam9	a disintegrin and metallopeptidase domain 9 (meltrin gamma)	0.715367813	6.45E-07	9.51E-06
ENSMUSG00000035704	Alg8	asparagine-linked glycosylation 8 (alpha-1,3-glucosyltransferase)	1.098022147	6.50E-07	9.58E-06
ENSMUSG00000029875	Ccdc184	coiled-coil domain containing 184	1.54673679	6.51E-07	9.58E-06
ENSMUSG00000019990	Pde7b	phosphodiesterase 7B	-0.912422269	6.51E-07	9.58E-06
ENSMUSG00000002741	Ykt6	YKT6 homolog (S. Cerevisiae)	0.715156191	6.55E-07	9.64E-06
ENSMUSG00000103144	Pcdhga1	protocadherin gamma subfamily A, 1	-0.899396544	6.56E-07	9.65E-06
ENSMUSG00000058793	Cds2	CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 2	-0.732081784	6.65E-07	9.78E-06
ENSMUSG00000019850	Tnfrap3	tumor necrosis factor, alpha-induced protein 3	0.941048068	6.69E-07	9.83E-06
ENSMUSG00000033032	Afp1l1	actin filament associated protein 1-like 1	0.686321669	6.72E-07	9.86E-06
ENSMUSG00000086313	Gm15940	predicted gene 15940	-2.751281944	6.82E-07	1.00E-05
ENSMUSG00000043259	Fam13c	family with sequence similarity 13, member C	-0.753974325	6.86E-07	1.01E-05
ENSMUSG00000031960	Aars	alanyl-tRNA synthetase	0.72060224	6.86E-07	1.01E-05
ENSMUSG00000037206	Islr	immunoglobulin superfamily containing leucine-rich repeat	-1.407624969	6.93E-07	1.02E-05
ENSMUSG00000032076	Cadm1	cell adhesion molecule 1	-0.92315277	6.95E-07	1.02E-05
ENSMUSG00000072966	Gprasp2	G protein-coupled receptor associated sorting protein 2	-2.113260007	7.00E-07	1.02E-05
ENSMUSG00000033161	Atp1a1	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	0.685377402	7.05E-07	1.03E-05
ENSMUSG00000087543	Gm16576	predicted gene 16576	-1.24678647	7.12E-07	1.04E-05
ENSMUSG000000099411	Z310015D24Rik	RIKEN cDNA 2310015D24 gene	-3.24143575	7.17E-07	1.05E-05
ENSMUSG00000028597	Gpx7	glutathione peroxidase 7	0.820558204	7.19E-07	1.05E-05
ENSMUSG00000052407	Ccdc171	coiled-coil domain containing 171	-1.428899576	7.19E-07	1.05E-05
ENSMUSG00000037548	H2-DMb2	histocompatibility 2, class II, locus Mb2	-1.539471833	7.19E-07	1.05E-05
ENSMUSG00000022620	Arsa	arylsulfatase A	0.706573043	7.20E-07	1.05E-05
ENSMUSG00000002012	Pnck	pregnancy upregulated non-ubiquitously expressed CaM kinase	-1.976533704	7.29E-07	1.06E-05
ENSMUSG00000079588	Tmem182	transmembrane protein 182	1.000760315	7.29E-07	1.06E-05
ENSMUSG00000021922	Itih4	inter alpha-trypsin inhibitor, heavy chain 4	-1.200461062	7.33E-07	1.07E-05
ENSMUSG00000029158	Yipf7	Yip1 domain family, member 7	-2.582674436	7.33E-07	1.07E-05
ENSMUSG00000060090	Rp2h	retinitis pigmentosa 2 homolog (human)	0.761976608	7.37E-07	1.07E-05
ENSMUSG00000023000	Dhh	desert hedgehog	-1.000366691	7.37E-07	1.07E-05
ENSMUSG00000068735	Trp53i11	transformation related protein 53 inducible protein 11	1.60135337	7.40E-07	1.08E-05
ENSMUSG00000024535	Srx24	sorting nexin 24	1.008131085	7.43E-07	1.08E-05
ENSMUSG00000003348	Mob3a	MOB kinase activator 3A	0.795078132	7.44E-07	1.08E-05
ENSMUSG00000021868	Ppif	peptidylprolyl isomerase F (cyclophilin F)	-0.872743789	7.44E-07	1.08E-05
ENSMUSG00000018378	Cuedc1	CUE domain containing 1	-0.830409491	7.64E-07	1.11E-05
ENSMUSG00000039578	Ccser1	coiled-coil serine rich 1	0.884723911	7.65E-07	1.11E-05
ENSMUSG00000020361	Hspa4	heat shock protein 4	0.709015184	7.65E-07	1.11E-05
ENSMUSG00000027306	Nusap1	nucleolar and spindle associated protein 1	2.426305706	7.66E-07	1.11E-05
ENSMUSG00000014158	Trpv4	transient receptor potential cation channel, subfamily V, member 4	-1.849792522	7.72E-07	1.12E-05
ENSMUSG00000098488	Pla2g4b	phospholipase A2, group IVB (cytosolic)	-1.79194612	7.79E-07	1.13E-05
ENSMUSG00000041482	Piezo2	piezo-type mechanosensitive ion channel component 2	0.892093504	7.82E-07	1.13E-05
ENSMUSG00000030298	Sec13	SEC13 homolog (S. cerevisiae)	0.704839064	7.83E-07	1.13E-05
ENSMUSG00000051391	Ywhag	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide	0.724952987	7.87E-07	1.14E-05
ENSMUSG00000067336	Bmpr2	bone morphogenetic protein receptor, type II (serine/threonine kinase)	-0.71645245	7.86E-07	1.14E-05
ENSMUSG00000046056	Sbsn	suprabasin	-1.605806471	7.93E-07	1.14E-05
ENSMUSG00000057615	Ldoc1	leucine zipper, down-regulated in cancer 1	1.357874135	7.94E-07	1.15E-05
ENSMUSG00000055407	Map6	microtubule-associated protein 6	-1.221890572	7.95E-07	1.15E-05
ENSMUSG00000006920	Ezh1	enhancer of zeste homolog 1 (Drosophila)	-0.721989584	8.04E-07	1.16E-05
ENSMUSG00000022033	Pbk	PDZ binding kinase	2.739196737	8.05E-07	1.16E-05
ENSMUSG00000019828	Grm1	glutamate receptor, metabotropic 1	-2.33237908	8.07E-07	1.16E-05
ENSMUSG00000036372	Tmem258	transmembrane protein 258	0.795106496	8.09E-07	1.16E-05
ENSMUSG00000059810	Rgs3	regulator of G-protein signaling 3	-0.673035718	8.10E-07	1.16E-05
ENSMUSG00000036661	Dennd3	DENND/MADD domain containing 3	-0.840666222	8.19E-07	1.18E-05
ENSMUSG00000047139	Cd24a	CD24a antigen	-1.331733496	8.23E-07	1.18E-05
ENSMUSG00000041718	Alg13	asparagine-linked glycosylation 13	0.898631433	8.24E-07	1.18E-05
ENSMUSG00000027605	Acss2	acyl-CoA synthetase short-chain family member 2	-0.808357298	8.27E-07	1.19E-05
ENSMUSG00000032010	Usp2	ubiquitin specific peptidase 2	-1.638815319	8.29E-07	1.19E-05
ENSMUSG00000047746	Fbxo40	F-box protein 40	-1.647043723	8.29E-07	1.19E-05
ENSMUSG00000066441	Rdh11	retinol dehydrogenase 11	0.751207221	8.30E-07	1.19E-05
ENSMUSG00000034911	Ushbp1	Usher syndrome 1C binding protein 1	-0.978328229	8.31E-07	1.19E-05
ENSMUSG00000037139	Myom3	myomesin family, member 3	-2.125439431	8.38E-07	1.20E-05
ENSMUSG00000010476	Ebf3	early B cell factor 3	-0.712178918	8.46E-07	1.21E-05
ENSMUSG00000009647	Mcu	mitochondrial calcium uniporter	0.743572104	8.53E-07	1.22E-05
ENSMUSG00000018411	Mapt	microtubule-associated protein tau	-1.711461691	8.54E-07	1.22E-05

ENSMUSG00000037012	Hk1	hexokinase 1	0.790890656	8.60E-07	1.23E-05
ENSMUSG00000058624	Gda	guanine deaminase	0.679474088	8.63E-07	1.23E-05
ENSMUSG00000020593	Lpin1	lipin 1	-0.775030403	8.72E-07	1.24E-05
ENSMUSG000000087150	BC064078	cDNA sequence BC064078	-1.659027063	8.82E-07	1.26E-05
ENSMUSG00000027957	Slc35a3	solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member 3	0.718752969	8.84E-07	1.26E-05
ENSMUSG000000031078	Ctin	cortactin	0.680329403	8.95E-07	1.27E-05
ENSMUSG000000032523	Hhah1	hedghog acyltransferase-like	-1.947921089	8.98E-07	1.28E-05
ENSMUSG000000027737	Slc7a11	solute carrier family 7 (cationic amino acid transporter, y+ system), member 11	2.444113121	9.05E-07	1.29E-05
ENSMUSG000000054083	Capn12	calpain 12	-1.259767287	9.15E-07	1.30E-05
ENSMUSG000000097069	Gm16998	predicted gene, 16998	1.55007004	9.19E-07	1.31E-05
ENSMUSG000000021306	Gpr137b	G protein-coupled receptor 137B	-0.819726	9.19E-07	1.31E-05
ENSMUSG000000002228	Ppm1j	protein phosphatase 1J	0.753968753	9.21E-07	1.31E-05
ENSMUSG000000021356	Irf4	interferon regulatory factor 4	-1.251532363	9.25E-07	1.31E-05
ENSMUSG000000035365	Parpbp	PARP1 binding protein	2.828212178	9.30E-07	1.32E-05
ENSMUSG000000033590	Myo5c	myosin VC	-2.762498014	9.43E-07	1.34E-05
ENSMUSG000000002688	Prkd1	protein kinase D1	-0.849394096	9.53E-07	1.35E-05
ENSMUSG000000050910	Cdr2l	cerebellar degeneration-related protein 2-like	0.736222011	9.54E-07	1.35E-05
ENSMUSG000000039911	Spsb1	splA/ryanodine receptor domain and SOCS box containing 1	1.134614722	9.61E-07	1.36E-05
ENSMUSG000000003814	Calr	calreticulin	0.714548878	9.64E-07	1.36E-05
ENSMUSG000000031068	Girx3	glutaredoxin 3	0.821068657	9.70E-07	1.37E-05
ENSMUSG00000102440	PCDHGA9	protocadherin gamma subfamily A, 9 precursor	-0.96301356	9.71E-07	1.37E-05
ENSMUSG000000035258	Abi3bp	ABI gene family, member 3 (NESH) binding protein	-1.150647192	9.83E-07	1.39E-05
ENSMUSG000000036718	Mical2	MICAL-like 2	0.76825337	9.84E-07	1.39E-05
ENSMUSG000000028673	Fuca1	fucosidase, alpha-L-1, tissue	0.877375964	9.93E-07	1.40E-05
ENSMUSG000000016257	Slmc2	slowmo homolog 2 (Drosophila)	0.760951951	9.94E-07	1.40E-05
ENSMUSG000000055923	Aasdh	aminoadipate-semialdehyde dehydrogenase	-0.852358952	9.94E-07	1.40E-05
ENSMUSG000000032115	Hyo1	hypoxia up-regulated 1	0.720064785	9.96E-07	1.40E-05
ENSMUSG000000051067	Lingo3	leucine rich repeat and Ig domain containing 3	-4.080943927	9.99E-07	1.41E-05
ENSMUSG000000006740	Kif5b	kinesin family member 5B	0.698458902	1.00E-06	1.41E-05
ENSMUSG000000027132	Katnbl1	katanin p80 subunit B like 1	0.796437324	1.01E-06	1.42E-05
ENSMUSG000000021493	Pdlim7	PDZ and LIM domain 7	0.998621357	1.02E-06	1.43E-05
ENSMUSG000000028596	Abl2	v-abl Abelson murine leukemia viral oncogene 2 (arg, Abelson-related gene)	0.979287038	1.04E-06	1.46E-05
ENSMUSG000000020708	Psmc5	protease (prosome, macropain) 26S subunit, ATPase 5	0.742031382	1.05E-06	1.48E-05
ENSMUSG000000042444	Fam63b	family with sequence similarity 63, member B	0.68854989	1.06E-06	1.48E-05
ENSMUSG000000057054	Inca1	inhibitor of CDK, cyclin A1 interacting protein 1	-2.23217286	1.06E-06	1.48E-05
ENSMUSG0000000066178	6030445D17Rik	RIKEN cDNA 6030445D17 gene	-1.375490971	1.06E-06	1.48E-05
ENSMUSG000000054944	5330416C01Rik	RIKEN cDNA 5330416C01 gene	3.548428926	1.07E-06	1.50E-05
ENSMUSG000000056973	Ces1d	carboxylesterase 1D	-3.332660487	1.07E-06	1.50E-05
ENSMUSG000000027002	Nckap1	NCK-associated protein 1	0.697411284	1.07E-06	1.50E-05
ENSMUSG000000062609	Kcnj15	potassium inwardly-rectifying channel, subfamily J, member 15	0.896414189	1.07E-06	1.50E-05
ENSMUSG000000060559	Gm10083	predicted gene 10083	-1.780322218	1.07E-06	1.50E-05
ENSMUSG000000086607	4930511M06Rik	RIKEN cDNA 4930511M06 gene	-4.298389651	1.07E-06	1.50E-05
ENSMUSG000000038319	Kcnh2	potassium voltage-gated channel, subfamily H (eag-related), member 2	-2.245090543	1.08E-06	1.51E-05
ENSMUSG000000015880	Ncapg	non-SMC condensin I complex, subunit G	2.713648082	1.08E-06	1.51E-05
ENSMUSG000000017817	Jph2	junctophilin 2	-1.268973452	1.08E-06	1.51E-05
ENSMUSG000000070639	Lrrc8b	leucine rich repeat containing 8 family, member B	0.726177947	1.08E-06	1.51E-05
ENSMUSG000000039835	Nhs1	NHS-like 1	0.743648778	1.09E-06	1.52E-05
ENSMUSG000000028995	Fam126a	family with sequence similarity 126, member A	0.730717687	1.09E-06	1.52E-05
ENSMUSG000000051243	Islr2	immunoglobulin superfamily containing leucine-rich repeat 2	-2.145665113	1.09E-06	1.52E-05
ENSMUSG000000026473	Glul	glutamate-ammonia ligase (glutamine synthetase)	-0.705983899	1.10E-06	1.53E-05
ENSMUSG000000022840	Adcy5	adenylate cyclase 5	-1.393835435	1.10E-06	1.54E-05
ENSMUSG000000074003	Gucy2d	guanylate cyclase 2d	-3.435794341	1.12E-06	1.56E-05
ENSMUSG000000040136	Abcc8	ATP-binding cassette, sub-family C (CFTR/MRP), member 8	-2.516163251	1.16E-06	1.61E-05
ENSMUSG000000073609	D2hgdh	D-2-hydroxyglutarate dehydrogenase	-0.859065724	1.17E-06	1.62E-05
ENSMUSG000000031309	Rps6ka3	ribosomal protein S6 kinase polypeptide 3	0.707981901	1.19E-06	1.65E-05
ENSMUSG000000042115	Klhdc8a	kelch domain containing 8A	-1.868894137	1.19E-06	1.65E-05
ENSMUSG000000020067	Mypn	myopalladin	-2.098569025	1.19E-06	1.65E-05
ENSMUSG000000064105	Cnrm2	cyclin M2	-0.837301119	1.20E-06	1.66E-05
ENSMUSG000000039842	Mcph1	microcephaly, primary autosomal recessive 1	0.859665241	1.20E-06	1.67E-05
ENSMUSG000000028834	Trim63	tripartite motif-containing 63	-2.236185096	1.22E-06	1.69E-05
ENSMUSG000000058740	Kcnt1	potassium channel, subfamily T, member 1	-2.465662562	1.22E-06	1.69E-05
ENSMUSG000000046032	Snx12	sorting nexin 12	0.773278797	1.23E-06	1.70E-05
ENSMUSG000000044903	Psg22	pregnancy-specific glycoprotein 22	4.202818689	1.23E-06	1.70E-05
ENSMUSG000000063919	Srrm4	serine/arginine repetitive matrix 4	-3.147534082	1.26E-06	1.74E-05
ENSMUSG000000028691	Prdx1	peroxiredoxin 1	0.717831111	1.26E-06	1.75E-05
ENSMUSG000000021238	Aldh6a1	aldehyde dehydrogenase family 6, subfamily A1	-0.735702719	1.27E-06	1.76E-05
ENSMUSG000000037295	Ldlrap1	low density lipoprotein receptor adaptor protein 1	0.704951966	1.27E-06	1.76E-05
ENSMUSG000000024513	Mbd2	methyl-CpG binding domain protein 2	0.683893638	1.29E-06	1.78E-05
ENSMUSG000000038733	Wdr26	WD repeat domain 26	0.653785192	1.29E-06	1.78E-05
ENSMUSG000000048814	Lonrf2	LON peptidase N-terminal domain and ring finger 2	-2.094815018	1.29E-06	1.78E-05
ENSMUSG000000033306	Lpp	LIM domain containing preferred translocation partner in lipoma	0.688732834	1.29E-06	1.78E-05
ENSMUSG000000021771	Vdac2	voltage-dependent anion channel 2	0.693678853	1.30E-06	1.79E-05
ENSMUSG000000004043	Stat5a	signal transducer and activator of transcription 5A	-0.936986156	1.31E-06	1.80E-05

ENSMUSG00000039883	Lrrc17	leucine rich repeat containing 17	-1.333339849	1.31E-06	1.80E-05
ENSMUSG00000020486	4-Sep	septin 4	0.694787135	1.32E-06	1.81E-05
ENSMUSG00000026484	Rnf2	ring finger protein 2	0.815688732	1.36E-06	1.87E-05
ENSMUSG00000028396	2310002L09Rik	RIKEN cDNA 2310002L09 gene	-1.735281927	1.37E-06	1.88E-05
ENSMUSG00000051043	Gprc5c	G protein-coupled receptor, family C, group 5, member C	-0.787673102	1.37E-06	1.89E-05
ENSMUSG00000024107	Lhcgf	lutinizing hormone/choriogonadotropin receptor	-2.145237588	1.38E-06	1.89E-05
ENSMUSG00000063428	Ddo	D-aspartate oxidase	-1.909574198	1.39E-06	1.90E-05
ENSMUSG00000038763	Alpk3	alpha-kinase 3	-2.503995725	1.39E-06	1.91E-05
ENSMUSG00000030602	Pak4	p21 protein (Cdc42/Rac)-activated kinase 4	0.770196257	1.41E-06	1.94E-05
ENSMUSG00000034993	Vat1	vesicle amine transport protein 1 homolog (T. californica)	0.854319552	1.44E-06	1.97E-05
ENSMUSG00000009293	Ube2g2	ubiquitin-conjugating enzyme E2G 2	0.723497739	1.44E-06	1.98E-05
ENSMUSG000000097243	Gm26908	predicted gene, 26908	-2.350161858	1.44E-06	1.98E-05
ENSMUSG00000028798	Eif3i	eukaryotic translation initiation factor 3, subunit I	0.706278647	1.45E-06	1.99E-05
ENSMUSG00000037625	Cldn11	claudin 11	-2.070877338	1.47E-06	2.01E-05
ENSMUSG00000054400	Ckif	chemokine-like factor	1.182281986	1.48E-06	2.02E-05
ENSMUSG00000028961	Pgd	phosphogluconate dehydrogenase	0.746188126	1.48E-06	2.03E-05
ENSMUSG00000026683	Nuf2	NUF2, NDC80 kinetochore complex component, homolog (S. cerevisiae)	2.743061865	1.48E-06	2.03E-05
ENSMUSG00000032254	Kif23	kinesin family member 23	2.083506344	1.49E-06	2.03E-05
ENSMUSG00000038457	Tmem255b	transmembrane protein 255B	-1.190112206	1.50E-06	2.05E-05
ENSMUSG00000075324	Figf	figetin	-1.840023443	1.51E-06	2.06E-05
ENSMUSG00000028634	Hivp3	human immunodeficiency virus type I enhancer binding protein 3	-0.853028182	1.52E-06	2.07E-05
ENSMUSG00000014349	Ube2z	ubiquitin-conjugating enzyme E2Z (putative)	0.689440126	1.53E-06	2.09E-05
ENSMUSG00000038213	Tapbp1	TAP binding protein-like	-0.718172299	1.53E-06	2.09E-05
ENSMUSG00000039850	Endov	endonuclease V	-0.82014442	1.53E-06	2.09E-05
ENSMUSG00000038521	C1s1	complement component 1, s subcomponent 1	-0.736096936	1.54E-06	2.10E-05
ENSMUSG00000026199	Ankzf1	ankyrin repeat and zinc finger domain containing 1	-0.761943396	1.54E-06	2.10E-05
ENSMUSG00000016833	Mrps18c	mitochondrial ribosomal protein S18C	0.823534531	1.55E-06	2.11E-05
ENSMUSG00000083890	Gm15703	predicted gene 15703	5.520068029	1.56E-06	2.12E-05
ENSMUSG00000039232	Stx11	syntaxin 11	0.851474241	1.57E-06	2.13E-05
ENSMUSG00000024867	Pip5k1b	phosphatidylinositol-4-phosphate 5-kinase, type 1 beta	-1.009458107	1.58E-06	2.15E-05
ENSMUSG00000027479	Mapre1	microtubule-associated protein, RP/EB family, member 1	0.686670628	1.59E-06	2.16E-05
ENSMUSG00000019494	Cops6	COP9 (constitutive photomorphogenic) homolog, subunit 6 (Arabidopsis thaliana)	0.773485359	1.60E-06	2.17E-05
ENSMUSG00000005410	Mcm5	minichromosome maintenance deficient 5, cell division cycle 46 (S. cerevisiae)	1.454027217	1.60E-06	2.17E-05
ENSMUSG00000007080	Pole	polymerase (DNA directed), epsilon	2.186871739	1.60E-06	2.17E-05
ENSMUSG00000036770	4933433C11Rik	RIKEN cDNA 4933433C11 gene	-1.442077687	1.61E-06	2.18E-05
ENSMUSG00000026000	Lanc1	LanC (bacterial lantibiotic synthetase component C)-like 1	-0.792519862	1.63E-06	2.20E-05
ENSMUSG00000036306	Lzts1	leucine zipper, putative tumor suppressor 1	0.737931688	1.63E-06	2.20E-05
ENSMUSG00000102918	PCDHGB6	protocadherin gamma subfamily C, 3 precursor	0.679234448	1.63E-06	2.21E-05
ENSMUSG00000024844	Ban1	barrier to autointegration factor 1	0.753622135	1.64E-06	2.21E-05
ENSMUSG00000018800	Abca5	ATP-binding cassette, sub-family A (ABC1), member 5	1.724940456	1.64E-06	2.21E-05
ENSMUSG00000047842	Diras2	DIRAS family, GTP-binding RAS-like 2	-1.835451483	1.64E-06	2.22E-05
ENSMUSG00000026229	Psm1	proteasome (prosome, macropain) 26S subunit, non-ATPase, 1	0.697493444	1.65E-06	2.22E-05
ENSMUSG00000022126	Irg1	immunoresponsive gene 1	1.176165896	1.65E-06	2.22E-05
ENSMUSG00000039396	Neil3	nei like 3 (E. coli)	2.642418055	1.65E-06	2.23E-05
ENSMUSG00000024597	Slc12a2	solute carrier family 12, member 2	0.68392024	1.66E-06	2.24E-05
ENSMUSG00000094483	Purb	purine rich element binding protein B	0.662220688	1.67E-06	2.25E-05
ENSMUSG000000050410	Tcf19	transcription factor 19	1.573587793	1.68E-06	2.26E-05
ENSMUSG00000027615	Hps3	Hermansky-Pudlak syndrome 3 homolog (human)	0.699029853	1.69E-06	2.27E-05
ENSMUSG00000056749	Nfil3	nuclear factor, interleukin 3, regulated	2.133736912	1.69E-06	2.28E-05
ENSMUSG00000092486	2610524H06Rik	RIKEN cDNA 2610524H06 gene	1.360096008	1.70E-06	2.28E-05
ENSMUSG00000037685	Atp8a1	ATPase, aminophospholipid transporter (APLT), class I, type 8A, member 1	-0.669775179	1.70E-06	2.28E-05
ENSMUSG00000034317	Trim59	tripartite motif-containing 59	1.945048931	1.71E-06	2.29E-05
ENSMUSG00000064043	Tref1	transcriptional regulating factor 1	-1.070045542	1.71E-06	2.30E-05
ENSMUSG00000049422	Chchd10	coiled-coil-helix-coiled-coil-helix domain containing 10	-1.312157963	1.73E-06	2.32E-05
ENSMUSG00000021697	Depdc1b	DEP domain containing 1B	2.208282028	1.73E-06	2.32E-05
ENSMUSG00000021913	Ogdh1	oxoglutarate dehydrogenase-like	-2.108880568	1.74E-06	2.33E-05
ENSMUSG00000040488	Ltbp4	latent transforming growth factor beta binding protein 4	-1.781941022	1.75E-06	2.34E-05
ENSMUSG00000049709	Nlrp10	NLR family, pyrin domain containing 10	-1.907821694	1.76E-06	2.35E-05
ENSMUSG00000022425	Enpp2	ectonucleotide pyrophosphatase/phosphodiesterase 2	1.139074924	1.78E-06	2.38E-05
ENSMUSG00000042541	Shfm1	split hand/foot malformation (ectrodactyly) type 1	0.710315793	1.79E-06	2.39E-05
ENSMUSG00000028557	Rnf11	ring finger protein 11	0.668512171	1.79E-06	2.40E-05
ENSMUSG00000027488	Snta1	syntrophin, acidic 1	-1.150889369	1.79E-06	2.40E-05
ENSMUSG00000025350	Rdh5	retinol dehydrogenase 5	-1.07708863	1.82E-06	2.43E-05
ENSMUSG00000047216	Cdh19	cadherin 19, type 2	-1.571482363	1.83E-06	2.44E-05
ENSMUSG00000090291	Lrrc10b	leucine rich repeat containing 10B	-1.370109816	1.83E-06	2.45E-05
ENSMUSG00000031066	Usp11	ubiquitin specific peptidase 11	-1.016095878	1.84E-06	2.45E-05
ENSMUSG00000032301	Psm4	proteasome (prosome, macropain) subunit, alpha type 4	0.731702408	1.84E-06	2.46E-05
ENSMUSG00000052310	Slc39a1	solute carrier family 39 (zinc transporter), member 1	0.6825319	1.84E-06	2.46E-05
ENSMUSG00000068744	Psrc1	proline/serine-rich coiled-coil 1	2.04913056	1.86E-06	2.48E-05
ENSMUSG00000075232	Amd1	S-adenosylmethionine decarboxylase 1	-0.80700697	1.86E-06	2.48E-05
ENSMUSG00000031808	Slc27a1	solute carrier family 27 (fatty acid transporter), member 1	-2.683623382	1.87E-06	2.49E-05
ENSMUSG00000055493	Epm2a	epilepsy, progressive myoclonic epilepsy, type 2 gene alpha	-0.77884669	1.88E-06	2.50E-05
ENSMUSG00000074476	Spc24	SPC24, NDC80 kinetochore complex component, homolog (S. cerevisiae)	2.188352833	1.88E-06	2.50E-05

ENSMUSG00000012422	Tmem167	transmembrane protein 167	0.726311673	1.88E-06	2.51E-05
ENSMUSG00000056476	Med12l	mediator complex subunit 12-like	-2.17101036	1.91E-06	2.54E-05
ENSMUSG00000021990	Spata13	spermatogenesis associated 13	0.66837095	1.92E-06	2.54E-05
ENSMUSG00000079138	Gm8818	predicted pseudogene 8818	1.71647265	1.92E-06	2.55E-05
ENSMUSG00000027832	Ptx3	pentraxin related gene	2.976831566	1.93E-06	2.56E-05
ENSMUSG00000024695	Zfp91	zinc finger protein 91	0.671120889	1.93E-06	2.56E-05
ENSMUSG00000028078	Dclk2	doublecortin-like kinase 2	0.751183275	1.94E-06	2.57E-05
ENSMUSG00000097922	4930448N21Rik	RIKEN cDNA 4930448N21 gene	-1.028528493	1.95E-06	2.58E-05
ENSMUSG00000033610	Pank1	pantothenate kinase 1	-0.906773474	1.95E-06	2.59E-05
ENSMUSG00000064344	mt-Tm	mitochondrially encoded tRNA methionine	-1.042393215	1.96E-06	2.60E-05
ENSMUSG00000039759	Thap3	THAP domain containing, apoptosis associated protein 3	-1.291477731	1.98E-06	2.62E-05
ENSMUSG00000028617	Lrrc42	leucine rich repeat containing 42	0.811932168	1.98E-06	2.62E-05
ENSMUSG00000031378	Abcd1	ATP-binding cassette, sub-family D (ALD), member 1	-0.769712104	1.98E-06	2.62E-05
ENSMUSG00000031843	Mphosph6	M phase phosphoprotein 6	0.902249837	2.00E-06	2.65E-05
ENSMUSG00000021832	Psmc6	proteasome (prosome, macropain) 26S subunit, ATPase, 6	0.689250524	2.00E-06	2.65E-05
ENSMUSG00000023912	Slc25a27	solute carrier family 25, member 27	-0.82425634	2.00E-06	2.65E-05
ENSMUSG00000015759	Cnih1	cornichon homolog 1 (Drosophila)	0.742891298	2.02E-06	2.66E-05
ENSMUSG00000051285	Pcmd1	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1	-0.666585077	2.02E-06	2.67E-05
ENSMUSG00000040354	Mars	methionine-tRNA synthetase	0.74621628	2.03E-06	2.68E-05
ENSMUSG00000025795	Rassf3	Ras association (RalGDS/AF-6) domain family member 3	-0.648404107	2.03E-06	2.68E-05
ENSMUSG00000018168	Ikzf3	IKAROS family zinc finger 3	-1.455555148	2.03E-06	2.68E-05
ENSMUSG00000024590	Lmnb1	lamin B1	1.879244416	2.04E-06	2.68E-05
ENSMUSG00000020160	Meis1	Meis homeobox 1	-0.736143713	2.04E-06	2.69E-05
ENSMUSG00000022215	Fitm1	fat storage-inducing transmembrane protein 1	-1.89048444	2.05E-06	2.69E-05
ENSMUSG00000024480	Ap3e1	adaptor-related protein complex 3, sigma 1 subunit	0.925232407	2.05E-06	2.70E-05
ENSMUSG00000043122	A530016L24Rik	RIKEN cDNA A530016L24 gene	-1.212205062	2.05E-06	2.70E-05
ENSMUSG00000062373	Tmem65	transmembrane protein 65	0.664588856	2.05E-06	2.70E-05
ENSMUSG00000075289	Carns1	carnosine synthase 1	-2.062836786	2.08E-06	2.74E-05
ENSMUSG00000008036	Ap2s1	adaptor-related protein complex 2, sigma 1 subunit	0.721296432	2.11E-06	2.77E-05
ENSMUSG00000070643	Sox13	SRY (sex determining region Y)-box 13	-0.890659646	2.11E-06	2.77E-05
ENSMUSG00000032058	Ppp2r1b	protein phosphatase 2, regulatory subunit A, beta	0.754524999	2.14E-06	2.80E-05
ENSMUSG00000069662	Marcks	myristoylated alanine rich protein kinase C substrate	0.707740219	2.15E-06	2.82E-05
ENSMUSG00000024387	Csnk2b	casein kinase 2, beta polypeptide	0.674081006	2.16E-06	2.83E-05
ENSMUSG00000024811	Tnks2	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2	0.667509599	2.16E-06	2.83E-05
ENSMUSG00000016458	Wt1	Wilms tumor 1 homolog	0.953267261	2.17E-06	2.83E-05
ENSMUSG00000030158	Clec12b	C-type lectin domain family 12, member B	-1.189981559	2.17E-06	2.84E-05
ENSMUSG00000040740	Slc25a34	solute carrier family 25, member 34	-1.941460353	2.18E-06	2.85E-05
ENSMUSG00000056656	Apol8	apolipoprotein L 8	1.752469205	2.20E-06	2.87E-05
ENSMUSG00000102590	Mannr	Mecom adjacent non-protein coding RNA	-1.577993688	2.20E-06	2.87E-05
ENSMUSG00000025931	Paqr8	progesterin and adipoQ receptor family member VIII	-0.708783432	2.20E-06	2.88E-05
ENSMUSG00000045180	Shroom2	shroom family member 2	2.552103948	2.21E-06	2.88E-05
ENSMUSG00000025571	Tnrc6c	trinucleotide repeat containing 6C	-0.715317005	2.22E-06	2.90E-05
ENSMUSG00000017767	Spata25	spermatogenesis associated 25	-2.300448308	2.23E-06	2.90E-05
ENSMUSG00000040086	Tnni3k	TNNI3 interacting kinase	-2.593347422	2.23E-06	2.90E-05
ENSMUSG00000027349	Fam98b	family with sequence similarity 98, member B	0.843111805	2.25E-06	2.93E-05
ENSMUSG00000020564	Atxn7l1	ataxin 7-like 1	-0.751122579	2.29E-06	2.98E-05
ENSMUSG00000057396	Zfp759	zinc finger protein 759	-0.84916589	2.30E-06	2.99E-05
ENSMUSG00000044072	Eml6	echinoderm microtubule associated protein like 6	-0.753401001	2.32E-06	3.02E-05
ENSMUSG00000062393	Dgkk	diacylglycerol kinase kappa	3.755628044	2.33E-06	3.02E-05
ENSMUSG00000038975	Rabggtb	Rab geranylgeranyl transferase, b subunit	0.729054307	2.33E-06	3.02E-05
ENSMUSG00000032717	Mdfi	MyoD family inhibitor	2.237738865	2.35E-06	3.05E-05
ENSMUSG00000024109	Nrxn1	neurexin I	-1.165260158	2.36E-06	3.06E-05
ENSMUSG000000081272	Gm13509	predicted gene 13509	1.038326519	2.37E-06	3.08E-05
ENSMUSG00000033186	Mzt1	mitotic spindle organizing protein 1	0.73556346	2.39E-06	3.10E-05
ENSMUSG00000101609	Kcnq1ot1	KCNQ1 overlapping transcript 1	-0.880831014	2.39E-06	3.10E-05
ENSMUSG00000046415	B430212C06Rik	RIKEN cDNA B430212C06 gene	-3.203110154	2.42E-06	3.14E-05
ENSMUSG00000030654	Arhlp1	ADP-ribosylation factor-like 6 interacting protein 1	0.722709525	2.43E-06	3.15E-05
ENSMUSG00000042354	Gnl3	guanine nucleotide binding protein-like 3 (nucleolar)	0.731828736	2.44E-06	3.16E-05
ENSMUSG00000037242	Clic4	chloride intracellular channel 4 (mitochondrial)	0.643137891	2.44E-06	3.16E-05
ENSMUSG00000044952	Kctd21	potassium channel tetramerisation domain containing 21	-0.830039486	2.45E-06	3.17E-05
ENSMUSG00000022346	Myc	myelocytomatosis oncogene	2.309580537	2.46E-06	3.18E-05
ENSMUSG00000054428	Atpif1	ATPase inhibitory factor 1	0.728965745	2.46E-06	3.18E-05
ENSMUSG00000048922	Cdca2	cell division cycle associated 2	2.355949441	2.47E-06	3.20E-05
ENSMUSG00000085591	Gm13479	predicted gene 13479	-3.273667266	2.48E-06	3.20E-05
ENSMUSG00000067365	Tmem128	transmembrane protein 128	0.693430007	2.48E-06	3.20E-05
ENSMUSG00000024140	Epas1	endothelial PAS domain protein 1	-0.840598768	2.50E-06	3.22E-05
ENSMUSG00000054958	Nt5c1a	5'-nucleotidase, cytosolic 1A	-2.522427316	2.50E-06	3.22E-05
ENSMUSG00000074733	5830428H23Rik	RIKEN cDNA 5830428H23 gene	-0.829766837	2.51E-06	3.24E-05
ENSMUSG00000016534	Lamp2	lysosomal-associated membrane protein 2	0.657547071	2.52E-06	3.25E-05
ENSMUSG00000042333	Tnfrsf14	tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator)	-0.839575167	2.53E-06	3.26E-05
ENSMUSG00000026155	Smap1	small ArfGAP 1	0.690716237	2.54E-06	3.27E-05
ENSMUSG00000069301	Hist1h2ag	histone cluster 1, H2ag	2.617150547	2.55E-06	3.29E-05
ENSMUSG00000060586	H2-Eb1	histocompatibility 2, class II antigen E beta	-1.48659708	2.57E-06	3.30E-05

ENSMUSG00000027248	Pdia3	protein disulfide isomerase associated 3	0.699607064	2.58E-06	3.31E-05
ENSMUSG00000049723	Mmp12	matrix metalloproteinase 12	2.167847982	2.58E-06	3.32E-05
ENSMUSG00000098557	Kctd12	potassium channel tetramerisation domain containing 12	-0.796841165	2.60E-06	3.34E-05
ENSMUSG00000040204	2810417H13Rik	RIKEN cDNA 2810417H13 gene	3.055601293	2.62E-06	3.36E-05
ENSMUSG00000021495	Fam193b	family with sequence similarity 193, member B	-0.834813636	2.62E-06	3.37E-05
ENSMUSG00000023927	Satb1	special AT-rich sequence binding protein 1	-0.94721867	2.63E-06	3.37E-05
ENSMUSG00000034634	Ly6d	lymphocyte antigen 6 complex, locus D	-2.266825301	2.64E-06	3.38E-05
ENSMUSG00000053646	Plxn1	plexin B1	-1.272867457	2.70E-06	3.46E-05
ENSMUSG00000079339	Gm14446	predicted gene 14446	1.822654068	2.71E-06	3.47E-05
ENSMUSG00000037361	Sf3b6	splicing factor 3B, subunit 6	0.72863275	2.72E-06	3.48E-05
ENSMUSG00000090086	A1480526	expressed sequence A1480526	-1.409797966	2.73E-06	3.49E-05
ENSMUSG00000028542	Slc6a9	solute carrier family 6 (neurotransmitter transporter, glycine), member 9	-1.288747748	2.79E-06	3.57E-05
ENSMUSG00000097357	Gm16793	predicted gene, 16793	-2.405129553	2.79E-06	3.57E-05
ENSMUSG00000045875	Adra1a	adrenergic receptor, alpha 1a	-2.943135156	2.80E-06	3.58E-05
ENSMUSG00000086353	Gm13481	predicted gene 13481	-3.249238643	2.81E-06	3.58E-05
ENSMUSG00000042268	Slc26a9	solute carrier family 26, member 9	Inf	2.82E-06	3.60E-05
ENSMUSG00000090698	Apol1	apolipoprotein L domain containing 1	1.628546863	2.82E-06	3.60E-05
ENSMUSG00000020634	Ubx2a	UBX domain protein 2A	0.715757217	2.82E-06	3.60E-05
ENSMUSG00000076609	Igkc	immunoglobulin kappa constant	-1.489873318	2.83E-06	3.60E-05
ENSMUSG00000035818	Plekhs1	pleckstrin homology domain containing, family S member 1	-1.654161876	2.86E-06	3.64E-05
ENSMUSG00000042474	Faim3	Fas apoptotic inhibitory molecule 3	-1.394409824	2.89E-06	3.67E-05
ENSMUSG00000034595	Ppp1r18	protein phosphatase 1, regulatory subunit 18	0.727585163	2.89E-06	3.68E-05
ENSMUSG00000047766	Lrrc49	leucine rich repeat containing 49	0.736835619	2.89E-06	3.68E-05
ENSMUSG00000025001	Hells	helicase, lymphoid specific	2.364859226	2.90E-06	3.69E-05
ENSMUSG00000053541	Gm4759	predicted gene 4759	-1.386455293	2.91E-06	3.71E-05
ENSMUSG00000037363	Letm2	leucine zipper-EF-hand containing transmembrane protein 2	-0.993275499	2.92E-06	3.72E-05
ENSMUSG00000073096	Lrrc61	leucine rich repeat containing 61	-1.127996806	2.93E-06	3.72E-05
ENSMUSG00000029363	Rfc5	replication factor C (activator 1) 5	1.079912872	2.93E-06	3.73E-05
ENSMUSG00000042208	0610010F05Rik	RIKEN cDNA 0610010F05 gene	0.711366546	2.97E-06	3.77E-05
ENSMUSG00000001891	Ugp2	UDP-glucose pyrophosphorylase 2	0.666467713	2.97E-06	3.77E-05
ENSMUSG00000058488	Kl	klotho	-2.468716122	2.99E-06	3.80E-05
ENSMUSG00000002881	Nab1	Ngfi-A binding protein 1	0.660913891	3.01E-06	3.81E-05
ENSMUSG00000040820	Hlcs	holocarboxylase synthetase (biotin- [propionyl-Coenzyme A-carboxylase (ATP-hydrolysing)] ligase)	-0.826702162	3.02E-06	3.83E-05
ENSMUSG00000020149	Rab1	RAB1, member RAS oncogene family	0.673058536	3.03E-06	3.83E-05
ENSMUSG00000002831	Plin4	perilipin 4	-1.815279498	3.04E-06	3.85E-05
ENSMUSG00000025911	Adhfe1	alcohol dehydrogenase, iron containing, 1	-1.84424158	3.05E-06	3.86E-05
ENSMUSG00000031910	Has3	hyaluronan synthase 3	-1.167012946	3.07E-06	3.88E-05
ENSMUSG00000085779	Atcayos	ataxia, cerebellar, Cayman type homolog (human), opposite strand	-2.998351439	3.08E-06	3.89E-05
ENSMUSG00000028669	Mcm10	minichromosome maintenance deficient 10 (S. cerevisiae)	2.241003858	3.10E-06	3.91E-05
ENSMUSG00000034591	Slc41a2	solute carrier family 41, member 2	1.110273502	3.10E-06	3.91E-05
ENSMUSG00000049313	Sor11	sortilin-related receptor, LDLR class A repeats-containing	-0.967473088	3.11E-06	3.92E-05
ENSMUSG00000022686	B3gnt5	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	0.840101823	3.11E-06	3.93E-05
ENSMUSG00000020546	Stxbp4	syntaxin binding protein 4	-0.661706259	3.15E-06	3.97E-05
ENSMUSG00000039530	Tusc3	tumor suppressor candidate 3	0.702888222	3.16E-06	3.98E-05
ENSMUSG00000085399	Foxd2os	forkhead box D2, opposite strand	0.988046226	3.16E-06	3.98E-05
ENSMUSG00000019467	Arhgef25	Rho guanine nucleotide exchange factor (GEF) 25	-0.734497589	3.17E-06	4.00E-05
ENSMUSG00000055862	Izumo4	IZUMO family member 4	-1.290352989	3.18E-06	4.00E-05
ENSMUSG00000025007	Aldh18a1	aldehyde dehydrogenase 18 family, member A1	0.782376888	3.19E-06	4.01E-05
ENSMUSG00000023942	Slc29a1	solute carrier family 29 (nucleoside transporters), member 1	0.667988517	3.19E-06	4.02E-05
ENSMUSG00000038860	Garnl3	GTPase activating RANGAP domain-like 3	0.793375248	3.23E-06	4.06E-05
ENSMUSG00000051037	Zfp455	zinc finger protein 455	-0.945261696	3.25E-06	4.08E-05
ENSMUSG00000038526	Car14	carbonic anhydrase 14	-2.045663341	3.25E-06	4.08E-05
ENSMUSG00000025534	Gusb	glucuronidase, beta	0.696690286	3.25E-06	4.08E-05
ENSMUSG00000030423	Pop4	processing of precursor 4, ribonuclease P/MRP family, (S. cerevisiae)	0.743456927	3.26E-06	4.09E-05
ENSMUSG00000032397	Tipin	timeless interacting protein	0.760597592	3.27E-06	4.10E-05
ENSMUSG00000022035	Ccdc25	coiled-coil domain containing 25	0.742993923	3.29E-06	4.12E-05
ENSMUSG00000002908	Kcnn1	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 1	-2.23610134	3.30E-06	4.13E-05
ENSMUSG00000026207	Speg	SPEG complex locus	-2.19921848	3.31E-06	4.14E-05
ENSMUSG00000030470	Csrp3	cysteine and glycine-rich protein 3	-1.381930863	3.32E-06	4.16E-05
ENSMUSG00000063275	Ptpla	protein tyrosine phosphatase-like (proline instead of catalytic arginine), member a	1.099834396	3.33E-06	4.17E-05
ENSMUSG00000029408	Abcb9	ATP-binding cassette, sub-family B (MDR/TAP), member 9	-1.257159226	3.36E-06	4.20E-05
ENSMUSG00000092557	Gm8696	predicted gene 8696	-2.271648857	3.36E-06	4.20E-05
ENSMUSG00000020649	Rrm2	ribonucleotide reductase M2	1.98361538	3.37E-06	4.22E-05
ENSMUSG00000031543	Ank1	ankyrin 1, erythroid	-1.917615296	3.38E-06	4.23E-05
ENSMUSG00000022037	Clu	clusterin	0.674697786	3.39E-06	4.24E-05
ENSMUSG00000104263	RP24-89F9.4	RP24-89F9.4	-1.674855708	3.39E-06	4.24E-05
ENSMUSG00000025487	Psm13	proteasome (prosome, macropain) 26S subunit, non-ATPase, 13	0.678807777	3.42E-06	4.27E-05
ENSMUSG00000032531	Amotl2	angiominin-like 2	-0.683159659	3.42E-06	4.27E-05
ENSMUSG00000093537	Gm7584	predicted gene 7584	-2.355482634	3.44E-06	4.29E-05
ENSMUSG00000068747	Sort1	sortilin 1	-0.72670577	3.45E-06	4.30E-05
ENSMUSG00000039275	Foxk2	forkhead box K2	0.700398938	3.54E-06	4.40E-05
ENSMUSG00000042677	Zc3h12a	zinc finger CCCH type containing 12A	-1.057370946	3.56E-06	4.44E-05
ENSMUSG00000026483	Fam129a	family with sequence similarity 129, member A	0.654280242	3.59E-06	4.46E-05

ENSMUSG0000032968	Inha	inhibin alpha	-2.658443004	3.61E-06	4.49E-05
ENSMUSG0000006716	Klk11	kallikrein related-peptidase 11	-3.101217722	3.64E-06	4.52E-05
ENSMUSG00000028633	Ctps	cytidine 5'-triphosphate synthase	0.781170709	3.65E-06	4.53E-05
ENSMUSG00000034438	Gbp8	guanylate-binding protein 8	-1.41657751	3.65E-06	4.54E-05
ENSMUSG00000069310	Hist1h3c	histone cluster 1, H3c	1.992550168	3.73E-06	4.63E-05
ENSMUSG00000026224	4933407L21Rik	RIKEN cDNA 4933407L21 gene	2.178238485	3.78E-06	4.69E-05
ENSMUSG00000073131	Vma21	VMA21 vacuolar H ⁺ -ATPase homolog (S. cerevisiae)	0.814588017	3.82E-06	4.73E-05
ENSMUSG000000029570	Lfng	LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	-1.593346921	3.84E-06	4.76E-05
ENSMUSG000000031971	Ccsap	centriole, cilia and spindle associated protein	1.803617243	3.86E-06	4.78E-05
ENSMUSG00000020015	Cdk17	cyclin-dependent kinase 17	0.664579805	3.87E-06	4.79E-05
ENSMUSG00000088789	Scama13	small Cajal body-specific RNA 1	-0.701155611	3.87E-06	4.79E-05
ENSMUSG000000051331	Cacna1c	calcium channel, voltage-dependent, L type, alpha 1C subunit	-2.027669056	3.86E-06	4.79E-05
ENSMUSG00000034773	BC030867	cDNA sequence BC030867	2.281139906	3.88E-06	4.80E-05
ENSMUSG00000050373	Snx21	sorting nexin family member 21	-0.844869101	3.88E-06	4.80E-05
ENSMUSG00000002083	Bbc3	BCL2 binding component 3	0.976596101	3.92E-06	4.84E-05
ENSMUSG00000042717	Ppp1r3a	protein phosphatase 1, regulatory (inhibitor) subunit 3A	-1.440752616	3.92E-06	4.84E-05
ENSMUSG000000054675	Tmem119	transmembrane protein 119	-1.475219521	3.92E-06	4.84E-05
ENSMUSG00000016487	Ppfbp1	PTPRF interacting protein, binding protein 1 (liprin beta 1)	0.885030695	3.93E-06	4.85E-05
ENSMUSG00000021598	Med10	mediator complex subunit 10	0.757466222	3.98E-06	4.91E-05
ENSMUSG00000097547	B230110C06Rik	RIKEN cDNA B230110C06 gene	-1.264690655	3.98E-06	4.91E-05
ENSMUSG00000032513	Gorasp1	golgi reassembly stacking protein 1	-0.839130386	3.98E-06	4.91E-05
ENSMUSG000000028889	Yrdc	yrdC domain containing (E.coli)	0.686853641	3.99E-06	4.92E-05
ENSMUSG00000035235	Trim13	tripartite motif-containing 13	0.896580471	4.02E-06	4.95E-05
ENSMUSG000000032845	Alpk2	alpha-kinase 2	-1.920796443	4.02E-06	4.95E-05
ENSMUSG00000029007	Agtr1ap	angiotensin II, type 1 receptor-associated protein	-0.724489736	4.04E-06	4.98E-05
ENSMUSG00000041673	Lrrc18	leucine rich repeat containing 18	-1.203385378	4.05E-06	4.98E-05
ENSMUSG00000038366	Lasp1	LIM and SH3 protein 1	0.660849149	4.06E-06	4.99E-05
ENSMUSG00000003123	Lipe	lipase, hormone sensitive	-1.413948492	4.06E-06	4.99E-05
ENSMUSG000000023809	Rps6ka2	ribosomal protein S6 kinase, polypeptide 2	0.644762508	4.08E-06	5.01E-05
ENSMUSG000000000001	Gnai3	guanine nucleotide binding protein (G protein), alpha inhibiting 3	0.668097914	4.11E-06	5.04E-05
ENSMUSG000000040875	Osbp10	oxysterol binding protein-like 10	0.82084677	4.13E-06	5.06E-05
ENSMUSG00000021103	Mnat1	menage a trois 1	0.706038887	4.13E-06	5.07E-05
ENSMUSG000000031349	Nsdhl	NAD(P) dependent steroid dehydrogenase-like	0.917612453	4.18E-06	5.12E-05
ENSMUSG00000026594	Ralgps2	Ral GEF with PH domain and SH3 binding motif 2	-0.913282324	4.18E-06	5.13E-05
ENSMUSG00000029910	Mad2l1	MAD2 mitotic arrest deficient-like 1	1.888716435	4.19E-06	5.13E-05
ENSMUSG000000034684	Sema3f	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F	1.11753587	4.19E-06	5.13E-05
ENSMUSG00000030512	Snrpa1	small nuclear ribonucleoprotein polypeptide A'	0.780021913	4.19E-06	5.13E-05
ENSMUSG00000066232	Ipo7	importin 7	0.699892865	4.19E-06	5.13E-05
ENSMUSG00000030539	Sema4b	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4B	-1.027479041	4.20E-06	5.14E-05
ENSMUSG00000025393	Atp5b	ATP synthase, H ⁺ transporting mitochondrial F1 complex, beta subunit	0.655252305	4.24E-06	5.18E-05
ENSMUSG00000046345	Smco1	single-pass membrane protein with coiled-coil domains 1	-2.839852143	4.24E-06	5.18E-05
ENSMUSG00000035455	Figl1	figletin-like 1	2.353038853	4.27E-06	5.21E-05
ENSMUSG000000097838	C530050E15Rik	RIKEN cDNA C530050E15 gene	-2.471879767	4.29E-06	5.23E-05
ENSMUSG00000019370	Calm3	calmodulin 3	0.666488809	4.31E-06	5.27E-05
ENSMUSG000000073705	Apo1d1	apoptosis-inducing, TAF9-like domain 1	2.009615756	4.34E-06	5.29E-05
ENSMUSG00000017929	B4gal5	UDP-Gal:beta-GlcNAc beta 1,4-galactosyltransferase, polypeptide 5	0.679233721	4.35E-06	5.30E-05
ENSMUSG000000100210	Hist1h3f	histone cluster 1, H3f	1.529039845	4.38E-06	5.33E-05
ENSMUSG00000026134	Prim2	DNA primase, p58 subunit	0.939541023	4.39E-06	5.35E-05
ENSMUSG00000027004	Frzb	frizzled-related protein	1.707910833	4.41E-06	5.37E-05
ENSMUSG000000064367	mt-Nd5	mitochondrially encoded NADH dehydrogenase 5	-0.655641239	4.42E-06	5.38E-05
ENSMUSG00000040037	Negr1	neuronal growth regulator 1	1.715322561	4.45E-06	5.42E-05
ENSMUSG00000030498	Gas2	growth arrest specific 2	-0.659955114	4.48E-06	5.45E-05
ENSMUSG00000001027	Scn4a	sodium channel, voltage-gated, type IV, alpha	-2.130008187	4.48E-06	5.45E-05
ENSMUSG00000020882	Cacnb1	calcium channel, voltage-dependent, beta 1 subunit	-1.26137833	4.49E-06	5.46E-05
ENSMUSG000000003575	Crtc1	CREB regulated transcription coactivator 1	-0.837748492	4.51E-06	5.48E-05
ENSMUSG00000025016	Tm9sf3	transmembrane 9 superfamily member 3	0.65248326	4.52E-06	5.49E-05
ENSMUSG00000029155	Spta18	spermatogenesis associated 18	3.189229512	4.58E-06	5.55E-05
ENSMUSG000000059149	Mfsd4	major facilitator superfamily domain containing 4	1.034423136	4.58E-06	5.55E-05
ENSMUSG00000015222	Map2	microtubule-associated protein 2	-0.698446162	4.58E-06	5.55E-05
ENSMUSG00000026208	Des	desmin	-0.922640834	4.58E-06	5.55E-05
ENSMUSG00000006638	Abhd1	abhydrolase domain containing 1	-1.122151278	4.58E-06	5.55E-05
ENSMUSG00000033222	Ttf2	transcription termination factor, RNA polymerase II	0.876409238	4.62E-06	5.59E-05
ENSMUSG000000031479	Vps36	vacuolar protein sorting 36 (yeast)	0.681511761	4.63E-06	5.60E-05
ENSMUSG000000000031	H19	H19, imprinted maternally expressed transcript	2.227024905	4.64E-06	5.61E-05
ENSMUSG00000001270	Ckb	creatine kinase, brain	-2.333127347	4.64E-06	5.61E-05
ENSMUSG00000030996	Art1	ADP-ribosyltransferase 1	-2.379143654	4.64E-06	5.61E-05
ENSMUSG00000030342	Cd9	CD9 antigen	0.682426944	4.65E-06	5.61E-05
ENSMUSG00000103897	PCDHGB6	protocadherin gamma subfamily A, 8 precursor	-0.842046727	4.67E-06	5.64E-05
ENSMUSG00000063458	1700112E06Rik	RIKEN cDNA 1700112E06 gene	-0.982730244	4.69E-06	5.67E-05
ENSMUSG000000040385	Ppp1ca	protein phosphatase 1, catalytic subunit, alpha isoform	0.65194684	4.70E-06	5.67E-05
ENSMUSG000000025151	Maged1	melanoma antigen, family D, 1	0.651324607	4.71E-06	5.69E-05
ENSMUSG00000026980	Ly75	lymphocyte antigen 75	0.987493874	4.76E-06	5.75E-05
ENSMUSG000000021215	Net1	neuroepithelial cell transforming gene 1	-0.662555253	4.77E-06	5.75E-05

ENSMUSG0000006442	Srm	spermidine synthase	0.864171098	4.79E-06	5.77E-05
ENSMUSG0000003976	Tbc1d16	TBC1 domain family, member 16	0.775301072	4.80E-06	5.79E-05
ENSMUSG0000000901	Mmp11	matrix metalloproteinase 11	-0.873283162	4.85E-06	5.84E-05
ENSMUSG00000101680	Gm29015	predicted gene 29015	-2.769703627	4.86E-06	5.84E-05
ENSMUSG00000030246	Ldhb	lactate dehydrogenase B	-0.765812044	4.86E-06	5.85E-05
ENSMUSG00000019916	P4ha1	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha 1 polypeptide	0.702769379	4.88E-06	5.87E-05
ENSMUSG00000024401	Tnf	tumor necrosis factor	1.290662832	4.89E-06	5.88E-05
ENSMUSG00000065701	Rny1	RNA, Y1 small cytoplasmic, Ro-associated	1.491370063	4.90E-06	5.88E-05
ENSMUSG00000029014	Dnajc2	DnaJ (Hsp40) homolog, subfamily C, member 2	0.735372116	4.91E-06	5.89E-05
ENSMUSG00000042903	Foxo4	forkhead box O4	-0.750253938	4.92E-06	5.90E-05
ENSMUSG00000082726	Gm11424	predicted gene 11424	-2.120225144	4.95E-06	5.94E-05
ENSMUSG00000026418	Tnni1	troponin I, skeletal, slow 1	3.309732889	4.96E-06	5.94E-05
ENSMUSG00000023004	Tuba1b	tubulin, alpha 1B	0.761728308	5.04E-06	6.04E-05
ENSMUSG00000086992	Gm15941	predicted gene 15941	-1.952641668	5.04E-06	6.04E-05
ENSMUSG00000090210	Itga10	integrin, alpha 10	-0.844810126	5.05E-06	6.04E-05
ENSMUSG00000074971	Fibin	fin bud initiation factor homolog (zebrafish)	-1.110354263	5.05E-06	6.05E-05
ENSMUSG00000041180	Hectd2	HECT domain containing 2	0.773937639	5.06E-06	6.06E-05
ENSMUSG00000039220	Ppp1r10	protein phosphatase 1, regulatory subunit 10	-0.688762131	5.07E-06	6.06E-05
ENSMUSG00000028788	Ptp4a2	protein tyrosine phosphatase 4a2	0.630371204	5.07E-06	6.07E-05
ENSMUSG00000022629	Kif21a	kinesin family member 21A	-1.213964632	5.12E-06	6.11E-05
ENSMUSG00000038604	Fam65a	family with sequence similarity 65, member A	-0.768783856	5.14E-06	6.14E-05
ENSMUSG00000015619	Gata3	GATA binding protein 3	-1.377089869	5.15E-06	6.15E-05
ENSMUSG00000030876	Mettl9	methyltransferase like 9	0.662131999	5.16E-06	6.15E-05
ENSMUSG00000021176	Efcab11	EF-hand calcium binding domain 11	2.630821929	5.29E-06	6.31E-05
ENSMUSG00000034401	Spata6	spermatogenesis associated 6	0.653240336	5.30E-06	6.32E-05
ENSMUSG00000025789	St8sia2	ST8 alpha-N-acetyl-neuraminidase alpha-2,8-sialyltransferase 2	-1.519727819	5.34E-06	6.36E-05
ENSMUSG00000023055	Calco1	calcium binding and coiled coil domain 1	-0.759847665	5.37E-06	6.40E-05
ENSMUSG00000024654	Asrg1	asparaginase like 1	-0.827627363	5.39E-06	6.42E-05
ENSMUSG00000039616	Mocos	molybdenum cofactor sulfurase	-0.775387608	5.45E-06	6.49E-05
ENSMUSG00000017679	Ttpal	tocopherol (alpha) transfer protein-like	0.679253414	5.51E-06	6.56E-05
ENSMUSG00000069270	Hist1h2ac	histone cluster 1, H2ac	2.150437399	5.54E-06	6.59E-05
ENSMUSG00000022451	Twf1	twinfilin, actin-binding protein, homolog 1 (Drosophila)	0.672002121	5.54E-06	6.59E-05
ENSMUSG00000074923	Pak6	p21 protein (Cdc42/Rac)-activated kinase 6	-1.737655419	5.55E-06	6.59E-05
ENSMUSG00000021714	Cenpk	centromere protein K	2.298362879	5.57E-06	6.62E-05
ENSMUSG00000030122	Ptms	parathyrosin	0.6307583	5.59E-06	6.64E-05
ENSMUSG00000003955	Fam162a	family with sequence similarity 162, member A	0.73065378	5.60E-06	6.65E-05
ENSMUSG00000037709	Fam13a	family with sequence similarity 13, member A	-1.225689116	5.64E-06	6.69E-05
ENSMUSG00000067818	Myl9	myosin, light polypeptide 9, regulatory	-1.158962014	5.64E-06	6.69E-05
ENSMUSG00000056185	Snx32	sorting nexin 32	-0.888095334	5.65E-06	6.70E-05
ENSMUSG00000032423	Syncrip	synaptotagmin binding, cytoplasmic RNA interacting protein	0.671298321	5.67E-06	6.72E-05
ENSMUSG00000039914	Coq10a	coenzyme Q10 homolog A (yeast)	-0.829039725	5.70E-06	6.75E-05
ENSMUSG00000103364	RP23-87D8.4		0.801728362	5.76E-06	6.82E-05
ENSMUSG00000041220	Elovif6	ELOVL family member 6, elongation of long chain fatty acids (yeast)	0.989527642	5.78E-06	6.84E-05
ENSMUSG00000037259	Dzank1	double zinc ribbon and ankyrin repeat domains 1	-1.465224906	5.81E-06	6.87E-05
ENSMUSG00000021929	Kpna3	karyopherin (importin) alpha 3	0.705503956	5.81E-06	6.87E-05
ENSMUSG00000016493	Cd46	CD46 antigen, complement regulatory protein	-0.859313245	5.85E-06	6.91E-05
ENSMUSG00000029516	Cit	citron	0.953729638	5.86E-06	6.92E-05
ENSMUSG00000004791	Pgf	placental growth factor	4.107471007	5.86E-06	6.92E-05
ENSMUSG00000020741	Cluh	clustered mitochondria (cluA/CLU1) homolog	-0.685769686	5.90E-06	6.96E-05
ENSMUSG00000028988	Cttnbip1	catenin beta interacting protein 1	0.615464943	5.92E-06	6.99E-05
ENSMUSG00000030647	Ndufc2	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 2	1.163295116	5.93E-06	6.99E-05
ENSMUSG00000074221	Zfp568	zinc finger protein 568	0.692449503	5.93E-06	6.99E-05
ENSMUSG00000042229	Rabif	RAB interacting factor	0.697938162	5.94E-06	7.00E-05
ENSMUSG00000044906	4930503L19Rik	RIKEN cDNA 4930503L19 gene	0.694617054	6.02E-06	7.08E-05
ENSMUSG00000089682	Bcl2l2	BCL2-like 2	0.639939951	6.02E-06	7.08E-05
ENSMUSG00000028410	Dnaj1a	DnaJ (Hsp40) homolog, subfamily A, member 1	-1.077479654	6.02E-06	7.08E-05
ENSMUSG00000097353	A430046D13Rik	Riken cDNA A430046D13 gene	-1.234931982	6.02E-06	7.08E-05
ENSMUSG00000035552	Ebf4	early B cell factor 4	-1.359368074	6.08E-06	7.15E-05
ENSMUSG00000020453	Patz1	POZ (BTB) and AT hook containing zinc finger 1	-0.79804529	6.09E-06	7.15E-05
ENSMUSG00000039782	Cpeb2	cytoplasmic polyadenylation element binding protein 2	0.677920213	6.10E-06	7.16E-05
ENSMUSG00000041360	D19Bwg1357e	DNA segment, Chr 19, Brigham & Women's Genetics 1357 expressed	0.726715935	6.11E-06	7.17E-05
ENSMUSG00000034263	Vwa9	von Willebrand factor A domain containing 9	0.719723515	6.10E-06	7.17E-05
ENSMUSG00000042793	Lgr6	leucine-rich repeat-containing G protein-coupled receptor 6	-2.060002623	6.10E-06	7.17E-05
ENSMUSG00000060671	Atp8b2	ATPase, class I, type 8B, member 2	0.648555893	6.14E-06	7.20E-05
ENSMUSG00000037944	Ccr7	chemokine (C-C motif) receptor 7	-1.119575672	6.16E-06	7.22E-05
ENSMUSG00000020102	Psmc3	proteasome (prosome, macropain) 26S subunit, ATPase 3	0.638169499	6.22E-06	7.29E-05
ENSMUSG00000063236	1110038F14Rik	RIKEN cDNA 1110038F14 gene	0.742930085	6.23E-06	7.30E-05
ENSMUSG00000029482	Aacs	acetoacetyl-CoA synthetase	0.770350442	6.25E-06	7.32E-05
ENSMUSG00000000563	Atp5f1	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit B1	0.66915907	6.26E-06	7.33E-05
ENSMUSG00000039497	Dse	dermatan sulfate epimerase	0.742389692	6.30E-06	7.37E-05
ENSMUSG00000022800	Fytd1	forty-two-three domain containing 1	0.64552794	6.33E-06	7.40E-05
ENSMUSG00000027835	Pdcd10	programmed cell death 10	0.673762714	6.34E-06	7.41E-05
ENSMUSG00000018624	Phf21b	PHD finger protein 21B	-0.766661285	6.34E-06	7.41E-05

ENSMUSG00000003131	Pafah1b2	platelet-activating factor acetylhydrolase, isoform 1b, subunit 2	0.647225121	6.37E-06	7.45E-05
ENSMUSG00000022758	P2rx6	purinergic receptor P2X, ligand-gated ion channel, 6	-3.367838226	6.40E-06	7.47E-05
ENSMUSG00000034848	Ttc21b	tetratricopeptide repeat domain 21B	-0.658737443	6.40E-06	7.48E-05
ENSMUSG00000096971	4930556M19Rik	RIKEN cDNA 4930556M19 gene	-1.080555848	6.44E-06	7.51E-05
ENSMUSG00000056076	Eif3b	eukaryotic translation initiation factor 3, subunit B	0.642130243	6.44E-06	7.51E-05
ENSMUSG00000059401	Mamld1	mastermind-like domain containing 1	0.725402798	6.48E-06	7.56E-05
ENSMUSG00000021747	4930452B06Rik	RIKEN cDNA 4930452B06 gene	1.277547688	6.50E-06	7.58E-05
ENSMUSG00000048572	Tmem252	transmembrane protein 252	3.548105939	6.52E-06	7.59E-05
ENSMUSG00000103808	RP24-227F.14.1		-0.806189036	6.51E-06	7.59E-05
ENSMUSG00000056708	Ier5	immediate early response 5	-0.687877791	6.53E-06	7.60E-05
ENSMUSG00000103472	Pcdhga7	protocadherin gamma subfamily A, 7	-0.900356967	6.53E-06	7.60E-05
ENSMUSG00000041773	Enc1	ectodermal-neural cortex 1	1.079701189	6.55E-06	7.61E-05
ENSMUSG00000030638	Sh3gl3	SH3-domain GRB2-like 3	2.883856946	6.56E-06	7.62E-05
ENSMUSG00000053641	Dennd4a	DENN/MADD domain containing 4A	0.673541362	6.58E-06	7.64E-05
ENSMUSG00000024740	Ddb1	damage specific DNA binding protein 1	0.645090909	6.60E-06	7.67E-05
ENSMUSG00000031382	Asb11	ankyrin repeat and SOCS box-containing 11	-1.630027082	6.63E-06	7.70E-05
ENSMUSG00000042190	Cmk1r1	chemokine-like receptor 1	-0.754947547	6.75E-06	7.83E-05
ENSMUSG00000079020	Slc45a4	solute carrier family 45, member 4	0.842691202	6.79E-06	7.88E-05
ENSMUSG00000027227	Sord	sorbitol dehydrogenase	-0.739110956	6.79E-06	7.88E-05
ENSMUSG00000008226	Scrn3	secernin 3	-0.788565229	6.82E-06	7.91E-05
ENSMUSG00000062077	Trim54	tripartite motif-containing 54	-2.231581998	6.82E-06	7.91E-05
ENSMUSG00000046598	Bdh1	3-hydroxybutyrate dehydrogenase, type 1	-2.235639834	6.89E-06	7.99E-05
ENSMUSG00000030144	Clec4d	C-type lectin domain family 4, member d	1.986240937	6.92E-06	8.01E-05
ENSMUSG00000078578	Ube2d3	ubiquitin-conjugating enzyme E2D 3	0.646270544	6.96E-06	8.05E-05
ENSMUSG00000040537	Adam22	a disintegrin and metallopeptidase domain 22	-0.861738177	6.99E-06	8.08E-05
ENSMUSG00000053214	Gm9899	predicted gene 9899	-3.657843308	7.01E-06	8.11E-05
ENSMUSG00000057880	Abat	4-aminobutyrate aminotransferase	-0.971051134	7.02E-06	8.12E-05
ENSMUSG00000027852	Nras	neuroblastoma ras oncogene	0.635915121	7.08E-06	8.18E-05
ENSMUSG00000073608	Gm6086	predicted gene 6086	-3.292486435	7.08E-06	8.18E-05
ENSMUSG00000000916	Nsun5	NOL1/NOP2/Sun domain family, member 5	-0.791900682	7.15E-06	8.25E-05
ENSMUSG00000051747	Ttn	titin	-2.226999763	7.15E-06	8.25E-05
ENSMUSG00000020156	Mum1	melanoma associated antigen (mutated) 1	-0.734157596	7.18E-06	8.28E-05
ENSMUSG00000011171	Vipr2	vasoactive intestinal peptide receptor 2	-2.057332874	7.21E-06	8.31E-05
ENSMUSG00000059146	Ntrk3	neurotrophic tyrosine kinase, receptor, type 3	-1.656998221	7.22E-06	8.33E-05
ENSMUSG00000022842	Ece2	endothelin converting enzyme 2	0.956018849	7.24E-06	8.34E-05
ENSMUSG00000052013	Btla	B and T lymphocyte associated	-1.092326153	7.25E-06	8.35E-05
ENSMUSG00000036810	Cnep1r1	CTD nuclear envelope phosphatase 1 regulatory subunit 1	0.681625978	7.31E-06	8.42E-05
ENSMUSG00000046182	Gsg1l	GSG1-like	-2.623727157	7.32E-06	8.42E-05
ENSMUSG00000027360	Hdc	histidine decarboxylase	0.923429102	7.37E-06	8.48E-05
ENSMUSG00000017493	Igfbp4	insulin-like growth factor binding protein 4	0.61557541	7.39E-06	8.49E-05
ENSMUSG00000034248	Slc25a37	solute carrier family 25, member 37	-0.654630391	7.44E-06	8.55E-05
ENSMUSG00000024219	Anks1	ankyrin repeat and SAM domain containing 1	-0.815473448	7.45E-06	8.56E-05
ENSMUSG00000015733	Capza2	capping protein (actin filament) muscle Z-line, alpha 2	0.643680727	7.46E-06	8.57E-05
ENSMUSG00000028702	Rad54l	RAD54 like (S. cerevisiae)	1.874322201	7.48E-06	8.58E-05
ENSMUSG00000027261	Hao1	hydroxyacid oxidase 1, liver	3.709386963	7.49E-06	8.59E-05
ENSMUSG00000037347	Chst7	carbohydrate (N-acetylglucosamino) sulfotransferase 7	0.773009896	7.50E-06	8.60E-05
ENSMUSG00000056870	Gulp1	GULP, engulfment adaptor PTB domain containing 1	-0.745615596	7.52E-06	8.62E-05
ENSMUSG00000051648	Kctd19	potassium channel tetramerisation domain containing 19	-1.94424915	7.56E-06	8.67E-05
ENSMUSG00000030499	Kctd15	potassium channel tetramerisation domain containing 15	-0.956022819	7.59E-06	8.70E-05
ENSMUSG00000029467	Atp2a2	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	-0.796255298	7.63E-06	8.74E-05
ENSMUSG00000000078	Klf6	Kruppel-like factor 6	1.465796712	7.65E-06	8.75E-05
ENSMUSG00000040502	9-Mar	membrane-associated ring finger (C3HC4) 9	-1.301664822	7.65E-06	8.75E-05
ENSMUSG00000020644	Id2	inhibitor of DNA binding 2	-0.679046556	7.72E-06	8.83E-05
ENSMUSG00000028093	Acp6	acid phosphatase 6, lysophosphatidic	-0.754814448	7.72E-06	8.83E-05
ENSMUSG00000025724	Sec11a	SEC11 homolog A (S. cerevisiae)	0.685741593	7.77E-06	8.88E-05
ENSMUSG00000028184	Lphn2	latrophilin 2	0.637625731	7.81E-06	8.93E-05
ENSMUSG00000033952	Aspm	asp (abnormal spindle)-like, microcephaly associated (Drosophila)	2.354059959	7.82E-06	8.93E-05
ENSMUSG00000055805	Fmn1l	formin-like 1	-0.736905704	7.89E-06	9.01E-05
ENSMUSG00000027332	Ivd	isovaleryl coenzyme A dehydrogenase	-0.72287878	7.90E-06	9.02E-05
ENSMUSG00000069919	Hba-a1	hemoglobin alpha, adult chain 1	-2.138156556	7.93E-06	9.04E-05
ENSMUSG00000007617	Homer1	homer homolog 1 (Drosophila)	0.689031661	7.96E-06	9.08E-05
ENSMUSG00000024962	Vegfb	vascular endothelial growth factor B	-0.981351104	7.97E-06	9.08E-05
ENSMUSG00000024045	Akap8	A kinase (PRKA) anchor protein 8	-0.632915717	8.01E-06	9.12E-05
ENSMUSG00000024936	Kcnk7	potassium channel, subfamily K, member 7	-2.571555332	8.01E-06	9.12E-05
ENSMUSG00000019039	Dalrd3	DALR anticodon binding domain containing 3	-0.752247491	8.02E-06	9.12E-05
ENSMUSG00000030994	D7Erd443e	DNA segment, Chr 7, ERATO Doi 443, expressed	-5.113401541	8.03E-06	9.13E-05
ENSMUSG00000024583	Txnl1	thioredoxin-like 1	0.667973153	8.05E-06	9.16E-05
ENSMUSG00000049687	Fam109b	family with sequence similarity 109, member B	1.532916237	8.06E-06	9.17E-05
ENSMUSG00000048371	Pdp2	pyruvate dehydrogenase phosphatase catalytic subunit 2	-0.7730355	8.12E-06	9.22E-05
ENSMUSG00000020720	Psmd12	proteasome (prosome, macropain) 26S subunit, non-ATPase, 12	0.694611784	8.14E-06	9.25E-05
ENSMUSG00000020794	Ube2g1	ubiquitin-conjugating enzyme E2G 1	0.645486012	8.17E-06	9.28E-05
ENSMUSG00000051223	Bzw1	basic leucine zipper and W2 domains 1	0.644405184	8.19E-06	9.29E-05
ENSMUSG00000027803	Wwtr1	WW domain containing transcription regulator 1	0.610982269	8.21E-06	9.31E-05

ENSMUSG00000032116	Stt3a	STT3, subunit of the oligosaccharyltransferase complex, homolog A (S. cerevisiae)	0.666374714	8.22E-06	9.32E-05
ENSMUSG00000015961	Adss	adenylosuccinate synthetase, non muscle	0.661303072	8.25E-06	9.35E-05
ENSMUSG000000063021	Hist1h2ak	histone cluster 1, H2ak	1.924933533	8.35E-06	9.46E-05
ENSMUSG00000020034	Tcp1112	t-complex 11 (mouse) like 2	-0.675599947	8.36E-06	9.47E-05
ENSMUSG00000025969	Nrp2	neuropilin 2	0.661170902	8.46E-06	9.57E-05
ENSMUSG00000032596	Uba7	ubiquitin-like modifier activating enzyme 7	-0.723557315	8.47E-06	9.59E-05
ENSMUSG00000028837	Psmb2	proteasome (prosome, macropain) subunit, beta type 2	0.655939268	8.52E-06	9.64E-05
ENSMUSG000000054766	Set	SET nuclear oncogene	0.733232528	8.57E-06	9.69E-05
ENSMUSG00000020150	Gamt	guanidinoacetate methyltransferase	-1.026326035	8.60E-06	9.72E-05
ENSMUSG000000060445	Svcp2	synaptonemal complex protein 2	-1.085657232	8.61E-06	9.73E-05
ENSMUSG00000030798	Cd37	CD37 antigen	-1.420723937	8.73E-06	9.86E-05
ENSMUSG00000042348	Arl15	ADP-ribosylation factor-like 15	-0.669497059	8.77E-06	9.90E-05
ENSMUSG00000025432	Avil	advillin	-1.114520908	8.78E-06	9.91E-05
ENSMUSG00000048076	Arf1	ADP-ribosylation factor 1	0.627147274	8.82E-06	9.95E-05
ENSMUSG00000020264	Slc36a2	solute carrier family 36 (proton/amino acid symporter), member 2	-2.342625713	8.84E-06	9.96E-05
ENSMUSG00000103749	Pcdhgb5	protocadherin gamma subfamily B, 5	-0.697842491	8.85E-06	9.98E-05
ENSMUSG000000041945	Mfsd9	major facilitator superfamily domain containing 9	0.875133445	8.96E-06	0.000100927
ENSMUSG00000027293	Ehd4	EH-domain containing 4	0.622574874	9.01E-06	0.000101433
ENSMUSG00000021733	Slc4a7	solute carrier family 4, sodium bicarbonate cotransporter, member 7	0.663096138	9.08E-06	0.000102168
ENSMUSG00000025266	Gnl3l	guanine nucleotide binding protein-like 3 (nucleolar)-like	0.657992227	9.08E-06	0.000102168
ENSMUSG00000032311	Nrg4	neuregulin 4	-1.667063424	9.09E-06	0.000102277
ENSMUSG000000088185	Scarna2	small Cajal body-specific RNA 2	-0.926717527	9.13E-06	0.00010264
ENSMUSG00000028713	Cyp4b1	cytochrome P450, family 4, subfamily b, polypeptide 1	0.731985075	9.15E-06	0.000102834
ENSMUSG00000024168	Tmem204	transmembrane protein 204	-0.919662376	9.17E-06	0.00010307
ENSMUSG00000028832	Stmn1	stathmin 1	1.306168796	9.21E-06	0.000103435
ENSMUSG000000091971	Hspa1a	heat shock protein 1A	-0.945409975	9.21E-06	0.000103435
ENSMUSG00000030007	Cct7	chaperonin containing Tcp1, subunit 7 (eta)	0.651302926	9.26E-06	0.000103886
ENSMUSG00000038156	Spon1	spondin 1, (f-spondin) extracellular matrix protein	-0.875683922	9.29E-06	0.00010424
ENSMUSG00000103885	RP23-446D4.12		-1.584655883	9.30E-06	0.000104258
ENSMUSG00000020169	Best3	bestrophin 3	-2.221096461	9.30E-06	0.000104292
ENSMUSG00000068882	Ssb	Sjogren syndrome antigen B	0.659183028	9.35E-06	0.000104788
ENSMUSG00000054453	Syt5	synaptotagmin-like 5	-2.145356271	9.37E-06	0.000104913
ENSMUSG00000027225	Duoxa2	dual oxidase maturation factor 2	-3.172499134	9.39E-06	0.000105136
ENSMUSG00000019992	Mtfr2	mitochondrial fission regulator 2	1.613166582	9.42E-06	0.000105432
ENSMUSG00000085282	Gm15663	predicted gene 15663	-0.920908318	9.49E-06	0.000106079
ENSMUSG00000091089	A930018M24Rik	RIKEN cDNA A930018M24 gene	-2.887235923	9.48E-06	0.000106079
ENSMUSG00000023905	Tnfrsf12a	tumor necrosis factor receptor superfamily, member 12a	1.180187734	9.51E-06	0.000106266
ENSMUSG00000062257	Oprcm1	opioid binding protein/cell adhesion molecule-like	-1.051014994	9.52E-06	0.000106338
ENSMUSG00000025185	Loxl4	lysyl oxidase-like 4	1.18151078	9.54E-06	0.000106523
ENSMUSG00000016319	Slc25a5	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5	0.676606366	9.63E-06	0.000107475
ENSMUSG00000031467	Agpat5	1-acylglycerol-3-phosphate O-acyltransferase 5 (lysophosphatidic acid acyltransferase, epsilon)	0.718201286	9.64E-06	0.00010751
ENSMUSG00000058355	Abce1	ATP-binding cassette, sub-family E (OABP), member 1	0.676363059	9.64E-06	0.00010751
ENSMUSG00000022270	Fam134b	family with sequence similarity 134, member B	-1.026438938	9.69E-06	0.00010805
ENSMUSG00000000628	Hk2	hexokinase 2	-1.196740367	9.70E-06	0.00010815
ENSMUSG000000050751	Pgbd5	piggyBac transposable element derived 5	2.44904442	9.71E-06	0.000108194
ENSMUSG00000046402	Rbp1	retinol binding protein 1, cellular	2.701012279	9.73E-06	0.000108405
ENSMUSG00000070394	Tmem256	transmembrane protein 256	0.71070011	9.79E-06	0.000108911
ENSMUSG00000078234	Klhdc7a	kelch domain containing 7A	-2.795298202	9.79E-06	0.000108911
ENSMUSG00000006221	Hspb7	heat shock protein family, member 7 (cardiovascular)	-1.382256756	9.82E-06	0.000109283
ENSMUSG00000028017	Egf	epidermal growth factor	-1.739494444	9.84E-06	0.000109428
ENSMUSG00000027422	Rrbp1	ribosome binding protein 1	0.61760644	9.88E-06	0.000109825
ENSMUSG00000027318	Adam33	a disintegrin and metallopeptidase domain 33	-1.655445575	9.88E-06	0.000109825
ENSMUSG00000026308	Klhl30	kelch-like 30	-1.196525075	9.91E-06	0.000110061
ENSMUSG00000039989	Cbx4	chromobox 4	-0.84403788	9.92E-06	0.000110141
ENSMUSG00000033287	Kctd17	potassium channel tetramerisation domain containing 17	0.687366229	9.95E-06	0.000110436
ENSMUSG00000005161	Prdx2	peroxiredoxin 2	0.618233689	9.97E-06	0.000110585
ENSMUSG00000031904	Slc7a6	solute carrier family 7 (cationic amino acid transporter, y+ system), member 6	0.733558611	1.00E-05	0.000110916
ENSMUSG00000029414	Kntc1	kinetochore associated 1	2.675955402	1.00E-05	0.000110961
ENSMUSG00000016308	Ube2a	ubiquitin-conjugating enzyme E2A	0.718108154	1.00E-05	0.000111088
ENSMUSG00000041779	Tram2	translocating chain-associating membrane protein 2	0.703576845	1.00E-05	0.000111099
ENSMUSG00000086513	9130208D14Rik	RIKEN cDNA 9130208D14 gene	1.3335219	1.01E-05	0.000111998
ENSMUSG00000072718	Klra10	killer cell lectin-like receptor subfamily A, member 10	-3.421281782	1.02E-05	0.000112639
ENSMUSG00000038569	Rad9b	RAD9 homolog B	-1.305382158	1.02E-05	0.00011298
ENSMUSG00000035852	Misp	mitotic spindle positioning	-1.86376541	1.03E-05	0.000113389
ENSMUSG00000052833	Sae1	SUMO1 activating enzyme subunit 1	0.716071015	1.03E-05	0.000113564
ENSMUSG00000036402	Gng12	guanine nucleotide binding protein (G protein), gamma 12	0.635956234	1.03E-05	0.000113788
ENSMUSG00000063296	Tmem117	transmembrane protein 117	-1.955806739	1.04E-05	0.000114394
ENSMUSG00000031527	Eri1	exoribonuclease 1	0.897820286	1.04E-05	0.000114898
ENSMUSG00000041438	Cirh1a	cirrhosis, autosomal recessive 1A (human)	0.69014849	1.04E-05	0.000114964
ENSMUSG00000040415	Dtx3	deltex 3 homolog (Drosophila)	-0.680654574	1.05E-05	0.000115381
ENSMUSG00000022300	Dcaf13	DDB1 and CUL4 associated factor 13	0.681022369	1.05E-05	0.000115455
ENSMUSG00000001281	Itgb7	integrin beta 7	-1.253203843	1.05E-05	0.000115455
ENSMUSG00000034449	Dhrs11	dehydrogenase/reductase (SDR family) member 11	-1.073291235	1.05E-05	0.000115471

ENSMUSG0000049321	Zfp2	zinc finger protein 2	-0.893911845	1.05E-05	0.000115653
ENSMUSG0000038059	Smim3	small integral membrane protein 3	1.05564722	1.05E-05	0.000116041
ENSMUSG0000032609	Klhd8b	kelch domain containing 8B	-0.838089617	1.06E-05	0.000116934
ENSMUSG0000039994	Timeless	timeless circadian clock 1	-0.653672957	1.06E-05	0.000116952
ENSMUSG00000052560	Cpne8	copine VIII	-0.639890632	1.06E-05	0.000117087
ENSMUSG00000097820	E530011L22Rik	RIKEN cDNA E530011L22 gene	-1.628016232	1.07E-05	0.000117087
ENSMUSG00000037001	Zfp39	zinc finger protein 39	-0.704786018	1.07E-05	0.000117484
ENSMUSG00000026580	Selp	selectin, platelet	0.693894858	1.07E-05	0.000117674
ENSMUSG00000021556	Golm1	golgi membrane protein 1	-0.65376426	1.07E-05	0.000117848
ENSMUSG000000095930	Nim1k	NIM1 serine/threonine protein kinase	-0.760779774	1.07E-05	0.000117848
ENSMUSG00000018189	Uchl5	ubiquitin carboxyl-terminal esterase L5	0.814442164	1.09E-05	0.000119234
ENSMUSG000000057113	Npm1	nucleophosmin 1	0.66789991	1.09E-05	0.000119396
ENSMUSG00000027544	Nfatc2	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 2	-1.525433886	1.09E-05	0.000119551
ENSMUSG00000038390	Gpr162	G protein-coupled receptor 162	1.560046691	1.09E-05	0.000119566
ENSMUSG00000028577	Plaa	phospholipase A2, activating protein	0.632356275	1.10E-05	0.000119994
ENSMUSG00000056305	Usp39	ubiquitin specific peptidase 39	0.667184074	1.10E-05	0.000120095
ENSMUSG00000038736	Nudcd1	NudC domain containing 1	0.817809093	1.10E-05	0.000120358
ENSMUSG00000030754	Copb1	coatamer protein complex, subunit beta 1	0.643528141	1.10E-05	0.00012054
ENSMUSG00000071847	Apcdd1	adenomatosis polyposis coli down-regulated 1	-1.08718969	1.11E-05	0.000121563
ENSMUSG00000025732	Fam195a	family with sequence similarity 195, member A	-1.578320695	1.11E-05	0.00012173
ENSMUSG00000019817	Plag1	pleiomorphic adenoma gene-like 1	1.124178181	1.11E-05	0.000121851
ENSMUSG00000013419	Zfp651	zinc finger protein 651	-1.126048249	1.13E-05	0.000123322
ENSMUSG00000085741	5430405H02Rik	RIKEN cDNA 5430405H02 gene	-1.110957784	1.13E-05	0.000123347
ENSMUSG00000016386	Mpped2	metallophosphoesterase domain containing 2	-1.240514935	1.13E-05	0.000123347
ENSMUSG00000029714	Gigy1	GRB10 interacting GYF protein 1	-0.961333927	1.13E-05	0.000123383
ENSMUSG00000037813	D630003M21Rik	RIKEN cDNA D630003M21 gene	-2.022342286	1.13E-05	0.00012343
ENSMUSG00000060183	Cxcl11	chemokine (C-X-C motif) ligand 11	2.690690329	1.13E-05	0.00012353
ENSMUSG00000032555	Topbp1	topoisomerase (DNA) II binding protein 1	0.68562468	1.13E-05	0.000123648
ENSMUSG00000010066	Caena2d2	calcium channel, voltage-dependent, alpha 2/delta subunit 2	-2.73229368	1.14E-05	0.000124744
ENSMUSG00000032380	Dapk2	death-associated protein kinase 2	1.086787708	1.15E-05	0.000125297
ENSMUSG00000022672	Prkdc	protein kinase, DNA activated, catalytic polypeptide	-0.623646654	1.15E-05	0.000125302
ENSMUSG00000052419	2610001J05Rik	RIKEN cDNA 2610001J05 gene	0.680770375	1.15E-05	0.000125482
ENSMUSG00000030224	Strap	serine/threonine kinase receptor associated protein	0.653496058	1.15E-05	0.000125482
ENSMUSG00000034881	Tbxa2r	thromboxane A2 receptor	-1.351381615	1.15E-05	0.000125482
ENSMUSG00000079499	6530402F18Rik	RIKEN cDNA 6530402F18 gene	-0.785643982	1.15E-05	0.000125492
ENSMUSG000000051579	Tcea8	transcription elongation factor A (SII)-like 8	0.673438207	1.16E-05	0.000126123
ENSMUSG00000020092	Pald1	phosphatase domain containing, paladin 1	0.825758937	1.16E-05	0.000126182
ENSMUSG00000037904	Ankrd9	ankyrin repeat domain 9	-1.237815692	1.16E-05	0.000126193
ENSMUSG00000027613	Eif6	eukaryotic translation initiation factor 6	0.644399502	1.17E-05	0.000126522
ENSMUSG00000026811	St6galnac6	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 6	-0.713320302	1.17E-05	0.00012719
ENSMUSG00000025068	Gsto1	glutathione S-transferase omega 1	0.806781407	1.18E-05	0.000127649
ENSMUSG00000024610	Cd74	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	-1.628260335	1.18E-05	0.000127649
ENSMUSG000000068101	Cenpm	centromere protein M	1.936227443	1.18E-05	0.000127934
ENSMUSG00000095253	Zfp799	zinc finger protein 799	-0.68843003	1.20E-05	0.000129656
ENSMUSG00000037072		15-Sep selenoprotein	0.627961918	1.20E-05	0.000130375
ENSMUSG00000086554	9530034E10Rik	RIKEN cDNA 9530034E10 gene	-2.547815534	1.21E-05	0.000130965
ENSMUSG00000027430	Dtd1	D-tyrosyl-tRNA deacylase 1	-0.818564295	1.22E-05	0.000131593
ENSMUSG00000026434	Nucks1	nuclear casein kinase and cyclin-dependent kinase substrate 1	0.667555816	1.22E-05	0.000132237
ENSMUSG00000032238	Rora	RAR-related orphan receptor alpha	-0.704097489	1.22E-05	0.000132237
ENSMUSG00000059839	Zfp874b	zinc finger protein 874b	-0.62548383	1.23E-05	0.000132363
ENSMUSG00000003379	Cd79a	CD79A antigen (immunoglobulin-associated alpha)	-1.377175731	1.22E-05	0.000132363
ENSMUSG00000028643	Ccdc23	coiled-coil domain containing 23	0.759784809	1.23E-05	0.000132572
ENSMUSG00000019868	Vta1	Vps20-associated 1 homolog (S. cerevisiae)	0.657915091	1.27E-05	0.000136964
ENSMUSG00000031834	Pik3r2	phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 2 (p85 beta)	-1.150465028	1.27E-05	0.000136964
ENSMUSG000000026211	Obsl1	obscurin-like 1	-1.521722099	1.27E-05	0.000137147
ENSMUSG00000036862	Dchs1	dachsous 1 (Drosophila)	0.60001987	1.27E-05	0.000137469
ENSMUSG00000034883	Lrr1	leucine rich repeat protein 1	2.657584576	1.28E-05	0.000138357
ENSMUSG00000040195	Tmem194	transmembrane protein 194	0.828286921	1.29E-05	0.000138645
ENSMUSG00000024112	Caena1h	calcium channel, voltage-dependent, T type, alpha 1H subunit	-1.386883162	1.29E-05	0.000138668
ENSMUSG00000041308	Sntb2	syntrophin, basic 2	0.633529774	1.29E-05	0.000138682
ENSMUSG00000024948	Map4k2	mitogen-activated protein kinase kinase kinase 2	-0.825409374	1.30E-05	0.000139624
ENSMUSG00000047146	Tet1	tet methylcytosine dioxygenase 1	-1.171937226	1.30E-05	0.000139934
ENSMUSG00000024976	Shoc2	soc-2 (suppressor of clear) homolog (C. elegans)	0.617623382	1.31E-05	0.000141323
ENSMUSG000000087142	Gm12454	predicted gene 12454	-1.611354374	1.32E-05	0.000141966
ENSMUSG00000052726	Kcnt2	potassium channel, subfamily T, member 2	-1.000619593	1.33E-05	0.000143387
ENSMUSG00000019647	Sema6a	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A	-0.58922328	1.34E-05	0.000143661
ENSMUSG00000037434	Slc30a1	solute carrier family 30 (zinc transporter), member 1	-0.622907588	1.34E-05	0.000143738
ENSMUSG000000065445	Mir143	microRNA 143	-2.533997999	1.34E-05	0.000143989
ENSMUSG000000097715	Gpr137b-ps	G protein-coupled receptor 137B, pseudogene	-0.828671549	1.34E-05	0.000144208
ENSMUSG00000020787	P2rx1	purinergic receptor P2X, ligand-gated ion channel, 1	1.125339842	1.35E-05	0.000144332
ENSMUSG000000054364	Rhob	ras homolog gene family, member B	0.92512979	1.35E-05	0.000144332
ENSMUSG000000064127	Med14	mediator complex subunit 14	0.652001278	1.35E-05	0.000144756
ENSMUSG000000021182	Ccdc88c	coiled-coil domain containing 88C	-0.693092668	1.36E-05	0.000146034

ENSMUSG0000000739	Cct4	chaperonin containing Tcp1, subunit 4 (delta)	0.656588303	1.37E-05	0.000146353
ENSMUSG00000000037	Scml2	sex comb on midleg-like 2 (Drosophila)	1.685685648	1.37E-05	0.000146433
ENSMUSG000000036568	Gltsr1l	GLTSCR1-like	-0.691506984	1.37E-05	0.000146711
ENSMUSG000000022636	Alcam	activated leukocyte cell adhesion molecule	1.021831064	1.38E-05	0.000147775
ENSMUSG000000040563	Lppr2	lipid phosphate phosphatase-related protein type 2	-0.989122281	1.38E-05	0.000147798
ENSMUSG000000018428	Akap1	A kinase (PKA) anchor protein 1	-0.651023833	1.39E-05	0.000148309
ENSMUSG000000072915	Gm12258	predicted gene 12258	-0.897165564	1.39E-05	0.000148566
ENSMUSG000000044393	Dsg2	desmoglein 2	-1.584915436	1.40E-05	0.000149316
ENSMUSG000000029992	Gtp1	glutamine fructose-6-phosphate transaminase 1	0.674039792	1.40E-05	0.000149423
ENSMUSG000000032305	Fam219b	family with sequence similarity 219, member B	-0.640346878	1.40E-05	0.000149548
ENSMUSG000000071317	Bves	blood vessel epicardial substance	-1.678745504	1.40E-05	0.000149548
ENSMUSG000000043505	Gimap5	GTPase, IMAP family member 5	0.644404962	1.42E-05	0.000151372
ENSMUSG000000028614	Ndc1	NDC1 transmembrane nucleoporin	0.933188468	1.42E-05	0.000151738
ENSMUSG0000000103567	Pcdhga5	protocadherin gamma subfamily A, 5	-0.696963262	1.42E-05	0.000151738
ENSMUSG000000041079	Rwdd2b	RWD domain containing 2B	1.03802744	1.43E-05	0.000152224
ENSMUSG000000021576	Pdcd6	programmed cell death 6	0.636811091	1.44E-05	0.000153294
ENSMUSG000000049858	Suox	sulfite oxidase	-0.795562061	1.45E-05	0.000154216
ENSMUSG000000022656	Pvr13	poliovirus receptor-related 3	0.671159379	1.45E-05	0.000154234
ENSMUSG000000021314	Amph	amphiphysin	-1.260126091	1.46E-05	0.000155109
ENSMUSG000000062861	Zfp28	zinc finger protein 28	0.734048086	1.46E-05	0.000155595
ENSMUSG000000029862	Cicn1	chloride channel 1	-2.517903655	1.47E-05	0.000156064
ENSMUSG000000032355	Mlip	muscular LMNA-interacting protein	-2.347801813	1.47E-05	0.000156417
ENSMUSG000000048330	Ric3	resistance to inhibitors of cholinesterase 3 homolog (C. elegans)	-0.692375134	1.48E-05	0.000157229
ENSMUSG000000027312	Atrn	attractin	0.620121621	1.48E-05	0.000157304
ENSMUSG000000060913	Trim55	tripartite motif-containing 55	-2.295692842	1.49E-05	0.000157898
ENSMUSG000000029059	Fam213b	family with sequence similarity 213, member B	-1.168417188	1.49E-05	0.000157937
ENSMUSG000000026174	Rqcd1	rqcd1 (required for cell differentiation) homolog 1 (S. pombe)	0.674277589	1.50E-05	0.000158806
ENSMUSG000000025161	Slc16a3	solute carrier family 16 (monocarboxylic acid transporters), member 3	1.523361064	1.50E-05	0.000159378
ENSMUSG000000028884	Rpa2	replication protein A2	0.779375186	1.50E-05	0.000159378
ENSMUSG000000031918	Mttr2	myotubularin related protein 2	0.606694175	1.51E-05	0.000159974
ENSMUSG000000018417	Myo1b	myosin IB	0.630339318	1.51E-05	0.00016029
ENSMUSG000000041115	Iqsec2	IQ motif and Sec7 domain 2	-0.689896336	1.51E-05	0.00016029
ENSMUSG000000038384	Setd1b	SET domain containing 1B	-0.864269903	1.52E-05	0.000160404
ENSMUSG000000055725	Paqr3	progesterin and adipoQ receptor family member III	-0.953278688	1.52E-05	0.00016062
ENSMUSG000000032816	Igdcc4	immunoglobulin superfamily, DCC subclass, member 4	-1.681006926	1.52E-05	0.00016062
ENSMUSG00000002014	Ssr4	signal sequence receptor, delta	0.625062677	1.52E-05	0.00016064
ENSMUSG000000074480	Mex3a	mex3 homolog A (C. elegans)	0.860717893	1.52E-05	0.000160682
ENSMUSG000000034327	Kctd9	potassium channel tetramerisation domain containing 9	0.663654688	1.52E-05	0.000160758
ENSMUSG000000031776	Arl2bp	ADP-ribosylation factor-like 2 binding protein	0.619301474	1.52E-05	0.000160805
ENSMUSG000000036435	Exoc1	exocyst complex component 1	0.633560288	1.53E-05	0.000161356
ENSMUSG000000060002	Chpt1	choline phosphotransferase 1	-0.660947936	1.53E-05	0.000161415
ENSMUSG000000034075	Zdhhc5	zinc finger, DHHC domain containing 5	0.622194003	1.53E-05	0.000161749
ENSMUSG000000029047	Pex10	peroxisomal biogenesis factor 10	-0.862328356	1.54E-05	0.000161873
ENSMUSG000000050106	Tmc8	transmembrane channel-like gene family 8	-0.921753156	1.54E-05	0.000161873
ENSMUSG000000063659	Zbtb18	zinc finger and BTB domain containing 18	0.661485878	1.54E-05	0.00016203
ENSMUSG000000026678	Rgs5	regulator of G-protein signaling 5	-0.669972354	1.54E-05	0.000162123
ENSMUSG000000028111	Ctsk	cathepsin K	0.945499805	1.54E-05	0.000162437
ENSMUSG000000025340	Rabgef1	RAB guanine nucleotide exchange factor (GEF) 1	0.701990355	1.56E-05	0.000164417
ENSMUSG000000041378	Cldn5	claudin 5	1.512410814	1.57E-05	0.000164595
ENSMUSG000000002578	Ikzf4	IKAROS family zinc finger 4	-0.937662834	1.57E-05	0.000164641
ENSMUSG000000074813	Gm14005	predicted gene 14005	0.853806153	1.57E-05	0.000164708
ENSMUSG000000051343	Rab11fp5	RAB11 family interacting protein 5 (class I)	0.601871658	1.57E-05	0.000164708
ENSMUSG000000034586	Hid1	HID1 domain containing	0.646689435	1.57E-05	0.000165031
ENSMUSG000000021701	Plk2	polo-like kinase 2	0.658089017	1.58E-05	0.000165333
ENSMUSG000000042410	Agps	alkylglycerone phosphate synthase	0.648235392	1.58E-05	0.000165333
ENSMUSG000000019987	Arg1	arginase, liver	5.583863124	1.58E-05	0.000165337
ENSMUSG000000032053	Pou2af1	POU domain, class 2, associating factor 1	-1.450438646	1.58E-05	0.000165729
ENSMUSG000000027309	4930402H24Rik	RIKEN cDNA 4930402H24 gene	0.632779284	1.58E-05	0.000166047
ENSMUSG000000027940	Tpm3	tropomyosin 3, gamma	0.595883622	1.59E-05	0.000166587
ENSMUSG000000020440	Arf5	ADP-ribosylation factor 5	0.679731255	1.59E-05	0.000166726
ENSMUSG0000000103220	RP23-459L15.8		-1.072897792	1.60E-05	0.00016712
ENSMUSG000000064413	Gm22245	predicted gene, 22245	-6.873708765	1.60E-05	0.000167915
ENSMUSG000000020263	App12	adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 2	-0.679900825	1.62E-05	0.000169028
ENSMUSG0000000022575	Gsdmd	gasdermin D	-0.656041832	1.62E-05	0.000169496
ENSMUSG000000032702	Kank1	KN motif and ankyrin repeat domains 1	-0.86719518	1.62E-05	0.00016962
ENSMUSG000000031486	Gpr124	G protein-coupled receptor 124	0.735850426	1.63E-05	0.000170051
ENSMUSG000000031517	Gpm6a	glycoprotein m6a	-1.051959583	1.63E-05	0.000170051
ENSMUSG000000033697	Arhgap39	Rho GTPase activating protein 39	-0.922769324	1.64E-05	0.000171004
ENSMUSG000000020778	Ten1	TEN1 telomerase capping complex subunit	0.999728801	1.64E-05	0.000171148
ENSMUSG000000000631	Myo18a	myosin XVIIIa	-0.639606906	1.66E-05	0.000173357
ENSMUSG000000079834	Tmlhe	trimethyllysine hydroxylase, epsilon	0.75849084	1.66E-05	0.000173372
ENSMUSG000000044499	Hs3st5	heparan sulfate (glucosamine) 3-O-sulfotransferase 5	-3.602912984	1.67E-05	0.000173826
ENSMUSG000000031748	Gnao1	guanine nucleotide binding protein, alpha O	-1.104780485	1.67E-05	0.000173835

ENSMUSG00000039706	Ldb2	LIM domain binding 2	0.615874474	1.68E-05	0.000174683
ENSMUSG00000038248	Sobp	sine oculis-binding protein homolog (Drosophila)	-1.104671732	1.68E-05	0.000174683
ENSMUSG00000014554	Dguok	deoxyguanosine kinase	-0.653628613	1.68E-05	0.000174903
ENSMUSG00000022211	Lrhc16b	leucine rich repeat containing 16B	-1.483652878	1.71E-05	0.000177552
ENSMUSG000000051000	Fam160a1	family with sequence similarity 160, member A1	-1.002788885	1.71E-05	0.000177831
ENSMUSG00000014198	Zfp385c	zinc finger protein 385C	-2.782160112	1.71E-05	0.000178208
ENSMUSG000000021820	Camk2g	calcium/calmodulin-dependent protein kinase II gamma	-0.657173563	1.71E-05	0.000178288
ENSMUSG000000008859	Rala	v-ral simian leukemia viral oncogene homolog A (ras related)	0.639861885	1.72E-05	0.000178949
ENSMUSG000000028149	Rap1gds1	RAP1, GTP-GDP dissociation stimulator 1	0.651626567	1.74E-05	0.000180943
ENSMUSG000000009145	Dqx1	DEAQ RNA-dependent ATPase	-0.97054524	1.75E-05	0.000181545
ENSMUSG00000018796	Acs1	acyl-CoA synthetase long-chain family member 1	-0.595697254	1.76E-05	0.000182445
ENSMUSG000000037896	Rcor1	REST corepressor 1	0.644264932	1.77E-05	0.000183308
ENSMUSG000000028405	Aco1	aconitase 1	0.643879086	1.77E-05	0.000183308
ENSMUSG000000020154	Ptprb	protein tyrosine phosphatase, receptor type, B	-0.631830156	1.77E-05	0.000183308
ENSMUSG000000036437	Npy1r	neuropeptide Y receptor Y1	-0.905212713	1.77E-05	0.000183537
ENSMUSG000000063445	Nmral1	Nmra-like family domain containing 1	0.904455755	1.77E-05	0.000183697
ENSMUSG000000042622	Maff	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein F (avian)	1.201299954	1.78E-05	0.000184435
ENSMUSG000000022024	Sugt1	SGT1, suppressor of G2 allele of SKP1 (S. cerevisiae)	0.624976131	1.78E-05	0.000184435
ENSMUSG000000030431	Tmem238	transmembrane protein 238	-1.045194619	1.78E-05	0.000184435
ENSMUSG000000035112	Wnk4	WNK lysine deficient protein kinase 4	-2.024927322	1.78E-05	0.000184435
ENSMUSG000000050390	C77080	expressed sequence C77080	1.568724159	1.81E-05	0.000186726
ENSMUSG000000016528	Mapkapk2	MAP kinase-activated protein kinase 2	0.576370118	1.81E-05	0.000186879
ENSMUSG00000017707	Serinc3	serine incorporator 3	0.633822363	1.81E-05	0.000187171
ENSMUSG000000026839	Upp2	uridine phosphorylase 2	-1.050735634	1.82E-05	0.000188305
ENSMUSG000000071722	Spin4	spindlin family, member 4	0.759762012	1.82E-05	0.000188322
ENSMUSG000000030409	Dmpk	dystrophin myotonic-protein kinase	-1.717133414	1.82E-05	0.000188322
ENSMUSG000000058402	Zip420	zinc finger protein 420	-0.736737515	1.84E-05	0.000189416
ENSMUSG000000029064	Gnb1	guanine nucleotide binding protein (G protein), beta 1	0.600478487	1.84E-05	0.000189598
ENSMUSG0000000036275	9530068E07Rik	RIKEN cDNA 9530068E07 gene	0.607560999	1.84E-05	0.000189608
ENSMUSG000000034738	Nostrin	nitric oxide synthase trafficker	0.62471564	1.84E-05	0.000189705
ENSMUSG000000040990	Sh3kbp1	SH3-domain kinase binding protein 1	0.668359183	1.85E-05	0.00019078
ENSMUSG00000010307	Tmem86a	transmembrane protein 86A	-0.78694276	1.86E-05	0.000191446
ENSMUSG000000021367	Edn1	endothelin 1	0.641613981	1.87E-05	0.000192536
ENSMUSG000000002997	Prkar2b	protein kinase, cAMP dependent regulatory, type II beta	1.057262556	1.87E-05	0.000192649
ENSMUSG000000030077	Chl1	cell adhesion molecule with homology to L1CAM	-1.281470997	1.88E-05	0.000193194
ENSMUSG000000055239	Kcmf1	potassium channel modulatory factor 1	0.607328162	1.88E-05	0.000193281
ENSMUSG000000030737	Slc02b1	solute carrier organic anion transporter family, member 2b1	-0.755418248	1.89E-05	0.000193975
ENSMUSG000000036854	Hspb6	heat shock protein, alpha-crystallin-related, B6	-0.856714149	1.89E-05	0.000194127
ENSMUSG000000021313	Ryr2	ryanodine receptor 2, cardiac	-1.996068034	1.89E-05	0.000194297
ENSMUSG000000001741	Il16	interleukin 16	-0.562370386	1.89E-05	0.000194406
ENSMUSG000000026825	Dnm1	dynamitin 1	-1.383322247	1.89E-05	0.000194406
ENSMUSG000000031075	Ano1	anoctamin 1, calcium activated chloride channel	-0.682895262	1.90E-05	0.000195341
ENSMUSG000000104271	RP23-303M15.4		-2.677751338	1.91E-05	0.000196447
ENSMUSG000000024376	Epb4.114a	erythrocyte protein band 4.1-like 4a	-0.632067167	1.92E-05	0.000196594
ENSMUSG000000062014	Gmfb	glia maturation factor, beta	0.626345612	1.93E-05	0.00019767
ENSMUSG000000034157	Cipc	CLOCK interacting protein, circadian	-0.964007179	1.95E-05	0.000199431
ENSMUSG000000037892	Pcdh18	protocadherin 18	-0.596431547	1.95E-05	0.000199617
ENSMUSG000000031584	Gsr	glutathione reductase	0.63382688	1.95E-05	0.000199734
ENSMUSG000000030861	Acad5b	acyl-Coenzyme A dehydrogenase, short/branched chain	1.436812468	1.95E-05	0.000199783
ENSMUSG000000073485	H3f3aos	H3 histone, family 3A, opposite strand	-1.127601137	1.96E-05	0.000200277
ENSMUSG000000055134	9130017K11Rik	RIKEN cDNA 9130017K11 gene	-1.008046535	1.96E-05	0.000200752
ENSMUSG000000025757	Hspa4l	heat shock protein 4 like	0.67165449	1.97E-05	0.000201279
ENSMUSG000000006216	Cicnkb	chloride channel Kb	-5.313424798	1.97E-05	0.00020151
ENSMUSG000000032435	Dync1li1	dynein cytoplasmic 1 light intermediate chain 1	0.611670825	1.98E-05	0.000202251
ENSMUSG000000033940	Brk1	BRICK1, SCAR/WAVE actin-nucleating complex subunit	0.631484155	1.99E-05	0.000202749
ENSMUSG000000097559	D430018E03Rik	RIKEN cDNA D430018E03 gene	-1.204049911	1.98E-05	0.000202749
ENSMUSG000000024146	Cript	cysteine-rich PDZ-binding protein	0.650127966	2.02E-05	0.000205744
ENSMUSG000000041870	Ankrd13a	ankyrin repeat domain 13a	0.597377811	2.02E-05	0.000205822
ENSMUSG000000029617	Ccz1	CCZ1 vacuolar protein trafficking and biogenesis associated	0.623614018	2.03E-05	0.000207207
ENSMUSG000000053080	2700081O15Rik	RIKEN cDNA 2700081O15 gene	-0.601901465	2.04E-05	0.000207434
ENSMUSG000000029469	Ift81	intraflagellar transport 81	-0.749145628	2.03E-05	0.000207434
ENSMUSG00000001054	Rmnd5b	required for meiotic nuclear division 5 homolog B (S. cerevisiae)	0.704614862	2.04E-05	0.000207771
ENSMUSG000000068748	Ptpnz1	protein tyrosine phosphatase, receptor type Z, polypeptide 1	-1.366878531	2.06E-05	0.000209411
ENSMUSG000000003992	Ssbp2	single-stranded DNA binding protein 2	-0.828924686	2.06E-05	0.000210055
ENSMUSG000000031647	Mfap3l	microfibrillar-associated protein 3-like	0.78542357	2.07E-05	0.000210689
ENSMUSG000000025154	Arhgap19	Rho GTPase activating protein 19	1.032331855	2.07E-05	0.000211018
ENSMUSG000000028757	Ddost	dolichyl-di-phosphooligosaccharide-protein glycotransferase	0.615148382	2.07E-05	0.000211018
ENSMUSG000000029778	Adcyap1r1	adenylate cyclase activating polypeptide 1 receptor 1	-0.952730965	2.08E-05	0.000211099
ENSMUSG000000023959	Clic5	chloride intracellular channel 5	-0.594709311	2.09E-05	0.000212843
ENSMUSG000000058056	Palld	palladin, cytoskeletal associated protein	-1.733205383	2.10E-05	0.000212915
ENSMUSG000000022540	Rogdi	rogdi homolog (Drosophila)	-0.93344059	2.10E-05	0.000213054
ENSMUSG000000020700	Map3k3	mitogen-activated protein kinase kinase kinase 3	0.585635442	2.12E-05	0.000214962
ENSMUSG000000004070	Hmox2	heme oxygenase (decycling) 2	0.64074096	2.13E-05	0.000215762

ENSMUSG00000099689	ZNF383	zinc finger protein 383	-0.831149399	2.13E-05	0.00021611
ENSMUSG00000030532	Hddc3	HD domain containing 3	-1.071177815	2.14E-05	0.000216872
ENSMUSG00000030545	Pex11a	peroxisomal biogenesis factor 11 alpha	-1.821273867	2.16E-05	0.000218532
ENSMUSG00000063698	Sfxn4	sideroflexin 4	-0.858106378	2.16E-05	0.000218887
ENSMUSG00000020427	Igfbp3	insulin-like growth factor binding protein 3	1.466924395	2.16E-05	0.000219075
ENSMUSG00000059554	Ccdc28a	coiled-coil domain containing 28A	-0.9828012	2.16E-05	0.000219192
ENSMUSG00000024301	Kifc5b	kinesin family member C5B	1.792423088	2.17E-05	0.000219555
ENSMUSG00000049225	Pdp1	pyruvate dehydrogenase phosphatase catalytic subunit 1	0.640302015	2.18E-05	0.000220279
ENSMUSG00000025066	Sfr1	SWI5 dependent recombination repair 1	0.61395184	2.18E-05	0.000220279
ENSMUSG00000032939	Nup93	nucleoporin 93	0.673832686	2.18E-05	0.000220456
ENSMUSG00000095217	Hist1h2bn	histone cluster 1, H2bn	2.049008964	2.19E-05	0.000221138
ENSMUSG00000026204	Ptpn	protein tyrosine phosphatase, receptor type, N	2.956077801	2.20E-05	0.000221872
ENSMUSG00000052456	Asna1	arsA arsenite transporter, ATP-binding, homolog 1 (bacterial)	0.663122175	2.20E-05	0.000221872
ENSMUSG00000032402	Smad3	SMAD family member 3	0.675115267	2.20E-05	0.000221943
ENSMUSG00000025141	Myadml2	myeloid-associated differentiation marker-like 2	-2.027953635	2.21E-05	0.000222933
ENSMUSG00000079658	Tceb1	transcription elongation factor B (SIII), polypeptide 1	0.648076199	2.22E-05	0.000224424
ENSMUSG00000027238	Frdm5	FERM domain containing 5	-2.287473829	2.23E-05	0.000225058
ENSMUSG00000041828	Abca8a	ATP-binding cassette, sub-family A (ABC1), member 8a	-1.05300624	2.23E-05	0.000225132
ENSMUSG00000021193	Pitrm1	pitrilysin metallopeptidase 1	0.621886696	2.24E-05	0.00022529
ENSMUSG00000028909	Ptpnru	protein tyrosine phosphatase, receptor type, U	-1.045927124	2.24E-05	0.000225694
ENSMUSG00000102326	RP24-227F14.5		-0.828851577	2.24E-05	0.000225865
ENSMUSG00000028932	Psmc2	proteasome (prosome, macropain) 26S subunit, ATPase 2	0.627046111	2.25E-05	0.000227025
ENSMUSG00000045659	Plekha7	pleckstrin homology domain containing, family A member 7	0.759807633	2.26E-05	0.000227847
ENSMUSG00000039126	Prune2	prune homolog 2 (Drosophila)	-2.447810108	2.30E-05	0.000231105
ENSMUSG00000030751	Pasma1	proteasome (prosome, macropain) subunit, alpha type 1	0.636148941	2.31E-05	0.000232575
ENSMUSG00000015714	Cers2	ceramide synthase 2	0.609332315	2.31E-05	0.000232579
ENSMUSG00000090174	Gm10612	predicted gene 10612	-2.745969125	2.31E-05	0.000232579
ENSMUSG00000009876	Cox4i2	cytochrome c oxidase subunit IV isoform 2	-0.759758477	2.33E-05	0.000234403
ENSMUSG00000032352	Lrrc1	leucine rich repeat containing 1	-0.760890395	2.33E-05	0.000234403
ENSMUSG00000022421	Nptxr	neuronal pentraxin receptor	0.73526296	2.34E-05	0.000234837
ENSMUSG00000026023	Cdk15	cyclin-dependent kinase 15	-2.140969005	2.34E-05	0.000234962
ENSMUSG00000027808	Serp1	stress-associated endoplasmic reticulum protein 1	0.607771912	2.34E-05	0.000235031
ENSMUSG00000098973	Mir6236	microRNA 6236	0.954418794	2.37E-05	0.000237621
ENSMUSG00000045441	Gprn3	GPRIN family member 3	1.353350765	2.37E-05	0.000237967
ENSMUSG00000012076	Brms1l	breast cancer metastasis-suppressor 1-like	0.744040923	2.38E-05	0.000238665
ENSMUSG00000029110	Rnf4	ring finger protein 4	0.601378715	2.38E-05	0.000238665
ENSMUSG00000042644	Itp3	inositol 1,4,5-triphosphate receptor 3	-1.182681428	2.38E-05	0.000238665
ENSMUSG000000084141	Olf1r1372-ps1	olfactory receptor 1372, pseudogene 1	-1.35224715	2.38E-05	0.000238704
ENSMUSG00000052033	Pfdn4	prefoldin 4	0.756954072	2.40E-05	0.000239878
ENSMUSG00000031897	Psmb10	proteasome (prosome, macropain) subunit, beta type 10	-1.092139655	2.40E-05	0.000239878
ENSMUSG00000019845	Tube1	epsilon-tubulin 1	1.581682319	2.40E-05	0.000240126
ENSMUSG00000021178	Psmc1	protease (prosome, macropain) 26S subunit, ATPase 1	0.615674837	2.40E-05	0.000240126
ENSMUSG00000026875	Traf1	TNF receptor-associated factor 1	0.859401031	2.41E-05	0.000241328
ENSMUSG00000059854	Hydin	HYDIN, axonemal central pair apparatus protein	-3.165027426	2.43E-05	0.000242886
ENSMUSG00000038351	Sgsm2	small G protein signaling modulator 2	-1.031795897	2.44E-05	0.000243213
ENSMUSG00000049537	Tec1l	trans-2,3-enoyl-CoA reductase-like	-1.415382282	2.44E-05	0.000243404
ENSMUSG00000070287	Slc35g2	solute carrier family 35, member G2	0.814730543	2.44E-05	0.000243549
ENSMUSG00000029484	Anxa3	annexin A3	0.585977122	2.44E-05	0.000243549
ENSMUSG00000005656	Srx6	sorting nexin 6	0.639265159	2.44E-05	0.000243823
ENSMUSG00000058997	Vva8	von Willebrand factor A domain containing 8	-0.701430663	2.45E-05	0.000244213
ENSMUSG00000028416	Bag1	BCL2-associated athanogene 1	0.615793783	2.45E-05	0.000244257
ENSMUSG000000066571	4931406P16Rik	RIKEN cDNA 4931406P16 gene	0.555946589	2.45E-05	0.000244562
ENSMUSG00000037787	Apopt1	apoptogenic, mitochondrial 1	-0.724914376	2.46E-05	0.000245461
ENSMUSG00000085396	Firre	functional intergenic repeating RNA element	-0.708445719	2.48E-05	0.000246881
ENSMUSG00000104030	RP23-459L15.7		-0.976592359	2.48E-05	0.000246881
ENSMUSG00000029636	Wasf3	WAS protein family, member 3	-1.557319738	2.48E-05	0.000246881
ENSMUSG00000018983	E2f2	E2F transcription factor 2	1.833443748	2.49E-05	0.000247566
ENSMUSG00000098702	1500015A07Rik	RIKEN cDNA 1500015A07 gene	1.461198892	2.49E-05	0.000247566
ENSMUSG00000006715	Gmnn	geminin	1.284710245	2.49E-05	0.000247566
ENSMUSG00000045257	Morn2	MORN repeat containing 2	-1.222911038	2.50E-05	0.000248132
ENSMUSG00000021520	Uqcrb	ubiquinol-cytochrome c reductase binding protein	0.699489871	2.52E-05	0.000250238
ENSMUSG00000032096	Arcn1	archain 1	0.611977896	2.52E-05	0.000250238
ENSMUSG00000072623	Zip9	zinc finger protein 9	0.756851881	2.53E-05	0.000250594
ENSMUSG00000021290	2010107E04Rik	RIKEN cDNA 2010107E04 gene	0.663156691	2.53E-05	0.000250594
ENSMUSG00000027429	Sec23b	SEC23B (S. cerevisiae)	0.641022514	2.53E-05	0.000250594
ENSMUSG00000030282	Cmas	cytidine monophospho-N-acetylneuraminic acid synthetase	0.626846937	2.57E-05	0.000254548
ENSMUSG00000029209	Gnpda2	glucosamine-6-phosphate deaminase 2	0.635034567	2.57E-05	0.000254975
ENSMUSG00000031949	Adat1	adenosine deaminase, tRNA-specific 1	-1.019395783	2.58E-05	0.000255262
ENSMUSG00000059878	Zip422	zinc finger protein 422	0.828721622	2.59E-05	0.000256425
ENSMUSG00000019461	Plscr3	phospholipid scramblase 3	0.598025203	2.59E-05	0.000256738
ENSMUSG00000028069	Gpatch4	G patch domain containing 4	0.851702818	2.60E-05	0.000256934
ENSMUSG00000002870	Mcm2	minichromosome maintenance deficient 2 mitotin (S. cerevisiae)	1.161630878	2.61E-05	0.000258048
ENSMUSG00000018395	Kif3a	kinesin family member 3A	0.70932651	2.61E-05	0.000258048

ENSMUSG0000000632	Sez6	seizure related gene 6	-1.07327112	2.63E-05	0.000260384
ENSMUSG00000040883	Tmem205	transmembrane protein 205	-1.032127464	2.64E-05	0.000261171
ENSMUSG000000093482	Gm20619	predicted gene 20619	-3.506853233	2.64E-05	0.000261171
ENSMUSG000000031636	Pdlim3	PDZ and LIM domain 3	-0.713720904	2.65E-05	0.000261258
ENSMUSG00000019806	Aig1	androgen-induced 1	-0.645566829	2.65E-05	0.000261733
ENSMUSG000000039795	Zfand1	zinc finger, AN1-type domain 1	-0.924327365	2.66E-05	0.000262205
ENSMUSG000000039529	Atp8b1	ATPase, class 1, type 8B, member 1	0.612156709	2.66E-05	0.000262295
ENSMUSG000000029534	St7	suppression of tumorigenicity 7	0.682981068	2.67E-05	0.000262717
ENSMUSG000000063488	Zkscan7	zinc finger with KRAB and SCAN domains 7	-1.11282894	2.66E-05	0.000262717
ENSMUSG000000020309	Chac2	ChaC, cation transport regulator 2	1.022499037	2.67E-05	0.000262733
ENSMUSG000000032388	Spg21	spastic paraplegia 21 homolog (human)	0.621677116	2.67E-05	0.00026285
ENSMUSG000000029249	Rest	RE1-silencing transcription factor	0.60093728	2.68E-05	0.000263457
ENSMUSG000000038602	Sic35f1	solute carrier family 35, member F1	1.023673423	2.68E-05	0.000264209
ENSMUSG000000074457	S100a16	S100 calcium binding protein A16	0.600578505	2.69E-05	0.000264392
ENSMUSG000000043613	Mmp3	matrix metalloproteinase 3	3.179156931	2.70E-05	0.000265317
ENSMUSG000000039903	Eva1c	eva-1 homolog C (C. elegans)	1.881899882	2.70E-05	0.000265317
ENSMUSG000000023953	Polh	polymerase (DNA directed), eta (RAD 30 related)	0.711995702	2.70E-05	0.000265317
ENSMUSG000000043795	Prr33	proline rich 33	-2.86663422	2.70E-05	0.000265317
ENSMUSG000000029070	Mxra8	matrix-remodelling associated 8	0.758250339	2.71E-05	0.000265895
ENSMUSG000000051412	Vamp7	vesicle-associated membrane protein 7	0.662039669	2.71E-05	0.000265895
ENSMUSG000000033863	Klf9	Kruppel-like factor 9	-1.023354827	2.71E-05	0.000265904
ENSMUSG000000078784	1810022K09Rik	RIKEN cDNA 1810022K09 gene	0.751914637	2.72E-05	0.0002668
ENSMUSG000000048701	Ccdc6	coiled-coil domain containing 6	0.607533589	2.72E-05	0.0002668
ENSMUSG000000024411	Aqp4	aquaporin 4	-2.425716432	2.72E-05	0.0002668
ENSMUSG000000034903	Cobll1	CobL-like 1	0.659206554	2.74E-05	0.000268225
ENSMUSG000000046387	Pcdhb17	protocadherin beta 17	0.638585539	2.74E-05	0.000268225
ENSMUSG000000037754	Ppp1r16b	protein phosphatase 1, regulatory (inhibitor) subunit 16B	-0.557646917	2.75E-05	0.000269101
ENSMUSG000000102319	RP23-68D4.1		-1.222220088	2.75E-05	0.000269545
ENSMUSG000000054808	Actn4	actinin alpha 4	0.583827655	2.77E-05	0.000271016
ENSMUSG000000023048	Prr13	proline rich 13	0.620550955	2.77E-05	0.000271347
ENSMUSG000000024454	Hdac3	histone deacetylase 3	0.594022469	2.79E-05	0.000272558
ENSMUSG000000024487	Yip5	Yip1 domain family, member 5	0.656076133	2.79E-05	0.000272662
ENSMUSG000000017499	Cdc6	cell division cycle 6	1.554905791	2.79E-05	0.00027289
ENSMUSG000000008193	Spib	Spi-B transcription factor (Spi-1/PU.1 related)	-1.446406492	2.83E-05	0.000276282
ENSMUSG000000022525	Hrasls	HRAS-like suppressor	-1.650081853	2.83E-05	0.000276846
ENSMUSG000000038260	Trpm4	transient receptor potential cation channel, subfamily M, member 4	-1.030141193	2.85E-05	0.000278274
ENSMUSG000000025578	Cbx8	chromobox 8	-0.799821847	2.85E-05	0.00027866
ENSMUSG000000024907	Gal	galanin	4.451980344	2.88E-05	0.00028063
ENSMUSG000000039361	Picalm	phosphatidylinositol binding clathrin assembly protein	0.546091632	2.88E-05	0.000281139
ENSMUSG000000031231	Cox7b	cytochrome c oxidase subunit VIIb	0.621008584	2.88E-05	0.0002812
ENSMUSG000000020325	Fstl3	folliculin-like 3	0.945984259	2.89E-05	0.00028131
ENSMUSG000000015846	Rxra	retinoid X receptor alpha	-0.638301456	2.90E-05	0.00028222
ENSMUSG000000025507	Pidd1	p53 induced death domain protein 1	1.24000015	2.90E-05	0.000282615
ENSMUSG000000029622	Arpc1b	actin related protein 2/3 complex, subunit 1B	0.666222859	2.91E-05	0.000283007
ENSMUSG000000059049	Frem1	Fras1 related extracellular matrix protein 1	2.969118	2.91E-05	0.000283159
ENSMUSG000000025762	Larp1b	La ribonucleoprotein domain family, member 1B	0.667411385	2.91E-05	0.000283329
ENSMUSG000000073491	Pyd4	pyrin domain containing 4	-1.069989733	2.93E-05	0.000284852
ENSMUSG000000097115	1810019N24Rik	RIKEN cDNA 1810019N24 gene	-1.255492396	2.93E-05	0.000285357
ENSMUSG000000021266	Sic25a29	solute carrier family 25 (mitochondrial carrier, palmitoylcarnitine transporter), member 29	-1.405674934	2.94E-05	0.000285919
ENSMUSG000000036461	Elf1	E74-like factor 1	0.68297465	2.95E-05	0.000286452
ENSMUSG000000057000	Selt	selenoprotein T	0.610834787	2.95E-05	0.000286452
ENSMUSG000000022579	Gpihbp1	GPI-anchored HDL-binding protein 1	1.005811273	2.96E-05	0.000287635
ENSMUSG000000027341	Tmem230	transmembrane protein 230	-0.72162686	2.97E-05	0.000288738
ENSMUSG000000046679	C87436	expressed sequence C87436	-0.639157334	3.00E-05	0.000290873
ENSMUSG000000025358	Cdk2	cyclin-dependent kinase 2	0.641767705	3.01E-05	0.000291903
ENSMUSG000000056531	Ccdc18	coiled-coil domain containing 18	1.809310477	3.02E-05	0.000292407
ENSMUSG000000029610	Aimp2	aminoacyl tRNA synthetase complex-interacting multifunctional protein 2	0.776111973	3.02E-05	0.000293193
ENSMUSG000000102811	RP23-82P18.2		-1.088751361	3.03E-05	0.000293713
ENSMUSG000000022360	Atad2	ATPase family, AAA domain containing 2	1.341033374	3.03E-05	0.000293789
ENSMUSG000000022416	Cacna1i	calcium channel, voltage-dependent, alpha 1I subunit	-2.066588916	3.05E-05	0.000294938
ENSMUSG000000046668	Cxxc5	CXXC finger 5	0.663121291	3.06E-05	0.000295866
ENSMUSG000000039697	Ncoa7	nuclear receptor coactivator 7	0.843076151	3.06E-05	0.000296542
ENSMUSG000000014786	Sic9a5	solute carrier family 9 (sodium/hydrogen exchanger), member 5	0.756857668	3.07E-05	0.000296676
ENSMUSG000000036943	Rab8b	RAB8B, member RAS oncogene family	0.613418385	3.09E-05	0.000299291
ENSMUSG000000023064	Sncg	synuclein, gamma	-1.14631925	3.10E-05	0.000299655
ENSMUSG000000063576	Klhdc3	kelch domain containing 3	0.614046417	3.11E-05	0.000300138
ENSMUSG000000030725	Lipt2	lipoyl(octanoyl) transferase 2 (putative)	0.963484468	3.11E-05	0.00030059
ENSMUSG000000020646	Mboat2	membrane bound O-acyltransferase domain containing 2	0.889208254	3.12E-05	0.000301691
ENSMUSG000000102171	RP23-117H6.2		-0.899365797	3.12E-05	0.000301691
ENSMUSG000000020922	Lsm12	LSM12 homolog (S. cerevisiae)	0.657584644	3.13E-05	0.000301954
ENSMUSG000000027827	Kcnab1	potassium voltage-gated channel, shaker-related subfamily, beta member 1	-0.748499421	3.14E-05	0.000302615
ENSMUSG000000007050	Lsm2	LSM2 homolog, U6 small nuclear RNA associated (S. cerevisiae)	0.755672015	3.15E-05	0.000303771
ENSMUSG000000040549	Ckap5	cytoskeleton associated protein 5	0.651704613	3.16E-05	0.000304247

ENSMUSG00000070570	Slc17a7	solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 7	-2.199023531	3.16E-05	0.000304346
ENSMUSG00000057766	Ankrd29	ankyrin repeat domain 29	-0.750852845	3.16E-05	0.000304645
ENSMUSG00000038146	Notch3	notch 3	-1.125761528	3.17E-05	0.000305315
ENSMUSG00000029283	Cdc7	cell division cycle 7 (<i>S. cerevisiae</i>)	1.740957794	3.19E-05	0.000307155
ENSMUSG00000021255	Esrb	estrogen related receptor, beta	-1.521936931	3.19E-05	0.000307347
ENSMUSG00000030189	Ybx3	Y box protein 3	0.602437457	3.20E-05	0.000308133
ENSMUSG00000029263	Pigg	phosphatidylinositol glycan anchor biosynthesis, class G	-0.610148583	3.21E-05	0.000308996
ENSMUSG00000073016	Uprt	uracil phosphoribosyltransferase (FUR1) homolog (<i>S. cerevisiae</i>)	0.790973856	3.25E-05	0.000312135
ENSMUSG00000036186	Fam69b	family with sequence similarity 69, member B	-1.613738013	3.25E-05	0.000312135
ENSMUSG00000028434	Epb4.114b	erythrocyte protein band 4.1-like 4b	-1.443541187	3.25E-05	0.000312596
ENSMUSG00000029623	Pdap1	PDGFA associated protein 1	0.661191338	3.26E-05	0.000312814
ENSMUSG00000033845	Mrp15	mitochondrial ribosomal protein L15	0.700770609	3.27E-05	0.000314452
ENSMUSG00000062906	Hdac10	histone deacetylase 10	-0.631347595	3.30E-05	0.000316754
ENSMUSG00000071547	Nt5dc2	5'-nucleotidase domain containing 2	0.880518586	3.32E-05	0.00031843
ENSMUSG00000055733	Nap1i3	nucleosome assembly protein 1-like 3	-1.137501562	3.32E-05	0.000318755
ENSMUSG00000041406	BC055324	cDNA sequence BC055324	1.422467509	3.32E-05	0.000318785
ENSMUSG00000044676	Zfp612	zinc finger protein 612	-2.499503674	3.34E-05	0.000319738
ENSMUSG00000050211	Pla2g4e	phospholipase A2, group IVE	-2.641363966	3.35E-05	0.000321132
ENSMUSG00000022280	Rnf19a	ring finger protein 19A	0.561439807	3.38E-05	0.000324117
ENSMUSG00000026821	Ralgds	ral guanine nucleotide dissociation stimulator	0.58325678	3.40E-05	0.000325417
ENSMUSG00000055560	Zfp459	zinc finger protein 459	-2.196714489	3.41E-05	0.000326696
ENSMUSG00000027257	Pacsin3	protein kinase C and casein kinase substrate in neurons 3	-1.504761624	3.42E-05	0.000326831
ENSMUSG00000000538	Tom1l2	target of myb1-like 2 (chicken)	-0.634412994	3.44E-05	0.000329061
ENSMUSG00000023999	Kif6	kinesin family member 6	-1.948435797	3.44E-05	0.000329249
ENSMUSG00000052962	Mrp135	mitochondrial ribosomal protein L35	0.702158259	3.46E-05	0.000331055
ENSMUSG00000014769	Psmb1	proteasome (prosome, macropain) subunit, beta type 1	0.596929325	3.46E-05	0.000331117
ENSMUSG00000025013	Tll2	tolloid-like 2	1.469268713	3.47E-05	0.000331117
ENSMUSG00000030662	Ipo5	importin 5	0.621089146	3.47E-05	0.000331125
ENSMUSG00000039652	Cpeb3	cytoplasmic polyadenylation element binding protein 3	-1.503988131	3.48E-05	0.000331761
ENSMUSG00000026398	Nr5a2	nuclear receptor subfamily 5, group A, member 2	0.992272183	3.48E-05	0.000332283
ENSMUSG00000040351	Ankib1	ankyrin repeat and IBR domain containing 1	0.598698641	3.48E-05	0.000332283
ENSMUSG00000029298	Gbp9	guanylate-binding protein 9	-0.63005742	3.50E-05	0.000334194
ENSMUSG00000051851	Cxx1c	CAAX box 1C	-1.049110221	3.51E-05	0.000334194
ENSMUSG00000029001	Fbxo44	F-box protein 44	-1.17246685	3.55E-05	0.000338242
ENSMUSG00000090213	Tmem189	transmembrane protein 189	0.634077064	3.56E-05	0.00033956
ENSMUSG00000015365	Mov10l1	Moloney leukemia virus 10-like 1	-1.640935505	3.57E-05	0.000339939
ENSMUSG00000027323	Rad51	RAD51 homolog	2.111845911	3.57E-05	0.000340083
ENSMUSG00000027709	Mccc1	methylcrotonyl-Coenzyme A carboxylase 1 (alpha)	-0.976614679	3.58E-05	0.00034042
ENSMUSG00000055782	Abcd2	ATP-binding cassette, sub-family D (ALD), member 2	-1.000572077	3.59E-05	0.00034112
ENSMUSG00000000276	Dgke	diacylglycerol kinase, epsilon	-0.576911748	3.62E-05	0.000344607
ENSMUSG00000020392	Cdkn2aipnl	CDKN2A interacting protein N-terminal like	0.648416178	3.63E-05	0.00034467
ENSMUSG00000062075	Lrnb2	lamin B2	0.855127211	3.63E-05	0.000344751
ENSMUSG00000073421	H2-Ab1	histocompatibility 2, class II antigen A, beta 1	-1.486563295	3.64E-05	0.000345368
ENSMUSG00000070509	Rgma	repulsive guidance molecule family member A	-1.252380603	3.65E-05	0.000346399
ENSMUSG00000026858	Fam73b	family with sequence similarity 73, member B	-0.91216351	3.65E-05	0.000346452
ENSMUSG00000028414	Tnnt2	troponin T2, cardiac	-2.307079158	3.66E-05	0.00034692
ENSMUSG00000018381	Abi3	ABI gene family, member 3	-1.007039082	3.66E-05	0.000347629
ENSMUSG00000002249	Tead3	TEA domain family member 3	-1.217532918	3.67E-05	0.00034781
ENSMUSG00000003949	Hlf	hepatic leukemia factor	-2.091055547	3.70E-05	0.000350591
ENSMUSG00000034353	Ramp1	receptor (calcitonin) activity modifying protein 1	-1.214617296	3.72E-05	0.000352403
ENSMUSG00000041261	Car8	carbonic anhydrase 8	-0.551673926	3.72E-05	0.000352478
ENSMUSG00000021610	Cipltm1	CLPTM1-like	0.609053872	3.73E-05	0.000353065
ENSMUSG00000033453	Adamts15	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 15	-1.076746781	3.74E-05	0.000354384
ENSMUSG00000005043	Sgsh	N-sulfoglucosamine sulfohydrolase (sulfamidase)	-0.670424894	3.75E-05	0.000354828
ENSMUSG00000078485	Plekhn1	pleckstrin homology domain containing, family N member 1	-0.874206139	3.75E-05	0.000354828
ENSMUSG00000054604	Cggbp1	CGG triplet repeat binding protein 1	0.611202556	3.75E-05	0.000354964
ENSMUSG00000071014	Ndufb6	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6	0.67110638	3.77E-05	0.000356426
ENSMUSG00000005267	Zfp287	zinc finger protein 287	-0.583184042	3.77E-05	0.000356854
ENSMUSG00000073982	Rhog	ras homolog gene family, member G	0.659435217	3.79E-05	0.000358032
ENSMUSG00000014453	Blk	B lymphoid kinase	-1.462000871	3.79E-05	0.000358215
ENSMUSG00000042672	Dcst1	DC-STAMP domain containing 1	1.638279176	3.81E-05	0.000360222
ENSMUSG00000027875	Hmgcs2	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2	-2.044163402	3.82E-05	0.000360995
ENSMUSG00000029687	Ezh2	enhancer of zeste homolog 2 (<i>Drosophila</i>)	1.193264074	3.84E-05	0.000362711
ENSMUSG00000036564	Ndrq4	N-myc downstream regulated gene 4	-2.366402495	3.84E-05	0.000362711
ENSMUSG00000043998	Mgat2	mannoside acetylglucosaminyltransferase 2	0.618693541	3.85E-05	0.000362883
ENSMUSG00000038172	Ttc39b	tetratricopeptide repeat domain 39B	0.621191281	3.85E-05	0.000363415
ENSMUSG00000010721	Lmbr1	limb region 1	-0.646932567	3.86E-05	0.000363415
ENSMUSG00000022292	Rtm2b	ribonucleotide reductase M2 B (TP53 inducible)	-0.611290407	3.86E-05	0.000363938
ENSMUSG00000010277	2610507B11Rik	RIKEN cDNA 2610507B11 gene	0.588913482	3.87E-05	0.000364508
ENSMUSG00000054641	Mmrn1	multimerin 1	-0.944014043	3.87E-05	0.000364608
ENSMUSG00000021485	Mxd3	Max dimerization protein 3	2.148216676	3.88E-05	0.000365205
ENSMUSG00000032925	Itgb1	integrin, beta-like 1	-1.319742169	3.89E-05	0.000365638
ENSMUSG00000032174	Icam5	intercellular adhesion molecule 5, telencephalin	-1.797887398	3.89E-05	0.000366346

ENSMUSG00000020415	Pttg1	pituitary tumor-transforming gene 1	-0.629786104	3.91E-05	0.000367311
ENSMUSG00000026546	C1ap45	cilia and flagella associated protein 45	1.332901223	3.91E-05	0.000367338
ENSMUSG00000028124	Gclm	glutamate-cysteine ligase, modifier subunit	0.615984162	3.91E-05	0.000367781
ENSMUSG00000006800	Sulf2	sulfatase 2	-0.955681577	3.92E-05	0.000367822
ENSMUSG00000021830	Txndc16	thioredoxin domain containing 16	-0.565082601	3.93E-05	0.000368775
ENSMUSG00000048787	Dcun1d3	DCN1, defective in cullin neddylation 1, domain containing 3 (S. cerevisiae)	0.611899209	3.94E-05	0.000369677
ENSMUSG00000035062	Zc4h2	zinc finger, C4H2 domain containing	0.788308854	3.96E-05	0.000371199
ENSMUSG00000002565	Scin	scinderin	-1.83476719	3.97E-05	0.000372036
ENSMUSG00000020464	Pnpt1	polyribonucleotide nucleotidyltransferase 1	0.662437597	3.97E-05	0.000372217
ENSMUSG00000035351	Nup37	nucleoporin 37	0.849741537	3.98E-05	0.000373511
ENSMUSG00000022841	Ap2m1	adaptor-related protein complex 2, mu 1 subunit	0.618735441	3.99E-05	0.000373948
ENSMUSG00000024308	Tapbp	TAP binding protein	-0.598418429	3.99E-05	0.00037408
ENSMUSG00000078921	Tgtp2	T cell specific GTPase 2	-0.805208718	4.00E-05	0.00037492
ENSMUSG00000090877	Hspa1b	heat shock protein 1B	-0.893167147	4.01E-05	0.000374964
ENSMUSG00000028843	Sh3bgrl3	SH3 domain binding glutamic acid-rich protein-like 3	0.796513902	4.03E-05	0.000377485
ENSMUSG00000030213	Atf7ip	activating transcription factor 7 interacting protein	-0.54196162	4.05E-05	0.000379004
ENSMUSG00000025364	Pa2g4	proliferation-associated 2G4	0.627207193	4.06E-05	0.000379625
ENSMUSG00000028729	Ebn1bp2	EBNA1 binding protein 2	0.62761853	4.09E-05	0.000382309
ENSMUSG00000030287	Itp2	inositol 1,4,5-triphosphate receptor 2	0.54902261	4.12E-05	0.000385341
ENSMUSG00000058756	Thra	thyroid hormone receptor alpha	-0.655545248	4.12E-05	0.000385341
ENSMUSG00000017776	Crk	v-crk sarcoma virus CT10 oncogene homolog (avian)	0.584810496	4.14E-05	0.000386365
ENSMUSG00000039065	Fam173b	family with sequence similarity 173, member B	-0.648705565	4.20E-05	0.000391822
ENSMUSG00000024759	Ati3	atlastin GTPase 3	0.599994913	4.21E-05	0.000393312
ENSMUSG00000090641	Zfp712	zinc finger protein 712	-0.675778953	4.25E-05	0.000396796
ENSMUSG00000086095	Gm15328	predicted gene 15328	-3.442247636	4.26E-05	0.000397633
ENSMUSG00000020687	Cdc27	cell division cycle 27	0.619445688	4.28E-05	0.000399053
ENSMUSG00000044534	Ackr2	atypical chemokine receptor 2	0.888298799	4.28E-05	0.00039943
ENSMUSG00000096954	Gdap10	ganglioside-induced differentiation-associated-protein 10	-0.696519931	4.29E-05	0.000400141
ENSMUSG00000039242	B3galnt2	UDP-GalNAc:betaGlcNAc beta 1,3-galactosaminyltransferase, polypeptide 2	-0.562466493	4.32E-05	0.000402227
ENSMUSG00000038530	Rgs4	regulator of G-protein signaling 4	-0.612207833	4.33E-05	0.000403636
ENSMUSG00000036560	Lqi4	leucine-rich repeat LGI family, member 4	-1.238747476	4.34E-05	0.000403842
ENSMUSG00000031538	Plat	plasminogen activator, tissue	1.588270362	4.34E-05	0.000403984
ENSMUSG00000021340	Gpld1	glycosylphosphatidylinositol specific phospholipase D1	-1.665478525	4.38E-05	0.000407499
ENSMUSG00000010122	Slc47a1	solute carrier family 47, member 1	-1.998328333	4.38E-05	0.000407499
ENSMUSG00000031622	Sin3b	transcriptional regulator, SIN3B (yeast)	0.589429946	4.38E-05	0.000407541
ENSMUSG00000028609	Magoh	mago-nashi homolog, proliferation-associated (Drosophila)	0.664449015	4.39E-05	0.000408065
ENSMUSG00000000325	Arvcf	armadillo repeat gene deleted in velo-cardio-facial syndrome	-0.927684441	4.39E-05	0.000408092
ENSMUSG000000009531	Grasp	GRP1 (general receptor for phosphoinositides 1)-associated scaffold protein	-0.729932575	4.40E-05	0.000408408
ENSMUSG00000097882	O610038B21Rik	RIKEN cDNA O610038B21 gene	-1.888511687	4.40E-05	0.000408408
ENSMUSG00000022722	Arl6	ADP-ribosylation factor-like 6	0.755444164	4.40E-05	0.000408492
ENSMUSG00000039230	Tbcd	tubulin-specific chaperone d	0.582905449	4.41E-05	0.000409312
ENSMUSG00000060992	Copz1	coatomer protein complex, subunit zeta 1	0.610231967	4.42E-05	0.000410181
ENSMUSG00000042272	Sestd1	SEC14 and spectrin domains 1	0.601221179	4.46E-05	0.000413555
ENSMUSG00000031881	Cdh16	cadherin 16	-1.927373324	4.46E-05	0.000413555
ENSMUSG00000022843	Cln2	chloride channel 2	-0.989530492	4.47E-05	0.000414673
ENSMUSG00000024006	Stk38	serine/threonine kinase 38	-0.584128112	4.48E-05	0.000415193
ENSMUSG00000026502	Desi2	desumoylating isopeptidase 2	0.599988773	4.50E-05	0.000416517
ENSMUSG00000051517	Arhgef39	Rho guanine nucleotide exchange factor (GEF) 39	1.577820024	4.50E-05	0.000416712
ENSMUSG00000021537	Cetn3	centrin 3	0.635629497	4.52E-05	0.000418401
ENSMUSG00000033460	Armxc1	armadillo repeat containing, X-linked 1	0.659971194	4.53E-05	0.000419292
ENSMUSG00000027714	Exosc9	exosome component 9	0.636293494	4.54E-05	0.000419712
ENSMUSG00000044352	Sowaha	sosondawah ankyrin repeat domain family member A	-3.397620265	4.54E-05	0.000419712
ENSMUSG00000057378	Ryr3	ryanodine receptor 3	-2.964643469	4.54E-05	0.000419748
ENSMUSG00000051107	Gm15440	predicted gene 15440	-2.166585219	4.55E-05	0.000420216
ENSMUSG00000067341	H2-Eb2	histocompatibility 2, class II antigen E beta2	-2.639799464	4.60E-05	0.000425061
ENSMUSG00000103898	RP24-562D16.4		-1.382311603	4.61E-05	0.000425238
ENSMUSG00000025203	Scd2	stearoyl-Coenzyme A desaturase 2	0.664812039	4.63E-05	0.000427192
ENSMUSG00000062232	Rapgef2	Rap guanine nucleotide exchange factor (GEF) 2	-0.632693384	4.63E-05	0.000427209
ENSMUSG00000020467	Efemp1	epidermal growth factor-containing fibulin-like extracellular matrix protein 1	-1.44630368	4.65E-05	0.000428596
ENSMUSG00000020716	Nf1	neurofibromatosis 1	0.574553971	4.67E-05	0.000430699
ENSMUSG00000047496	Rnf152	ring finger protein 152	-0.78052465	4.69E-05	0.000432032
ENSMUSG00000039069	Mtg2	mitochondrial ribosome associated GTPase 2	-0.688726463	4.70E-05	0.000433075
ENSMUSG00000101655	Z310040G24Rik	RIKEN cDNA Z310040G24 gene	-0.855861815	4.70E-05	0.000433097
ENSMUSG00000030660	Pik3c2a	phosphatidylinositol 3-kinase, C2 domain containing, alpha polypeptide	0.566318227	4.74E-05	0.000436645
ENSMUSG00000038047	Haus6	HAUS augmin-like complex, subunit 6	0.676286823	4.75E-05	0.000437191
ENSMUSG00000032803	Cdv3	carnitine deficiency-associated gene expressed in ventricle 3	0.610837353	4.76E-05	0.000438092
ENSMUSG00000070577	Gm572	predicted gene 572	-1.917975408	4.84E-05	0.000445484
ENSMUSG00000047507	Baiap3	BAI1-associated protein 3	-1.921305893	4.86E-05	0.000446614
ENSMUSG00000028218	Fam92a	family with sequence similarity 92, member A	0.663586492	4.87E-05	0.000447924
ENSMUSG00000075701	Vimp	VCP-interacting membrane protein	0.690962881	4.88E-05	0.000448069
ENSMUSG00000020176	Grb10	growth factor receptor bound protein 10	0.569319368	4.88E-05	0.000448525
ENSMUSG00000031226	Pbdc1	polysaccharide biosynthesis domain containing 1	0.690219432	4.89E-05	0.000448761
ENSMUSG00000026014	Raph1	Ras association (RalGDS/AF-6) and pleckstrin homology domains 1	0.617114228	4.89E-05	0.000449394

ENSMUSG00000030413	Pglyrp1	peptidoglycan recognition protein 1	-2.300994464	4.91E-05	0.000450406
ENSMUSG00000034158	Lrrc58	leucine rich repeat containing 58	0.581078712	4.93E-05	0.000452057
ENSMUSG00000071553	Cpa2	carboxypeptidase A2, pancreatic	2.941393323	4.94E-05	0.000452824
ENSMUSG00000030738	Eif3c	eukaryotic translation initiation factor 3, subunit C	0.583872552	4.94E-05	0.000453
ENSMUSG00000025132	Arhgdia	Rho GDP dissociation inhibitor (GDI) alpha	0.760504776	4.97E-05	0.000455479
ENSMUSG00000043719	Col6a6	collagen, type VI, alpha 6	-1.476855995	5.02E-05	0.000460107
ENSMUSG00000031585	Gtf2e2	general transcription factor II E, polypeptide 2 (beta subunit)	0.664065482	5.04E-05	0.000461579
ENSMUSG00000002319	Ipo4	importin 4	0.608875635	5.06E-05	0.000463049
ENSMUSG00000040945	Rcc2	regulator of chromosome condensation 2	0.616115427	5.06E-05	0.000463146
ENSMUSG00000043230	Fam124b	family with sequence similarity 124, member B	2.352918283	5.08E-05	0.000465052
ENSMUSG00000034312	Iqsec1	IQ motif and Sec7 domain 1	-0.594202984	5.10E-05	0.000466423
ENSMUSG00000102324	RP23-456B9.18		-0.633369439	5.10E-05	0.000466663
ENSMUSG00000033174	Mgl1	monoglyceride lipase	-0.698618956	5.12E-05	0.000468126
ENSMUSG00000020171	Yeats4	YEATS domain containing 4	0.669053786	5.14E-05	0.000469462
ENSMUSG00000046561	Arsj	arylsulfatase J	1.428129539	5.16E-05	0.000471045
ENSMUSG00000103183	RP23-118E21.11		-1.046756401	5.16E-05	0.000471045
ENSMUSG00000030519	Apba2	amyloid beta (A4) precursor protein-binding, family A, member 2	-1.75215217	5.27E-05	0.000481022
ENSMUSG00000048450	Msx1	msh homeobox 1	-0.625067284	5.27E-05	0.000481439
ENSMUSG00000047126	Cltc	clathrin, heavy polypeptide (Hc)	0.577433147	5.29E-05	0.000482379
ENSMUSG00000030806	Stx1b	syntaxin 1B	-1.497909356	5.31E-05	0.000484633
ENSMUSG00000040795	Iqcc	IQ motif containing C	-0.613930964	5.33E-05	0.000485648
ENSMUSG00000036825	Ssx2ip	synovial sarcoma, X breakpoint 2 interacting protein	0.738505178	5.35E-05	0.000487951
ENSMUSG00000020455	Trim11	tripartite motif-containing 11	-0.643549222	5.38E-05	0.00049008
ENSMUSG00000022114	Spry2	sprouty homolog 2 (Drosophila)	1.028688999	5.42E-05	0.000493958
ENSMUSG00000102642	RP23-68O7.2		-0.829537175	5.45E-05	0.000496387
ENSMUSG00000001794	Capns1	calpain, small subunit 1	0.5558006	5.45E-05	0.000496429
ENSMUSG00000096807	Hist1h2bm	histone cluster 1, H2bm	2.013385451	5.47E-05	0.000497785
ENSMUSG00000031197	Vbp1	von Hippel-Lindau binding protein 1	0.613619179	5.50E-05	0.000500347
ENSMUSG00000067203	H2-K2	histocompatibility 2, K region locus 2	-1.172253968	5.51E-05	0.000500851
ENSMUSG00000047090	Tmem198b	transmembrane protein 198b	0.602965085	5.52E-05	0.000501952
ENSMUSG00000065265	Gm23455	predicted gene, 23455	1.14809827	5.54E-05	0.000503705
ENSMUSG00000017009	Sdc4	syndecan 4	1.261016745	5.54E-05	0.000503807
ENSMUSG00000053024	Cntn2	contactin 2	-1.759085974	5.56E-05	0.000505268
ENSMUSG00000074622	Matf	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)	-0.744900329	5.58E-05	0.000507014
ENSMUSG00000009828	Ick	intestinal cell kinase	-0.592783076	5.61E-05	0.000509234
ENSMUSG00000020359	Phykpl	5-phosphohydroxy-L-lysine phospholase	-0.729482345	5.61E-05	0.000509234
ENSMUSG00000026475	Rgs16	regulator of G-protein signaling 16	0.852654546	5.64E-05	0.000511677
ENSMUSG00000022013	Dnajc15	DnaJ (Hsp40) homolog, subfamily C, member 15	0.745128268	5.65E-05	0.000512485
ENSMUSG00000031304	Il2rg	interleukin 2 receptor, gamma chain	0.626303797	5.66E-05	0.000512578
ENSMUSG00000037251	Pomk	protein-O-mannose kinase	-0.729974203	5.66E-05	0.000512578
ENSMUSG00000046034	Otulin	OTU deubiquitinase with linear linkage specificity	0.580379501	5.66E-05	0.000512882
ENSMUSG00000000581	C1d	C1D nuclear receptor co-repressor	0.603640143	5.73E-05	0.000519218
ENSMUSG00000026254	Eif4e2	eukaryotic translation initiation factor 4E member 2	0.581901804	5.77E-05	0.000522163
ENSMUSG00000042216	Sgsm1	small G protein signaling modulator 1	-1.041291438	5.78E-05	0.000522875
ENSMUSG00000046318	Ccbe1	collagen and calcium binding EGF domains 1	-1.382272999	5.79E-05	0.000524377
ENSMUSG00000029576	Radil	Ras association and DIL domains	-1.402826029	5.81E-05	0.000525876
ENSMUSG00000022285	Ywhaz	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	0.577160291	5.85E-05	0.000529417
ENSMUSG00000001380	Hars	histidyl-tRNA synthetase	0.614860072	5.86E-05	0.000529765
ENSMUSG00000032470	Mras	muscle and microspikes RAS	-0.651698838	5.89E-05	0.000532324
ENSMUSG00000020671	Rab10	RAB10, member RAS oncogene family	0.575954854	5.91E-05	0.000533517
ENSMUSG00000029234	Tmem165	transmembrane protein 165	0.595914626	5.97E-05	0.000538809
ENSMUSG00000022150	Dab2	disabled 2, mitogen-responsive phosphoprotein	0.582424606	6.01E-05	0.000542468
ENSMUSG00000030757	Zkscan2	zinc finger with KRAB and SCAN domains 2	-1.175915597	6.07E-05	0.000547625
ENSMUSG00000085208	Brip1os	BRCA1 interacting protein C-terminal helicase 1, opposite strand	0.670469554	6.08E-05	0.000548413
ENSMUSG00000085558	4930412C18Rik	RIKEN cDNA 4930412C18 gene	-1.801052078	6.10E-05	0.000549964
ENSMUSG00000097729	2310015A10Rik	RIKEN cDNA 2310015A10 gene	-0.739686003	6.10E-05	0.000550435
ENSMUSG00000047459	Dynlrb1	dynein light chain roadblock-type 1	0.609981038	6.11E-05	0.000550749
ENSMUSG00000026527	Rgs7	regulator of G protein signaling 7	-2.366787632	6.12E-05	0.000551259
ENSMUSG00000102555	RP23-474B13.2		-0.689526543	6.13E-05	0.000552157
ENSMUSG00000028932	Nacc2	nucleus accumbens associated 2, BEN and BTB (POZ) domain containing	-0.679996137	6.14E-05	0.000552929
ENSMUSG00000032839	Tpc1	transient receptor potential cation channel, subfamily C, member 1	-0.750615183	6.20E-05	0.00055777
ENSMUSG00000016382	Pls3	plastin 3 (T-isoform)	0.584650843	6.22E-05	0.000559651
ENSMUSG00000023094	Msrb2	methionine sulfoxide reductase B2	-0.705157528	6.22E-05	0.000559651
ENSMUSG00000025215	Tlx1	T cell leukemia, homeobox 1	-1.708254682	6.22E-05	0.000559651
ENSMUSG00000084941	Gm11944	predicted gene 11944	-1.323544879	6.24E-05	0.00056085
ENSMUSG00000030980	Knop1	lysine rich nucleolar protein 1	0.601128637	6.24E-05	0.000561017
ENSMUSG00000045312	Lhfp2	lipoma HMGIC fusion partner-like 2	0.696219911	6.25E-05	0.000561799
ENSMUSG00000066306	Numa1	nuclear mitotic apparatus protein 1	-0.579471571	6.25E-05	0.000561799
ENSMUSG00000062209	Erb4	v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)	-1.864633228	6.26E-05	0.000562276
ENSMUSG00000101972	Hist1h3i	histone cluster 1, H3i	1.643911088	6.27E-05	0.000563107
ENSMUSG00000045983	Eif4g1	eukaryotic translation initiation factor 4, gamma 1	0.564899305	6.29E-05	0.000564344
ENSMUSG00000029366	Dck	deoxycytidine kinase	1.214244376	6.30E-05	0.00056488
ENSMUSG00000071646	Mta2	metastasis-associated gene family, member 2	0.569005181	6.35E-05	0.000569784

ENSMUSG00000025262	Fam120c	family with sequence similarity 120, member C	-0.585854781	6.41E-05	0.000574992
ENSMUSG00000073700	Klhl21	kelch-like 21	-0.7608839	6.42E-05	0.000575213
ENSMUSG00000038510	Rpf2	ribosome production factor 2 homolog (S. cerevisiae)	0.822147363	6.42E-05	0.000575593
ENSMUSG00000020333	Acs16	acyl-CoA synthetase long-chain family member 6	-2.717265899	6.44E-05	0.000576694
ENSMUSG00000024691	Fam111a	family with sequence similarity 111, member A	1.337791652	6.45E-05	0.000577943
ENSMUSG00000043323	Fbrs1	fibrosin-like 1	-0.833975905	6.48E-05	0.000579596
ENSMUSG00000047037	Nipa1	non imprinted in Prader-Willi/Angelman syndrome 1 homolog (human)	0.744595798	6.51E-05	0.000582353
ENSMUSG00000064141	Zfp69	zinc finger protein 69	0.685784552	6.51E-05	0.000582353
ENSMUSG00000079481	Nhsl2	NHS-like 2	0.583733476	6.51E-05	0.000582353
ENSMUSG00000028048	Gba	glucosidase, beta, acid	0.583388214	6.52E-05	0.000583222
ENSMUSG00000028919	Arhgef19	Rho guanine nucleotide exchange factor (GEF) 19	-2.133182744	6.53E-05	0.000583973
ENSMUSG00000023411	Nfatc4	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 4	-0.815925229	6.57E-05	0.000586727
ENSMUSG00000018470	Kcnab3	potassium voltage-gated channel, shaker-related subfamily, beta member 3	-1.366608604	6.58E-05	0.000587227
ENSMUSG00000037355	Uvssa	UV stimulated scaffold protein A	-0.666251325	6.60E-05	0.000588886
ENSMUSG00000045761	Fam179a	family with sequence similarity 179, member A	-2.652559555	6.60E-05	0.000589023
ENSMUSG00000053226	Dand5	DAN domain family, member 5	-1.241800005	6.61E-05	0.000589521
ENSMUSG00000026687	Aldh9a1	aldehyde dehydrogenase 9, subfamily A1	-0.620121183	6.65E-05	0.00059361
ENSMUSG00000027282	Mtch2	mitochondrial carrier homolog 2 (C. elegans)	0.593110527	6.66E-05	0.000594067
ENSMUSG00000021917	Spc1	signal peptidase complex subunit 1 homolog (S. cerevisiae)	0.610849114	6.68E-05	0.000595322
ENSMUSG00000027935	Rab13	RAB13, member RAS oncogene family	0.724357591	6.72E-05	0.000599172
ENSMUSG00000089857	Zfp882	zinc finger protein 882	-0.717687875	6.74E-05	0.000600246
ENSMUSG00000017734	Dbndd2	dysbindin (dystrobrevin binding protein 1) domain containing 2	-0.653875041	6.75E-05	0.000601042
ENSMUSG00000042453	Reln	reelin	-0.957078198	6.75E-05	0.000601042
ENSMUSG00000031380	Figf	c-fos induced growth factor	-1.634500001	6.75E-05	0.000601042
ENSMUSG00000097252	Gm6634	predicted gene 6634	1.747271591	6.76E-05	0.000601218
ENSMUSG00000059248	9-Sep	septin 9	0.573842437	6.79E-05	0.000603537
ENSMUSG00000071226	Cecr2	cat eye syndrome chromosome region, candidate 2	-0.573653531	6.79E-05	0.000603537
ENSMUSG00000104039	RP23-323H18.1		1.299283496	6.79E-05	0.000603864
ENSMUSG00000027018	Hat1	histone aminotransferase 1	0.835307425	6.80E-05	0.000604347
ENSMUSG00000043384	Gprasp1	G protein-coupled receptor associated sorting protein 1	-0.587055785	6.81E-05	0.000605301
ENSMUSG00000028121	Bcar3	breast cancer anti-estrogen resistance 3	0.578591869	6.86E-05	0.00060881
ENSMUSG00000049751	Rpl36al	ribosomal protein L36A-like	0.766019467	6.88E-05	0.000611075
ENSMUSG00000037926	Ssh2	slingshot homolog 2 (Drosophila)	-0.564347499	6.91E-05	0.000612869
ENSMUSG00000074491	Clec4g	C-type lectin domain family 4, member g	-1.426813216	6.91E-05	0.00061329
ENSMUSG00000049598	Vsig8	V-set and immunoglobulin domain containing 8	2.61064554	6.94E-05	0.000615154
ENSMUSG00000032041	Tirap	toll-interleukin 1 receptor (TIR) domain-containing adaptor protein	0.635807056	6.95E-05	0.000616332
ENSMUSG00000031913	Vps4a	vacuolar protein sorting 4a (yeast)	0.578753016	6.96E-05	0.000616855
ENSMUSG00000026377	Nifk	nucleolar protein interacting with the FHA domain of MKI67	0.645050172	7.00E-05	0.000620513
ENSMUSG00000039474	Wfs1	Wolfram syndrome 1 homolog (human)	-0.676582007	7.03E-05	0.000622474
ENSMUSG00000102742	PCDHGB6	protocadherin gamma-A11	-0.702843844	7.04E-05	0.000623099
ENSMUSG00000031539	Ap3m2	adaptor-related protein complex 3, mu 2 subunit	-0.606873274	7.06E-05	0.000624731
ENSMUSG00000029499	Pxmp2	peroxisomal membrane protein 2	-1.035689125	7.06E-05	0.000624731
ENSMUSG00000040433	Zbtb38	zinc finger and BTB domain containing 38	0.510106393	7.11E-05	0.000628843
ENSMUSG00000001924	Uba1	ubiquitin-like modifier activating enzyme 1	0.563492873	7.13E-05	0.000630835
ENSMUSG000000066258	Trim12a	tripartite motif-containing 12A	-0.578496623	7.15E-05	0.000632384
ENSMUSG00000020246	Hcf2	host cell factor C2	0.628989178	7.18E-05	0.000634996
ENSMUSG00000070644	Etnk2	ethanolamine kinase 2	-1.186836736	7.19E-05	0.00063514
ENSMUSG00000040749	Siah1b	seven in absentia 1B	0.930171565	7.22E-05	0.000638078
ENSMUSG00000087632	Gm6058	predicted gene 6058	-0.887512696	7.24E-05	0.000639017
ENSMUSG00000053477	Tcf4	transcription factor 4	0.539358572	7.25E-05	0.00064023
ENSMUSG00000048234	Rnf149	ring finger protein 149	0.750625975	7.27E-05	0.000641316
ENSMUSG00000029084	Cd38	CD38 antigen	0.659230381	7.27E-05	0.000641316
ENSMUSG00000006498	Ptbp1	polypyrimidine tract binding protein 1	0.570263042	7.27E-05	0.000641316
ENSMUSG00000020629	Adi1	acireductone dioxygenase 1	-0.768631678	7.27E-05	0.000641316
ENSMUSG00000038613	Tssc1	tumor suppressing subtransferable candidate 1	0.688305488	7.30E-05	0.00064352
ENSMUSG00000043419	Chd3os	chromodomain helicase DNA binding protein 3, opposite strand	-0.876078782	7.31E-05	0.000644335
ENSMUSG00000046541	Zfp526	zinc finger protein 526	-0.630096792	7.32E-05	0.000644339
ENSMUSG000000051212	Gpr183	G protein-coupled receptor 183	-1.132208454	7.32E-05	0.000644775
ENSMUSG00000031328	Flna	filamin, alpha	0.556711201	7.35E-05	0.000647347
ENSMUSG00000034424	Gcsh	glycine cleavage system protein H (aminomethyl carrier)	0.719253176	7.36E-05	0.000647935
ENSMUSG00000006494	Pdk1	pyruvate dehydrogenase kinase, isoenzyme 1	0.556833913	7.39E-05	0.000649752
ENSMUSG00000029032	Arhgef16	Rho guanine nucleotide exchange factor (GEF) 16	-1.547370836	7.39E-05	0.000649777
ENSMUSG00000026288	Inpp5d	inositol polyphosphate-5-phosphatase D	0.549444279	7.41E-05	0.000651636
ENSMUSG00000034957	Cebpa	CCAAT/enhancer binding protein (C/EBP), alpha	-1.086832017	7.44E-05	0.000653784
ENSMUSG00000040681	Hmgn1	high mobility group nucleosomal binding domain 1	0.658017536	7.48E-05	0.000657588
ENSMUSG00000035158	Mitf	microphthalmia-associated transcription factor	-0.910484098	7.49E-05	0.000658072
ENSMUSG00000031144	Syp	synaptophysin	-0.988496753	7.49E-05	0.000658072
ENSMUSG00000022422	Dsccl	defective in sister chromatid cohesion 1 homolog (S. cerevisiae)	2.142449228	7.54E-05	0.000661698
ENSMUSG00000086298	Gm11716	predicted gene 11716	1.193284282	7.56E-05	0.00066353
ENSMUSG00000039096	Rsad1	radical S-adenosyl methionine domain containing 1	-0.768250221	7.57E-05	0.000663753
ENSMUSG00000102673	RP23-303M15.3		-2.835337924	7.57E-05	0.00066379
ENSMUSG00000023945	Slc5a7	solute carrier family 5 (choline transporter), member 7	2.380012804	7.61E-05	0.000666702
ENSMUSG00000011254	Thg1l	tRNA-histidine guanylyltransferase 1-like (S. cerevisiae)	0.925450719	7.61E-05	0.000666702

ENSMUSG00000037148	Arhgap10	Rho GTPase activating protein 10	-0.613584465	7.61E-05	0.000666795
ENSMUSG00000024359	Hspa9	heat shock protein 9	0.586463236	7.63E-05	0.000668363
ENSMUSG00000029060	Mib2	mindbomb homolog 2 (Drosophila)	-1.016016371	7.65E-05	0.000670259
ENSMUSG00000039307	Hexdc	hexosaminidase (glycosyl hydrolase family 20, catalytic domain) containing	-0.73632045	7.66E-05	0.000670437
ENSMUSG00000043207	Zmpste24	zinc metalloproteinase, STE24	0.591642358	7.70E-05	0.000674217
ENSMUSG00000035189	Ano4	anoctamin 4	-2.044504828	7.72E-05	0.000675209
ENSMUSG00000001016	Ilf2	interleukin enhancer binding factor 2	0.619410416	7.73E-05	0.000676027
ENSMUSG00000041859	Mcm3	minichromosome maintenance deficient 3 (S. cerevisiae)	1.006065757	7.73E-05	0.000676087
ENSMUSG00000039699	Batf2	basic leucine zipper transcription factor, ATF-like 2	-0.903576037	7.74E-05	0.000676314
ENSMUSG00000046159	Chrm3	cholinergic receptor, muscarinic 3, cardiac	-0.904844878	7.75E-05	0.000677306
ENSMUSG00000052544	St6galnac3	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 3	-0.767241377	7.76E-05	0.000677832
ENSMUSG00000054640	Slc8a1	solute carrier family 8 (sodium/calcium exchanger), member 1	-0.940000978	7.76E-05	0.000677965
ENSMUSG00000025171	Ubt1	ubiquitin domain containing 1	1.341443943	7.78E-05	0.000679268
ENSMUSG00000024136	Dnase1l2	deoxyribonuclease 1-like 2	-1.065882746	7.78E-05	0.000679268
ENSMUSG00000000386	Mx1	MX dynamin-like GTPase 1	1.368796656	7.79E-05	0.000679675
ENSMUSG00000004127	Trmt10a	tRNA methyltransferase 10A	0.767454811	7.81E-05	0.000680676
ENSMUSG000000041133	Smc1a	structural maintenance of chromosomes 1A	0.580671714	7.81E-05	0.000681248
ENSMUSG000000088252	Shord13	small nucleolar RNA, C/D box 13	0.795165585	7.84E-05	0.000683585
ENSMUSG00000052214	Opa3	optic atrophy 3	0.618087296	7.97E-05	0.000694043
ENSMUSG00000030156	Cd69	CD69 antigen	-1.019172759	7.97E-05	0.000694043
ENSMUSG00000030471	Zdhc13	zinc finger, DHHC domain containing 13	0.724717172	7.97E-05	0.000694087
ENSMUSG00000028530	Jak1	Janus kinase 1	0.561387927	7.98E-05	0.000694497
ENSMUSG00000051235	Gen1	Gen homolog 1, endonuclease (Drosophila)	2.423836915	8.01E-05	0.000697207
ENSMUSG000000086863	Gm15543	predicted gene 15543	-1.747959795	8.01E-05	0.000697207
ENSMUSG00000046442	Ppm1e	protein phosphatase 1E (PP2C domain containing)	-0.654123173	8.04E-05	0.000699437
ENSMUSG00000026523	Wdr64	WD repeat domain 64	-2.559830662	8.07E-05	0.000701271
ENSMUSG00000022325	Pop1	processing of precursor 1, ribonuclease P/MRP family, (S. cerevisiae)	0.726906871	8.08E-05	0.000702018
ENSMUSG000000041147	Brca2	breast cancer 2	1.105861645	8.09E-05	0.000703045
ENSMUSG000000043531	Sorcs1	VPS10 domain receptor protein SORCS 1	1.071864858	8.10E-05	0.000703164
ENSMUSG00000102864	RP24-297J20.6		-0.98504586	8.13E-05	0.000705695
ENSMUSG00000008206	Cers4	ceramide synthase 4	-0.597209747	8.15E-05	0.000707256
ENSMUSG00000051506	Wdfy4	WD repeat and FYVE domain containing 4	-0.926470791	8.15E-05	0.000707256
ENSMUSG000000087381	Gm16008	predicted gene 16008	-1.1107519	8.15E-05	0.000707256
ENSMUSG00000000751	Rpa1	replication protein A1	0.618869442	8.17E-05	0.000708258
ENSMUSG00000039114	Nrn1	neuritin 1	-1.499857981	8.18E-05	0.000709087
ENSMUSG000000014077	Chp1	calcineurin-like EF hand protein 1	0.570583424	8.18E-05	0.000709107
ENSMUSG00000007872	Id3	inhibitor of DNA binding 3	-1.012686622	8.20E-05	0.000710703
ENSMUSG00000005779	Psmb4	proteasome (prosome, macropain) subunit, beta type 4	0.559344051	8.24E-05	0.000713774
ENSMUSG00000033564	Dph5	DPH5 homolog (S. cerevisiae)	0.718964075	8.30E-05	0.000719106
ENSMUSG00000001288	Rarg	retinoic acid receptor, gamma	-0.82798335	8.31E-05	0.000719503
ENSMUSG00000032562	Gnai2	guanine nucleotide binding protein (G protein), alpha inhibiting 2	0.543388657	8.34E-05	0.000721472
ENSMUSG00000070808	Gltscr1	glioma tumor suppressor candidate region gene 1	-0.878853102	8.38E-05	0.000724975
ENSMUSG00000025577	Cbx2	chromobox 2	-0.591999653	8.42E-05	0.000727932
ENSMUSG00000021646	Mccc2	methylcrotonoyl-Coenzyme A carboxylase 2 (beta)	-0.699829474	8.46E-05	0.000731249
ENSMUSG00000040387	Klhl32	kelch-like 32	-2.344286355	8.47E-05	0.000732261
ENSMUSG00000028990	Lzic	leucine zipper and CTNBP1 domain containing	0.62639905	8.49E-05	0.000733366
ENSMUSG00000007653	Gabrb2	gamma-aminobutyric acid (GABA) A receptor, subunit beta 2	3.075536594	8.57E-05	0.00074
ENSMUSG00000036188	Ankmy2	ankyrin repeat and MYND domain containing 2	-0.580073621	8.57E-05	0.00074
ENSMUSG00000051278	Zgrf1	zinc finger, GRF-type containing 1	1.102585153	8.60E-05	0.000742036
ENSMUSG00000042289	Hsd3b7	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7	-0.598710129	8.63E-05	0.000744371
ENSMUSG00000047502	Mroh7	maestro heat-like repeat family member 7	-1.833238659	8.67E-05	0.000748266
ENSMUSG00000039187	Fanci	Fanconi anemia, complementation group I	2.15177697	8.75E-05	0.000754527
ENSMUSG00000030031	Kbtbd8	kelch repeat and BTB (POZ) domain containing 8	-0.691513759	8.76E-05	0.000755339
ENSMUSG00000031767	Nudt7	nudix (nucleoside diphosphate linked moiety X)-type motif 7	-0.705729197	8.76E-05	0.000755339
ENSMUSG00000062590	Armc9	armadillo repeat containing 9	-0.733349821	8.77E-05	0.000756006
ENSMUSG00000018547	Pip4k2b	phosphatidylinositol-5-phosphate 4-kinase, type II, beta	0.581155499	8.79E-05	0.00075682
ENSMUSG00000039519	Cyp7b1	cytochrome P450, family 7, subfamily b, polypeptide 1	-0.846314617	8.81E-05	0.000758259
ENSMUSG00000003418	St8sia6	ST8 alpha-N-acetyl-neuraminidase alpha-2,8-sialyltransferase 6	-0.589815576	8.81E-05	0.000758629
ENSMUSG00000025938	Slico5a1	solute carrier organic anion transporter family, member 5A1	-1.111710758	8.82E-05	0.000759005
ENSMUSG00000038964	Trim17	tripartite motif-containing 17	-2.855861422	8.86E-05	0.000761916
ENSMUSG00000016520	Lnx2	ligand of numb-protein X 2	-0.585310588	8.86E-05	0.000762143
ENSMUSG00000028741	Mrt04	MRT4, mRNA turnover 4, homolog (S. cerevisiae)	0.709813064	8.89E-05	0.000763949
ENSMUSG00000043085	Tmem82	transmembrane protein 82	-2.264745302	8.89E-05	0.000763949
ENSMUSG00000029390	Tmed2	transmembrane emp24 domain trafficking protein 2	0.62554642	8.89E-05	0.000763997
ENSMUSG00000040322	Slc25a24	solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 24	0.572608141	8.90E-05	0.000764349
ENSMUSG00000039988	Ankrd13c	ankyrin repeat domain 13c	0.577277999	8.92E-05	0.000765589
ENSMUSG00000048832	Vps37c	vacuolar protein sorting 37C (yeast)	0.712038159	8.95E-05	0.000768395
ENSMUSG00000031620	1700007B14Rik	RIKEN cDNA 1700007B14 gene	-5.390212411	8.97E-05	0.00076977
ENSMUSG00000037572	Wdhd1	WD repeat and HMG-box DNA binding protein 1	0.949454603	8.98E-05	0.000770598
ENSMUSG00000022772	Senp5	SUMO/sentrin specific peptidase 5	0.60280221	9.01E-05	0.000772982
ENSMUSG00000008892	Vdac3	voltage-dependent anion channel 3	0.65524271	9.11E-05	0.000780844
ENSMUSG00000078143	Gm17344	predicted gene, 17344	-2.943924241	9.17E-05	0.000786332
ENSMUSG00000028527	Ak4	adenylate kinase 4	0.797718679	9.18E-05	0.000786884

ENSMUSG0000044813	Shb	src homology 2 domain-containing transforming protein B	0.635561209	9.21E-05	0.000789118
ENSMUSG0000048070	Pirt	phosphoinositide-interacting regulator of transient receptor potential channels	-2.46873932	9.23E-05	0.000790334
ENSMUSG0000038520	Tbc1d17	TBC1 domain family, member 17	-0.87871957	9.26E-05	0.000792539
ENSMUSG0000021905	Dph3	diphthamine biosynthesis 3	0.57059725	9.30E-05	0.000795705
ENSMUSG00000008136	Fhl2	four and a half LIM domains 2	-1.362874479	9.30E-05	0.000796002
ENSMUSG00000085657	Gm15984	predicted gene 15984	-1.01787703	9.31E-05	0.000796231
ENSMUSG0000020021	Fgd6	FYVE, RhoGEF and PH domain containing 6	0.572271229	9.34E-05	0.000798312
ENSMUSG00000047085	Lrrc4b	leucine rich repeat containing 4B	-2.400628973	9.34E-05	0.000798312
ENSMUSG0000038587	Akap12	A kinase (PRKA) anchor protein (gravin) 12	1.697498766	9.43E-05	0.000805632
ENSMUSG00000021094	Dhrs7	dehydrogenase/reductase (SDR family) member 7	-0.592971452	9.43E-05	0.000805652
ENSMUSG0000042705	Commd10	COMM domain containing 10	0.634709773	9.46E-05	0.000807944
ENSMUSG00000033152	Podxl2	podocalyxin-like 2	-1.449244501	9.47E-05	0.000808244
ENSMUSG00000021707	Dhfr	dihydrofolate reductase	1.535813488	9.48E-05	0.00080926
ENSMUSG0000006542	Prkag3	protein kinase, AMP-activated, gamma 3 non-catalytic subunit	-2.073930289	9.48E-05	0.00080926
ENSMUSG00000003484	Cyp4f18	cytochrome P450, family 4, subfamily f, polypeptide 18	-1.776888969	9.52E-05	0.000812416
ENSMUSG0000029661	Col1a2	collagen, type I, alpha 2	0.816302908	9.54E-05	0.000813275
ENSMUSG00000038695	Josd2	Josephin domain containing 2	-1.062602001	9.61E-05	0.000818897
ENSMUSG00000031939	Taf1d	TATA box binding protein (Tbp)-associated factor, RNA polymerase I, D	0.608857723	9.64E-05	0.000821802
ENSMUSG00000022781	Pak2	p21 protein (Cdc42/Rac)-activated kinase 2	0.567263508	9.66E-05	0.000822825
ENSMUSG00000050821	Fam131a	family with sequence similarity 131, member A	0.596482902	9.68E-05	0.000824573
ENSMUSG00000031021	Tmem9b	TMEM9 domain family, member B	0.570011575	9.71E-05	0.000826904
ENSMUSG00000030789	Itgax	integrin alpha X	1.37729211	9.74E-05	0.00082926
ENSMUSG00000031065	Cdk16	cyclin-dependent kinase 16	0.562751543	9.78E-05	0.000832459
ENSMUSG00000060487	Samd5	sterile alpha motif domain containing 5	-0.680089332	9.81E-05	0.000834167
ENSMUSG00000028043	Col3a1	collagen, type III, alpha 1	0.920366735	9.84E-05	0.000836424
ENSMUSG00000050382	Kif7	kinesin family member 7	-1.06629456	9.85E-05	0.000837662
ENSMUSG00000032577	Mapkapk3	mitogen-activated protein kinase-activated protein kinase 3	-0.750147378	9.88E-05	0.000839947
ENSMUSG00000028957	Per3	period circadian clock 3	-1.471851282	9.90E-05	0.000841306
ENSMUSG00000045671	Spred2	sprouty-related, EVH1 domain containing 2	-0.573894477	9.91E-05	0.00084214
ENSMUSG00000039270	Megf9	multiple EGF-like-domains 9	-0.690886579	9.92E-05	0.000842699
ENSMUSG00000002733	Plekha3	pleckstrin homology domain-containing, family A (phosphoinositide binding specific) member 3	0.530445641	9.97E-05	0.000846278
ENSMUSG00000048490	Nrip1	nuclear receptor interacting protein 1	0.561553552	0.000100044	0.000849031
ENSMUSG00000087366	Junos	jun proto-oncogene, opposite strand	-0.930430383	0.000100795	0.0008515
ENSMUSG00000022885	Stgal1	beta galactoside alpha 2,6 sialyltransferase 1	0.519047499	0.000100895	0.000855734
ENSMUSG00000026499	Acbd3	acyl-Coenzyme A binding domain containing 3	0.576340085	0.000101487	0.000860237
ENSMUSG00000041992	Rapgef5	Rap guanine nucleotide exchange factor (GEF) 5	0.524517457	0.000101481	0.000860237
ENSMUSG00000038594	Cep85l	centrosomal protein 85-like	-0.576502912	0.000102603	0.000869439
ENSMUSG00000002332	Dhrs1	dehydrogenase/reductase (SDR family) member 1	0.607215431	0.000102766	0.000870556
ENSMUSG00000029413	Naaa	N-acyl ethanolamine acid amidase	-0.819008591	0.000102831	0.000870581
ENSMUSG00000003378	Grik5	glutamate receptor, ionotropic, kainate 5 (gamma 2)	-1.032585474	0.000102824	0.000870581
ENSMUSG00000018068	Ints2	integrator complex subunit 2	0.657145984	0.000103159	0.00087283
ENSMUSG00000018398		8-Sep septin 8	0.561412857	0.000103158	0.00087283
ENSMUSG00000026817	Ak1	adenylate kinase 1	-0.776360235	0.000103355	0.000874231
ENSMUSG00000097644	Gm26862	predicted gene, 26862	-2.229571563	0.000103392	0.000874281
ENSMUSG00000044390	Tigd3	tigger transposable element derived 3	-0.939401488	0.000103764	0.000877157
ENSMUSG00000021998	Lcp1	lymphocyte cytosolic protein 1	0.605344532	0.00010397	0.000878642
ENSMUSG00000021892	Sh3bp5	SH3-domain binding protein 5 (BTK-associated)	0.539937817	0.000104531	0.000883116
ENSMUSG00000005481	Ddx39	DEAD (Asp-Glu-Ala-Asp) box polypeptide 39	0.604541033	0.000104575	0.000883224
ENSMUSG00000027091	Zc3h15	zinc finger CCHC-type containing 15	0.610549719	0.000104876	0.000885497
ENSMUSG00000004568	Arhgef18	rho/rac guanine nucleotide exchange factor (GEF) 18	-0.581110382	0.000104975	0.000885987
ENSMUSG00000082318	Gm14162	predicted gene 14162	-1.88641453	0.000104997	0.000885987
ENSMUSG00000028657	Frm4a	FERM domain containing 4A	0.595415907	0.000105078	0.000886408
ENSMUSG00000019373	Cops3	COP9 (constitutive photomorphogenic) homolog, subunit 3 (Arabidopsis thaliana)	0.579801596	0.000105598	0.000890524
ENSMUSG00000025993	Sic40a1	solute carrier family 40 (iron-regulated transporter), member 1	0.80560789	0.000105984	0.000893514
ENSMUSG00000001946	Esam	endothelial cell-specific adhesion molecule	0.512789502	0.000106573	0.000898205
ENSMUSG00000024769	Cdc42bpg	CDC42 binding protein kinase gamma (DMPK-like)	-0.998031182	0.00010689	0.000900611
ENSMUSG00000032300	1700017B05Rik	RIKEN cDNA 1700017B05 gene	1.152752933	0.000107128	0.000902346
ENSMUSG00000103332	Pcdhga2	protocadherin gamma subfamily A, 2	-1.194174736	0.000107785	0.000907606
ENSMUSG00000029518	Rab35	RAB35, member RAS oncogene family	0.553871412	0.000107896	0.000908267
ENSMUSG00000097579	Gm26799	predicted gene, 26799	1.594402785	0.000108299	0.000911387
ENSMUSG00000081126	Gm15784	predicted gene 15784	3.570087063	0.000108422	0.000912151
ENSMUSG000000025723	Nmb	neuromedin B	1.140780081	0.000108664	0.000913913
ENSMUSG00000037577	Ephx3	epoxide hydrolase 3	-0.716339722	0.000108705	0.000913985
ENSMUSG00000010021	Kif19a	kinesin family member 19A	-2.420934463	0.000109006	0.000916244
ENSMUSG00000060594	Layn	layilin	0.626464577	0.000109125	0.000916966
ENSMUSG00000022911	Arl13b	ADP-ribosylation factor-like 13B	0.558616244	0.000109245	0.000917707
ENSMUSG00000019848	Popdc3	popeye domain containing 3	-1.728692108	0.000109588	0.000920311
ENSMUSG00000050288	Fzd2	frizzled homolog 2 (Drosophila)	-1.438708831	0.000109804	0.000921852
ENSMUSG00000084399	Gm15666	predicted gene 15666	-0.925553508	0.000109865	0.000922085
ENSMUSG00000062510	Nsl1	NLS1, MIND kinetochore complex component, homolog (S. cerevisiae)	1.895042674	0.000110337	0.000925771
ENSMUSG00000032332	Col12a1	collagen, type XII, alpha 1	2.670478037	0.000110514	0.000926976
ENSMUSG00000022479	Vdr	vitamin D receptor	2.626046728	0.000110665	0.000927969
ENSMUSG00000043131	Mob1a	MOB kinase activator 1A	0.567671139	0.000111106	0.000931002

ENSMUSG00000053192	Mlt11	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 11	0.854285356	0.00011267	0.000932461
ENSMUSG00000028475	5430416O09Rik	RIKEN cDNA 5430416O09 gene	-0.713499101	0.000111354	0.000932916
ENSMUSG00000097970	Gm27028	predicted gene, 27028	-1.123915901	0.000112036	0.000938348
ENSMUSG00000063317	Usp31	ubiquitin specific peptidase 31	0.565076451	0.00011216	0.000939108
ENSMUSG00000062960	Kdr	kinase insert domain protein receptor	-0.532494517	0.000112273	0.000939775
ENSMUSG00000026373	Rnf41	ring finger protein 41	0.54782143	0.000112364	0.000940253
ENSMUSG00000063873	Slc24a3	solute carrier family 24 (sodium/potassium/calcium exchanger), member 3	-1.096906988	0.000112566	0.000941667
ENSMUSG00000003402	Prkcsb	protein kinase C substrate 80K-H	0.574967997	0.000112826	0.00094337
ENSMUSG00000030486	Zfp108	zinc finger protein 108	-1.040493038	0.000112837	0.00094337
ENSMUSG00000064289	Tank	TRAF family member-associated NF-kappa B activator	0.603197586	0.000112928	0.000943855
ENSMUSG00000038178	Slc43a2	solute carrier family 43, member 2	0.590192146	0.000113326	0.000946349
ENSMUSG00000048486	Fim2	fat storage-inducing transmembrane protein 2	-0.60689447	0.000114087	0.000952969
ENSMUSG00000018770	Atp5g3	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit C3 (subunit 9)	0.55594972	0.000115007	0.000960371
ENSMUSG00000046432	Ngfrap1	nerve growth factor receptor (TNFRSF16) associated protein 1	0.727707278	0.00011505	0.000960448
ENSMUSG00000037824	Tspan14	tetraspanin 14	0.551312022	0.00011535	0.000962666
ENSMUSG00000020310	Madcam1	mucosal vascular addressin cell adhesion molecule 1	5.095793222	0.000115849	0.00096654
ENSMUSG00000046947	Adck2	aaRF domain containing kinase 2	-0.663224542	0.000116128	0.000968584
ENSMUSG00000042647	Acad12	acyl-Coenzyme A dehydrogenase family, member 12	-0.764478653	0.000116323	0.000969924
ENSMUSG00000018882	Mrp145	mitochondrial ribosomal protein L45	0.639410957	0.000116874	0.000974223
ENSMUSG00000032788	Pdxk	pyridoxal (pyridoxine, vitamin B6) kinase	-0.849147394	0.000117346	0.000977787
ENSMUSG00000027506	Tpd52	tumor protein D52	0.590266973	0.000117703	0.000980555
ENSMUSG00000042828	Trim72	tripartite motif-containing 72	-0.988412712	0.000117843	0.000981431
ENSMUSG00000027582	Zgpat	zinc finger, CCHC-type with G patch domain	-0.573992791	0.000118385	0.000985651
ENSMUSG00000022241	Tars	threonyl-tRNA synthetase	0.581923682	0.00011855	0.000986736
ENSMUSG00000040350	Trim7	tripartite motif-containing 7	-2.145182214	0.000118667	0.000987418
ENSMUSG00000040187	Arlt2	aryl hydrocarbon receptor nuclear translocator-like 2	-0.700757347	0.000118801	0.000988236
ENSMUSG00000074264	Amy1	amylase 1, salivary	-1.513024416	0.000118928	0.000989001
ENSMUSG00000022571	Pyrc1	pyrroline-5-carboxylate reductase-like	0.786244575	0.000119271	0.000991564
ENSMUSG00000039033	Tasp1	taspase, threonine aspartase 1	-0.663063912	0.000119789	0.000995579
ENSMUSG00000023266	Frs3	fibroblast growth factor receptor substrate 3	-1.404449117	0.000119872	0.00099597
ENSMUSG00000040998	Col5a3	collagen, type V, alpha 3	1.206212041	0.000120366	0.000999777
ENSMUSG00000024587	Nars	asparaginyl-tRNA synthetase	0.564461297	0.000120553	0.001001037
ENSMUSG00000087326	Gm12503	predicted gene 12503	2.438617703	0.000120842	0.001003142
ENSMUSG00000046179	E2f8	E2F transcription factor 8	2.238686945	0.000121266	0.001006368
ENSMUSG00000029715	Pop7	processing of precursor 7, ribonuclease P family, (S. cerevisiae)	0.775253306	0.000122008	0.00101222
ENSMUSG00000035245	Eogt	EGF domain-specific O-linked N-acetylglucosamine (GlcNAc) transferase	-0.513706182	0.000122143	0.001013044
ENSMUSG00000042404	Dennd4b	DENND/MADD domain containing 4B	-0.648294094	0.000122423	0.001014851
ENSMUSG00000021065	Fut8	fucosyltransferase 8	-0.65934986	0.000122433	0.001014851
ENSMUSG00000020099	Unc5b	unc-5 homolog B (C. elegans)	0.536234431	0.000122605	0.001015973
ENSMUSG00000038738	Shank1	SH3/ankyrin domain gene 1	-2.392885744	0.00012264	0.001015973
ENSMUSG00000039252	Lgi2	leucine-rich repeat LGI family, member 2	-1.274431822	0.000122702	0.001016181
ENSMUSG00000026131	Dst	dystonin	0.536421898	0.000123031	0.001018605
ENSMUSG00000019988	Nedd1	neural precursor cell expressed, developmentally down-regulated gene 1	0.618321439	0.000123125	0.001018978
ENSMUSG00000003469	Phyhip	phytanoyl-CoA hydroxylase interacting protein	-1.80948019	0.000123148	0.001018978
ENSMUSG00000025489	Ifitm5	interferon induced transmembrane protein 5	-1.331227842	0.000123361	0.00102044
ENSMUSG00000020411	Nipal4	NIPA-like domain containing 4	2.052339809	0.000123546	0.00102144
ENSMUSG00000024869	Nudt8	nudix (nucleoside diphosphate linked moiety X)-type motif 8	-0.8161919	0.000123559	0.00102144
ENSMUSG00000027547	Sall4	sall-like 4 (Drosophila)	-3.482847432	0.000123591	0.00102144
ENSMUSG00000027012	Dync1i2	dynein cytoplasmic 1 intermediate chain 2	0.551427071	0.000123642	0.001021566
ENSMUSG00000059003	Grin2a	glutamate receptor, ionotropic, NMDA2A (epsilon 1)	5.62006541	0.000124759	0.001030488
ENSMUSG00000097320	C630016N16Rik	RIKEN cDNA C630016N16 gene	-1.086941789	0.000125217	0.00103397
ENSMUSG00000037474	Dil	denticleless homolog (Drosophila)	2.156263274	0.000125464	0.001035704
ENSMUSG00000072825	Cep170b	centrosomal protein 170B	-1.058185762	0.000126088	0.001040552
ENSMUSG00000032329	Hmg20a	high mobility group 20A	-0.539724347	0.000126553	0.001044083
ENSMUSG00000031951	Tmem231	transmembrane protein 231	-0.979237417	0.000126604	0.001044197
ENSMUSG00000009630	Ppp2cb	protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform	0.562227001	0.000127555	0.001051732
ENSMUSG00000038301	Snx10	sorting nexin 10	0.616557257	0.000128324	0.00105745
ENSMUSG00000074346	Kcnd3os	potassium voltage-gated channel, Shal-related family, member 3, opposite strand	-6.406218703	0.0001283	0.00105745
ENSMUSG00000039089	L3mbtl3	l(3)mbt-like 3 (Drosophila)	0.602816953	0.00012855	0.001059006
ENSMUSG00000053453	Thoc7	THO complex 7 homolog (Drosophila)	0.623761247	0.000128617	0.001059249
ENSMUSG00000077506	Scama9	small Cajal body-specific RNA 9	1.025698228	0.000128797	0.001060238
ENSMUSG00000024576	Csnk1a1	casein kinase 1, alpha 1	0.535859776	0.000128813	0.001060238
ENSMUSG00000017466	Timp2	tissue inhibitor of metalloproteinase 2	0.508057951	0.000129113	0.001062401
ENSMUSG00000054418	2900041M22Rik	RIKEN cDNA 2900041M22 gene	-1.194391244	0.000129246	0.001063185
ENSMUSG00000056131	Pgm3	phosphoglucomutase 3	0.719664657	0.000129484	0.001064829
ENSMUSG00000090733	Rps27	ribosomal protein S27	-0.930017123	0.000129542	0.00106499
ENSMUSG00000018920	Cxcl16	chemokine (C-X-C motif) ligand 16	0.588691611	0.000129917	0.001067761
ENSMUSG00000075470	Algt10b	asparagine-linked glycosylation 10B (alpha-1,2-glycosyltransferase)	0.566201847	0.000130011	0.001068225
ENSMUSG00000079641	Rpl39	ribosomal protein L39	0.579146559	0.000131152	0.001077282
ENSMUSG00000020124	Usp15	ubiquitin specific peptidase 15	0.566594	0.000131723	0.001081656
ENSMUSG00000028466	Creb3	cAMP responsive element binding protein 3	0.535511696	0.000132583	0.001088404
ENSMUSG00000039680	Mrps6	mitochondrial ribosomal protein S6	0.778455822	0.000132631	0.001088476
ENSMUSG00000034035	Ccdc17	coiled-coil domain containing 17	-0.925685973	0.000132951	0.00109079

ENSMUSG00000021123	Rdh12	retinol dehydrogenase 12	1.312722893	0.000133322	0.001093516
ENSMUSG00000017146	Brca1	breast cancer 1	2.267436888	0.000133487	0.001094299
ENSMUSG00000028156	Eif4e	eukaryotic translation initiation factor 4E	0.641818127	0.000133496	0.001094299
ENSMUSG00000048495	Tyw5	tRNA-yW synthesizing protein 5	0.685211062	0.000133558	0.001094493
ENSMUSG00000031839	Hsbp1	heat shock factor binding protein 1	0.578260092	0.000133636	0.001094812
ENSMUSG00000021391	Cenpp	centromere protein P	2.050905967	0.000133714	0.001095131
ENSMUSG00000025551	Fgf14	fibroblast growth factor 14	-1.880666762	0.000134009	0.001097228
ENSMUSG00000037161	Mgarp	mitochondria localized glutamic acid rich protein	3.295811336	0.000134729	0.001102802
ENSMUSG00000046665	Cnn2	calponin 2	0.561536487	0.000134992	0.001104635
ENSMUSG00000034206	Polq	polymerase (DNA directed), theta	1.759484837	0.00013589	0.001111658
ENSMUSG00000030291	Med21	mediator complex subunit 21	0.634722411	0.000135969	0.001111979
ENSMUSG00000027698	Nceh1	neutral cholesterol ester hydrolase 1	-0.625595755	0.000136326	0.001114573
ENSMUSG00000100005	B130024G19Rik	RIKEN cDNA B130024G19 gene	-0.80862266	0.00013644	0.001115187
ENSMUSG00000027865	Gdap2	ganglioside-induced differentiation-associated-protein 2	0.574434707	0.000136754	0.00111743
ENSMUSG00000020402	Vdac1	voltage-dependent anion channel 1	0.553638283	0.000136797	0.001117452
ENSMUSG00000019773	Fbxo5	F-box protein 5	1.401038884	0.000137876	0.001125938
ENSMUSG00000084786	Ubl5	ubiquitin-like 5	0.580170154	0.000138913	0.001134076
ENSMUSG00000038074	Fkbp14	FK506 binding protein 14	2.480571195	0.000139038	0.001134767
ENSMUSG00000022947	Cbr3	carbonyl reductase 3	-1.231089934	0.000139516	0.001138339
ENSMUSG00000037376	Trmt6	tRNA methyltransferase 6	0.628919339	0.000139735	0.001139796
ENSMUSG00000026553	Copa	coatomer protein complex subunit alpha	0.554408599	0.000140411	0.0011449
ENSMUSG00000028126	Pip5k1a	phosphatidylinositol-4-phosphate 5-kinase, type 1 alpha	0.54853424	0.000140442	0.0011449
ENSMUSG00000034265	Zdhc14	zinc finger, DHHC domain containing 14	-0.859809082	0.000140756	0.001147126
ENSMUSG00000036299	BC031181	cDNA sequence BC031181	0.602656653	0.000140813	0.001147263
ENSMUSG00000049516	Spt2d1	SPT2, Suppressor of Ty, domain containing 1 (S. cerevisiae)	0.608382907	0.000141058	0.001148924
ENSMUSG00000021273	Fdft1	farnesyl diphosphate farnesyl transferase 1	0.751295158	0.000141165	0.001149461
ENSMUSG00000028360	Slc44a5	solute carrier family 44, member 5	0.693793885	0.000141475	0.001151655
ENSMUSG00000024442	O610009O20Rik	RIKEN cDNA O610009O20 gene	-0.530461863	0.000141742	0.001153495
ENSMUSG00000059824	Dbp	D site albumin promoter binding protein	-1.866725843	0.000142291	0.001157625
ENSMUSG00000028576	Iltf74	intraflagellar transport 74	0.662692305	0.000142958	0.001162715
ENSMUSG00000037110	Ralgapa2	Ral GTPase activating protein, alpha subunit 2 (catalytic)	0.570503832	0.000143293	0.001165106
ENSMUSG00000090112	Shprh	SNF2 histone linker PHD RING helicase	-0.513267738	0.000143576	0.001167066
ENSMUSG00000018326	Ywhab	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide	0.562768919	0.000144096	0.001170955
ENSMUSG00000060206	Zfp462	zinc finger protein 462	0.552515832	0.000144204	0.001171498
ENSMUSG00000099481	Xndc1	Xrcc1 N-terminal domain containing 1	-0.588936157	0.000144969	0.001177374
ENSMUSG00000044147	Arf6	ADP-ribosylation factor 6	0.551110696	0.000145403	0.001180214
ENSMUSG00000039741	Bahcc1	BAH domain and coiled-coil containing 1	-0.86724965	0.000145403	0.001180214
ENSMUSG00000073678	Pgap1	post-GPI attachment to proteins 1	-0.593692556	0.000145778	0.001182915
ENSMUSG00000029392	Rilp1	Rab interacting lysosomal protein-like 1	-0.605129976	0.000146751	0.001190472
ENSMUSG00000054434	Tmem120b	transmembrane protein 120B	0.606511347	0.000147005	0.001192182
ENSMUSG00000010755	Cars	cysteinyl-tRNA synthetase	0.591880269	0.000147919	0.001199256
ENSMUSG00000073412	Lst1	leukocyte specific transcript 1	1.12994734	0.000148726	0.001205446
ENSMUSG00000005447	Pafah1b3	platelet-activating factor acetylhydrolase, isoform 1b, subunit 3	0.86709592	0.000148955	0.001206958
ENSMUSG00000004099	Dnmt1	DNA methyltransferase (cytosine-5) 1	0.624118905	0.000149754	0.001213079
ENSMUSG00000038299	Wdr36	WD repeat domain 36	0.587932451	0.000149984	0.001213503
ENSMUSG00000022681	Ntan1	N-terminal Asn amidase	0.575231978	0.000149917	0.001213503
ENSMUSG00000035572	Dcaf10	DDB1 and CUL4 associated factor 10	0.562614155	0.0001499	0.001213503
ENSMUSG00000056598	Lrrc48	leucine rich repeat containing 48	-1.252322019	0.000149937	0.001213503
ENSMUSG00000043822	Adamts15	ADAMTS-like 5	-1.548458551	0.000150022	0.001213503
ENSMUSG00000100457	D830032E09Rik	RIKEN cDNA D830032E09 gene	-2.13554265	0.000150184	0.001214465
ENSMUSG00000103946	AC116138.1		-2.429132074	0.000150315	0.001215175
ENSMUSG00000020024	Cep83	centrosomal protein 83	0.631048286	0.000151377	0.001223413
ENSMUSG00000010114	Icam4	intercellular adhesion molecule 4, Landsteiner-Wiener blood group	-1.727752856	0.000151745	0.001226032
ENSMUSG00000047003	Zfp41	zinc finger protein 41	0.688460357	0.000151974	0.00122753
ENSMUSG00000024286	Ceny	cyclin Y	0.605655712	0.000152138	0.001228502
ENSMUSG00000034910	Pygop1	pygopus 1	-0.896902472	0.000152352	0.001229877
ENSMUSG00000020990	Cdk1	cyclin-dependent kinase-like 1 (CDC2-related kinase)	1.29604857	0.00015296	0.001234432
ENSMUSG00000015542	Nat9	N-acetyltransferase 9 (GCN5-related, putative)	-0.733356294	0.000153028	0.001234627
ENSMUSG00000029163	Emilin1	elastin microfibril interfacer 1	0.890077552	0.000153272	0.001235532
ENSMUSG00000031256	Cstf2	cleavage stimulation factor, 3' pre-RNA subunit 2	0.587160811	0.000153272	0.001235532
ENSMUSG00000103768	RP23-36P10.10		-1.832211933	0.00015319	0.001235532
ENSMUSG00000030451	Herc2	hect (homologous to the E6-AP (UBE3A) carboxyl terminus) domain and RCC1 (CHC1)-like domain (RLD) 2	0.525930385	0.00015349	0.001236936
ENSMUSG00000015467	Egfl8	EGF-like domain 8	-1.419853362	0.00015391	0.00123996
ENSMUSG00000100550	2310039L15Rik	RIKEN cDNA 2310039L15 gene	-3.162515128	0.000154536	0.001244653
ENSMUSG00000074220	Zfp382	zinc finger protein 382	0.788104697	0.000154652	0.001245226
ENSMUSG00000036062	N28178	expressed sequence N28178	-1.843293275	0.000154707	0.001245311
ENSMUSG00000081978	Gm14895	predicted gene 14895	1.019345671	0.000155071	0.001247884
ENSMUSG00000024222	Fkbp5	FK506 binding protein 5	1.97032869	0.000155938	0.001254506
ENSMUSG00000050786	Ccdc126	coiled-coil domain containing 126	0.676707088	0.000157276	0.001264904
ENSMUSG00000011751	Sptbn4	spectrin beta, non-erythrocytic 4	-2.196851544	0.000157514	0.001266459
ENSMUSG00000046223	Plaur	plasminogen activator, urokinase receptor	1.838678039	0.000159012	0.001278142
ENSMUSG00000036902	Neto2	neuropilin (NRP) and tollid (TLL)-like 2	1.343567834	0.000160374	0.001288718
ENSMUSG00000022752	Torm70a	translocase of outer mitochondrial membrane 70 homolog A (yeast)	0.5669358	0.000160584	0.001290033

ENSMUSG00000038023	Atp6v0a2	ATPase, H+ transporting, lysosomal V0 subunit A2	0.567809394	0.000160745	0.001290963
ENSMUSG00000014763	Fam120b	family with sequence similarity 120, member B	-0.544661082	0.000161466	0.001296384
ENSMUSG00000018362	Kpna2	karyopherin (importin) alpha 2	0.957098428	0.000161541	0.001296615
ENSMUSG00000028207	Asph	aspartate-beta-hydroxylase	-0.539163751	0.000162266	0.001302066
ENSMUSG00000032026	Rexo2	REX2, RNA exonuclease 2 homolog (S. cerevisiae)	0.615421911	0.000162423	0.001302947
ENSMUSG00000024366	Gfra3	glial cell line derived neurotrophic factor family receptor alpha 3	-1.783573683	0.000162559	0.001303918
ENSMUSG00000064363	mt-Nd4	mitochondrially encoded NADH dehydrogenase 4	-0.564074797	0.000162821	0.001305397
ENSMUSG00000038721	Bud31	BUD31 homolog (yeast)	0.581082403	0.000163618	0.001311416
ENSMUSG00000027184	Caprin1	cell cycle associated protein 1	0.55800317	0.00016423	0.001315948
ENSMUSG00000021076	Actr10	ARP10 actin-related protein 10	0.553325136	0.000165358	0.001324609
ENSMUSG00000036214	Znrd1as	Znrd1 antisense	-0.907366765	0.000165961	0.001329057
ENSMUSG00000027889	Ampd2	adenosine monophosphate deaminase 2	0.575717721	0.000166835	0.001335145
ENSMUSG00000022353	Mtss1	metastasis suppressor 1	-0.451115583	0.000166911	0.001335145
ENSMUSG00000030134	Rasgef1a	RasGEF domain family, member 1A	-1.537028265	0.000166836	0.001335145
ENSMUSG00000096950	Gm9530	predicted gene 9530	-1.568382379	0.000166876	0.001335145
ENSMUSG00000027959	Sass6	spindle assembly 6 homolog (C. elegans)	0.868004416	0.000167027	0.001335693
ENSMUSG00000039004	Bmp6	bone morphogenetic protein 6	-0.744500157	0.000167716	0.001340824
ENSMUSG00000001248	Gramd1a	GRAM domain containing 1A	0.540444018	0.000168085	0.001343392
ENSMUSG00000039703	Nploc4	nuclear protein localization 4 homolog (S. cerevisiae)	0.526012537	0.000168466	0.001346053
ENSMUSG00000070284	Gmppb	GDP-mannose pyrophosphorylase B	0.639627921	0.000168905	0.001348795
ENSMUSG00000078851	Hist3h2a	histone cluster 3, H2a	-0.584297374	0.000168882	0.001348795
ENSMUSG00000033323	Ctdp1	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) phosphatase, subunit 1	0.529423785	0.000170639	0.001362254
ENSMUSG00000057614	Gnai1	guanine nucleotide binding protein (G protein), alpha inhibiting 1	0.700408838	0.000170858	0.001363616
ENSMUSG00000055632	Hmncn2	hemicentin 2	-1.672213627	0.000171122	0.001365337
ENSMUSG00000020520	Galn10	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 10	-0.640246863	0.000171699	0.001369551
ENSMUSG00000022949	Clic6	chloride intracellular channel 6	7.03053265	0.000172385	0.001374631
ENSMUSG00000061778	Mospd2	motile sperm domain containing 2	0.549072746	0.00017258	0.001375798
ENSMUSG00000035863	Palm	paralemmalin	-1.496789718	0.000173013	0.001378862
ENSMUSG00000085162	Gm12295	predicted gene 12295	-1.626015839	0.000173092	0.0013791
ENSMUSG00000008730	Hipk1	homeodomain interacting protein kinase 1	0.557691069	0.000173467	0.001381698
ENSMUSG00000038774	Ascc3	activating signal cointegrator 1 complex subunit 3	0.575432197	0.000174068	0.001386093
ENSMUSG00000041483	Zfp281	zinc finger protein 281	0.542399757	0.000174297	0.001386738
ENSMUSG00000025736	Jmjd8	jumonji domain containing 8	-0.543173375	0.000174229	0.001386738
ENSMUSG00000057722	Lepr	leptin receptor	-0.947060378	0.000174291	0.001386738
ENSMUSG00000078452	Raet1d	retinoic acid early transcript delta	2.511263435	0.000175001	0.001391941
ENSMUSG00000089847	Timm10b	translocase of inner mitochondrial membrane 10B	0.647995559	0.000175247	0.00139351
ENSMUSG00000046417	Lrc75a	leucine rich repeat containing 75A	-0.778256573	0.000175528	0.001395348
ENSMUSG00000034006	Pqcl1	PQ loop repeat containing 1	0.617107132	0.00017646	0.001402361
ENSMUSG00000036934	4921524J17Rik	RIKEN cDNA 4921524J17 gene	0.67335236	0.000176609	0.001403146
ENSMUSG00000022096	Hr	hairless	-1.04619112	0.000176777	0.001404086
ENSMUSG00000028602	Tnfrsf8	tumor necrosis factor receptor superfamily, member 8	1.585740283	0.000176857	0.001404321
ENSMUSG00000037742	Eef1a1	eukaryotic translation elongation factor 1 alpha 1	0.510795391	0.00017702	0.001405217
ENSMUSG00000040896	Kcnd3	potassium voltage-gated channel, Shal-related family, member 3	-2.36134872	0.000177549	0.001409022
ENSMUSG00000002847	Pla1a	phospholipase A1 member A	0.839567089	0.000177894	0.001411366
ENSMUSG00000001785	Pwp1	PWP1 homolog (S. cerevisiae)	0.616415821	0.000178604	0.001416598
ENSMUSG00000039105	Atp6v1g1	ATPase, H+ transporting, lysosomal V1 subunit G1	0.572529723	0.00018024	0.001429152
ENSMUSG00000004364	Cul3	cullin 3	0.536940147	0.000180289	0.001429152
ENSMUSG00000028047	Thbs3	thrombospondin 3	-0.954281843	0.000180469	0.00143018
ENSMUSG00000020888	Dvl2	dishevelled 2, dsh homolog (Drosophila)	-0.775959639	0.000180668	0.001431349
ENSMUSG00000020271	Fbxw11	F-box and WD-40 domain protein 11	0.539095278	0.000180861	0.001432475
ENSMUSG00000021427	Ssr1	signal sequence receptor, alpha	0.5490211	0.000181018	0.001433321
ENSMUSG00000027412	Lpin3	lipin 3	1.566605683	0.000181194	0.001434307
ENSMUSG00000074656	Eif2s2	eukaryotic translation initiation factor 2, subunit 2 (beta)	0.59612372	0.000181731	0.001438155
ENSMUSG00000051515	Fam181b	family with sequence similarity 181, member B	0.621178101	0.000182268	0.001445257
ENSMUSG00000019795	Pcmt1	protein-L-isoaspartate (D-aspartate) O-methyltransferase 1	0.565514304	0.000183414	0.001450658
ENSMUSG00000040663	Cicf1	cardiotrophin-like cytokine factor 1	0.713992501	0.000183725	0.001452708
ENSMUSG00000026893	Gca	grancalcin	-1.407590976	0.000183934	0.001453955
ENSMUSG00000051483	Cbr1	carbonyl reductase 1	-0.71643688	0.000184923	0.001461363
ENSMUSG00000028277	Ube2j1	ubiquitin-conjugating enzyme E2J 1	0.531908252	0.00018531	0.001464009
ENSMUSG00000034681	Rnps1	ribonucleic acid binding protein S1	0.638833347	0.000186056	0.00146949
ENSMUSG00000031090	Nadsyn1	NAD synthetase 1	-0.658489617	0.000186149	0.001469807
ENSMUSG00000030718	Ppme1	protein phosphatase methylesterase 1	0.553835438	0.000187049	0.001476501
ENSMUSG00000030983	Bccip	BRCA2 and CDKN1A interacting protein, 4	0.608247462	0.00018722	0.001477436
ENSMUSG00000103677	Pcdhga4	protocadherin gamma subfamily A, 4	-0.718946776	0.000187606	0.001480065
ENSMUSG00000074194	Zfp791	zinc finger protein 791	-1.416776245	0.000188372	0.001485696
ENSMUSG00000037253	Mex3c	mex3 homolog C (C. elegans)	0.542907103	0.000188758	0.001488319
ENSMUSG00000031357	Svap1	synapse associated protein 1	0.550095649	0.00018903	0.001490045
ENSMUSG00000031671	Setd6	SET domain containing 6	-0.715580462	0.000190109	0.001498134
ENSMUSG00000019214	Chtf18	CTF18, chromosome transmission fidelity factor 18	1.074140084	0.00019038	0.001499849
ENSMUSG00000024395	Lims2	LIM and senescent cell antigen like domains 2	-1.040862186	0.000190656	0.001501599
ENSMUSG00000097081	Gm10425	predicted gene 10425	2.093690476	0.000191669	0.001509155
ENSMUSG00000027806	Tsc22d2	TSC22 domain family, member 2	0.525522394	0.00019245	0.001514881
ENSMUSG00000103037	Pcdhgb1	protocadherin gamma subfamily B, 1	-0.659054256	0.000193351	0.001521123

ENSMUSG00000067629	Syngap1	synaptic Ras GTPase activating protein 1 homolog (rat)	-0.826924155	0.000193341	0.001521123
ENSMUSG00000028252	Ccnc	cyclin C	0.592296981	0.000193739	0.00152375
ENSMUSG00000021546	Hnmpk	heterogeneous nuclear ribonucleoprotein K	0.522421465	0.000194576	0.001529903
ENSMUSG00000037466	4930427A07Rik	RIKEN cDNA 4930427A07 gene	0.979977283	0.000195419	0.001536106
ENSMUSG00000040557	Wbscr27	Williams Beuren syndrome chromosome region 27 (human)	0.823025976	0.000195713	0.001537987
ENSMUSG00000035310	Lin54	lin-54 homolog (C. elegans)	0.605750321	0.000195863	0.001538736
ENSMUSG00000097123	Gm6297	predicted gene 6297	-1.320670286	0.000196265	0.00154146
ENSMUSG00000056602	Fry	furry homolog (Drosophila)	-0.603203904	0.000197452	0.001549921
ENSMUSG00000031461	Myom2	myomesin 2	-1.615387053	0.000197426	0.001549921
ENSMUSG00000040312	Cchcr1	coiled-coil alpha-helical rod protein 1	0.679998409	0.000197931	0.001553251
ENSMUSG00000026407	Cacna1s	calcium channel, voltage-dependent, L type, alpha 1S subunit	-1.907481678	0.000198034	0.001553621
ENSMUSG00000084052	Gm11745	predicted gene 11745	-1.335098236	0.000198092	0.001553641
ENSMUSG00000017868	Sgk2	serum/glucocorticoid regulated kinase 2	6.541859981	0.000198951	0.001559947
ENSMUSG00000082163	Gm14276	predicted gene 14276	1.530234126	0.000199012	0.001559988
ENSMUSG00000032625	Thsd7a	thrombospondin, type I, domain containing 7A	-0.643000341	0.000199886	0.001566407
ENSMUSG00000028348	Murc	muscle-related coiled-coil protein	-1.67361686	0.000200215	0.001568547
ENSMUSG00000035493	Tgfb1	transforming growth factor, beta induced	1.530476881	0.000201058	0.001574708
ENSMUSG00000022094	Slc39a14	solute carrier family 39 (zinc transporter), member 14	0.576555109	0.000201233	0.001575645
ENSMUSG00000010663	Fads1	fatty acid desaturase 1	0.585988823	0.000201546	0.001577657
ENSMUSG00000097184	4632428C04Rik	RIKEN cDNA 4632428C04 gene	-1.315989918	0.000202514	0.00158479
ENSMUSG00000021636	Marveld2	MARVEL (membrane-associating) domain containing 2	1.048615992	0.000203879	0.001595031
ENSMUSG00000048012	Zfp473	zinc finger protein 473	1.207678854	0.000204562	0.001599487
ENSMUSG00000080626	Mir1192	microRNA 1192	-1.499218573	0.000204555	0.001599487
ENSMUSG00000048960	Prex2	phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 2	-0.482041082	0.000205364	0.001605309
ENSMUSG00000005413	Hmox1	heme oxygenase (decycling) 1	1.055596994	0.000205619	0.001606858
ENSMUSG00000028621	Cybb1	cytochrome b5 reductase-like	-0.702491518	0.000206143	0.001610058
ENSMUSG00000003273	Car11	carbonic anhydrase 11	-1.201038335	0.000206094	0.001610058
ENSMUSG00000021807	2700060E02Rik	RIKEN cDNA 2700060E02 gene	0.562908786	0.00020638	0.001611457
ENSMUSG00000024251	Thada	thyroid adenoma associated	-0.505476483	0.000206939	0.001614929
ENSMUSG00000027820	Mme	membrane metallo endopeptidase	-1.432491379	0.000206908	0.001614929
ENSMUSG000000095789	Nupr11	nuclear protein transcriptional regulator 1 like	-1.276131039	0.000207426	0.001618277
ENSMUSG00000022987	Zfp641	zinc finger protein 641	-1.557596859	0.000207563	0.001618902
ENSMUSG00000028333	Anp32b	acidic (leucine-rich) nuclear phosphoprotein 32 family, member B	0.6817261	0.000207811	0.001620383
ENSMUSG00000042429	Adora1	adenosine A1 receptor	-1.672385804	0.000208054	0.001621831
ENSMUSG00000015053	Gata2	GATA binding protein 2	-0.74385732	0.000208175	0.001622321
ENSMUSG00000022175	Lrp10	low-density lipoprotein receptor-related protein 10	0.623451783	0.000210276	0.00163779
ENSMUSG00000026577	Blzf1	basic leucine zipper nuclear factor 1	0.569135395	0.000210249	0.00163779
ENSMUSG00000022199	Slc22a17	solute carrier family 22 (organic cation transporter), member 17	-0.963049138	0.000211743	0.001648757
ENSMUSG000000031103	E1f4	E74-like factor 4 (ets domain transcription factor)	0.531406964	0.000211961	0.001650003
ENSMUSG00000016356	Col20a1	collagen, type XX, alpha 1	-1.027808177	0.000214012	0.001665503
ENSMUSG00000020723	Cacng4	calcium channel, voltage-dependent, gamma subunit 4	3.530504633	0.000214444	0.001667479
ENSMUSG00000028692	Akr1a1	aldo-keto reductase family 1, member A1 (aldehyde reductase)	0.506914531	0.0002144	0.001667479
ENSMUSG00000022701	2610015P09Rik	RIKEN cDNA 2610015P09 gene	-0.666457759	0.000214348	0.001667479
ENSMUSG00000054708	Ankrd24	ankyrin repeat domain 24	-0.616623812	0.000214507	0.001667513
ENSMUSG00000046709	Mapk10	mitogen-activated protein kinase 10	-2.079396022	0.000215149	0.001672044
ENSMUSG00000033909	Usp36	ubiquitin specific peptidase 36	-0.585787718	0.000215954	0.001677832
ENSMUSG00000091537	Tma7	translational machinery associated 7 homolog (S. cerevisiae)	0.731390523	0.000216448	0.001680281
ENSMUSG00000032261	Sh3bgl2	SH3 domain binding glutamic acid-rich protein like 2	0.564551763	0.000216417	0.001680281
ENSMUSG00000043487	Acot6	acyl-CoA thioesterase 6	-1.129217453	0.000216356	0.001680281
ENSMUSG00000010053	Gm28154	predicted gene 28154	-1.920798951	0.000216527	0.001680431
ENSMUSG00000047747	Rnf150	ring finger protein 150	-0.798307827	0.000216668	0.001681152
ENSMUSG00000002458	Rgs19	regulator of G-protein signaling 19	0.653546229	0.000218003	0.001690953
ENSMUSG00000037573	Tob1	transducer of ErbB-2.1	-0.711691373	0.000218146	0.001691595
ENSMUSG00000022808	Snx4	sorting nexin 4	0.530776351	0.000219192	0.001699233
ENSMUSG00000032640	Chsy1	chondroitin sulfate synthase 1	0.555964026	0.000219536	0.001701437
ENSMUSG00000050914	Ankrd37	ankyrin repeat domain 37	-0.975919179	0.000219744	0.001702575
ENSMUSG00000044694	2010007H06Rik	RIKEN cDNA 2010007H06 gene	-2.0152514	0.00021982	0.001702696
ENSMUSG00000033526	Ppip5k1	diphosphoinositol pentakisphosphate kinase 1	-0.689028799	0.000220407	0.001706773
ENSMUSG00000037003	Tenc1	tensin like C1 domain-containing phosphatase	-1.055967013	0.000220649	0.001708178
ENSMUSG00000002718	Cse11	chromosome segregation 1-like (S. cerevisiae)	0.587010825	0.000221345	0.001713092
ENSMUSG00000070423	Olfir558	olfactory receptor 558	-0.618649568	0.000223468	0.001729049
ENSMUSG00000040680	Kremen2	kringle containing transmembrane protein 2	-1.978586314	0.000225447	0.001743879
ENSMUSG00000024085	Man2a1	mannosidase 2, alpha 1	0.50738363	0.000226722	0.00175326
ENSMUSG00000053007	Creb5	cAMP responsive element binding protein 5	0.740014588	0.000227451	0.001758417
ENSMUSG00000013089	Etv5	ets variant 5	-0.664030351	0.000228203	0.001763748
ENSMUSG00000028879	Stx12	syntaxin 12	0.523808883	0.000228831	0.001764089
ENSMUSG00000041642	Kif21b	kinesin family member 21B	-0.917226399	0.000228496	0.001765037
ENSMUSG00000030606	Hapln3	hyaluronan and proteoglycan link protein 3	-1.50393197	0.000228643	0.001765689
ENSMUSG00000047867	Gimap6	GTPase, IMAP family member 6	0.496304488	0.000229267	0.001770024
ENSMUSG00000050335	Lgals3	lectin, galactose binding, soluble 3	1.526078634	0.000229348	0.001770166
ENSMUSG00000027593	Raly	hnRNP-associated with lethal yellow	0.531187853	0.000230355	0.00177745
ENSMUSG00000035232	Pdk3	pyruvate dehydrogenase kinase, isoenzyme 3	0.701243986	0.000230838	0.001780685
ENSMUSG00000033857	Engase	endo-beta-N-acetylglucosaminidase	-0.904829989	0.000231083	0.001782092

ENSMUSG0000063904	Dpp3	dipeptidylpeptidase 3	0.544176858	0.000231324	0.001783454
ENSMUSG0000062184	Hs6st2	heparan sulfate 6-O-sulfotransferase 2	0.808676222	0.000231518	0.001784428
ENSMUSG0000041203	Z310036O22Rik	RIKEN cDNA 2310036O22 gene	0.553864959	0.000231577	0.001784428
ENSMUSG0000070583	Fv1	Friend virus susceptibility 1	-0.580965378	0.000233164	0.001796164
ENSMUSG0000059932	Fto	fat mass and obesity associated	-0.540644249	0.000233353	0.001797134
ENSMUSG0000030452	Nipa2	non imprinted in Prader-Willi/Angelman syndrome 2 homolog (human)	0.575951385	0.000234227	0.00180337
ENSMUSG0000028270	Gbp2	guanylate binding protein 2	-0.467496325	0.000234448	0.001804577
ENSMUSG0000052920	Prkg1	protein kinase, cGMP-dependent, type I	-0.627840087	0.000234547	0.001804848
ENSMUSG0000029634	Rnf6	ring finger protein (C3H2C3 type) 6	0.535197965	0.000234876	0.001806881
ENSMUSG0000079419	Ms4a6c	membrane-spanning 4-domains, subfamily A, member 6C	1.002963293	0.000235335	0.001809916
ENSMUSG0000025287	Acot9	acyl-CoA thioesterase 9	0.52272531	0.000236043	0.001814863
ENSMUSG0000029683	Lmod2	leiomodien 2 (cardiac)	-1.56782994	0.000237435	0.001825074
ENSMUSG0000050930	Map10	microtubule-associated protein 10	-0.636787013	0.000237588	0.001825745
ENSMUSG0000034333	Zbed4	zinc finger, BED domain containing 4	1.014878388	0.000238633	0.001833275
ENSMUSG0000045613	Chrm2	cholinergic receptor, muscarinic 2, cardiac	-1.262561501	0.000238888	0.001834238
ENSMUSG0000054966	Lmntd1	lamin tail domain containing 1	-5.790133185	0.000238855	0.001834238
ENSMUSG0000051427	Ccdc157	coiled-coil domain containing 157	-0.631050301	0.000240028	0.001842486
ENSMUSG0000057229	Atp5sl	ATP5S-like	-0.620194722	0.000240247	0.001843662
ENSMUSG0000019782	Rwdd1	RWD domain containing 1	0.709039177	0.000240469	0.001844861
ENSMUSG0000052387	Trpm3	transient receptor potential cation channel, subfamily M, member 3	0.553979154	0.000240981	0.00184829
ENSMUSG0000056481	Cd248	CD248 antigen, endosialin	0.952587578	0.000241246	0.001849813
ENSMUSG0000021774	Ube2e1	ubiquitin-conjugating enzyme E2E 1	0.588904521	0.000243721	0.001868283
ENSMUSG000008855	Hdac5	histone deacetylase 5	-0.775976431	0.000243852	0.001868778
ENSMUSG0000017309	Cd300lg	CD300 antigen like family member G	-0.736232106	0.000244685	0.001874654
ENSMUSG0000028511	Srp9	signal recognition particle 9	0.578623983	0.00024492	0.001875944
ENSMUSG0000038957	Edc3	enhancer of mRNA decapping 3 homolog (S. cerevisiae)	-0.582878715	0.000245222	0.001877746
ENSMUSG00000505628	Tmod4	tropomodulin 4	-1.224480897	0.000245614	0.001880237
ENSMUSG0000031668	Eif2ak3	eukaryotic translation initiation factor 2 alpha kinase 3	0.510248203	0.000245751	0.001880772
ENSMUSG0000020218	Wif1	Wnt inhibitory factor 1	-2.78481434	0.000246738	0.001887809
ENSMUSG0000022329	Stk3	serine/threonine kinase 3	0.5481774	0.000247194	0.001890789
ENSMUSG0000021681	Aggf1	angiogenic factor with G patch and FHA domains 1	0.5362200745	0.000247861	0.001895371
ENSMUSG0000052429	Prmt1	protein arginine N-methyltransferase 1	0.558024069	0.000248386	0.001898871
ENSMUSG0000062380	Tubb3	tubulin, beta 3 class III	1.570447479	0.000248703	0.001900777
ENSMUSG0000027203	Dut	deoxyuridine triphosphatase	1.048853201	0.000249873	0.001909197
ENSMUSG0000097776	Gm26795	predicted gene, 26795	-2.644569135	0.00025015	0.001910795
ENSMUSG0000037815	Ctnna1	catenin (cadherin associated protein), alpha 1	0.502602579	0.000250673	0.001914277
ENSMUSG0000039410	Prdm16	PR domain containing 16	-0.578449899	0.000251415	0.001919415
ENSMUSG00000102340	RP24-496O17.2		-1.025866044	0.000251592	0.001920249
ENSMUSG0000067924	Cxx1b	CAAX box 1B	-0.636246753	0.000251809	0.001921384
ENSMUSG0000036106	Prr5	proline rich 5 (renal)	0.882527134	0.00025194	0.00192186
ENSMUSG0000028031	Dkk2	dickkopf homolog 2 (Xenopus laevis)	1.016488295	0.000252702	0.001927155
ENSMUSG0000047658	Gal3st3	galactose-3-O-sulfotransferase 3	-2.630471827	0.000253061	0.001929365
ENSMUSG0000026971	Itgb6	integrin beta 6	-2.215747785	0.000253664	0.001933443
ENSMUSG0000023908	Pkmyt1	protein kinase, membrane associated tyrosine/threonine 1	0.989109175	0.00025397	0.001935249
ENSMUSG0000022369	Mbp	Mdm2, transformed 3T3 cell double minute p53 binding protein	0.641256083	0.000254323	0.001937413
ENSMUSG0000068523	Gng5	guanine nucleotide binding protein (G protein), gamma 5	0.589791316	0.000254549	0.001938609
ENSMUSG0000090919	Pabpc4l	poly(A) binding protein, cytoplasmic 4-like	1.105677109	0.000254663	0.001938957
ENSMUSG0000020925	Ccdc43	coiled-coil domain containing 43	0.608846938	0.000255053	0.001941397
ENSMUSG0000045868	Gvin1	GTPase, very large interferon inducible 1	-0.615183372	0.000256562	0.001952357
ENSMUSG0000053198	Prx	periaxin	0.863786453	0.000256648	0.001952483
ENSMUSG0000026623	Lpgat1	lysophosphatidylglycerol acyltransferase 1	0.55820295	0.000256804	0.001953144
ENSMUSG0000021775	Nr1d2	nuclear receptor subfamily 1, group D, member 2	-0.768253681	0.000256878	0.001953175
ENSMUSG0000087260	Lamtor5	late endosomal/lysosomal adaptor, MAPK and MTOR activator 5	0.579105959	0.000257278	0.001955685
ENSMUSG000005958	Ephb3	Eph receptor B3	-0.960119498	0.000257892	0.001959826
ENSMUSG0000021585	Cast	calpastatin	0.511300995	0.000258873	0.001966753
ENSMUSG0000027193	Api5	apoptosis inhibitor 5	0.546651768	0.000260008	0.001974841
ENSMUSG0000013701	Timm23	translocase of inner mitochondrial membrane 23	1.04807574	0.000260574	0.001978072
ENSMUSG0000064427	Gm22748	predicted gene, 22748	0.675254767	0.00026055	0.001978072
ENSMUSG0000026663	Atf6	activating transcription factor 6	0.49754688	0.000261204	0.001982318
ENSMUSG0000046178	Nxph1	neurexophilin 1	3.792279146	0.000261842	0.001985614
ENSMUSG0000022434	Fam118a	family with sequence similarity 118, member A	0.608882573	0.00026185	0.001985614
ENSMUSG0000032875	Arhgef17	Rho guanine nucleotide exchange factor (GEF) 17	-0.756279486	0.000261814	0.001985614
ENSMUSG0000047187	Rab2a	RAB2A, member RAS oncogene family	0.518367006	0.000262056	0.001986642
ENSMUSG0000042246	Tmc7	transmembrane channel-like gene family 7	-0.867932769	0.000262678	0.001990815
ENSMUSG0000040836	Gpr161	G protein-coupled receptor 161	-0.622901095	0.000263026	0.001992922
ENSMUSG0000031740	Mmp2	matrix metalloproteinase 2	0.949745589	0.000263763	0.001997022
ENSMUSG0000075592	Nynrin	NYN domain and retroviral integrase containing	-0.661875575	0.00026378	0.001997022
ENSMUSG0000028958	Dpp7	dipeptidylpeptidase 7	-0.675718711	0.000263697	0.001997022
ENSMUSG0000036533	Cdc42ep3	CDC42 effector protein (Rho GTPase binding) 3	1.029426602	0.000263964	0.001997873
ENSMUSG0000032113	Chek1	checkpoint kinase 1	1.789816916	0.000264309	0.001999591
ENSMUSG0000091898	Tnnc1	troponin C, cardiac/slow skeletal	-1.339570397	0.000264333	0.001999591
ENSMUSG0000022297	Fzd6	frizzled homolog 6 (Drosophila)	-0.514836464	0.000264725	0.002002015
ENSMUSG0000020166	Cnot2	CCR4-NOT transcription complex, subunit 2	0.563044446	0.000267192	0.002020135

ENSMUSG00000025352	Gdf11	growth differentiation factor 11	-0.640116057	0.000269408	0.002036341
ENSMUSG00000029406	Pitprm2	phosphatidylinositol transfer protein, membrane-associated 2	-0.594839062	0.000269569	0.002037007
ENSMUSG00000029229	Chic2	cysteine-rich hydrophobic domain 2	0.514962284	0.000270028	0.002039929
ENSMUSG00000005986	Ankrd13d	ankyrin repeat domain 13 family, member D	-0.907555828	0.000271367	0.002049496
ENSMUSG00000032387	Rbpmis2	RNA binding protein with multiple splicing 2	-0.612030099	0.000271624	0.002050888
ENSMUSG00000104465	RP23-199M5.5		-2.759836517	0.000272446	0.002056542
ENSMUSG00000052684	Jun	jun proto-oncogene	-0.688816708	0.000272828	0.002058874
ENSMUSG00000033170	Card10	caspace recruitment domain family, member 10	-0.955752778	0.000273549	0.00206376
ENSMUSG00000074282	Zfp94	zinc finger protein 94	-0.87455381	0.000273704	0.002064373
ENSMUSG000000023110	Prmt5	protein arginine N-methyltransferase 5	0.60092192	0.000274892	0.002072779
ENSMUSG00000053929	Cyhr1	cysteine and histidine rich 1	-0.520242573	0.000275831	0.00207923
ENSMUSG00000034810	Scn7a	sodium channel, voltage-gated, type VII, alpha	-0.793538874	0.000275895	0.00207923
ENSMUSG00000036992	Nxt1	NTF2-related export protein 1	0.698666087	0.000276028	0.002079673
ENSMUSG00000085653	Gm15179	predicted gene 15179	-2.520254469	0.000278012	0.002094058
ENSMUSG00000065999	Gm13154	predicted gene 13154	-0.84513164	0.000278234	0.002095172
ENSMUSG00000075224	Lrrc55	leucine rich repeat containing 55	1.5494406	0.000278779	0.002098711
ENSMUSG000000092074	Dynl1a	dynein light chain Tctex-type 1A	1.748272069	0.000278987	0.002099153
ENSMUSG00000087006	Gm13889	predicted gene 13889	0.91694131	0.000278921	0.002099153
ENSMUSG00000030979	Uros	uroporphyrinogen III synthase	-0.601221261	0.000279994	0.002106169
ENSMUSG00000002289	Angptl4	angiopoietin-like 4	3.296182144	0.000280959	0.002112864
ENSMUSG00000004896	Rnad1	ribosomal RNA adenine dimethylase domain containing 1	-0.570620551	0.000281251	0.002114495
ENSMUSG00000026203	Dnajb2	DnaJ (Hsp40) homolog, subfamily B, member 2	-0.588332365	0.000281799	0.002118046
ENSMUSG00000043164	Tmem212	transmembrane protein 212	Inf	0.000281953	0.002118112
ENSMUSG00000053746	Pth1	peptidyl-tRNA hydrolase 1 homolog (S. cerevisiae)	1.450622334	0.000282034	0.002118112
ENSMUSG00000048174	Tmem81	transmembrane protein 81	-0.663758476	0.00028197	0.002118112
ENSMUSG00000100599	1700120C14Rik	RIKEN cDNA 1700120C14 gene	-1.20561579	0.0002824	0.002120297
ENSMUSG00000104388	RP24-74O18.2		-0.616634807	0.000282706	0.002122028
ENSMUSG00000022894	Adamts5	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 5 (aggrecanase-2)	1.340973862	0.000283103	0.002124441
ENSMUSG00000028268	Gbp3	guanylate binding protein 3	-0.520197134	0.000285238	0.002139517
ENSMUSG00000056899	Imp2l	IMP2 inner mitochondrial membrane peptidase-like (S. cerevisiae)	-1.324977463	0.000285264	0.002139517
ENSMUSG00000029673	Aut2	autism susceptibility candidate 2	0.535291415	0.000285903	0.00214374
ENSMUSG00000063235	Ptpmt1	protein tyrosine phosphatase, mitochondrial 1	0.59412989	0.000288199	0.002159803
ENSMUSG00000049470	Aff4	AF4/FMR2 family, member 4	0.471721894	0.000288133	0.002159803
ENSMUSG00000029135	Fosl2	fos-like antigen 2	0.926031811	0.000288451	0.00216112
ENSMUSG00000028443	Nudt2	nudix (nucleoside diphosphate linked moiety X)-type motif 2	0.817972246	0.000288891	0.002163839
ENSMUSG00000000301	Pemt	phosphatidylethanolamine N-methyltransferase	1.344807566	0.000289108	0.002164756
ENSMUSG00000050248	Evc2	Ellis van Creveld syndrome 2	-0.802360519	0.000289168	0.002164756
ENSMUSG00000007216	Zfp775	zinc finger protein 775	-0.865280605	0.000289945	0.002169997
ENSMUSG00000021974	Fgf9	fibroblast growth factor 9	-2.161537506	0.000290156	0.002170998
ENSMUSG00000028564	Dusp27	dual specificity phosphatase 27 (putative)	-1.25184876	0.000290689	0.002174407
ENSMUSG00000002283	Pabpc1	poly(A) binding protein, cytoplasmic 1	0.524930146	0.000290954	0.002175811
ENSMUSG00000030557	Mef2a	myocyte enhancer factor 2A	0.504328654	0.000291186	0.002176973
ENSMUSG00000032840	2410131K14Rik	RIKEN cDNA 2410131K14 gene	-0.608867037	0.000291626	0.002179679
ENSMUSG00000040843	Tipr1	TIP41, TOR signalling pathway regulator-like (S. cerevisiae)	0.573169431	0.000291705	0.002179688
ENSMUSG00000067430	Zfp763	zinc finger protein 763	-0.54605909	0.000293585	0.00219316
ENSMUSG00000020883	Fbx20	F-box and leucine-rich repeat protein 20	-0.543515957	0.000294041	0.002195982
ENSMUSG00000031312	Itgb1bp2	integrin beta 1 binding protein 2	-1.559671749	0.000294547	0.002198589
ENSMUSG00000062785	Kcnc3	potassium voltage gated channel, Shaw-related subfamily, member 3	-2.294895923	0.000294474	0.002198589
ENSMUSG00000042109	Csdc2	cold shock domain containing C2, RNA binding	-1.790629849	0.000295768	0.002207118
ENSMUSG00000020227	Irak3	interleukin-1 receptor-associated kinase 3	-0.576385399	0.000295907	0.002207574
ENSMUSG00000058979	Cecr5	cat eye syndrome chromosome region, candidate 5	-0.564255849	0.000296192	0.002208526
ENSMUSG00000032120	C2cd2l	C2 calcium-dependent domain containing 2-like	-0.76916349	0.000296146	0.002208526
ENSMUSG00000019122	Ccl9	chemokine (C-C motif) ligand 9	1.276800782	0.000296582	0.002210846
ENSMUSG00000042744	Gm15800	predicted gene 15800	-0.529388572	0.000297852	0.002219726
ENSMUSG00000028212	Ccne2	cyclin E2	1.728247221	0.000297993	0.002220186
ENSMUSG00000027099	Mtx2	metaxin 2	0.579032698	0.00029985	0.002233437
ENSMUSG00000062519	Zfp398	zinc finger protein 398	-0.618864259	0.000300356	0.00223661
ENSMUSG00000009092	Smarcb1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1	0.566025186	0.000301365	0.00224294
ENSMUSG00000028801	Stpg1	sperm tail PG rich repeat containing 1	-4.474307005	0.00030135	0.00224294
ENSMUSG00000034647	Ankrd12	ankyrin repeat domain 12	-0.52548358	0.000302789	0.002252939
ENSMUSG00000055884	Fancm	Fanconi anemia, complementation group M	0.809953645	0.00030702	0.00228337
ENSMUSG00000024346	Pfnd1	prefoldin 1	0.576515416	0.000307041	0.00228337
ENSMUSG00000023826	Park2	Parkinson disease (autosomal recessive, juvenile) 2, parkin	-1.870220901	0.000307162	0.002283668
ENSMUSG00000031751	Amfr	autocrine motility factor receptor	0.496113259	0.0003081	0.002290033
ENSMUSG00000050558	Prokr2	prokineticin receptor 2	1.054111192	0.000308873	0.00229457
ENSMUSG00000030999	Ppp5c	protein phosphatase 5, catalytic subunit	0.537592334	0.000308842	0.00229457
ENSMUSG00000021710	Nin	neurolysin (metalloproteinase M3 family)	0.575688912	0.000310302	0.002303969
ENSMUSG00000021660	Btf3	basic transcription factor 3	0.540543624	0.000310247	0.002303969
ENSMUSG00000072653	Zfp783	zinc finger protein 783	-1.017745248	0.000311609	0.002313058
ENSMUSG00000028389	Zfp37	zinc finger protein 37	-0.589280495	0.000313141	0.002323821
ENSMUSG00000068105	Tnfrsf13c	tumor necrosis factor receptor superfamily, member 13c	-2.222627279	0.000313763	0.002327817
ENSMUSG00000050954	Zfp169	zinc finger protein 169	-0.596780108	0.000313976	0.002328786
ENSMUSG00000079334	Nat6	N-acetyltransferase 6	-1.208058147	0.000314771	0.002334068

ENSMUSG00000022562	Oplah	5-oxoprolinase (ATP-hydrolysing)	-1.096908432	0.000314868	0.002334174
ENSMUSG00000031453	Rasa3	RAS p21 protein activator 3	0.539927113	0.000316257	0.002343847
ENSMUSG00000008010	Gm11737	predicted gene 11737	-0.949067725	0.000316786	0.002347156
ENSMUSG00000026581	Sell	selectin, lymphocyte	-1.110312134	0.000320532	0.002374285
ENSMUSG00000014668	Chfr	checkpoint with forkhead and ring finger domains	0.541593353	0.000321123	0.002378034
ENSMUSG00000097769	Snhg4	small nucleolar RNA host gene 4	0.768175447	0.000321259	0.002378417
ENSMUSG00000038250	Usp38	ubiquitin specific peptidase 38	0.502217917	0.000322542	0.002387283
ENSMUSG00000028945	Rheb	Ras homolog enriched in brain	0.538885757	0.000324429	0.002400624
ENSMUSG00000030335	Mrp151	mitochondrial ribosomal protein L51	0.622890403	0.000325844	0.00241046
ENSMUSG00000024666	Tmem138	transmembrane protein 138	0.809608332	0.000326159	0.00241215
ENSMUSG00000022074	Tnfrsf10b	tumor necrosis factor receptor superfamily, member 10b	0.550015585	0.000327027	0.00241794
ENSMUSG00000001911	Nfix	nuclear factor I/X	-0.700817588	0.000328138	0.002424887
ENSMUSG00000070392	Gm20634	predicted gene 20634	-2.936062701	0.000328139	0.002424887
ENSMUSG00000022403	St13	suppression of tumorigenicity 13	0.564564455	0.000328529	0.002427127
ENSMUSG00000026956	Uap111	UDP-N-acetylglucosamine pyrophosphorylase 1-like 1	-0.758304071	0.000329171	0.002431231
ENSMUSG00000049134	Nrap	nebulin-related anchoring protein	-1.184669266	0.000330067	0.002437213
ENSMUSG00000037652	Phc3	polyhomeotic-like 3 (Drosophila)	-0.515286729	0.000330496	0.002439741
ENSMUSG00000038639	Nudt1	nudix (nucleoside diphosphate linked moiety X)-type motif 1	0.904716777	0.000333783	0.002463356
ENSMUSG00000020657	Dnajc27	DnaJ (Hsp40) homolog, subfamily C, member 27	-0.547864847	0.000334261	0.002466236
ENSMUSG00000033389	Arhgap44	Rho GTPase activating protein 44	-0.668478326	0.000334535	0.002467614
ENSMUSG00000078606	Gm4070	predicted gene 4070	-0.625439277	0.000336425	0.002480903
ENSMUSG00000056758	Hmga2	high mobility group AT-hook 2	5.192321681	0.000337045	0.002484824
ENSMUSG00000024095	Hnrnp11	heterogeneous nuclear ribonucleoprotein L-like	0.530093531	0.000337271	0.00248584
ENSMUSG000000085455	1810059H22Rik	RIKEN cDNA 1810059H22 gene	-1.959703839	0.000337622	0.002487777
ENSMUSG00000005262	Ufd1l	ubiquitin fusion degradation 1 like	0.516447856	0.000338802	0.002490051
ENSMUSG00000028646	Rragc	Ras-related GTP binding C	0.503179619	0.000339596	0.00250101
ENSMUSG00000015672	Mrp132	mitochondrial ribosomal protein L32	0.62550667	0.000340553	0.00250672
ENSMUSG00000047603	Zfp235	zinc finger protein 235	-0.635463659	0.000340629	0.00250672
ENSMUSG00000002871	Tpra1	transmembrane protein, adipocyte associated 1	-0.669209104	0.000340639	0.00250672
ENSMUSG00000043448	Gjc2	gap junction protein, gamma 2	-1.954409891	0.000341529	0.002512615
ENSMUSG000000039810	Zc3h10	zinc finger CCH type containing 10	-0.594741371	0.000342608	0.002519233
ENSMUSG00000042686	Jph1	junctophilin 1	-1.135695014	0.000342553	0.002519233
ENSMUSG00000034252	Senp6	SUMO/sentrin specific peptidase 6	0.519928718	0.000343631	0.002525434
ENSMUSG00000074629	4930518115Rik	RIKEN cDNA 4930518115 gene	-0.987106571	0.000343626	0.002525434
ENSMUSG000000021208	Ilf12712b	interferon, alpha-inducible protein 27 like 2B	1.947482642	0.000343854	0.002526413
ENSMUSG000000079555	Haus3	HAUS augmin-like complex, subunit 3	0.599724859	0.000345011	0.002534258
ENSMUSG00000030589	Rasgrp4	RAS guanyl releasing protein 4	-1.397682569	0.000346071	0.00254138
ENSMUSG000000041476	Smpx	small muscle protein, X-linked	-1.254858784	0.000348726	0.002559536
ENSMUSG000000054204	Fam150b	family with sequence similarity 150, member B	-1.732543563	0.00034867	0.002559536
ENSMUSG000000091017	Fam71a	family with sequence similarity 71, member A	-0.891565827	0.000348951	0.002560521
ENSMUSG000000034422	Parp14	poly (ADP-ribose) polymerase family, member 14	-0.489964583	0.000349528	0.002564086
ENSMUSG000000025198	Erlin1	ER lipid raft associated 1	0.638824525	0.000350627	0.002571478
ENSMUSG000000022462	Slc38a2	solute carrier family 38, member 2	0.708232074	0.000351288	0.002575657
ENSMUSG000000029219	Slc10a4	solute carrier family 10 (sodium/bile acid cotransporter family), member 4	-2.427581763	0.000351832	0.002578969
ENSMUSG000000022265	Ank	progressive ankylosis	-0.533444894	0.000352392	0.002582405
ENSMUSG000000069272	Hist1h2ae	histone cluster 1, H2ae	2.120336788	0.00035389	0.002591431
ENSMUSG000000023791	Pigx	phosphatidylinositol glycan anchor biosynthesis, class X	0.643169578	0.00035359	0.002591431
ENSMUSG00000017412	Cacnb4	calcium channel, voltage-dependent, beta 4 subunit	-0.937751069	0.00035359	0.002591431
ENSMUSG00000019986	Ahi1	Abelson helper integration site 1	0.656728238	0.000355241	0.002600571
ENSMUSG000000086596	Susd5	sushi domain containing 5	-0.743458131	0.000356599	0.002609835
ENSMUSG000000031758	Cdyl2	chromodomain protein, Y chromosome-like 2	0.567239512	0.000359055	0.002627128
ENSMUSG000000024937	Ehbp111	EH domain binding protein 1-like 1	-0.556169309	0.000360339	0.00263583
ENSMUSG00000025555	Farp1	FERM, RhoGEF (Arhgef) and pleckstrin domain protein 1 (chondrocyte-derived)	0.507019585	0.000360523	0.002636491
ENSMUSG00000040253	Gbp7	guanylate binding protein 7	-0.553685262	0.000361091	0.002638593
ENSMUSG000000045333	Zfp423	zinc finger protein 423	-0.661520971	0.00036108	0.002638593
ENSMUSG000000030616	Sytl2	synaptotagmin-like 2	-0.997337775	0.000360963	0.002638593
ENSMUSG00000015968	Cacna1d	calcium channel, voltage-dependent, L type, alpha 1D subunit	-0.874293702	0.000361274	0.002639246
ENSMUSG00000103443	RP23-82P18.4		-0.999199613	0.000361867	0.002642891
ENSMUSG000000042099	Kank3	KN motif and ankyrin repeat domains 3	-0.731229877	0.000362201	0.002644638
ENSMUSG00000103040	RP24-673J18.1		-3.750336819	0.000363909	0.00265642
ENSMUSG00000049690	Nckap5	NCK-associated protein 5	-1.410070187	0.000364928	0.00266317
ENSMUSG000000032177	Pde4a	phosphodiesterase 4A, cAMP specific	-0.944291941	0.000366069	0.002670805
ENSMUSG00000027276	Jag1	jagged 1	-0.483721206	0.000366794	0.002675398
ENSMUSG00000022367	Has2	hyaluronan synthase 2	1.794857287	0.000368612	0.002685872
ENSMUSG00000073489	Ilf1204	interferon activated gene 204	0.748559979	0.000368497	0.002685872
ENSMUSG000000087687	Pet100	PET100 homolog (S. cerevisiae)	0.644220653	0.000368569	0.002685872
ENSMUSG000000032381	Fam96a	family with sequence similarity 96, member A	0.597812824	0.000368568	0.002685872
ENSMUSG000000025529	Zfp711	zinc finger protein 711	0.703392483	0.000369478	0.002691486
ENSMUSG000000037712	Fermt2	fermitin family homolog 2 (Drosophila)	0.474087178	0.000369906	0.002693904
ENSMUSG00000039886	Tmem120a	transmembrane protein 120A	0.730711412	0.00037148	0.002704671
ENSMUSG000000026185	Igfbp5	insulin-like growth factor binding protein 5	1.16115862	0.000371834	0.002706546
ENSMUSG000000020115	Tbk1	TANK-binding kinase 1	0.482201411	0.000373271	0.002716307
ENSMUSG000000042492	Tbc1d10b	TBC1 domain family, member 10b	0.509332274	0.000375799	0.002733991

ENSMUSG00000058153	Sez6l	seizure related 6 homolog like	-2.902564806	0.000376925	0.002741478
ENSMUSG00000031551	Ido1	indoleamine 2,3-dioxygenase 1	-0.715787762	0.000377045	0.002741638
ENSMUSG000000024767	Otub1	OTU domain, ubiquitin aldehyde binding 1	0.556525954	0.000377906	0.002747192
ENSMUSG00000049191	Rgag4	retrotransposon gag domain containing 4	-0.856561387	0.000378494	0.002750757
ENSMUSG00000075569	Rsph10b	radial spoke head 10 homolog B (Chlamydomonas)	-1.490979516	0.000378858	0.002752689
ENSMUSG00000027566	PsmA7	proteasome (prosome, macropain) subunit, alpha type 7	0.501652793	0.000379957	0.002759959
ENSMUSG00000025900	Rp1	retinitis pigmentosa 1 (human)	-2.657551972	0.000380149	0.002760643
ENSMUSG000000046873	Mbtps2	membrane-bound transcription factor peptidase, site 2	0.555643764	0.000383452	0.00278391
ENSMUSG00000022503	Nubp1	nucleotide binding protein 1	0.569320881	0.000384478	0.002790641
ENSMUSG000000031644	Nek1	NIMA (never in mitosis gene a)-related expressed kinase 1	-0.536048789	0.000384583	0.002790684
ENSMUSG000000032496	Ltf	lactotransferrin	-2.066091165	0.000384849	0.002791894
ENSMUSG00000055639	Dach1	dachshund 1 (Drosophila)	0.526401479	0.000387178	0.002808066
ENSMUSG00000024007	Ppil1	peptidylprolyl isomerase (cyclophilin)-like 1	0.712037122	0.000388264	0.002815214
ENSMUSG00000098040	Gm20757	predicted gene, 20757	-3.223658455	0.000389037	0.002820089
ENSMUSG00000038416	Cdc16	CDC16 cell division cycle 16	0.542356412	0.000389445	0.002822323
ENSMUSG00000020952	Scfd1	Sec1 family domain containing 1	0.546334321	0.000390983	0.002832735
ENSMUSG00000100235	Gm28557	predicted gene 28557	-0.981008052	0.00039283	0.00284539
ENSMUSG00000036940	Kdm1a	lysine (K)-specific demethylase 1A	0.524972877	0.000393099	0.002846606
ENSMUSG00000031286	Git28d2	glycosyltransferase 28 domain containing 2	-0.815885456	0.000393275	0.002847146
ENSMUSG00000033589	Reep4	receptor accessory protein 4	0.71300274	0.000393634	0.002849012
ENSMUSG00000054079	Utp18	UTP18, small subunit (SSU) processome component, homolog (yeast)	0.575492731	0.000394003	0.002850556
ENSMUSG00000026926	Pmpca	peptidase (mitochondrial processing) alpha	0.539731602	0.00039405	0.002850556
ENSMUSG00000016427	Ndufa1	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1	0.596170669	0.000397405	0.002873709
ENSMUSG000000048218	Amigo2	adhesion molecule with Ig like domain 2	-0.585939415	0.000397455	0.002873709
ENSMUSG00000014030	Pax5	paired box 5	-1.754428907	0.000398397	0.002879779
ENSMUSG00000029596	Sds1	serine dehydratase-like	-2.310593727	0.000398664	0.002880971
ENSMUSG00000024339	Tap2	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	-0.878626386	0.000402375	0.002907043
ENSMUSG00000031937	Vstm5	V-set and transmembrane domain containing 5	-1.122988844	0.000404448	0.002921499
ENSMUSG00000043262	Uevld	UEV and lactate/malate dehydrogenase domains	0.674286665	0.00040638	0.002934465
ENSMUSG00000085322	Gm14261	predicted gene 14261	-1.975078817	0.000406508	0.002934637
ENSMUSG00000022146	Osmr	oncostatin M receptor	-0.506716561	0.00040764	0.002942057
ENSMUSG00000022817	Itgb5	integrin beta 5	-0.764552227	0.000408683	0.002948828
ENSMUSG00000021481	Zfp346	zinc finger protein 346	-0.540587871	0.000408847	0.002949255
ENSMUSG00000025192	Entpd7	ectonucleoside triphosphate diphosphohydrolase 7	0.606858788	0.000408969	0.002949375
ENSMUSG00000084823	Gm17216	predicted gene 17216	-2.250856969	0.000409411	0.002951812
ENSMUSG00000075033	Nxpe3	neurexophilin and PC-esterase domain family, member 3	-0.939795613	0.000409847	0.002954194
ENSMUSG00000032112	Trappc4	trafficking protein particle complex 4	0.525907806	0.000412972	0.002975957
ENSMUSG00000059659	Gm10069	predicted gene 10069	-1.408936616	0.000413335	0.002977814
ENSMUSG00000021687	Scamp1	secretory carrier membrane protein 1	0.494638338	0.000413633	0.002979192
ENSMUSG00000025804	Ccr1	chemokine (C-C motif) receptor 1	1.077705618	0.000413748	0.00297926
ENSMUSG00000005951	Rps3a3	ribosomal protein S3A3	-2.083992991	0.000413949	0.002979948
ENSMUSG00000041654	Slc39a11	solute carrier family 39 (metal ion transporter), member 11	0.593170439	0.000414383	0.002982309
ENSMUSG000000064262	Gimap8	GTPase, IMAP family member 8	0.505654318	0.000416037	0.002993443
ENSMUSG00000030067	Foxp1	forkhead box P1	-0.529701369	0.000417362	0.003002209
ENSMUSG00000021662	Arhgef28	Rho guanine nucleotide exchange factor (GEF) 28	0.510999955	0.000417651	0.003003521
ENSMUSG00000044700	Tmem201	transmembrane protein 201	-0.626857464	0.000418573	0.003009383
ENSMUSG00000031070	Mrgprf	MAS-related GPR, member F	-0.916780961	0.000419239	0.003013403
ENSMUSG00000042961	Egflam	EGF-like, fibronectin type III and laminin G domains	-0.640125837	0.000419433	0.003014023
ENSMUSG00000043421	Hilpda	hypoxia inducible lipid droplet associated	1.449618817	0.000419866	0.003016367
ENSMUSG00000024598	Fbn2	fibillin 2	1.047805334	0.0004203	0.003018715
ENSMUSG00000057143	Trim12c	tripartite motif-containing 12C	-0.59440142	0.000421263	0.003024859
ENSMUSG00000020184	Mdm2	transformed mouse 3T3 cell double minute 2	0.491411321	0.000423134	0.003037515
ENSMUSG00000021033	Gstz1	glutathione transferase zeta 1 (maleylacetoacetate isomerase)	-0.642048124	0.000424817	0.003048822
ENSMUSG00000001333	Sync	syncollin	-1.266966656	0.0004255	0.003052945
ENSMUSG00000000861	Bcl11a	B cell CLL/lymphoma 11A (zinc finger protein)	-1.28969044	0.000426351	0.003058267
ENSMUSG00000002064	Sdf2	stromal cell derived factor 2	0.531461308	0.000427561	0.003066165
ENSMUSG00000029238	Clock	circadian locomotor output cycles kaput	0.703100461	0.000428717	0.003073673
ENSMUSG00000022836	Myik	myosin, light polypeptide kinase	-0.572785454	0.000429272	0.003076868
ENSMUSG00000030782	Tgfb11	transforming growth factor beta 1 induced transcript 1	0.497317952	0.000430532	0.003085111
ENSMUSG00000060803	Gstp1	glutathione S-transferase, pi 1	-0.637783086	0.000431961	0.003094565
ENSMUSG00000028343	Etp44	endoplasmic reticulum protein 44	0.534222643	0.000432714	0.003099167
ENSMUSG00000028382	Ptbp3	polypyrimidine tract binding protein 3	0.496406844	0.000432986	0.003100329
ENSMUSG00000001507	Itga3	integrin alpha 3	2.375859784	0.000433326	0.003101978
ENSMUSG00000086247	Gm15787	predicted gene 15787	-1.267401141	0.000434449	0.003109224
ENSMUSG00000101724	Gm29453	predicted gene 29453	0.87954308	0.00043516	0.003113435
ENSMUSG00000000339	Rtca	RNA 3'-terminal phosphate cyclase	0.534936563	0.000435259	0.003113435
ENSMUSG00000058385	Hist1h2bg	histone cluster 1, H2bg	1.281218292	0.000437373	0.003127762
ENSMUSG00000057236	Rbbp4	retinoblastoma binding protein 4	0.530766968	0.000437825	0.003130195
ENSMUSG00000073436	Eme2	essential meiotic endonuclease 1 homolog 2 (S. pombe)	-0.566154723	0.000438814	0.003136471
ENSMUSG00000048148	Nwd1	NACHT and WD repeat domain containing 1	-1.931868828	0.000440352	0.003146668
ENSMUSG00000070867	Trabd2b	TraB domain containing 2B	-0.809045226	0.000440997	0.003150475
ENSMUSG00000020085	Aifm2	apoptosis-inducing factor, mitochondrion-associated 2	-0.658071463	0.000444896	0.003177525
ENSMUSG00000027630	Tbl1xr1	transducin (beta)-like 1X-linked receptor 1	0.523363539	0.00044504	0.00317774

ENSMUSG00000057421	Las1l	LAS1-like (S. cerevisiae)	-0.555377546	0.000445516	0.003180333
ENSMUSG00000073008	Gpr174	G protein-coupled receptor 174	-1.622121232	0.000448796	0.003202939
ENSMUSG00000028378	Ptgr1	prostaglandin reductase 1	0.914668532	0.000450617	0.003215118
ENSMUSG00000015932	Dstn	destrin	0.499561752	0.000451331	0.003219394
ENSMUSG00000030468	Siglecg	sialic acid binding Ig-like lectin G	-1.252104122	0.000452129	0.003224273
ENSMUSG00000026960	Arf6ip6	ADP-ribosylation factor-like 6 interacting protein 6	0.588161876	0.000452603	0.003225194
ENSMUSG00000070426	Rnf121	ring finger protein 121	0.573139599	0.000452502	0.003225194
ENSMUSG00000024242	Map4k3	mitogen-activated protein kinase kinase kinase 3	0.470547353	0.0004524	0.003225194
ENSMUSG00000022099	Dmtn	dematin actin binding protein	-0.640575862	0.000453859	0.003233326
ENSMUSG00000054978	Kbtbd13	kelch repeat and BTB (POZ) domain containing 13	-1.029178525	0.00045713	0.00325581
ENSMUSG00000039682	Lap3	leucine aminopeptidase 3	0.556119061	0.000460047	0.003274924
ENSMUSG00000097588	Gm17388	predicted gene, 17388	-0.840000052	0.000459989	0.003274924
ENSMUSG00000021234	Fam161b	family with sequence similarity 161, member B	-0.656574513	0.000461108	0.003280818
ENSMUSG00000054072	Ilgp1	interferon inducible GTPase 1	-0.661022976	0.000461028	0.003280818
ENSMUSG00000060441	Trim5	tripartite motif-containing 5	-0.768930028	0.000461296	0.003281328
ENSMUSG00000031697	Orc6	origin recognition complex, subunit 6	0.598610819	0.000462398	0.003288335
ENSMUSG00000023249	Parp3	poly (ADP-ribose) polymerase family, member 3	0.536725394	0.000462944	0.003291386
ENSMUSG00000021987	Mtmr6	myotubularin related protein 6	0.489776677	0.00046371	0.003295994
ENSMUSG00000024127	Prepl	prolyl endopeptidase-like	-0.573609135	0.000464507	0.003300824
ENSMUSG00000086782	E130102H24Rik	RIKEN cDNA E130102H24 gene	-0.732070696	0.000466217	0.003312139
ENSMUSG00000026764	Kif5c	kinesin family member 5C	-1.199700903	0.000466494	0.003313276
ENSMUSG00000021794	Glud1	glutamate dehydrogenase 1	0.510836311	0.000466627	0.003313381
ENSMUSG00000058799	Nap11l	nucleosome assembly protein 1-like 1	0.563350549	0.000466937	0.003314747
ENSMUSG00000033220	Rac2	RAS-related C3 botulinum substrate 2	-0.99058834	0.000468029	0.003321658
ENSMUSG00000072694	1500011B03Rik	RIKEN cDNA 1500011B03 gene	0.816182037	0.00046963	0.003332181
ENSMUSG00000021552	Gkap1	G kinase anchoring protein 1	0.592208145	0.000471253	0.003342652
ENSMUSG00000027016	Zfp385b	zinc finger protein 385B	-2.197679088	0.000471343	0.003342652
ENSMUSG00000015652	Steap1	six transmembrane epithelial antigen of the prostate 1	4.974505792	0.000474054	0.003359337
ENSMUSG00000029780	Nt5c3	5'-nucleotidase, cytosolic III	0.558709999	0.00047402	0.003359337
ENSMUSG00000020894	Vamp2	vesicle-associated membrane protein 2	-0.570670734	0.000473991	0.003359337
ENSMUSG00000027680	Fxr1	fragile X mental retardation gene 1, autosomal homolog	0.508311151	0.00047469	0.003362996
ENSMUSG00000021932	Rnaseh2b	ribonuclease H2, subunit B	0.634584474	0.000475864	0.003370463
ENSMUSG00000067297	2010002M12Rik	RIKEN cDNA 2010002M12 gene	-1.219243566	0.000477101	0.003378377
ENSMUSG00000043432	Leng9	leukocyte receptor cluster (LRC) member 9	-0.713857821	0.000479527	0.003394696
ENSMUSG00000035152	Ap2b1	adaptor-related protein complex 2, beta 1 subunit	0.501768301	0.000480246	0.003398933
ENSMUSG00000038541	Srd5a2	steroid 5 alpha-reductase 2	-3.689845278	0.000481022	0.003403569
ENSMUSG00000005615	Pcyt1a	phosphate cytidylyltransferase 1, choline, alpha isoform	0.503411151	0.000481274	0.003404498
ENSMUSG00000062515	Fabp4	fatty acid binding protein 4, adipocyte	0.631921148	0.000483367	0.003418444
ENSMUSG00000025887	Casp12	caspase 12	-0.518786468	0.000486999	0.003443326
ENSMUSG00000095440	Fignl2	fidgin-like 2	-0.668967999	0.000487953	0.003449143
ENSMUSG00000092609	Gm20481	predicted gene 20481	-1.514590849	0.000488903	0.003454989
ENSMUSG00000005370	Msh6	mutS homolog 6 (E. coli)	0.612529036	0.000489417	0.003457754
ENSMUSG00000026426	Ari8a	ADP-ribosylation factor-like 8A	0.501097858	0.000489784	0.003459475
ENSMUSG00000031230	Fgf16	fibroblast growth factor 16	-1.533492654	0.000490508	0.003463724
ENSMUSG00000058571	Gpc6	glypican 6	-0.59032732	0.00049076	0.003464628
ENSMUSG00000028536	Mnda	myeloid cell nuclear differentiation antigen	0.885065431	0.00049233	0.00347484
ENSMUSG00000039958	Mettl20	methyltransferase like 20	-0.793003051	0.000498452	0.00351717
ENSMUSG00000021575	Ahr	aryl-hydrocarbon receptor repressor	-1.677220828	0.000499006	0.003520195
ENSMUSG00000037816	Fbxw17	F-box and WD-40 domain protein 17	0.611013463	0.000499894	0.003525576
ENSMUSG00000036381	P2ry14	purinergic receptor P2Y, G-protein coupled, 14	-0.852130684	0.000501306	0.003534648
ENSMUSG00000032528	Vipr1	vasoactive intestinal peptide receptor 1	-0.827353299	0.000501876	0.003537782
ENSMUSG00000021943	Gdf10	growth differentiation factor 10	-1.109056972	0.000503479	0.003548187
ENSMUSG00000069763	Tmem100	transmembrane protein 100	-1.347228049	0.000504209	0.003552444
ENSMUSG00000029603	Dtx1	deltex 1 homolog (Drosophila)	-2.081647495	0.000505625	0.003561527
ENSMUSG00000021040	Slirp	SRA stem-loop interacting RNA binding protein	0.57290973	0.000506667	0.003567977
ENSMUSG00000060429	Sntb1	syntrophin, basic 1	-0.510904733	0.000507045	0.003569744
ENSMUSG00000013160	Atp6v0d1	ATPase, H+ transporting, lysosomal V0 subunit D1	0.507907559	0.000507975	0.00357384
ENSMUSG00000064370	mt-Cytb	mitochondrially encoded cytochrome b	-0.48557994	0.000507795	0.00357384
ENSMUSG00000056055	Sag	S-antigen, retina and pineal gland (arrestin)	-1.127277592	0.000508008	0.00357384
ENSMUSG00000053886	Sh2d4a	SH2 domain containing 4A	-1.887022974	0.000508345	0.00357532
ENSMUSG00000049327	Setd8	SET domain containing (lysine methyltransferase) 8	0.629594855	0.000508905	0.003578364
ENSMUSG00000038127	Ccdc50	coiled-coil domain containing 50	0.501114415	0.000510304	0.003587304
ENSMUSG00000035297	Cops4	COP9 (constitutive photomorphogenic) homolog, subunit 4 (Arabidopsis thaliana)	0.518837123	0.000511402	0.003593222
ENSMUSG00000036459	Wtip	WT1-interacting protein	-0.69194828	0.00051135	0.003593222
ENSMUSG00000028631	Kcnq4	potassium voltage-gated channel, subfamily Q, member 4	-0.848861717	0.000511573	0.003593528
ENSMUSG00000054408	Spcs3	signal peptidase complex subunit 3 homolog (S. cerevisiae)	0.526959156	0.000512081	0.003596197
ENSMUSG00000030059	Tmf1	TATA element modulatory factor 1	0.48887604	0.000512395	0.003597509
ENSMUSG00000103683	AC127262.1		-1.478007305	0.000515288	0.003616916
ENSMUSG00000037406	Htra4	HtrA serine peptidase 4	-1.341348818	0.000516256	0.003622806
ENSMUSG00000039463	Sic9a8	solute carrier family 9 (sodium/hydrogen exchanger), member 8	-0.56260181	0.00051817	0.003635329
ENSMUSG00000047434	Xxyt1	xyloside xylosyltransferase 1	0.539631538	0.000518325	0.003635513
ENSMUSG00000050921	P2ry10	purinergic receptor P2Y, G-protein coupled 10	-1.118959044	0.000518793	0.00363789
ENSMUSG00000030257	Srgap3	SLIT-ROBO Rho GTPase activating protein 3	0.74362444	0.000519429	0.003641437

ENSMUSG0000099881	2810013P06Rik	RIKEN cDNA 2810013P06 gene	-0.577807692	0.000520061	0.00364496
ENSMUSG00000041889	Shisa4	shisa family member 4	1.025051636	0.000520555	0.003647518
ENSMUSG00000001627	lfrd1	interferon-related developmental regulator 1	0.56114296	0.000521658	0.003654333
ENSMUSG00000020553	Pctp	phosphatidylcholine transfer protein	-0.683515473	0.000522649	0.003660363
ENSMUSG000000086742	Gm16201	predicted gene 16201	-1.499376497	0.000524276	0.003670845
ENSMUSG00000027845	Dclre1b	DNA cross-link repair 1B, PSO2 homolog (S. cerevisiae)	0.647119901	0.000525331	0.003677732
ENSMUSG00000026726	Cubn	cubilin (intrinsic factor-cobalamin receptor)	0.910308554	0.00052626	0.003682905
ENSMUSG000000031634	Ufsp2	UFM1-specific peptidase 2	0.573597029	0.000526798	0.00368575
ENSMUSG00000020684	Rasi10b	RAS-like, family 10, member B	-1.469567483	0.000528073	0.003693754
ENSMUSG00000028560	Usp1	ubiquitin specific peptidase 1	0.653173783	0.000528716	0.003697332
ENSMUSG00000031782	Coq9	coenzyme Q9 homolog (yeast)	-0.541620949	0.000531226	0.003713962
ENSMUSG000000051355	Comm1	COMM domain containing 1	0.578780143	0.000533677	0.003730169
ENSMUSG00000040025	Ythdf2	YTH domain family 2	0.531594032	0.000534761	0.003736821
ENSMUSG000000021285	Ppp1r13b	protein phosphatase 1, regulatory (inhibitor) subunit 13B	0.477543521	0.000536634	0.003748976
ENSMUSG000000029605	Oas1b	2'-5' oligoadenylate synthetase 1B	-0.555087486	0.000537525	0.003754266
ENSMUSG000000055296	Tmem245	transmembrane protein 245	-0.509567904	0.000537744	0.003754864
ENSMUSG00000103778	RP23-303M15.7		-1.250409134	0.000537933	0.003755255
ENSMUSG00000042485	Mustn1	musculoskeletal, embryonic nuclear protein 1	-0.636314639	0.000539619	0.003766087
ENSMUSG00000033917	Gde1	glycerophosphodiester phosphodiesterase 1	0.520490537	0.000540102	0.003767588
ENSMUSG00000022053	Ebf2	early B cell factor 2	-0.61327397	0.000540062	0.003767588
ENSMUSG000000027007	Ssf2	sperm specific antigen 2	-0.505458961	0.000541793	0.003778446
ENSMUSG000000097736	9530059O14Rik	RIKEN cDNA 9530059O14 gene	3.96562169	0.000542863	0.003784384
ENSMUSG00000044795	Cyb5d1	cytochrome b5 domain containing 1	-0.624017371	0.000542913	0.003784384
ENSMUSG000000031523	Dlc1	deleted in liver cancer 1	-0.523509295	0.0005434	0.003786841
ENSMUSG00000030042	Pole4	polymerase (DNA-directed), epsilon 4 (p12 subunit)	0.620261778	0.000544077	0.003790621
ENSMUSG000000051977	Prdm9	PR domain containing 9	-0.774329545	0.000544349	0.003791573
ENSMUSG000000044071	Fam19a2	family with sequence similarity 19, member A2	4.87063067	0.000545928	0.003801163
ENSMUSG00000029994	Anxa4	annexin A4	0.527797564	0.000547823	0.003813884
ENSMUSG000000093277	Gm26236	predicted gene, 26236	-1.042605352	0.000549432	0.003824141
ENSMUSG000000056014	A430033K04Rik	RIKEN cDNA A430033K04 gene	-0.532452178	0.000550014	0.003827243
ENSMUSG000000009418	Nav1	neuron navigator 1	0.478800563	0.000551254	0.003834924
ENSMUSG00000001349	Cnn1	calponin 1	-0.798079302	0.000552339	0.003841521
ENSMUSG00000060923	Acyp2	acylphosphatase 2, muscle type	0.771716983	0.000554444	0.003855205
ENSMUSG000000046610	Oacyl	O-acyltransferase like	2.552086517	0.000555558	0.003860968
ENSMUSG00000039831	Arhgap29	Rho GTPase activating protein 29	0.462200685	0.000555619	0.003860968
ENSMUSG000000103585	Pcdhgb4	protocadherin gamma subfamily B, 4	-0.555991716	0.00055569	0.003860968
ENSMUSG00000015488	Cacfd1	calcium channel flower domain containing 1	-0.708465562	0.000555941	0.003860968
ENSMUSG000000025545	Clybl	citrate lyase beta like	-0.869273203	0.000555959	0.003860968
ENSMUSG000000061950	Ppp4r1	protein phosphatase 4, regulatory subunit 1	0.476388061	0.000558191	0.003875517
ENSMUSG000000085030	2810455O05Rik	RIKEN cDNA 2810455O05 gene	1.44782187	0.00055866	0.003877815
ENSMUSG000000033006	Sox10	SRY (sex determining region Y)-box 10	-1.949685622	0.000559029	0.003879421
ENSMUSG00000024334	H2-Oa	histocompatibility 2, O region alpha locus	-2.093343572	0.000560136	0.003886144
ENSMUSG000000004631	Sgce	sarcoglycan, epsilon	0.493960815	0.000560579	0.00388826
ENSMUSG00000103291	RP24-92A2.1		-0.60464266	0.000561549	0.003894028
ENSMUSG000000045350	Fam186a	family with sequence similarity 186, member A	-2.461087519	0.000562264	0.003898021
ENSMUSG00000029462	Vps29	vacuolar protein sorting 29 (S. pombe)	0.512844193	0.000563525	0.003905801
ENSMUSG000000097088	Gm26615	predicted gene, 26615	-1.366265989	0.000563921	0.003907581
ENSMUSG000000020706	Ftsj3	FtsJ homolog 3 (E. coli)	0.532855552	0.00056446	0.003910352
ENSMUSG000000021518	Ptdss1	phosphatidylserine synthase 1	0.513630864	0.000565693	0.00391793
ENSMUSG000000043496	Tril	TLR4 interactor with leucine-rich repeats	-0.487596834	0.000566308	0.003921227
ENSMUSG00000025512	Chid1	chitinase domain containing 1	-0.533795737	0.000566785	0.003923564
ENSMUSG000000066705	Fxyd6	FXYD domain-containing ion transport regulator 6	0.513265817	0.000568109	0.003930796
ENSMUSG000000096929	A330023F24Rik	RIKEN cDNA A330023F24 gene	-0.98910966	0.000568073	0.003930796
ENSMUSG00000040661	Rad54l2	RAD54 like 2 (S. cerevisiae)	0.486906821	0.000570361	0.003945404
ENSMUSG000000021587	Pcsk1	proprotein convertase subtilisin/kexin type 1	1.141235052	0.00057072	0.003946922
ENSMUSG000000054931	Zkscan4	zinc finger with KRAB and SCAN domains 4	-0.954059363	0.000571621	0.003952178
ENSMUSG000000078773	Rad54b	RAD54 homolog B (S. cerevisiae)	2.127499217	0.000573663	0.003965323
ENSMUSG000000041957	Pkp2	plakophilin 2	-1.353295671	0.000573845	0.003965608
ENSMUSG000000040584	Abcb1a	ATP-binding cassette, sub-family B (MDR/TAP), member 1A	-0.507335163	0.000575425	0.003974573
ENSMUSG00000103123	RP24-74O18.3		-0.62496163	0.000575414	0.003974573
ENSMUSG000000039987	Phf2	putative homeodomain transcription factor 2	-0.53974344	0.000575815	0.003976292
ENSMUSG000000033352	Map2k4	mitogen-activated protein kinase kinase 4	0.494020709	0.000576682	0.003981298
ENSMUSG000000058729	Lin9	lin-9 homolog (C. elegans)	0.936845327	0.000577033	0.003982745
ENSMUSG000000025967	Eef1b2	eukaryotic translation elongation factor 1 beta 2	0.4856195	0.000578135	0.003989374
ENSMUSG000000038429	Usp5	ubiquitin specific peptidase 5 (isopeptidase T)	0.495731891	0.000579246	0.003996057
ENSMUSG000000029381	Shroom3	shroom family member 3	2.029082528	0.000580004	0.004000555
ENSMUSG000000038886	Man2a2	mannosidase 2, alpha 2	0.472269517	0.000582832	0.004018828
ENSMUSG000000049353	Rd3	retinal degeneration 3	-1.293276165	0.000583715	0.004023929
ENSMUSG000000053253	Ndfip2	Nedd4 family interacting protein 2	0.494319859	0.0005845	0.004028355
ENSMUSG00000100829	Gm29510	predicted gene 29510	-1.260619473	0.000584909	0.004030183
ENSMUSG000000029265	Dr1	down-regulator of transcription 1	0.53500772	0.00058638	0.004038343
ENSMUSG000000024750	Zfand5	zinc finger, AN1-type domain 5	0.480419702	0.000586298	0.004038343
ENSMUSG000000062563	Cys1	cystin 1	-1.369685888	0.000588845	0.004054323

ENSMUSG0000040247	Tbc1d10c	TBC1 domain family, member 10c	-1.19346418	0.000589009	0.004054465
ENSMUSG0000032602	Slc25a20	solute carrier family 25 (mitochondrial carnitine/acylcarnitine translocase), member 20	0.4861105109	0.000589671	0.004058026
ENSMUSG0000023075	Akirin1	akirin 1	0.51757682	0.000590707	0.004064163
ENSMUSG0000060260	Pwwp2b	PWWP domain containing 2B	-0.62443599	0.000592109	0.00407281
ENSMUSG0000023883	Phf10	PHD finger protein 10	0.518024118	0.000592717	0.004075999
ENSMUSG0000022913	Psmg1	proteasome (prosome, macropain) assembly chaperone 1	0.656121279	0.000593498	0.004079824
ENSMUSG0000065460	Mir133a-2	microRNA 133a-2	-2.506994431	0.000593563	0.004079824
ENSMUSG0000059142	Zfp945	zinc finger protein 945	-0.514676119	0.000595311	0.004090834
ENSMUSG0000002781	Tmem143	transmembrane protein 143	-0.899929848	0.00059855	0.004112087
ENSMUSG0000050244	Heatr1	HEAT repeat containing 1	0.554812758	0.000599744	0.004118834
ENSMUSG0000099757	BE692007	expressed sequence BE692007	-1.355243903	0.000599825	0.004118834
ENSMUSG0000015575	Atp6v0e	ATPase, H+ transporting, lysosomal V0 subunit E	0.496551724	0.000600568	0.004122931
ENSMUSG0000043644	O610009L18Rik	RIKEN cDNA O610009L18 gene	-1.183892168	0.000603345	0.004140988
ENSMUSG0000027863	Cd2	CD2 antigen	-1.08418423	0.000604138	0.00414542
ENSMUSG0000059439	Bcas3	breast carcinoma amplified sequence 3	-0.555141437	0.00060432	0.004145653
ENSMUSG0000021368	Tbc1d7	TBC1 domain family, member 7	0.730287495	0.000604975	0.004149138
ENSMUSG0000022634	Yaf2	YY1 associated factor 2	0.542308644	0.000606035	0.004155393
ENSMUSG0000031609	Sap30	sin3 associated polypeptide	0.681488448	0.000606185	0.004155411
ENSMUSG0000045064	Zc2hc1c	zinc finger, C2HC-type containing 1C	-1.240005478	0.000609034	0.004173924
ENSMUSG0000097122	Gm26624	predicted gene, 26624	-0.881520019	0.000613077	0.004200605
ENSMUSG0000055435	Maf	avian musculoaponeurotic fibrosarcoma (v-maf) AS42 oncogene homolog	-0.716857474	0.000615143	0.00421374
ENSMUSG0000001942	Siae	sialic acid acetyltransferase	-0.516938882	0.000619484	0.004242441
ENSMUSG0000006471	Ndor1	NADPH dependent diflavin oxidoreductase 1	-0.557604959	0.00062092	0.004251242
ENSMUSG0000033793	Atp6v1h	ATPase, H+ transporting, lysosomal V1 subunit H	0.498246827	0.000621529	0.004254376
ENSMUSG0000054404	Slnf5	schlafen 5	-0.520128392	0.000625492	0.004280457
ENSMUSG0000032353	Tmed3	transmembrane emp24 domain containing 3	0.520079335	0.000627002	0.004289748
ENSMUSG0000034656	Cacna1a	calcium channel, voltage-dependent, P/Q type, alpha 1A subunit	-0.966137085	0.000627719	0.004293607
ENSMUSG0000068794	Col28a1	collagen, type XXVIII, alpha 1	2.679344825	0.000628751	0.004299622
ENSMUSG0000033752	Mnd1	meiotic nuclear divisions 1 homolog (S. cerevisiae)	1.571061549	0.000628932	0.004299817
ENSMUSG0000087611	4930458D05Rik	RIKEN cDNA 4930458D05 gene	-1.670264346	0.000631783	0.00431826
ENSMUSG0000023025	Larp4	La ribonucleoprotein domain family, member 4	0.520119178	0.000631943	0.0043183
ENSMUSG0000036432	Siah2	seven in absentia 2	0.576752614	0.000632587	0.004321656
ENSMUSG0000016619	Nup50	nucleoporin 50	0.548039118	0.000635863	0.00434298
ENSMUSG0000038522	Al317395	expressed sequence Al317395	-1.787564752	0.000637692	0.004354416
ENSMUSG0000024486	Hbegf	heparin-binding EGF-like growth factor	0.64981646	0.000637918	0.004354903
ENSMUSG0000031367	Ap1s2	adaptor-related protein complex 1, sigma 2 subunit	0.635425116	0.000639056	0.004361613
ENSMUSG0000022246	Rai14	retinoic acid induced 14	0.485008526	0.00063924	0.004361808
ENSMUSG0000027206	Cops2	COP9 (constitutive photomorphogenic) homolog, subunit 2 (Arabidopsis thaliana)	0.504735237	0.000640249	0.004367635
ENSMUSG0000040822	1700123O20Rik	RIKEN cDNA 1700123O20 gene	0.556151073	0.000642774	0.004382735
ENSMUSG0000019066	Rab3d	RAB3D, member RAS oncogene family	-0.500453578	0.000642642	0.004382735
ENSMUSG0000074358	Ccdc61	coiled-coil domain containing 61	-0.717666048	0.000642958	0.004382923
ENSMUSG0000024379	Tslp	thymic stromal lymphopoietin	1.31133019	0.000643696	0.004386258
ENSMUSG0000022247	Brix1	BRX1, biogenesis of ribosomes, homolog (S. cerevisiae)	0.630856453	0.000643759	0.004386258
ENSMUSG0000054115	Skp2	S-phase kinase-associated protein 2 (p45)	0.996420375	0.000644071	0.004387321
ENSMUSG0000028600	Podn	podocan	-1.421022384	0.000644244	0.004387439
ENSMUSG0000020873	Slc35b1	solute carrier family 35, member B1	0.526832755	0.000644557	0.004388508
ENSMUSG0000031483	Erlin2	ER lipid raft associated 2	0.508630996	0.000646918	0.004403519
ENSMUSG0000041650	Pcca	propionyl-Coenzyme A carboxylase, alpha polypeptide	-0.602237822	0.000647619	0.004407227
ENSMUSG0000026219	Trip12	thyroid hormone receptor interactor 12	0.481618488	0.000648487	0.004412061
ENSMUSG0000091764	Zfp964	zinc finger protein 964	-1.008247245	0.000648765	0.004412886
ENSMUSG0000030930	Chst15	carbohydrate (N-acetylgalactosamine 4-sulfate 6-O) sulfotransferase 15	-0.489555696	0.000650835	0.004425899
ENSMUSG0000025912	Mybl1	myeloblastosis oncogene-like 1	1.162141267	0.000651484	0.004429243
ENSMUSG00000100937	1700020D05Rik	RIKEN cDNA 1700020D05 gene	-1.212726817	0.000651966	0.004431448
ENSMUSG0000071516	Hist1h2ai	histone cluster 1, H2ai	1.893778708	0.000652275	0.004432476
ENSMUSG0000052812	Atad2b	ATPase family, AAA domain containing 2B	0.521743639	0.000655302	0.004450897
ENSMUSG0000031924	Cyb5b	cytochrome b5 type B	0.50249139	0.000655157	0.004450897
ENSMUSG0000039501	Znfx1	zinc finger, NFX1-type containing 1	-0.489058498	0.000659369	0.004477435
ENSMUSG0000037846	Rtkn2	rhotein 2	0.932399707	0.000660151	0.004481667
ENSMUSG0000050919	Zfp366	zinc finger protein 366	-0.449581842	0.000661094	0.004486985
ENSMUSG0000065544	Mir32	microRNA 32	-3.865527302	0.000661673	0.004489835
ENSMUSG0000038080	Kdm1b	lysine (K)-specific demethylase 1B	-0.499991098	0.000662151	0.004491994
ENSMUSG0000042302	Ehbp1	EH domain binding protein 1	-0.681935609	0.000662347	0.004492242
ENSMUSG0000033249	Hsf4	heat shock transcription factor 4	-1.414692367	0.000662875	0.004494737
ENSMUSG0000067219	Nipa1	NIPA-like domain containing 1	3.727563951	0.000664381	0.004503863
ENSMUSG0000001910	Nacc1	nucleus accumbens associated 1, BEN and BTB (POZ) domain containing	0.495807737	0.000667926	0.004526802
ENSMUSG0000020074	Ccar1	cell division cycle and apoptosis regulator 1	0.485370252	0.000670308	0.004541853
ENSMUSG0000021763	BC067074	cDNA sequence BC067074	-1.752367507	0.000671299	0.004547471
ENSMUSG0000037062	Sh3glb1	SH3-domain GRB2-like B1 (endophilin)	0.474208116	0.000671883	0.004550331
ENSMUSG0000050965	Prkca	protein kinase C, alpha	0.591545158	0.00067455	0.004566809
ENSMUSG0000054622	D730045B01Rik	RIKEN cDNA D730045B01 gene	-0.969536814	0.00067464	0.004566809
ENSMUSG0000099517	Hist1h3g	histone cluster 1, H3g	2.132466924	0.000675318	0.004570295
ENSMUSG0000079444	Gm21981	predicted gene 21981	-2.5819523	0.000677651	0.00458498
ENSMUSG0000027164	Traf6	TNF receptor-associated factor 6	0.470123904	0.000681102	0.004607226

ENSMUSG0000026792	Lrsam1	leucine rich repeat and sterile alpha motif containing 1	-0.555184248	0.000683598	0.004622998
ENSMUSG0000069565	Dazap1	DAZ associated protein 1	0.503780255	0.000685608	0.004635478
ENSMUSG0000097858	9530052C20Rik	RIKEN cDNA 9530052C20 gene	1.530916396	0.000688607	0.004654635
ENSMUSG0000092051	Gm17229	predicted gene 17229	-1.954372604	0.00068916	0.004657253
ENSMUSG0000040717	Il17rd	interleukin 17 receptor D	-0.510351082	0.000690974	0.004667265
ENSMUSG0000035448	Ccr3	chemokine (C-C motif) receptor 3	-3.054889733	0.000690962	0.004667265
ENSMUSG0000072769	Gm10419	predicted gene 10419	-2.663612649	0.000691413	0.004669113
ENSMUSG0000097944	A130014A01Rik	RIKEN cDNA A130014A01 gene	-0.785268518	0.000693523	0.004682239
ENSMUSG0000025094	Sic18a2	solute carrier family 18 (vesicular monoamine), member 2	-1.050209055	0.000693723	0.004682461
ENSMUSG0000022469	Rapgef3	Rap guanine nucleotide exchange factor (GEF) 3	-0.792613797	0.000696365	0.004699172
ENSMUSG0000020091	Eif4ebp2	eukaryotic translation initiation factor 4E binding protein 2	-0.516703942	0.000697185	0.004703575
ENSMUSG0000035392	Dennd1a	DENND/MADD domain containing 1A	-0.535899481	0.000699667	0.004719184
ENSMUSG0000042369	Rbm45	RNA binding motif protein 45	0.569109234	0.000701887	0.004733028
ENSMUSG0000000561	Wdr77	WD repeat domain 77	0.563589369	0.000702679	0.0047361
ENSMUSG00000101477	Gm18448	predicted gene, 18448	-3.424585995	0.000702637	0.0047361
ENSMUSG0000030045	Mrp19	mitochondrial ribosomal protein L19	0.614597757	0.000703627	0.004741351
ENSMUSG0000006235	Epor	erythropoietin receptor	1.229803607	0.000704421	0.004744601
ENSMUSG0000074862	BC025920	cDNA sequence BC025920	-1.152194645	0.000704447	0.004744601
ENSMUSG0000021271	Zfp839	zinc finger protein 839	-0.594474527	0.000704851	0.004746187
ENSMUSG0000018405	Mrm1	mitochondrial rRNA methyltransferase 1 homolog (S. cerevisiae)	-0.594116826	0.00070939	0.00477561
ENSMUSG0000067925	Cxx1a	CAAX box 1A	-1.07376025	0.000709571	0.004775685
ENSMUSG0000022034	Esco2	establishment of cohesion 1 homolog 2 (S. cerevisiae)	2.205605697	0.000710644	0.004780896
ENSMUSG0000085748	Gm12280	predicted gene 12280	-2.28583352	0.000710685	0.004780896
ENSMUSG0000035898	Uba6	ubiquitin-like modifier activating enzyme 6	0.568326539	0.000712215	0.004790041
ENSMUSG0000035509	Fbxl21	F-box and leucine-rich repeat protein 21	-1.356033162	0.000712385	0.004790042
ENSMUSG0000064057	Scgb3a1	secretoglobin, family 3A, member 1	-1.243878836	0.000719038	0.004832693
ENSMUSG0000032511	Scn5a	sodium channel, voltage-gated, type V, alpha	-1.491640031	0.000719072	0.004832693
ENSMUSG0000019579	D17Wsu104e	DNA segment, Chr 17, Wayne State University 104, expressed	0.531075089	0.00072156	0.004848259
ENSMUSG00000102391	RP24-227F14.4		-0.853143485	0.00072156	0.004849771
ENSMUSG0000003534	Ddr1	discoidin domain receptor family, member 1	-1.039820331	0.000722045	0.004849771
ENSMUSG00000044177	Wfikkn2	WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2	-1.872979762	0.000724777	0.004866384
ENSMUSG0000025935	Tram1	translocating chain-associating membrane protein 1	0.505317179	0.000726382	0.004875994
ENSMUSG0000085881	Gm15912	predicted gene 15912	1.126485673	0.000727042	0.004879263
ENSMUSG0000020300	Cpeb4	cytoplasmic polyadenylation element binding protein 4	0.494885272	0.000727629	0.004882035
ENSMUSG0000023979	Guca1b	guanylate cyclase activator 1B	-1.729137889	0.000727845	0.004882324
ENSMUSG0000025525	Apool	apolipoprotein O-like	0.579418993	0.000729909	0.004895004
ENSMUSG0000082922	Gm6939	predicted gene 6939	-1.696950307	0.000731823	0.004906665
ENSMUSG0000097885	5031434O11Rik	RIKEN cDNA 5031434O11 gene	-0.918840716	0.000732356	0.00490907
ENSMUSG0000024258	Polr2d	polymerase (RNA) II (DNA directed) polypeptide D	0.589258324	0.000732534	0.004909094
ENSMUSG0000034579	Pla2g3	phospholipase A2, group III	-1.846175305	0.00073384	0.004916673
ENSMUSG0000052751	Repin1	replication initiator 1	-0.534425797	0.000735444	0.004926248
ENSMUSG0000041144	Dnah7b	dynein, axonemal, heavy chain 7B	-1.972879607	0.00073624	0.004930404
ENSMUSG0000068335	Dok1	docking protein 1	0.616372623	0.000739238	0.004949308
ENSMUSG0000024238	Zeb1	zinc finger E-box binding homeobox 1	0.476005341	0.000740839	0.004958846
ENSMUSG0000037820	Tgm2	transglutaminase 2, C polypeptide	0.526603983	0.000741064	0.00495917
ENSMUSG0000068740	Celsr2	cadherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, Drosophila)	1.437979254	0.000742142	0.004965205
ENSMUSG00000103085	RP23-125I14.2		-0.616534385	0.000742904	0.004969122
ENSMUSG0000026880	Stom	stomatin	-0.541004346	0.000743131	0.004969457
ENSMUSG0000026429	Ube2t	ubiquitin-conjugating enzyme E2T (putative)	1.71768077	0.00074345	0.00496969
ENSMUSG0000029648	Flt1	FMS-like tyrosine kinase 1	-0.479557849	0.000743519	0.00496969
ENSMUSG0000076612	Ighg2c	immunoglobulin heavy constant gamma 2C	-3.76906509	0.000744316	0.004973831
ENSMUSG0000014426	Map3k4	mitogen-activated protein kinase kinase kinase 4	-0.479345694	0.000744496	0.004973858
ENSMUSG0000060904	Arl1	ADP-ribosylation factor-like 1	0.508373433	0.000746285	0.004984621
ENSMUSG0000073437	D330041H03Rik	RIKEN cDNA D330041H03 gene	-0.567771621	0.000746986	0.004988121
ENSMUSG0000028251	Tstd3	thiosulfate sulfurtransferase (rhodanese)-like domain containing 3	0.672574818	0.000750259	0.005007603
ENSMUSG0000002603	Tgfb1	transforming growth factor, beta 1	0.602377628	0.000750132	0.005007603
ENSMUSG0000070942	Il1rl2	interleukin 1 receptor-like 2	0.684335674	0.000751071	0.005011834
ENSMUSG0000092569	Gm20544	predicted gene 20544	-1.129698669	0.000752687	0.005021427
ENSMUSG0000026436	Elk4	ELK4, member of ETS oncogene family	0.459293785	0.000753093	0.005022944
ENSMUSG0000027454	Gins1	GINS complex subunit 1 (Psf1 homolog)	1.655706051	0.000754968	0.005034256
ENSMUSG0000026409	Pfkfb2	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2	-1.234625611	0.000755342	0.005035551
ENSMUSG0000040260	Daam2	dishevelled associated activator of morphogenesis 2	-0.632406104	0.000756879	0.005044602
ENSMUSG0000029659	Medag	mesenteric estrogen dependent adipogenesis	1.151117148	0.000757417	0.005046992
ENSMUSG0000039067	Psmc7	proteasome (prosome, macropain) 26S subunit, non-ATPase, 7	0.531549189	0.00075763	0.005047221
ENSMUSG0000035273	Hpse	heparanase	-0.877003327	0.000758899	0.005054479
ENSMUSG00000102461	RP24-421P3.7		-1.113462281	0.000762783	0.005079142
ENSMUSG0000027361	Gabpb1	GA repeat binding protein, beta 1	0.50085163	0.000763999	0.005086034
ENSMUSG0000025582	Nptx1	neuronal pentraxin 1	0.978854239	0.000765111	0.005092232
ENSMUSG0000035578	Iqcg	IQ motif containing G	1.446135572	0.000765569	0.005094076
ENSMUSG0000041624	Gucy1a2	guanylate cyclase 1, soluble, alpha 2	-0.517523265	0.000765908	0.005095128
ENSMUSG0000042417	Ccno	cyclin O	-1.163356505	0.000767759	0.005106235
ENSMUSG0000022556	Hsf1	heat shock factor 1	-0.553067832	0.000771212	0.005127988
ENSMUSG0000027204	Fbn1	fibrillin 1	0.456942653	0.000773699	0.005143308

ENSMUSG00000036565	Ttyh3	tweety homolog 3 (Drosophila)	0.651058318	0.000774949	0.00514918
ENSMUSG00000001700	Gramd3	GRAM domain containing 3	0.604432784	0.000774865	0.00514918
ENSMUSG00000025375	Aatk	apoptosis-associated tyrosine kinase	-1.175132128	0.000775285	0.0051502
ENSMUSG00000026078	Pdcd3	phosducin-like 3	0.481351734	0.000777913	0.005166439
ENSMUSG00000054582	Pabpc1l	poly(A) binding protein, cytoplasmic 1-like	0.871828474	0.000778513	0.005169201
ENSMUSG00000048668	Rhno1	RAD9-HUS1-RAD1 interacting nuclear orphan 1	0.647921351	0.000779397	0.005173848
ENSMUSG00000026974	Zmynd19	zinc finger, MYND domain containing 19	0.658298548	0.000781853	0.005187704
ENSMUSG00000001995	Sipa1l2	signal-induced proliferation-associated 1 like 2	-0.465550707	0.000781845	0.005187704
ENSMUSG00000022184	Fbxo4	F-box protein 4	0.564453527	0.000782671	0.005191906
ENSMUSG00000027901	Dennd2d	DENN/MADD domain containing 2D	-0.815157333	0.000782911	0.005192275
ENSMUSG00000020776	Fbf1	Fas (TNFRSF6) binding factor 1	-0.513051048	0.000783502	0.005194969
ENSMUSG00000017428	Psmc11	proteasome (prosome, macropain) 26S subunit, non-ATPase, 11	0.501127848	0.000785285	0.005205568
ENSMUSG00000046727	Cystm1	cysteine-rich transmembrane module containing 1	-0.697284296	0.000785783	0.005207639
ENSMUSG00000017491	Rarb	retinoic acid receptor, beta	-1.346264658	0.000788512	0.005224494
ENSMUSG00000093465	Gm20682	predicted gene 20682	-0.94522574	0.000789513	0.005229896
ENSMUSG00000030061	Uba3	ubiquitin-like modifier activating enzyme 3	0.512709156	0.000790373	0.005234298
ENSMUSG00000036264	Fstl4	folliculin-like 4	-2.497937951	0.000790555	0.005234298
ENSMUSG00000086075	Gm15728	predicted gene 15728	1.041021023	0.000792276	0.005241175
ENSMUSG00000050608	Minos1	mitochondrial inner membrane organizing system 1	0.562997306	0.000792333	0.005241175
ENSMUSG00000004096	Cwc15	CWC15 homolog (S. cerevisiae)	0.508179913	0.000792116	0.005241175
ENSMUSG00000021756	Il6st	interleukin 6 signal transducer	-0.471283548	0.000792091	0.005241175
ENSMUSG00000010376	Nedd8	neural precursor cell expressed, developmentally down-regulated gene 8	0.515075027	0.000793476	0.005246265
ENSMUSG00000030701	Plekhh1	pleckstrin homology domain containing, family B (evectins) member 1	-1.203056933	0.000793371	0.005246265
ENSMUSG00000003107	Rbmx2	RNA binding motif protein, X-linked 2	0.881991372	0.000795938	0.005261309
ENSMUSG00000004356	Utp20	UTP20, small subunit (SSU) processome component, homolog (yeast)	0.540601882	0.000796448	0.005263443
ENSMUSG00000031637	Lrp2bp	Lrp2 binding protein	-1.275408768	0.000797062	0.005266261
ENSMUSG00000097418	Gm26667	predicted gene, 26667	1.240192097	0.000798479	0.005274389
ENSMUSG00000040364	Sec1	secretory blood group 1	1.325834118	0.000802057	0.005296779
ENSMUSG00000053475	Tnfaip6	tumor necrosis factor alpha induced protein 6	1.569675535	0.000802485	0.005298361
ENSMUSG00000024912	Fosl1	fos-like antigen 1	1.087285952	0.000802843	0.005299478
ENSMUSG00000034648	Lrrm1	leucine rich repeat protein 1, neuronal	1.052346402	0.000804004	0.0053059
ENSMUSG00000031111	Igsf1	immunoglobulin superfamily, member 1	-1.869127401	0.000806756	0.005322813
ENSMUSG00000031934	Panx1	pannexin 1	0.766649239	0.000810301	0.005344948
ENSMUSG00000055341	Zfp457	zinc finger protein 457	-1.620224411	0.000812468	0.005357982
ENSMUSG00000048503	Tmem136	transmembrane protein 136	0.585804812	0.000813449	0.005362983
ENSMUSG00000069867	Pabpn1l	poly(A)binding protein nuclear 1-like	-1.730988628	0.000813607	0.005362983
ENSMUSG00000033781	Asb13	ankyrin repeat and SOCS box-containing 13	-0.553421408	0.000814149	0.005365299
ENSMUSG00000031145	Prickle3	prickle homolog 3 (Drosophila)	-0.491657379	0.00081518	0.005370833
ENSMUSG00000068553	Gm6969	predicted pseudogene 6969	-2.241689229	0.000817462	0.005384604
ENSMUSG00000056938	Acbd4	acyl-Coenzyme A binding domain containing 4	-0.974871724	0.000818101	0.005387557
ENSMUSG00000052485	Tmem171	transmembrane protein 171	2.270024694	0.000821505	0.00540744
ENSMUSG0000002752	Exosc8	exosome component 8	0.583549125	0.000821477	0.00540744
ENSMUSG00000030411	Nova2	neuro-oncological ventral antigen 2	-0.495316822	0.000823816	0.005421381
ENSMUSG00000086522	Gm4473	predicted gene 4473	-2.008887543	0.000824682	0.005425813
ENSMUSG00000031931	Ankrd49	ankyrin repeat domain 49	0.61362176	0.000826415	0.005435947
ENSMUSG00000027570	Col9a3	collagen, type IX, alpha 3	-1.029647916	0.000830025	0.005458413
ENSMUSG00000015337	Endog	endonuclease G	-1.338721367	0.000830938	0.005463143
ENSMUSG000000103772	RP24-74O18.4		-0.584932454	0.000831451	0.005465225
ENSMUSG00000029869	Ephb6	Eph receptor B6	-1.132836313	0.000831644	0.005465225
ENSMUSG00000026399	Cd55	CD55 antigen	0.534569951	0.00083452	0.005482844
ENSMUSG00000039960	Rhou	ras homolog gene family, member U	2.041154862	0.000835088	0.0054853
ENSMUSG00000029360	Gm9754	predicted gene 9754	-2.477136265	0.000835454	0.005486423
ENSMUSG00000041895	Wipi1	WD repeat domain, phosphoinositide interacting 1	0.468575568	0.00083668	0.005490625
ENSMUSG00000057666	Gapdh	glyceraldehyde-3-phosphate dehydrogenase	-0.55092685	0.000836652	0.005490625
ENSMUSG00000029675	Ein	elastin	-1.490199397	0.000836441	0.005490625
ENSMUSG00000041798	Gck	glucokinase	-3.268667948	0.0008393	0.005506538
ENSMUSG00000040463	Mybbp1a	MYB binding protein (P160) 1a	0.500355391	0.000844754	0.005541025
ENSMUSG00000032244	Fem1b	feminization 1 homolog b (C. elegans)	0.508155208	0.000846026	0.005548074
ENSMUSG00000097998	Gm27019	predicted gene, 27019	-1.078800135	0.000847567	0.005556887
ENSMUSG0000004031	Brinp2	bone morphogenic protein/retinoic acid inducible neural-specific 2	-0.895191702	0.000850405	0.005574192
ENSMUSG00000022667	Cd200r1	CD200 receptor 1	1.580376762	0.000853055	0.00559026
ENSMUSG00000028955	Vamp3	vesicle-associated membrane protein 3	0.488525487	0.000854787	0.005600308
ENSMUSG00000032060	Cryab	crystallin, alpha B	-0.625121826	0.000856702	0.005611157
ENSMUSG000000103509	W11-817D1.2		-0.629145373	0.000856842	0.005611157
ENSMUSG00000029207	Appb2	amyloid beta (A4) precursor protein-binding, family B, member 2	0.452747367	0.000859971	0.005630335
ENSMUSG00000022676	Snai2	snail family zinc finger 2	-0.490888621	0.000861208	0.005637124
ENSMUSG00000066278	Vps37b	vacuolar protein sorting 37B (yeast)	-0.540869541	0.000863104	0.00564822
ENSMUSG00000033417	Cacl1	CDK2 associated, cullin domain 1	0.499592067	0.000863665	0.005650581
ENSMUSG00000007415	Gatad1	GATA zinc finger domain containing 1	0.50463435	0.000865335	0.005660188
ENSMUSG00000015721	Nlrp5	NLR family, pyrin domain containing 5	-3.591421478	0.000866981	0.005669637
ENSMUSG00000025366	Esy1	extended synaptotagmin-like protein 1	0.478818	0.000867367	0.00567084
ENSMUSG00000028641	Lepre1	leprecan 1	0.49688845	0.000870276	0.005688541
ENSMUSG00000031289	Il13ra2	interleukin 13 receptor, alpha 2	2.313375569	0.000870479	0.005688547

ENSMUSG0000020346	Mgat1	mannoside acetylglucosaminyltransferase 1	0.484856566	0.000874347	0.005712494
ENSMUSG0000060924	Csmd1	CUB and Sushi multiple domains 1	-1.20247387	0.000875258	0.005717121
ENSMUSG0000019826	Zbtb24	zinc finger and BTB domain containing 24	-0.557379052	0.00087901	0.005740296
ENSMUSG0000041679	Ltrc29	leucine rich repeat containing 29	-1.05130855	0.0008816	0.005755871
ENSMUSG00000031691	Tnpo2	transportin 2 (Importin 3, karyopherin beta 2b)	0.470635478	0.000883019	0.005763799
ENSMUSG00000054659	Pm20d2	peptidase M20 domain containing 2	-1.500247699	0.000889027	0.005801671
ENSMUSG0000040938	Slc16a11	solute carrier family 16 (monocarboxylic acid transporters), member 11	-1.196651025	0.000889985	0.005806572
ENSMUSG00000087143	A830082K12Rik	RIKEN cDNA A830082K12 gene	-0.911431522	0.000891366	0.005814236
ENSMUSG00000038930	Rccd1	RCC1 domain containing 1	-0.589566374	0.00089167	0.00581487
ENSMUSG00000035078	Mtmr9	myotubularin related protein 9	0.484058472	0.000892312	0.005817709
ENSMUSG00000021390	Ogn	osteoglycin	-1.128609004	0.000894935	0.005833461
ENSMUSG00000024330	Col11a2	collagen, type XI, alpha 2	-1.096569772	0.000895725	0.005837259
ENSMUSG00000037795	N4bp2	NEDD4 binding protein 2	0.552593051	0.000896004	0.005837724
ENSMUSG00000025138	Sirt7	sirtuin 7	-0.526104047	0.000896522	0.005839743
ENSMUSG00000043067	Dpy19l1	dpy-19-like 1 (C. elegans)	0.525737789	0.000897299	0.005843446
ENSMUSG00000018899	Irf1	interferon regulatory factor 1	-0.728575601	0.000897506	0.005843446
ENSMUSG00000040841	Six5	sine oculis-related homeobox 5	-0.613055727	0.000899845	0.005857321
ENSMUSG00000002024	Slnf4	schlafen 4	0.905003884	0.000900499	0.005859289
ENSMUSG00000026970	Rbms1	RNA binding motif, single stranded interacting protein 1	0.46273471	0.000900564	0.005859289
ENSMUSG000000038670	Mybpc2	myosin binding protein C, fast-type	-1.818627014	0.000901832	0.005866181
ENSMUSG00000072647	Adam1a	a disintegrin and metallopeptidase domain 1a	-0.721073701	0.000903725	0.005877137
ENSMUSG00000005950	P2rx5	purinergic receptor P2X, ligand-gated ion channel, 5	-1.215056565	0.000905803	0.005889291
ENSMUSG00000032691	Nlrp3	NLR family, pyrin domain containing 3	1.036726892	0.00090722	0.005896113
ENSMUSG00000000355	Mcts1	malignant T cell amplified sequence 1	0.548117884	0.0009079	0.005896113
ENSMUSG00000020664	Did	dihydroliipoamide dehydrogenase	0.503819449	0.000907881	0.005896113
ENSMUSG00000066640	Fbxl18	F-box and leucine-rich repeat protein 18	-0.550465896	0.000907705	0.005896113
ENSMUSG00000103931	RP24-475O6.1		-1.422246729	0.000907897	0.005896113
ENSMUSG00000018286	Psbm6	proteasome (prosome, macropain) subunit, beta type 6	0.464569615	0.000909546	0.005905438
ENSMUSG00000006517	Mvd	mevalonate (diphospho) decarboxylase	0.832774441	0.000910467	0.005909701
ENSMUSG00000013593	Ndufs2	NADH dehydrogenase (ubiquinone) Fe-S protein 2	0.462611174	0.000910623	0.005909701
ENSMUSG000000047284	Neur4	neutralized homolog 4 (Drosophila)	-0.54874236	0.000914379	0.005932709
ENSMUSG00000050075	Gpr171	G protein-coupled receptor 171	-0.975165639	0.000919815	0.005966605
ENSMUSG00000024997	Prdx3	peroxiredoxin 3	0.51929594	0.000920081	0.005966955
ENSMUSG000000019763	Rmnd1	required for meiotic nuclear division 1 homolog (S. cerevisiae)	-0.60389503	0.000924177	0.005992137
ENSMUSG00000026662	Sephs1	selenophosphate synthetase 1	0.530350578	0.000925547	0.005999631
ENSMUSG000000026159	Agfg1	ArfGAP with FG repeats 1	0.480457513	0.000929121	0.006021413
ENSMUSG00000029810	Tmem176b	transmembrane protein 176B	0.495869109	0.000929438	0.006022081
ENSMUSG000000037419	Endod1	endonuclease domain containing 1	0.506711581	0.000930061	0.006024731
ENSMUSG00000033862	Cdk10	cyclin-dependent kinase 10	-0.566702585	0.000932791	0.006041026
ENSMUSG00000023345	Poc1a	POC1 centriolar protein homolog A (Chlamydomonas)	0.968536998	0.00093335	0.006041862
ENSMUSG000000041915	Ammecr11	AMME chromosomal region gene 1-like	0.48332548	0.000933198	0.006041862
ENSMUSG000000051721	BC068281	cDNA sequence BC068281	-0.525908513	0.000934544	0.006048198
ENSMUSG000000022370	Mrp13	mitochondrial ribosomal protein L13	0.544214901	0.000935426	0.006052517
ENSMUSG00000019173	Rab5c	RAB5C, member RAS oncogene family	0.450618516	0.00093597	0.006054643
ENSMUSG00000036941	Elac1	elaC homolog 1 (E. coli)	-0.548579207	0.000939688	0.006077297
ENSMUSG000000052496	Pkdrej	polycystic kidney disease (polycystin) and REJ (sperm receptor for egg jelly homolog, sea urchin)	-1.544183267	0.000941673	0.006088735
ENSMUSG000000053898	Ech1	enoyl coenzyme A hydratase 1, peroxisomal	-0.547366493	0.000942877	0.006093845
ENSMUSG000000047205	Dusp18	dual specificity phosphatase 18	-1.004849303	0.000942897	0.006093845
ENSMUSG000000067242	Lgi1	leucine-rich repeat LGI family, member 1	-1.78587167	0.000946278	0.006114297
ENSMUSG000000030554	Synm	synemin, intermediate filament protein	-0.507856307	0.00094763	0.006121622
ENSMUSG000000051228	Nyx	nyctalopin	-0.770814166	0.000948278	0.006124406
ENSMUSG000000025357	Dgka	diacylglycerol kinase, alpha	-0.499592334	0.000950969	0.006140375
ENSMUSG00000016757	Tll12	tubulin tyrosine ligase-like family, member 12	0.571217215	0.000952264	0.006147326
ENSMUSG000000030386	Zfp606	zinc finger protein 606	-0.518702309	0.000952772	0.006148441
ENSMUSG000000032826	Ank2	ankyrin 2, brain	-1.323180452	0.000952874	0.006148441
ENSMUSG000000083655	Gm12099	predicted gene 12099	-2.932827272	0.000954857	0.006159825
ENSMUSG000000083856	Gm13886	predicted gene 13886	-2.16340892	0.0009569	0.006171589
ENSMUSG00000018427	Ypel2	yippee-like 2 (Drosophila)	0.500381473	0.000959794	0.006188837
ENSMUSG000000046876	Atxn1	ataxin 1	0.475135549	0.000963927	0.006214059
ENSMUSG000000069045	Ddx3y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	0.458555381	0.000964193	0.006214352
ENSMUSG00000016510	Mif3	mitochondrial translational initiation factor 3	-0.539622664	0.00096612	0.006225344
ENSMUSG00000016526	Dyrk3	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 3	1.903277031	0.000966497	0.006226349
ENSMUSG00000045639	Zfp629	zinc finger protein 629	-0.505378947	0.000966749	0.006226544
ENSMUSG000000027215	Cd82	CD82 antigen	0.490372164	0.000967858	0.006232258
ENSMUSG00000036894	Rap2b	RAP2B, member of RAS oncogene family	0.684440058	0.000969136	0.006239061
ENSMUSG00000021377	Dek	DEK oncogene (DNA binding)	0.635027728	0.000972392	0.006258206
ENSMUSG00000000753	Serpinf1	serine (or cysteine) peptidase inhibitor, clade F, member 1	0.573528106	0.000972777	0.006258206
ENSMUSG000000035266	Helq	helicase, POLQ-like	-0.562625809	0.000972729	0.006258206
ENSMUSG000000048583	Igf2	insulin-like growth factor 2	1.111143028	0.000973056	0.006258569
ENSMUSG000000002763	Pex6	peroxisomal biogenesis factor 6	-0.766589548	0.000977482	0.006285602
ENSMUSG000000094786	Gm14403	predicted gene 14403	-0.684378412	0.00097968	0.006298292
ENSMUSG000000095438	Gm21747	predicted gene, 21747	-2.700689912	0.000981172	0.006306445
ENSMUSG000000042632	Pla2g6	phospholipase A2, group VI	0.802044693	0.000988948	0.006354973

ENSMUSG00000043587	Pxylp1	2-phosphoxylase phosphatase 1	-0.953216109	0.000991477	0.006369768
ENSMUSG00000061878	Sphk1	sphingosine kinase 1	1.784863665	0.00099367	0.006382404
ENSMUSG00000076431	Sox4	SRY (sex determining region Y)-box 4	0.559222195	0.00099499	0.006387963
ENSMUSG00000040761	Spen	SPEN homolog, transcriptional regulator (Drosophila)	-0.50191565	0.000994855	0.006387963
ENSMUSG00000040250	Asun	asunder, spermatogenesis regulator	0.489126457	0.000996247	0.006394575
ENSMUSG00000024991	Eif3a	eukaryotic translation initiation factor 3, subunit A	0.481382727	0.001001357	0.006423152
ENSMUSG00000042323	Pbrm1	polybromo 1	0.479611638	0.001001384	0.006423152
ENSMUSG00000025815	Dhtkd1	dehydrogenase E1 and transketolase domain containing 1	-1.652773672	0.001001356	0.006423152
ENSMUSG00000063406	Tmed5	transmembrane emp24 protein transport domain containing 5	0.467119668	0.00100248	0.006428716
ENSMUSG00000103732	RP23-6F21.1		-2.874442367	0.001004406	0.006439597
ENSMUSG00000097045	Gm26641	predicted gene, 26641	-1.166037099	0.001005648	0.006446091
ENSMUSG00000057858	Fam204a	family with sequence similarity 204, member A	0.504132138	0.001010102	0.006473165
ENSMUSG00000028214	Gem	GTP binding protein (gene overexpressed in skeletal muscle)	0.822686869	0.001016598	0.006513313
ENSMUSG00000058297	Spock2	sparc/osteonectin, cwcv and kazal-like domains proteoglycan 2	-1.985427174	0.001017877	0.00652002
ENSMUSG00000031373	Car5b	carbonic anhydrase 5b, mitochondrial	0.688262903	0.001020179	0.00653328
ENSMUSG00000025731	0610011F06Rik	RIKEN cDNA 0610011F06 gene	-0.823901269	0.001026407	0.00657167
ENSMUSG00000030142	Clec4e	C-type lectin domain family 4, member e	1.23003797	0.001033125	0.006613175
ENSMUSG00000085603	Gm11346	predicted gene 11346	-1.752470528	0.001034519	0.00662059
ENSMUSG00000075502	Zbtbd6	kelch repeat and BTB (POZ) domain containing 6	1.847225859	0.001040296	0.006656051
ENSMUSG00000030538	Cib1	calcium and integrin binding 1 (calmyrin)	0.555909243	0.001042393	0.00666795
ENSMUSG00000038751	Plk6	PTK6 protein tyrosine kinase 6	-1.661839519	0.001043617	0.006674259
ENSMUSG00000035725	Prkx	protein kinase, X-linked	0.454872456	0.001044767	0.006680097
ENSMUSG00000020018	Snrpf	small nuclear ribonucleoprotein polypeptide F	0.787907636	0.001047084	0.006693393
ENSMUSG00000038005	2700029M09Rik	RIKEN cDNA 2700029M09 gene	0.591978076	0.001047698	0.006695793
ENSMUSG00000029557	Ftsj2	FtsJ homolog 2 (E. coli)	-0.776430784	0.001047994	0.006696164
ENSMUSG00000104316	RP23-294117.4		-0.922662584	0.001055426	0.00674212
ENSMUSG00000039298	Cdk5rap2	CDK5 regulatory subunit associated protein 2	0.559062691	0.00105948	0.006762108
ENSMUSG00000027637	1110008F13Rik	RIKEN cDNA 1110008F13 gene	0.525544154	0.001059516	0.006762108
ENSMUSG00000052889	Prkcb	protein kinase C, beta	-0.932127658	0.001059002	0.006762108
ENSMUSG00000079071	Gm14085	predicted gene 14085	-1.906806206	0.001059108	0.006762108
ENSMUSG00000000440	Pparg	peroxisome proliferator activated receptor gamma	0.716831993	0.001062961	0.006782557
ENSMUSG00000036430	Tbcc	tubulin-specific chaperone C	0.559109463	0.00106379	0.006786306
ENSMUSG00000102212	RP24-146B4.2		-1.265114675	0.001064256	0.006787739
ENSMUSG00000030188	Magohb	mago-nashi homolog B (Drosophila)	0.745341872	0.001065222	0.006792363
ENSMUSG00000044626	Liph	lipase, member H	2.233643279	0.001066415	0.006796884
ENSMUSG00000033705	Stard9	START domain containing 9	-0.429028658	0.001066391	0.006796884
ENSMUSG00000041187	Prkd2	protein kinase D2	-0.45913987	0.001072567	0.006834548
ENSMUSG00000055676	Gm5069	predicted pseudogene 5069	-1.363183726	0.001073132	0.006836018
ENSMUSG00000037129	Tmprss13	transmembrane protease, serine 13	-3.808675484	0.001073284	0.006836018
ENSMUSG00000031273	Col4a6	collagen, type IV, alpha 6	-0.940014379	0.001076571	0.006855403
ENSMUSG00000017816	Mthfsd	methylenetetrahydrofolate synthetase domain containing	-0.558305392	0.001077831	0.006858772
ENSMUSG00000035545	Leng8	leukocyte receptor cluster (LRC) member 8	-0.559082066	0.001077679	0.006858772
ENSMUSG00000064267	Hvcn1	hydrogen voltage-gated channel 1	-0.976715933	0.00107775	0.006858772
ENSMUSG00000022604	Cep97	centrosomal protein 97	-0.466602607	0.001078115	0.006859023
ENSMUSG00000097750	Gm4673	predicted gene 4673	-0.750885917	0.001078977	0.00686296
ENSMUSG00000017550	Atad5	ATPase family, AAA domain containing 5	1.022019015	0.001080347	0.00687012
ENSMUSG00000043993	2900052L18Rik	RIKEN cDNA 2900052L18 gene	-1.183962604	0.001080794	0.006871407
ENSMUSG00000005610	Eif4g2	eukaryotic translation initiation factor 4, gamma 2	0.465631803	0.001087632	0.006913321
ENSMUSG00000022881	Rfc4	replication factor C (activator 1) 4	0.851399391	0.001090435	0.006929569
ENSMUSG00000054293	A630033H20Rik	RIKEN cDNA A630033H20 gene	0.710428928	0.0010932	0.006945575
ENSMUSG00000034898	Filip1	filamin A interacting protein 1	-0.507816129	0.001095502	0.006958626
ENSMUSG00000048332	Lhfp	lipoma HMGIC fusion partner	0.475205575	0.001095826	0.006959115
ENSMUSG00000075229	Ccdc58	coiled-coil domain containing 58	0.672423013	0.001100136	0.00698491
ENSMUSG00000018287	Spag7	sperm associated antigen 7	0.491659513	0.001101032	0.006987444
ENSMUSG00000036751	Cox6b1	cytochrome c oxidase, subunit VIb polypeptide 1	0.479499818	0.001101017	0.006987444
ENSMUSG00000028032	Papss1	3'-phosphoadenosine 5'-phosphosulfate synthase 1	0.483129126	0.001103551	0.007001851
ENSMUSG00000029176	Anapc4	anaphase promoting complex subunit 4	0.484501612	0.001104718	0.007007675
ENSMUSG00000018774	Cd68	CD68 antigen	-0.664052462	0.001107457	0.007023466
ENSMUSG00000064145	Arlh2	ariadne homolog 2 (Drosophila)	0.450119256	0.001110358	0.007038686
ENSMUSG00000028059	Arhgef2	rho/rac guanine nucleotide exchange factor (GEF) 2	0.445288847	0.001110216	0.007038686
ENSMUSG00000024317	Rnf138	ring finger protein 138	0.515145611	0.001110811	0.007039976
ENSMUSG00000027931	Npr1	natriuretic peptide receptor 1	0.456571296	0.001111443	0.007041632
ENSMUSG00000024065	Ehd3	EH-domain containing 3	-0.591371885	0.001111573	0.007041632
ENSMUSG00000089679	Gm16299	predicted gene 16299	-1.27575267	0.001112301	0.007044658
ENSMUSG00000070803	Cited4	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4	-1.757825179	0.001112798	0.007046218
ENSMUSG00000034731	Dgkh	diacylglycerol kinase, eta	0.462747216	0.001114178	0.007052016
ENSMUSG00000028555	Ttc39a	tetratricopeptide repeat domain 39A	-1.368102753	0.001114215	0.007052016
ENSMUSG00000015522	Arnt	aryl hydrocarbon receptor nuclear translocator	0.443776814	0.001117023	0.007068198
ENSMUSG00000017344	Vtn	vitronectin	-0.774547583	0.00111739	0.007068933
ENSMUSG00000001065	Zip276	zinc finger protein (C2H2 type) 276	-0.532218041	0.001119606	0.007081357
ENSMUSG00000022201	Zfr	zinc finger RNA binding protein	0.480857207	0.001120737	0.007086105
ENSMUSG00000044244	Il20rb	interleukin 20 receptor beta	-0.743273368	0.00112086	0.007086105
ENSMUSG00000035357	Pdzrn3	PDZ domain containing RING finger 3	0.545071007	0.001121493	0.007086922

ENSMUSG00000024539	Ptpn2	protein tyrosine phosphatase, non-receptor type 2	0.52740093	0.00112135	0.007086922
ENSMUSG00000014599	Csf1	colony stimulating factor 1 (macrophage)	-0.459269139	0.001123064	0.007095254
ENSMUSG00000025429	Pstpip2	proline-serine-threonine phosphatase-interacting protein 2	-1.295756934	0.001124891	0.007105198
ENSMUSG00000024614	Tmx3	thioredoxin-related transmembrane protein 3	0.486925403	0.001125758	0.007109081
ENSMUSG00000030663	1110004F10Rik	RIKEN cDNA 1110004F10 gene	0.495469274	0.001132898	0.00715256
ENSMUSG00000029452	Tmem116	transmembrane protein 116	-1.721536241	0.001133462	0.007154517
ENSMUSG00000090000	Ier3ip1	immediate early response 3 interacting protein 1	0.539068504	0.001133801	0.007155505
ENSMUSG00000036241	Ube2r2	ubiquitin-conjugating enzyme E2R 2	0.478303994	0.001134873	0.00716021
ENSMUSG00000102594	RP24-93F24.1		-1.012524408	0.001138305	0.007180257
ENSMUSG00000025950	Idh1	isocitrate dehydrogenase 1 (NADP+), soluble	0.488649761	0.001139903	0.007188724
ENSMUSG00000064138	Fam172a	family with sequence similarity 172, member A	0.483892416	0.001143246	0.007208189
ENSMUSG00000052056	Zfp217	zinc finger protein 217	0.455446868	0.001143633	0.007209012
ENSMUSG00000042305	Tmem183a	transmembrane protein 183A	0.483817537	0.001148067	0.00723534
ENSMUSG00000022111	Uchl3	ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase)	0.706546781	0.001149587	0.007243302
ENSMUSG00000024174	Pot1b	protection of telomeres 1B	-0.507542793	0.001150024	0.007244432
ENSMUSG00000073542	Cep76	centrosomal protein 76	0.58799791	0.001151016	0.007249056
ENSMUSG00000059772	Slx1b	SLX1 structure-specific endonuclease subunit homolog B (S. cerevisiae)	-0.517504616	0.001156218	0.007280188
ENSMUSG00000042215	Bag2	BCL2-associated athanogene 2	-0.797070385	0.001159347	0.007297736
ENSMUSG00000026424	Gpr3711	G protein-coupled receptor 37-like 1	-2.099875076	0.001159524	0.007297736
ENSMUSG00000020717	Pecam1	platelet/endothelial cell adhesion molecule 1	0.441747739	0.001162597	0.007315444
ENSMUSG00000029797	Sspo	SCO-spondin	-1.433405932	0.001163811	0.007321443
ENSMUSG00000009013	Dynl1	dynein light chain LC8-type 1	0.512473942	0.001166484	0.007336621
ENSMUSG00000053801	Grwd1	glutamate-rich WD repeat containing 1	0.614270625	0.001166975	0.007338067
ENSMUSG00000025407	Gli1	GLI-Kruppel family member GLI1	-1.328288016	0.001169024	0.00734931
ENSMUSG00000095180	Rhox5	reproductive homeobox 5	0.828087821	0.001169828	0.007352716
ENSMUSG00000036790	Slitrk2	SLIT and NTRK-like family, member 2	-0.875701395	0.001171853	0.007363799
ENSMUSG00000025453	Nnt	nicotinamide nucleotide transhydrogenase	-0.478317722	0.001176667	0.007392403
ENSMUSG00000036323	Srp72	signal recognition particle 72	0.475932206	0.001178273	0.00740084
ENSMUSG00000038582	Pptc7	PTC7 protein phosphatase homolog (S. cerevisiae)	-0.494936727	0.001179305	0.007405665
ENSMUSG00000026021	Sumo1	SMT3 suppressor of mif two 3 homolog 1 (yeast)	0.545502512	0.001180084	0.007408903
ENSMUSG00000028672	Hmgcl	3-hydroxy-3-methylglutaryl-Coenzyme A lyase	0.6844184	0.001181117	0.007414066
ENSMUSG00000022673	Mcm4	minichromosome maintenance deficient 4 homolog (S. cerevisiae)	0.779767871	0.001183569	0.007427467
ENSMUSG00000033033	Calhm2	calcium homeostasis modulator 2	-0.58891981	0.001186934	0.007446925
ENSMUSG00000049553	Polr1a	polymerase (RNA) I polypeptide A	0.488537275	0.001189842	0.007463503
ENSMUSG00000028100	Nudt17	nudix (nucleoside diphosphate linked moiety X)-type motif 17	-1.301765897	0.001190952	0.007468805
ENSMUSG00000038395	Nupl1	nucleoporin like 1	0.508544755	0.001191373	0.007469777
ENSMUSG00000056966	Gjc3	gap junction protein, gamma 3	-2.48473265	0.00119209	0.007472612
ENSMUSG00000006720	Zfp184	zinc finger protein 184 (Kruppel-like)	-0.781634313	0.001194145	0.007482155
ENSMUSG00000097131	D230017M19Rik	RIKEN cDNA D230017M19 gene	-1.277996034	0.001193993	0.007482155
ENSMUSG00000026012	Cd28	CD28 antigen	-1.338488589	0.001197438	0.007501116
ENSMUSG000000021175	Cdca71	cell division cycle associated 7 like	1.226013167	0.001197993	0.007502925
ENSMUSG00000022257	Laptm4b	lysosomal-associated protein transmembrane 4B	0.508604686	0.001199193	0.007508769
ENSMUSG00000035530	Eif1	eukaryotic translation initiation factor 1	-0.517482712	0.001201924	0.007524196
ENSMUSG00000031787	Katnb1	katanin p80 (WD40-containing) subunit B 1	0.608900425	0.001206656	0.007552136
ENSMUSG000000061904	Slc25a3	solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 3	0.45554221	0.001210974	0.007577475
ENSMUSG00000003269	Cyth2	cytohesin 2	0.434489131	0.001212013	0.007582289
ENSMUSG00000060397	Zfp128	zinc finger protein 128	-0.579950933	0.001212702	0.007584914
ENSMUSG00000030207	8430419L09Rik	RIKEN cDNA 8430419L09 gene	-0.549302523	0.001219475	0.007625583
ENSMUSG00000024261	Syt4	synaptotagmin IV	3.193009855	0.001222853	0.007645006
ENSMUSG000000086181	C230034O21Rik	RIKEN cDNA C230034O21 gene	-1.521669524	0.001224766	0.007655263
ENSMUSG000000085315	A430018G15Rik	RIKEN cDNA A430018G15 gene	-1.407643189	0.001225485	0.007658057
ENSMUSG00000020386	Sar1b	SAR1 gene homolog B (S. cerevisiae)	0.490842492	0.001226651	0.00766364
ENSMUSG00000001305	Rrp15	ribosomal RNA processing 15 homolog (S. cerevisiae)	0.549344925	0.0012286	0.007672407
ENSMUSG00000055305	Zfp93	zinc finger protein 93	-0.634821664	0.001228398	0.007672407
ENSMUSG00000026494	Kif26b	kinesin family member 26B	0.832191335	0.001235808	0.007715712
ENSMUSG00000039046	Usp6nl	USP6 N-terminal like	0.439159066	0.001236539	0.007718559
ENSMUSG00000054733	Msra	methionine sulfoxide reductase A	0.551285963	0.00124013	0.007739258
ENSMUSG00000028693	Nasp	nuclear autoantigenic sperm protein (histone-binding)	0.504140698	0.001241833	0.007748167
ENSMUSG00000104519	RP23-462P13.1		-3.132400416	0.001243413	0.007756307
ENSMUSG00000090150	Acad11	acyl-Coenzyme A dehydrogenase family, member 11	-0.477764904	0.001244944	0.007764136
ENSMUSG00000041649	Klf8	Kruppel-like factor 8	0.69640296	0.001245229	0.007764189
ENSMUSG00000063382	Bcl9l	B cell CLL/lymphoma 9-like	-1.064995833	0.001245854	0.007766367
ENSMUSG00000008167	Fbxw9	F-box and WD-40 domain protein 9	0.625071415	0.001253814	0.007811244
ENSMUSG000000021621	Zochc9	zinc finger, CCHC domain containing 9	0.532088964	0.001253738	0.007811244
ENSMUSG000000027162	Lin7c	lin-7 homolog C (C. elegans)	0.458526571	0.001253886	0.007811244
ENSMUSG00000097062	Gm17586	predicted gene, 17586	1.228121821	0.001256122	0.007823441
ENSMUSG00000060572	Mfap2	microfibrillar-associated protein 2	-1.434551235	0.001256801	0.007825935
ENSMUSG00000037306	Man1c1	mannosidase, alpha, class 1C, member 1	0.459759936	0.001257411	0.007827196
ENSMUSG00000044730	9930104L06Rik	RIKEN cDNA 9930104L06 gene	-0.554092093	0.00125756	0.007827196
ENSMUSG00000016946	Kctd5	potassium channel tetramerisation domain containing 5	0.493342614	0.001258584	0.007830104
ENSMUSG000000027900	Dram2	DNA-damage regulated autophagy modulator 2	-0.47598636	0.001258308	0.007830104
ENSMUSG00000006392	Med8	mediator complex subunit 8	0.480311095	0.001259892	0.007836509
ENSMUSG00000052337	Immt	inner membrane protein, mitochondrial	0.473451461	0.001260345	0.007837594

ENSMUSG00000022193	Psmb5	proteasome (prosome, macropain) subunit, beta type 5	0.647743322	0.001266883	0.007876512
ENSMUSG00000029380	Cxcl1	chemokine (C-X-C motif) ligand 1	0.875596442	0.001267311	0.007877432
ENSMUSG00000006057	Atp5g1	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit C1 (subunit 9)	-0.654609437	0.00126836	0.007882214
ENSMUSG00000020009	Ifngr1	interferon gamma receptor 1	0.477978442	0.001271829	0.007902025
ENSMUSG00000038871	Bpgm	2,3-bisphosphoglycerate mutase	-0.589891719	0.001276505	0.007929329
ENSMUSG00000031347	Cetn2	centrin 2	0.570047702	0.001279228	0.007944487
ENSMUSG00000020178	Adora2a	adenosine A2a receptor	0.746989318	0.001281132	0.007954554
ENSMUSG00000061360	Phf5a	PHD finger protein 5A	0.517537431	0.00128451	0.007973766
ENSMUSG00000058706	0610030E20Rik	RIKEN cDNA 0610030E20 gene	-0.489048558	0.001287425	0.007988341
ENSMUSG00000052911	Lamb2	laminin, beta 2	-0.914018984	0.001287343	0.007988341
ENSMUSG00000025404	R3hdm2	R3H domain containing 2	-0.48761488	0.001287836	0.007989127
ENSMUSG00000027288	Zfp106	zinc finger protein 106	-0.462445229	0.001288622	0.007992238
ENSMUSG00000070034	Sp110	Sp110 nuclear body protein	-0.492869729	0.001288982	0.007992711
ENSMUSG00000068699	Finc	filamin C, gamma	1.338635552	0.001289684	0.007995302
ENSMUSG00000030159	Clec1b	C-type lectin domain family 1, member b	1.068146436	0.001293145	0.008013227
ENSMUSG00000047547	Cltb	clathrin, light polypeptide (Lcb)	-0.493194656	0.001293098	0.008013227
ENSMUSG00000005338	Cadm3	cell adhesion molecule 3	-1.063411196	0.00129508	0.00802345
ENSMUSG00000000275	Trim25	tripartite motif-containing 25	-0.451193849	0.001299603	0.008049698
ENSMUSG00000037143	Cfap61	cilia and flagella associated protein 61	-3.086178795	0.001300299	0.008052236
ENSMUSG00000017421	Zfp207	zinc finger protein 207	0.474139122	0.001301005	0.008053401
ENSMUSG00000006154	Eps8l1	EPS8-like 1	-1.014108419	0.00130106	0.008053401
ENSMUSG00000052942	Glis3	GLIS family zinc finger 3	1.026778342	0.001301612	0.008055051
ENSMUSG00000053985	Zfp14	zinc finger protein 14	-0.698579735	0.001304163	0.008069058
ENSMUSG00000026228	Htr2b	5-hydroxytryptamine (serotonin) receptor 2B	-1.00766954	0.001305549	0.00807586
ENSMUSG00000071860	Ttc9c	tetratricopeptide repeat domain 9C	0.535974718	0.001306118	0.008077603
ENSMUSG00000028959	Fastk	Fas-activated serine/threonine kinase	-0.66616286	0.001307085	0.008081808
ENSMUSG00000023019	Gpd1	glycerol-3-phosphate dehydrogenase 1 (soluble)	-0.930835064	0.001309504	0.008094983
ENSMUSG00000097637	4933417D19Rik	RIKEN cDNA 4933417D19 gene	-2.313891822	0.001311607	0.008106205
ENSMUSG00000046152	Fut10	fucosyltransferase 10	-0.439318916	0.001312222	0.008108225
ENSMUSG00000062078	Qk	quaking	0.440291005	0.001313644	0.008115231
ENSMUSG00000003824	Syce2	synaptonemal complex central element protein 2	1.118857371	0.001318384	0.008140933
ENSMUSG00000049672	Zbtb14	zinc finger and BTB domain containing 14	-0.502674592	0.001318147	0.008140933
ENSMUSG00000085020	2310081O03Rik	RIKEN cDNA 2310081O03 gene	4.968069736	0.001318747	0.008141391
ENSMUSG00000021684	Pde8b	phosphodiesterase 8B	-0.651137861	0.001319266	0.008142807
ENSMUSG00000048782	Insc	inscuteable homolog (Drosophila)	-1.711573662	0.001320249	0.008147085
ENSMUSG00000033706	Smyd5	SET and MYND domain containing 5	0.569826342	0.0013215	0.00815299
ENSMUSG00000055371	Stam2	signal transducing adaptor molecule (SH3 domain and ITAM motif) 2	0.465029204	0.001321785	0.00815299
ENSMUSG00000037553	Zdhc18	zinc finger, DHHC domain containing 18	-0.517885182	0.001323946	0.008162739
ENSMUSG00000071335	G630090E17Rik	RIKEN cDNA G630090E17 gene	-2.026881435	0.001323777	0.008162739
ENSMUSG00000055538	Zcchc24	zinc finger, CCHC domain containing 24	0.421881642	0.001326468	0.008176492
ENSMUSG00000040918	Slc19a2	solute carrier family 19 (thiamine transporter), member 2	0.524876503	0.001332781	0.008213211
ENSMUSG00000033633	Clec18a	C-type lectin domain family 18, member A	-2.58686588	0.001333008	0.008213211
ENSMUSG00000056665	Them6	thioesterase superfamily member 6	-1.165674209	0.001334575	0.008221062
ENSMUSG00000042312	S100a13	S100 calcium binding protein A13	0.457871215	0.001336539	0.008231357
ENSMUSG00000025933	Tmem14a	transmembrane protein 14A	-0.949405185	0.001339501	0.008247797
ENSMUSG00000036242	3632451O06Rik	RIKEN cDNA 3632451O06 gene	-1.947333209	0.001340382	0.008251412
ENSMUSG00000058254	Tspan7	tetraspanin 7	-0.497483599	0.001343069	0.008266147
ENSMUSG00000030823	9130019O22Rik	RIKEN cDNA 9130019O22 gene	-0.616807542	0.001343659	0.008267969
ENSMUSG00000086977	Gm5970	predicted gene 5970	-1.992736754	0.001346824	0.008285631
ENSMUSG00000052133	Sema5b	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5B	-1.050900189	0.001353858	0.008327086
ENSMUSG00000044551	9930012K11Rik	RIKEN cDNA 9930012K11 gene	0.798123645	0.001357631	0.008348465
ENSMUSG00000036093	Arl5a	ADP-ribosylation factor-like 5A	0.474169245	0.001360582	0.008364785
ENSMUSG00000084997	Gm15471	predicted gene 15471	1.951583211	0.001364738	0.008388499
ENSMUSG00000025134	Alyref	Aly/REF export factor	0.487559227	0.001366435	0.008394921
ENSMUSG00000022994	Adcy6	adenylate cyclase 6	-0.497728632	0.001366678	0.008394921
ENSMUSG00000022615	Tymp	thymidine phosphorylase	-2.095766112	0.001366646	0.008394921
ENSMUSG00000044533	Rps2	ribosomal protein S2	0.477586997	0.00136985	0.008412574
ENSMUSG00000050627	Gpd1l	glycerol-3-phosphate dehydrogenase 1-like	-0.45251879	0.001370473	0.008413799
ENSMUSG00000036913	Trim67	tripartite motif-containing 67	-2.27107541	0.001370648	0.008413799
ENSMUSG00000085643	Gm12519	predicted gene 12519	-3.445576272	0.001373231	0.008427814
ENSMUSG00000026062	Slc9a2	solute carrier family 9 (sodium/hydrogen exchanger), member 2	-1.531775325	0.001374714	0.00843508
ENSMUSG00000084843	B230312C02Rik	RIKEN cDNA B230312C02 gene	-3.044712329	0.00137734	0.008449344
ENSMUSG00000055917	Zfp277	zinc finger protein 277	0.504821878	0.001380331	0.008465849
ENSMUSG00000037965	Zc3h7a	zinc finger CCCH type containing 7 A	0.448415654	0.001380762	0.008466647
ENSMUSG00000022895	Ets2	E26 avian leukemia oncogene 2, 3' domain	0.455608634	0.001381175	0.008467334
ENSMUSG00000083305	Gm13315	predicted gene 13315	-1.340684481	0.001382717	0.00847494
ENSMUSG00000039385	Cdh6	cadherin 6	-0.871871053	0.001388466	0.008508327
ENSMUSG00000023828	Slc22a3	solute carrier family 22 (organic cation transporter), member 3	-2.249037746	0.001393676	0.00853839
ENSMUSG00000023972	Ptk7	PTK7 protein tyrosine kinase 7	1.059655849	0.001402585	0.008591103
ENSMUSG00000074825	Itprip1	inositol 1,4,5-triphosphate receptor interacting protein-like 1	-0.583154558	0.001405129	0.00860481
ENSMUSG000000103103	mmu-mir-191	mmu-mir-191	-1.18344172	0.001406908	0.008613828
ENSMUSG00000019139	Isyna1	myo-inositol 1-phosphate synthase A1	-0.97626881	0.001410862	0.00863616
ENSMUSG00000066196	Spag8	sperm associated antigen 8	-2.393381729	0.001415914	0.008665199

ENSMUSG00000042604	Kcna4	potassium voltage-gated channel, shaker-related subfamily, member 4	-2.175618196	0.001418594	0.008679712
ENSMUSG00000040594	Ranbp17	RAN binding protein 17	0.732772975	0.001420494	0.008689446
ENSMUSG00000027160	Ccdc34	coiled-coil domain containing 34	0.767382875	0.001421191	0.008691818
ENSMUSG00000028063	Lmna	lamin A	0.958501375	0.001425005	0.00871325
ENSMUSG00000033499	Larp4b	La ribonucleoprotein domain family, member 4B	0.46924626	0.001429924	0.008741426
ENSMUSG00000035284	Vps13c	vacuolar protein sorting 13C (yeast)	-0.413821039	0.001430912	0.008745454
ENSMUSG00000055235	Wdr86	WD repeat domain 86	-1.177138526	0.001431204	0.008745454
ENSMUSG00000018999	Slc35b4	solute carrier family 35, member B4	0.507648425	0.001434039	0.008760874
ENSMUSG00000018446	C1qb	complement component 1, q subcomponent binding protein	0.554436108	0.001441989	0.008805615
ENSMUSG00000020653	Klf11	Kruppel-like factor 11	-0.513388792	0.001441813	0.008805615
ENSMUSG00000030304	Ergic2	ERGIC and golgi 2	0.481093887	0.001442351	0.008805917
ENSMUSG00000026456	Cybs1	cytochrome b5 reductase 1	-0.447104126	0.001447452	0.008835143
ENSMUSG00000029649	Pomp	proteasome maturation protein	0.482879283	0.001447851	0.008835662
ENSMUSG00000027939	Nup210l	nucleoporin 210-like	0.676313422	0.001448694	0.008838884
ENSMUSG00000044364	Tmem74b	transmembrane protein 74B	-2.486492472	0.001451115	0.008851737
ENSMUSG00000063253	Scoc	short coiled-coil protein	0.589168015	0.001451841	0.008854246
ENSMUSG00000010461	Eya4	eyes absent 4 homolog (Drosophila)	-1.647008931	0.001453825	0.008864423
ENSMUSG00000046707	Csnk2a2	casein kinase 2, alpha prime polypeptide	0.477856655	0.001457878	0.008887212
ENSMUSG00000028923	Necap2	NECAP endocytosis associated 2	0.45529294	0.001459401	0.008894571
ENSMUSG00000074918	Inafm2	InaF motif containing 2	0.462908811	0.001460637	0.00890017
ENSMUSG00000054715	Zscan22	zinc finger and SCAN domain containing 22	-0.527422697	0.00146142	0.008903014
ENSMUSG00000033047	Eif3l	eukaryotic translation initiation factor 3, subunit L	0.458650638	0.001466089	0.008929525
ENSMUSG00000035566	Pcdh17	protocadherin 17	0.503766245	0.001470282	0.008953129
ENSMUSG00000042766	Trim46	tripartite motif-containing 46	1.009783633	0.001474173	0.008974876
ENSMUSG00000020105	Lrig3	leucine-rich repeats and immunoglobulin-like domains 3	-0.502476904	0.001479088	0.009002853
ENSMUSG00000021114	Atp6v1d	ATPase, H+ transporting, lysosomal V1 subunit D	0.482093858	0.001479462	0.009003182
ENSMUSG00000050605	Zfp61	zinc finger protein 61	-0.591242673	0.001481803	0.009015477
ENSMUSG00000021326	Trim27	tripartite motif-containing 27	0.507544276	0.001483834	0.009025881
ENSMUSG00000025466	Fuom	fucose mutarotase	-0.725903891	0.001485471	0.009033883
ENSMUSG00000066235	Pomgnt2	protein O-linked mannose beta 1,4-N-acetylglucosaminyltransferase 2	-0.740213441	0.001486036	0.009035369
ENSMUSG00000039781	Cep131	centrosomal protein 131	-0.802583793	0.001501383	0.009126707
ENSMUSG00000004151	Etv1	ets variant 1	-0.71757658	0.00150337	0.009136811
ENSMUSG00000070732	Rbm44	RNA binding motif protein 44	2.050175149	0.001503736	0.009137063
ENSMUSG00000097328	Tnfrsf12	tumor necrosis factor (ligand) superfamily, member 12	-0.566570505	0.001508961	0.009166829
ENSMUSG00000056493	Foxk1	forkhead box K1	-0.534021206	0.001512231	0.009183281
ENSMUSG00000037692	Ahdc1	AT hook, DNA binding motif, containing 1	-0.908070357	0.00151262	0.009183281
ENSMUSG00000086448	9330162012Rik	cDNA RIKEN 9330162012 gene	-1.87844645	0.001512648	0.009183281
ENSMUSG00000020143	Dock2	dedicator of cyto-kinesis 2	-0.658593572	0.001513095	0.009184014
ENSMUSG00000099141	Mir6352	microRNA 6352	-1.659606296	0.001515117	0.009194303
ENSMUSG00000042473	Tbctd8b	TBC1 domain family, member 8B	0.526711142	0.001518267	0.009209804
ENSMUSG00000026727	Rsu1	Ras suppressor protein 1	0.459091859	0.001518326	0.009209804
ENSMUSG00000090659	Zfp493	zinc finger protein 493	-0.740258392	0.001521666	0.00922807
ENSMUSG00000025584	Pde8a	phosphodiesterase 8A	0.456965835	0.001524621	0.009244
ENSMUSG00000025209	Peo1	progressive external ophthalmoplegia 1 (human)	-0.555054658	0.001527023	0.00925657
ENSMUSG000000103674	RP23-463E.1		-0.812833138	0.00153417	0.009297887
ENSMUSG00000027562	Car2	carbonic anhydrase 2	-0.881943254	0.001535765	0.009305549
ENSMUSG00000099034	2810039B14Rik	RIKEN cDNA 2810039B14 gene	-1.39231315	0.001539802	0.009328004
ENSMUSG00000032179	Bmp5	bone morphogenetic protein 5	-0.628836199	0.001540313	0.009329088
ENSMUSG00000044060	A830010M20Rik	RIKEN cDNA A830010M20 gene	-0.505258256	0.001544897	0.009415395
ENSMUSG00000023944	Hsp90ab1	heat shock protein 90 alpha (cytosolic), class B member 1	0.470567434	0.001555652	0.00941794
ENSMUSG00000001847	Rac1	RAS-related C3 botulinum substrate 1	0.438783099	0.001556285	0.009419743
ENSMUSG00000057895	Zfp105	zinc finger protein 105	-0.591035264	0.001558103	0.009428717
ENSMUSG00000024304	Cdh2	cadherin 2	-1.15371214	0.001558804	0.00943093
ENSMUSG00000050890	Pdik1l	PDLIM1 interacting kinase 1 like	0.556334825	0.001562621	0.009451991
ENSMUSG00000024231	Cul2	culin 2	0.495896048	0.001564889	0.009463677
ENSMUSG00000031511	Arhgef7	Rho guanine nucleotide exchange factor (GEF7)	0.451226615	0.001567196	0.009475432
ENSMUSG00000022788	Fgd4	FYVE, RhoGEF and PH domain containing 4	-1.123314283	0.001567507	0.009475432
ENSMUSG00000102783	RP24-326O4.2		-3.197187674	0.001571689	0.009498671
ENSMUSG00000022427	Tom22	translocase of outer mitochondrial membrane 22 homolog (yeast)	0.490861894	0.001578475	0.009537636
ENSMUSG00000022404	Slc25a17	solute carrier family 25 (mitochondrial carrier, peroxisomal membrane protein), member 17	0.500560881	0.00158092	0.009550357
ENSMUSG00000004843	Chmp2b	charged multivesicular body protein 2B	0.465659992	0.001582141	0.009555682
ENSMUSG00000003549	Erccl	excision repair cross-complementing rodent repair deficiency, complementation group 1	1.336565218	0.001586238	0.009576314
ENSMUSG00000035637	Grhpr	glyoxylate reductase/hydroxyypyruvate reductase	-0.818815371	0.001585953	0.009576314
ENSMUSG00000040860	Crocc	ciliary rootlet coiled-coil, rootletin	-0.78349254	0.001592819	0.009613986
ENSMUSG00000045689	Pcdhb4	protocadherin beta 4	0.612288875	0.001600176	0.009656318
ENSMUSG00000044716	Dok7	docking protein 7	-1.843401037	0.001602306	0.009667099
ENSMUSG00000021715	Cwc27	CWC27 spliceosome-associated protein homolog (S. cerevisiae)	0.508687692	0.00160479	0.009680011
ENSMUSG00000024507	Hsd17b4	hydroxysteroid (17-beta) dehydrogenase 4	0.462872952	0.001615221	0.00974084
ENSMUSG00000074219	Gm10644	predicted gene 10644	-1.513557763	0.001617313	0.009751366
ENSMUSG00000104346	PCDHGB6	protocadherin gamma-A3 precursor	-0.587478633	0.001619433	0.009762053
ENSMUSG00000073139	BC023829	cDNA sequence BC023829	0.505435967	0.001622211	0.009776164
ENSMUSG00000003169	Porcn	porcupine homolog (Drosophila)	-0.869005061	0.001622469	0.009776164
ENSMUSG00000010166	Gm28496	predicted gene 28496	-1.17882394	0.001624841	0.009788363

ENSMUSG00000028541	B4galt2	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 2	0.667401519	0.001635602	0.009851081
ENSMUSG00000049295	Zfp219	zinc finger protein 219	-0.743779028	0.001640008	0.009875499
ENSMUSG000000042642	Flad1	RFad1, flavin adenine dinucleotide synthetase, homolog (yeast)	-0.564520357	0.001640848	0.009878445
ENSMUSG000000024737	Slc15a3	solute carrier family 15, member 3	0.488163535	0.001641661	0.009881227
ENSMUSG000000004270	Lpcat3	lysophosphatidylcholine acyltransferase 3	0.47831766	0.001645046	0.009899485
ENSMUSG000000030622	Mtmr10	myotubularin related protein 10	-0.498967335	0.001646694	0.009907282
ENSMUSG00000038058	Nod1	nucleotide-binding oligomerization domain containing 1	-0.415108776	0.001660024	0.009985342
ENSMUSG000000026615	Eprs	glutamyl-prolyl-tRNA synthetase	0.467453152	0.001661756	0.009993624
ENSMUSG00000004561	Mettl17	methyltransferase like 17	-0.561489361	0.001663067	0.009999371
ENSMUSG000000049686	Orai1	ORAI calcium release-activated calcium modulator 1	0.618368125	0.001667578	0.01002435
ENSMUSG000000032217	Rnf111	ring finger 111	0.457412004	0.001673673	0.010056477
ENSMUSG000000042797	Aqp11	aquaporin 11	-1.472298722	0.001673913	0.010056477
ENSMUSG000000097015	Gm26705	predicted gene, 26705	-2.144075146	0.001673994	0.010056477
ENSMUSG000000091985	Gm17354	predicted gene, 17354	-0.671300916	0.001675558	0.010063723
ENSMUSG000000026679	Enkur	enkurin, TRPC channel interacting protein	1.156397455	0.001676033	0.010064429
ENSMUSG000000049811	Fam161a	family with sequence similarity 161, member A	-0.732964616	0.001677033	0.01006828
ENSMUSG000000046603	Tcaim	T cell activation inhibitor, mitochondrial	-0.504684709	0.00168352	0.010103019
ENSMUSG000000085272	Sbk3	SH3 domain binding kinase family, member 3	-2.142856631	0.001683537	0.010103019
ENSMUSG000000044702	Palb2	partner and localizer of BRCA2	0.767830945	0.00169123	0.010147018
ENSMUSG000000057841	Rpl32	ribosomal protein L32	0.435198075	0.001697363	0.010179831
ENSMUSG000000090125	Pou3f1	POU domain, class 3, transcription factor 1	-1.478289345	0.001697423	0.010179831
ENSMUSG000000033400	Agl	amylase-1,6-glycosidase, 4-alpha-glucanotransferase	-0.500316729	0.001698738	0.010185548
ENSMUSG00000019804	Snx3	sorting nexin 3	0.487991786	0.00169939	0.010187289
ENSMUSG000000005483	Dnajb1	DnaJ (Hsp40) homolog, subfamily B, member 1	-0.674334012	0.001700291	0.010190517
ENSMUSG000000031711	Zfp330	zinc finger protein 330	0.489856909	0.001703164	0.010205559
ENSMUSG000000088920	Gm24294	predicted gene, 24294	-4.48406888	0.0017045	0.010211391
ENSMUSG000000093327	Mir5107	microRNA 5107	-1.55487371	0.001706495	0.010221165
ENSMUSG000000020135	Apc2	adenomatous polyposis coli 2	-1.268710765	0.001706923	0.010221553
ENSMUSG000000099760	Gm28800	predicted gene 28800	3.081269183	0.001714534	0.010264948
ENSMUSG000000032221	Mns1	meiosis-specific nuclear structural protein 1	1.360049201	0.001717448	0.010278895
ENSMUSG000000002808	Epdrl	ependymin related protein 1 (zebrafish)	-1.02041807	0.001717594	0.010278895
ENSMUSG000000066191	Anks6	ankyrin repeat and sterile alpha motif domain containing 6	-0.607335969	0.001719298	0.0102869
ENSMUSG000000020220	Vps13d	vacuolar protein sorting 13 D (yeast)	-0.441370901	0.001722234	0.010302276
ENSMUSG000000029616	Erp29	endoplasmic reticulum protein 29	0.447787831	0.001724986	0.010316548
ENSMUSG000000084790	Gm15879	predicted gene 15879	-1.039194433	0.001734677	0.0103723
ENSMUSG000000024953	Prdx5	peroxiredoxin 5	0.653570856	0.001737782	0.010388866
ENSMUSG000000087700	Gm15283	predicted gene 15283	2.241185228	0.001739024	0.010393872
ENSMUSG000000039747	Orai2	ORAI calcium release-activated calcium modulator 2	0.793097097	0.001749244	0.0104492
ENSMUSG000000028779	Pef1	penta-EF hand domain containing 1	0.457381875	0.001748758	0.0104492
ENSMUSG000000020102	Slc16a7	solute carrier family 16 (monocarboxylic acid transporters), member 7	-0.796014076	0.001749395	0.0104492
ENSMUSG000000021904	Sema3g	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3G	-0.817366894	0.001750772	0.010455204
ENSMUSG000000007411	Mark3	MAP/microtubule affinity-regulating kinase 3	0.432017032	0.001754534	0.010475444
ENSMUSG0000000048232	Fbxo10	F-box protein 10	-0.554511429	0.001755214	0.010477285
ENSMUSG000000085156	Gm11974	predicted gene 11974	0.622425933	0.001756928	0.010482244
ENSMUSG000000003039	Fam32a	family with sequence similarity 32, member A	-0.47081592	0.001756624	0.010482244
ENSMUSG000000052331	Ankrd44	ankyrin repeat domain 44	-0.495299929	0.001757163	0.010482244
ENSMUSG000000022314	Rad21	RAD21 homolog (S. pombe)	0.468868101	0.001763103	0.01051545
ENSMUSG000000098905	Zfp953	zinc finger protein 953	-0.558685121	0.001769863	0.010553532
ENSMUSG000000025733	Rhot2	ras homolog gene family, member T2	-0.541487839	0.001770819	0.010566993
ENSMUSG000000021224	Numb	numb gene homolog (Drosophila)	-0.467775359	0.001777774	0.010596211
ENSMUSG000000071112	B230216G23Rik	RIKEN cDNA B230216G23 gene	1.392904863	0.001779694	0.010603161
ENSMUSG000000031708	Tecr	trans-2,3-enoyl-CoA reductase	-0.500087292	0.001779416	0.010603161
ENSMUSG000000027254	Map1a	microtubule-associated protein 1 A	-0.527577516	0.001780201	0.010603937
ENSMUSG000000036526	Card11	caspase recruitment domain family, member 11	-1.602370653	0.001782838	0.010617399
ENSMUSG000000033256	Shf	Src homology 2 domain containing F	-0.655656427	0.001793208	0.010676891
ENSMUSG000000029048	Rer1	RER1 retention in endoplasmic reticulum 1 homolog (S. cerevisiae)	0.467865867	0.001794551	0.010681413
ENSMUSG000000043673	Kcns3	potassium voltage-gated channel, delayed-rectifier, subfamily S, member 3	-1.79756961	0.001794726	0.010681413
ENSMUSG000000063142	Kcnma1	potassium large conductance calcium-activated channel, subfamily M, alpha member 1	-1.220884242	0.001797069	0.01069309
ENSMUSG000000043284	Tmem11	transmembrane protein 11	0.528456119	0.00180179	0.010718918
ENSMUSG000000032285	Dnaja4	DnaJ (Hsp40) homolog, subfamily A, member 4	-0.690382467	0.001805555	0.010739043
ENSMUSG000000031400	G6pdx	glucose-6-phosphate dehydrogenase X-linked	0.471078494	0.001811508	0.010772173
ENSMUSG000000022286	Grih2	grainyhead-like 2 (Drosophila)	-1.336617587	0.001815697	0.010794801
ENSMUSG000000029463	Fam216a	family with sequence similarity 216, member A	0.625469629	0.001816261	0.010795872
ENSMUSG000000027639	Samhd1	SAM domain and HD domain, 1	-0.41999352	0.001818633	0.01080769
ENSMUSG000000006717	Acot13	acyl-CoA thioesterase 13	-0.630778002	0.001821508	0.010822491
ENSMUSG000000040147	Maob	monoamine oxidase B	-1.048644091	0.001825737	0.010845325
ENSMUSG000000015405	Ace2	angiotensin I converting enzyme (peptidyl-dipeptidase A) 2	0.628668105	0.00182805	0.010856771
ENSMUSG000000029718	Pcolce	procollagen C-endopeptidase enhancer protein	0.471735553	0.001830042	0.010862751
ENSMUSG000000042682	Selk	selenoprotein K	0.43473853	0.001830987	0.010862751
ENSMUSG000000020623	Map2k6	mitogen-activated protein kinase kinase 6	-0.525711185	0.001830465	0.010862751
ENSMUSG000000020709	Adap2	ArfGAP with dual PH domains 2	-0.721017452	0.001830755	0.010862751
ENSMUSG000000079662	Ntn3	netrin 3	-1.237422166	0.001829452	0.010862751
ENSMUSG000000070934	Rraga	Ras-related GTP binding A	0.478622807	0.001831599	0.010864088

ENSMUSG0000018565	Elp5	elongator acetyltransferase complex subunit 5	0.484288965	0.00183342	0.010872597
ENSMUSG00000034192	Lsm3	LSM3 homolog, U6 small nuclear RNA associated (S. cerevisiae)	0.569206722	0.001836524	0.01088871
ENSMUSG00000015090	Ptgd3	prostaglandin D2 synthase (brain)	-2.000395781	0.001837734	0.01089359
ENSMUSG00000090066	1110002E22Rik	RIKEN cDNA 1110002E22 gene	-0.954360848	0.001840106	0.010903052
ENSMUSG00000023439	Gnb3	guanine nucleotide binding protein (G protein), beta 3	-2.929281382	0.001839777	0.010903052
ENSMUSG00000033777	Tlr13	toll-like receptor 13	0.866190088	0.001843794	0.010922604
ENSMUSG00000060373	Hnmpc	heterogeneous nuclear ribonucleoprotein C	0.482298154	0.00184763	0.010943029
ENSMUSG00000002844	Adprh	ADP-ribosylarginine hydrolase	0.48301855	0.001852368	0.010968778
ENSMUSG00000020620	Abca8b	ATP-binding cassette, sub-family A (ABC1), member 8b	0.47649709	0.001853464	0.010972962
ENSMUSG00000029003	Mad2l2	MAD2 mitotic arrest deficient-like 2	0.57440422	0.001853861	0.010973001
ENSMUSG00000090889	Gm17428	predicted gene, 17428	-2.790005612	0.001865967	0.011042333
ENSMUSG00000029385	Ccng2	cyclin G2	0.44235282	0.001866673	0.011044189
ENSMUSG00000103476	RP24-79E2.2		-3.268515967	0.001869519	0.011058698
ENSMUSG00000090330	9130221H12Rik	RIKEN cDNA 9130221H12 gene	-0.502394112	0.001877411	0.011110305
ENSMUSG00000047767	Atg16l2	autophagy related 16-like 2 (S. cerevisiae)	-0.481967612	0.001879023	0.011110248
ENSMUSG00000066438	Plekhd1	pleckstrin homology domain containing, family D (with coiled-coil domains) member 1	-1.938703245	0.001879983	0.011112682
ENSMUSG00000035561	Aldh1b1	aldehyde dehydrogenase 1 family, member B1	1.458713261	0.001886078	0.011146195
ENSMUSG00000103711	Tstd1	thiosulfate sulfurtransferase (rhodanese)-like domain containing 1	-0.936638673	0.001886291	0.011146195
ENSMUSG00000074151	Nlr5	NLR family, CARD domain containing 5	-0.52754533	0.001890384	0.011168036
ENSMUSG00000020131	Pcsk4	proprotein convertase subtilisin/kexin type 4	-2.534360444	0.001890787	0.011168066
ENSMUSG00000029254	Stap1	signal transducing adaptor family member 1	-0.974911328	0.001899273	0.011213485
ENSMUSG000000098146	Gm26935	predicted gene, 26935	-1.400217391	0.001899177	0.011213485
ENSMUSG00000022220	Adcy4	adenylate cyclase 4	-0.550005565	0.001899746	0.011213921
ENSMUSG00000019854	Reps1	RaBP1 associated Eps domain containing protein	0.455736846	0.001903299	0.011230627
ENSMUSG00000061894	Zscan20	zinc finger and SCAN domains 20	-0.538200778	0.001903774	0.011230627
ENSMUSG00000101360	4933417O13Rik	RIKEN cDNA 4933417O13 gene	-2.82665014	0.001903729	0.011230627
ENSMUSG00000000093	Tbx2	T-box 2	-0.708757624	0.0019107	0.011266919
ENSMUSG000000097612	Gm26509	predicted gene, 26509	-2.239606922	0.001910727	0.011266919
ENSMUSG00000049904	Tmem17	transmembrane protein 17	1.000696436	0.001912617	0.011275703
ENSMUSG00000061082	Plac1	placental specific protein 1	1.851708953	0.001915733	0.011291708
ENSMUSG00000024829	Mrp121	mitochondrial ribosomal protein L21	0.562716945	0.001916903	0.011296236
ENSMUSG00000028954	Nub1	negative regulator of ubiquitin-like proteins 1	-0.470150366	0.001918625	0.011304015
ENSMUSG00000002032	Tmem25	transmembrane protein 25	-1.804875327	0.001919669	0.011307799
ENSMUSG000000071644	Eef1g	eukaryotic translation elongation factor 1 gamma	0.480499695	0.001920073	0.011307813
ENSMUSG00000040824	Snrpd2	small nuclear ribonucleoprotein D2	0.546370856	0.001927317	0.011348098
ENSMUSG00000016529	Il10	interleukin 10	2.027067868	0.001930606	0.011365082
ENSMUSG00000046805	Mpeg1	macrophage expressed gene 1	0.796707058	0.001932259	0.011372437
ENSMUSG00000032599	Ip6k2	inositol hexaphosphate kinase 2	0.444924717	0.001933622	0.01137808
ENSMUSG00000047789	Slc38a9	solute carrier family 38, member 9	-0.444400172	0.00193777	0.0114001
ENSMUSG00000001249	Hpn	hepsin	1.084598753	0.00194077	0.011415364
ENSMUSG00000023286	Ube2j2	ubiquitin-conjugating enzyme E2J 2	0.48791168	0.001946142	0.011442175
ENSMUSG00000020522	Mfap3	microfibrillar-associated protein 3	0.462422169	0.001945816	0.011442175
ENSMUSG00000019528	Gyg	glycogenin	0.482811656	0.001948531	0.011453827
ENSMUSG00000028385	Snx30	sorting nexin family member 30	-0.53075752	0.001953417	0.011478505
ENSMUSG00000005951	Shpk	sedoheptulokinase	-0.643954658	0.001953545	0.011478505
ENSMUSG00000038576	Susd4	sushi domain containing 4	-1.515151386	0.001954989	0.011484589
ENSMUSG00000033099	Nol12	nucleolar protein 12	0.63008478	0.001956957	0.011493754
ENSMUSG00000030376	Slc8a2	solute carrier family 8 (sodium/calcium exchanger), member 2	-0.947501636	0.001959135	0.011504141
ENSMUSG000000081951	Gm15352	predicted gene 15352	-1.464347288	0.001965078	0.011536634
ENSMUSG00000086679	Gm15551	predicted gene 15551	-3.981023232	0.001966976	0.011545367
ENSMUSG00000096970	2210017G18Rik	RIKEN cDNA 2210017G18 gene	-3.02298503	0.001969848	0.01155981
ENSMUSG00000040327	Cul9	culin 9	-0.664155313	0.001971	0.01156416
ENSMUSG00000093559	Gm20705	predicted gene 20705	-0.649827836	0.001971945	0.011567292
ENSMUSG00000093771	AU023070	expressed sequence AU023070	-2.66959097	0.001973355	0.011573147
ENSMUSG00000030058	Copg1	coatamer protein complex, subunit gamma 1	0.431558132	0.001973932	0.011574119
ENSMUSG00000048621	Gm6377	predicted gene 6377	0.693128296	0.001978579	0.011598952
ENSMUSG00000059994	Fcrl1	Fc receptor-like 1	-1.316344538	0.00197922	0.011600293
ENSMUSG00000028358	Zfp618	zinc finger protein 618	0.930466666	0.001980685	0.011601624
ENSMUSG00000050229	Pigm	phosphatidylinositol glycan anchor biosynthesis, class M	0.460267785	0.001980216	0.011601624
ENSMUSG00000026641	Usf1	upstream transcription factor 1	-0.535907807	0.001980577	0.011601624
ENSMUSG00000020397	Med7	mediator complex subunit 7	0.497085373	0.00198319	0.011613883
ENSMUSG00000100954	Gm10138	predicted gene 10138	-0.956136703	0.001989261	0.011647008
ENSMUSG00000006850	Tmco6	transmembrane and coiled-coil domains 6	-0.623940039	0.001990405	0.011651283
ENSMUSG00000030894	Tpp1	tripeptidyl peptidase 1	-0.419281507	0.002001651	0.011714678
ENSMUSG00000052534	Pbx1	pre B cell leukemia homeobox 1	-0.559278263	0.002007285	0.011745204
ENSMUSG00000039016	Timm8b	translocase of inner mitochondrial membrane 8B	0.517891164	0.002010511	0.011761633
ENSMUSG00000058317	Ube2e2	ubiquitin-conjugating enzyme E2E 2	0.494275318	0.002010954	0.011761779
ENSMUSG00000038079	Tmem237	transmembrane protein 237	0.583033808	0.002012717	0.011769645
ENSMUSG00000079243	Xirp1	xin actin-binding repeat containing 1	-0.728129	0.002014255	0.011776193
ENSMUSG00000089235	Gm23119	predicted gene, 23119	-0.885552058	0.002019313	0.011803313
ENSMUSG00000032454	Rbp2	retinol binding protein 2, cellular	3.283572757	0.002020373	0.011807055
ENSMUSG00000022125	Cln5	ceroid-lipofuscinosis, neuronal 5	0.473572598	0.002022924	0.011819505
ENSMUSG00000100867	Gm18981	predicted gene, 18981	-2.250284832	0.0020287	0.011850795

ENSMUSG00000037098	Rab11flp3	RAB11 family interacting protein 3 (class II)	-0.493219793	0.002032513	0.011870599
ENSMUSG00000086859	2810008D09Rik	RIKEN cDNA 2810008D09 gene	-0.709276844	0.002037704	0.011898446
ENSMUSG00000047420	Fam180a	family with sequence similarity 180, member A	-2.455666589	0.002041385	0.011917471
ENSMUSG00000023277	Twf2	twinfilin, actin-binding protein, homolog 2 (Drosophila)	-0.6189326	0.002042251	0.011920049
ENSMUSG00000001441	Npepps	aminopeptidase puromycin sensitive	0.458712977	0.002050099	0.011958417
ENSMUSG00000021973	Micu2	mitochondrial calcium uptake 2	0.454582268	0.002050015	0.011958417
ENSMUSG00000030094	Xpc	xeroderma pigmentosum, complementation group C	-0.480787188	0.002050018	0.011958417
ENSMUSG00000047866	Lonp2	lon peptidase 2, peroxisomal	-0.432075012	0.002051517	0.011964208
ENSMUSG00000047098	Rnf31	ring finger protein 31	-0.510870149	0.002052843	0.011966978
ENSMUSG00000084894	Gm13834	predicted gene 13834	-0.990629834	0.00205263	0.011966978
ENSMUSG00000024516	Sec11c	SEC11 homolog C (S. cerevisiae)	0.517681315	0.002055765	0.011981526
ENSMUSG00000093726	Gm20667	predicted gene 20667	2.49731039	0.002062501	0.012015807
ENSMUSG00000031284	Pak3	p21 protein (Cdc42/Rac)-activated kinase 3	2.11693632	0.002062373	0.012015807
ENSMUSG00000017485	Top2b	topoisomerase (DNA) II beta	0.452728814	0.002064097	0.012022616
ENSMUSG00000022742	Cpox	coproporphyrinogen oxidase	-0.42131707	0.00206697	0.012036857
ENSMUSG00000041353	Tmem29	transmembrane protein 29	0.598935673	0.002070306	0.012053793
ENSMUSG00000063320	1190007I07Rik	RIKEN cDNA 1190007I07 gene	-0.927114574	0.002073361	0.012069082
ENSMUSG00000078861	Zfp931	zinc finger protein 931	-0.458147347	0.002075146	0.012076972
ENSMUSG00000041936	Agm	agrin	-0.43560429	0.002077783	0.012089819
ENSMUSG00000039488	Cntn5	contactin 5	-2.380645933	0.002078478	0.012091359
ENSMUSG00000061882	Ccdc62	coiled-coil domain containing 62	-0.705634979	0.002079682	0.012095862
ENSMUSG00000062580	Timm17a	translocase of inner mitochondrial membrane 17a	0.453674069	0.002081054	0.012101341
ENSMUSG00000032394	Igdc33	immunoglobulin superfamily, DCC subclass, member 3	-2.567414393	0.002084471	0.012118707
ENSMUSG00000030884	Uqcrc2	ubiquinol cytochrome c reductase core protein 2	0.448789107	0.002088564	0.012139994
ENSMUSG00000095677	Dynl1f	dynein light chain Tctex-type 1F	1.238852603	0.002096214	0.012177693
ENSMUSG00000020101	4632428N05Rik	RIKEN cDNA 4632428N05 gene	-0.428070226	0.002095857	0.012177693
ENSMUSG00000028464	Tpm2	tropomyosin 2, beta	-0.698857447	0.002096348	0.012177693
ENSMUSG00000044573	Acp1	acid phosphatase 1, soluble	0.52058578	0.002108657	0.012246668
ENSMUSG00000025630	Hprt	hypoxanthine guanine phosphoribosyl transferase	0.487766486	0.002113279	0.012268521
ENSMUSG00000033577	Myo6	myosin VI	-0.422493226	0.002113292	0.012268521
ENSMUSG00000081683	Fzd10	frizzled homolog 10 (Drosophila)	-4.042243379	0.00211826	0.012294823
ENSMUSG00000001999	Blvra	biliverdin reductase A	0.501973768	0.002120897	0.012307589
ENSMUSG00000048376	F2r	coagulation factor II (thrombin) receptor	0.427527333	0.002121722	0.012309838
ENSMUSG00000022893	Adamts1	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 1	0.976463363	0.002123945	0.012320196
ENSMUSG00000018750	Zbtb4	zinc finger and BTB domain containing 4	-0.469345796	0.002125792	0.012328369
ENSMUSG00000027787	Nmd3	NMD3 homolog (S. cerevisiae)	0.485507668	0.002131999	0.012361814
ENSMUSG00000024887	Asah2	N-acylsphingosine amidohydrolase 2	0.448831074	0.002136264	0.012383991
ENSMUSG00000063011	Msln	mesothelin	-2.781729778	0.0021391	0.012397876
ENSMUSG00000022883	Robo1	roundabout homolog 1 (Drosophila)	0.743386781	0.002146466	0.012438006
ENSMUSG00000020462	Cfap36	cilia and flagella associated protein 36	0.516691416	0.002151448	0.012464311
ENSMUSG00000026896	Iflh1	interferon induced with helicase C domain 1	-0.415549949	0.002154948	0.012479445
ENSMUSG00000053560	Ier2	immediate early response 2	-0.996957832	0.002154697	0.012479445
ENSMUSG00000000776	Polr3d	polymerase (RNA) III (DNA directed) polypeptide D	0.498660157	0.002160068	0.012506522
ENSMUSG00000040133	Gpr176	G protein-coupled receptor 176	1.088382044	0.002161837	0.012514189
ENSMUSG00000030062	Rpn1	ribophorin I	0.464232491	0.002170831	0.012561554
ENSMUSG00000002475	Abhd3	abhydrolase domain containing 3	-0.999631297	0.002170912	0.012561554
ENSMUSG00000041658	Rragb	Ras-related GTP binding B	-1.550741953	0.002175058	0.012582957
ENSMUSG00000020577	Tspan13	tetraspanin 13	-0.388591253	0.00217628	0.012587438
ENSMUSG000000021709	Erb2ip	Erb2 interacting protein	0.414039505	0.002177441	0.012591559
ENSMUSG00000025586	Cpeb1	cytoplasmic polyadenylation element binding protein 1	-1.382612111	0.002182133	0.012616102
ENSMUSG00000036281	Snappc4	small nuclear RNA activating complex, polypeptide 4	-0.482133506	0.002184352	0.012626333
ENSMUSG00000078902	Gm14443	predicted gene 14443	-1.277263912	0.002187757	0.012643422
ENSMUSG00000025086	Trub1	TruB pseudouridine (psi) synthase homolog 1 (E. coli)	-0.490691574	0.002191065	0.012659936
ENSMUSG00000031198	Fundc2	FUN14 domain containing 2	0.47023081	0.002192249	0.012664175
ENSMUSG00000031762	Mt2	metallothionein 2	3.079475295	0.002211359	0.012771947
ENSMUSG00000032578	Cish	cytokine inducible SH2-containing protein	-0.539226474	0.002213134	0.012779577
ENSMUSG00000064202	4430402118Rik	RIKEN cDNA 4430402118 gene	-0.955601577	0.002219367	0.012812942
ENSMUSG00000031385	Plxn3	plexin B3	-1.231800406	0.002220909	0.012819208
ENSMUSG00000035373	Ccl7	chemokine (C-C motif) ligand 7	1.41284031	0.002222167	0.012823841
ENSMUSG00000089875	Etoh2	ethanol decreased 2	-0.858623815	0.002233881	0.012831098
ENSMUSG00000102222	Pcdhga10	protocadherin gamma subfamily A, 10	-0.517106016	0.002232536	0.012878397
ENSMUSG00000046295	Ankle1	ankyrin repeat and LEM domain containing 1	1.969790868	0.002235731	0.012894182
ENSMUSG00000010175	Prox1	prospero homeobox 1	-0.717655678	0.002236598	0.012894421
ENSMUSG00000038486	Sv2a	synaptic vesicle glycoprotein 2 a	-0.799367892	0.002236689	0.012894421
ENSMUSG00000032481	Smarcc1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 1	0.5042603	0.002240387	0.012907803
ENSMUSG00000031387	Renbp	renin binding protein	0.500148682	0.002240306	0.012907803
ENSMUSG00000020628	Trappc12	trafficking protein particle complex 12	-0.443689031	0.002240018	0.012907803
ENSMUSG00000002265	Peg3	paternally expressed 3	1.272383819	0.002241464	0.012908721
ENSMUSG00000007613	Tgfb1	transforming growth factor, beta receptor I	0.454758559	0.002241304	0.012908721
ENSMUSG00000038037	Socs1	suppressor of cytokine signaling 1	-1.1404103	0.002245958	0.012931955
ENSMUSG00000063564	Col23a1	collagen, type XXIII, alpha 1	1.433393321	0.00225018	0.012953613
ENSMUSG00000031311	Nono	non-POU-domain-containing, octamer binding protein	0.476089247	0.002252607	0.012964931
ENSMUSG00000071454	Dtnb	dystrobrevin, beta	-0.524297091	0.002270183	0.01306342

ENSMUSG00000038718	Pbx3	pre B cell leukemia homeobox 3	0.496496703	0.002271229	0.013066764
ENSMUSG00000024736	Tmem132a	transmembrane protein 132A	0.673981947	0.00227335	0.013076292
ENSMUSG00000002326	Gmpr2	guanosine monophosphate reductase 2	0.553751967	0.002276231	0.013090188
ENSMUSG00000026009	Icos	inducible T cell co-stimulator	-1.10258725	0.002278479	0.013100437
ENSMUSG00000056214	Pard6g	par-6 family cell polarity regulator gamma	-0.582084443	0.002280034	0.013106701
ENSMUSG00000067194	Eif1ax	eukaryotic translation initiation factor 1A, X-linked	0.45054478	0.002285131	0.013133332
ENSMUSG00000035236	Scal	suppressor of cancer cell invasion	-0.44293182	0.002299178	0.013211349
ENSMUSG00000047342	Zfp286	zinc finger protein 286	-0.926326791	0.002305582	0.013245446
ENSMUSG00000003411	Rab3b	RAB3B, member RAS oncogene family	1.672367946	0.002308486	0.013259422
ENSMUSG00000003438	Timm50	translocase of inner mitochondrial membrane 50	0.552616151	0.002309984	0.013265315
ENSMUSG00000097305	Gm17276	predicted gene. 17276	-2.648034705	0.002315184	0.013292465
ENSMUSG00000066607	6030419C18Rik	RIKEN cDNA 6030419C18 gene	-1.623444471	0.002318018	0.013306602
ENSMUSG00000025791	Pgm2	phosphoglucomutase 2	0.442579707	0.002319578	0.013309542
ENSMUSG00000020770	Unk	unkempt homolog (Drosophila)	-0.493496623	0.002319455	0.013309542
ENSMUSG00000030068	Gm20696	predicted gene 20696	-0.635553146	0.002324325	0.013334062
ENSMUSG00000055013	Agap1	ArfGAP with GTPase domain, ankyrin repeat and PH domain 1	-0.45951474	0.002330501	0.013366763
ENSMUSG00000028436	Dcaf12	DDB1 and CUL4 associated factor 12	0.466216667	0.002331235	0.013368253
ENSMUSG00000021062	Rab15	RAB15, member RAS oncogene family	3.377343881	0.002332356	0.01337195
ENSMUSG00000020279	Il9r	interleukin 9 receptor	-2.74279109	0.002336409	0.01339246
ENSMUSG00000020935	Dcakd	dephospho-CoA kinase domain containing	0.537052004	0.00233893	0.013404179
ENSMUSG00000097177	9330159M07Rik	RIKEN cDNA 9330159M07 gene	-0.970099633	0.002348196	0.013454542
ENSMUSG00000057963	Itpk1	inositol 1,3,4-triphosphate 5/6 kinase	-0.63173483	0.002353484	0.013482093
ENSMUSG00000028478	Cita	clathrin, light polypeptide (Lca)	0.444872178	0.002356676	0.013497634
ENSMUSG00000047307	Pcdhb13	protocadherin beta 13	0.689035062	0.002357828	0.013501481
ENSMUSG00000020027	Socs2	suppressor of cytokine signaling 2	0.447187001	0.002361605	0.013520357
ENSMUSG00000025439	Clns1a	chloride channel, nucleotide-sensitive, 1A	0.50940354	0.002365597	0.013540456
ENSMUSG00000061838	Suclq2	succinate-Coenzyme A ligase, GDP-forming, beta subunit	0.47391652	0.002366104	0.013540602
ENSMUSG00000035171	1110059E24Rik	RIKEN cDNA 1110059E24 gene	0.503895527	0.002371788	0.013570373
ENSMUSG00000026037	Orc2	origin recognition complex, subunit 2	0.504668669	0.002374206	0.013581446
ENSMUSG00000036138	Acaa1a	acetyl-Coenzyme A acyltransferase 1A	-0.48974033	0.002374956	0.01358297
ENSMUSG000000103642	RP24-363O16.2		-3.901277704	0.00238121	0.013615973
ENSMUSG00000097385	Gm26814	predicted gene. 26814	-1.976180765	0.002381834	0.01361677
ENSMUSG00000025323	Sp4	trans-acting transcription factor 4	-0.454575668	0.002385066	0.013632478
ENSMUSG00000039218	Srrm2	serine/arginine repetitive matrix 2	-0.434092517	0.002390567	0.013661143
ENSMUSG00000102723	RP24-119110.2		-2.238444012	0.002394714	0.013682064
ENSMUSG00000038195	Rilp	Rab interacting lysosomal protein	-0.522597204	0.002398905	0.013703227
ENSMUSG00000039158	Akna	AT-hook transcription factor	-0.667481943	0.002399572	0.013704254
ENSMUSG00000098158	Gm4804	predicted gene 4804	-1.010022223	0.002406746	0.013742439
ENSMUSG00000017670	Elmo2	engulfment and cell motility 2	-0.46104238	0.00241002	0.01375834
ENSMUSG00000085022	Gm5860	predicted gene 5860	-1.708960886	0.002413982	0.01377816
ENSMUSG00000034832	Tet3	tet methylcytosine dioxygenase 3	0.428877381	0.002415677	0.013785039
ENSMUSG00000024878	Cbwd1	COBW domain containing 1	0.559219405	0.002417946	0.013792389
ENSMUSG00000030551	Nr2f2	nuclear receptor subfamily 2, group F, member 2	-0.451802238	0.002417718	0.013792389
ENSMUSG00000071632	2510002D24Rik	RIKEN cDNA 2510002D24 gene	-0.561110082	0.002424109	0.013824745
ENSMUSG00000068479	Mfap1a	microfibrillar-associated protein 1A	-0.4711739643	0.002430693	0.013859484
ENSMUSG00000098434	2010110E17Rik	RIKEN cDNA 2010110E17 gene	1.625665975	0.002432126	0.013864844
ENSMUSG00000033209	Ttc28	tetratricopeptide repeat domain 28	-0.576852179	0.00243931	0.013902978
ENSMUSG00000027230	Creb3l1	cAMP responsive element binding protein 3-like 1	0.603312677	0.002440316	0.013903079
ENSMUSG00000097348	Rmst	rhabdomyosarcoma 2 associated transcript (non-coding RNA)	-3.202684021	0.00243986	0.013903079
ENSMUSG00000073010	Gm5127	predicted gene 5127	1.67290124	0.002440932	0.013903772
ENSMUSG00000037649	H2-DMa	histocompatibility 2, class II, locus DMa	-1.063077545	0.002441681	0.013905225
ENSMUSG00000047604	Frat2	frequently rearranged in advanced T cell lymphomas 2	0.717806349	0.002450303	0.013951504
ENSMUSG00000027438	Napb	N-ethylmaleimide sensitive fusion protein attachment protein beta	-0.50909712	0.002452437	0.013960829
ENSMUSG00000061613	U2af1	U2 small nuclear ribonucleoprotein auxiliary factor (U2AF) 1	0.532443873	0.002454534	0.013968985
ENSMUSG00000071359	Tbp1l	TATA box binding protein-like 1	0.452255738	0.00245536	0.013968985
ENSMUSG00000025145	Lrrc45	leucine rich repeat containing 45	-0.531606774	0.002455272	0.013968985
ENSMUSG00000030780	BC017158	cDNA sequence BC017158	-0.463715233	0.002471295	0.014056345
ENSMUSG00000030731	Syt3	synaptotagmin III	-2.756968531	0.002471714	0.014056345
ENSMUSG000000103400	RP24-229G16.1		1.106650423	0.002472231	0.014056442
ENSMUSG00000032459	Mrps22	mitochondrial ribosomal protein S22	0.591353721	0.002481659	0.014107195
ENSMUSG00000022043	Trim35	tripartite motif-containing 35	0.437025457	0.002485775	0.014127741
ENSMUSG00000030154	Klr1f1	killer cell lectin-like receptor subfamily B member 1F	-1.701397147	0.002486415	0.014128523
ENSMUSG00000074063	Osgin1	oxidative stress induced growth inhibitor 1	1.128552854	0.002488347	0.014136646
ENSMUSG000000071180	Smim15	small integral membrane protein 15	0.480767674	0.00249661	0.014180725
ENSMUSG000000051236	Msrb3	methionine sulfoxide reductase B3	0.415899006	0.002514492	0.01427941
ENSMUSG000000027189	Trim44	tripartite motif-containing 44	0.416119964	0.00251909	0.014301064
ENSMUSG00000016552	Foxred2	FAD-dependent oxidoreductase domain containing 2	-1.069137804	0.002519321	0.014301064
ENSMUSG00000074604	Mgst2	microsomal glutathione S-transferase 2	-1.702826402	0.00251991	0.014301516
ENSMUSG00000061887	Ssbp3	single-stranded DNA binding protein 3	0.465817742	0.00252132	0.014306635
ENSMUSG00000074206	Adh6b	alcohol dehydrogenase 6B (class V)	1.538284003	0.002535182	0.01438239
ENSMUSG00000032232	Cgnl1	cingulin-like 1	-0.488272559	0.002538019	0.014395584
ENSMUSG00000036745	Tll7	tubulin tyrosine ligase-like family, member 7	0.772643373	0.002543234	0.014422254
ENSMUSG00000028675	Pnrc2	proline-rich nuclear receptor coactivator 2	0.446781957	0.002548286	0.014447991

ENSMUSG00000101612	Gm7933	predicted gene 7933	"-Inf	0.002556481	0.014491534
ENSMUSG00000042167	Papd4	PAP associated domain containing 4	0.49167164	0.00256584	0.014541653
ENSMUSG00000075538	Gm10855	predicted gene 10855	-2.039972005	0.002568399	0.014553224
ENSMUSG00000036983	Tfb1m	transcription factor B1, mitochondrial	-0.585627735	0.002575678	0.014591532
ENSMUSG00000028020	Glrb	glycine receptor, beta subunit	-4.099798561	0.002576247	0.014591817
ENSMUSG00000005312	Ubqln1	ubiquilin 1	0.448939026	0.002577573	0.01459639
ENSMUSG00000016758	Bik	BCL2-interacting killer	0.762392576	0.002592266	0.014676641
ENSMUSG00000031232	Magt1	magnesium transporter 1	0.509503222	0.002595859	0.014694023
ENSMUSG00000020268	Lym7	LYR motif containing 7	-0.923320991	0.002597527	0.014700506
ENSMUSG00000027330	Cdc25b	cell division cycle 25B	0.599003742	0.002601273	0.01471579
ENSMUSG00000039233	Tbce	tubulin-specific chaperone E	0.458691573	0.002600809	0.01471579
ENSMUSG00000042198	Chchd7	coiled-coil-helix-coiled-coil-helix domain containing 7	-0.535265979	0.002605609	0.014737356
ENSMUSG00000026617	Bpnt1	bisphosphate 3'-nucleotidase 1	0.474905857	0.002617601	0.014802202
ENSMUSG000000061458	Nol10	nucleolar protein 10	0.491160676	0.002628333	0.014859907
ENSMUSG00000031561	Tenm3	teneurin transmembrane protein 3	-0.952622724	0.002629221	0.014861943
ENSMUSG00000001494	Sost	sclerostin	1.04208911	0.002638063	0.01490593
ENSMUSG00000032879	Ppp1r9a	protein phosphatase 1, regulatory (inhibitor) subunit 9A	-1.155525755	0.0026379	0.01490593
ENSMUSG00000032649	Colgalt2	collagen beta(1-O)galactosyltransferase 2	-0.354475575	0.002641317	0.014918325
ENSMUSG00000028782	Bal2	brain-specific angiogenesis inhibitor 2	-2.350435392	0.002640923	0.014918325
ENSMUSG00000022337	Emc2	ER membrane protein complex subunit 2	0.469909715	0.002645963	0.014941566
ENSMUSG00000024883	Rin1	Ras and Rab interactor 1	-0.748784279	0.002648421	0.014952446
ENSMUSG000000087368	BC065397	cDNA sequence BC065397	-0.704580697	0.002652032	0.014969829
ENSMUSG00000042747	Krtcap2	keratinocyte associated protein 2	0.492096943	0.002654476	0.014980618
ENSMUSG00000036473	Tbc1d24	TBC1 domain family, member 24	-0.465656522	0.002661849	0.015019214
ENSMUSG00000022814	Umps	uridine monophosphate synthetase	0.588577167	0.002664296	0.015026997
ENSMUSG00000015127	Unkl	unkempt-like (Drosophila)	-0.674947635	0.002664297	0.015026997
ENSMUSG00000026979	Psd4	pleckstrin and Sec7 domain containing 4	-0.963332892	0.002666658	0.015037301
ENSMUSG00000026648	Dclre1c	DNA cross-link repair 1C, PSO2 homolog (S. cerevisiae)	0.420754393	0.002675832	0.015086009
ENSMUSG00000033596	Rfdw3	ring finger and WD repeat domain 3	0.565933232	0.002678837	0.015099924
ENSMUSG000000089744	Gm16146	predicted gene 16146	3.107027804	0.002684096	0.015126539
ENSMUSG00000103467	RP24-288J3.1		-1.108084245	0.002685567	0.015131796
ENSMUSG000000085408	C530005A16Rik	RIKEN cDNA C530005A16 gene	-0.980743528	0.002691046	0.015159629
ENSMUSG000000081520	Gm16200	predicted gene 16200	-1.690350627	0.002697485	0.015192859
ENSMUSG00000032606	Nicn1	nicotin 1	-0.55427244	0.00270508	0.015232587
ENSMUSG00000049680	Urgcp	upregulator of cell proliferation	-0.490179491	0.00270796	0.015245753
ENSMUSG00000029169	Dhx15	DEAH (Asp-Glu-Ala-His) box polypeptide 15	0.444782739	0.002719271	0.015306371
ENSMUSG00000038628	Polr3k	polymerase (RNA) III (DNA directed) polypeptide K	0.525160999	0.002721288	0.015314663
ENSMUSG00000079652	Fam71f2	family with sequence similarity 71, member F2	1.512600258	0.002722613	0.015319057
ENSMUSG00000075284	Wipf1	WAS/WASL interacting protein family, member 1	0.449781003	0.002725921	0.015334601
ENSMUSG00000020889	Nr1d1	nuclear receptor subfamily 1, group D, member 1	-1.107146511	0.002728321	0.015345031
ENSMUSG00000026102	Inpp1	inositol polyphosphate-1-phosphatase	-0.465508408	0.002736215	0.015386356
ENSMUSG000000082936	Gm16166	predicted gene 16166	-3.052531614	0.002738062	0.015393662
ENSMUSG000000046070	Igfals	insulin-like growth factor binding protein, acid labile subunit	-2.904654835	0.002741167	0.015408041
ENSMUSG00000042607	Asb4	ankyrin repeat and SOCS box-containing 4	0.915705374	0.002752882	0.0154708
ENSMUSG00000025158	Rfng	RFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	-0.52022525	0.00276081	0.015512257
ENSMUSG00000037855	Zfp365	zinc finger protein 365	0.685857963	0.00276195	0.015515561
ENSMUSG000000066152	Slc31a2	solute carrier family 31, member 2	0.462907289	0.002767692	0.015538508
ENSMUSG000000014873	Surf2	surfeit gene 2	-0.490533382	0.002767439	0.015538508
ENSMUSG00000024274	Zscan30	zinc finger and SCAN domain containing 30	-1.769076027	0.002766919	0.015538508
ENSMUSG00000029049	Morn1	MORN repeat containing 1	-0.954378097	0.002768822	0.015541753
ENSMUSG00000020430	Pes1	pescadillo homolog 1, containing BRCT domain (zebrafish)	0.470497768	0.0027707	0.015546093
ENSMUSG00000036580	Spg20	spastic paraplegia 20, spartin (Troyer syndrome) homolog (human)	-0.452393464	0.002770504	0.015546093
ENSMUSG00000022991	Lalba	lactalbumin, alpha	1.653393199	0.002779586	0.015590229
ENSMUSG00000032462	Pik3cb	phosphatidylinositol 3-kinase, catalytic, beta polypeptide	0.455557899	0.002779675	0.015590229
ENSMUSG000000045573	Penk	preproenkephalin	-2.574343662	0.002783959	0.015611148
ENSMUSG000000061132	Blnk	B cell linker	-1.095945737	0.00278756	0.015628226
ENSMUSG000000050640	Tmem150c	transmembrane protein 150C	0.960246868	0.002793434	0.015658033
ENSMUSG00000101451	Gm29430	predicted gene 29430	-1.727331711	0.002797273	0.01567643
ENSMUSG00000005034	Prkacb	protein kinase, cAMP dependent, catalytic, beta	0.40981983	0.002799491	0.015685735
ENSMUSG00000022807	Osbpl1	oxysterol binding protein-like 11	0.423165619	0.002803583	0.015705535
ENSMUSG00000102428	PCDHGA12	protocadherin gamma subfamily A, 12	-0.515843442	0.002809209	0.015733918
ENSMUSG00000100876	2810454H06Rik	RIKEN cDNA 2810454H06 gene	-0.63205315	0.002814681	0.015761431
ENSMUSG00000024471	Myot	myotilin	-2.581375547	0.002815721	0.015764118
ENSMUSG000000022200	Golph3	golgi phosphoprotein 3	0.41261927	0.002825411	0.015815219
ENSMUSG000000081209	Gm14890	predicted gene 14890	-2.527427936	0.002826601	0.015818733
ENSMUSG00000028455	Stoml2	stomatin (Epb7.2)-like 2	0.48070725	0.002827412	0.015820124
ENSMUSG000000067369	Trtm2b	TRM2 tRNA methyltransferase 2B	-0.393138694	0.002828303	0.01582196
ENSMUSG00000031133	Arhgef6	Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6	-0.430812061	0.002831717	0.015837912
ENSMUSG00000018916	Csf2	colony stimulating factor 2 (granulocyte-macrophage)	3.790806217	0.00283869	0.015873759
ENSMUSG000000084973	Gm13848	predicted gene 13848	-2.629068018	0.002846232	0.015912765
ENSMUSG000000013539	Tango2	transport and golgi organization 2	-0.979314981	0.002849901	0.015930112
ENSMUSG000000031333	Abcb7	ATP-binding cassette, sub-family B (MDR/TAP), member 7	0.497021625	0.002850622	0.015930978
ENSMUSG00000026090	2010300C02Rik	RIKEN cDNA 2010300C02 gene	1.716921524	0.002856826	0.015962477

ENSMUSG0000005506	Cell1	CUGBP, Elav-like family member 1	0.441190405	0.002857794	0.01596472	
ENSMUSG00000039231	Suv39h1	suppressor of variegation 3-9 homolog 1 (Drosophila)	0.511378045	0.002858784	0.01596675	
ENSMUSG00000038370	Pcp41l	Purkinje cell protein 4-like 1	-0.385631287	0.002859293	0.01596675	
ENSMUSG00000039693	Msantd3	Myb/SANT-like DNA-binding domain containing 3	0.547519345	0.002864151	0.015990706	
ENSMUSG00000034868	My12b	myosin, light chain 12B, regulatory	-0.459473277	0.002867518	0.016006326	
ENSMUSG00000104168	RP23-410B24.2		-1.714481359	0.002873907	0.016038806	
ENSMUSG00000041697	Cox6a1	cytochrome c oxidase subunit VIa polypeptide 1	0.422849919	0.002880513	0.016072483	
ENSMUSG00000025626	Phf6	PHD finger protein 6	0.510991144	0.002890834	0.016125852	
ENSMUSG00000030844	Rgs10	regulator of G-protein signalling 10	-0.528454093	0.002891224	0.016125852	
ENSMUSG00000028447	Dctn3	dynactin 3	0.454684578	0.002891999	0.016126977	
ENSMUSG00000039936	Pik3cd	phosphatidylinositol 3-kinase catalytic delta polypeptide	-0.73559587	0.00289269	0.016127638	
ENSMUSG00000020527	Myo19	myosin XIX	0.597125753	0.002896809	0.016144202	
ENSMUSG00000075703	Ept1	ethanolaminophosphotransferase 1 (CDP-ethanolamine-specific)	0.478297914	0.002896784	0.016144202	
ENSMUSG00000015341	Golga7	golgi autoantigen, golgin subfamily a, 7	0.463258191	0.002903857	0.016178321	
ENSMUSG00000032870	Smap2	small ArfGAP 2	0.449035944	0.002904081	0.016178321	
ENSMUSG00000029860	Zyx	zyxin	0.626000283	0.002906202	0.01618693	
ENSMUSG00000044155	Lsm8	LSM8 homolog, U6 small nuclear RNA associated (S. cerevisiae)	0.46675183	0.002912216	0.016217217	
ENSMUSG00000028958	Tmub1	transmembrane and ubiquitin-like domain containing 1	-0.77930228	0.00291797	0.016246045	
ENSMUSG00000058835	Abi1	abi-interactor 1	0.416956645	0.002919507	0.016249476	
ENSMUSG00000031375	Bgn	biglycan	0.413946805	0.002919742	0.016249476	
ENSMUSG00000046574	Prr12	proline rich 12	-0.869383537	0.002922658	0.01626249	
ENSMUSG00000031669	Gins3	GINS complex subunit 3 (Psf3 homolog)	0.808872352	0.002924704	0.016270652	
ENSMUSG00000032806	Slc10a3	solute carrier family 10 (sodium/bile acid cotransporter family), member 3	0.504701674	0.002926507	0.016277466	
ENSMUSG000000085241	Shhg3	small nucleolar RNA host gene 3	0.639729781	0.002927803	0.016278238	
ENSMUSG00000024163	Mapk8ip3	mitogen-activated protein kinase 8 interacting protein 3	-0.465869732	0.002927505	0.016278238	
ENSMUSG00000063652	Slc22a21	solute carrier family 22 (organic cation transporter), member 21	-0.651113251	0.002930078	0.016287669	
ENSMUSG00000020910	Adprm	ADP-ribose/CDP-alcohol diphosphatase, manganese dependent	-0.447660247	0.002933245	0.016302052	
ENSMUSG00000047084	Ngrn	neugrin, neurite outgrowth associated	-0.484025193	0.002944538	0.01636021	
ENSMUSG000000092730	Snora24	small nucleolar RNA, H/ACA box 24	-0.643680225	0.002944873	0.01636021	
ENSMUSG00000014402	Tsg101	tumor susceptibility gene 101	0.441762457	0.002949526	0.016382826	
ENSMUSG00000044556	Tex38	testis expressed 38		-Inf	0.002950374	0.016384303
ENSMUSG00000037722	Gnpnat1	glucosamine-phosphate N-acetyltransferase 1	0.621124715	0.002955795	0.016411169	
ENSMUSG00000001518	Iltg2	integrin alpha FG-GAP repeat containing 2	-0.515380422	0.002957015	0.0164147	
ENSMUSG00000019210	Atp6v1e1	ATPase, H+ transporting, lysosomal V1 subunit E1	0.434009775	0.002968583	0.016475667	
ENSMUSG00000033597	Caskin1	CASK interacting protein 1	-2.242994986	0.002973382	0.016499046	
ENSMUSG00000031684	Slc10a7	solute carrier family 10 (sodium/bile acid cotransporter family), member 7	0.435762799	0.002975816	0.016508143	
ENSMUSG00000089669	Tnfrsf13	tumor necrosis factor (ligand) superfamily, member 13	-0.92012299	0.002976195	0.016508143	
ENSMUSG00000056770	Setd3	SET domain containing 3	0.440134601	0.002982802	0.016541529	
ENSMUSG00000028952	Zbtb48	zinc finger and BTB domain containing 48	-0.583387155	0.003002238	0.01664349	
ENSMUSG00000061393	Acrv2b	activin receptor IIB	-0.983359122	0.003002371	0.01664349	
ENSMUSG00000030835	Nom1	nodal modulator 1	0.440967282	0.003003242	0.016645036	
ENSMUSG00000087937	Rapgef3os2	Rap guanine nucleotide exchange factor (GEF) 3, opposite strand 2	-1.353933129	0.00300547	0.016654104	
ENSMUSG00000021476	Habp4	hyaluronic acid binding protein 4	-0.485384041	0.003007392	0.016661474	
ENSMUSG00000026113	Inpp4a	inositol polyphosphate-4-phosphatase, type I	-0.422083494	0.003013851	0.016693969	
ENSMUSG00000005846	Rsl1d1	ribosomal L1 domain containing 1	0.469005263	0.003015585	0.016700284	
ENSMUSG00000005813	Metap1	methionyl aminopeptidase 1	0.469859797	0.003016357	0.016701272	
ENSMUSG00000023571	Fam132a	family with sequence similarity 132, member A	0.576547546	0.00301826	0.016705236	
ENSMUSG00000028394	Pole3	polymerase (DNA directed), epsilon 3 (p17 subunit)	0.473800207	0.003017878	0.016705236	
ENSMUSG00000034902	Pip5k1c	phosphatidylinositol-4-phosphate 5-kinase, type I gamma	-0.605343047	0.003019254	0.016707449	
ENSMUSG00000025612	Bach1	BTB and CNC homology 1	0.384200358	0.003031032	0.016769323	
ENSMUSG00000055737	Ghr	growth hormone receptor	0.40822377	0.003033026	0.016777057	
ENSMUSG00000036840	Siah1a	seven in absentia 1A	0.419386392	0.003040573	0.016815497	
ENSMUSG00000029038	Ssu72	Ssu72 RNA polymerase II CTD phosphatase homolog (yeast)	0.433523098	0.003042913	0.016825135	
ENSMUSG00000036120	Rfxank	regulatory factor X-associated ankyrin-containing protein	-0.502928627	0.003065257	0.01694535	
ENSMUSG00000030256	Bhlhe41	basic helix-loop-helix family, member e41	-1.298050741	0.00306639	0.016948279	
ENSMUSG00000022142	Nup155	nucleoporin 155	0.474017696	0.003067336	0.016950178	
ENSMUSG00000031371	Haus7	HAUS augmin-like complex, subunit 7	0.551371683	0.003070704	0.016965461	
ENSMUSG00000029094	Afp1	actin filament associated protein 1	-0.448278655	0.003071916	0.016968825	
ENSMUSG00000021120	Pigh	phosphatidylinositol glycan anchor biosynthesis, class H	-0.457056907	0.003074434	0.016979399	
ENSMUSG00000078570	1110065P20Rik	RIKEN cDNA 1110065P20 gene	0.639610735	0.003077732	0.016994277	
ENSMUSG00000078350	Smim1	small integral membrane protein 1	-0.863882209	0.003083985	0.017025464	
ENSMUSG00000086968	4933431E20Rik	RIKEN cDNA 4933431E20 gene	-0.778960376	0.003092261	0.017067802	
ENSMUSG00000025395	Prim1	DNA primase, p49 subunit	0.98426749	0.003094941	0.017075589	
ENSMUSG00000030796	Tead2	TEA domain family member 2	0.460401453	0.003094731	0.017075589	
ENSMUSG00000027642	Rpn2	ribophorin II	0.440250154	0.003096391	0.017080544	
ENSMUSG00000062646	Ganc	glucosidase, alpha; neutral C	-0.43781634	0.003103451	0.017109423	
ENSMUSG00000033713	Foxn3	forkhead box N3	-0.491833596	0.003102671	0.017109423	
ENSMUSG00000032633	Ficn	folliculin	-0.503600773	0.003103334	0.017109423	
ENSMUSG00000032000	Birc3	baculoviral IAP repeat-containing 3	0.421025966	0.003114236	0.017165517	
ENSMUSG00000029304	Spp1	secreted phosphoprotein 1	2.82706515	0.003119134	0.017185782	
ENSMUSG00000020978	Klhdcc2	kelch domain containing 2	0.448382267	0.003118713	0.017185782	
ENSMUSG00000032279	Idh3a	isocitrate dehydrogenase 3 (NAD+) alpha	0.47617985	0.003127885	0.017230624	
ENSMUSG00000021448	Shc3	src homology 2 domain-containing transforming protein C3	-0.995675065	0.003128691	0.017231619	

ENSMUSG0000004936	Map2k1	mitogen-activated protein kinase kinase 1	0.414534312	0.003133702	0.017255907
ENSMUSG00000026755	Arcp5l	actin related protein 2/3 complex, subunit 5-like	0.472186904	0.003135463	0.01726223
ENSMUSG00000035109	Shc4	SHC (Src homology 2 domain containing) family, member 4	1.561611918	0.003147972	0.017327704
ENSMUSG000000103614	RP24-541A5.3		-1.632028074	0.003157256	0.017375406
ENSMUSG000000031812	Map1lc3b	microtubule-associated protein 1 light chain 3 beta	-0.433858425	0.003166851	0.017424804
ENSMUSG00000046961	Gpr156	G protein-coupled receptor 156	2.073537509	0.003176461	0.01747426
ENSMUSG00000026781	Acbd5	acyl-Coenzyme A binding domain containing 5	0.42399642	0.003180267	0.017488362
ENSMUSG00000003477	Inmt	indolethylamine N-methyltransferase	-2.621386784	0.003180216	0.017488362
ENSMUSG00000027968	Larp7	La ribonucleoprotein domain family, member 7	0.519113806	0.003209768	0.017647138
ENSMUSG00000002217	Emc9	ER membrane protein complex subunit 9	-0.813661622	0.003215584	0.017675662
ENSMUSG00000095956	1700036A12Rik	RIKEN cDNA 1700036A12 gene	2.199615651	0.003222404	0.01770969
ENSMUSG000000092201	A530058N18Rik	RIKEN cDNA A530058N18 gene	-4.388599976	0.003225398	0.017722682
ENSMUSG00000028028	Alpk1	alpha-kinase 1	-0.483847315	0.003226096	0.017723052
ENSMUSG00000003184	Irf3	interferon regulatory factor 3	-0.445538485	0.003230504	0.017743805
ENSMUSG00000020284	1810043G02Rik	RIKEN cDNA 1810043G02 gene	-0.584903697	0.003236105	0.017771097
ENSMUSG00000009549	Srp14	signal recognition particle 14	0.44807897	0.00323761	0.017775895
ENSMUSG000000068015	Lrch1	leucine-rich repeats and calponin homology (CH) domain containing 1	-0.457556234	0.003243256	0.01780342
ENSMUSG00000054648	Zfp869	zinc finger protein 869	-0.45497434	0.003258929	0.017885963
ENSMUSG00000038463	Olfml2b	olfactomedin-like 2B	0.508599387	0.003271066	0.017949072
ENSMUSG00000000244	Tspan32	tetraspanin 32	-1.574012279	0.00327186	0.017949929
ENSMUSG00000030553	Pgpep1l	pyroglutamyl-peptidase I-like	-1.929550101	0.003274979	0.017963539
ENSMUSG000000050296	Abca12	ATP-binding cassette, sub-family A (ABC1), member 12	-2.347455977	0.003281047	0.017993313
ENSMUSG00000046711	Hmga1	high mobility group ATP-hook 1	0.99434421	0.003288419	0.018030226
ENSMUSG000000021809	Nudt13	nudix (nucleoside diphosphate linked moiety X)-type motif 13	-0.471004013	0.003299899	0.018089645
ENSMUSG00000042807	Hecw2	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2	-0.784739593	0.003316358	0.018176327
ENSMUSG00000047117	Ankdd1b	ankyrin repeat and death domain containing 1B	-1.479097623	0.00331738	0.018178391
ENSMUSG000000069895	Atxn1l	ataxin 1-like	0.398363883	0.003320565	0.018188755
ENSMUSG00000000782	Tcf7	transcription factor 7, T cell specific	-0.903255254	0.003320277	0.018188755
ENSMUSG000000023067	Cdkn1a	cyclin-dependent kinase inhibitor 1A (P21)	0.880428486	0.003323247	0.018199903
ENSMUSG00000020331	Hcn2	hyperpolarization-activated, cyclic nucleotide-gated K+ 2	-0.904615231	0.003333002	0.018249774
ENSMUSG000000074749	Kiz	kizuna centrosomal protein	-0.457086119	0.003344105	0.018307005
ENSMUSG00000034390	Cmip	c-Maf inducing protein	-0.454034117	0.00334511	0.018308945
ENSMUSG00000018819	Lsp1	lymphocyte specific 1	-0.692533588	0.003356646	0.018368513
ENSMUSG000000024259	Slc25a46	solute carrier family 25, member 46	0.434899239	0.003375825	0.018469875
ENSMUSG00000044966	Fbxo48	F-box protein 48	1.153024018	0.003379671	0.018487317
ENSMUSG000000028029	Aimp1	aminoacyl tRNA synthetase complex-interacting multifunctional protein 1	0.453666125	0.003381585	0.018492749
ENSMUSG00000026753	Ppp6c	protein phosphatase 6, catalytic subunit	0.43615128	0.003381978	0.018492749
ENSMUSG00000002279	Lmf1	lipase maturation factor 1	-0.575476585	0.003383618	0.018498118
ENSMUSG00000055254	Ntrk2	neurotrophic tyrosine kinase, receptor, type 2	-0.597971813	0.003385848	0.018506716
ENSMUSG000000091264	Smim13	small integral membrane protein 13	0.467576314	0.003405938	0.018612908
ENSMUSG00000039814	Xkr5	X Kell blood group precursor-related family, member 5	1.39563778	0.003408379	0.018619014
ENSMUSG00000059493	Nhs	Nance-Horan syndrome (human)	0.568339098	0.003408369	0.018619014
ENSMUSG000000020612	Prkar1a	protein kinase, cAMP dependent regulatory, type I, alpha	0.406015627	0.003410372	0.018622669
ENSMUSG00000029319	Coq2	coenzyme Q2 homolog, prenyltransferase (yeast)	-0.465702632	0.00340974	0.018622669
ENSMUSG000000061533	Cep128	centrosomal protein 128	0.579764463	0.003418046	0.018659159
ENSMUSG00000014313	Cox6c	cytochrome c oxidase subunit VIc	0.429126992	0.003418381	0.018659159
ENSMUSG00000042548	Asx1	additional sex combs like 1	0.418585473	0.003426598	0.018700383
ENSMUSG000000025026	Add3	adducin 3 (gamma)	-0.442089855	0.003427628	0.018702377
ENSMUSG00000029397	Rchy1	ring finger and CHY zinc finger domain containing 1	0.438599333	0.003430565	0.018711146
ENSMUSG00000033196	Myh2	myosin, heavy polypeptide 2, skeletal muscle, adult	-3.669757271	0.003429957	0.018711146
ENSMUSG000000102574	RP23-212H4.3		-1.955549185	0.003433706	0.018724646
ENSMUSG000000086794	Gm11642	predicted gene 11642	-2.18355394	0.003452793	0.01882508
ENSMUSG00000030054	Gp9	glycoprotein 9 (platelet)	-1.494656684	0.003454284	0.018829565
ENSMUSG000000104378	RP23-323H18.2		0.63047448	0.003459722	0.018853351
ENSMUSG000000029376	Mthfd2l	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2-like	0.517858866	0.003459988	0.018853351
ENSMUSG00000029730	Mcm7	minichromosome maintenance deficient 7 (S. cerevisiae)	0.668972483	0.003470779	0.018908486
ENSMUSG000000061981	Flot2	flotillin 2	0.503166266	0.003473413	0.018919173
ENSMUSG00000033813	Tcea1	transcription elongation factor A (SII) 1	0.509865819	0.003483525	0.018963237
ENSMUSG00000070697	Utp3	UTP3, small subunit (SSU) processome component, homolog (S. cerevisiae)	0.459608191	0.003483208	0.018963237
ENSMUSG00000050947	Amigo1	adhesion molecule with Ig like domain 1	-0.452571089	0.003482189	0.018963237
ENSMUSG00000018923	Med11	mediator complex subunit 11	0.602715299	0.003486414	0.018971623
ENSMUSG00000035941	Ibtk	inhibitor of Bruton agammaglobulinemia tyrosine kinase	0.471742779	0.003486234	0.018971623
ENSMUSG00000025499	Hras	Harvey rat sarcoma virus oncogene	0.414131148	0.003503397	0.01906035
ENSMUSG00000030035	Wbp1	WW domain binding protein 1	-0.592775763	0.003517749	0.019134731
ENSMUSG00000030826	Bcat2	branched chain aminotransferase 2, mitochondrial	0.466232996	0.003520754	0.019147376
ENSMUSG000000084819	Gm11967	predicted gene 11967	-3.314222938	0.003524943	0.019166451
ENSMUSG00000015120	Ube2i	ubiquitin-conjugating enzyme E2i	0.385460892	0.003526658	0.019168365
ENSMUSG000000102305	RP24-176F12.12		-1.519447828	0.003526613	0.019168365
ENSMUSG00000005566	Trim28	tripartite motif-containing 28	0.427603278	0.003538229	0.019223565
ENSMUSG00000074505	Fat3	FAT tumor suppressor homolog 3 (Drosophila)	-0.57133381	0.003538863	0.019223565
ENSMUSG00000038354	Ankrd35	ankyrin repeat domain 35	-1.634962491	0.003538238	0.019223565
ENSMUSG00000025451	Paip1	polyadenylate binding protein-interacting protein 1	0.433468447	0.0035456	0.019256439
ENSMUSG000000104150	RP23-402K24.1		-0.98200758	0.003548754	0.019269849

ENSMUSG00000019810	Fuca2	fucosidase, alpha-L- 2, plasma	-0.532621808	0.003560999	0.019332608
ENSMUSG000000031545	Acpat6	1-acylglycerol-3-phosphate O-acyltransferase 6 (lysophosphatidic acid acyltransferase, zeta)	0.437979154	0.003562613	0.019337642
ENSMUSG000000052957	Gas1	growth arrest specific 1	0.497583641	0.003566608	0.019355592
ENSMUSG00000006777	Krt23	keratin 23	4.613076743	0.003567909	0.019358918
ENSMUSG000000020256	Aldh1l2	aldehyde dehydrogenase 1 family, member L2	-0.649687008	0.003570188	0.019367545
ENSMUSG000000057182	Scn3a	sodium channel, voltage-gated, type III, alpha	-0.553700608	0.003578047	0.019406438
ENSMUSG000000055865	Fam19a3	family with sequence similarity 19, member A3	0.578954747	0.003588985	0.019462009
ENSMUSG000000041609	Ccdc64	coiled-coil domain containing 64	-0.820920201	0.003592095	0.01947512
ENSMUSG000000047583	Tyw3	tRNA-yW synthesizing protein 3 homolog (S. cerevisiae)	-0.582838847	0.00359963	0.019512215
ENSMUSG000000023868	Pde10a	phosphodiesterase 10A	0.45231194	0.003606546	0.019545937
ENSMUSG000000038560	Sp6	trans-acting transcription factor 6	-1.72547989	0.003616362	0.019595362
ENSMUSG000000048351	Coa7	cytochrome c oxidase assembly factor 7	-0.519657756	0.003631245	0.019672218
ENSMUSG000000026664	Phyh	phytanoyl-CoA hydroxylase	-0.445013597	0.003636952	0.019699339
ENSMUSG000000032557	Uba5	ubiquitin-like modifier activating enzyme 5	0.464462788	0.003641467	0.019719998
ENSMUSG000000025510	Cd151	CD151 antigen	0.388460147	0.003644467	0.019732445
ENSMUSG000000034570	Inpp5j	inositol polyphosphate 5-phosphatase J	-1.246344815	0.003647509	0.019745119
ENSMUSG000000025157	Zdhc16	zinc finger, DHHC domain containing 16	0.461083016	0.003650975	0.019756277
ENSMUSG000000032338	Hcn4	hyperpolarization-activated, cyclic nucleotide-gated K+ 4	-2.243590305	0.003650595	0.019756277
ENSMUSG000000031196	F8	coagulation factor VIII	0.659509103	0.003657254	0.019786447
ENSMUSG000000032258	Lca5	Leber congenital amaurosis 5 (human)	0.551271624	0.00366935	0.019847094
ENSMUSG000000013822	Elof1	elongation factor 1 homolog (ELF1, S. cerevisiae)	0.478320658	0.003669875	0.019847094
ENSMUSG000000013495	Tmem175	transmembrane protein 175	-0.535748491	0.003671411	0.019851586
ENSMUSG000000031023	Akip1	A kinase (PKA) interacting protein 1	0.648278906	0.00368263	0.019904782
ENSMUSG000000025658	Cnksr2	connector enhancer of kinase suppressor of Ras 2	-2.182856936	0.003682664	0.019904782
ENSMUSG000000049122	Fmrd3	FERM domain containing 3	-1.77631082	0.00369664	0.019976484
ENSMUSG000000038233	Fam198a	family with sequence similarity 198, member A	-1.958819	0.003698034	0.01998018
ENSMUSG000000044712	Slc38a6	solute carrier family 38, member 6	-0.510445942	0.003703323	0.020004912
ENSMUSG000000102160	RP24-222G3.1		-2.055398054	0.003710232	0.020038386
ENSMUSG000000062949	Atp11c	ATPase, class VI, type 11C	-0.414397073	0.003712365	0.02004606
ENSMUSG000000023307	5-Mar	membrane-associated ring finger (C3HC4) 5	0.456570783	0.00372917	0.020125212
ENSMUSG000000028246	Faxc	failed axon connections homolog (Drosophila)	-0.931779457	0.003728238	0.020125212
ENSMUSG000000020491	2810021J22Rik	RIKEN cDNA 2810021J22 gene	-1.023664135	0.003728588	0.020125212
ENSMUSG000000069273	Hist1h3e	histone cluster 1, H3e	0.992003341	0.003730693	0.020129574
ENSMUSG000000029372	Pbbp	pro-platelet basic protein	-1.002402613	0.003734348	0.020145428
ENSMUSG000000019998	Stx7	syntaxin 7	0.427829174	0.003749825	0.020225041
ENSMUSG000000047878	A4galt	alpha 1,4-galactosyltransferase	-0.660727185	0.003759788	0.020227292
ENSMUSG000000094707	A830019P07Rik	RIKEN cDNA A830019P07 gene	-1.772668074	0.003760119	0.020227292
ENSMUSG000000040928	S100bpb	S100P binding protein	0.434118474	0.003761299	0.020275271
ENSMUSG000000047539	Fbxo2b	F-box protein 28	0.429868354	0.003764941	0.020291015
ENSMUSG000000035107	Dcbld2	discoidin, CUB and LCCL domain containing 2	0.430613711	0.00376911	0.02030959
ENSMUSG000000095651	Gm21817	predicted gene, 21817	-1.500267874	0.003784869	0.020390601
ENSMUSG000000049299	Trappc1	trafficking protein particle complex 1	0.489812489	0.003789181	0.020409926
ENSMUSG000000040562	Gstm2	glutathione S-transferase, mu 2	0.429045926	0.003794766	0.020436095
ENSMUSG000000054499	Dedd2	death effector domain-containing DNA binding protein 2	-0.781539805	0.003795619	0.020436775
ENSMUSG000000040034	Nup43	nucleoporin 43	0.724109121	0.003799028	0.020451217
ENSMUSG000000075270	Pde11a	phosphodiesterase 11A	-3.814234004	0.003803813	0.020473056
ENSMUSG000000022386	Tmru	tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase	-0.477737139	0.003814464	0.020522531
ENSMUSG000000010047	Hyal2	hyaluronoglucosaminidase 2	-0.871009767	0.003813785	0.020522531
ENSMUSG000000020949	Fkbp3	FK506 binding protein 3	-0.360683995	0.003833539	0.020621215
ENSMUSG000000022400	Rbx1	ring-box 1	0.437900616	0.003834773	0.020623909
ENSMUSG000000026819	Slc25a25	solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 25	0.890368223	0.003850521	0.020704644
ENSMUSG000000047067	Dusp28	dual specificity phosphatase 28	-0.800883985	0.003851872	0.020707953
ENSMUSG000000035441	Myo1d	myosin ID	0.396944428	0.00385377	0.020713705
ENSMUSG000000089762	Ier5l	immediate early response 5-like	-0.695372948	0.003854415	0.020713705
ENSMUSG000000023764	Sfi1	Sfi1 homolog, spindle assembly associated (yeast)	-0.500900426	0.003857062	0.020723973
ENSMUSG000000024986	Hhex	hematopoietically expressed homeobox	0.487529995	0.003861926	0.020746143
ENSMUSG000000038453	Srcin1	SRC kinase signaling inhibitor 1	-2.03135615	0.003868571	0.020777877
ENSMUSG000000038685	Rtel1	regulator of telomere elongation helicase 1	0.489229506	0.003871135	0.020787677
ENSMUSG000000044224	Dnajc21	DnaJ (Hsp40) homolog, subfamily C, member 21	0.474051695	0.003873163	0.0207946
ENSMUSG000000087594	BC039771	cDNA sequence BC039771	-1.112561213	0.003879528	0.020824798
ENSMUSG000000073274	Gm14636	predicted gene 14636	0.509156242	0.00388173	0.020829692
ENSMUSG000000024132	Eci1	enoyl-Coenzyme A delta isomerase 1	-0.432902876	0.003881921	0.020829692
ENSMUSG000000020876	Srx11	sorting nexin 11	-0.439604165	0.003882898	0.020830962
ENSMUSG000000028532	Cachd1	cache domain containing 1	0.511731012	0.003900019	0.020917724
ENSMUSG000000051098	Mblac2	metallo-beta-lactamase domain containing 2	-0.626911337	0.003900557	0.020917724
ENSMUSG000000020183	Cpm	carboxypeptidase M	0.391338467	0.003903672	0.020930435
ENSMUSG000000030683	Sez6l2	seizure related 6 homolog like 2	0.409986906	0.00390988	0.020953937
ENSMUSG000000073616	Myeov2	myeloma overexpressed 2	0.483889022	0.003909801	0.020955313
ENSMUSG000000031660	Brd7	bromodomain containing 7	0.46013657	0.003932616	0.021073581
ENSMUSG000000026283	Ing5	inhibitor of growth family, member 5	-0.441300451	0.003946029	0.021141426
ENSMUSG000000038116	Phf20	PHD finger protein 20	0.415740949	0.003949992	0.021158633
ENSMUSG000000043019	Edem3	ER degradation enhancer, mannosidase alpha-like 3	0.427226166	0.003963323	0.021225997
ENSMUSG000000074461	Gm10699	predicted gene 10699	-0.910825128	0.003969622	0.021255689

ENSMUSG00000017188	Coa3	cytochrome C oxidase assembly factor 3	0.505595536	0.003974473	0.021277613
ENSMUSG00000006589	Aprt	adenine phosphoribosyl transferase	0.649214889	0.003979135	0.021298519
ENSMUSG000000021936	Mapk8	mitogen-activated protein kinase 8	0.418245894	0.003984311	0.021322164
ENSMUSG000000089662	Gm14057	predicted gene 14057	0.962864246	0.004007608	0.021442762
ENSMUSG000000034768	Asb16	ankyrin repeat and SOCS box-containing 16	-4.468937242	0.004008372	0.021442769
ENSMUSG00000102573	RP23-29616.8		-0.599508552	0.004014584	0.021471919
ENSMUSG000000079108	Srp54b	signal recognition particle 54B	0.563491123	0.004019987	0.021496728
ENSMUSG000000025860	Xiap	X-linked inhibitor of apoptosis	0.401905719	0.004034348	0.021569427
ENSMUSG00000002658	Gtf2f1	general transcription factor IIF, polypeptide 1	0.441220709	0.004039146	0.021590972
ENSMUSG000000003099	Ndufa9	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9	0.423055626	0.004051119	0.021650859
ENSMUSG000000021133	4933426M11Rik	RIKEN cDNA 4933426M11 gene	0.36608487	0.004055247	0.021668805
ENSMUSG000000032392	Parp16	poly (ADP-ribose) polymerase family, member 16	0.509165309	0.00405714	0.021674803
ENSMUSG000000043257	Pigv	phosphatidylinositol glycan anchor biosynthesis, class V	-0.540164471	0.004062555	0.021699611
ENSMUSG000000079442	St6galnac4	ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 4	-0.454652828	0.004077706	0.021772273
ENSMUSG000000024338	Psmb8	proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)	-0.541292395	0.004076936	0.021772273
ENSMUSG000000043702	Pde12	phosphodiesterase 12	-0.495149355	0.004083811	0.021800733
ENSMUSG000000042447	Mios	missing oocyte, meiosis regulator, homolog (Drosophila)	0.434736827	0.004086192	0.021809277
ENSMUSG000000078937	Cpt1b	carnitine palmitoyltransferase 1b, muscle	-1.422422236	0.004086962	0.021809277
ENSMUSG000000042428	Mgat3	mannoside acetylglucosaminyltransferase 3	-0.594047285	0.004093061	0.021837681
ENSMUSG000000036197	Gxylt1	glucoside xylosyltransferase 1	0.43227403	0.004097366	0.021856503
ENSMUSG000000025722	Wdr73	WD repeat domain 73	0.460237472	0.004107952	0.021908816
ENSMUSG000000032375	Aph1b	anterior pharynx defective 1b homolog (C. elegans)	-0.49138816	0.004131178	0.02202851
ENSMUSG000000031016	Wee1	WEE 1 homolog 1 (S. pombe)	0.532073258	0.004136988	0.022055531
ENSMUSG000000028760	Eif4g3	eukaryotic translation initiation factor 4 gamma, 3	0.406887053	0.004144379	0.02209053
ENSMUSG000000029575	Mmab	methylmalonic aciduria (cobalamin deficiency) type B homolog (human)	-0.547432503	0.004151444	0.022123996
ENSMUSG000000029142	Mrp133	mitochondrial ribosomal protein L33	0.44290798	0.004155317	0.022128408
ENSMUSG00000004880	Lbr	lamin B receptor	0.441052659	0.004155418	0.022128408
ENSMUSG000000026604	Ptpn14	protein tyrosine phosphatase, non-receptor type 14	-0.444029516	0.004153928	0.022128408
ENSMUSG000000098001	Gm27048	predicted gene, 27048	-1.107156751	0.004154638	0.022128408
ENSMUSG000000032463	Faim	Fas apoptotic inhibitory molecule	0.534625006	0.004157376	0.022134642
ENSMUSG000000064215	Ifi27	interferon, alpha-inducible protein 27	0.419004037	0.004158328	0.022135525
ENSMUSG000000033732	Sf3b3	splicing factor 3b, subunit 3	0.43811709	0.004159704	0.022138657
ENSMUSG000000024891	Slc29a2	solute carrier family 29 (nucleoside transporters), member 2	-1.319787784	0.004184821	0.022268123
ENSMUSG000000067288	Rps28	ribosomal protein S28	0.48392816	0.004190714	0.022295266
ENSMUSG000000062694	Cav3	caveolin 3	-1.192289144	0.004192506	0.022300582
ENSMUSG000000097835	Gm26910	predicted gene, 26910	-1.014389262	0.004200026	0.022336355
ENSMUSG000000022754	Tmem45a	transmembrane protein 45a	1.008121575	0.004203272	0.022349393
ENSMUSG000000022548	Apod	apolipoprotein D	1.031512529	0.004207578	0.022368061
ENSMUSG000000021379	Id4	inhibitor of DNA binding 4	-0.736915708	0.004212003	0.022387359
ENSMUSG000000040550	Otud6b	OTU domain containing 6B	0.463740659	0.004214832	0.022398161
ENSMUSG000000021963	Sap18	Sin3-associated polypeptide 18	-0.404452466	0.004215963	0.022399943
ENSMUSG000000090673	Gm340	predicted gene 340	0.433400771	0.004223621	0.022435937
ENSMUSG000000037477	Tbx10	T-box 10	-2.695969394	0.004224333	0.022435937
ENSMUSG000000056755	Grm7	glutamate receptor, metabotropic 7	-1.152721921	0.004228136	0.022451899
ENSMUSG000000002980	Bcam	basal cell adhesion molecule	-0.938939519	0.004244843	0.022536361
ENSMUSG000000062175	Tgfb2	TGF-beta-induced factor homeobox 2	0.583690622	0.004246819	0.022542594
ENSMUSG000000038235	F11r	F11 receptor	0.399132603	0.004252254	0.02256719
ENSMUSG000000099624	Gm7889	predicted gene 7889	-2.874522603	0.00425518	0.022578456
ENSMUSG000000027353	Mcm8	minichromosome maintenance deficient 8 (S. cerevisiae)	0.888793265	0.004256304	0.022580162
ENSMUSG000000023106	Denr	density-regulated protein	0.482220961	0.004272015	0.02265924
ENSMUSG000000031565	Fgfr1	fibroblast growth factor receptor 1	0.553483403	0.004302935	0.022818941
ENSMUSG000000028494	Plin2	perilipin 2	0.798170097	0.004304984	0.022825503
ENSMUSG000000036678	Aaas	achalasia, adrenocortical insufficiency, alacrimia	0.48132629	0.004307555	0.022834829
ENSMUSG000000025531	Chm	choroideremia	0.424800381	0.004312347	0.022855929
ENSMUSG000000036622	Atp13a2	ATPase type 13A2	-0.901034705	0.004316333	0.022872742
ENSMUSG000000028164	Manba	mannosidase, beta A, lysosomal	0.422049766	0.004322804	0.022899901
ENSMUSG000000027580	Helz2	helicase with zinc finger 2, transcriptional coactivator	-0.432952245	0.004323086	0.022899901
ENSMUSG000000022750	Klhl22	kelch-like 22	-0.421976408	0.004330182	0.022933172
ENSMUSG000000068290	Ddrgk1	DDRKG domain containing 1	-0.477491005	0.004332591	0.02294161
ENSMUSG000000039427	Alg1	asparagine-linked glycosylation 1 (beta-1,4-mannosyltransferase)	-0.497188582	0.004342402	0.022989237
ENSMUSG000000072772	Grccl0	gene rich cluster, C10 gene	-0.728382386	0.004353334	0.023042776
ENSMUSG000000092586	Ly6g6c	lymphocyte antigen 6 complex, locus G6C	-1.51392961	0.004357646	0.023061259
ENSMUSG000000021279	Cdc42bbp	CDC42 binding protein kinase beta	0.395929464	0.004364506	0.023093217
ENSMUSG000000051234	Rnf7	ring finger protein 7	0.454397606	0.004366798	0.023101004
ENSMUSG000000028737	Aldh4a1	aldehyde dehydrogenase 4 family, member A1	-0.500018222	0.00436892	0.023107882
ENSMUSG000000029328	Hnrnpdl	heterogeneous nuclear ribonucleoprotein D-like	0.400384864	0.004388729	0.023208289
ENSMUSG000000068606	Gm4841	predicted gene 4841	1.438273678	0.00441197	0.023326808
ENSMUSG000000027243	Harbi1	harbinger transposase derived 1	-0.584868683	0.004422716	0.023379232
ENSMUSG000000097577	6230400D17Rik	RIKEN cDNA 6230400D17 gene	-1.341738363	0.004428099	0.023403289
ENSMUSG000000037894	H2afz	H2A histone family, member Z	0.530114848	0.004445728	0.023492047
ENSMUSG000000046743	Fat4	FAT tumor suppressor homolog 4 (Drosophila)	-0.39465182	0.004461086	0.023568778
ENSMUSG000000031792	Urb1	U6 snRNA biogenesis 1	0.502015828	0.004463355	0.023571913
ENSMUSG000000030309	Caprin2	caprin family member 2	-0.552599676	0.004462528	0.023571913

ENSMUSG00000032328	Tmem30a	transmembrane protein 30A	0.415081837	0.004466054	0.023581736
ENSMUSG00000028567	Txndc12	thioredoxin domain containing 12 (endoplasmic reticulum)	0.440280739	0.004468665	0.023591094
ENSMUSG00000051007	Pddc1	Parkinson disease 7 domain containing 1	-0.538600337	0.004473303	0.023611152
ENSMUSG00000029027	Dffb	DNA fragmentation factor, beta subunit	-0.474601949	0.004480581	0.023645129
ENSMUSG00000028676	Srsf10	serine/arginine-rich splicing factor 10	0.470867093	0.004484121	0.023659373
ENSMUSG00000020598	Nrcam	neuronal cell adhesion molecule	-1.080650445	0.004487308	0.023671751
ENSMUSG00000036641	Ccdc148	coiled-coil domain containing 148	-1.118976645	0.004497604	0.023721617
ENSMUSG00000090523	Gypc	glycophorin C	0.441064619	0.00449882	0.023723581
ENSMUSG00000034653	Ythdc2	YTH domain containing 2	0.455842713	0.00451574	0.023808341
ENSMUSG00000039209	Rpl39l	ribosomal protein L39-like	2.238674466	0.004518769	0.023813176
ENSMUSG00000004677	Myo9b	myosin IXb	0.394063629	0.004519196	0.023813176
ENSMUSG00000022508	Bcl6	B cell leukemia/lymphoma 6	-0.729174567	0.004518	0.023813176
ENSMUSG00000045322	Tlr9	tol-like receptor 9	-1.788269862	0.004528053	0.023855379
ENSMUSG00000010803	Gabra1	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 1	2.93825701	0.004530429	0.023863424
ENSMUSG00000071662	Polr2g	polymerase (RNA) II (DNA directed) polypeptide G	0.451616354	0.004535797	0.023880182
ENSMUSG00000034781	Gna11	guanine nucleotide binding protein, alpha 11	-0.500717475	0.004535375	0.023880182
ENSMUSG00000032259	Drd2	dopamine receptor D2	-3.00525499	0.004536157	0.023880182
ENSMUSG00000031994	Adamts8	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 8	-0.701841044	0.004548343	0.023939858
ENSMUSG00000038708	Golga4	golgi autoantigen, golgin subfamily a, 4	-0.419907598	0.004549721	0.02394263
ENSMUSG00000034247	Plekhm1	pleckstrin homology domain containing, family M (with RUN domain) member 1	-0.458466131	0.004551429	0.023944764
ENSMUSG00000041075	Fzd7	frizzled homolog 7 (Drosophila)	-0.512628785	0.004551829	0.023944764
ENSMUSG00000032293	Ireb2	iron responsive element binding protein 2	0.43631792	0.004554678	0.023955273
ENSMUSG00000049932	H2afx	H2A histone family, member X	0.617201418	0.004558997	0.02397138
ENSMUSG00000092277	Gm19684	predicted gene, 19684	-0.839164298	0.004559445	0.02397138
ENSMUSG00000032182	Yip1f2	Yip1 domain family, member 2	-0.47308263	0.004565224	0.02399728
ENSMUSG00000016554	Eif3d	eukaryotic translation initiation factor 3, subunit D	0.396602013	0.004575703	0.024047869
ENSMUSG00000039000	Ube3c	ubiquitin protein ligase E3C	0.438953086	0.004582904	0.024081218
ENSMUSG00000022967	Ilnar1	interferon (alpha and beta) receptor 1	0.406572184	0.004584169	0.024083367
ENSMUSG00000025140	Pycr1	pyrroline-5-carboxylate reductase 1	1.521727562	0.004590531	0.024112285
ENSMUSG00000037640	Zfp60	zinc finger protein 60	-0.431724263	0.00459237	0.024117445
ENSMUSG00000021124	Vti1b	vesicle transport through interaction with t-SNAREs 1B	0.421340682	0.004593903	0.02412099
ENSMUSG00000028943	Espin	espin	-2.191180924	0.004594884	0.024121643
ENSMUSG00000007279	Scube2	signal peptide, CUB domain, EGF-like 2	-0.923508398	0.004604177	0.024165914
ENSMUSG00000027599	Armc1	armadillo repeat containing 1	0.467103774	0.004609128	0.024187389
ENSMUSG00000023967	Mrps18a	mitochondrial ribosomal protein S18A	0.479719665	0.004611158	0.02419353
ENSMUSG000000046413	Irx3os	iroquois homeobox 3, opposite strand	-1.857547474	0.004620213	0.024236517
ENSMUSG00000033083	Tbc1d4	TBC1 domain family, member 4	-0.508858531	0.004652978	0.024403849
ENSMUSG00000075702	Selm	selenoprotein M	-0.774316849	0.004655147	0.024410671
ENSMUSG00000003355	Fkbp11	FK506 binding protein 11	1.290566157	0.004668186	0.024474483
ENSMUSG000000040102	Klhl42	kelch-like 42	-0.361216217	0.004677952	0.024521116
ENSMUSG00000022651	Retnlg	resistin like gamma	-1.994372529	0.004679162	0.02452289
ENSMUSG00000034471	Caskin2	CASK-interacting protein 2	-0.819736255	0.004684637	0.02454701
ENSMUSG000000060126	Tpt1	tumor protein, translationally-controlled 1	-0.449388845	0.004689501	0.024567923
ENSMUSG00000032898	Fbxo21	F-box protein 21	-0.448093377	0.004691335	0.024572951
ENSMUSG00000086914	Gm16124	predicted gene 16124	-1.450328174	0.004699881	0.024613133
ENSMUSG00000097101	1810034E14Rik	RIKEN cDNA 1810034E14 gene	-1.46783151	0.004708067	0.024651416
ENSMUSG00000038126	Mphosph9	M-phase phosphoprotein 9	0.508479175	0.004710207	0.024658032
ENSMUSG00000028898	Tmau1ap	tRNA selenocysteine 1 associated protein 1	-0.468848579	0.004724566	0.024728598
ENSMUSG00000033623	Pcgf3	polycomb group ring finger 3	0.408755143	0.004739991	0.024799683
ENSMUSG00000028426	Rad23b	RAD23b homolog (S. cerevisiae)	0.4011515	0.004739693	0.024799683
ENSMUSG00000054939	Zfp174	zinc finger protein 174	-0.680248471	0.004744776	0.024820526
ENSMUSG000000042121	Ssh1	slingshot homolog 1 (Drosophila)	-0.432739827	0.004746827	0.024826639
ENSMUSG00000024529	Lox	lysyl oxidase	0.441990852	0.004751545	0.024846696
ENSMUSG00000041528	Rnf123	ring finger protein 123	-0.455488262	0.004752564	0.024847403
ENSMUSG000000084756	Gm13881	predicted gene 13881	-3.878270692	0.004764712	0.024906289
ENSMUSG00000025265	Fgd1	FYVE, RhoGEF and PH domain containing 1	0.504653688	0.004766147	0.024909161
ENSMUSG00000063687	Pcdhb5	protocadherin beta 5	1.031662781	0.004769813	0.024921372
ENSMUSG00000088249	Gm25908	predicted gene, 25908	-1.83385764	0.004770255	0.024921372
ENSMUSG00000002104	Rapsn	receptor-associated protein of the synapse	-1.642763351	0.00478226	0.02497945
ENSMUSG00000027080	Med19	mediator complex subunit 19	0.492177296	0.004783181	0.024979625
ENSMUSG00000027247	Arhgap1	Rho GTPase activating protein 1	0.401121416	0.004788456	0.025002531
ENSMUSG00000024816	Frmf8	FERM domain containing 8	0.426933034	0.0047947	0.025030488
ENSMUSG00000023966	RspH9	radial spoke head 9 homolog (Chlamydomonas)	-1.222404152	0.004802874	0.025068507
ENSMUSG00000087057	Gm11730	predicted gene 11730	-1.545877845	0.004805524	0.025077687
ENSMUSG00000024899	Paps2	3'-phosphoadenosine 5'-phosphosulfate synthase 2	-0.370866361	0.004807598	0.025083854
ENSMUSG00000104094	RP24-308L17.2		-1.278771167	0.004808879	0.02508589
ENSMUSG00000042106	Fam212a	family with sequence similarity 212, member A	0.560118505	0.004814125	0.025108599
ENSMUSG00000020190	Mknk2	MAP kinase-interacting serine/threonine kinase 2	-0.669020447	0.00482633	0.025167587
ENSMUSG00000029072	Tas1r3	taste receptor, type 1, member 3	-0.601180285	0.004833116	0.025198304
ENSMUSG00000035505	Cox18	cytochrome c oxidase assembly protein 18	0.563102617	0.004835506	0.025206097
ENSMUSG00000095105	Edaradd	EDAR (ectodysplasin-A receptor)-associated death domain	1.421038268	0.004853505	0.025295232
ENSMUSG00000029999	Tgfa	transforming growth factor alpha	-0.761932963	0.004856329	0.025305259
ENSMUSG00000087236	Gm1305	predicted gene 1305	-2.243418604	0.004859101	0.025315018

ENSMUSG0000022210	Dhrs4	dehydrogenase/reductase (SDR family) member 4	0.541868035	0.004876014	0.025398427
ENSMUSG00000078719	Msmg	microseminoprotein, prostate associated	0.866972341	0.004891348	0.025473581
ENSMUSG00000039748	Exo1	exonuclease 1	1.719893292	0.004894433	0.025484933
ENSMUSG00000050732	Vamp8	vesicle-associated membrane protein 8	0.388836014	0.004896333	0.025490108
ENSMUSG00000040269	Mrps28	mitochondrial ribosomal protein S28	0.611177258	0.004902069	0.025515244
ENSMUSG00000041324	Inhba	inhibin beta-A	1.227543411	0.004913103	0.0255567949
ENSMUSG00000040151	Hs2st1	heparan sulfate 2-O-sulfotransferase 1	0.431124864	0.004914893	0.025572535
ENSMUSG00000053219	Raet1e	retinoic acid early transcript 1E	1.866770139	0.004915975	0.025573432
ENSMUSG00000007122	Casq1	calsequestrin 1	0.940878163	0.004925193	0.025608122
ENSMUSG00000028413	B4gal1	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1	0.393099927	0.004926313	0.025608122
ENSMUSG00000029802	Abcg2	ATP-binding cassette, sub-family G (WHITE), member 2	0.364777746	0.004926657	0.025608122
ENSMUSG00000041268	Dmxi2	Dmx-like 2	-0.427771415	0.004927195	0.025608122
ENSMUSG00000031596	Slc7a2	solute carrier family 7 (cationic amino acid transporter, y+ system), member 2	-0.803382855	0.004924264	0.025608122
ENSMUSG00000024498	Tcerg1	transcription elongation regulator 1 (CA150)	0.45335002	0.004928929	0.025612403
ENSMUSG00000086382	Chrna1os	cholinergic receptor, nicotinic, alpha polypeptide 1 (muscle), opposite strand	1.43557482	0.004938298	0.025656352
ENSMUSG00000021217	Tshz3	teashirt zinc finger family member 3	0.460523657	0.004941673	0.025669146
ENSMUSG00000012017	Scar2	scavenger receptor class F, member 2	-0.908148802	0.004945368	0.025683598
ENSMUSG00000014504	Srp19	signal recognition particle 19	0.445792252	0.004956455	0.025736422
ENSMUSG00000039515	Ppp2r4	protein phosphatase 2A activator, regulatory subunit B	0.409146368	0.004959728	0.025747307
ENSMUSG00000034028	Cd226	CD226 antigen	-1.020316038	0.004961296	0.025747307
ENSMUSG00000028488	Sh3gl2	SH3-domain GRB2-like 2	-2.298637915	0.004960747	0.025747307
ENSMUSG00000012609	Tll5	tubulin tyrosine ligase-like family, member 5	-0.385051796	0.004962644	0.02574955
ENSMUSG00000027357	Crls1	cardiolipin synthase 1	0.513574417	0.004989484	0.025884038
ENSMUSG00000030786	Itgam	integrin alpha M	0.695703989	0.004998676	0.025926945
ENSMUSG00000022635	Zcbr1	zinc finger CCHC-type and RNA binding motif 1	0.436233727	0.005025321	0.026060343
ENSMUSG00000081822	Gm15626	predicted gene 15626	-1.71598435	0.005031503	0.026087593
ENSMUSG00000021127	Zfp361l	zinc finger protein 36, C3H type-like 1	-0.382058351	0.005033307	0.026089452
ENSMUSG00000054942	Fam73a	family with sequence similarity 73, member A	-0.47499333	0.005033717	0.026089452
ENSMUSG00000085903	Gm15340	predicted gene 15340		0.005034833	0.02609043
ENSMUSG00000045725	Prr15	proline rich 15	0.698608399	0.005042131	0.026123439
ENSMUSG00000046675	Tmem251	transmembrane protein 251	0.494050907	0.005044903	0.02613299
ENSMUSG00000096210	H1f0	H1 histone family, member 0	0.418017794	0.005047723	0.026134
ENSMUSG00000039910	Cited2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2	-0.489465956	0.005047885	0.026134
ENSMUSG00000052605	Isoc2b	isochorismatase domain containing 2b	-1.121455964	0.005047879	0.026134
ENSMUSG00000024098	Twsg1	twisted gastrulation homolog 1 (Drosophila)	0.421137508	0.005069527	0.026231562
ENSMUSG00000090262	Mpv17	MpV17 mitochondrial inner membrane protein	-0.43397532	0.005067996	0.026231562
ENSMUSG00000035929	H2-Q4	histocompatibility 2, Q region locus 4	-0.544308223	0.005069453	0.026231562
ENSMUSG00000069302	Hist1h2ah	histone cluster 1, H2ah	2.993267352	0.005088201	0.026323344
ENSMUSG00000039623	Ap5z1	adaptor-related protein complex 5, zeta 1 subunit	-0.6831125	0.005091394	0.026335023
ENSMUSG00000024427	Spry4	sprouty homolog 4 (Drosophila)	0.695183268	0.005096963	0.026358983
ENSMUSG00000028266	Lmo4	LIM domain only 4	0.4218136	0.005113196	0.026438071
ENSMUSG00000063558	Aox1	aldehyde oxidase 1	-1.051213668	0.005116785	0.026451768
ENSMUSG00000038056	Kmt2c	lysine (K)-specific methyltransferase 2C	-0.397417235	0.00511823	0.026454374
ENSMUSG00000021764	Ndufs4	NADH dehydrogenase (ubiquinone) Fe-S protein 4	0.451136967	0.005138155	0.02654439
ENSMUSG00000030619	Eed	embryonic ectoderm development	0.447754949	0.00513931	0.02654439
ENSMUSG00000022587	Ly6e	lymphocyte antigen 6 complex, locus E	-0.356003552	0.00513942	0.02654439
ENSMUSG000000102625	RP24-105B23.2		-0.876791946	0.005137899	0.02654439
ENSMUSG00000031010	Usp9x	ubiquitin specific peptidase 9, X chromosome	0.39410363	0.005153259	0.026610985
ENSMUSG00000094628	Gm3252	predicted gene 3252	-0.845069672	0.005171454	0.026700041
ENSMUSG00000025995	Wdr75	WD repeat domain 75	0.470981137	0.005177748	0.026727118
ENSMUSG00000006019	Dhx34	DEAH (Asp-Glu-Ala-His) box polypeptide 34	-0.837938504	0.005178599	0.026727118
ENSMUSG00000027381	Bcl2l11	BCL2-like 11 (apoptosis facilitator)	-0.391352909	0.005181069	0.026734961
ENSMUSG00000028654	Mycl	v-myc myelocytomatosis viral oncogene homolog, lung carcinoma derived (avian)	0.999220333	0.005191873	0.026785798
ENSMUSG00000020608	Smc6	structural maintenance of chromosomes 6	0.433696422	0.005192924	0.026786309
ENSMUSG000000026271	Gpr35	G protein-coupled receptor 35	-0.848701775	0.005199084	0.026813168
ENSMUSG000000031701	Dnaja2	DnaJ (Hsp40) homolog, subfamily A, member 2	0.417832276	0.005201903	0.02682279
ENSMUSG00000022982	Sod1	superoxide dismutase 1, soluble	0.39715483	0.005204015	0.026828763
ENSMUSG00000033458	Fan1	FANCD2/FANCI-associated nuclease 1	-0.526366556	0.005229243	0.026953881
ENSMUSG00000030814	Bcl7c	B cell CLL/lymphoma 7C	0.511430097	0.005237171	0.026984862
ENSMUSG00000047153	Khryn	KH and NYN domain containing	-0.414316343	0.005236346	0.026984862
ENSMUSG00000026003	Acadl	acyl-Coenzyme A dehydrogenase, long-chain	0.37788573	0.005243655	0.027013324
ENSMUSG00000056144	Trim34a	tripartite motif-containing 34A	-0.458335208	0.005248719	0.027030795
ENSMUSG00000078866	Gm14420	predicted gene 14420	-0.530580058	0.005248969	0.027030795
ENSMUSG00000019055	Plod1	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1	0.403400304	0.005251058	0.027036604
ENSMUSG00000056494	Cngb3	cyclic nucleotide gated channel beta 3	-2.210796891	0.005258791	0.027071465
ENSMUSG00000033703	Fuk	fucokinase	-0.510752592	0.005260642	0.02707604
ENSMUSG00000020057	Dram1	DNA-damage regulated autophagy modulator 1	0.501755157	0.00527489	0.027144411
ENSMUSG00000025503	Taldo1	transaldolase 1	0.424230194	0.005276781	0.027149175
ENSMUSG00000028414	Fktn	fukutin	-0.401089634	0.005279802	0.027159751
ENSMUSG00000038143	Stox2	storkhead box 2	-0.369735527	0.005294259	0.027229136
ENSMUSG00000066058	Cldn19	claudin 19	-1.781420673	0.005303364	0.027270984
ENSMUSG00000070461	9230112E08Rik	RIKEN cDNA 9230112E08 gene	-0.486113542	0.005304425	0.027271454
ENSMUSG00000044042	Fmn1	formin 1	1.058468445	0.005310088	0.027295582

ENSMUSG00000020745	Pafah1b1	platelet-activating factor acetylhydrolase, isoform 1b, subunit 1	0.39369049	0.005313323	0.027307219
ENSMUSG00000026791	Slc2a8	solute carrier family 2, (facilitated glucose transporter), member 8	-0.839540244	0.005314319	0.027307351
ENSMUSG00000030726	Pold3	polymerase (DNA-directed), delta 3, accessory subunit	0.457974984	0.005318102	0.027321798
ENSMUSG00000018654	Ikzf1	IKAROS family zinc finger 1	-0.776759422	0.005324463	0.027349481
ENSMUSG000000064672	Gm22806	predicted gene, 22806	2.178020262	0.005327903	0.027362159
ENSMUSG000000037070	Rbmx1	RNA binding motif protein, X linked-like-1	0.645934647	0.005329469	0.027365204
ENSMUSG00000078640	Gm11627	predicted gene 11627	-2.010412891	0.005332777	0.027377193
ENSMUSG000000021572	Cep72	centrosomal protein 72	0.675922537	0.005345526	0.027437637
ENSMUSG00000013736	Trnt1	tRNA nucleotidyl transferase, CCA-adding, 1	0.441550873	0.005349059	0.027450764
ENSMUSG000000022706	Mrp140	mitochondrial ribosomal protein L40	0.476956092	0.005355564	0.027474509
ENSMUSG000000035769	Xylb	xylulokinase homolog (H. influenzae)	-1.121889321	0.005354898	0.027474509
ENSMUSG000000005882	Uqcc1	ubiquinol-cytochrome c reductase complex assembly factor 1	-0.420555346	0.005374737	0.027565251
ENSMUSG000000097194	9330175E14Rik	RIKEN cDNA 9330175E14 gene	-0.655242356	0.005375288	0.027565251
ENSMUSG000000037353	Letmd1	LETM1 domain containing 1	-0.432826311	0.005378254	0.027575436
ENSMUSG000000025228	Actr1a	ARP1 actin-related protein 1A, centractin alpha	0.377115017	0.005388055	0.02761562
ENSMUSG000000000594	Gm2a	GM2 ganglioside activator protein	-0.458330904	0.005387132	0.02761562
ENSMUSG000000049744	Arhgap15	Rho GTPase activating protein 15	-0.886830684	0.005403222	0.027688314
ENSMUSG000000036167	Pphn1	periphilin 1	0.442300374	0.005407469	0.027705032
ENSMUSG00000075029	4930558J22Rik	RIKEN cDNA 4930558J22 gene	-1.180603777	0.005408666	0.027706119
ENSMUSG000000026437	Cdk18	cyclin-dependent kinase 18	-0.970862285	0.005413983	0.027728304
ENSMUSG000000036513	Comm2	COMM domain containing 2	0.466495007	0.005422618	0.027767474
ENSMUSG000000048240	Gng7	guanine nucleotide binding protein (G protein), gamma 7	-2.05048206	0.005428412	0.027792086
ENSMUSG000000020265	Sumo3	SMT3 suppressor of mi1 two 3 homolog 3 (yeast)	0.389261296	0.005440445	0.027848625
ENSMUSG000000095026	Gm3336	predicted gene 3336	-0.7216139	0.005444953	0.027863928
ENSMUSG000000020469	Myi7	myosin, light polypeptide 7, regulatory	-3.621692919	0.005445416	0.027863928
ENSMUSG000000068245	Phf11d	PHD finger protein 11D	-0.375978736	0.005452671	0.027895982
ENSMUSG000000077391	Gm24336	predicted gene, 24336	0.531606475	0.005455749	0.027906651
ENSMUSG000000032330	Cox7a2	cytochrome c oxidase subunit VIIa 2	0.418660756	0.005466885	0.027958528
ENSMUSG000000021102	Glrx5	glutaredoxin 5 homolog (S. cerevisiae)	0.535591848	0.005487268	0.028057672
ENSMUSG000000031007	Atp6ap2	ATPase, H+ transporting, lysosomal accessory protein 2	0.400626261	0.00549033	0.028068229
ENSMUSG000000031907	Zfp90	zinc finger protein 90	0.471335932	0.005499259	0.028108767
ENSMUSG000000028114	Cnga3	cyclic nucleotide gated channel alpha 3	-3.761391216	0.00550081	0.028111588
ENSMUSG000000030972	Acsm5	acyl-CoA synthetase medium-chain family member 5	-2.607570842	0.005514591	0.028176895
ENSMUSG000000050345	4930486L24Rik	RIKEN cDNA 4930486L24 gene	0.517109165	0.005537125	0.028286898
ENSMUSG00000018740	Slc25a35	solute carrier family 25, member 35	-0.708258965	0.005540872	0.028300902
ENSMUSG000000087013	2610027K06Rik	RIKEN cDNA 2610027K06 gene	-1.229669351	0.005550969	0.028347323
ENSMUSG000000102426	RP23-330G24.3		-0.735361956	0.005560622	0.028391468
ENSMUSG000000098480	Mir6387	microRNA 6387	-1.409202811	0.00556351	0.028401058
ENSMUSG000000007570	Fance	Fanconi anemia, complementation group E	-0.657761914	0.005570196	0.028430028
ENSMUSG000000029512	Ulk1	unc-51 like kinase 1	-0.439442154	0.005574033	0.028444452
ENSMUSG000000030050	Gkn1	gastrokine 1		Inf	0.028459467
ENSMUSG000000037197	Rbm17	RNA binding motif protein 17	0.437040323	0.005578998	0.028459467
ENSMUSG000000083489	Gm11784	predicted gene 11784	-3.953196507	0.005583748	0.028478534
ENSMUSG000000048878	Hexim1	hexamethylene bis-acetamide inducible 1	-0.625626341	0.005587371	0.028491842
ENSMUSG0000000045103	Dmd	dystrophin, muscular dystrophy	-0.695518968	0.005591135	0.028505874
ENSMUSG000000101355	Hist1h3h	histone cluster 1, H3h	1.34153601	0.005599699	0.028539927
ENSMUSG000000046761	Fam83h	family with sequence similarity 83, member H	-1.301837439	0.005599843	0.028539927
ENSMUSG000000067653	Ankrd23	ankyrin repeat domain 23	-1.085106347	0.005614535	0.028609622
ENSMUSG00000015747	Vps45	vacuolar protein sorting 45 (yeast)	0.499530358	0.005632925	0.02869813
ENSMUSG000000078091	Gm10912	predicted gene 10912	-2.170331667	0.005639173	0.028724761
ENSMUSG000000041540	Sox5	SRY (sex determining region Y)-box 5	-0.589224065	0.005657682	0.028813823
ENSMUSG000000103515	AL591003.1		0.571842673	0.005660829	0.028824635
ENSMUSG000000003423	Pih1d1	PIH1 domain containing 1	0.473633499	0.005680032	0.028917182
ENSMUSG000000031586	Rbpms	RNA binding protein gene with multiple splicing	-0.41928861	0.005685532	0.028939943
ENSMUSG000000017667	Zfp334	zinc finger protein 334	-0.424247075	0.005689512	0.028954966
ENSMUSG000000031381	Piga	phosphatidylinositol glycan anchor biosynthesis, class A	0.535589886	0.005692474	0.028963317
ENSMUSG000000060733	Ipmk	inositol polyphosphate multikinase	0.391365653	0.005694242	0.028963317
ENSMUSG000000097855	A930007119Rik	RIKEN cDNA A930007119 gene	-0.910655402	0.005693275	0.028963317
ENSMUSG000000006678	Pola1	polymerase (DNA directed), alpha 1	0.825893784	0.005703784	0.029006421
ENSMUSG000000068263	Efcc1	EF hand and coiled-coil domain containing 1	-1.143146532	0.005704778	0.029006421
ENSMUSG000000050600	Zfp831	zinc finger protein 831	-1.181640006	0.005706966	0.029012303
ENSMUSG000000051166	Eml5	echinoderm microtubule associated protein like 5	-0.716228733	0.005711194	0.029032342
ENSMUSG000000029587	Zfp12	zinc finger protein 12	-0.400258436	0.005718429	0.029060075
ENSMUSG000000039156	Stim2	stromal interaction molecule 2	-0.399676171	0.005726166	0.029094135
ENSMUSG000000060862	Zbtb40	zinc finger and BTB domain containing 40	-0.388538636	0.005731593	0.029112813
ENSMUSG000000035459	Stab2	stabilin 2	-1.521897803	0.005731912	0.029112813
ENSMUSG000000054893	Zfp667	zinc finger protein 667	-0.592435125	0.005733335	0.029114786
ENSMUSG000000034342	Cbl	Casitas B-lineage lymphoma	0.402323689	0.005743966	0.029163507
ENSMUSG000000025939	Ube2w	ubiquitin-conjugating enzyme E2W (putative)	0.43485175	0.005757555	0.029227228
ENSMUSG000000058230	Arhgap35	Rho GTPase activating protein 35	0.396284067	0.005759364	0.029227893
ENSMUSG000000042063	Zfp386	zinc finger protein 386 (Krueppel-like)	-0.399307176	0.005759764	0.029227893
ENSMUSG000000098575	Gm27446	predicted gene, 27446	-1.04256149	0.005762977	0.029238922
ENSMUSG000000019767	Ccdc170	coiled-coil domain containing 170	-1.032085171	0.005771556	0.029277171

ENSMUSG0000002325	Irf9	interferon regulatory factor 9	-0.356324714	0.005784436	0.029337215
ENSMUSG00000046916	Myct1	myc target 1	-0.320002687	0.005799277	0.029407185
ENSMUSG00000034926	Dhcr24	24-dehydrocholesterol reductase	0.466182499	0.005806854	0.029440301
ENSMUSG00000036867	Smad6	SMAD family member 6	-0.880044063	0.005810256	0.029452241
ENSMUSG0000007541	Pus7	pseudouridylate synthase 7 homolog (S. cerevisiae)	0.467155352	0.005828874	0.029541291
ENSMUSG00000100257	C4bp-ps1	complement component 4 binding protein, pseudogene 1	-2.288194228	0.005831908	0.029551344
ENSMUSG00000022312	Eif3h	eukaryotic translation initiation factor 3, subunit H	0.394846302	0.005835315	0.029563282
ENSMUSG00000097331	F420014N23Rik	RIKEN cDNA F420014N23 gene	-1.098778888	0.005847415	0.02961925
ENSMUSG00000049950	Rpp38	ribonuclease P/MRP 38 subunit	0.692345742	0.00585051	0.029629593
ENSMUSG00000020964	Sel1l	sel-1 suppressor of lin-12-like (C. elegans)	0.395242028	0.005857018	0.029657215
ENSMUSG00000046470	Sox18	SRY (sex determining region Y)-box 18	-0.785307178	0.005896574	0.029852137
ENSMUSG00000103195	RP24-485J8.3		-1.251807989	0.005909965	0.029914548
ENSMUSG00000063108	Zfp26	zinc finger protein 26	0.424409348	0.005913078	0.029924921
ENSMUSG00000019864	Rtn4ip1	reticulon 4 interacting protein 1	-0.462975943	0.005916417	0.029936431
ENSMUSG00000102548	RP24-192L21.1		2.084387709	0.00591778	0.029937943
ENSMUSG00000031703	Iltg1	integrin alpha FG-GAP repeat containing 1	0.403110056	0.00592304	0.029959165
ENSMUSG00000030087	Klf15	Kruppel-like factor 15	-1.457397805	0.005925469	0.029966063
ENSMUSG00000055489	Ano5	anoctamin 5	-3.010099524	0.005929251	0.029979801
ENSMUSG00000031781	Ciapin1	cytokine induced apoptosis inhibitor 1	0.474110385	0.005948529	0.030071873
ENSMUSG00000035372	1810055G02Rik	RIKEN cDNA 1810055G02 gene	0.518975028	0.00595401	0.030094174
ENSMUSG00000022228	Zscan26	zinc finger and SCAN domain containing 26	-0.3805022	0.005961539	0.030126814
ENSMUSG00000033953	Ppp3r1	protein phosphatase 3, regulatory subunit B, alpha isoform (calcineurin B, type I)	0.427684374	0.005967369	0.030150859
ENSMUSG00000102599	RP23-256D19.3		1.193031905	0.005980398	0.030211265
ENSMUSG000000096197	4930555G01Rik	RIKEN cDNA 4930555G01 gene		"-Inf	0.03026223
ENSMUSG00000000568	Hnmpd	heterogeneous nuclear ribonucleoprotein D	0.423883583	0.005994359	0.030270922
ENSMUSG00000069793	Slnf9	schlafen 9	1.19133642	0.005997783	0.030282775
ENSMUSG00000014932	Yes1	Yamaguchi sarcoma viral (v-yes) oncogene homolog 1	0.443081364	0.006004908	0.030313311
ENSMUSG00000031403	Dkc1	dyskeratosis congenita 1, dyskerin	0.539654203	0.006006054	0.030313656
ENSMUSG00000063760	Rnf217	ring finger protein 217	0.414626686	0.006011485	0.030335626
ENSMUSG00000087589	D430040D24Rik	RIKEN cDNA D430040D24 gene	-0.514221558	0.006015058	0.030343593
ENSMUSG00000027313	Chac1	ChaC, cation transport regulator 1	-0.620985628	0.006015221	0.030343593
ENSMUSG000000303153	Slc2a3	solute carrier family 2 (facilitated glucose transporter), member 3	0.413537025	0.006023916	0.030382006
ENSMUSG00000042817	Flk3	FMS-like tyrosine kinase 3	2.434172684	0.00603665	0.030440774
ENSMUSG00000065663	Gm22579	predicted gene, 22579	0.980256736	0.006043358	0.030469136
ENSMUSG00000020272	Stk10	serine/threonine kinase 10	-0.339095459	0.006047037	0.030482044
ENSMUSG00000029600	Rita1	RBPJ interacting and tubulin associated 1	-0.645944569	0.006048085	0.030482044
ENSMUSG00000078816	Prkcg	protein kinase C, gamma	0.710548712	0.00606041	0.030538692
ENSMUSG00000103780	RP24-93F24.2		-0.959564841	0.006066958	0.030566211
ENSMUSG00000034459	Iltf1	interferon-induced protein with tetratricopeptide repeats 1	-0.414616165	0.006081237	0.030632665
ENSMUSG00000036898	Zfp157	zinc finger protein 157	-0.40530553	0.006086009	0.030651216
ENSMUSG00000004961	Syt5	synaptotagmin V	0.995436568	0.006090031	0.030665982
ENSMUSG00000031965	Tbx20	T-box 20	-0.642419225	0.006098865	0.030704968
ENSMUSG00000009093	Gstt4	glutathione S-transferase, theta 4	-2.478841983	0.006106733	0.030739082
ENSMUSG00000032243	Iltga11	integrin alpha 11	-1.296711436	0.006108021	0.030740063
ENSMUSG00000022091	Sorbs3	sorbin and SH3 domain containing 3	-0.701380687	0.006114417	0.030766749
ENSMUSG00000020439	Smtn	smoothelin	0.528852437	0.006117874	0.030773135
ENSMUSG00000022389	Tef	thyrotroph embryonic factor	-1.077779082	0.006117832	0.030773135
ENSMUSG00000020289	Nprl3	nitrogen permease regulator-like 3	-0.467693999	0.006120933	0.03078302
ENSMUSG00000027071	P2rx3	purinergic receptor P2X, ligand-gated ion channel, 3	1.197690645	0.006134983	0.030848162
ENSMUSG00000036398	Ppp1r11	protein phosphatase 1, regulatory (inhibitor) subunit 11	0.436194056	0.006145341	0.030894723
ENSMUSG00000046111	Cep295	centrosomal protein 295	0.455478517	0.006148685	0.030906013
ENSMUSG00000036737	Oxsr1	oxidative-stress responsive 1	0.395947133	0.006157844	0.030940995
ENSMUSG00000033344	Btb2	BTB (POZ) domain containing 2	-0.850427812	0.006157757	0.030940995
ENSMUSG00000097354	2310001H17Rik	RIKEN cDNA 2310001H17 gene	-0.53250945	0.006163259	0.030962673
ENSMUSG00000021772	Nkiras1	NFKB inhibitor interacting Ras-like protein 1	-0.475376295	0.006170772	0.030994882
ENSMUSG00000053046	Brsk2	BR serine/threonine kinase 2	-2.25902985	0.006174449	0.031007814
ENSMUSG00000060301	2610008E11Rik	RIKEN cDNA 2610008E11 gene	0.391233578	0.006178365	0.031021943
ENSMUSG00000000253	Gmpr	guanosine monophosphate reductase	-0.515883808	0.006194883	0.03109933
ENSMUSG00000021111	Papola	poly (A) polymerase alpha	0.425954551	0.006211923	0.031179308
ENSMUSG00000035376	Ptplb	protein tyrosine phosphatase-like (proline instead of catalytic arginine), member b	0.50464048	0.006224824	0.031238489
ENSMUSG00000062526	Mppe1	metallophosphoesterase 1	-0.411063609	0.006228662	0.031252178
ENSMUSG00000034674	Tdg	thymine DNA glycosylase	0.559959951	0.006245382	0.031329131
ENSMUSG00000100017	2410022M11Rik	RIKEN cDNA 2410022M11 gene	-0.61473138	0.006246227	0.031329131
ENSMUSG00000074403	Hist2h3b	histone cluster 2, H3b	1.204116648	0.006248785	0.031336374
ENSMUSG00000087578	Ccdc142os	coiled-coil domain containing 142, opposite strand	-1.14891747	0.006250847	0.031341131
ENSMUSG00000093985	Gm10406	predicted gene 10406	1.343299534	0.006256261	0.031362684
ENSMUSG00000038014	Fam120a	family with sequence similarity 120, member A	0.400089023	0.006258518	0.031366919
ENSMUSG00000020372	Gnb2l1	guanine nucleotide binding protein (G protein), beta polypeptide 2 like 1	0.361255697	0.006259335	0.031366919
ENSMUSG00000102953	RP23-377G8.4		-0.843772445	0.006278411	0.031456906
ENSMUSG00000018604	Tbx3	T-box 3	-0.399787087	0.006281259	0.031465571
ENSMUSG00000011958	Bnip2	BCL2/adenovirus E1B interacting protein 2	0.39475671	0.006288399	0.03149573
ENSMUSG00000033557	Fam20b	family with sequence similarity 20, member B	0.407463757	0.006291932	0.031507817
ENSMUSG00000030649	Anapc15	anaphase promoting complex C subunit 15	0.508304565	0.006308908	0.031587206

ENSMUSG00000039629	Strip2	striatin interacting protein 2	-1.10320993	0.006316229	0.031618231
ENSMUSG00000028871	Rspo1	R-spondin homolog (Xenopus laevis)	-1.455146437	0.006323006	0.031646528
ENSMUSG00000024456	Diap1	diaphanous homolog 1 (Drosophila)	0.383956864	0.006326724	0.031659504
ENSMUSG00000027242	Wdr76	WD repeat domain 76	0.619830274	0.006344779	0.031744208
ENSMUSG00000023279	Bmp15	bone morphogenetic protein 15	-1.675123604	0.006349765	0.031763504
ENSMUSG00000051853	Arf3	ADP-ribosylation factor 3	0.400473352	0.006370228	0.031860198
ENSMUSG00000086728	Man2c1os	mannosidase, alpha, class 2C, member 1, opposite strand	-1.000426635	0.006375922	0.031877342
ENSMUSG00000104348	RP23-59N15.4		-1.446465162	0.006374823	0.031877342
ENSMUSG00000060012	Kif13b	kinesin family member 13B	-0.399615018	0.006390342	0.031943764
ENSMUSG00000039377	Hlx	H2.0-like homeobox	0.408836879	0.006397061	0.031965989
ENSMUSG00000086370	Ftx	Ftx transcript, Xist regulator (non-protein coding)	-0.476575938	0.006395961	0.031965989
ENSMUSG00000036030	Prtg	protogenin homolog (Gallus gallus)	-0.9326663	0.006400822	0.031979101
ENSMUSG00000016933	Plcg1	phospholipase C, gamma 1	-0.428495951	0.006410846	0.032023494
ENSMUSG00000019558	Slc6a8	solute carrier family 6 (neurotransmitter transporter, creatine), member 8	-0.438888794	0.006413106	0.032026496
ENSMUSG00000039103	Nexn	nexilin	-1.29472961	0.006413723	0.032026496
ENSMUSG00000014956	Ppp1cb	protein phosphatase 1, catalytic subunit, beta isoform	0.403297811	0.006415537	0.032029866
ENSMUSG00000037905	Bri3bp	Bri3 binding protein	-0.9795698	0.00642455	0.032063486
ENSMUSG00000087424	5730405O15Rik	RIKEN cDNA 5730405O15 gene	-1.226827057	0.006424091	0.032063486
ENSMUSG00000085336	Gm11732	predicted gene 11732	-2.528517193	0.006452965	0.032199588
ENSMUSG00000034218	Atm	ataxia telangiectasia mutated	-0.364594331	0.006488954	0.032373424
ENSMUSG00000102788	RP24-222G3.2		-2.57883373	0.006495285	0.032399264
ENSMUSG00000052376	4921508M14Rik	RIKEN cDNA 4921508M14 gene	-3.496685467	0.00652053	0.032519426
ENSMUSG00000031652	N4bp1	NEDD4 binding protein 1	0.397286695	0.006527302	0.032547427
ENSMUSG00000006587	Snai3	snail family zinc finger 3	-2.002260122	0.006541547	0.032612677
ENSMUSG00000028330	Ncbp1	nuclear cap binding protein subunit 1	0.442647563	0.006544003	0.03261914
ENSMUSG00000020042	Btb11	BTB (POZ) domain containing 11	-0.842678779	0.006554107	0.032663717
ENSMUSG00000027466	Rbck1	RanBP-type and C3HC4-type zinc finger containing 1	-0.531174462	0.006558229	0.032672688
ENSMUSG00000022623	Shank3	SH3/ankyrin domain gene 3	-0.544025612	0.006557656	0.032672688
ENSMUSG00000063060	Sox7	SRY (sex determining region Y)-box 7	0.374740564	0.006560167	0.032676556
ENSMUSG00000051839	Gypa	glycophorin A	-1.830001944	0.006562863	0.032684197
ENSMUSG00000031079	Zfp300	zinc finger protein 300	-0.516941415	0.006566107	0.032691234
ENSMUSG00000037683	Armc3	armadillo repeat containing 3	-2.409792564	0.0065666	0.032691234
ENSMUSG00000016344	Pdp1f	pancreatic progenitor cell differentiation and proliferation factor homolog (zebrafish)RIKEN cDNA 2700038C09 gene	-0.657338235	0.006576456	0.032734507
ENSMUSG00000028811	Yars	tyrosyl-tRNA synthetase	0.449023835	0.006558229	0.032744438
ENSMUSG00000041801	Phlda3	pleckstrin homology-like domain, family A, member 3	0.501400848	0.006583239	0.032756678
ENSMUSG00000081583	Gm14769	predicted gene 14769	-1.739693178	0.006604672	0.032857515
ENSMUSG00000043518	Rai2	retinoic acid induced 2	-0.921822744	0.006606661	0.032861346
ENSMUSG00000086389	Gm15998	predicted gene 15998	-0.903578767	0.006612917	0.032886898
ENSMUSG00000049047	Armcx3	armadillo repeat containing, X-linked 3	0.535553039	0.006621319	0.03291123
ENSMUSG00000021243	Fcf1	FCF1 small subunit (SSU) processome component homolog (S. cerevisiae)	0.516279237	0.006621042	0.03291123
ENSMUSG00000031880	Rrad	Ras-related associated with diabetes	-0.844518586	0.006620141	0.03291123
ENSMUSG00000047363	Cstad	CSA-conditional, T cell activation-dependent protein	-1.344899863	0.006623238	0.032914952
ENSMUSG00000031149	Praf2	PRA1 domain family 2	0.560972721	0.00663396	0.032962416
ENSMUSG00000072946	Ptgr2	prostaglandin reductase 2	-0.414268191	0.006643318	0.033003082
ENSMUSG00000033763	Miss1l	metastasis suppressor 1-like	0.433586707	0.006644672	0.033003984
ENSMUSG00000019837	Gtf3c6	general transcription factor IIIC, polypeptide 6, alpha	0.489090305	0.006654609	0.033037605
ENSMUSG00000030768	Disp1	dispatched homolog 1 (Drosophila)	-0.433627562	0.006654964	0.033037605
ENSMUSG00000067424	Zfp563	zinc finger protein 563	-0.476160653	0.006654525	0.033037605
ENSMUSG00000001029	Icam2	intercellular adhesion molecule 2	0.384230819	0.006661068	0.033062074
ENSMUSG00000044937	BC030307	cDNA sequence BC030307	-0.72287024	0.006665197	0.033076733
ENSMUSG00000023021	Cers5	ceramide synthase 5	0.403114496	0.006668187	0.033085734
ENSMUSG00000052794	1700030K09Rik	RIKEN cDNA 1700030K09 gene	-0.501060485	0.006680615	0.03314155
ENSMUSG00000036553	Sh3tc1	SH3 domain and tetratricopeptide repeats 1	-0.559106388	0.006681817	0.033141673
ENSMUSG00000023026	Dip2b	DIP2 disco-interacting protein 2 homolog B (Drosophila)	-0.402141121	0.006696122	0.033206768
ENSMUSG00000024287	Thoc1	THO complex 1	0.423783717	0.006700859	0.033224404
ENSMUSG00000012483	Rpa3	replication protein A3	0.552892543	0.006711943	0.033273499
ENSMUSG00000041263	Rusc1	RUN and SH3 domain containing 1	-0.634078433	0.006718482	0.033300046
ENSMUSG00000032902	Slc16a1	solute carrier family 16 (monocarboxylic acid transporters), member 1	-0.477900947	0.006721678	0.033310019
ENSMUSG00000067825	Pex26	peroxisomal biogenesis factor 26	-0.448771107	0.00672403	0.033315802
ENSMUSG00000057173	Rfx8	regulatory factor X 8	1.96970148	0.006732173	0.033350277
ENSMUSG00000063047	Zfp780b	zinc finger protein 780B	-0.501330454	0.006743983	0.033402898
ENSMUSG00000063632	Sox11	SRY (sex determining region Y)-box 11	1.131677035	0.006749453	0.033418228
ENSMUSG00000022032	Scara5	scavenger receptor class A, member 5 (putative)	-0.849225311	0.006749079	0.033418228
ENSMUSG00000068394	Cep152	centrosomal protein 152	0.45874306	0.006755537	0.033436581
ENSMUSG00000066643	Wdr35	WD repeat domain 35	-0.619976621	0.006754367	0.033436581
ENSMUSG00000033488	BC026585	cDNA sequence BC026585	-0.639911901	0.006764876	0.033476912
ENSMUSG00000021607	Mrp136	mitochondrial ribosomal protein L36	0.522379527	0.006766911	0.033481095
ENSMUSG00000027879	Sec22b	SEC22 vesicle trafficking protein homolog B (S. cerevisiae)	0.420605047	0.006779051	0.033535264
ENSMUSG00000035885	Cox8a	cytochrome c oxidase subunit VIIIa	0.404795328	0.006802217	0.033643462
ENSMUSG00000019737	Syne4	spectrin repeat containing, nuclear envelope family member 4	-1.69179217	0.006803315	0.033643462
ENSMUSG00000085632	Gm12381	predicted gene 12381	-3.637828579	0.006813162	0.033686239
ENSMUSG00000019590	Cyb561	cytochrome b-561	0.508618249	0.006827116	0.033749296
ENSMUSG00000004661	Arid3b	AT rich interactive domain 3B (BRIGHT-like)	-0.599025537	0.00683979	0.033806012

ENSMUSG00000058470	Gm8369	predicted gene 8369		-1.178672238	0.006846327	0.033832375
ENSMUSG00000035969	Rusc2	RUN and SH3 domain containing 2		-0.884573831	0.006858389	0.033886033
ENSMUSG00000039236	Isg20	interferon-stimulated protein		-0.507298965	0.006864695	0.033911234
ENSMUSG00000042763	Maneal	mannosidase, endo-alpha-like		-1.268896505	0.006879388	0.033977847
ENSMUSG00000026109	Tmeff2	transmembrane protein with EGF-like and two follistatin-like domains 2		-1.040852539	0.006893243	0.034040301
ENSMUSG00000087484	2900089D17Rik	RIKEN cDNA 2900089D17 gene		-0.887616578	0.006905313	0.034093925
ENSMUSG00000039063	Echdc3	enoyl Coenzyme A hydratase domain containing 3		-1.120274376	0.00691274	0.034119156
ENSMUSG00000055692	Tmem191c	transmembrane protein 191C		-1.150390767	0.006912849	0.034119156
ENSMUSG00000001119	Col6a1	collagen, type VI, alpha 1		0.438738225	0.006926916	0.034182586
ENSMUSG00000029198	Grpel1	GrpE-like 1, mitochondrial		0.403056519	0.006928928	0.034183654
ENSMUSG00000025316	Banp	BTG3 associated nuclear protein		-0.393052304	0.006929562	0.034183654
ENSMUSG00000103403	RP23-280F6.6			-1.075894626	0.006934648	0.034202745
ENSMUSG00000069041	Slc25a31	solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 31		1.55711105	0.006944733	0.03424048
ENSMUSG00000032252	Glce	glucuronyl C5-epimerase		-0.382986436	0.00694401	0.03424048
ENSMUSG00000000088	Cox5a	cytochrome c oxidase subunit Va		0.442289506	0.006951909	0.034269856
ENSMUSG00000063172	Hspb11	heat shock protein family B (small), member 11		0.721114845	0.006955107	0.034273607
ENSMUSG00000103216	RP24-490B17.5			-1.626218381	0.006954204	0.034273607
ENSMUSG00000104342	RP23-7E4.2			2.186925525	0.006957712	0.034280439
ENSMUSG00000045730	Adrb2	adrenergic receptor, beta 2		-0.479746924	0.006961194	0.034288063
ENSMUSG00000092470	Gm20518	predicted gene 20518		-0.873297991	0.006961697	0.034288063
ENSMUSG00000043987	Cep164	centrosomal protein 164		-0.44468842	0.006983989	0.034391838
ENSMUSG00000026304	Rab17	RAB17, member RAS oncogene family		-5.718377433	0.0069861	0.034396211
ENSMUSG00000104467	RP23-79K5.4			0.572694893	0.006995776	0.034437826
ENSMUSG00000018040	Rrp7a	ribosomal RNA processing 7 homolog A (S. cerevisiae)		0.4159695	0.007014008	0.034521533
ENSMUSG00000028999	Nup35	nucleoporin 35		0.613756311	0.007033027	0.034609087
ENSMUSG00000027398	Il1b	interleukin 1 beta		0.658392093	0.007045391	0.034663868
ENSMUSG00000021149	Gtpbp4	GTP binding protein 4		0.424296165	0.007060489	0.034732074
ENSMUSG00000076934	Iglv1	immunoglobulin lambda variable 1		-1.960167253	0.007066607	0.034756094
ENSMUSG00000068854	Hist2h2be	histone cluster 2, H2be		-0.428293803	0.007074821	0.034790409
ENSMUSG00000103081	Pcdhgb8	protocadherin gamma subfamily B, 8		-0.641141479	0.007112221	0.034968215
ENSMUSG00000023349	Clec4n	C-type lectin domain family 4, member n		1.318440231	0.007119927	0.034999982
ENSMUSG00000023169	Slc38a1	solute carrier family 38, member 1		0.601665519	0.007124413	0.035015915
ENSMUSG00000021957	Tkt	transketolase		0.405305077	0.007127402	0.035024489
ENSMUSG00000022790	Igsf11	immunoglobulin superfamily, member 11		-2.265300362	0.007133115	0.035046441
ENSMUSG00000028953	Abcf2	ATP-binding cassette, sub-family F (GCN20), member 2		0.416597924	0.007136956	0.035046952
ENSMUSG00000046806	3110062M04Rik	RIKEN cDNA 3110062M04 gene		-0.476933916	0.007136733	0.035046952
ENSMUSG00000070304	Scn2b	sodium channel, voltage-gated, type II, beta		-0.67570682	0.0071366	0.035046952
ENSMUSG00000026107	Nabp1	nucleic acid binding protein 1		-0.499217965	0.00714436	0.035077185
ENSMUSG00000061959	Ces1e	carboxylesterase 1E		-6.093104639	0.007153667	0.035116752
ENSMUSG00000005682	Pan2	PAN2 polyA specific ribonuclease subunit homolog (S. cerevisiae)		-0.41767941	0.007159601	0.035139752
ENSMUSG00000043090	Zfp866	zinc finger protein 866		-0.415014568	0.007169919	0.035184254
ENSMUSG00000054967	Zfp647	zinc finger protein 647		-0.787522726	0.007202414	0.035337553
ENSMUSG00000015342	Xk	Kell blood group precursor (McLeod phenotype) homolog		-1.13211162	0.007209324	0.035365287
ENSMUSG00000071533	Pcnp	PEST proteolytic signal containing nuclear protein		0.432231502	0.007211411	0.035369356
ENSMUSG00000054843	Atrn1	attractin like 1		0.389134778	0.007218691	0.035398889
ENSMUSG00000028575	Nme7	NME/NM23 family member 7		0.474721694	0.0072224	0.035410904
ENSMUSG00000073792	Alg6	asparagine-linked glycosylation 6 (alpha-1,3-glucosyltransferase)		-0.340044691	0.007229648	0.035440267
ENSMUSG00000015668	Lpl	lipoprotein lipase		0.621242848	0.007231505	0.035443191
ENSMUSG00000091007	D630036H23Rik	RIKEN cDNA D630036H23 gene		-3.039530157	0.007274467	0.035647549
ENSMUSG00000076894	Traj35	T cell receptor alpha joining 35		"-Inf	0.007287876	0.035707037
ENSMUSG00000056537	Rlim	ring finger protein, LIM domain interacting		0.380706712	0.007307257	0.035795764
ENSMUSG00000089854	Gm16133	predicted gene 16133		2.746977925	0.007310743	0.035803289
ENSMUSG00000024352	Spata24	spermatogenesis associated 24		0.905646133	0.007311339	0.035803289
ENSMUSG00000044934	Zfp367	zinc finger protein 367		0.869726394	0.007338794	0.035931483
ENSMUSG00000032313	Af118078	expressed sequence Af118078		-2.410358247	0.007340765	0.035934878
ENSMUSG00000024766	Lipo1	lipase, member O1		0.439465686	0.007343317	0.035941118
ENSMUSG00000026778	Prkcg	protein kinase C, theta		0.497851347	0.00735112	0.03597305
ENSMUSG00000026837	Col5a1	collagen, type V, alpha 1		0.627242344	0.007365913	0.036039172
ENSMUSG00000032560	Dnajc13	DnaJ (Hsp40) homolog, subfamily C, member 13		0.410643399	0.007371272	0.036059121
ENSMUSG00000020782	LigI2	lethal giant larvae homolog 2 (Drosophila)		-0.821032027	0.007377704	0.036084311
ENSMUSG00000049960	Mirps16	mitochondrial ribosomal protein S16		0.476158956	0.007379453	0.036086588
ENSMUSG00000020019	Ntn4	netrin 4		-0.461430716	0.007380925	0.036087515
ENSMUSG00000100775	Gm29107	predicted gene 29107		-1.50230755	0.007388193	0.036116773
ENSMUSG00000024420	Zfp521	zinc finger protein 521		0.380267672	0.007397738	0.036157149
ENSMUSG00000094910	D430019H16Rik	RIKEN cDNA D430019H16 gene		-2.712337451	0.007407995	0.036200995
ENSMUSG00000046719	Nxph3	neurexophilin 3		1.952035782	0.007420167	0.036254176
ENSMUSG00000032410	Xrn1	5'-3' exonuclease 1		-0.371936281	0.007426243	0.036277565
ENSMUSG00000022231	Sema5a	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A		-0.598153566	0.007433884	0.036308584
ENSMUSG00000036019	Tmtc2	transmembrane and tetra-ricopeptide repeat containing 2		-0.371608755	0.007435601	0.03631067
ENSMUSG00000020740	Gga3	golgi associated, gamma adaptin ear containing, ARF binding protein 3		-0.383325535	0.007446104	0.036355648
ENSMUSG00000022489	Pde1b	phosphodiesterase 1B, Ca2+-calmodulin dependent		0.428089997	0.007458489	0.036393959
ENSMUSG00000050088	1600012H06Rik	RIKEN cDNA 1600012H06 gene		0.422472896	0.007460419	0.036393959
ENSMUSG00000035325	Sec31a	Sec31 homolog A (S. cerevisiae)		0.390506242	0.007459326	0.036393959

ENSMUSG00000029775	Klhdc10	kelch domain containing 10	0.38580157	0.007458927	0.036393959
ENSMUSG00000049115	Agtr1a	angiotensin II receptor, type 1a	-0.868759636	0.007456781	0.036393959
ENSMUSG00000061028	Clasrp	CLK4-associating serine/arginine rich protein	-0.484337623	0.007468159	0.036419088
ENSMUSG00000102501	RP24-339K18.3		-6.013668204	0.00746789	0.036419088
ENSMUSG00000021494	Ddx41	DEAD (Asp-Glu-Ala-Asp) box polypeptide 41	0.401489629	0.007471353	0.036428349
ENSMUSG00000021018	Polr2h	polymerase (RNA) II (DNA directed) polypeptide H	0.463337741	0.007476605	0.036447637
ENSMUSG00000033684	Qsox1	quiescin Q6 sulfhydryl oxidase 1	1.117106259	0.007484913	0.0364481817
ENSMUSG00000020431	Adcy1	adenylate cyclase 1	-2.044303912	0.007488501	0.036492985
ENSMUSG00000054999	Naalad1	N-acetylated alpha-linked acidic dipeptidase-like 1	2.901987351	0.00750688	0.036576215
ENSMUSG00000079364	Gm3558	predicted gene 3558	1.000548994	0.007513119	0.036600275
ENSMUSG00000052155	Acvr2a	activin receptor IIA	-0.381300474	0.007546501	0.036750165
ENSMUSG00000036578	Fxyd7	FXID domain-containing ion transport regulator 7	-1.551506833	0.007545492	0.036750165
ENSMUSG00000073802	Cdkn2b	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)	0.976368071	0.007558017	0.036796004
ENSMUSG00000002496	Tsc2	tuberous sclerosis 2	-0.39523951	0.007558529	0.036796004
ENSMUSG00000074649	BC029722	cDNA sequence BC029722	-0.489812083	0.0075697	0.036844008
ENSMUSG00000000282	Mnt	max binding protein	-0.618946218	0.00757644	0.036870436
ENSMUSG00000009995	Taz	tafazzin	-0.400664683	0.007585258	0.036906963
ENSMUSG00000022108	Itm2b	integral membrane protein 2B	-0.393387865	0.007587836	0.036913125
ENSMUSG00000018322	Tom34	translocase of outer mitochondrial membrane 34	-0.408783169	0.00759897	0.036954506
ENSMUSG00000088456	Gm26372	predicted gene, 26372	-2.979950211	0.007598642	0.036954506
ENSMUSG00000059208	Hnrnpm	heterogeneous nuclear ribonucleoprotein M	0.408482592	0.007609798	0.037000769
ENSMUSG00000038756	Till6	tubulin tyrosine ligase-like family, member 6	-3.787451364	0.007613643	0.037013065
ENSMUSG00000074166	AW146154	expressed sequence AW146154	-0.492866135	0.007620451	0.037039762
ENSMUSG00000027011	Ube2e3	ubiquitin-conjugating enzyme E2E 3	0.397476442	0.007628308	0.037071155
ENSMUSG00000049404	Rarres1	retinoic acid receptor responder (tazarotene induced) 1	-0.763929571	0.007655607	0.037197789
ENSMUSG00000030872	Gga2	golgi associated, gamma adaptin ear containing, ARF binding protein 2	-0.40865488	0.007667543	0.037242918
ENSMUSG00000035473	Galm	galactose mutarotase	-0.553986476	0.007666778	0.037242918
ENSMUSG00000064346	mt-Tw	mitochondrially encoded tRNA tryptophan	-0.819460679	0.00767284	0.037262216
ENSMUSG00000009762	4732463B04Rik	RIKEN cDNA 4732463B04 gene	-6.209089491	0.00768557	0.037317595
ENSMUSG00000019297	Nop9	NOP9 nucleolar protein	0.444681947	0.007692437	0.037344494
ENSMUSG00000036022	Fam122b	family with sequence similarity 122, member B	0.526611637	0.007733503	0.037537377
ENSMUSG00000049349	Gm5105	predicted gene 5105	-2.333458503	0.00775368	0.037628822
ENSMUSG00000025701	Alox5	arachidonate 5-lipoxygenase	-1.013338672	0.007759131	0.037648782
ENSMUSG00000020705	Ddx42	DEAD (Asp-Glu-Ala-Asp) box polypeptide 42	0.38258727	0.007788993	0.037787162
ENSMUSG00000019303	Psmc3ip	proteasome (prosome, macropain) 26S subunit, ATPase 3, interacting protein	0.781014461	0.007804973	0.037858158
ENSMUSG00000021814	Anxa7	annexin A7	0.359922075	0.007811486	0.037883218
ENSMUSG00000020974	Pole2	polymerase (DNA directed), epsilon 2 (p59 subunit)	0.864557804	0.007821047	0.037923045
ENSMUSG00000035069	Oma1	OMA1 homolog, zinc metalloproteinase (S. cerevisiae)	-0.379826431	0.007842221	0.038019164
ENSMUSG00000028776	Tinag1	tubulointerstitial nephritis antigen-like 1	0.859550305	0.007848508	0.038043088
ENSMUSG00000070705	Eid2b	EP300 interacting inhibitor of differentiation 2B	-0.528011658	0.007850026	0.038043888
ENSMUSG00000029202	Pds5a	PDS5, regulator of cohesion maintenance, homolog A (S. cerevisiae)	0.43618967	0.007853648	0.038054886
ENSMUSG00000026925	Inpp5e	inositol polyphosphate-5-phosphatase E	-0.406954358	0.007857957	0.038069209
ENSMUSG000000104140	RP24-244I20.2		-0.66378632	0.007866901	0.03810598
ENSMUSG00000004846	Plod3	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3	0.380871169	0.007885027	0.038187204
ENSMUSG00000035142	Nubpl	nucleotide binding protein-like	-0.541423584	0.007897651	0.038241756
ENSMUSG00000027281	Slx4ip	SLX4 interacting protein	0.629796012	0.007908587	0.038288123
ENSMUSG00000018846	Pank3	pantothenate kinase 3	0.398257418	0.007920215	0.038331226
ENSMUSG00000040033	Stat2	signal transducer and activator of transcription 2	-0.357458733	0.007920009	0.038331226
ENSMUSG000000021072	Trmx1	thioredoxin-related transmembrane protein 1	0.418743394	0.007924003	0.038342963
ENSMUSG00000025473	Adam8	a disintegrin and metalloproteinase domain 8	0.637311677	0.007952356	0.03847354
ENSMUSG00000020599	Rgs9	regulator of G-protein signaling 9	1.657087764	0.007954506	0.038477322
ENSMUSG00000025486	Sirt3	sirtuin 3	-0.587816884	0.007973665	0.038563369
ENSMUSG00000087042	Gm11611	predicted gene 11611	-5.609399902	0.007982558	0.038599742
ENSMUSG00000063146	Clip2	CAP-GLY domain containing linker protein 2	0.439194471	0.007993005	0.038643619
ENSMUSG00000029833	Trim24	tripartite motif-containing 24	0.338346019	0.007995801	0.038650493
ENSMUSG00000053399	Adamts18	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 18	-2.164896519	0.007999043	0.038659521
ENSMUSG00000041445	Mmrn2	multimerin 2	-0.379383802	0.00800229	0.038668573
ENSMUSG00000024180	Tmem8	transmembrane protein 8 (five membrane-spanning domains)	-1.317759312	0.008004397	0.038672112
ENSMUSG00000045427	HnrnpH2	heterogeneous nuclear ribonucleoprotein H2	0.418831408	0.008008052	0.038683124
ENSMUSG00000046027	Stard5	SIAR-related lipid transfer (START) domain containing 5	0.448658371	0.008015735	0.038713591
ENSMUSG00000024778	Fas	Fas (TNF receptor superfamily member 6)	-0.796545457	0.008043845	0.038842686
ENSMUSG00000026655	Fam107b	family with sequence similarity 107, member B	0.614229011	0.008074632	0.038984663
ENSMUSG00000069539	Scyl2	SCY1-like 2 (S. cerevisiae)	0.394730799	0.008088611	0.039045453
ENSMUSG00000061397	Krt79	keratin 79	2.620898908	0.008110546	0.039137908
ENSMUSG00000078868	Gm14412	predicted gene 14412	-1.770448779	0.008110113	0.039137908
ENSMUSG00000086341	Gm15932	predicted gene 15932	-3.70541325	0.008115435	0.039154781
ENSMUSG00000074676	Foxs1	forkhead box S1	0.549579347	0.008126768	0.039202736
ENSMUSG00000052488	Cherp	calcium homeostasis endoplasmic reticulum protein	-0.397583472	0.008133689	0.039229399
ENSMUSG00000085816	Gm13052	predicted gene 13052	-5.599331788	0.008141135	0.039258577
ENSMUSG00000070999	Ccin	calicin	2.650809074	0.008146322	0.039276859
ENSMUSG00000017740	Slc12a5	solute carrier family 12, member 5	-0.546067031	0.008149407	0.039285001
ENSMUSG00000026532	Spta1	spectrin alpha, erythrocytic 1	-1.569509524	0.008154048	0.03930064
ENSMUSG00000028344	Invs	inversin	0.447800439	0.008161998	0.039332216

ENSMUSG00000020840	Blmh	bleomycin hydrolase	0.413246423	0.008198801	0.039502803
ENSMUSG00000073295	Nudt11	nudix (nucleoside diphosphate linked moiety X)-type motif 11	-0.880845597	0.008243294	0.039710374
ENSMUSG00000001240	Ramp2	receptor (calcitonin) activity modifying protein 2	-0.583449756	0.00825258	0.039748304
ENSMUSG00000014776	Nol3	nucleolar protein 3 (apoptosis repressor with CARD domain)	-0.881404115	0.008255881	0.039757394
ENSMUSG000000091144	Phf11c	PHD finger protein 11C	-0.538041622	0.008280014	0.039866785
ENSMUSG00000024533	Spire1	spire homolog 1 (Drosophila)	0.459890622	0.00829891	0.039950928
ENSMUSG00000024410	3110002H16Rik	RIKEN cDNA 3110002H16 gene	0.392761774	0.008305871	0.0399776
ENSMUSG000000103130	RP23-41F9.2		-2.015199582	0.008310652	0.039993769
ENSMUSG00000026141	Col19a1	collagen, type XIX, alpha 1	-1.308730647	0.00833096	0.040084643
ENSMUSG000000103839	RP24-191N24.2		-0.997931526	0.008338989	0.04011641
ENSMUSG00000027315	Spin1	serine protease inhibitor, Kunitz type 1	3.539017103	0.008340472	0.040116685
ENSMUSG00000041632	Mrps27	mitochondrial ribosomal protein S27	0.47547565	0.008372553	0.040264106
ENSMUSG00000052369	Tmem106c	transmembrane protein 106C	0.580632983	0.008376991	0.040271293
ENSMUSG00000036977	Anapc10	anaphase promoting complex subunit 10	0.475899097	0.008375489	0.040271293
ENSMUSG00000024905	Mt15	metallothionein-like 5, testis-specific (tesmin)	-1.787625911	0.008384068	0.04029882
ENSMUSG00000069237	C78339	expressed sequence C78339	0.396734391	0.008387409	0.040307993
ENSMUSG00000004591	Pkn2	protein kinase N2	0.390400153	0.008390626	0.040314138
ENSMUSG00000024772	Ehd1	EH-domain containing 1	-0.678381024	0.008391634	0.040314138
ENSMUSG00000084822	Myadml2os	myeloid-associated differentiation marker-like 2, opposite strand	-2.974507216	0.008392987	0.040314138
ENSMUSG00000086429	Gt(ROSA)26Sor	gene trap ROSA 26, Philippe Soriano	0.435849204	0.008418942	0.040431902
ENSMUSG00000030123	Plxnd1	plexin D1	0.378638223	0.008423498	0.040446879
ENSMUSG000000100410	2310020H05Rik	RIKEN cDNA 2310020H05 gene	-3.007966644	0.008425373	0.040448979
ENSMUSG00000039873	Neur12	neuronalized-like 2 (Drosophila)	-1.493291412	0.008428193	0.040455613
ENSMUSG000000031443	F7	coagulation factor VII	-1.199680515	0.008443301	0.040521221
ENSMUSG00000033658	Ddx19b	DEAD (Asp-Glu-Ala-Asp) box polypeptide 19b	0.393735912	0.008446271	0.040528557
ENSMUSG00000030530	Furin	furin (paired basic amino acid cleaving enzyme)	0.544267922	0.008457801	0.040576963
ENSMUSG00000019861	Gopc	golgi associated PDZ and coiled-coil motif containing	0.392644847	0.008466077	0.040609744
ENSMUSG00000028060	2810403A07Rik	RIKEN cDNA 2810403A07 gene	0.389155698	0.008476398	0.040652317
ENSMUSG00000021871	Pnp	purine-nucleoside phosphorylase	0.379813039	0.008488766	0.040704697
ENSMUSG00000018900	Slc22a5	solute carrier family 22 (organic cation transporter), member 5	-0.400580176	0.008496177	0.040733292
ENSMUSG00000026353	Ubxn4	UBX domain protein 4	0.368668776	0.008500469	0.040746925
ENSMUSG00000099507	Gm18970	predicted gene, 18970	-2.288183455	0.008503594	0.040754958
ENSMUSG00000020022	Ndufa12	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12	0.448997286	0.008552647	0.040983074
ENSMUSG00000046169	Adamts6	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 6	-0.550226471	0.00856491	0.041034846
ENSMUSG00000030956	Fam53b	family with sequence similarity 53, member B	-0.408181507	0.008572822	0.041065757
ENSMUSG00000055494	Gm14168	predicted gene 14168	-1.035847846	0.008591459	0.041148027
ENSMUSG00000040146	Rgl3	ral guanine nucleotide dissociation stimulator-like 3	-1.007325311	0.008612985	0.041244102
ENSMUSG000000103593	RP24-64D24.3		-0.663498583	0.00861743	0.041258365
ENSMUSG00000033228	Scaf11	SR-related CTD-associated factor 11	0.372096034	0.008627609	0.041300071
ENSMUSG00000055839	Toeb2	transcription elongation factor B (SIII), polypeptide 2	0.40842123	0.008655534	0.0414267
ENSMUSG00000009030	Pdcl	phosducin-like	0.403747167	0.008663359	0.041457097
ENSMUSG00000050973	Gdppp1	GDP-D-glucose phosphorylase 1	-0.507005729	0.008667973	0.041472125
ENSMUSG00000097330	Gm26672	predicted gene, 26672	-1.088422678	0.008695927	0.041472504
ENSMUSG00000051344	Plekhn3	pleckstrin homology domain containing, family M, member 3	0.378073189	0.00868174	0.041523868
ENSMUSG00000051469	Zfp191	zinc finger protein 191	0.392600776	0.008705541	0.04162915
ENSMUSG000000102457	RP23-382H8.2		-1.120257939	0.008706712	0.04162915
ENSMUSG00000032757	Bet1	blocked early in transport 1 homolog (S. cerevisiae)	0.457849154	0.008708764	0.04163189
ENSMUSG00000030897	Ppp4c	protein phosphatase 4, catalytic subunit	0.382965719	0.008713868	0.04164921
ENSMUSG00000029705	Cux1	cut-like homeobox 1	0.388802692	0.008719955	0.041671222
ENSMUSG00000040028	Elavl1	ELAV (embryonic lethal, abnormal vision)-like 1 (Hu antigen R)	0.418676414	0.008727387	0.041699658
ENSMUSG00000038508	Gdf15	growth differentiation factor 15	1.581475531	0.008755802	0.041828318
ENSMUSG00000039108	Lsm14b	LSM14 homolog B (SCD6, S. cerevisiae)	0.381222803	0.00876214	0.041851494
ENSMUSG000000103532	RP23-160G19.9		1.118779922	0.00876529	0.041859428
ENSMUSG00000038400	Pmepa1	prostate transmembrane protein, androgen induced 1	0.418997911	0.008768873	0.041869433
ENSMUSG00000039496	Cdnf	cerebral dopamine neurotrophic factor	-0.881274865	0.00880277	0.042019521
ENSMUSG00000024353	Mzb1	marginal zone B and B1 cell-specific protein 1	-1.486519709	0.008803294	0.042019521
ENSMUSG000000061136	Prpf40a	PRP40 pre-mRNA processing factor 40 homolog A (yeast)	0.39605352	0.008807355	0.042031777
ENSMUSG00000016664	Pacsin2	protein kinase C and casein kinase substrate in neurons 2	0.351343326	0.00881999	0.042077798
ENSMUSG000000103887	RP23-474B13.1		-0.950963574	0.008819401	0.042077798
ENSMUSG000000072962	Gm16401	predicted gene 16401	-4.148376487	0.008827027	0.042104232
ENSMUSG00000000409	Lck	lymphocyte protein tyrosine kinase	0.822092731	0.008829731	0.042109989
ENSMUSG00000005625	Psmc4	proteasome (prosome, macropain) 26S subunit, non-ATPase, 4	0.360607416	0.008854084	0.042218974
ENSMUSG00000025332	Kdm5c	lysine (K)-specific demethylase 5C	0.386881248	0.008861344	0.042246431
ENSMUSG00000039639	Kcne1	potassium voltage-gated channel, Isk-related subfamily, member 1	-2.051541033	0.00885904	0.042356343
ENSMUSG00000074797	Itpa	inosine triphosphatase (nucleoside triphosphate pyrophosphatase)	0.502130901	0.008897549	0.042397483
ENSMUSG000000062116	Zfp954	zinc finger protein 954	0.439738473	0.008896208	0.042397483
ENSMUSG00000092274	Neat1	nuclear paraspeckle assembly transcript 1 (non-protein coding)	-0.746014916	0.008902604	0.042408769
ENSMUSG000000090997	Tbx1	T-box 1	-1.145541369	0.008902932	0.042408769
ENSMUSG00000092353	Gm20539	predicted gene 20539	-1.019165925	0.008907021	0.042421064
ENSMUSG000000104273	RP23-296I6.7		-0.711213973	0.008915568	0.042454582
ENSMUSG00000024422	Dhx16	DEAH (Asp-Glu-Ala-His) box polypeptide 16	-0.388253923	0.008919747	0.042467297
ENSMUSG00000022956	Atp5o	ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit	0.392090338	0.008923834	0.042479562
ENSMUSG00000003458	Ncstn	nicastrin	0.348983828	0.008927872	0.042484407

ENSMUSG0000048222	Mfap1b	microfibrillar-associated protein 1B	-0.459516034	0.008927291	0.042484407
ENSMUSG0000048106	4632415L05Rik	RIKEN cDNA 4632415L05 gene	-0.614186045	0.008939439	0.042532258
ENSMUSG0000022887	Masp1	mannan-binding lectin serine peptidase 1	0.855641772	0.008944263	0.042548015
ENSMUSG0000015354	Pcolce2	procollagen C-endopeptidase enhancer 2	-1.195537165	0.008958436	0.042608229
ENSMUSG00000099241	Gm18852	predicted gene, 18852	-0.61465948	0.008963513	0.042625171
ENSMUSG0000022098	Bmp1	bone morphogenetic protein 1	0.372708618	0.008965972	0.042629666
ENSMUSG0000027075	Slc43a1	solute carrier family 43, member 1	0.93872498	0.008970943	0.042646087
ENSMUSG0000040229	Gpr34	G protein-coupled receptor 34	0.712942725	0.008978786	0.042675527
ENSMUSG00000103324	RP23-355B17.1		-1.923835006	0.00898017	0.042675527
ENSMUSG0000027170	Eif3m	eukaryotic translation initiation factor 3, subunit M	0.40409422	0.008982185	0.04267721
ENSMUSG0000041797	Abca9	ATP-binding cassette, sub-family A (ABC1), member 9	-0.62326153	0.008983558	0.04267721
ENSMUSG00000097960	A330074K22Rik	RIKEN cDNA A330074K22 gene	-2.096017389	0.009040005	0.042938117
ENSMUSG00000104114	RP23-102K8.1		-0.514239697	0.009044479	0.042952116
ENSMUSG00000033967	2310014L17Rik	RIKEN cDNA 2310014L17 gene	1.037592243	0.009051031	0.042975976
ENSMUSG0000020056	Ccdc53	coiled-coil domain containing 53	0.451908316	0.009064433	0.043032335
ENSMUSG0000026941	Mamdc4	MAM domain containing 4	-0.737665344	0.009067999	0.043042012
ENSMUSG00000048728	Zfp454	zinc finger protein 454	-1.282183884	0.009080858	0.043095781
ENSMUSG00000066440	Zfyve26	zinc finger, FYVE domain containing 26	-0.403028982	0.009082816	0.043097803
ENSMUSG00000051022	Hs3st1	heparan sulfate (glucosamine) 3-O-sulfotransferase 1	-0.516298556	0.009090748	0.043126252
ENSMUSG00000082570	Gm15711	predicted gene 15711	-0.985147913	0.009091878	0.043126252
ENSMUSG00000032207	Lipc	lipase, hepatic	1.410299733	0.009102594	0.043164509
ENSMUSG00000040699	Limd2	LIM domain containing 2	0.444153436	0.009104558	0.043164509
ENSMUSG00000085514	Bcas3os2	breast carcinoma amplified sequence 3 opposite strand 2	-3.602856634	0.009104284	0.043164509
ENSMUSG00000055561	Spink5	serine peptidase inhibitor, Kazal type 5	-4.412166886	0.009106008	0.043164509
ENSMUSG00000090881	Gm6904	predicted gene 6904	-2.037433477	0.009108899	0.043170593
ENSMUSG00000030126	Tmcc1	transmembrane and coiled coil domains 1	0.374941516	0.009124521	0.043237349
ENSMUSG00000038212	Hiat1	hippocampus abundant transcript-like 1	0.387827907	0.009137484	0.043291486
ENSMUSG00000036395	Glb1l2	galactosidase, beta 1-like 2	-1.44206415	0.009139739	0.043294878
ENSMUSG00000047592	Nxpe5	neuralexophilin and PC-esterase domain family, member 5	1.669524311	0.009148363	0.043328434
ENSMUSG00000022103	Gfra2	glial cell line derived neurotrophic factor family receptor alpha 2	-1.189152879	0.009164213	0.043396195
ENSMUSG00000029538	Srsf9	serine/arginine-rich splicing factor 9	0.397024561	0.009167797	0.043398558
ENSMUSG00000096780	Tmem181b-ps	transmembrane protein 181B, pseudogene	-0.635668173	0.009166354	0.043398558
ENSMUSG00000067928	Zfp760	zinc finger protein 760	-0.386638863	0.009174757	0.043424199
ENSMUSG00000031575	Ash2l	ash2 (absent, small, or homeotic)-like (Drosophila)	0.413179631	0.009185333	0.043466941
ENSMUSG00000069268	Hist1h2bf	histone cluster 1, H2bf	1.631587427	0.009195804	0.043509175
ENSMUSG00000078137	Ankrd63	ankyrin repeat domain 63	-2.845141011	0.009209233	0.043565386
ENSMUSG00000059182	Skap2	src family associated phosphoprotein 2	0.391513197	0.009214096	0.043581063
ENSMUSG00000033707	Lrrc24	leucine rich repeat containing 24	-0.574898206	0.009235734	0.043676063
ENSMUSG00000054446	Cpa1	carboxypeptidase A1, pancreatic	4.139528334	0.009239802	0.043687959
ENSMUSG00000039977	Ccdc67	coiled-coil domain containing 67	-1.070849547	0.009242613	0.043693906
ENSMUSG00000103793	Pcdhga6	protocadherin gamma subfamily A, 6	-0.459475613	0.009249741	0.043720255
ENSMUSG00000053617	Sh3pxd2a	SH3 and PX domains 2A	0.339784448	0.009260258	0.043762615
ENSMUSG00000019768	Esr1	estrogen receptor 1 (alpha)	0.977571782	0.009271608	0.043808891
ENSMUSG00000064373	Sepp1	selenoprotein P, plasma, 1	-0.418951468	0.009285022	0.043864908
ENSMUSG00000072501	Phf20l1	PHD finger protein 20-like 1	0.372191516	0.009309277	0.043972113
ENSMUSG00000059119	Nap1l4	nucleosome assembly protein 1-like 4	0.377151604	0.009318677	0.044009124
ENSMUSG00000006782	Cnp	2',3'-cyclic nucleotide 3' phosphodiesterase	0.424258404	0.009333231	0.044068279
ENSMUSG00000026150	Mif	mitochondrial fission factor	0.39052975	0.009334336	0.044068279
ENSMUSG00000033307	Mif	macrophage migration inhibitory factor	0.76715849	0.009344961	0.044111104
ENSMUSG00000028419	Chmp5	charged multivesicular body protein 5	0.377830396	0.009359625	0.044172847
ENSMUSG00000029020	Mfn2	mitofusin 2	-0.397678601	0.009364733	0.044189538
ENSMUSG00000031896	Ctrl	chymotrypsin-like	-1.111403353	0.009370724	0.044210393
ENSMUSG00000067274	Rplp0	ribosomal protein, large, P0	0.535089717	0.009392471	0.044305566
ENSMUSG00000022095	Fam160b2	family with sequence similarity 160, member B2	-0.472629816	0.009394588	0.044308121
ENSMUSG00000020823	Sec14l1	SEC14-like 1 (S. cerevisiae)	-0.532757976	0.009410937	0.04437779
ENSMUSG00000028496	Mllt3	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3	-0.422130933	0.009467923	0.044639027
ENSMUSG00000032051	Fdx1	ferredoxin 1	0.429546988	0.009474825	0.044664083
ENSMUSG00000070544	Top1	topoisomerase (DNA) I	0.406159889	0.009487462	0.044716164
ENSMUSG00000037405	Icam1	intercellular adhesion molecule 1	-0.596065031	0.009500463	0.044762442
ENSMUSG00000086693	A730081D07Rik	RIKEN cDNA A730081D07 gene	-1.144278037	0.009499015	0.044762442
ENSMUSG00000054555	Adam12	a disintegrin and metallopeptidase domain 12 (meltrin alpha)	0.780384653	0.009508432	0.044792484
ENSMUSG00000015016	Acsf3	acyl-CoA synthetase family member 3	-0.437507954	0.009536403	0.044916731
ENSMUSG00000035275	Raver2	ribonucleoprotein, PTB-binding 2	-0.893922958	0.009540612	0.044929034
ENSMUSG00000030125	Lrrc23	leucine rich repeat containing 23	-1.642745361	0.009546336	0.044948462
ENSMUSG00000052676	Zmat1	zinc finger, matrin type 1	-0.387806119	0.009569405	0.045048194
ENSMUSG00000051844	B230319C09Rik	RIKEN cDNA B230319C09 gene	-2.179735161	0.00957072	0.045048194
ENSMUSG00000001138	Cnnm3	cyclin M3	-0.413278791	0.009586685	0.045115793
ENSMUSG00000097571	Jpx	Jpx transcript, Xist activator (non-protein coding)	-0.57830102	0.009610541	0.045220496
ENSMUSG00000024076	Vit	vitron	-1.334299559	0.009620562	0.045260081
ENSMUSG00000038067	Csf3	colony stimulating factor 3 (granulocyte)	1.237746232	0.009634009	0.045315763
ENSMUSG00000040220	Gas8	growth arrest specific 8	0.44508558	0.009658168	0.045421803
ENSMUSG00000029613	Eif2ak1	eukaryotic translation initiation factor 2 alpha kinase 1	0.400709987	0.00967981	0.045515975
ENSMUSG00000030283	St8sia1	ST8 alpha-N-acetyl-neuraminidase alpha-2,8-sialyltransferase 1	1.404675514	0.009691693	0.045541407

ENSMUSG00000031996	Ap1p2	amyloid beta (A4) precursor-like protein 2	0.35863305	0.009689222	0.045541407
ENSMUSG00000038534	Osbp17	oxysterol binding protein-like 7	-0.45720029	0.009687739	0.045541407
ENSMUSG00000098651	Mir6999	microRNA 6999	-1.547765302	0.009690914	0.045541407
ENSMUSG00000036501	Fam13b	family with sequence similarity 13, member B	0.377291974	0.009695501	0.045551693
ENSMUSG00000031337	Mtm1	X-linked myotubular myopathy gene 1	0.41606521	0.009709661	0.045611093
ENSMUSG00000014470	Rnf166	ring finger protein 166	-0.507109192	0.009720415	0.045653495
ENSMUSG00000035934	Pknx2	Pbx/knotted 1 homeobox 2	-0.62221338	0.009729805	0.045689969
ENSMUSG00000070720	Tmem200b	transmembrane protein 200B	-0.98588216	0.00973486	0.045706076
ENSMUSG00000102411	RP23-461P4.1		-0.351365894	0.009742311	0.045733429
ENSMUSG00000022570	Tsta3	tissue specific transplantation antigen P35B	0.41034026	0.009746956	0.045747598
ENSMUSG00000022580	Rhpn1	rhophilin, Rho GTPase binding protein 1	-2.996638883	0.009751856	0.045762963
ENSMUSG00000072964	Bhlhb9	basic helix-loop-helix domain containing, class B9	0.427561592	0.009770287	0.045834163
ENSMUSG00000053889	Kirrel3os	kin of IRRE like 3 (Drosophila), opposite strand	-1.298546555	0.009770119	0.045834163
ENSMUSG00000046573	Lyrm4	LYR motif containing 4	0.583245161	0.009784978	0.045895431
ENSMUSG00000021567	Nkd2	naked cuticle 2 homolog (Drosophila)	-0.779273223	0.009788579	0.045904667
ENSMUSG00000022336	Eif3e	eukaryotic translation initiation factor 3, subunit E	0.383997878	0.009810232	0.045998541
ENSMUSG00000104034	RP23-446D4.7		-1.071872769	0.009837502	0.046118721
ENSMUSG00000020802	Ube2o	ubiquitin-conjugating enzyme E2O	-0.46343714	0.009844743	0.046144979
ENSMUSG00000003526	Prodh	proline dehydrogenase	-1.055455842	0.009873466	0.046271901
ENSMUSG00000027176	Cstf3	cleavage stimulation factor, 3' pre-RNA, subunit 3	0.405834001	0.009880327	0.046296341
ENSMUSG00000040329	Il7	interleukin 7	-0.677632662	0.009886573	0.046317894
ENSMUSG00000043858	Nup62	nucleoporin 62	0.41122813	0.00991678	0.046451675
ENSMUSG00000031352	Hccs	holocytochrome c synthetase	0.416473379	0.009924798	0.046481495
ENSMUSG00000043811	Rtn4r	reticulum 4 receptor	-3.125074453	0.00992764	0.046487065
ENSMUSG00000062319	Gm10115	predicted gene 10115	-2.012385282	0.009941614	0.046544752
ENSMUSG00000081873	Gm15197	predicted gene 15197	-1.339025716	0.009946716	0.04656089
ENSMUSG00000050796	B3gal16	UDP-Gal:betaGal beta 1,3-galactosyltransferase, polypeptide 6	0.524564715	0.009970634	0.04666509
ENSMUSG00000079671	2610203C22Rik	RIKEN cDNA 2610203C22 gene	0.638555303	0.009975957	0.046682234
ENSMUSG00000086877	A230072C01Rik	RIKEN cDNA A230072C01 gene	-0.699100602	0.009979337	0.046690285
ENSMUSG00000084866	A930006K02Rik	RIKEN cDNA A930006K02 gene	0.817604027	0.009982706	0.04669828
ENSMUSG00000035042	Ccl5	chemokine (C-C motif) ligand 5	1.326417052	0.00999216	0.046726968
ENSMUSG00000064210	Ano6	anoctamin 6	0.337979709	0.009991257	0.046726968
ENSMUSG00000048776	Pthlh	parathyroid hormone-like peptide	-0.734932777	0.009995568	0.046735136
ENSMUSG00000054717	Hmgb2	high mobility group box 2	0.636519062	0.00999847	0.046740934
ENSMUSG00000030111	A2m	alpha-2-macroglobulin	0.841837105	0.01001642	0.046817069
ENSMUSG00000066829	Zfp810	zinc finger protein 810	-0.448220732	0.010035854	0.046892324
ENSMUSG00000002910	Arrec2	arrestin domain containing 2	-0.61236033	0.010035555	0.046892324
ENSMUSG00000087030	Gm16143	predicted gene 16143	-2.331533238	0.010037786	0.046893562
ENSMUSG00000037400	Atp11b	ATPase, class VI, type 11B	0.395699647	0.010042874	0.046909544
ENSMUSG00000027067	Ssrp1	structure specific recognition protein 1	0.420446924	0.010048902	0.046929906
ENSMUSG00000046949	Nqo2	NAD(P)H dehydrogenase, quinone 2	0.496780853	0.010075334	0.047045541
ENSMUSG00000040732	Erg	avian erythroblastosis virus E-26 (v-ets) oncogene related	0.341670969	0.010082613	0.047071715
ENSMUSG00000020357	Flt4	FMS-like tyrosine kinase 4	0.357726341	0.01008994	0.047098105
ENSMUSG00000024942	Capn1	calpain 1	0.430568707	0.010103419	0.047153199
ENSMUSG00000018379	Srsf1	serine/arginine-rich splicing factor 1	0.418021931	0.010110408	0.047177991
ENSMUSG00000052852	Reep1	receptor accessory protein 1	-0.407851099	0.010124541	0.047236105
ENSMUSG00000035086	Becn1	beclin 1, autophagy related	0.350005184	0.010126514	0.047237478
ENSMUSG00000027834	Serpini1	serine (or cysteine) peptidase inhibitor, clade I, member 1	-0.420484109	0.010175496	0.047458096
ENSMUSG00000032850	Rnf2	ring finger protein, transmembrane 2	-0.87456138	0.010182311	0.047482006
ENSMUSG00000021236	Entpd5	ectonucleoside triphosphate diphosphohydrolase 5	-0.341961835	0.010186761	0.047494886
ENSMUSG00000065954	Tacc1	transforming, acidic coiled-coil containing protein 1	0.34423349	0.010194671	0.047523889
ENSMUSG00000037526	Atg14	autophagy related 14	-0.410128056	0.010203357	0.047556501
ENSMUSG00000102664	RP23-125I14.1		-0.602213628	0.010244529	0.04774049
ENSMUSG00000044461	Shisa2	shisa family member 2	-1.532007365	0.010246395	0.047741276
ENSMUSG00000079547	H2-DMb1	histocompatibility 2, class II, locus Mb1	-0.989047542	0.010261555	0.047803997
ENSMUSG00000103268	AC161246.1		-0.694813698	0.010277639	0.047870994
ENSMUSG00000018567	Gabarap	gamma-aminobutyric acid receptor associated protein	0.364627285	0.010280261	0.047875283
ENSMUSG00000027487	Cdk5rap1	CDK5 regulatory subunit associated protein 1	-0.486804812	0.010282143	0.04787612
ENSMUSG00000046317	BC107364	cDNA sequence BC107364		0.01028704	0.047890998
ENSMUSG00000037991	Rmi2	RMI2, RecQ mediated genome instability 2, homolog (S. cerevisiae)	1.624736593	0.010312947	0.047995722
ENSMUSG00000041733	Coq5	coenzyme Q5 homolog, methyltransferase (yeast)	-0.391429527	0.010311405	0.047995722
ENSMUSG00000055653	Gpc3	glypican 3	-0.549380647	0.010356623	0.048191014
ENSMUSG00000033933	Vhl	von Hippel-Lindau tumor suppressor	0.415315202	0.010362542	0.048210582
ENSMUSG00000048264	Dip2c	DIP2 disco-interacting protein 2 homolog C (Drosophila)	-0.39326984	0.010370158	0.04823804
ENSMUSG00000025240	Sacm11	SAC1 (suppressor of actin mutations 1, homolog)-like (S. cerevisiae)	0.393342112	0.010396345	0.048351854
ENSMUSG00000028820	Sfpq	splicing factor proline/glutamine rich (polypyrimidine tract binding protein associated)	0.387629461	0.010403331	0.048376349
ENSMUSG00000025217	Btrc	beta-transducin repeat containing protein	-0.418343227	0.010415272	0.048423869
ENSMUSG00000032180	Tmed1	transmembrane emp24 domain containing 1	0.482729348	0.010439843	0.048530089
ENSMUSG00000079069	8430423G03Rik	RIKEN cDNA 8430423G03 gene	4.368197507	0.010447659	0.048542359
ENSMUSG00000004789	Dist	dihydroliipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex)	0.365690026	0.010446599	0.048542359
ENSMUSG00000063856	Gpx1	glutathione peroxidase 1	-0.513158325	0.010445663	0.048542359
ENSMUSG00000036591	Arhgap21	Rho GTPase activating protein 21	0.364116737	0.010482823	0.048697699
ENSMUSG00000018736	Ndel1	nuclear distribution gene E-like homolog 1 (A. nidulans)	0.355133989	0.010488317	0.048707133

ENSMUSG00000032594	Ip6k1	inositol hexaphosphate kinase 1	-0.398068007	0.010487629	0.048707133
ENSMUSG00000031433	Rbm41	RNA binding motif protein 41	0.409482163	0.010502723	0.048765983
ENSMUSG00000007035	Msh5	mutS homolog 5 (E. coli)	-0.545452556	0.010505189	0.048769388
ENSMUSG00000022663	Atg3	autophagy related 3	0.41298289	0.010511597	0.048791086
ENSMUSG000000041319	Thoc6	THO complex 6 homolog (Drosophila)	0.446799668	0.010511711	0.048808904
ENSMUSG00000025417	Pip4K2c	phosphatidylinositol-5-phosphate 4-kinase, type II, gamma	-0.372643714	0.0105207	0.048817228
ENSMUSG00000093579	Gm20036	predicted gene, 20036	1.78938059	0.010525049	0.048829354
ENSMUSG00000038954	Supt3	suppressor of Ty 3	-0.55341834	0.010536908	0.048876313
ENSMUSG00000086165	Gm15690	predicted gene 15690	-1.690292897	0.010542078	0.048892231
ENSMUSG000000031729	Ist1	increased sodium tolerance 1 homolog (yeast)	0.360671386	0.010570434	0.049015661
ENSMUSG00000091275	Gm3248	predicted gene 3248	0.865516386	0.010578563	0.049045272
ENSMUSG00000097859	Gm26601	predicted gene, 26601	-0.889076947	0.010591246	0.049095982
ENSMUSG00000029098	Acox3	acyl-Coenzyme A oxidase 3, pristanoyl	-0.412326609	0.010599355	0.049125476
ENSMUSG00000029627	Zkscan14	zinc finger with KRAB and SCAN domains 14	-0.554127328	0.010618834	0.049207653
ENSMUSG00000058975	Kcnc1	potassium voltage gated channel, Shaw-related subfamily, member 1	-4.263448404	0.010624533	0.049225954
ENSMUSG00000074746	Pdzd8	PDZ domain containing 8	0.360657294	0.010631549	0.049242242
ENSMUSG000000061601	Pclo	piccolo (presynaptic cytomatrix protein)	-2.478261304	0.010630196	0.049242242
ENSMUSG00000033809	Alg3	asparagine-linked glycosylation 3 (alpha-1,3-mannosyltransferase)	0.570939998	0.010644195	0.049287746
ENSMUSG000000001419	Mef2d	myocyte enhancer factor 2D	-0.410403868	0.010644878	0.049287746
ENSMUSG00000034292	Traf3ip1	TRAF3 interacting protein 1	-0.476191687	0.010662035	0.049359064
ENSMUSG00000010025	Aldh3a2	aldehyde dehydrogenase family 3, subfamily A2	0.375171309	0.010670087	0.049388214
ENSMUSG00000030330	Ing4	inhibitor of growth family, member 4	-0.357683377	0.010684673	0.049447589
ENSMUSG00000036499	Eea1	early endosome antigen 1	0.368599247	0.010693765	0.049481526
ENSMUSG000000001166	Oas1c	2'-5' oligoadenylate synthetase 1C	-0.554397056	0.010701084	0.049507253
ENSMUSG00000094420	Igkv10-96	immunoglobulin kappa variable 10-96	-2.282252956	0.010727716	0.049622301
ENSMUSG00000033082	Clec1a	C-type lectin domain family 1, member a	0.364560155	0.010743183	0.049685677
ENSMUSG00000021846	Pel12	pellino 2	0.331223938	0.01074566	0.049688961
ENSMUSG00000044916	1700029115Rik	RIKEN cDNA 1700029115 gene	-0.843120438	0.010748699	0.049694848
ENSMUSG00000076928	Trac	T cell receptor alpha constant	-0.944087016	0.01075463	0.049714097
ENSMUSG00000039765	Cc2d2a	coiled-coil and C2 domain containing 2A	-0.339451668	0.010759968	0.049730601
ENSMUSG00000003070	EfnA2	ephrin A2	-1.499797094	0.010763327	0.049737954
ENSMUSG00000022718	Dgcr8	DiGeorge syndrome critical region gene 8	0.42928474	0.010782309	0.049817489
ENSMUSG00000006169	Clint1	clathrin interactor 1	0.361914185	0.010798106	0.049882286
ENSMUSG00000031370	Zrsr2	zinc finger (CCCH type), RNA binding motif and serine/arginine rich 2	0.389030816	0.010807237	0.049916268
ENSMUSG00000095649	Gm8979	predicted gene 8979	0.734497547	0.010823044	0.049974754
ENSMUSG00000086316	2210013O21Rik	RIKEN cDNA 2210013O21 gene	0.397066914	0.010825228	0.049974754
ENSMUSG00000035104	Eva1a	eva-1 homolog A (C. elegans)	0.362660436	0.010824953	0.049974754

Supplemental Table 2. Differentially expressed genes (q<0.05) in cardiac microvascular EC obtained from EC-Klf2 -KO in comparison to CRE mice at day 6 post-tamoxifen.

Ensembl_ID	Gene	Description	EC-Klf2-KOvsCRE.log2FC	EC-Klf2-KOvsCRE.RawP	EC-Klf2-KOvsCRE.FDR
ENSMUSG00000099397	Gm7809	predicted gene 7809	5.325453952	2.38E-126	7.74E-122
ENSMUSG00000019732	Calr3	calreticulin 3	3.163382045	9.08E-27	1.48E-22
ENSMUSG000000082431	Tdpx-ps1	thioredoxin peroxidase, pseudogene 1	Inf	7.75E-13	8.39E-09
ENSMUSG00000004996	Mri1	methylthioribose-1-phosphate isomerase homolog (S. cerevisiae)	-1.278745073	2.29E-11	1.86E-07
ENSMUSG00000026580	Selp	selectin, platelet	0.940740916	5.13E-10	3.33E-06
ENSMUSG00000033368	Trim69	tripartite motif-containing 69	1.086276767	8.45E-10	4.57E-06
ENSMUSG00000026582	Sele	selectin, endothelial cell	0.822360138	1.66E-09	7.71E-06
ENSMUSG00000048012	Zfp473	zinc finger protein 473	1.59173322	9.05E-09	3.68E-05
ENSMUSG00000036412	Arsi	arylsulfatase i	1.198143463	5.80E-08	0.000209352
ENSMUSG00000053693	Mast1	microtubule associated serine/threonine kinase 1	2.940868368	7.12E-08	0.000231375
ENSMUSG00000040998	Nprt	nephronectin	1.12901713	1.14E-07	0.000337098
ENSMUSG00000018486	Wnt9b	wingless-type MMTV integration site family, member 9B	-1.292683096	2.19E-07	0.000591995
ENSMUSG00000038067	Csf3	colony stimulating factor 3 (granulocyte)	2.242641687	2.76E-07	0.000691156
ENSMUSG000000098702	1500015A07Rik	RIKEN cDNA 1500015A07 gene	1.617474599	3.00E-07	0.000695686
ENSMUSG00000031886	Ces2e	carboxylesterase 2E	-0.798180772	3.48E-07	0.000754757
ENSMUSG00000073555	Gm4951	predicted gene 4951	-2.346762795	4.33E-07	0.000879972
ENSMUSG00000005142	Man2b1	mannosidase 2, alpha B1	-0.698681291	4.88E-07	0.00093308
ENSMUSG00000006403	Adams4	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 4	1.675639191	9.23E-07	0.001589082
ENSMUSG00000022528	Hes1	hairly and enhancer of split 1 (Drosophila)	0.69500974	9.29E-07	0.001589082
ENSMUSG00000055148	Klf2	Kruppel-like factor 2 (lung)	-1.107237858	1.40E-06	0.002277654
ENSMUSG00000053175	Bcl3	B cell leukemia/lymphoma 3	0.786825162	1.89E-06	0.002927871
ENSMUSG00000034987	Hrh2	histamine receptor H2	0.839010873	2.75E-06	0.004058506
ENSMUSG00000083890	Gm15703	predicted gene 15703	5.222214197	4.40E-06	0.006027478
ENSMUSG00000054589	Gm9949	predicted gene 9949	-2.001139258	4.45E-06	0.006027478
ENSMUSG00000068606	Gm4841	predicted gene 4841	2.011302694	7.03E-06	0.009132972
ENSMUSG00000025746	Il6	interleukin 6	0.930339847	7.46E-06	0.009320688
ENSMUSG00000030309	Caprin2	caprin family member 2	0.835363449	1.14E-05	0.013781242
ENSMUSG00000024810	Il33	interleukin 33	-0.86127665	1.21E-05	0.014072391
ENSMUSG00000042688	Mapk6	mitogen-activated protein kinase 6	0.588298368	1.39E-05	0.015599065
ENSMUSG00000037405	Icam1	intercellular adhesion molecule 1	0.886609296	1.81E-05	0.019659799
ENSMUSG00000031016	Wee1	WEE 1 homolog 1 (S. pombe)	-0.78143283	1.88E-05	0.01975742
ENSMUSG00000015312	Gadd45b	growth arrest and DNA-damage-inducible 45 beta	0.834449829	2.04E-05	0.020701699
ENSMUSG00000047945	Marcks1	MARCKS-like 1	0.680642	2.29E-05	0.022543845
ENSMUSG00000039220	Ppp1r10	protein phosphatase 1, regulatory subunit 10	0.576138774	3.00E-05	0.028642128
ENSMUSG00000036931	Nfkbid	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, delta	0.758563093	3.11E-05	0.028841586
ENSMUSG00000101166	Gm28496	predicted gene 28496	1.313122815	4.01E-05	0.035197112
ENSMUSG00000079588	Tmem182	transmembrane protein 182	0.846348319	3.91E-05	0.035197112
ENSMUSG00000051855	Mest	mesoderm specific transcript	0.547901526	4.30E-05	0.03677855
ENSMUSG00000024486	Hbegf	heparin-binding EGF-like growth factor	0.720154776	4.76E-05	0.039668744
ENSMUSG00000054321	Taf4b	TAF4B RNA polymerase II, TATA box binding protein (TBP)-associated factor	0.596777036	5.14E-05	0.039794194
ENSMUSG00000022951	Rcan1	regulator of calcineurin 1	0.573481698	4.92E-05	0.039794194
ENSMUSG00000003039	Fam32a	family with sequence similarity 32, member A	-0.559109041	5.08E-05	0.039794194
ENSMUSG00000037465	Klf10	Kruppel-like factor 10	0.529039643	6.49E-05	0.049085745
ENSMUSG00000024912	Fosl1	fos-like antigen 1	1.207593703	6.84E-05	0.049586404
ENSMUSG00000072620	Sifn2	schlafen 2	-0.563823489	6.87E-05	0.049586404

Supplemental Table 3. Differentially expressed genes (q<0.05) in cardiac microvascular EC obtained from EC-*Klf4*-KO in comparison to CRE mice at day 6 post-tamoxifen.

Ensembl_ID	Gene	Description	EC- <i>Klf4</i> -KOvsCRE.log2FC	EC- <i>Klf4</i> -KOvsCRE.RawP	EC- <i>Klf4</i> -KOvsCRE.FDR
ENSMUSG00000099397	Gm7809	predicted gene 7809	2.336632522	3.73E-23	1.21E-18
ENSMUSG00000040183	Ankrd6	ankyrin repeat domain 6	1.442298115	3.96E-14	6.44E-10
ENSMUSG00000027500	Stmn2	stathmin-like 2	-0.998110884	1.11E-09	1.20E-05
ENSMUSG00000046312	AI464131	expressed sequence AI464131	1.390946176	1.55E-09	1.26E-05
ENSMUSG00000018486	Wnt9b	wingless-type MMTV integration site family, member 9B	-1.445448571	2.86E-09	1.86E-05
ENSMUSG00000026582	Sele	selectin, endothelial cell	0.752313768	1.38E-08	7.50E-05
ENSMUSG00000006014	Prg4	proteoglycan 4 (megakaryocyte stimulating factor, articular superficial zone protein)	-0.862220825	6.74E-08	0.000313016
ENSMUSG00000022696	Sid1	SID1 transmembrane family, member 1	-1.174471021	8.68E-08	0.00035275
ENSMUSG00000073888	Ccl27a	chemokine (C-C motif) ligand 27A	-2.956851904	1.98E-07	0.000716015
ENSMUSG00000051669	AU021092	expressed sequence AU021092	-1.082342247	3.43E-07	0.001113546
ENSMUSG00000022237	Ankrd33b	ankyrin repeat domain 33B	-0.678378529	4.18E-07	0.001236406
ENSMUSG00000031886	Ces2e	carboxylesterase 2E	-0.756431721	1.28E-06	0.00331091
ENSMUSG00000030110	Ret	ret proto-oncogene	-1.102421216	1.32E-06	0.00331091
ENSMUSG00000034987	Hrh2	histamine receptor H2	-0.904441988	1.73E-06	0.004016249
ENSMUSG00000021087	Rtn1	reticulon 1	-0.806377393	3.03E-06	0.006157979
ENSMUSG00000096917	2500002B13Rik	RIKEN cDNA 2500002B13 gene	-1.064802676	2.86E-06	0.006157979
ENSMUSG00000028132	Tmem56	transmembrane protein 56	0.894639219	4.44E-06	0.008495652
ENSMUSG00000054000	Tusc1	tumor suppressor candidate 1	1.027297784	4.90E-06	0.008845923
ENSMUSG00000026580	Selp	selectin, platelet	0.675539162	5.69E-06	0.009725117
ENSMUSG00000028393	Alad	aminolevulinatase, delta-, dehydratase	1.057986794	6.56E-06	0.010152093
ENSMUSG00000020151	Ptprr	protein tyrosine phosphatase, receptor type, R	-0.838530171	6.48E-06	0.010152093
ENSMUSG00000031734	Irx3	Iroquois related homeobox 3	-1.168845809	7.26E-06	0.010726418
ENSMUSG00000024011	Pi16	peptidase inhibitor 16	-1.070818921	1.28E-05	0.018053853
ENSMUSG00000052516	Robo2	roundabout homolog 2 (Drosophila)	-0.906412132	1.47E-05	0.019928209
ENSMUSG00000041046	Ramp3	receptor (calcitonin) activity modifying protein 3	-0.982313528	1.85E-05	0.024034981
ENSMUSG00000047511	Olfir1396	olfactory receptor 1396	-0.714890972	2.04E-05	0.025493298
ENSMUSG00000068196	Col8a1	collagen, type VIII, alpha 1	-0.571391791	2.71E-05	0.032626747
ENSMUSG00000038422	Hdhd3	haloacid dehalogenase-like hydrolase domain containing 3	1.330775491	3.06E-05	0.035503495
ENSMUSG00000061353	Cxcl12	chemokine (C-X-C motif) ligand 12	-0.517092454	4.33E-05	0.048577241
ENSMUSG00000030683	Sez6l2	seizure related 6 homolog like 2	-0.542209677	4.61E-05	0.049915306

Supplemental Table 4. Differentially expressed genes (q<0.05) in the Hallmark coagulation pathway (EC-DKO vs CRE) at day 6 post-tamoxifen

Ensembl_ID	Gene	Description	EC-DKO vs CRE.log2FC	EC-DKO vs CRE.RawP	EC-DKO vs CRE.FDR
ENSMUSG00000027875	Hmgcs2	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2	-2.044163402	3.82E-05	0.000360995
ENSMUSG00000064023	Klk8	kallikrein related-peptidase 8	-2.184932988	2.64E-19	3.55E-17
ENSMUSG00000030054	Gp9	glycoprotein 9 (platelet)	-1.494656684	0.003454284	0.018829565
ENSMUSG00000074743	Thbd	thrombomodulin	-1.987964929	4.29E-29	1.49E-26
ENSMUSG00000031066	Usp11	ubiquitin specific peptidase 11	-1.016095878	1.84E-06	2.45E-05
ENSMUSG00000018593	Sparc	secreted acidic cysteine rich glycoprotein	1.92362113	4.01E-43	4.51E-40
ENSMUSG00000037411	Serpine1	serine (or cysteine) peptidase inhibitor, clade E, member 1	2.968612577	7.75E-10	2.15E-08
ENSMUSG00000001131	Timp1	tissue inhibitor of metalloproteinase 1	3.617368817	9.90E-15	6.84E-13
ENSMUSG00000020689	Itgb3	integrin beta 3	2.676751127	5.99E-08	1.13E-06
ENSMUSG00000000957	Mmp14	matrix metalloproteinase 14 (membrane-inserted)	3.346851409	1.60E-14	1.06E-12
ENSMUSG00000015533	Itga2	integrin alpha 2	2.426126163	9.20E-21	1.48E-18
ENSMUSG00000029664	Tfpi2	tissue factor pathway inhibitor 2	1.178684483	8.38E-12	3.48E-10
ENSMUSG00000040152	Thbs1	thrombospondin 1	2.513729725	1.48E-08	3.12E-07
ENSMUSG00000043613	Mmp3	matrix metalloproteinase 3	3.179156931	2.70E-05	0.000265317
ENSMUSG00000030162	Olr1	oxidized low density lipoprotein (lectin-like) receptor 1	1.933678157	1.66E-07	2.83E-06
ENSMUSG00000001249	Hpn	hepsin	1.084598753	0.00194077	0.011415364
ENSMUSG00000042622	Maff	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein F (avian)	1.201299954	1.78E-05	0.000184435
ENSMUSG00000026715	Serpinc1	serine (or cysteine) peptidase inhibitor, clade C (antithrombin), member 1	1.343104001	3.88E-08	7.58E-07
ENSMUSG00000021822	Plau	plasminogen activator, urokinase	2.243213549	5.79E-49	9.58E-46
ENSMUSG00000031538	Plat	plasminogen activator, tissue	1.588270362	4.34E-05	0.000403984
ENSMUSG00000021190	Lgmn	legumain	1.257164738	5.28E-10	1.51E-08
ENSMUSG00000026421	Csrp1	cysteine and glycine-rich protein 1	1.241158903	3.64E-19	4.76E-17
ENSMUSG00000024659	Anxa1	annexin A1	1.54903684	7.43E-27	1.99E-24
ENSMUSG00000021877	Arf4	ADP-ribosylation factor 4	1.013203713	2.50E-12	1.17E-10

Supplemental Table 5. Primer sequences for qPCR (TaqMan) analysis.

Gene	Forward (5' to 3')	Reverse (5' to 3')	Probe number
<i>Klf2</i>	ctaaaggcgcatctgcgta	tagtggcgggtaagctcgt	48
<i>Klf4</i>	cggaaggagaagacact	gagttcctcacgccaacg	62
<i>Nos3</i>	atccagtgccctgctca	gcagggcaagtaggatcag	12
<i>Thbd</i>	atgctggagcatgagt	ctggcatcgaggaaggtc	81
<i>Serpine1</i>	aggatcgaggtaaacgagagc	gcgggctgagatgacaaa	69
<i>Gapdh</i>	tgtccgtcgtgatctgac	cctgctcaccacctcttg	80
<i>F3</i>	ttctccaggaaaactaaccaaaa	ccacaatgatgagtgttctcc	38
<i>F2r13</i>	tgctgtatcctttggtgctg	tagatgctgggggtctgg	64
<i>Esam</i>	ggtttgtcctgggactga	cgtgcaactccatctgagc	7
<i>Ceacam1</i>	tgtgaaatctgaatccagtca	tctgagaggcctcctgtgt	63
<i>Jam2</i>	gaacctgcaggaagataaagta	gcactcacaggcaggaac	92
<i>Jam3</i>	gaactcggagacaggcactc	tactgccagagtcgtcctt	56
<i>Cgn1</i>	gagtgtggaggaggcaacc	tggctctgcttgaggagt	18
<i>Cldn5</i>	acgggaggagcgctttac	gttggcgaaccagcagag	66
<i>Cldn11</i>	gcctggagtggccaagta	agatggtggcgacaatgg	20
<i>Cldn12</i>	ctctgtcgcaggcctctt	aatgtgatcagccgagttt	38
<i>Tjp1</i>	ttgagagcaagccttctgc	agcatcagttcgggtttc	4
<i>Afdn</i>	gagaatccaaggactactgtattg	gcacctctctcatcagaatgc	1
<i>Cgn</i>	gaccgactcaacaaagagctg	ggcctttccttgaatcttcc	1
<i>Ocln</i>	gtccgtgaggccttttga	ggtgcataatgattgggttg	10
<i>Vcl</i>	aggagactgcaagacagg	gccgtgccactgttta	110
<i>Actn2</i>	ttgctgctcaggccaat	agctccgagcgatctct	81
<i>Ctnnal1</i>	cgctgctaaggaaatcagt	tgggctttggaagtgaaga	91
<i>Ctnna3</i>	tgccatattcatgagcacac	ttgacatggaacaagccaga	10
<i>Cdh5</i>	gtcaagttgccctgaagaa	gtgatgtggcgggtgtgt	56