

Supplementary Table 1. Gene sets from Figure 6. Lists of genes from each individual gene set defined in Figure 6, including the fold-change in expression of each gene in treatment group pair-wise comparisons. ENSEMBL: Ensembl gene identifier; Symbol: official gene symbol; logFC: log fold change; p value: significance of fold-change in a pair-wise comparison, $P < 0.05$ cut-off; FDR: false discovery rate, expected proportion of false positives among the differentially expressed genes in a pair-wise comparison (FDR < 0.25 cut-off).

Sup. Table 1 SET 1

ENSEMBL	Symbol	CP versus Sal			CP versus CP+DCA			DCA versus Sal			
		logFC	Pvalue	FDR	logFC	Pvalue	FDR	logFC	Pvalue	FDR	
ENSMUSG0000020326	Ccng1	2.64	0.00	0.00	-0.06	0.13	0.96	0.40	0.00	0.23	cyg11 [Source:MGJ Symbol:Acc:MGJ:102890]
ENSMUSG0000021898	Ca2	3.97	0.00	0.00	-0.24	0.02	0.25	0.01	1.00	1.00	cathepsin 2E [Source:MGJ Symbol:Acc:MGJ:2443470]
ENSMUSG0000041959	S100a10	2.31	0.00	0.00	-0.21	0.02	0.23	-0.11	0.53	1.00	S100 calcium binding protein A10 (calpactin) [Source:MGJ Symbol:Acc:MGJ:1339468]
ENSMUSG0000092341	Malat1	1.09	0.00	0.00	-0.11	0.20	1.00	0.66	0.00	0.00	metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA) [Source:MGJ Symbol:Acc:MGJ:1919593]
ENSMUSG0000072949	Acca1	1.73	0.00	0.00	-0.22	0.01	0.12	-0.44	0.01	1.00	acyl-CoA thioesterase 1 [Source:MGJ Symbol:Acc:MGJ:1343936]
ENSMUSG0000064339	mt-Rnr2	1.09	0.00	0.00	-0.08	0.17	1.00	0.67	0.00	0.00	mitochondrially encoded 16S rRNA [Source:MGJ Symbol:Acc:MGJ:102492]
ENSMUSG0000022594	Rh3	1.86	0.00	0.00	-0.28	0.01	0.13	-0.37	0.03	1.00	glutathione S-transferase, alpha 3 [Source:MGJ Symbol:Acc:MGJ:95686]
ENSMUSG0000038733	Zma3	2.11	0.00	0.00	-0.32	0.01	0.11	-0.03	0.93	1.00	BCL2-associated X protein [Source:MGJ Symbol:Acc:MGJ:99702]
ENSMUSG0000027863	Zma33	2.27	0.00	0.00	-0.25	0.05	0.48	0.23	0.46	1.00	zinc finger matrix type 3 [Source:MGJ Symbol:Acc:MGJ:1195270]
ENSMUSG0000033634	Cmi2	1.78	0.00	0.00	-0.02	0.85	1.00	-0.32	0.13	1.00	camelid-like 2 [Source:MGJ Symbol:Acc:MGJ:2136446]
ENSMUSG0000026762	E2f4	1.21	0.00	0.00	-0.21	0.02	0.25	0.12	0.38	1.00	epoxide inducible 2 mRNA [Source:MGJ Symbol:Acc:MGJ:108090]
ENSMUSG0000036678	Asaa	2.48	0.00	0.00	-0.23	0.11	0.86	-0.06	0.91	1.00	achalasia, adrenocortical insufficiency, alacrima [Source:MGJ Symbol:Acc:MGJ:2443767]
ENSMUSG0000064337	mt-Rnr1	1.30	0.00	0.00	-0.15	0.03	0.33	0.61	0.00	0.56	mitochondrially encoded 12S rRNA [Source:MGJ Symbol:Acc:MGJ:102493]
ENSMUSG0000021226	Acca2	1.67	0.00	0.00	-0.32	0.00	0.05	-0.26	0.22	1.00	acyl-CoA thioesterase 2 [Source:MGJ Symbol:Acc:MGJ:2159605]
ENSMUSG0000038776	EphrA1	1.88	0.00	0.00	-0.04	0.78	1.00	-0.10	0.70	1.00	epoxide hydrolase 1, microsomal [Source:MGJ Symbol:Acc:MGJ:95405]
ENSMUSG0000024769	Cdk42bpa	1.26	0.00	0.00	-0.18	0.04	0.46	0.03	0.83	1.00	CDC42 binding protein kinase 4 cytosolic 1 [Source:MGJ Symbol:Acc:MGJ:2652845]
ENSMUSG0000040918	Slc19a2	2.23	0.00	0.00	-0.43	0.00	0.08	0.14	0.68	1.00	solute carrier family 19 (thiamine transporter), member 2 [Source:MGJ Symbol:Acc:MGJ:1928761]
ENSMUSG0000032060	Cybb	1.69	0.00	0.00	0.10	0.47	1.00	0.18	0.36	1.00	crystallin, alpha B [Source:MGJ Symbol:Acc:MGJ:88516]
ENSMUSG0000007891	Csd1	0.73	0.00	0.00	-0.14	0.01	0.20	-0.06	0.45	1.00	cathelain D [Source:MGJ Symbol:Acc:MGJ:88562]
ENSMUSG0000033534	Ddr1	1.09	0.00	0.00	-0.24	0.00	0.08	-0.07	0.61	1.00	FAT tumor suppressor homolog 1 [Drosophila] [Source:MGJ Symbol:Acc:MGJ:109168]
ENSMUSG0000048468	6530418L21Rk	5.34	0.00	0.00	-0.47	0.04	0.43	0.01	0.61	1.00	disoidin domain receptor family, member 1 [Source:MGJ Symbol:Acc:MGJ:98216]
ENSMUSG0000033865	Ucp2	1.36	0.00	0.00	0.00	1.00	1.00	0.17	1.00	1.00	RIKEN cDNA 6530418L21 gene [Source:MGJ Symbol:Acc:MGJ:1923497]
ENSMUSG0000007659	Bcl2l1	1.11	0.00	0.00	-0.09	0.33	1.00	-0.01	0.33	1.00	uncoupling protein 2 (mitochondrial, proton carrier) [Source:MGJ Symbol:Acc:MGJ:109354]
ENSMUSG0000000817	Egr3	1.76	0.00	0.00	-0.32	0.02	0.27	-0.04	0.97	1.00	BCL2-like 1 [Source:MGJ Symbol:Acc:MGJ:88199]
ENSMUSG0000040997	Abhd4	1.21	0.00	0.00	-0.24	0.02	0.26	-0.07	1.00	1.00	F- and WD-40 domain protein 9 [Source:MGJ Symbol:Acc:MGJ:1915878]
ENSMUSG0000069520	Tmem19	0.97	0.00	0.00	0.07	0.42	1.00	-0.15	0.28	1.00	transmembrane protein 19 [Source:MGJ Symbol:Acc:MGJ:1914476]
ENSMUSG0000034457	Eda2r	5.41	0.00	0.00	-0.59	0.03	0.38	0.11	1.00	1.00	ectodysplasin A2 receptor [Source:MGJ Symbol:Acc:MGJ:2442860]
ENSMUSG0000038761	Rps27	1.05	0.00	0.00	-0.02	0.81	1.00	-0.15	0.30	1.00	ribosomal protein S27-like [Source:MGJ Symbol:Acc:MGJ:1915119]
ENSMUSG0000032379	Aldh1a1	2.72	0.00	0.00	-0.23	0.20	1.00	-0.50	0.41	1.00	aldehyde dehydrogenase family 1, subfamily A1 [Source:MGJ Symbol:Acc:MGJ:1353450]
ENSMUSG0000021996	Esd	0.67	0.00	0.00	-0.11	0.06	0.56	0.07	0.46	1.00	esterase Diformylglutathione hydrolase [Source:MGJ Symbol:Acc:MGJ:95421]
ENSMUSG0000057738	Spsa2	0.69	0.00	0.00	-0.10	0.08	0.73	0.06	0.55	1.00	spectrin alpha 2 [Source:MGJ Symbol:Acc:MGJ:98386]
ENSMUSG0000048612	Myf6	1.81	0.00	0.00	-0.48	0.00	0.05	-0.10	0.84	1.00	myofibrin [Source:MGJ Symbol:Acc:MGJ:1919122]
ENSMUSG0000026262	Glip2	0.97	0.00	0.00	-0.11	0.16	1.00	-0.24	0.10	1.00	ferritin light chain 2 [Source:MGJ Symbol:Acc:MGJ:95550]
ENSMUSG0000031088	Glx3	1.13	0.00	0.00	-0.04	0.70	1.00	0.14	0.42	1.00	glutaredoxin 3 [Source:MGJ Symbol:Acc:MGJ:1353653]
ENSMUSG0000067274	Rplp0	0.66	0.00	0.00	-0.16	0.01	0.11	0.02	0.84	1.00	ribosomal protein, large, P0 [Source:MGJ Symbol:Acc:MGJ:1927636]
ENSMUSG0000069083	Gsp1	0.98	0.00	0.00	-0.13	0.16	1.00	-0.06	0.67	1.00	glutathione S-transferase, pi 1 [Source:MGJ Symbol:Acc:MGJ:95865]
ENSMUSG0000017047	Farf2	1.30	0.00	0.00	-0.31	0.01	0.00	-0.05	0.91	1.00	transcription factor, erythroid 2, like 2 [Source:MGJ Symbol:Acc:MGJ:108420]
ENSMUSG0000029700	Slc13a1	0.97	0.00	0.00	0.69	0.00	0.00	-0.02	0.86	1.00	solute carrier family 13 (sodium/sulfate symporter), member 1 [Source:MGJ Symbol:Acc:MGJ:859937]
ENSMUSG0000003026	Comt	0.91	0.00	0.00	0.00	0.99	1.00	-0.11	0.44	1.00	catechol O-methyltransferase [Source:MGJ Symbol:Acc:MGJ:88470]
ENSMUSG0000068744	Parg1	5.35	0.00	0.00	-0.77	0.01	0.17	0.00	1.00	1.00	proline/serine-rich coiled-coil 1 [Source:MGJ Symbol:Acc:MGJ:1913099]
ENSMUSG0000047886	Palm3	1.73	0.00	0.00	-0.20	0.23	1.00	-0.36	0.34	1.00	paralemnin 3 [Source:MGJ Symbol:Acc:MGJ:1925197]
ENSMUSG0000000916	Gm10116	0.97	0.00	0.00	-0.11	0.14	1.00	-0.23	0.84	1.00	predicted gene 10116 [Source:MGJ Symbol:Acc:MGJ:3779109]
ENSMUSG0000027907	S100a11	1.02	0.00	0.00	-0.16	0.10	0.83	0.04	0.84	1.00	S100 calcium binding protein A11 (calgizzarin) [Source:MGJ Symbol:Acc:MGJ:1338798]
ENSMUSG0000030641	463234111Rk	4.88	0.00	0.00	-0.61	0.04	0.42	0.07	1.00	1.00	RIKEN cDNA 463234111 gene [Source:MGJ Symbol:Acc:MGJ:1921291]
ENSMUSG0000000562	Zfp385a	2.99	0.00	0.00	-0.51	0.03	0.39	0.13	1.00	1.00	zinc finger protein 385a [Source:MGJ Symbol:Acc:MGJ:1352465]
ENSMUSG0000000395	Rb73b	1.03	0.00	0.00	-0.08	0.09	0.78	-0.04	0.98	1.00	ribosomal protein S4 [Source:MGJ Symbol:Acc:MGJ:83581]
ENSMUSG0000056542	Gm15500	0.95	0.00	0.00	-0.12	0.19	1.00	-0.26	0.09	1.00	predicted gene 15500 [Source:MGJ Symbol:Acc:MGJ:3831433]
ENSMUSG0000029221	Slc30a9	0.72	0.00	0.00	0.12	0.16	1.00	0.15	0.18	1.00	solute carrier family 30 (zinc transporter), member 9 [Source:MGJ Symbol:Acc:MGJ:1923690]
ENSMUSG0000058135	Gstm1	0.60	0.00	0.00	-0.17	0.01	0.15	0.02	0.88	1.00	glutathione S-transferase, mu 1 [Source:MGJ Symbol:Acc:MGJ:95860]
ENSMUSG0000050708	Fhl1	0.96	0.00	0.00	-0.11	0.10	0.82	-0.22	0.09	1.00	ferritin light chain 1 [Source:MGJ Symbol:Acc:MGJ:95589]
ENSMUSG0000042924	Farf1	2.17	0.00	0.00	-0.31	0.01	0.14	-0.37	0.94	1.00	N-ethylmaleimide sensitive factor 1 [Source:MGJ Symbol:Acc:MGJ:1923141]
ENSMUSG0000024747	Aldh1a7	2.49	0.00	0.00	0.45	0.01	0.18	0.01	1.00	1.00	aldehyde dehydrogenase family 1, subfamily A7 [Source:MGJ Symbol:Acc:MGJ:1347050]
ENSMUSG0000038155	Gsp2	1.01	0.00	0.00	-0.12	0.25	1.00	-0.08	0.68	1.00	glutathione S-transferase, pi 2 [Source:MGJ Symbol:Acc:MGJ:95864]
ENSMUSG0000058216	BC021614	5.39	0.00	0.00	-0.72	0.04	0.40	-0.03	1.00	1.00	cDNA sequence BC021614 [Source:MGJ Symbol:Acc:MGJ:2380578]
ENSMUSG0000000588	Ucp1	1.23	0.00	0.00	-0.58	0.01	0.72	-0.04	0.93	1.00	uncoupling protein 1 [Source:MGJ Symbol:Acc:MGJ:98242]
ENSMUSG0000026956	Uplg11	0.92	0.00	0.00	0.00	0.98	1.00	-0.30	0.06	1.00	UDP-N-ethylglucosamine pyrophosphorylase-like 1 [Source:MGJ Symbol:Acc:MGJ:2443318]
ENSMUSG0000095159	TUBB5	1.14	0.00	0.00	-0.28	0.03	0.33	-0.15	0.50	1.00	Uncharacterized protein [Source:UniProtKB/TrEMBL:Acc:J3QNR5]
ENSMUSG0000044313	Mab213	3.54	0.00	0.00	-0.42	0.14	0.99	-0.08	1.00	1.00	mal-21-like 3 (C. elegans) [Source:MGJ Symbol:Acc:MGJ:2446273]
ENSMUSG0000033039	Mical1	1.08	0.00	0.00	-0.34	0.00	0.09	-0.01	1.00	1.00	microtubule associated monoglycane, capronin and LIM domain containing-like 1 [Source:MGJ Symbol:Acc:MGJ:105870]
ENSMUSG0000000173	Fat2	1.68	0.00	0.00	-0.02	0.91	1.00	-0.04	0.91	1.00	metallothionein 2 [Source:MGJ Symbol:Acc:MGJ:97172]
ENSMUSG0000076036	AC151602.1	0.92	0.00	0.00	-0.08	0.24	1.00	-0.20	0.17	1.00	0.17 1.00 0
ENSMUSG0000032786	Alas1	0.89	0.00	0.00	-0.23	0.02	0.30	0.11	0.55	1.00	aminolevulinic acid synthase 1 [Source:MGJ Symbol:Acc:MGJ:87989]
ENSMUSG0000021466	Pfp2	1.69	0.00	0.00	0.29	0.08	0.72	-0.20	0.64	1.00	fructose biphosphatase 2 [Source:MGJ Symbol:Acc:MGJ:95491]
ENSMUSG0000000893	Gm373b	0.63	0.00	0.00	-0.18	0.01	0.16	-0.01	0.62	1.00	predicted gene 373b [Source:MGJ Symbol:Acc:MGJ:3644565]
ENSMUSG0000041936	Agrn	0.64	0.00	0.00	-0.20	0.00	0.08	-0.15	0.20	1.00	agrin [Source:MGJ Symbol:Acc:MGJ:87961]
ENSMUSG0000017404	Rpl19	0.59	0.00	0.00	-0.04	0.54	1.00	0.04	0.70	1.00	ribosomal protein L19 [Source:MGJ Symbol:Acc:MGJ:98020]
ENSMUSG0000035443	Thy1	1.53	0.00	0.00	-0.33	0.06	0.58	-0.02	1.00	1.00	thymocyte nuclear protein 1 [Source:MGJ Symbol:Acc:MGJ:1925112]
ENSMUSG0000046819	Ddnl4	1.85	0.00	0.00	-0.54	0.01	0.13	-0.08	0.89	1.00	DNA-damage-inducible transcript 4-like [Source:MGJ Symbol:Acc:MGJ:1920534]
ENSMUSG0000000812	CCND3	1.29	0.00	0.00	-0.32	0.20	1.00	-0.23	0.74	1.00	cyclin D3 [Source:MGJ Symbol:Acc:MGJ:8411838]
ENSMUSG0000062191	Plim1	2.38	0.00	0.00	-0.65	0.01	0.16	0.24	0.86	1.00	filamin binding LIM protein 1 [Source:MGJ Symbol:Acc:MGJ:1921452]
ENSMUSG0000037573	Tob1	0.84	0.00	0.00	-0.20	0.05	0.49	0.19	0.19	1.00	transducer of ErbB-2-1 [Source:MGJ Symbol:Acc:MGJ:1349721]
ENSMUSG0000041733	Enc1	2.35	0.00	0.00	-0.72	0.00	0.07	-0.31	0.85	1.00	ectodermal-neural crest 1 [Source:MGJ Symbol:Acc:MGJ:1096110]
ENSMUSG0000020373	Crbp21	0.52	0.00	0.00	-0.15	0.01	0.15	-0.02	0.88	1.00	quanine nucleotide binding protein (G protein), beta polypeptide 2 like 1 [Source:MGJ Symbol:Acc:MGJ:101849]
ENSMUSG0000097204	CCND3O94.1	1.05	0.00	0.00	-0.38	0.00	0.08	-0.07	0.80	1.00	0.80 1.00 0
ENSMUSG0000015714	Lass2	0.62	0.00	0.00	-0.22	0.00	0.07	0.06	0.59	1.00	LAG1 homolog, ceramide synthase 2 [Source:MGJ Symbol:Acc:MGJ:1924143]
ENSMUSG0000031827	Cott1	0.78	0.00	0.00	0.17	0.06	0.58	0.07	0.62	1.00	coactosin-like 1 (Dictyostelium) [Source:MGJ Symbol:Acc:MGJ:1919222]
ENSMUSG0000066072	Cyp41a10	1.29	0.00	0.00	-0.18	0.25	1.00	-0.30	0.02	1.00	cytochrome P450, family 4, subfamily A, polypeptide 10 [Source:MGJ Symbol:Acc:MGJ:88611]
ENSMUSG0000030918	Cmi2	1.01	0.00	0.00	-0.62	0.00	0.06	-0.21	0.72	1.00	hydroxymethylglutaryl-CoA lyase 2 [Source:MGJ Symbol:Acc:MGJ:95418]
ENSMUSG0000024048	Mf12a	0.77	0.00	0.00	-0.26	0.01	0.10	0.07	0.68	1.00	myosin, light chain 12A, regulator, non-sarcomeric [Source:MGJ Symbol:Acc:MGJ:1914518]
ENSMUSG00000331479	Vps36	1.06	0.00	0.00	-0.11	0.40	1.00	0.15	0.44	1.00	vacuolar protein sorting 36 (yeast) [Source:MGJ Symbol:Acc:MGJ:1917410]
ENSMUSG0000027423	Srs5	0.73	0.00	0.00	-0.21	0.02	0.29	0.02	0.91	1.00	sorting nexin 5 [Source:MGJ Symbol:Acc:MGJ:1916428]
ENSMUSG0000041989	Gm4	1.71	0.00	0.00	-0.62	0.00	0.06	-0.21	0.72	1.00	homolog gene family, member D [Source:MGJ Symbol:Acc:MGJ:108446]
ENSMUSG0000029470	P2wa	1.08	0.00	0.00	-0.35	0.01	0.15	-0.10	0.68	1.00	putative receptor P2X, ligand-gated ion channel 4 [Source:MGJ Symbol:Acc:MGJ:1338859]
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ENSMUSG00000022003	Slc25a30	0.94	0.00	0.00	-0.06	0.74	1.00	-0.07	0.83	1.00	solute carrier family 25, member 30 [Source:MGI Symbol:Acc:MGI:1914804]
ENSMUSG0000001416	Ccd3	0.61	0.00	0.00	-0.26	0.11	0.11	0.07	0.63	1.00	chaperonin containing Top1, subunit 3 (gamma) [Source:MGI Symbol:Acc:MGI:104708]
ENSMUSG0000003573	Grp94	1.26	0.00	0.00	-0.42	0.03	0.36	0.03	0.90	1.00	homer homolog 3 (Drosophila) [Source:MGI Symbol:Acc:MGI:1347259]
ENSMUSG00000038495	Oud7b	0.81	0.00	0.00	-0.38	0.00	0.06	0.09	0.67	1.00	OTU domain containing TB1 [Source:MGI Symbol:Acc:MGI:2654703]
ENSMUSG00000012405	Rpl15	0.49	0.00	0.00	-0.05	0.47	1.00	0.08	0.48	1.00	ribosomal protein L15 [Source:MGI Symbol:Acc:MGI:1913730]
ENSMUSG00000022247	Bnx1	1.06	0.00	0.00	-0.36	0.04	0.40	0.08	0.80	1.00	BRX1, biogenesis of ribosomes, homolog (S. cerevisiae) [Source:MGI Symbol:Acc:MGI:1915082]
ENSMUSG00000036936	Plnm2	0.42	0.00	0.00	0.00	0.98	1.00	-0.01	0.95	1.00	plein 82 [Source:MGI Symbol:Acc:MGI:2154259]
ENSMUSG00000032845	Gm6459	0.82	0.00	0.00	-0.30	0.00	0.07	-0.20	0.16	0.00	predominant gene 20459 [Source:MGI Symbol:Acc:MGI:1514924]
ENSMUSG00000028542	Slc6a9	1.19	0.00	0.00	0.02	0.95	1.00	-0.09	0.48	1.00	kinase (PRK4) anchor protein 2 [Source:MGI Symbol:Acc:MGI:1306795]
ENSMUSG00000031652	M4bp1	0.95	0.00	0.00	-0.26	0.10	0.79	0.02	1.00	1.00	NEDD4 binding protein 1 [Source:MGI Symbol:Acc:MGI:2136825]
ENSMUSG00000021178	Pfam1	0.63	0.00	0.00	-0.28	0.01	0.10	0.09	0.53	1.00	protease (prosome, macropan) 26S subunit, ATPase 1 [Source:MGI Symbol:Acc:MGI:106054]
ENSMUSG00000030945	Gm6459	0.82	0.00	0.00	-0.30	0.00	0.07	-0.20	0.16	0.00	predominant gene 20459 [Source:MGI Symbol:Acc:MGI:1514924]
ENSMUSG00000025511	Tgpa4	0.90	0.00	0.00	-0.32	0.02	0.31	0.15	0.48	1.00	tetrapsin 4 [Source:MGI Symbol:Acc:MGI:1928077]
ENSMUSG00000061167	Rpl15-ps3	0.58	0.00	0.00	-0.07	0.44	1.00	0.07	0.59	1.00	ribosomal protein L15, pseudogene 3 [Source:MGI Symbol:Acc:MGI:3782952]
ENSMUSG00000060032	H2afj	0.80	0.00	0.00	-0.29	0.02	0.29	0.06	0.79	1.00	H2A histone family, member J [Source:MGI Symbol:Acc:MGI:3606192]
ENSMUSG000000091477	Gm5799	3.15	0.00	0.00	-1.04	0.01	0.15	0.14	1.00	1.00	predicted gene 5799 [Source:MGI Symbol:Acc:MGI:3646715]
ENSMUSG00000000793	Cpfl1	2.92	0.00	0.00	-0.77	0.04	0.40	-0.17	1.00	1.00	carboxy-terminal tailless 1c [Source:MGI Symbol:Acc:MGI:2446526]
ENSMUSG00000017615	Traf1ap1	0.82	0.00	0.00	-0.30	0.02	0.31	0.02	0.95	1.00	tumor necrosis factor, alpha-induced protein 1 (endothelial) [Source:MGI Symbol:Acc:MGI:104961]
ENSMUSG000000071657	Bscl2	0.86	0.00	0.00	-0.03	0.83	1.00	-0.08	0.75	1.00	Bernardini-Seip congenital lipodystrophy 2 homolog (human) [Source:MGI Symbol:Acc:MGI:1298392]
ENSMUSG00000028788	Pdgfra	0.60	0.00	0.00	-0.26	0.11	0.11	0.03	0.86	1.00	protein tyrosine phosphatase 4a2 [Source:MGI Symbol:Acc:MGI:1277117]
ENSMUSG0000003332	Hsp26	0.75	0.00	0.00	-0.36	0.00	0.07	0.02	0.92	1.00	B cell transition gene 1, anti-proliferative [Source:MGI Symbol:Acc:MGI:38215]
ENSMUSG00000033446	Hsp6	1.22	0.00	0.00	-0.53	0.01	0.12	0.11	0.77	1.00	lysophosphatidic acid receptor 6 [Source:MGI Symbol:Acc:MGI:1914418]
ENSMUSG00000066687	Zbtb16	2.60	0.00	0.00	0.61	0.03	0.38	-0.15	1.00	1.00	zinc finger and BTB domain containing 16 [Source:MGI Symbol:Acc:MGI:103222]
ENSMUSG000000078377	Gm4294	0.59	0.00	0.00	-0.07	0.42	1.00	0.07	0.58	1.00	predicted gene 4294 [Source:MGI Symbol:Acc:MGI:3782472]
ENSMUSG000000085587	Gm14493	1.62	0.00	0.00	-0.59	0.02	0.25	-0.07	1.00	1.00	predicted gene 14493 [Source:MGI Symbol:Acc:MGI:370531]
ENSMUSG00000000251	Gm4294	0.59	0.00	0.00	-0.07	0.42	1.00	0.07	0.58	1.00	predicted gene 4294 [Source:MGI Symbol:Acc:MGI:3782472]
ENSMUSG000000028051	Hox3	1.71	0.00	0.00	-0.62	0.02	0.28	0.10	1.00	1.00	receptor accessory protein 6 [Source:MGI Symbol:Acc:MGI:1926483]
ENSMUSG00000030695	Aldoa	0.34	0.00	0.00	0.00	0.95	1.00	-0.11	0.17	1.00	hyperpolarization-activated, cyclic nucleotide-gated K+ 3 [Source:MGI Symbol:Acc:MGI:1298211]
ENSMUSG00000026968	Dpp7	0.74	0.00	0.00	-0.21	0.08	0.68	-0.20	0.24	1.00	dipeptidylpeptidase 7 [Source:MGI Symbol:Acc:MGI:1933213]
ENSMUSG0000003332	Hsp26	0.75	0.00	0.00	-0.36	0.00	0.07	0.02	0.92	1.00	B cell transition gene 1, anti-proliferative [Source:MGI Symbol:Acc:MGI:38215]
ENSMUSG00000046761	Fam83h	0.99	0.00	0.00	-0.49	0.00	0.07	-0.13	0.68	1.00	family with sequence similarity 83, member H [Source:MGI Symbol:Acc:MGI:2145900]
ENSMUSG00000028333	Anp32b	0.79	0.00	0.00	-0.32	0.02	0.22	0.25	1.15	1.00	acid leucine-rich nuclear phosphoprotein 32 family, member B [Source:MGI Symbol:Acc:MGI:1914878]
ENSMUSG00000040761	Spn	0.77	0.00	0.00	-0.38	0.00	0.07	0.08	0.70	1.00	SPEN homolog, transcriptional regulator (Drosophila) [Source:MGI Symbol:Acc:MGI:1891706]
ENSMUSG000000081894	Rps2-ps13	0.48	0.00	0.00	0.02	0.68	1.00	0.16	0.12	1.00	ribosomal protein S2, pseudogene 13 [Source:MGI Symbol:Acc:MGI:3705640]
ENSMUSG00000021478	Hsp4	0.79	0.00	0.00	-0.27	0.04	0.48	-0.20	0.61	1.00	hyaluronic acid binding protein 2 [Source:MGI Symbol:Acc:MGI:1891713]
ENSMUSG00000036026	Tmem63b	0.73	0.00	0.00	-0.12	0.31	1.00	0.02	0.92	1.00	transmembrane protein 63b [Source:MGI Symbol:Acc:MGI:2387609]
ENSMUSG000000097906	RP23-463F7.8	0.66	0.00	0.00	-0.18	0.10	0.83	0.01	1.00	1.00	0.00
ENSMUSG000000061801	Slc35e3	0.74	0.00	0.00	-0.18	0.15	1.00	0.01	1.00	1.00	solute carrier family 35, member E3 [Source:MGI Symbol:Acc:MGI:2448489]
ENSMUSG000000022533	Rps3a3	0.91	0.00	0.00	-0.25	0.01	0.11	0.16	0.20	1.00	ATPase type 13A3 [Source:MGI Symbol:Acc:MGI:3685307]
ENSMUSG00000003504	Reep3	0.91	0.00	0.00	0.01	0.96	1.00	0.01	0.94	1.00	receptor accessory protein 6 [Source:MGI Symbol:Acc:MGI:1917855]
ENSMUSG00000026205	Slc23a3	1.12	0.00	0.00	-0.28	0.14	1.00	-0.22	0.50	1.00	solute carrier family 23 (nucleoside transporters), member 3 [Source:MGI Symbol:Acc:MGI:1045161]
ENSMUSG00000030120	Mi2	0.53	0.00	0.00	-0.15	0.08	0.71	0.11	0.33	1.00	myeloid leukemia factor 2 [Source:MGI Symbol:Acc:MGI:1353554]
ENSMUSG00000017009	Sdc4	0.47	0.00	0.00	-0.22	0.01	0.15	-0.03	0.76	1.00	syndecan 4 [Source:MGI Symbol:Acc:MGI:194164]
ENSMUSG000000004394	Hsp4	1.17	0.00	0.00	-0.27	0.04	0.48	-0.20	0.61	1.00	hyaluronic acid binding protein 2 [Source:MGI Symbol:Acc:MGI:1919638]
ENSMUSG00000037706	Hsp4	0.43	0.00	0.00	0.03	0.63	1.00	-0.10	0.41	1.00	CD81 antigen [Source:MGI Symbol:Acc:MGI:1906398]
ENSMUSG00000038976	Ppp1r9b	0.87	0.00	0.00	-0.28	0.05	0.55	-0.01	1.00	1.00	protein phosphatase 1, regulatory subunit 9B [Source:MGI Symbol:Acc:MGI:2387581]
ENSMUSG00000060373	Hmrcp	0.62	0.00	0.00	-0.20	0.06	0.55	0.04	0.78	1.00	heterogeneous nuclear ribonucleoprotein C [Source:MGI Symbol:Acc:MGI:107795]
ENSMUSG00000000209	Hsp90	1.04	0.00	0.00	-0.30	0.10	0.11	0.16	0.93	1.00	interferon gamma receptor 1 [Source:MGI Symbol:Acc:MGI:107655]
ENSMUSG00000033616	Mocos	1.25	0.00	0.00	-0.50	0.02	0.26	0.01	1.00	1.00	molybdenum cofactor sulfatase [Source:MGI Symbol:Acc:MGI:1915841]
ENSMUSG00000020898	Ctcf	1.09	0.00	0.00	-0.26	0.16	1.00	-0.08	0.85	1.00	CTS telomere maintenance complex component 1 [Source:MGI Symbol:Acc:MGI:1916214]
ENSMUSG00000005973	Rcn1	1.37	0.00	0.00	-0.36	0.11	0.88	0.06	0.90	1.00	reticulocalbin 1 [Source:MGI Symbol:Acc:MGI:104559]
ENSMUSG00000022234	Ctcs	0.55	0.00	0.00	-0.24	0.01	0.17	0.06	0.65	1.00	interferon containing Top1, subunit 5 (epsilon) [Source:MGI Symbol:Acc:MGI:107185]
ENSMUSG0000003332	Hsp26	0.75	0.00	0.00	-0.36	0.00	0.07	0.02	0.92	1.00	B cell transition gene 1, anti-proliferative [Source:MGI Symbol:Acc:MGI:38215]
ENSMUSG00000025735	Rhd1d1	1.45	0.00	0.00	-0.02	1.00	1.00	-0.20	0.68	1.00	rhomboid, ventral-like 1 (Drosophila) [Source:MGI Symbol:Acc:MGI:2384991]
ENSMUSG00000041957	Pkp2	1.00	0.00	0.00	-0.49	0.01	0.11	0.10	0.74	1.00	plakophilin 2 [Source:MGI Symbol:Acc:MGI:1914701]
ENSMUSG00000024436	Mps18b	0.85	0.00	0.00	-0.27	0.07	0.65	0.07	0.79	1.00	mitochondrial ribosomal protein S18B [Source:MGI Symbol:Acc:MGI:1914223]
ENSMUSG00000000340	Hsp4	1.12	0.00	0.00	-0.34	0.02	0.24	-0.15	0.62	1.00	hyaluronic acid binding protein 2 [Source:MGI Symbol:Acc:MGI:1891713]
ENSMUSG00000021133	4933426M11Rk	0.55	0.00	0.00	0.01	0.88	1.00	0.02	0.92	1.00	RIKEN cDNA 4933426M11 [Source:MGI Symbol:Acc:MGI:2444661]
ENSMUSG00000028762	Gm12366	0.50	0.00	0.00	0.02	0.79	1.00	0.17	0.14	1.00	predicted gene 12366 [Source:MGI Symbol:Acc:MGI:3649577]
ENSMUSG000000080242	Gm15487	0.47	0.00	0.00	-0.09	0.19	1.00	-0.08	0.42	1.00	predicted gene 15487 [Source:MGI Symbol:Acc:MGI:3709610]
ENSMUSG00000030591	Pam8b	0.60	0.00	0.00	-0.16	0.13	0.96	0.07	0.64	1.00	proteasome (prosome, macropan) 26S subunit, non-ATPase, 8 [Source:MGI Symbol:Acc:MGI:1888669]
ENSMUSG0000003332	Hsp26	0.75	0.00	0.00	-0.36	0.00	0.07	0.02	0.92	1.00	B cell transition gene 1, anti-proliferative [Source:MGI Symbol:Acc:MGI:38215]
ENSMUSG00000057262	Gm10020	0.59	0.00	0.00	-0.07	0.49	1.00	0.07	0.62	1.00	predicted pseudogene 10020 [Source:MGI Symbol:Acc:MGI:3642192]
ENSMUSG00000022351	Gz1	0.96	0.00	0.00	-0.45	0.01	0.14	0.24	0.31	1.00	squalene epoxidase [Source:MGI Symbol:Acc:MGI:109296]
ENSMUSG00000026588	Sphe2	0.96	0.00	0.00	-0.50	0.00	0.06	0.07	0.81	1.00	general transcription factor IIF, polypeptide 1 [Source:MGI Symbol:Acc:MGI:1923848]
ENSMUSG00000024121	Atp9b2c	0.46	0.00	0.00	-0.10	0.15	1.00	-0.09	0.35	1.00	ATPase, H+ transporting, lysosomal V0 subunit C [Source:MGI Symbol:Acc:MGI:88116]
ENSMUSG00000017002	ALP18Rk	0.46	0.00	0.00	-0.11	0.08	0.69	0.31	0.20	1.00	RIKEN cDNA 17002M18Rk [Source:MGI Symbol:Acc:MGI:285466]
ENSMUSG00000021213	Akr1c13	1.11	0.00	0.00	-0.27	0.16	1.00	-0.45	0.41	1.00	aldo-keto reductase family 1, member C13 [Source:MGI Symbol:Acc:MGI:1351621]
ENSMUSG00000028668	Teeb3	0.90	0.00	0.00	-0.41	0.01	0.19	0.03	0.94	1.00	transcription elongation factor B (SII), polypeptide 3 [Source:MGI Symbol:Acc:MGI:1351315]
ENSMUSG00000044533	Rps2	0.46	0.00	0.00	0.01	0.91	1.00	0.15	0.14	1.00	ribosomal protein S2 [Source:MGI Symbol:Acc:MGI:105110]
ENSMUSG0000003332	Hsp26	0.75	0.00	0.00	-0.36	0.00	0.07	0.02	0.92	1.00	B cell transition gene 1, anti-proliferative [Source:MGI Symbol:Acc:MGI:38215]
ENSMUSG00000031537	Hkbb	0.66	0.00	0.00	-0.28	0.02	0.22	0.00	1.00	1.00	inhibitor of kappaB kinase beta [Source:MGI Symbol:Acc:MGI:1338071]
ENSMUSG00000070392	Gm20634	0.87	0.00	0.00	-0.45	0.01	0.10	-0.07	0.82	1.00	predicted gene 20634 [Source:MGI Symbol:Acc:MGI:5313081]
ENSMUSG00000060676	Ef3b	0.57	0.00	0.00	-0.24	0.02	0.22	0.08	0.17	1.00	eukaryotic translation initiation factor 3, subunit B [Source:MGI Symbol:Acc:MGI:106478]
ENSMUSG00000072789	Gm14920	0.46	0.00	0.00	0.02	0.77	1.00	0.16	0.55	1.00	predicted gene 14920 [Source:MGI Symbol:Acc:MGI:3704275]
ENSMUSG00000073787	Hsp90	0.99	0.00	0.00	-0.33	0.07	0.62	-0.03	0.20	1.00	expressed sequence A150787 [Source:MGI Symbol:Acc:MGI:403323]
ENSMUSG00000025287	Rcp1	0.81	0.00	0.00	-0.04	0.79	1.00	0.48	0.01	1.00	acyl-CoA thioesterase 9 [Source:MGI Symbol:Acc:MGI:1928939]
ENSMUSG00000031432	Pp2r1	0.96	0.00	0.00	-0.45	0.01	0.18	0.01	1.00	1.00	phosphoryl pyrophosphate synthetase 1 [Source:MGI Symbol:Acc:MGI:97775]
ENSMUSG00000046326	Swai1	1.85	0.00	0.00	-0.21	0.45	1.00	-0.11	0.15	1.00	SIVA1, apoptosis-inducing factor [Source:MGI Symbol:Acc:MGI:1353606]
ENSMUSG00000030149	Hsp90	0.99	0.00	0.00	-0.02	0.79	1.00	0.18	0.21	1.00	family with sequence similarity 83, member G [Source:MGI Symbol:Acc:MGI:3644725]
ENSMUSG00000040952	Rps19	0.51	0.00	0.00	-0.02	0.80	1.00	0.00	1.00	1.00	ribosomal protein S19 [Source:MGI Symbol:Acc:MGI:1333790]
ENSMUSG00000027333	Smox	1.96	0.00	0.00	-0.91	0.01	0.10	0.21	0.85	1.00	spermine oxidase [Source:MGI Symbol:Acc:MGI:2445356]
ENSMUSG00000006538	Ihh	1.20	0.00	0.00	-0.15	0.50	1.00	-0.05	0.91	1.00	Indian hedgehog [Source:MGI Symbol:Acc:MGI:96533]
ENSMUSG0000003332	Hsp26	0.75	0.00	0.00	-0.36	0.00	0.07	0.02	0.92	1.00	interferon-gamma-activated protein kinase kinase 13 [Source:MGI Symbol:Acc:MGI:2444243]
ENSMUSG00000032504	Pcdh9p	0.49	0.00	0.00	-0.14	0.1					

ENSMUSG00000001313	Rnd2	1.32	0.00	0.00	-0.60	0.02	0.25	-0.06	1.00	1.00	Rho family GTPase 2 [Source:MGI Symbol;Acc:MGI:1338755]
ENSMUSG000000097142	AC102815.1	0.87	0.00	0.00	-0.08	0.66	0.00	0.00	1.00	1.00	0
ENSMUSG000000048107	H12	0.87	0.00	0.00	-0.08	0.66	0.00	0.00	1.00	1.00	potassium channel tetramerisation domain containing 12 [Source:MGI Symbol;Acc:MGI:2145823]
ENSMUSG00000016554	Ef3d	0.62	0.00	0.00	-0.37	0.00	0.05	0.01	1.00	1.00	eukaryotic translation initiation factor 3, subunit D [Source:MGI Symbol;Acc:MGI:1933181]
ENSMUSG000000081205	Gm5940	0.52	0.00	0.00	-0.12	0.23	0.10	0.02	0.91	1.00	predicted gene 5940 [Source:MGI Symbol;Acc:MGI:3648847]
ENSMUSG000000095567	Nacc2	0.74	0.00	0.00	-0.45	0.00	0.05	-0.09	0.65	1.00	nucleolar complex associated 2 homolog (S. cerevisiae) [Source:MGI Symbol;Acc:MGI:1931051]
ENSMUSG000000024608	Rps14	0.46	0.00	0.00	-0.08	0.34	0.10	0.02	0.93	1.00	ribosomal protein S14 [Source:MGI Symbol;Acc:MGI:98107]
ENSMUSG000000002622	Upk3	0.46	0.00	0.00	-0.07	0.44	0.10	0.00	0.95	1.00	cytoskeletal transition initiation factor 3, subunit C [Source:MGI Symbol;Acc:MGI:1929866]
ENSMUSG00000014349	Ube2z	0.62	0.00	0.00	-0.35	0.00	0.07	0.05	0.81	1.00	ubiquitin-conjugating enzyme E2Z (putative) [Source:MGI Symbol;Acc:MGI:1343160]
ENSMUSG000000025967	Eef1b2	0.44	0.00	0.00	-0.08	0.34	0.10	0.09	0.47	1.00	eukaryotic translation elongation factor 1 beta 2 [Source:MGI Symbol;Acc:MGI:1929520]
ENSMUSG000000031578	Mak16	1.08	0.00	0.00	-0.56	0.01	0.16	0.11	0.76	1.00	MAK16 homolog (S. cerevisiae) [Source:MGI Symbol;Acc:MGI:1915170]
ENSMUSG000000003622	Upk2	0.63	0.00	0.00	-0.23	0.07	0.05	0.06	0.77	1.00	impartin 5 [Source:MGI Symbol;Acc:MGI:1917822]
ENSMUSG000000031149	Praf2	1.50	0.00	0.00	-0.50	0.08	0.69	-0.11	1.00	1.00	FR1 domain family 2 [Source:MGI Symbol;Acc:MGI:1856607]
ENSMUSG0000000016256	Csz2	0.48	0.00	0.00	-0.08	0.40	0.10	-0.10	0.43	1.00	cathepsin Z [Source:MGI Symbol;Acc:MGI:1891190]
ENSMUSG000000027422	Rrbp1	0.49	0.00	0.00	-0.21	0.03	0.34	0.07	0.58	1.00	ribosome binding protein 1 [Source:MGI Symbol;Acc:MGI:1932395]
ENSMUSG000000029364	Gm1	0.48	0.00	0.00	-0.18	0.06	0.56	0.07	0.62	1.00	guanine nucleotide binding protein (G protein), beta 1 [Source:MGI Symbol;Acc:MGI:95781]
ENSMUSG000000009516	Gm111974	2.43	0.00	0.00	-0.24	0.48	0.10	0.27	0.79	1.00	predicted gene 111974 [Source:MGI Symbol;Acc:MGI:3650059]
ENSMUSG000000021222	Deaf4	1.60	0.00	0.00	-0.11	0.71	0.10	-0.18	0.86	1.00	DDB1 and CUL4 associated factor 4 [Source:MGI Symbol;Acc:MGI:1921078]
ENSMUSG000000085042	2010001M06Rk	1.85	0.00	0.00	0.45	0.12	0.92	0.24	0.85	1.00	RIKEN cDNA 2010001M06 gene [Source:MGI Symbol;Acc:MGI:1917062]
ENSMUSG000000090544	Gm6576	0.47	0.00	0.00	0.03	0.70	0.10	0.20	0.11	1.00	predicted gene 6576 [Source:MGI Symbol;Acc:MGI:3646644]
ENSMUSG000000002811	Sarnc3	0.31	0.00	0.00	0.00	0.96	0.10	0.10	0.24	1.00	serine incorporator 3 [Source:MGI Symbol;Acc:MGI:1349457]
ENSMUSG000000001665	Gat33	0.65	0.00	0.00	0.01	0.97	0.10	-0.23	0.19	1.00	glutathione S-transferase, theta 3 [Source:MGI Symbol;Acc:MGI:2143526]
ENSMUSG000000081094	Rpl19-ps11	0.56	0.00	0.00	-0.06	0.60	0.10	0.04	0.83	1.00	ribosomal protein L19, pseudogene 11 [Source:MGI Symbol;Acc:MGI:3642193]
ENSMUSG000000024583	Tm11	0.57	0.00	0.00	-0.29	0.01	0.17	0.05	0.76	1.00	thioredoxin-like 1 [Source:MGI Symbol;Acc:MGI:1860078]
ENSMUSG000000028495	Rps6	0.39	0.00	0.00	-0.12	0.06	0.61	0.04	0.69	1.00	ribosomal protein S6 [Source:MGI Symbol;Acc:MGI:98159]
ENSMUSG000000002420	Hist2ha2	0.48	0.00	0.00	-0.07	0.48	0.10	0.05	0.97	1.00	NSL1 (p97) cofactor (p47) [Source:MGI Symbol;Acc:MGI:3042273]
ENSMUSG000000034930	Rtkn	0.88	0.00	0.00	-0.08	0.68	0.10	0.05	0.93	1.00	rheikin [Source:MGI Symbol;Acc:MGI:107371]
ENSMUSG000000085006	BC021767	1.70	0.00	0.00	-0.75	0.02	0.29	-0.11	1.00	1.00	cDNA sequence BC021767 [Source:MGI Symbol;Acc:MGI:3615512]
ENSMUSG000000020308	Cry1	2.49	0.00	0.00	-0.90	0.04	0.41	0.94	0.30	1.00	cryptochrome 1 (photolyase-like) [Source:MGI Symbol;Acc:MGI:1270841]
ENSMUSG000000016526	Dykc3	2.48	0.00	0.00	-1.12	0.02	0.22	-0.11	0.97	1.00	phosphotyrosine tyrosine (1-phosphorylation) regulated kinase 3 [Source:MGI Symbol;Acc:MGI:1330300]
ENSMUSG000000032369	Pisp1	0.68	0.00	0.00	-0.35	0.01	0.17	-0.10	0.59	1.00	phospholipid scramblase 1 [Source:MGI Symbol;Acc:MGI:893575]
ENSMUSG000000006974	Psm3	0.55	0.00	0.00	-0.16	0.17	0.10	0.02	0.97	1.00	proteasome (prosome, macropain) subunit, beta type 3 [Source:MGI Symbol;Acc:MGI:1347014]
ENSMUSG000000037440	Vrn1	0.74	0.00	0.00	0.48	0.00	0.01	-0.21	0.29	1.00	vanin 1 [Source:MGI Symbol;Acc:MGI:108395]
ENSMUSG000000079709	9030025P20Rk	0.67	0.00	0.00	-0.23	0.08	0.73	-0.06	0.77	1.00	RIKEN cDNA 9030025P20 gene [Source:MGI Symbol;Acc:MGI:3583895]
ENSMUSG000000004620	Hist2ha2	0.79	0.00	0.00	-0.07	0.48	0.10	0.05	0.74	1.00	histone cluster 2, H2aa2 [Source:MGI Symbol;Acc:MGI:2448283]
ENSMUSG000000019590	Cy5b61	0.75	0.00	0.00	-0.19	0.23	0.10	0.08	0.77	1.00	cytochrome b-561 [Source:MGI Symbol;Acc:MGI:103253]
ENSMUSG000000022462	Slc38a2	0.60	0.00	0.00	-0.37	0.00	0.05	0.19	0.30	1.00	solute carrier family 38, member 2 [Source:MGI Symbol;Acc:MGI:1915010]
ENSMUSG000000037331	Larp1	0.50	0.00	0.00	-0.21	0.04	0.45	0.05	0.70	1.00	La ribonucleoprotein domain family, member 1 [Source:MGI Symbol;Acc:MGI:1890165]
ENSMUSG000000033029	170008B04Rk	0.87	0.00	0.00	-0.25	0.21	0.10	-0.02	0.40	1.00	RIKEN cDNA 170008B04 gene [Source:MGI Symbol;Acc:MGI:1920774]
ENSMUSG000000042989	Kar3	0.89	0.00	0.00	-0.40	0.01	0.19	-0.17	0.53	1.00	KN motif and ankyrin repeat domains 3 [Source:MGI Symbol;Acc:MGI:1098615]
ENSMUSG000000063954	Hist2h2aa1	0.85	0.00	0.00	-0.40	0.02	0.30	-0.10	0.74	1.00	histone cluster 2, H2aa1 [Source:MGI Symbol;Acc:MGI:96097]
ENSMUSG000000002319	Ipo4	0.56	0.00	0.00	-0.26	0.03	0.33	0.02	0.93	1.00	importin 4 [Source:MGI Symbol;Acc:MGI:1923001]
ENSMUSG000000006547	Rps2-ps6	0.48	0.00	0.00	0.02	0.83	0.10	0.17	0.18	1.00	ribosomal protein S2, pseudogene 6 [Source:MGI Symbol;Acc:MGI:3644876]
ENSMUSG000000002820	Rps2-ps6	0.48	0.00	0.00	-0.12	0.04	0.45	-0.07	0.61	1.00	heterogeneous nuclear ribonucleoprotein M [Source:MGI Symbol;Acc:MGI:1926465]
ENSMUSG000000002708	Psm5-c5	0.55	0.00	0.00	-0.19	0.10	0.81	0.07	0.68	1.00	protease (prosome, macropain) 26S subunit, ATPase 5 [Source:MGI Symbol;Acc:MGI:105047]
ENSMUSG000000030744	Rps3	0.34	0.00	0.00	-0.05	0.40	0.10	-0.04	0.70	1.00	ribosomal protein S3 [Source:MGI Symbol;Acc:MGI:1350917]
ENSMUSG000000065862	SNORA67	1.01	0.00	0.00	-0.61	0.00	0.09	0.12	0.77	1.00	Small nuclear RNA SNORA67 [Source:RFAM;Acc:RF00272]
ENSMUSG000000002633	Irrm1	0.57	0.00	0.00	-0.19	0.10	0.10	-0.10	0.52	1.00	inositol polyphosphate kinase [Source:MGI Symbol;Acc:MGI:1916968]
ENSMUSG000000070462	Mesd1	1.33	0.00	0.00	-0.63	0.02	0.27	-0.01	1.00	1.00	mesoderm development candidate 1 [Source:MGI Symbol;Acc:MGI:1891420]
ENSMUSG0000000040734	Ppp1131	1.81	0.00	0.00	-0.82	0.02	0.27	-0.06	1.00	1.00	protein phosphatase 1, regulatory (inhibitor) subunit 13 like [Source:MGI Symbol;Acc:MGI:3525053]
ENSMUSG0000000032577	Mapkap3	1.54	0.00	0.00	-0.28	0.34	0.10	-0.07	1.00	1.00	mitogen-activated protein kinase-activated protein kinase 3 [Source:MGI Symbol;Acc:MGI:2143163]
ENSMUSG00000004037	Als2c1	0.72	0.00	0.00	-0.35	0.02	0.25	-0.22	0.28	1.00	ALS2 C-terminal like [Source:MGI Symbol;Acc:MGI:2447523]
ENSMUSG000000002820	Rps2-ps6	0.48	0.00	0.00	-0.12	0.04	0.45	-0.07	0.51	1.00	ribosomal protein S2, pseudogene 5 [Source:MGI Symbol;Acc:MGI:2445179]
ENSMUSG000000002708	Psm5-c5	0.55	0.00	0.00	-0.19	0.10	0.81	0.07	0.68	1.00	protease (prosome, macropain) 26S subunit, ATPase 5 [Source:MGI Symbol;Acc:MGI:105047]
ENSMUSG000000030744	Rps3	0.34	0.00	0.00	-0.05	0.40	0.10	-0.04	0.70	1.00	ribosomal protein S3 [Source:MGI Symbol;Acc:MGI:1350917]
ENSMUSG000000065862	SNORA67	1.01	0.00	0.00	-0.61	0.00	0.09	0.12	0.77	1.00	Small nuclear RNA SNORA67 [Source:RFAM;Acc:RF00272]
ENSMUSG000000002633	Irrm1	0.57	0.00	0.00	-0.19	0.10	0.10	-0.10	0.52	1.00	inositol polyphosphate kinase [Source:MGI Symbol;Acc:MGI:1916968]
ENSMUSG000000070462	Mesd1	1.33	0.00	0.00	-0.63	0.02	0.27	-0.01	1.00	1.00	mesoderm development candidate 1 [Source:MGI Symbol;Acc:MGI:1891420]
ENSMUSG0000000040734	Ppp1131	1.81	0.00	0.00	-0.82	0.02	0.27	-0.06	1.00	1.00	protein phosphatase 1, regulatory (inhibitor) subunit 13 like [Source:MGI Symbol;Acc:MGI:3525053]
ENSMUSG0000000032577	Mapkap3	1.54	0.00	0.00	-0.28	0.34	0.10	-0.07	1.00	1.00	mitogen-activated protein kinase-activated protein kinase 3 [Source:MGI Symbol;Acc:MGI:2143163]
ENSMUSG00000004037	Als2c1	0.72	0.00	0.00	-0.35	0.02	0.25	-0.22	0.28	1.00	ALS2 C-terminal like [Source:MGI Symbol;Acc:MGI:2447523]
ENSMUSG000000002820	Rps2-ps6	0.48	0.00	0.00	-0.12	0.04	0.45	-0.07	0.51	1.00	ribosomal protein S2, pseudogene 5 [Source:MGI Symbol;Acc:MGI:2445179]
ENSMUSG000000002708	Psm5-c5	0.55	0.00	0.00	-0.19	0.10	0.81	0.07	0.68	1.00	protease (prosome, macropain) 26S subunit, ATPase 5 [Source:MGI Symbol;Acc:MGI:105047]
ENSMUSG000000030744	Rps3	0.34	0.00	0.00	-0.05	0.40	0.10	-0.04	0.70	1.00	ribosomal protein S3 [Source:MGI Symbol;Acc:MGI:1350917]
ENSMUSG000000065862	SNORA67	1.01	0.00	0.00	-0.61	0.00	0.09	0.12	0.77	1.00	Small nuclear RNA SNORA67 [Source:RFAM;Acc:RF00272]
ENSMUSG000000002633	Irrm1	0.57	0.00	0.00	-0.19	0.10	0.10	-0.10	0.52	1.00	inositol polyphosphate kinase [Source:MGI Symbol;Acc:MGI:1916968]
ENSMUSG000000070462	Mesd1	1.33	0.00	0.00	-0.63	0.02	0.27	-0.01	1.00	1.00	mesoderm development candidate 1 [Source:MGI Symbol;Acc:MGI:1891420]
ENSMUSG0000000040734	Ppp1131	1.81	0.00	0.00	-0.82	0.02	0.27	-0.06	1.00	1.00	protein phosphatase 1, regulatory (inhibitor) subunit 13 like [Source:MGI Symbol;Acc:MGI:3525053]
ENSMUSG0000000032577	Mapkap3	1.54	0.00	0.00	-0.28	0.34	0.10	-0.07	1.00	1.00	mitogen-activated protein kinase-activated protein kinase 3 [Source:MGI Symbol;Acc:MGI:2143163]
ENSMUSG00000004037	Als2c1	0.72	0.00	0.00	-0.35	0.02	0.25	-0.22	0.28	1.00	ALS2 C-terminal like [Source:MGI Symbol;Acc:MGI:2447523]
ENSMUSG000000002820	Rps2-ps6	0.48	0.00	0.00	-0.12	0.04	0.45	-0.07	0.51	1.00	ribosomal protein S2, pseudogene 5 [Source:MGI Symbol;Acc:MGI:2445179]
ENSMUSG000000002708	Psm5-c5	0.55	0.00	0.00	-0.19	0.10	0.81	0.07	0.68	1.00	protease (prosome, macropain) 26S subunit, ATPase 5 [Source:MGI Symbol;Acc:MGI:105047]
ENSMUSG000000030744	Rps3	0.34	0.00	0.00	-0.05	0.40	0.10	-0.04	0.70	1.00	ribosomal protein S3 [Source:MGI Symbol;Acc:MGI:1350917]
ENSMUSG000000065862	SNORA67	1.01	0.00	0.00	-0.61	0.00	0.09	0.12	0.77	1.00	Small nuclear RNA SNORA67 [Source:RFAM;Acc:RF00272]
ENSMUSG000000002633	Irrm1	0.57	0.00	0.00	-0.19	0.10	0.10	-0.10	0.52	1.00	inositol polyphosphate kinase [Source:MGI Symbol;Acc:MGI:1916968]
ENSMUSG000000070462	Mesd1	1.33	0.00	0.00	-0.63	0.02	0.27	-0.01	1.00	1.00	mesoderm development candidate 1 [Source:MGI Symbol;Acc:MGI:1891420]
ENSMUSG0000000040734	Ppp1131	1.81	0.00	0.00	-0.82	0.02	0.27	-0.06	1.00	1.00	protein phosphatase 1, regulatory (inhibitor) subunit 13 like [Source:MGI Symbol;Acc:MGI:3525053]
ENSMUSG0000000032577	Mapkap3	1.54	0.00	0.00	-0.28	0.34	0.10	-0.07	1.00	1.00	mitogen-activated protein kinase-activated protein kinase 3 [Source:MGI Symbol;Acc:MGI:2143163]
ENSMUSG00000004037	Als2c1	0.72	0.00	0.00	-0.35	0.02	0.25	-0.22	0.28	1.00	ALS2 C-terminal like [Source:MGI Symbol;Acc:MGI:2447523]
ENSMUSG000000002820	Rps2-ps6	0.48	0.00	0.00	-0.12	0.04	0.45	-0.07	0.51	1.00	ribosomal protein S2, pseudogene 5 [Source:MGI Symbol;Acc:MGI:2445179]
ENSMUSG000000002708	Psm5-c5	0.55	0.00	0.00	-0.19	0.10	0.81	0.07	0.68	1.00	protease (prosome, macropain) 26S subunit, ATPase 5 [Source:MGI Symbol;Acc:MGI:105047]
ENSMUSG000000030744	Rps3	0.34	0.00	0.00	-0.05	0.40	0.10	-0.04	0.70	1.00	ribosomal protein S3 [Source:MGI Symbol;Acc:MGI:1350917]
ENSMUSG000000065862	SNORA67	1.01	0.00	0.00	-0.61	0.00	0.09	0.12	0.77	1.00	Small nuclear RNA SNORA67 [Source:RFAM;Acc:RF00272]
ENSMUSG000000002633	Irrm1	0.57	0.00	0.00	-0.19	0.10	0.10	-0.10	0.52	1.00	inositol polyphosphate kinase [Source:MGI Symbol;Acc

ENSMUSG000000033088	Triopb	0.77	0.00	0.00	-0.22	0.23	1.00	0.09	0.75	1.00	TRIO and F-actin binding protein [Source:MGJ Symbol:Acc:MGJ:1349410]
ENSMUSG0000001379	Apab3	0.95	0.00	0.00	-0.62	0.01	0.09	-0.07	0.92	1.00	amivoid beta (AA) precursor protein-binding, family B, member 3 [Source:MGJ Symbol:Acc:MGJ:108404]
ENSMUSG0000000250	Cyfl1	0.60	0.00	0.00	-0.33	0.02	0.27	-0.12	0.52	1.00	methyl-Cyt binding domain protein 5 [Source:MGJ Symbol:Acc:MGJ:106378]
ENSMUSG0000001240	Ramr2	0.52	0.00	0.00	-0.09	0.43	1.00	0.02	0.93	1.00	receptor (calcitonin) activity modifying protein 2 [Source:MGJ Symbol:Acc:MGJ:1856650]
ENSMUSG0000001078	Nr2c2ap	1.00	0.00	0.00	-0.65	0.00	0.08	-0.05	1.00	1.00	nuclear receptor 2C2-associated protein [Source:MGJ Symbol:Acc:MGJ:1922942]
ENSMUSG0000000450	Coro1c	0.58	0.00	0.00	-0.06	0.67	1.00	0.08	0.68	1.00	coronin, actin binding protein 1C [Source:MGJ Symbol:Acc:MGJ:1345964]
ENSMUSG0000002022	Rhbfl1	0.65	0.00	0.00	-0.32	0.04	0.45	-0.15	0.50	1.00	thomboid family 1 (Drosophila) [Source:MGJ Symbol:Acc:MGJ:104328]
ENSMUSG0000000145	Traf1	0.75	0.00	0.00	-0.32	0.04	0.45	-0.15	0.74	1.00	TRAF-like zinc finger domain containing 1 [Source:MGJ Symbol:Acc:MGJ:1923511]
ENSMUSG0000000592	E1f5a2	1.46	0.00	0.00	-0.73	0.03	0.37	0.04	1.00	1.00	eukaryotic translation initiation factor 5A2 [Source:MGJ Symbol:Acc:MGJ:1933735]
ENSMUSG00000003674	Rpl41	0.47	0.00	0.00	-0.02	0.76	1.00	0.09	0.47	1.00	ribosomal protein L41 [Source:MGJ Symbol:Acc:MGJ:1915195]
ENSMUSG00000006328	Gm7655	1.11	0.00	0.00	-0.24	0.33	1.00	0.08	1.00	1.00	predicted pseudogene 7655 [Source:MGJ Symbol:Acc:MGJ:3645651]
ENSMUSG0000000029	Sh3p1	0.75	0.00	0.00	-0.20	0.16	1.00	0.10	0.10	1.00	signal transducer and activator of transcription 3 SH3 domain and ITAM motif 1 [Source:MGJ Symbol:Acc:MGJ:1320014]
ENSMUSG0000001458	Trp4	0.75	0.00	0.00	-0.05	0.58	1.00	-0.04	0.73	1.00	transient receptor potential cation channel, subfamily V, member 4 [Source:MGJ Symbol:Acc:MGJ:1926945]
ENSMUSG00000059291	Rpl11	0.35	0.00	0.00	-0.06	0.38	1.00	0.02	0.89	1.00	ribosomal protein L11 [Source:MGJ Symbol:Acc:MGJ:1914275]
ENSMUSG00000020736	Nf5c	0.92	0.00	0.00	-0.18	0.40	1.00	0.03	1.00	1.00	5',3'-nucleotidase, cytosolic [Source:MGJ Symbol:Acc:MGJ:1354954]
ENSMUSG00000024456	Dap1	0.65	0.00	0.00	-0.27	0.08	0.68	-0.10	0.69	1.00	diaphanous homolog 1 (Drosophila) [Source:MGJ Symbol:Acc:MGJ:1194490]
ENSMUSG00000008908	Gm142679	0.67	0.00	0.00	-0.19	0.25	1.00	0.04	0.89	1.00	predicted gene 14279 [Source:MGJ Symbol:Acc:MGJ:3625786]
ENSMUSG00000021236	Entpd5	0.29	0.00	0.00	-0.05	0.40	1.00	0.07	0.44	1.00	ectonucleoside triphosphate diphosphohydrolase 5 [Source:MGJ Symbol:Acc:MGJ:1321385]
ENSMUSG00000003698	BC037034	0.78	0.00	0.00	-0.39	0.03	0.39	-0.16	0.55	1.00	cDNA sequence BC037034 [Source:MGJ Symbol:Acc:MGJ:2385896]
ENSMUSG00000007945	Rpl36a	0.49	0.00	0.00	-0.11	0.32	1.00	0.07	0.64	1.00	ribosomal protein L36a [Source:MGJ Symbol:Acc:MGJ:1201789]
ENSMUSG00000000429	Cyfl1	0.67	0.00	0.00	-0.33	0.02	0.27	-0.12	0.07	1.00	procollagen lysine 2-oxoglutarate 5-deoxygenase 2 [Source:MGJ Symbol:Acc:MGJ:1347007]
ENSMUSG00000027646	Sic	0.72	0.00	0.00	-0.27	0.13	0.98	0.04	0.88	1.00	Rous sarcoma oncogene [Source:MGJ Symbol:Acc:MGJ:98397]
ENSMUSG00000006304	Arp2c	0.39	0.00	0.00	-0.13	0.15	1.00	0.08	0.51	1.00	actin related protein 2/3 complex, subunit 2 [Source:MGJ Symbol:Acc:MGJ:1923959]
ENSMUSG00000003602	B230312A22Rk	0.89	0.00	0.00	-0.62	0.00	0.08	-0.02	1.00	1.00	RIKEN cDNA B230312A22 gene [Source:MGJ Symbol:Acc:MGJ:2441854]
ENSMUSG00000002871	Trp1	0.85	0.00	0.00	-0.42	0.01	0.14	-0.10	0.67	1.00	transmembrane protein, apolipoprotein associated 1 [Source:MGJ Symbol:Acc:MGJ:1345190]
ENSMUSG00000000319	Trp9	0.63	0.00	0.00	-0.46	0.00	0.05	-0.10	0.62	1.00	transmembrane protein homolog A (Chlamydomonas) [Source:MGJ Symbol:Acc:MGJ:3027894]
ENSMUSG00000002802	Sh3d19	0.46	0.00	0.00	-0.09	0.40	1.00	0.10	0.49	1.00	SH3 domain protein D19 [Source:MGJ Symbol:Acc:MGJ:1350223]
ENSMUSG00000002832	Pamc2	0.47	0.00	0.00	-0.27	0.02	0.22	0.04	0.78	1.00	proteasome (prosome, macropain) 26S subunit, ATPase 2 [Source:MGJ Symbol:Acc:MGJ:109555]
ENSMUSG000000025485	Ric8	0.71	0.00	0.00	-0.30	0.08	0.68	-0.03	0.94	1.00	resistance to inhibitors of cholinesterase B homolog (C. elegans) [Source:MGJ Symbol:Acc:MGJ:2141866]
ENSMUSG00000026456	Cyfl51	0.75	0.00	0.00	-0.12	0.52	1.00	-0.05	0.57	1.00	cytochrome b5 reductase 1 [Source:MGJ Symbol:Acc:MGJ:1919287]
ENSMUSG00000009564	A43005704Rk	1.37	0.00	0.00	-0.24	0.44	1.00	0.14	0.87	1.00	RIKEN cDNA A43005704 gene [Source:MGJ Symbol:Acc:MGJ:2442125]
ENSMUSG00000042506	Usp22	0.64	0.00	0.00	-0.23	0.13	0.96	0.09	0.66	1.00	ubiquitin specific peptidase 22 [Source:MGJ Symbol:Acc:MGJ:2144157]
ENSMUSG00000040296	Dad58	0.89	0.00	0.00	-0.22	0.31	1.00	-0.02	1.00	1.00	DEAD (Asp-Glu-Ala) box polypeptide 58 [Source:MGJ Symbol:Acc:MGJ:2442858]
ENSMUSG00000025228	Actr1a	0.49	0.00	0.00	-0.24	0.04	0.44	0.07	0.70	1.00	ARP1 actin-related protein 1A, centrin alpha [Source:MGJ Symbol:Acc:MGJ:1858964]
ENSMUSG00000003922	Gm72	0.52	0.00	0.00	-0.11	0.34	1.00	0.11	0.47	1.00	RNA recognition particle 72 [Source:MGJ Symbol:Acc:MGJ:1333795]
ENSMUSG00000027804	Ppid	0.68	0.00	0.00	-0.46	0.01	0.13	0.14	0.57	1.00	peptidylprolyl isomerase D (cyclophilin D) [Source:MGJ Symbol:Acc:MGJ:1914988]
ENSMUSG000000079139	Gm4204	0.96	0.00	0.00	-0.56	0.02	0.22	0.05	0.92	1.00	predicted gene 4204 [Source:MGJ Symbol:Acc:MGJ:3782381]
ENSMUSG000000020893	Per1	0.68	0.00	0.00	-0.19	0.25	1.00	-0.09	0.71	1.00	period homology 1 (Drosophila) [Source:MGJ Symbol:Acc:MGJ:1098283]
ENSMUSG000000031799	Trp9	0.63	0.00	0.00	-0.46	0.00	0.05	-0.10	0.62	1.00	tropomyosin 4 [Source:MGJ Symbol:Acc:MGJ:2449202]
ENSMUSG00000000881	Rpl33a	0.50	0.00	0.00	-0.05	0.40	1.00	0.05	0.91	1.00	ribosomal protein S3A [Source:MGJ Symbol:Acc:MGJ:1202063]
ENSMUSG000000039067	Pemf2	0.54	0.00	0.00	-0.36	0.01	0.10	-0.08	0.66	1.00	proteasome (prosome, macropain) 26S subunit, non-ATPase, 7 [Source:MGJ Symbol:Acc:MGJ:1351511]
ENSMUSG000000004562	Ahgef40	0.80	0.00	0.00	-0.33	0.09	0.73	-0.16	0.59	1.00	Rho guanine nucleotide exchange factor (GEF) 40 [Source:MGJ Symbol:Acc:MGJ:2685515]
ENSMUSG000000006920	Ezh1	0.51	0.00	0.00	-0.11	0.39	1.00	-0.12	0.50	1.00	enhancer of zeste homolog 1 (Drosophila) [Source:MGJ Symbol:Acc:MGJ:1097695]
ENSMUSG000000002542	Gm72	0.52	0.00	0.00	-0.11	0.47	1.00	-0.11	0.52	1.00	signal transducer and activator of transcription 6 [Source:MGJ Symbol:Acc:MGJ:1930334]
ENSMUSG000000081406	Rpl8b-ps4	0.38	0.00	0.00	-0.11	0.18	1.00	0.05	0.71	1.00	ribosomal protein S8, pseudogene 4 [Source:MGJ Symbol:Acc:MGJ:3650907]
ENSMUSG00000047126	Ctrc	0.30	0.00	0.00	-0.01	0.90	1.00	0.11	0.22	1.00	clathrin, heavy polypeptide (Ho) [Source:MGJ Symbol:Acc:MGJ:2388633]
ENSMUSG000000043424	E1f32	0.65	0.00	0.00	-0.38	0.02	0.23	0.23	0.26	1.00	eukaryotic translation initiation factor 3, subunit J2 [Source:MGJ Symbol:Acc:MGJ:3704486]
ENSMUSG00000019437	Ticl1	0.34	0.00	0.00	-0.08	0.28	1.00	0.03	0.28	1.00	TLC domain containing 1 [Source:MGJ Symbol:Acc:MGJ:1915722]
ENSMUSG000000070436	Serpin11	0.64	0.00	0.00	-0.30	0.05	0.48	0.14	0.50	1.00	serpin (or cysteine) peptidase inhibitor, clade H, member 1 [Source:MGJ Symbol:Acc:MGJ:88283]
ENSMUSG00000002230	E430025E21Rk	0.55	0.00	0.00	-0.23	0.09	0.74	-0.04	0.88	1.00	RIKEN cDNA E430025E21 gene [Source:MGJ Symbol:Acc:MGJ:2146110]
ENSMUSG000000025809	hgr1	0.35	0.00	0.00	-0.23	0.00	0.08	0.11	0.31	1.00	integrin beta 1 (fibronectin receptor beta) [Source:MGJ Symbol:Acc:MGJ:96610]
ENSMUSG000000040078	Gm9769	0.75	0.00	0.00	-0.33	0.07	0.64	-0.19	0.49	1.00	predicted pseudogene 9769 [Source:MGJ Symbol:Acc:MGJ:3704271]
ENSMUSG000000003952	Gm72	0.52	0.00	0.00	-0.11	0.34	1.00	-0.05	0.90	1.00	poly (ADP-ribose) polymerase family, member 10 [Source:MGJ Symbol:Acc:MGJ:3712326]
ENSMUSG00000001542	E1f2	0.63	0.00	0.00	-0.17	0.27	1.00	0.16	0.44	1.00	elongation factor RNA polymerase II 2 [Source:MGJ Symbol:Acc:MGJ:2193348]
ENSMUSG00000022698	Naaf50	0.47	0.00	0.00	-0.31	0.01	0.09	0.25	0.08	1.00	N[alpha]-acetyltransferase 50, Na/E catalytic subunit [Source:MGJ Symbol:Acc:MGJ:1919367]
ENSMUSG000000035342	Ltst2	0.63	0.00	0.00	-0.28	0.09	0.74	-0.19	0.36	1.00	leucine zipper, putative tumor suppressor 2 [Source:MGJ Symbol:Acc:MGJ:2380595]
ENSMUSG000000019437	Ticl1	0.34	0.00	0.00	-0.08	0.28	1.00	0.03	0.28	1.00	TLC domain containing 1 [Source:MGJ Symbol:Acc:MGJ:2444698]
ENSMUSG000000005461	Kdn2a	0.51	0.00	0.00	-0.31	0.01	0.18	0.05	0.78	1.00	lysine (K)-specific demethylase 2A [Source:MGJ Symbol:Acc:MGJ:1354736]
ENSMUSG000000003235	E1f2b5	0.60	0.00	0.00	-0.19	0.19	1.00	0.00	1.00	1.00	eukaryotic translation initiation factor 2B, subunit 5 epsilon [Source:MGJ Symbol:Acc:MGJ:2446176]
ENSMUSG0000000034620	Tmem5	0.87	0.00	0.00	-0.37	0.10	0.81	0.00	1.00	1.00	transmembrane protein 5 [Source:MGJ Symbol:Acc:MGJ:2384919]
ENSMUSG000000028691	Pdxn1	0.27	0.00	0.00	-0.08	0.10	0.84	-0.02	0.84	1.00	peroxiredoxin 1 [Source:MGJ Symbol:Acc:MGJ:39623]
ENSMUSG000000002321	Rpl2c	0.59	0.00	0.00	-0.11	0.34	1.00	0.03	0.89	1.00	ribosomal protein L2c [Source:MGJ Symbol:Acc:MGJ:1924238]
ENSMUSG000000083087	Gm11249	0.45	0.00	0.00	0.00	1.00	1.00	0.14	0.33	1.00	predicted gene 11249 [Source:MGJ Symbol:Acc:MGJ:3650834]
ENSMUSG000000025794	Rpl14	0.46	0.00	0.00	-0.03	0.78	1.00	0.16	0.27	1.00	ribosomal protein L14 [Source:MGJ Symbol:Acc:MGJ:1914365]
ENSMUSG000000006905	Trp	0.47	0.00	0.00	-0.18	0.10	0.81	0.11	0.48	1.00	translocated promoter region [Source:MGJ Symbol:Acc:MGJ:1922066]
ENSMUSG000000025487	Pemf13	0.52	0.00	0.00	-0.19	0.12	0.83	0.11	0.51	1.00	proteasome (prosome, macropain) 26S subunit, non-ATPase, 13 [Source:MGJ Symbol:Acc:MGJ:1345192]
ENSMUSG000000001442	Ctst1	1.29	0.00	0.00	-0.38	0.08	0.53	0.11	0.51	1.00	PDZ and LIM domain protein 1 [Source:MGJ Symbol:Acc:MGJ:1914649]
ENSMUSG000000025613	Cst8	0.39	0.00	0.00	-0.18	0.05	0.53	0.11	0.37	1.00	chaperonin containing Top1, subunit 8 (theta) [Source:MGJ Symbol:Acc:MGJ:107183]
ENSMUSG000000021585	Cast	0.74	0.00	0.00	-0.21	0.25	1.00	0.00	1.00	1.00	calpastatin [Source:MGJ Symbol:Acc:MGJ:1098238]
ENSMUSG000000027412	Lipn3	0.96	0.00	0.00	-0.45	0.05	0.52	-0.13	0.82	1.00	lipin 3 [Source:MGJ Symbol:Acc:MGJ:1891342]
ENSMUSG000000002649	Cyfl7a	0.65	0.00	0.00	-0.31	0.02	0.29	0.04	0.22	1.00	1,2-diol dehydratase 2 [Source:MGJ Symbol:Acc:MGJ:1347076]
ENSMUSG000000029147	Ppm1a	0.57	0.00	0.00	-0.29	0.29	0.40	0.40	0.62	1.00	protein phosphatase 1G (formerly 2C), magnesium-dependent, gamma isoform [Source:MGJ Symbol:Acc:MGJ:1006065]
ENSMUSG0000000035021	Baz1a	1.02	0.00	0.00	-0.65	0.01	0.15	0.32	0.82	1.00	bromodomain adjacent to zinc finger domain 1A [Source:MGJ Symbol:Acc:MGJ:1309478]
ENSMUSG000000042626	Shc1	0.61	0.00	0.00	-0.29	0.06	0.56	0.04	0.90	1.00	src homology 2 domain-containing transforming protein C1 [Source:MGJ Symbol:Acc:MGJ:98296]
ENSMUSG00000010765	Cars1	0.92	0.00	0.00	-0.41	0.06	0.61	-0.01	1.00	1.00	cysteine-HRNase domain-containing protein 1 [Source:MGJ Symbol:Acc:MGJ:3704271]
ENSMUSG00000007160	Trp1	0.40	0.00	0.00	-0.01	0.92	1.00	0.04	0.79	1.00	Ubl5 domain protein 1 [Source:MGJ Symbol:Acc:MGJ:288301]
ENSMUSG000000084333	Gm11599	0.50	0.00	0.00	0.00	1.00	1.00	0.16	0.33	1.00	predicted gene 11599 [Source:MGJ Symbol:Acc:MGJ:3651840]
ENSMUSG000000027995	Trp2	1.75	0.00	0.00	-1.00	0.02	0.26	0.14	1.00	1.00	toll-like receptor 2 [Source:MGJ Symbol:Acc:MGJ:1346060]
ENSMUSG000000021835	Rmp4	0.69	0.00	0.00	-0.16	0.36	1.00	0.09	0.72	1.00	bone morphogenetic protein 4 [Source:MGJ Symbol:Acc:MGJ:88180]
ENSMUSG000000003024	Trp1	0.40	0.00	0.00	-0.11	0.34	1.00	0.03	0.59	1.00	translation initiation factor 5B [Source:MGJ Symbol:Acc:MGJ:2441772]
ENSMUSG000000001415	Smp5	0.49	0.00	0.00	-0.20	0.10	0.82	0.04	0.86	1.00	Smp-5 homolog, nonsense mediated mRNA decay factor (C. elegans) [Source:MGJ Symbol:Acc:MGJ:2447364]
ENSMUSG0000000085893	Gm12091	0.46	0.00	0.00	0.02	0.89	1.00	0.13	0.36	1.00	predicted gene 12091 [Source:MGJ Symbol:Acc:MGJ:3650809]
ENSMUSG000000041889	Sh4a4	1.37	0.00	0.00	-0.41	0.22	1.00	0.07	1.00	1.00	shia homolog 4 (Xenopus lae

ENSMUSG0000024812	Tjp2	0.69	0.00	0.00	-0.18	0.34	1.00	-0.16	0.52	1.00	tight junction protein 2 [Source:MGI Symbol:Acc:MGI:1341872]
ENSMUSG0000022241	Tars	0.66	0.00	0.01	-0.38	0.03	0.34	0.11	0.71	1.00	thronyol-RNA synthetase [Source:MGI Symbol:Acc:MGI:106314]
ENSMUSG0000020415	Tax1b	0.59	0.00	0.01	-0.15	0.33	1.00	0.01	1.00	1.00	viral simian leukemia virus oncogene homolog B (ras related) [Source:MGI Symbol:Acc:MGI:1927244]
ENSMUSG000001672	Marveld3	0.95	0.00	0.01	-0.32	0.18	1.00	-0.08	0.82	1.00	MARVEL (membrane-associated) domain containing 3 [Source:MGI Symbol:Acc:MGI:1920858]
ENSMUSG00000096156	CTO9632.1	0.59	0.00	0.01	-0.19	0.23	1.00	0.03	1.00	1.00	Uncharacterized protein [Source:UniProtKB/TrEMBL:Acc:J3QNY1]
ENSMUSG0000020775	Mp138	0.49	0.00	0.01	-0.12	0.33	1.00	0.13	0.45	1.00	mitochondrial ribosomal protein L38 [Source:MGI Symbol:Acc:MGI:1926289]
ENSMUSG0000027236	Efr3f1	0.52	0.00	0.01	-0.32	0.02	0.23	0.16	0.34	1.00	eukaryotic translation initiation factor 3, subunit J1 [Source:MGI Symbol:Acc:MGI:1925905]
ENSMUSG0000002234	Tsc22d4	2.11	0.00	0.01	-0.22	0.02	0.30	0.12	0.41	1.00	Rat Rab interacting 1 [Source:MGI Symbol:Acc:MGI:2386659]
ENSMUSG00000068299	1700019G17Rk	1.07	0.00	0.01	-0.33	0.22	1.00	-0.34	0.41	1.00	RIKEN cDNA 170019G17 gene [Source:MGI Symbol:Acc:MGI:1922791]
ENSMUSG00000091383	HistH2al	0.89	0.00	0.01	-0.38	0.11	0.85	-0.05	1.00	1.00	histone cluster 1, H2al [Source:MGI Symbol:Acc:MGI:3646023]
ENSMUSG00000038167	Plk4hg6	1.32	0.00	0.01	-0.19	0.62	1.00	-0.11	1.00	1.00	pleckstrin homolog domain containing, family G (with RhoGEF domain) member 6 [Source:MGI Symbol:Acc:MGI:2682298]
ENSMUSG0000002461	Plk4hc3	0.75	0.00	0.01	-0.11	0.01	1.00	0.18	1.00	1.00	adipophilin C-1H [Source:MGI Symbol:Acc:MGI:88055]
ENSMUSG00000046866	Fh1	0.66	0.00	0.01	-0.31	0.08	0.70	0.04	0.94	1.00	fibroblastin [Source:MGI Symbol:Acc:MGI:85468]
ENSMUSG00000006611	Hfe	1.25	0.00	0.01	-0.16	0.63	1.00	-0.22	0.74	1.00	hemochromatosis [Source:MGI Symbol:Acc:MGI:109191]
ENSMUSG00000022043	Trim35	0.59	0.00	0.01	-0.20	0.23	1.00	0.05	0.89	1.00	tripartite motif-containing 35 [Source:MGI Symbol:Acc:MGI:1914104]
ENSMUSG00000064281	Rpl19-ps1	0.62	0.00	0.01	-0.08	0.66	1.00	0.05	0.83	1.00	ribosomal protein L19, pseudogene 1 [Source:MGI Symbol:Acc:MGI:3642668]
ENSMUSG00000002923	Tsc22d4	2.11	0.00	0.01	-0.22	0.02	0.30	0.12	0.41	1.00	TSC22 domain family, member 4 [Source:MGI Symbol:Acc:MGI:1926070]
ENSMUSG00000045211	Nudt18	0.96	0.00	0.01	-0.24	0.38	1.00	0.00	1.00	1.00	nudix (nucleoside diphosphate linked moiety X)-type motif 18 [Source:MGI Symbol:Acc:MGI:2385853]
ENSMUSG00000038615	Nfe2t1	0.37	0.00	0.01	-0.21	0.03	0.36	-0.01	0.97	1.00	nuclear factor, erythroid derived 2-like 1 [Source:MGI Symbol:Acc:MGI:99421]
ENSMUSG00000036336	Crip2	0.65	0.00	0.01	-0.41	0.02	0.27	-0.10	0.65	1.00	cysteine rich protein 2 [Source:MGI Symbol:Acc:MGI:1915587]
ENSMUSG00000064281	Rpl19-ps1	0.62	0.00	0.01	-0.08	0.66	1.00	0.05	0.83	1.00	ribosomal protein L19, pseudogene 1 [Source:MGI Symbol:Acc:MGI:3642668]
ENSMUSG00000005576	Ube2m	0.52	0.00	0.01	-0.26	0.05	0.55	0.14	0.45	1.00	ubiquitin-conjugating enzyme E2M [Source:MGI Symbol:Acc:MGI:108278]
ENSMUSG00000049881	2810025M15Rk	1.00	0.00	0.01	-0.26	0.36	1.00	0.08	0.90	1.00	RIKEN cDNA 2810025M15 gene [Source:MGI Symbol:Acc:MGI:1917203]
ENSMUSG00000078652	Pama3	0.46	0.00	0.01	-0.27	0.03	0.34	0.08	0.63	1.00	proteasome (prosome, macropain) 28 subunit, 3 [Source:MGI Symbol:Acc:MGI:1096366]
ENSMUSG00000048603	Tmem136	0.93	0.00	0.01	-0.15	0.59	1.00	-0.20	0.56	1.00	transmembrane protein 136 [Source:MGI Symbol:Acc:MGI:2685030]
ENSMUSG00000002909	Trp53	0.75	0.00	0.01	-0.09	0.56	1.00	-0.33	0.84	1.00	LIM and sesoned cell antigen 1-like domain 2 [Source:MGI Symbol:Acc:MGI:2385057]
ENSMUSG00000061689	Dlgap4	0.72	0.00	0.01	-0.38	0.05	0.49	0.15	0.1	1.00	Dlg discs, large homolog-associated protein 4 (Drosophila) [Source:MGI Symbol:Acc:MGI:2138865]
ENSMUSG00000026276	Sept2	0.44	0.00	0.01	-0.21	0.06	0.61	0.13	0.37	1.00	sepin 2 [Source:MGI Symbol:Acc:MGI:97298]
ENSMUSG00000027999	Plaz12a	0.79	0.00	0.01	-0.04	0.89	1.00	0.02	1.00	1.00	phospholipase A2, group XIIA [Source:MGI Symbol:Acc:MGI:1913600]
ENSMUSG00000040686	Tris2	0.75	0.00	0.01	-0.29	0.14	1.00	-0.02	1.00	1.00	intraductal (beta)-like 3 [Source:MGI Symbol:Acc:MGI:2384683]
ENSMUSG00000040297	Suco	0.56	0.00	0.01	-0.10	0.51	1.00	0.16	0.42	1.00	SUN domain containing ossification factor [Source:MGI Symbol:Acc:MGI:2138346]
ENSMUSG0000021579	Lrrc14b	1.39	0.00	0.01	-0.64	0.05	0.54	-0.05	1.00	1.00	leucine rich repeat containing 14B [Source:MGI Symbol:Acc:MGI:2145269]
ENSMUSG0000020905	Usp43	1.58	0.00	0.01	-0.68	0.10	0.84	-0.21	0.82	1.00	ubiquitin specific peptidase 43 [Source:MGI Symbol:Acc:MGI:2444541]
ENSMUSG0000007057	ALS99850.1	0.65	0.00	0.01	-0.43	0.02	0.24	0.02	1.00	1.00	WD repeat and SOCS box containing 2 [Source:MGI Symbol:Acc:MGI:2144041]
ENSMUSG0000023944	Trp53	0.75	0.00	0.01	-0.08	0.43	1.00	0.10	0.47	1.00	WD repeat and SOCS box containing 2 [Source:MGI Symbol:Acc:MGI:2144041]
ENSMUSG0000020078	Vps26a	0.47	0.00	0.01	-0.20	0.10	0.83	0.00	1.00	1.00	vacuolar protein sorting 26 homolog A (yeast) [Source:MGI Symbol:Acc:MGI:1353654]
ENSMUSG00000031875	Ctmn3	1.20	0.00	0.01	-0.87	0.01	0.10	-0.04	1.00	1.00	KCLF-like MARVEL transmembrane domain containing 3 [Source:MGI Symbol:Acc:MGI:2447162]
ENSMUSG00000062310	Slc39a1	0.51	0.00	0.01	-0.30	0.03	0.35	-0.02	0.96	1.00	solute carrier family 39 (zinc transporter), member 1 [Source:MGI Symbol:Acc:MGI:1353474]
ENSMUSG00000044285	Gm1821	0.19	0.00	0.01	-0.06	0.18	1.00	0.01	0.94	1.00	predicted gene 1821 [Source:MGI Symbol:Acc:MGI:3037879]
ENSMUSG00000034256	Afpap27	0.59	0.00	0.01	-0.03	0.92	1.00	-0.05	0.84	1.00	Rho GTPase activating protein 27 [Source:MGI Symbol:Acc:MGI:1916903]
ENSMUSG00000050779	PsmB4	0.38	0.00	0.01	-0.22	0.01	0.13	-0.18	0.16	1.00	proteasome (prosome, macropain) subunit, beta type 4 [Source:MGI Symbol:Acc:MGI:1098257]
ENSMUSG00000078317	Fba	1.02	0.00	0.01	-0.19	0.50	1.00	-0.10	0.90	1.00	factor B-associated gene A [Source:MGI Symbol:Acc:MGI:95474]
ENSMUSG00000038650	Rhn1	0.40	0.00	0.01	-0.15	0.15	1.00	-0.07	0.63	1.00	ribonucleotidyltransferase inhibitor 1 [Source:MGI Symbol:Acc:MGI:1195456]
ENSMUSG00000002614	Tris2	0.75	0.00	0.01	-0.29	0.14	1.00	-0.02	1.00	1.00	intraductal (beta)-like 3 [Source:MGI Symbol:Acc:MGI:2384683]
ENSMUSG00000028367	Tnni	0.33	0.00	0.01	-0.04	0.56	1.00	-0.05	0.65	1.00	threonine 1 [Source:MGI Symbol:Acc:MGI:98874]
ENSMUSG00000034850	Tmem127	0.44	0.00	0.01	-0.16	0.16	1.00	-0.01	0.97	1.00	transmembrane protein 127 [Source:MGI Symbol:Acc:MGI:1916720]
ENSMUSG0000003970	Rpl8	0.30	0.00	0.01	-0.08	0.21	1.00	0.04	0.75	1.00	ribosomal protein L8 [Source:MGI Symbol:Acc:MGI:1350927]
ENSMUSG0000022852	Nras	0.68	0.00	0.01	-0.40	0.03	0.39	0.01	1.00	1.00	neuroblastoma ras oncogene [Source:MGI Symbol:Acc:MGI:97376]
ENSMUSG00000031715	Smarca5	0.56	0.00	0.01	-0.35	0.02	0.27	0.14	0.44	1.00	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily A, member 5 [Source:MGI Symbol:Acc:MGI:1935129]
ENSMUSG00000006073	B4galnt1	1.12	0.00	0.01	-0.44	0.11	0.86	-0.15	0.89	1.00	beta 1,4-N-acetyl-galactosaminyl transferase 1 [Source:MGI Symbol:Acc:MGI:1342057]
ENSMUSG00000038604	Fam65a	0.55	0.00	0.01	-0.37	0.01	0.18	-0.16	0.38	1.00	family with sequence similarity 65, member A [Source:MGI Symbol:Acc:MGI:1922937]
ENSMUSG00000021190	Lgmn	0.25	0.00	0.01	-0.03	0.70	1.00	-0.09	0.30	1.00	legumain [Source:MGI Symbol:Acc:MGI:1330838]
ENSMUSG00000030342	Tris2	0.75	0.00	0.01	-0.29	0.14	1.00	-0.02	1.00	1.00	intraductal (beta)-like 3 [Source:MGI Symbol:Acc:MGI:2384683]
ENSMUSG00000079263	Gm6614	1.14	0.00	0.01	-0.35	0.20	1.00	0.22	0.68	1.00	predicted gene 6614 [Source:MGI Symbol:Acc:MGI:3647159]
ENSMUSG00000017631	Abr	0.53	0.00	0.01	-0.27	0.07	0.62	0.08	0.69	1.00	active BCR-related gene [Source:MGI Symbol:Acc:MGI:107771]
ENSMUSG00000027091	Zc3h15	0.49	0.00	0.01	-0.29	0.03	0.38	0.13	0.46	1.00	zinc finger CCH-type containing 15 [Source:MGI Symbol:Acc:MGI:1919747]
ENSMUSG00000008249	Rpl19-ps1	0.62	0.00	0.01	-0.08	0.66	1.00	0.05	0.83	1.00	ribosomal protein L19, pseudogene 1 [Source:MGI Symbol:Acc:MGI:3642668]
ENSMUSG00000028010	Gat1	1.20	0.00	0.01	-0.74	0.02	0.24	0.08	1.00	1.00	GAO1 R1B nucleocapsid protein (yeast) [Source:MGI Symbol:Acc:MGI:1930948]
ENSMUSG00000092609	Gm20481	1.17	0.00	0.01	-0.63	0.05	0.53	0.21	0.67	1.00	predicted gene 20481 [Source:MGI Symbol:Acc:MGI:5141946]
ENSMUSG00000031617	Tmem184c	0.75	0.00	0.01	-0.08	0.69	1.00	0.13	0.66	1.00	transmembrane protein 184c [Source:MGI Symbol:Acc:MGI:2384562]
ENSMUSG00000031016	Wee1	1.25	0.00	0.01	-0.28	0.41	1.00	0.36	0.54	1.00	WEE1 - homolog 1 (S. pombe) [Source:MGI Symbol:Acc:MGI:103075]
ENSMUSG00000002967	Nras	0.68	0.00	0.01	-0.40	0.03	0.39	0.01	1.00	1.00	neuroblastoma ras oncogene [Source:MGI Symbol:Acc:MGI:97376]
ENSMUSG00000040525	Clic	0.65	0.00	0.01	-0.15	0.41	1.00	0.00	1.00	1.00	Casitas B-lineage lymphoma c [Source:MGI Symbol:Acc:MGI:1931457]
ENSMUSG00000028646	Rrac	0.50	0.00	0.01	-0.31	0.02	0.27	0.00	1.00	1.00	Ras-related GTP binding C [Source:MGI Symbol:Acc:MGI:1858751]
ENSMUSG00000006390	Elovl1	0.42	0.00	0.01	0.13	0.22	1.00	-0.05	0.80	1.00	Elovl elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 1 [Source:MGI Symbol:Acc:MGI:1859909]
ENSMUSG00000029186	Slc42a2	1.43	0.00	0.01	-0.29	0.48	1.00	-0.32	0.68	1.00	solute carrier family 34 (sodium phosphate), member 2 [Source:MGI Symbol:Acc:MGI:1342284]
ENSMUSG00000004184	Wdr74	0.88	0.00	0.01	-0.08	0.68	0.56	0.00	0.90	1.00	WD repeat domain 74 [Source:MGI Symbol:Acc:MGI:2147427]
ENSMUSG00000020248	Nlyb	0.93	0.00	0.01	-0.56	0.02	0.30	0.07	0.91	1.00	nuclear transcription factor-Y beta [Source:MGI Symbol:Acc:MGI:97317]
ENSMUSG00000019947	Ard5b	1.00	0.00	0.01	-0.29	0.30	1.00	0.15	0.71	1.00	AT rich interactive domain 5B (MRF1-like) [Source:MGI Symbol:Acc:MGI:2175912]
ENSMUSG00000042997	Zfp239	1.63	0.00	0.01	-0.53	0.19	1.00	0.13	1.00	1.00	zinc finger protein 239 [Source:MGI Symbol:Acc:MGI:1306812]
ENSMUSG00000018126	Tris2	0.75	0.00	0.01	-0.29	0.14	1.00	-0.02	1.00	1.00	intraductal (beta)-like 3 [Source:MGI Symbol:Acc:MGI:2384683]
ENSMUSG00000044757	Gm6430	0.45	0.00	0.01	-0.36	0.00	0.06	0.03	0.86	1.00	predicted gene 6430 [Source:MGI Symbol:Acc:MGI:3648857]
ENSMUSG00000071415	Rpl23	0.30	0.00	0.01	-0.04	0.58	1.00	0.03	0.77	1.00	ribosomal protein L23 [Source:MGI Symbol:Acc:MGI:1929455]
ENSMUSG00000079641	Rpl39	0.39	0.00	0.01	-0.06	0.53	1.00	0.11	0.44	1.00	ribosomal protein L39 [Source:MGI Symbol:Acc:MGI:1914988]
ENSMUSG00000031078	Ctn	0.36	0.00	0.01	-0.28	0.01	0.12	-0.02	0.90	1.00	catenin [Source:MGI Symbol:Acc:MGI:99695]
ENSMUSG00000004184	Wdr74	0.88	0.00	0.01	-0.08	0.68	0.56	0.00	0.90	1.00	WD repeat domain 74 [Source:MGI Symbol:Acc:MGI:2147427]
ENSMUSG0000003269	Cyhd2	0.56	0.00	0.01	-0.30	0.07	0.64	0.01	1.00	1.00	cytohesin 2 [Source:MGI Symbol:Acc:MGI:1334255]
ENSMUSG00000040466</											

ENSMUSG00000016619	Nup50	0.51	0.00	0.01	-0.30	0.04	0.47	0.09	0.64	1.00	nucleoporin 50 [Source:MGI Symbol:Acc:MGI:1351502]
ENSMUSG0000001175	Calm1	0.31	0.00	0.01	-0.25	0.00	0.06	0.05	0.66	1.00	calmodulin 1 [Source:MGI Symbol:Acc:MGI:88251]
ENSMUSG0000000789	Wt219.1	0.64	0.00	0.01	-0.38	0.04	0.48	0.12	0.69	1.00	0
ENSMUSG00000065041	SNORA62	0.56	0.00	0.01	-0.05	0.79	1.00	0.10	0.63	1.00	Small nuclear RNA SNORA62/SNORA6 family [Source:RFAM:Acc:RF00091]
ENSMUSG00000030282	Cmas	0.56	0.00	0.01	-0.36	0.03	0.34	0.12	0.59	1.00	cytidine monophospho-N-acetylneuraminic acid synthetase [Source:MGI Symbol:Acc:MGI:1337124]
ENSMUSG00000028423	Ntk1	0.49	0.00	0.01	-0.16	0.24	1.00	0.07	0.71	1.00	nuclear transcription factor, X-box binding 1 [Source:MGI Symbol:Acc:MGI:1921414]
ENSMUSG00000035725	Pfkfb	0.82	0.00	0.01	-0.42	0.08	0.71	-0.03	1.00	1.00	protein kinase, X-kinase [Source:MGI Symbol:Acc:MGI:1309999]
ENSMUSG00000029475	Elf3b	0.53	0.00	0.01	-0.26	0.12	0.06	0.12	0.86	1.25	regulator of transcription factor 1 [Source:MGI Symbol:Acc:MGI:107494]
ENSMUSG00000070319	Elf3g	0.53	0.00	0.01	-0.33	0.03	0.36	-0.03	0.90	1.00	eukaryotic translation initiation factor 3, subunit G [Source:MGI Symbol:Acc:MGI:1858258]
ENSMUSG000000081953	Gm12435	0.43	0.00	0.01	-0.35	0.01	0.10	0.03	0.86	1.00	predicted gene 12435 [Source:MGI Symbol:Acc:MGI:3651950]
ENSMUSG00000029032	Ahrgef16	0.46	0.00	0.01	-0.04	0.77	1.00	0.00	0.88	1.00	Rho guanine nucleotide exchange factor (GEF) 16 [Source:MGI Symbol:Acc:MGI:2446219]
ENSMUSG00000029039	Ahrgef16	1.11	0.00	0.01	-0.16	0.01	0.16	-0.08	1.00	1.00	family with sequence similarity 57, member A [Source:MGI Symbol:Acc:MGI:2151940]
ENSMUSG00000003549	Erc2	1.10	0.00	0.01	-0.75	0.02	0.26	-0.14	0.88	1.00	essential repair deficiency rodent nuclear deficiency, complementation group 1 [Source:MGI Symbol:Acc:MGI:95412]
ENSMUSG000000032003	Cdv3	0.45	0.00	0.01	-0.35	0.01	0.12	0.14	0.38	1.00	carnitine deficiency-complex gene expressed in ventricle 3 [Source:MGI Symbol:Acc:MGI:2448759]
ENSMUSG00000024429	Gnt1	0.61	0.00	0.01	-0.29	0.11	0.87	0.17	0.47	1.00	guanine nucleotide binding protein-like 1 [Source:MGI Symbol:Acc:MGI:95764]
ENSMUSG00000022391	Rangap1	0.50	0.00	0.01	-0.38	0.01	0.18	0.12	0.50	1.00	RAK1 GTPase activating protein 1 [Source:MGI Symbol:Acc:MGI:103071]
ENSMUSG00000020494	492138K21Rk	2.09	0.00	0.01	-0.63	0.13	0.98	-0.09	1.00	1.00	RIKEN cDNA 492138K21 gene [Source:MGI Symbol:Acc:MGI:1914680]
ENSMUSG00000029888	Trpv6	2.03	0.00	0.01	-0.51	0.34	1.00	-0.18	1.00	1.00	transient receptor potential cation channel, subfamily V, member 6 [Source:MGI Symbol:Acc:MGI:19227250]
ENSMUSG00000021392	No8	0.80	0.00	0.01	-0.53	0.02	0.29	0.03	1.00	1.00	nuclear protein 8 [Source:MGI Symbol:Acc:MGI:1918180]
ENSMUSG00000026434	Nuckx1	0.42	0.00	0.01	-0.08	0.49	1.00	0.06	0.73	1.00	nuclear casein kinase and cyclin-dependent kinase substrate 1 [Source:MGI Symbol:Acc:MGI:1934811]
ENSMUSG00000001626	Rhm25	0.28	0.00	0.01	-0.08	0.45	1.00	0.08	0.57	1.00	RNA binding motif protein 25 [Source:MGI Symbol:Acc:MGI:1914298]
ENSMUSG00000000126	Wntda	2.38	0.00	0.01	-1.61	0.01	0.18	0.11	1.00	1.00	wingless-type MMTV integration site 9A [Source:MGI Symbol:Acc:MGI:2446084]
ENSMUSG00000028288	Glp3	1.30	0.00	0.01	-1.01	0.01	0.13	-0.04	1.00	1.00	guanylate binding protein 3 [Source:MGI Symbol:Acc:MGI:1926263]
ENSMUSG000000075470	Alg10b	0.71	0.00	0.01	-0.34	0.10	0.83	0.13	0.66	1.00	asparagine-linked glycosylation 10B (alpha-1,2-glucosyltransferase) [Source:MGI Symbol:Acc:MGI:2146169]
ENSMUSG00000027851	Ada	0.64	0.00	0.01	-0.26	0.17	1.00	-0.04	0.94	1.00	adenosine deaminase, RNA-specific [Source:MGI Symbol:Acc:MGI:1889575]
ENSMUSG00000000687	12960	0.67	0.00	0.01	-0.19	0.25	1.00	0.05	1.00	1.00	predicted gene 12960 [Source:MGI Symbol:Acc:MGI:3651525]
ENSMUSG000000097229	AC108401.2	1.26	0.00	0.01	-0.78	0.03	0.33	-0.17	1.00	1.00	0
ENSMUSG000000028741	Mtna	0.87	0.00	0.01	-0.37	0.16	1.00	0.10	0.82	1.00	MRT4, mRNA turnover 4, homolog (S. cerevisiae) [Source:MGI Symbol:Acc:MGI:1917152]
ENSMUSG000000063293	Pom121	0.66	0.00	0.01	-0.42	0.03	0.39	-0.07	0.86	1.00	nuclear pore membrane protein 121 [Source:MGI Symbol:Acc:MGI:2137624]
ENSMUSG000000029475	Elf3b	0.62	0.00	0.01	-0.20	0.26	1.00	-0.14	0.58	1.00	lysine (K)-specific demethylase 28 [Source:MGI Symbol:Acc:MGI:1354737]
ENSMUSG00000073684	261002J02Rk	0.79	0.00	0.01	-0.21	0.38	1.00	0.10	0.77	1.00	RIKEN cDNA 261002J02 gene [Source:MGI Symbol:Acc:MGI:1914763]
ENSMUSG000000091021	Gm17300	1.01	0.00	0.01	-0.86	0.00	0.06	0.05	1.00	1.00	predicted gene, 17300 [Source:MGI Symbol:Acc:MGI:4936934]
ENSMUSG000000006476	Nefl	0.49	0.00	0.01	-0.18	0.20	1.00	-0.13	0.49	1.00	nasal embryonic LHRH factor [Source:MGI Symbol:Acc:MGI:1861755]
ENSMUSG0000000035726	Sup116b	0.51	0.00	0.01	-0.30	0.04	0.46	0.03	0.90	1.00	suppressor of Ty 16 homolog (S. cerevisiae) [Source:MGI Symbol:Acc:MGI:1890948]
ENSMUSG00000002578	Gm12941	0.52	0.00	0.01	-0.09	0.60	1.00	0.01	0.93	1.00	predicted gene 12941 [Source:MGI Symbol:Acc:MGI:3651048]
ENSMUSG000000066538	Gm6254	0.56	0.00	0.01	-0.18	0.29	1.00	0.01	1.00	1.00	predicted gene 6254 [Source:MGI Symbol:Acc:MGI:3648838]
ENSMUSG000000049404	Gm12689	1.08	0.00	0.01	-0.08	0.85	1.00	0.14	0.78	1.00	predicted gene 12689 [Source:MGI Symbol:Acc:MGI:3651683]
ENSMUSG000000025362	Rps26	0.39	0.00	0.01	-0.08	0.44	1.00	0.06	0.73	1.00	ribosomal protein S26 [Source:MGI Symbol:Acc:MGI:1351628]
ENSMUSG00000015966	H17fb	0.92	0.00	0.01	-0.21	0.39	1.00	0.03	1.00	1.00	interleukin 17 receptor B [Source:MGI Symbol:Acc:MGI:1355252]
ENSMUSG00000028124	Gdm	0.23	0.00	0.01	-0.02	0.96	1.00	0.23	0.01	1.00	glutamate-cysteine ligase, modifier subunit [Source:MGI Symbol:Acc:MGI:1040955]
ENSMUSG000000032562	Gna2	0.33	0.00	0.01	-0.05	0.59	1.00	0.05	0.69	1.00	guanine nucleotide binding protein (G protein), alpha inhibiting 2 [Source:MGI Symbol:Acc:MGI:95772]
ENSMUSG000000025745	Hadha	0.32	0.00	0.01	-0.07	0.37	1.00	0.02	0.90	1.00	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit [Source:MGI Symbol:Acc:MGI:2135593]
ENSMUSG000000037149	Ddx1	0.39	0.00	0.01	-0.14	0.23	1.00	0.02	0.90	1.00	DEAD (Asp-Glu-Ala-Asp) box polypeptide 1 [Source:MGI Symbol:Acc:MGI:2144727]
ENSMUSG00000000185	Rps14	0.53	0.00	0.01	-0.02	0.88	1.00	0.04	0.87	1.00	TRAM1 homolog 1 homolog (S. cerevisiae) [Source:MGI Symbol:Acc:MGI:1289155]
ENSMUSG000000022898	Rod1	0.66	0.00	0.01	-0.29	0.14	1.00	0.06	0.90	1.00	Down syndrome critical region gene 3 [Source:MGI Symbol:Acc:MGI:1206040]
ENSMUSG000000028382	Rod1	0.41	0.00	0.01	-0.09	0.42	1.00	0.02	0.93	1.00	ROD1 regulator of differentiation 1 (S. pombe) [Source:MGI Symbol:Acc:MGI:1923334]
ENSMUSG000000028919	Ahrgef19	0.74	0.00	0.01	-0.38	0.05	0.50	0.19	0.52	1.00	Rho guanine nucleotide exchange factor (GEF) 19 [Source:MGI Symbol:Acc:MGI:1925912]
ENSMUSG00000002895	Scm11	0.64	0.00	0.01	-0.28	0.20	1.00	0.02	1.00	1.00	scab-inhibiting protein 1 [Source:MGI Symbol:Acc:MGI:1322762]
ENSMUSG00000005866	Trnp2	0.98	0.00	0.02	-0.61	0.03	0.36	-0.07	0.90	1.00	TNFAIP3 interacting protein 2 [Source:MGI Symbol:Acc:MGI:2388643]
ENSMUSG000000020592	Sdc1	0.95	0.00	0.02	-0.13	0.73	1.00	-0.10	1.00	1.00	syndecan 1 [Source:MGI Symbol:Acc:MGI:1349162]
ENSMUSG00000026188	Tmem167	0.80	0.00	0.02	-0.06	0.77	1.00	0.31	0.32	1.00	transmembrane protein 169 [Source:MGI Symbol:Acc:MGI:2442781]
ENSMUSG000000051232	Tmem169	0.79	0.00	0.02	-0.47	0.05	0.51	-0.04	1.00	1.00	transmembrane protein 169 [Source:MGI Symbol:Acc:MGI:2144113]
ENSMUSG00000000007	12960	0.67	0.00	0.01	-0.02	0.32	1.00	0.03	0.93	1.00	predicted gene 12960 [Source:MGI Symbol:Acc:MGI:1917939]
ENSMUSG000000043963	2900502L18Rk	1.17	0.00	0.02	-0.22	0.54	1.00	-0.46	0.49	1.00	RIKEN cDNA 2900502L18 gene [Source:MGI Symbol:Acc:MGI:1924085]
ENSMUSG000000054598	913020L23Rk	3.21	0.00	0.02	-0.11	1.00	1.00	0.13	1.00	1.00	RIKEN cDNA 913020L23 gene [Source:MGI Symbol:Acc:MGI:3041166]
ENSMUSG000000071041	Gm15210	0.94	0.00	0.02	-0.62	0.03	0.35	-0.11	0.90	1.00	predicted gene 15210 [Source:MGI Symbol:Acc:MGI:3705743]
ENSMUSG00000002895	Scm11	0.64	0.00	0.01	-0.28	0.20	1.00	-0.15	0.93	1.00	scab-inhibiting protein 1 [Source:MGI Symbol:Acc:MGI:1914648]
ENSMUSG000000022889	Gn2	0.57	0.00	0.02	-0.50	0.00	0.07	0.02	0.94	1.00	guanine nucleotide binding protein-like 2 (nucleolar) [Source:MGI Symbol:Acc:MGI:2385207]
ENSMUSG00000019087	Atp6ap1	0.30	0.00	0.02	-0.18	0.03	0.37	0.00	0.98	1.00	ATPase, H ⁺ transporting, lysosomal accessory protein 1 [Source:MGI Symbol:Acc:MGI:109629]
ENSMUSG000000061787	Rps17	0.29	0.00	0.02	-0.03	0.67	1.00	0.00	1.00	1.00	ribosomal protein S17 [Source:MGI Symbol:Acc:MGI:1309526]
ENSMUSG00000010047	Hya2	0.49	0.00	0.02	-0.13	0.35	1.00	-0.16	0.39	1.00	hyaluronoglucosaminidase 2 [Source:MGI Symbol:Acc:MGI:1196334]
ENSMUSG00000000185	Rps14	0.53	0.00	0.01	-0.02	0.88	1.00	0.07	0.87	1.00	ribosomal protein S14 [Source:MGI Symbol:Acc:MGI:1917801]
ENSMUSG000000008683	Rps15a	0.32	0.00	0.02	-0.11	0.25	1.00	0.01	0.98	1.00	ribosomal protein S15A [Source:MGI Symbol:Acc:MGI:2390991]
ENSMUSG00000021959	Lals2	0.56	0.00	0.02	-0.22	0.18	1.00	0.15	0.45	1.00	large tumor suppressor 2 [Source:MGI Symbol:Acc:MGI:1354386]
ENSMUSG000000063785	Utp14a	0.94	0.00	0.02	-0.61	0.03	0.38	-0.03	1.00	1.00	UTP14, U3 small nuclear ribonucleoprotein, homolog A (yeast) [Source:MGI Symbol:Acc:MGI:1919804]
ENSMUSG000000025880	Smad7	0.72	0.00	0.02	-0.39	0.06	0.59	-0.03	0.92	1.00	SMAD family member 7 [Source:MGI Symbol:Acc:MGI:1100518]
ENSMUSG0000000185	Rps17	0.53	0.00	0.01	-0.02	0.88	1.00	0.07	0.93	1.00	ribosomal protein S17 [Source:MGI Symbol:Acc:MGI:1330694]
ENSMUSG000000024603	Dncx1	0.53	0.00	0.02	-0.13	0.44	1.00	0.11	0.60	1.00	dynactin 4 [Source:MGI Symbol:Acc:MGI:1914915]
ENSMUSG000000002289	Angp4	0.59	0.00	0.02	-0.35	0.04	0.48	-0.57	0.02	1.00	angiotensin-like 4 [Source:MGI Symbol:Acc:MGI:1888999]
ENSMUSG000000038683	PaK1ip1	0.54	0.00	0.02	-0.27	0.09	0.77	0.00	1.00	1.00	PAK1 interacting protein 1 [Source:MGI Symbol:Acc:MGI:1915333]
ENSMUSG000000030499	10006EORk	0.54	0.00	0.02	-0.17	0.47	1.00	0.16	0.70	1.00	RIKEN cDNA 110006E09 gene [Source:MGI Symbol:Acc:MGI:1915251]
ENSMUSG00000000282	Mtg	0.64	0.00	0.02	-0.43	0.03	0.33	-0.29	0.27	1.00	max binding protein [Source:MGI Symbol:Acc:MGI:1091050]
ENSMUSG000000030499	Kctd15	0.89	0.00	0.02	-0.63	0.02	0.30	-0.17	0.71	1.00	potassium channel tetramerisation domain containing 15 [Source:MGI Symbol:Acc:MGI:2385276]
ENSMUSG00000013275	Slc41a1	0.68	0.00	0.02	-0.23	0.28	1.00	0.31	1.00	1.00	solute carrier family 41, member 1 [Source:MGI Symbol:Acc:MGI:2444823]
ENSMUSG000000035640	Smad7	1.01	0.00	0.02	-0.57	0.06	0.61	-0.06	0.90	1.00	downstream of Smk1 [Source:MGI Symbol:Acc:MGI:1354170]
ENSMUSG0000000037235	Mxd4	0.40	0.00	0.02	-0.26	0.02	0.51	-0.03	0.87	1.00	proteasome (prosome, macropain) subunit, alpha type 1 [Source:MGI Symbol:Acc:MGI:1347005]
ENSMUSG000000020287	Mpg	0.74	0.00	0.02	-0.30	0.19	1.00				

ENSMUSG0000024640	Past1	0.82	0.00	0.03	0.22	0.36	1.00	-0.21	0.64	1.00	phosphoserine aminotransferase 1 [Source:MGI Symbol:Acc:MGI:2183441]
ENSMUSG0000029106	Add1	0.31	0.00	0.03	-0.08	0.43	1.00	0.01	0.95	1.00	adducin 1 (alpha) [Source:MGI Symbol:Acc:MGI:87918]
ENSMUSG0000028949	Arpm3	0.45	0.00	0.03	-0.17	0.24	1.00	-0.06	0.74	1.00	secretory carrier membrane protein 3 [Source:MGI Symbol:Acc:MGI:1346346]
ENSMUSG0000023904	Hcd1f1	0.49	0.00	0.03	-0.05	0.77	1.00	0.04	0.85	1.00	host cell factor C1 regulator 1 (XPO1-dependent) [Source:MGI Symbol:Acc:MGI:2663619]
ENSMUSG0000025220	Mgea5	0.35	0.00	0.03	0.01	0.95	1.00	0.11	0.41	1.00	meningioma expressed antigen 5 (hyaluronidase) [Source:MGI Symbol:Acc:MGI:1932139]
ENSMUSG0000039879	Heca	0.62	0.00	0.03	-0.38	0.66	0.56	0.03	1.00	1.00	headcase homolog (Drosophila) [Source:MGI Symbol:Acc:MGI:2685715]
ENSMUSG0000002881	Nab1	0.51	0.00	0.03	-0.19	0.27	1.00	0.06	0.79	1.00	Ngl-A binding protein 1 [Source:MGI Symbol:Acc:MGI:107564]
ENSMUSG0000000000	0000000000	0.00	0.00	0.03	-0.02	0.05	0.48	-0.00	0.98	1.00	phosphatidylinositol 3-kinase-related kinase 3 [Source:MGI Symbol:Acc:MGI:1919160]
ENSMUSG0000078706	Gm633	0.68	0.00	0.03	-0.25	0.26	1.00	-0.23	0.44	1.00	predicted gene 53 [Source:MGI Symbol:Acc:MGI:2684899]
ENSMUSG0000020460	Ros27a	0.27	0.00	0.03	-0.04	0.62	1.00	0.06	0.58	1.00	ribosomal protein S27a [Source:MGI Symbol:Acc:MGI:1925544]
ENSMUSG0000008524	Srhg3	0.97	0.00	0.03	-0.84	0.01	0.14	-0.06	1.00	1.00	small nuclear RNA host gene (non-protein coding) 3 [Source:MGI Symbol:Acc:MGI:2684817]
ENSMUSG0000015714	Rpdc1b	0.00	0.03	0.03	-0.43	0.36	1.00	-0.05	0.75	1.00	phosphoric acid phosphatase type 2 domain containing 18 [Source:MGI Symbol:Acc:MGI:1919160]
ENSMUSG0000003441	Crb3a3	3.03	0.00	0.03	-0.94	1.17	1.00	-0.70	1.00	1.00	cAMP responsive element binding protein 3 like 3 [Source:MGI Symbol:Acc:MGI:2384786]
ENSMUSG00000043716	Rpl7	0.21	0.00	0.03	-0.01	0.89	1.00	-0.02	0.87	1.00	ribosomal protein L7 [Source:MGI Symbol:Acc:MGI:98073]
ENSMUSG0000020782	Lig2	0.37	0.00	0.03	0.13	0.24	1.00	-0.24	0.13	1.00	lethal giant larvae homolog 2 (Drosophila) [Source:MGI Symbol:Acc:MGI:1918843]
ENSMUSG0000003079	Ccm2	0.80	0.00	0.03	-0.39	0.13	0.96	0.02	1.00	1.00	central cavernous malformation 2 [Source:MGI Symbol:Acc:MGI:2384924]
ENSMUSG0000002084	Xpr2	0.28	0.00	0.03	-0.10	0.35	1.00	0.16	0.29	1.00	X-box binding protein 1 [Source:MGI Symbol:Acc:MGI:98970]
ENSMUSG0000024587	Nars	0.36	0.00	0.03	-0.23	0.04	0.46	0.02	0.94	1.00	asparaginyl-tRNA synthetase [Source:MGI Symbol:Acc:MGI:1917473]
ENSMUSG0000027637	1110008F13Rk	0.37	0.00	0.03	-0.13	0.27	1.00	0.02	0.90	1.00	RIKEN cDNA 1110008F13 gene [Source:MGI Symbol:Acc:MGI:1914638]
ENSMUSG0000028451	170002211Rk	0.40	0.00	0.03	-0.26	0.04	0.44	0.06	0.72	1.00	RIKEN cDNA 170002211 gene [Source:MGI Symbol:Acc:MGI:1914567]
ENSMUSG0000020825	Gm7969	0.47	0.00	0.03	0.06	0.68	1.00	0.18	0.92	1.00	predicted gene 7869 [Source:MGI Symbol:Acc:MGI:3644843]
ENSMUSG0000002343	Arms6	1.01	0.00	0.03	-0.39	0.23	1.00	0.03	1.00	1.00	armadillo repeat containing 6 [Source:MGI Symbol:Acc:MGI:1924063]
ENSMUSG0000002506	Zfp217	0.74	0.00	0.03	-0.42	0.07	0.67	0.13	0.69	1.00	zinc finger protein 217 [Source:MGI Symbol:Acc:MGI:2685406]
ENSMUSG0000003585	Sec14i2	1.49	0.00	0.03	-0.39	0.37	1.00	0.07	1.00	1.00	SEC14-like 2 (S. cerevisiae) [Source:MGI Symbol:Acc:MGI:1915065]
ENSMUSG00000096403	AC162391.1	0.58	0.00	0.03	-0.43	0.02	0.30	-0.08	0.75	1.00	Uncharacterized protein [Source:UniProtKB/TrEMBL:Acc:J30K25]
ENSMUSG0000000000	0000000000	0.00	0.00	0.03	-0.06	0.66	1.00	0.01	0.92	1.00	predicted gene 10376 [Source:MGI Symbol:Acc:MGI:3704451]
ENSMUSG00000040945	Rcc2	0.57	0.00	0.03	-0.42	0.02	0.30	0.02	1.00	1.00	regulator of chromosome condensation 2 [Source:MGI Symbol:Acc:MGI:1919784]
ENSMUSG00000032366	Tpm1	0.40	0.00	0.03	-0.28	0.03	0.34	0.11	0.50	1.00	tropomyosin 1, alpha [Source:MGI Symbol:Acc:MGI:98809]
ENSMUSG0000025470	Zfp511	0.95	0.00	0.03	-0.22	0.45	1.00	-0.08	0.89	1.00	zinc finger protein 511 [Source:MGI Symbol:Acc:MGI:1917002]
ENSMUSG00000026343	Nas2	0.78	0.00	0.03	-0.35	0.16	1.00	-0.01	1.00	1.00	N-myristyltransferase 2 [Source:MGI Symbol:Acc:MGI:1922386]
ENSMUSG0000029110	Rn4	0.44	0.00	0.03	-0.29	0.04	0.43	0.07	0.72	1.00	ring finger protein 4 [Source:MGI Symbol:Acc:MGI:1201691]
ENSMUSG00000081434	Gm14165	0.62	0.00	0.03	-0.11	0.57	1.00	0.02	1.00	1.00	predicted gene 14165 [Source:MGI Symbol:Acc:MGI:3650537]
ENSMUSG00000037938	Chcd53	0.90	0.00	0.03	-0.17	0.59	1.00	-0.04	1.00	1.00	coiled-coil-helix-coiled-coil-helix domain containing 5 [Source:MGI Symbol:Acc:MGI:1913420]
ENSMUSG00000032009	Sees3	1.23	0.00	0.03	-0.27	0.56	1.00	0.08	1.00	1.00	sestrin 3 [Source:MGI Symbol:Acc:MGI:1922979]
ENSMUSG0000001857	Kabap	0.26	0.00	0.03	0.06	0.66	1.00	0.01	0.95	1.00	gamma-aminobutyric acid receptor-associated protein [Source:MGI Symbol:Acc:MGI:1861742]
ENSMUSG0000024712	Rikar	0.33	0.00	0.03	-0.01	0.97	1.00	0.08	0.57	1.00	riboflavin kinase [Source:MGI Symbol:Acc:MGI:1914688]
ENSMUSG00000041815	Poldip3	0.48	0.00	0.03	-0.38	0.01	0.20	-0.05	0.85	1.00	polymerase (DNA-directed), delta interacting protein 3 [Source:MGI Symbol:Acc:MGI:1921076]
ENSMUSG00000063467	Rps15	0.29	0.00	0.03	-0.03	0.66	1.00	0.01	0.98	1.00	ribosomal protein S15 [Source:MGI Symbol:Acc:MGI:98117]
ENSMUSG00000019261	Mhafs1	0.87	0.00	0.03	-0.56	0.05	0.52	-0.11	0.90	1.00	microtubule-associated protein 15 [Source:MGI Symbol:Acc:MGI:2443304]
ENSMUSG00000009558	Rrmt1	0.72	0.00	0.03	-0.52	0.02	0.30	0.04	0.97	1.00	RNA (guanine-7) methyltransferase [Source:MGI Symbol:Acc:MGI:1915147]
ENSMUSG00000074227	Spinr2	0.30	0.00	0.03	-0.03	0.76	1.00	-0.03	0.85	1.00	serine protease inhibitor, Kunitz type 2 [Source:MGI Symbol:Acc:MGI:1338031]
ENSMUSG00000026981	Hlfm	3.87	0.00	0.03	-2.35	0.07	0.62	0.25	1.00	1.00	interleukin 1 receptor antagonist [Source:MGI Symbol:Acc:MGI:96547]
ENSMUSG0000003545	Fosb	3.87	0.00	0.03	-2.25	0.07	0.62	0.35	1.00	1.00	FBJ osteosarcoma oncogene B [Source:MGI Symbol:Acc:MGI:96575]
ENSMUSG0000000000	0000000000	0.00	0.00	0.03	-0.32	0.24	0.49	-0.02	0.74	1.00	oxfolin enhancer binding factor 2 [Source:MGI Symbol:Acc:MGI:1915031]
ENSMUSG00000028862	Map3k6	1.67	0.00	0.03	-0.49	0.31	1.00	-0.21	1.00	1.00	mitogen-activated protein kinase kinase kinase 6 [Source:MGI Symbol:Acc:MGI:1855691]
ENSMUSG00000015312	Gadd45b	1.52	0.00	0.03	-0.75	1.00	0.80	-0.19	0.39	1.00	growth arrest and DNA-damage-inducible 45 beta [Source:MGI Symbol:Acc:MGI:107776]
ENSMUSG00000095466	Phk2b	0.40	0.00	0.03	0.12	0.33	1.00	-0.15	1.00	1.00	PTK2 protein tyrosine kinase 2 beta [Source:MGI Symbol:Acc:MGI:104908]
ENSMUSG00000094234	ACT159155.1	0.46	0.00	0.03	0.06	0.68	1.00	0.18	0.33	1.00	0.00
ENSMUSG00000036336	Clnr1	0.45	0.00	0.03	-0.38	0.01	0.15	-0.10	0.61	1.00	chloride channel 7 [Source:MGI Symbol:Acc:MGI:1347048]
ENSMUSG00000034297	Medf13	0.40	0.00	0.03	-0.25	0.05	0.51	0.42	0.01	1.00	mediator complex subunit 13 [Source:MGI Symbol:Acc:MGI:3029632]
ENSMUSG00000019487	Tripp10	0.62	0.00	0.03	-0.21	0.31	1.00	0.10	0.73	1.00	thyroid hormone receptor interactor 10 [Source:MGI Symbol:Acc:MGI:2146901]
ENSMUSG00000039501	Zhrf1	0.41	0.00	0.03	-0.22	0.10	0.83	0.02	0.96	1.00	zinc finger, NFX1-type containing 1 [Source:MGI Symbol:Acc:MGI:2138982]
ENSMUSG0000000000	0000000000	0.00	0.00	0.03	-0.42	0.15	1.00	0.04	0.90	1.00	coiled-coil factor 1 [Source:MGI Symbol:Acc:MGI:1919101]
ENSMUSG0000003406	Tmed5	0.60	0.00	0.03	-0.32	1.00	0.83	0.11	0.69	1.00	transmembrane emp24 protein transport domain containing 5 [Source:MGI Symbol:Acc:MGI:1921586]
ENSMUSG00000044783	Hjup	0.54	0.00	0.03	-0.33	0.06	0.60	-0.23	0.35	1.00	Holliday junction recognition protein [Source:MGI Symbol:Acc:MGI:2685821]
ENSMUSG00000019979	Apd1	0.91	0.00	0.03	-0.28	0.32	1.00	0.22	0.62	1.00	apoptotic peptidase activating factor 1 [Source:MGI Symbol:Acc:MGI:1306796]
ENSMUSG0000000000	0000000000	0.00	0.00	0.03	-0.06	0.44	1.00	-0.03	0.71	1.00	CD2 antigen (cytoplasmic tail) binding factor 2 [Source:MGI Symbol:Acc:MGI:102611]
ENSMUSG00000017999	Ddnq7	0.57	0.00	0.03	-0.37	0.05	0.54	0.01	1.00	1.00	DEAD (Asp-Glu-Ala-Asp) box polypeptide 27 [Source:MGI Symbol:Acc:MGI:2385884]
ENSMUSG0000026922	Agpat2	0.62	0.00	0.03	-0.01	1.00	1.00	0.04	0.93	1.00	1-acylglycerol-3-phosphate O-acyltransferase 2 (lysophosphatidic acid acyltransferase, beta) [Source:MGI Symbol:Acc:MGI:1914762]
ENSMUSG00000044573	Acpl1	0.47	0.00	0.03	-0.12	0.44	1.00	0.14	0.45	1.00	acid phosphatase 1, soluble [Source:MGI Symbol:Acc:MGI:87881]
ENSMUSG00000048946	Tcd2	0.48	0.00	0.03	-0.21	0.17	1.00	-0.18	0.94	1.00	transducer of ERBB2, 2 [Source:MGI Symbol:Acc:MGI:1888525]
ENSMUSG0000000000	0000000000	0.00	0.00	0.03	-0.06	0.59	1.00	0.01	0.95	1.00	transmembrane ATAD2-interacting protein 1 (bestatinin, homolog 1) [Source:MGI Symbol:Acc:MGI:1926379]
ENSMUSG00000009681	Rps19-ps1	0.55	0.00	0.03	-0.04	0.86	1.00	-0.02	0.40	1.00	ribosomal protein S19, pseudogene 1 [Source:MGI Symbol:Acc:MGI:3782508]
ENSMUSG00000094974	Rps19-ps2	0.55	0.00	0.03	-0.04	0.86	1.00	-0.02	0.94	1.00	ribosomal protein S19, pseudogene 2 [Source:MGI Symbol:Acc:MGI:3647073]
ENSMUSG00000005732	Ranbp1	0.60	0.00	0.03	-0.46	0.02	0.30	0.06	0.87	1.00	RAN binding protein 1 [Source:MGI Symbol:Acc:MGI:96269]
ENSMUSG00000074802	Casr23	0.66	0.00	0.03	-0.39	0.07	0.62	0.22	0.44	1.00	growth arrest-specific 2 like 3 [Source:MGI Symbol:Acc:MGI:1918780]
ENSMUSG0000000000	0000000000	0.00	0.00	0.03	-0.24	0.23	0.01	-0.07	0.72	1.00	DEAD (Asp-Glu-Ala-Asp) box polypeptide 19b [Source:MGI Symbol:Acc:MGI:2148251]
ENSMUSG00000042502	Cd2bp2	0.47	0.00	0.03	-0.28	0.06	0.56	-0.09	1.00	1.00	CD2 antigen (cytoplasmic tail) binding protein 2 [Source:MGI Symbol:Acc:MGI:1917483]
ENSMUSG00000022568	Scrb	0.46	0.00	0.03	-0.20	0.18	1.00	0.02	1.00	1.00	scrubbed homolog (Drosophila) [Source:MGI Symbol:Acc:MGI:2145950]
ENSMUSG00000070997	Ubp3	0.67	0.00	0.03	-0.30	0.17	1.00	0.12	0.71	1.00	UTP3, small subunit (SSU) processome component, homolog (S. cerevisiae) [Source:MGI Symbol:Acc:MGI:1919230]
ENSMUSG0000000000	0000000000	0.00	0.00	0.03	-0.33	0.16	0.08	-0.20	0.43	1.00	transmembrane and extracellular repeat containing protein 1 [Source:MGI Symbol:Acc:MGI:3036255]
ENSMUSG00000028954	Nub1	0.45	0.00	0.03	-0.27	0.67	0.57	-0.02	0.95	1.00	negative regulator of ubiquitin-like proteins 1 [Source:MGI Symbol:Acc:MGI:1889001]
ENSMUSG00000037993	Dhx38	0.58	0.00	0.03	-0.26	0.16	1.00	-0.01	1.00	1.00	DEAH (Asp-Glu-Ala-His) box polypeptide 38 [Source:MGI Symbol:Acc:MGI:1927617]
ENSMUSG00000034854	Msf2i2	0.79	0.00	0.03	-0.22	0.41	1.00	-0.09	0.82	1.00	major facilitator superfamily domain containing 12 [Source:MGI Symbol:Acc:MGI:3604804]
ENSMUSG00000018648	Rps1	0.48	0.00	0.03	-0.37	0.02	0.31	-0.07	0.75	1.00	arylnyl-RNA synthetase [Source:MGI Symbol:Acc:MGI:1914297]
ENSMUSG00000029622	Arpc1b	0.76	0.00	0.03	-0.35	0.03	0.49	-0.03	0.93	1.00	actin related protein 2/3 complex, subunit 18 [Source:MGI Symbol:Acc:MGI:1343142]
ENSMUSG00000054484	Tmem62	0.76	0.00	0.03	-0.20	0.39	1.00	0.06	0.92	1.00	transmembrane protein 62 [Source:MGI Symbol:Acc:MGI:2139461]
ENSMUSG00000044629	Scnd1	0.44	0.00	0.03	-0.13	0.37	1.00	0.08	0.67	1.00	SCAN domain-containing 1 [Source:MGI Symbol:Acc:MGI:1343132]
ENSMUSG00000023277	Twf2	0.82	0.00	0.03	-0.30	0.33	1.00	-0.10	1.00	1.00	twirlin, actin-binding protein, homolog 2 (Drosophila) [Source:MGI Symbol:Acc:MGI:1346078]
ENSMUSG00000019755	Rpd3	1.58	0.00	0.03	-0.32	0.05	0.54	-0.01	0.90	1.00	BTE (PRZ) domain containing 19 [Source:MGI Symbol:Acc:MGI:1925861]
ENSMUSG00000042659	Ard4c	0.88	0.00	0.03	-0.31	0.26	1.00	-0.18	0.72	1.00	arrestin domain containing 4 [Source:MGI Symbol:Acc:MGI:1913862]
ENSMUSG00000044254	Pcsk9	1.21	0.00	0.03	-1.03	0.01	0.15	-0.10	1.00	1.00	proprotein convertase subtilisin/kexin type 9 [Source:MGI Symbol:Acc:MGI:2142060]
ENSMUSG00000046807	Ai646023	1.16	0.00	0.03	-0.42	0.28	1.00	-0.22	0.85	1.00	expressed sequence AI646023 [Source:MGI Symbol:Acc:MGI:2143657]
ENSMUSG00000024209	Dyrk1	0.52	0.00	0.03	-0.24	0.23	0.01	-0.07	0.28	1.00	dual-specificity tyrosine-(Y)-phosphorylation regulator 1 [Source:MGI Symbol:Acc:MGI:1330302]
ENSMUSG00000089607	Rtld13	1.30	0.00	0.03	-0.23	0.55	1.00	-0.16	0.84	1.00	tumor necrosis factor receptor superfamily

ENSMUSG00000028086	Fbxw7	0.84	0.01	0.04	-0.32	0.25	1.00	0.08	0.90	1.00	F-box and WD-40 domain protein 7 [Source:MGI Symbol:Acc:MGI:1354695]
ENSMUSG00000034817	Mtrr	0.90	0.01	0.04	-0.51	0.10	0.84	0.18	0.79	1.00	5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Source:MGI Symbol:Acc:MGI:1891037]
ENSMUSG00000029175	4930471M23Rk	0.63	0.01	0.04	-0.53	0.02	0.22	-0.07	0.85	1.00	RIKEN cDNA 4930471M23 gene [Source:MGI Symbol:Acc:MGI:1922169]
ENSMUSG00000025995	Wdr75	0.71	0.01	0.04	-0.51	0.04	0.46	0.07	0.84	1.00	WD repeat domain 75 [Source:MGI Symbol:Acc:MGI:1920924]
ENSMUSG00000029726	Mepce	0.47	0.01	0.04	-0.29	0.07	0.65	-0.07	0.79	1.00	methylphosphate capping enzyme [Source:MGI Symbol:Acc:MGI:106477]
ENSMUSG00000063659	Zfp238	0.50	0.01	0.04	0.01	1.00	1.00	0.00	1.00	1.00	zinc finger protein 238 [Source:MGI Symbol:Acc:MGI:1353609]
ENSMUSG00000027245	Z310003F16Rik	0.42	0.01	0.04	-0.05	0.72	1.00	0.13	0.50	1.00	RIKEN cDNA Z310003F16 gene [Source:MGI Symbol:Acc:MGI:1914943]
ENSMUSG00000004737	Gm17045	0.66	0.01	0.04	-0.13	0.57	1.00	0.06	0.93	1.00	predicted gene 17045 [Source:MGI Symbol:Acc:MGI:4037872]
ENSMUSG00000034274	Thoc5	0.69	0.01	0.04	-0.34	0.17	1.00	-0.07	0.84	1.00	THO complex 5 [Source:MGI Symbol:Acc:MGI:1351333]
ENSMUSG00000020536	Lig1	0.66	0.01	0.04	-0.43	0.07	0.63	-0.14	0.62	1.00	lethal giant larvae homolog 1 (Drosophila) [Source:MGI Symbol:Acc:MGI:102682]
ENSMUSG00000018509	Cenpv	0.75	0.01	0.04	-0.32	0.24	1.00	-0.20	0.64	1.00	centromere protein V [Source:MGI Symbol:Acc:MGI:1920389]
ENSMUSG0000002157	I289a	1.10	0.01	0.04	-0.68	0.07	0.66	-0.31	0.72	1.00	interleukin 28 receptor alpha [Source:MGI Symbol:Acc:MGI:2429859]
ENSMUSG00000040054	Baz2a	0.37	0.01	0.04	-0.21	0.09	0.75	0.04	0.83	1.00	bromodomain adjacent to zinc finger domain, 2A [Source:MGI Symbol:Acc:MGI:2151152]
ENSMUSG00000030533	Unc45a	0.46	0.01	0.04	-0.19	0.25	1.00	-0.01	1.00	1.00	unc-45 homolog A (C. elegans) [Source:MGI Symbol:Acc:MGI:2142246]
ENSMUSG00000076431	Sax4	0.80	0.01	0.04	-0.31	0.26	1.00	0.01	1.00	1.00	SRY-box containing gene 4 [Source:MGI Symbol:Acc:MGI:98366]
ENSMUSG00000063953	Amc2	0.46	0.01	0.05	-0.39	0.01	0.20	0.04	0.90	1.00	S-adenosylmethionine decarboxylase 2 [Source:MGI Symbol:Acc:MGI:1333111]
ENSMUSG00000026195	Zfp142	0.69	0.01	0.05	-0.45	0.06	0.61	0.05	0.92	1.00	zinc finger protein 142 [Source:MGI Symbol:Acc:MGI:1924514]
ENSMUSG00000022512	Cldn1	0.58	0.01	0.05	0.00	1.00	1.00	-0.57	0.04	1.00	claudin 1 [Source:MGI Symbol:Acc:MGI:1276109]
ENSMUSG00000031226	2610029G23Rk	0.81	0.01	0.05	-0.37	0.16	1.00	0.03	1.00	1.00	RIKEN cDNA 2610029G23 gene [Source:MGI Symbol:Acc:MGI:1914933]
ENSMUSG00000062895	Rpsa-ps9	0.59	0.01	0.05	-0.16	0.46	1.00	-0.06	0.93	1.00	ribosomal protein SA, pseudogene 9 [Source:MGI Symbol:Acc:MGI:3650393]
ENSMUSG00000077709	Srae64	0.41	0.01	0.05	-0.02	0.93	1.00	0.11	0.56	1.00	small nuclear RNA, H/ACA box 64 [Source:MGI Symbol:Acc:MGI:2148175]
ENSMUSG00000069270	Hist1H2ac	1.26	0.01	0.05	-0.60	0.16	1.00	-0.09	1.00	1.00	histone cluster 1, H2ac [Source:MGI Symbol:Acc:MGI:2448287]
ENSMUSG00000094388	Gm8783	1.89	0.01	0.05	-1.07	0.09	0.74	0.32	1.00	1.00	predicted pseudogene 8783 [Source:MGI Symbol:Acc:MGI:3646027]
ENSMUSG00000096592	Gm15801	1.85	0.01	0.05	-1.04	0.09	0.74	0.33	0.75	1.00	predicted gene 15801 [Source:MGI Symbol:Acc:MGI:3779625]
ENSMUSG00000004085	B230120H23Rk	0.88	0.01	0.05	0.14	0.66	1.00	-0.03	1.00	1.00	RIKEN cDNA B230120H23 gene [Source:MGI Symbol:Acc:MGI:2443258]
ENSMUSG00000004103	1700047117Rk2	1.06	0.01	0.05	-0.31	0.39	1.00	0.20	0.76	1.00	RIKEN cDNA 1700047117 gene 2 [Source:MGI Symbol:Acc:MGI:3714351]
ENSMUSG000000052415	Tchh	0.72	0.01	0.05	-0.29	0.23	1.00	0.06	0.92	1.00	trichohyalin [Source:MGI Symbol:Acc:MGI:2177944]
ENSMUSG00000030281	Il17c	0.69	0.01	0.05	-0.01	1.00	1.00	0.10	0.76	1.00	interleukin 17 receptor C [Source:MGI Symbol:Acc:MGI:2159336]
ENSMUSG00000021009	Ptpn21	0.57	0.01	0.05	-0.20	0.33	1.00	0.11	0.68	1.00	protein tyrosine phosphatase, non-receptor type 21 [Source:MGI Symbol:Acc:MGI:1344406]
ENSMUSG00000080902	Gm11226	0.57	0.01	0.05	-0.17	0.40	1.00	0.17	0.52	1.00	predicted gene 11226 [Source:MGI Symbol:Acc:MGI:3650241]
ENSMUSG00000049354	Dca77	0.42	0.01	0.05	-0.19	0.19	1.00	0.05	0.83	1.00	DOB1 and CUL4 associated factor 7 [Source:MGI Symbol:Acc:MGI:1919083]
ENSMUSG00000052429	Prrm1	0.55	0.01	0.05	-0.26	0.19	1.00	-0.05	0.87	1.00	protein arginine N-methyltransferase 1 [Source:MGI Symbol:Acc:MGI:107846]
ENSMUSG00000037960	1110007C09Rk	0.79	0.01	0.05	-0.34	0.22	1.00	-0.09	0.81	1.00	RIKEN cDNA 1110007C09 gene [Source:MGI Symbol:Acc:MGI:1915730]
ENSMUSG00000036151	Tmb82	1.01	0.01	0.05	0.22	0.45	1.00	-0.08	1.00	1.00	transmembrane 6 superfamily member 2 [Source:MGI Symbol:Acc:MGI:1933210]

Sup. Table 1 SET II

ENSEMBL	Symbol	CP versus Sal			CP versus CP+DCA			DCA versus Sal			
		logFC	PValue	FDR	logFC	PValue	FDR	logFC	PValue	FDR	
ENSMUSG0000065892	U6	5.08	0.00	0.00	-3.88	0.00	0.02	1.00	1.00	1.00	U6 spliceosomal RNA [Source:RFAM:Acc:RF000026]
ENSMUSG0000024912	Fosl1	4.35	0.00	0.00	-3.39	0.00	0.00	-0.19	1.00	1.00	fos-like antigen 1 [Source:MGI Symbol:Acc:MGI:107179]
ENSMUSG0000044444	Olfrl442	4.26	0.00	0.01	-3.37	0.00	0.01	0.49	1.00	1.00	olfactory receptor 1442 [Source:MGI Symbol:Acc:MGI:3031276]
ENSMUSG0000035775	Krt20	7.52	0.00	0.00	-3.27	0.00	0.00	0.60	1.00	1.00	keratin 20 [Source:MGI Symbol:Acc:MGI:1914059]
ENSMUSG0000045030	Olfrl443	3.46	0.00	0.01	-2.89	0.00	0.03	0.51	1.00	1.00	olfactory receptor 1443 [Source:MGI Symbol:Acc:MGI:3031277]
ENSMUSG0000018774	Cd68	3.96	0.00	0.00	-2.77	0.00	0.00	-0.19	1.00	1.00	CD68 antigen [Source:MGI Symbol:Acc:MGI:88342]
ENSMUSG0000034855	Cxcl10	3.74	0.00	0.00	-2.52	0.00	0.00	0.11	1.00	1.00	chemokine (C-X-C motif) ligand 10 [Source:MGI Symbol:Acc:MGI:1352450]
ENSMUSG0000008711	Gm11714	2.35	0.00	0.02	-2.49	0.00	0.03	-0.44	1.00	1.00	predicted gene 11714 [Source:MGI Symbol:Acc:MGI:3649214]
ENSMUSG0000038414	Egr1	4.08	0.00	0.00	-2.36	0.00	0.00	-0.26	1.00	1.00	early growth response 1 [Source:MGI Symbol:Acc:MGI:95295]
ENSMUSG0000050355	Spr1a	2.21	0.00	0.00	-2.29	0.00	0.00	-0.21	1.00	1.00	small proline-rich protein 1A [Source:MGI Symbol:Acc:MGI:106660]
ENSMUSG0000047281	Sfr	3.64	0.00	0.00	-2.28	0.00	0.00	-0.28	1.00	1.00	stratfin [Source:MGI Symbol:Acc:MGI:1891831]
ENSMUSG0000028885	Smpd3b	4.82	0.00	0.00	-2.25	0.00	0.00	0.13	1.00	1.00	sphingomyelin phosphodiesterase, acid-like 3B [Source:MGI Symbol:Acc:MGI:1916022]
ENSMUSG0000026526	Af3	3.86	0.00	0.00	-2.08	0.00	0.00	0.26	1.00	1.00	activating transcription factor 3 [Source:MGI Symbol:Acc:MGI:109384]
ENSMUSG0000029382	Cxcl1	5.49	0.00	0.00	-2.02	0.00	0.00	0.48	1.00	1.00	chemokine (C-X-C motif) ligand 1 [Source:MGI Symbol:Acc:MGI:108068]
ENSMUSG0000034223	Foxj1	5.19	0.00	0.00	-1.98	0.00	0.00	-0.25	1.00	1.00	forkhead box J1 [Source:MGI Symbol:Acc:MGI:1347474]
ENSMUSG0000019577	Pdk4	3.21	0.00	0.00	-1.96	0.00	0.00	-0.47	0.25	1.00	pyruvate dehydrogenase kinase, isoenzyme 4 [Source:MGI Symbol:Acc:MGI:1351481]
ENSMUSG0000031271	SerpinA7	5.69	0.00	0.00	-1.95	0.00	0.00	-0.05	1.00	1.00	serine (or cysteine) peptidase inhibitor, clade A (alpha-1 antiprotease, antitrypsin), member 7 [Source:MGI Symbol:Acc:MGI:3041197]
ENSMUSG0000028494	Pln2	4.74	0.00	0.00	-1.87	0.00	0.00	-0.06	0.91	1.00	perlepin 2 [Source:MGI Symbol:Acc:MGI:87920]
ENSMUSG0000041827	Oasl1	3.87	0.00	0.00	-1.81	0.00	0.00	-0.20	1.00	1.00	2'-5' oligoadenylate synthetase-like 1 [Source:MGI Symbol:Acc:MGI:2180849]
ENSMUSG0000042622	Maff	3.72	0.00	0.00	-1.77	0.00	0.00	-0.12	1.00	1.00	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein F (avian) [Source:MGI Symbol:Acc:MGI:96910]
ENSMUSG0000022346	Myc	2.95	0.00	0.00	-1.61	0.00	0.00	-0.30	0.82	1.00	myelocytomatosis oncogene [Source:MGI Symbol:Acc:MGI:97250]
ENSMUSG0000052837	Junb	3.06	0.00	0.00	-1.61	0.00	0.00	-0.29	1.00	1.00	Jun-B oncogene [Source:MGI Symbol:Acc:MGI:96647]
ENSMUSG0000034765	Dusp5	2.41	0.00	0.00	-1.59	0.00	0.03	-0.38	1.00	1.00	dual specificity phosphatase 5 [Source:MGI Symbol:Acc:MGI:2685183]
ENSMUSG0000024521	Pmpa1	2.43	0.00	0.00	-1.59	0.00	0.00	-0.02	1.00	1.00	phorbol-12-myristate-13-acetate-induced protein 1 [Source:MGI Symbol:Acc:MGI:1931046]
ENSMUSG0000005413	Hmox1	2.89	0.00	0.00	-1.59	0.00	0.00	0.09	0.77	1.00	heme oxygenase (decycling) 1 [Source:MGI Symbol:Acc:MGI:96163]
ENSMUSG0000006445	Epha2	2.21	0.00	0.00	-1.56	0.00	0.00	-0.24	0.72	1.00	Eph receptor A2 [Source:MGI Symbol:Acc:MGI:95278]
ENSMUSG0000027171	Prrg4	3.53	0.00	0.00	-1.56	0.00	0.01	-0.26	1.00	1.00	proline rich G1a (G-carboxyglutamic acid) 4 (transmembrane) [Source:MGI Symbol:Acc:MGI:2442211]
ENSMUSG0000016235	Lornf3	2.42	0.00	0.00	-1.55	0.00	0.00	0.20	0.81	1.00	LON peptidase N-terminal domain and ring finger 3 [Source:MGI Symbol:Acc:MGI:1921615]
ENSMUSG0000023905	Tnfrsf12a	4.05	0.00	0.00	-1.51	0.00	0.00	0.27	0.50	1.00	tumor necrosis factor receptor superfamily, member 12a [Source:MGI Symbol:Acc:MGI:1351484]
ENSMUSG0000020422	Btg2	3.83	0.00	0.00	-1.49	0.00	0.00	-0.13	1.00	1.00	B cell translocation gene 2, anti-proliferative [Source:MGI Symbol:Acc:MGI:108384]
ENSMUSG0000044436	R30305J03Rik	3.41	0.00	0.00	-1.47	0.00	0.00	-0.05	1.00	1.00	RIKEN cDNA B430305J03 gene [Source:MGI Symbol:Acc:MGI:3697707]
ENSMUSG0000033802	Srxn1	2.63	0.00	0.00	-1.44	0.00	0.00	-0.14	0.49	1.00	sulfiredoxin 1 homolog (S. carvisiae) [Source:MGI Symbol:Acc:MGI:1049711]
ENSMUSG0000036894	Rap2b	3.37	0.00	0.00	-1.44	0.00	0.00	0.02	1.00	1.00	RAP2B, member of RAS oncogene family [Source:MGI Symbol:Acc:MGI:1921262]
ENSMUSG0000028688	Pk3	2.35	0.00	0.00	-1.44	0.00	0.00	-0.31	0.49	1.00	polo-like kinase 3 [Source:MGI Symbol:Acc:MGI:109604]
ENSMUSG0000016271	Irfd1	2.08	0.00	0.00	-1.41	0.00	0.00	0.08	0.83	1.00	interferon-related developmental regulator 1 [Source:MGI Symbol:Acc:MGI:1316717]
ENSMUSG0000020205	Phlda1	1.82	0.00	0.00	-1.38	0.00	0.00	0.11	1.00	1.00	pleckstrin homology-like domain, family A, member 1 [Source:MGI Symbol:Acc:MGI:1096880]
ENSMUSG0000091747	D17H6S56E-5	2.46	0.00	0.00	-1.35	0.00	0.00	0.24	0.64	1.00	DNA segment, Chr 17, human D6S56E 5 [Source:MGI Symbol:Acc:MGI:1306799]
ENSMUSG0000046223	Plaur	1.89	0.00	0.00	-1.33	0.00	0.03	-0.03	1.00	1.00	plasminogen activator, urokinase receptor [Source:MGI Symbol:Acc:MGI:97612]
ENSMUSG0000047061	Gm9817	2.32	0.00	0.00	-1.33	0.00	0.03	0.01	1.00	1.00	predicted gene 9817 [Source:MGI Symbol:Acc:MGI:3809102]
ENSMUSG0000040511	Pvr	2.03	0.00	0.00	-1.32	0.00	0.00	0.03	1.00	1.00	polarized virus receptor [Source:MGI Symbol:Acc:MGI:107741]
ENSMUSG0000056745	Nfii3	2.18	0.00	0.00	-1.32	0.00	0.04	0.66	0.36	1.00	nuclear factor, interleukin 3, regulated [Source:MGI Symbol:Acc:MGI:109495]
ENSMUSG0000037887	Dusp8	2.59	0.00	0.00	-1.31	0.00	0.01	0.16	1.00	1.00	dual specificity phosphatase 8 [Source:MGI Symbol:Acc:MGI:106626]
ENSMUSG0000028001	Fga	2.54	0.00	0.00	-1.30	0.00	0.00	-0.16	0.72	1.00	fibrinogen alpha chain [Source:MGI Symbol:Acc:MGI:1316726]
ENSMUSG0000078915	Hsp25-ps1	2.28	0.00	0.00	-1.25	0.00	0.02	0.04	1.00	1.00	heat shock protein 25, pseudogene 1 [Source:MGI Symbol:Acc:MGI:96241]
ENSMUSG0000096925	mmu-mir-29b-2	1.28	0.00	0.00	-1.24	0.00	0.00	-0.06	0.82	1.00	mmu-mir-29b-2 [Source:miRBase:Acc:MI0000712]
ENSMUSG0000074796	Slc4a11	1.65	0.00	0.00	-1.22	0.00	0.00	-0.35	0.19	1.00	solute carrier family 4, sodium bicarbonate transporter-like, member 11 [Source:MGI Symbol:Acc:MGI:2138987]
ENSMUSG0000097877	R1	3.38	0.00	0.00	-1.22	0.00	0.00	0.05	0.84	1.00	
ENSMUSG0000030283	Btc3	3.97	0.00	0.00	-1.22	0.00	0.00	-0.14	1.00	1.00	BCL2 binding component 3 [Source:MGI Symbol:Acc:MGI:2181667]
ENSMUSG0000000078	Klf6	2.34	0.00	0.00	-1.21	0.00	0.00	0.09	0.80	1.00	Kruppel-like factor 6 [Source:MGI Symbol:Acc:MGI:1346318]
ENSMUSG0000074183	Gsta1	3.46	0.00	0.00	-1.19	0.00	0.00	-0.36	0.53	1.00	glutathione S-transferase, alpha 1 (Ya) [Source:MGI Symbol:Acc:MGI:1095417]
ENSMUSG0000025225	Nrk2b	2.20	0.00	0.00	-1.17	0.00	0.00	-0.08	0.92	1.00	nuclear factor of kappa light polypeptide gene enhancer in B cells 2, p49/p100 [Source:MGI Symbol:Acc:MGI:1098800]
ENSMUSG0000049511	Hspb1	2.21	0.00	0.00	-1.17	0.00	0.00	0.07	1.00	1.00	heat shock protein 1 [Source:MGI Symbol:Acc:MGI:96240]
ENSMUSG0000052684	Jun	2.43	0.00	0.00	-1.16	0.00	0.00	0.10	0.78	1.00	Jun oncogene [Source:MGI Symbol:Acc:MGI:96646]
ENSMUSG0000053746	Pth1	3.00	0.00	0.00	-1.16	0.00	0.01	0.13	1.00	1.00	peptidyl-RNA hydrolase 1 homolog (S. cerevisiae) [Source:MGI Symbol:Acc:MGI:1913779]
ENSMUSG0000040485	Pdgfrb	1.44	0.00	0.00	-1.15	0.00	0.00	-0.22	0.59	1.00	platelet derived growth factor, B polypeptide [Source:MGI Symbol:Acc:MGI:97528]
ENSMUSG0000053175	Bcl3	2.22	0.00	0.00	-1.15	0.00	0.00	0.09	1.00	1.00	B cell leukemia/lymphoma 3 [Source:MGI Symbol:Acc:MGI:88140]
ENSMUSG0000030772	Ckap2	4.98	0.00	0.00	-1.15	0.00	0.02	-0.09	1.00	1.00	cytoskeleton associated protein 2 [Source:MGI Symbol:Acc:MGI:1931797]
ENSMUSG0000056501	Cebp3	2.24	0.00	0.00	-1.14	0.00	0.00	-0.28	0.51	1.00	CCAAT/enhancer binding protein (C/EBP), beta [Source:MGI Symbol:Acc:MGI:88373]
ENSMUSG0000023067	Cdkn1a	6.63	0.00	0.00	-1.13	0.00	0.00	-0.48	0.63	1.00	cyclin-dependent kinase inhibitor 1A (P21) [Source:MGI Symbol:Acc:MGI:104556]
ENSMUSG0000042041	2010003K11Rik	3.25	0.00	0.00	-1.12	0.00	0.01	-0.66	0.75	1.00	RIKEN cDNA 2010003K11 gene [Source:MGI Symbol:Acc:MGI:1917111]
ENSMUSG0000051435	Cd14	2.30	0.00	0.00	-1.12	0.00	0.01	-0.13	1.00	1.00	CD14 antigen [Source:MGI Symbol:Acc:MGI:88318]
ENSMUSG0000022895	Adamts1	1.45	0.00	0.00	-1.09	0.00	0.00	0.25	0.17	1.00	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 1 [Source:MGI Symbol:Acc:MGI:109249]
ENSMUSG0000044456	Csm2	2.25	0.00	0.00	-1.08	0.00	0.00	0.05	1.00	1.00	cysteine-serine-rich nuclear protein 2 [Source:MGI Symbol:Acc:MGI:2368652]
ENSMUSG0000048711	Hmgaa1	1.49	0.00	0.00	-1.08	0.00	0.00	-0.06	1.00	1.00	high mobility group AT-hook 1 [Source:MGI Symbol:Acc:MGI:96160]
ENSMUSG0000049558	Tsku	0.99	0.00	0.00	-1.08	0.00	0.00	-0.03	1.00	1.00	tsukushi [Source:MGI Symbol:Acc:MGI:2443855]
ENSMUSG0000078245	Hmgaa1-rs1	1.47	0.00	0.00	-1.08	0.00	0.00	-0.07	0.90	1.00	high mobility group AT-hook 1, related sequence 1 [Source:MGI Symbol:Acc:MGI:96161]
ENSMUSG0000040663	Ctcf1	2.26	0.00	0.00	-1.07	0.00	0.00	-0.22	0.86	1.00	cardiotrophin-like cytokine factor 1 [Source:MGI Symbol:Acc:MGI:1930088]
ENSMUSG0000090634	Gm8126	3.12	0.00	0.00	-1.07	0.00	0.02	0.07	1.00	1.00	predicted gene 8126 [Source:MGI Symbol:Acc:MGI:3646861]
ENSMUSG0000019852	Tnfrsf3	1.89	0.00	0.00	-1.06	0.00	0.02	0.01	1.00	1.00	tumor necrosis factor, alpha-induced protein 3 [Source:MGI Symbol:Acc:MGI:1196377]
ENSMUSG0000047407	Tgfr1	1.66	0.00	0.00	-1.05	0.00	0.00	-0.16	0.72	1.00	TGF-beta-induced factor homeobox 1 [Source:MGI Symbol:Acc:MGI:1194497]
ENSMUSG0000038508	Gdf15	4.82	0.00	0.00	-1.05	0.00	0.00	-0.02	1.00	1.00	growth differentiation factor 15 [Source:MGI Symbol:Acc:MGI:1346047]
ENSMUSG0000014595	Csf1	1.48	0.00	0.00	-1.04	0.00	0.03	-0.02	1.00	1.00	colony stimulating factor 1 (macrophage) [Source:MGI Symbol:Acc:MGI:1339753]
ENSMUSG000001473	Tubb6	2.80	0.00	0.00	-1.04	0.00	0.00	0.07	1.00	1.00	tubulin, beta 6 class V [Source:MGI Symbol:Acc:MGI:1915201]
ENSMUSG0000053566	Ier2	1.82	0.00	0.00	-1.04	0.00	0.00	-0.12	0.88	1.00	immediate early response 2 [Source:MGI Symbol:Acc:MGI:104815]
ENSMUSG0000041605	5730559C18Rik	2.71	0.00	0.00	-1.04	0.00	0.00	-0.15	0.77	1.00	RIKEN cDNA 5730559C18 gene [Source:MGI Symbol:Acc:MGI:1921579]
ENSMUSG0000035356	Nrk1b	2.08	0.00	0.00	-1.03	0.00	0.00	-0.21	0.61	1.00	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, zeta [Source:MGI Symbol:Acc:MGI:1931595]
ENSMUSG0000060515	Tor3a	1.54	0.00	0.00	-1.03	0.00	0.00	-0			

ENSMUSG0000036057	Ptpn23	1.42	0.00	0.00	-0.85	0.00	0.00	-0.03	0.96	1.00	protein tyrosine phosphatase, non-receptor type 23 [Source:MGI Symbol:Acc:MGI:2144837]
ENSMUSG0000026064	Ptp4b1	1.74	0.00	0.00	-0.85	0.00	0.00	0.11	0.54	1.00	protein tyrosine phosphatase 4a1 [Source:MGI Symbol:Acc:MGI:1277096]
ENSMUSG0000020086	Rhbfd2	2.33	0.00	0.00	-0.85	0.00	0.00	-0.11	0.78	1.00	rhomboid 5 homolog 2 (Drosophila) [Source:MGI Symbol:Acc:MGI:2442473]
ENSMUSG000003554	Gc	4.15	0.00	0.00	-0.85	0.00	0.00	-0.61	0.12	1.00	group specific component [Source:MGI Symbol:Acc:MGI:95669]
ENSMUSG0000004043	Stat3	1.63	0.00	0.00	-0.84	0.00	0.00	-0.07	0.77	1.00	signal transducer and activator of transcription 3 [Source:MGI Symbol:Acc:MGI:103038]
ENSMUSG0000008752	9830144P21.2	2.20	0.00	0.00	-0.84	0.00	0.02	0.14	0.87	1.00	RIKEN cDNA 9830144P21 gene [Source:MGI Symbol:Acc:MGI:3041171]
ENSMUSG0000026596	Abi2	1.34	0.00	0.00	-0.83	0.00	0.00	0.15	0.66	1.00	v-abl Abelson murine leukemia viral oncogene 2 (arg. Abelson-related gene) [Source:MGI Symbol:Acc:MGI:87860]
ENSMUSG0000028195	Cyrf1	2.81	0.00	0.00	-0.81	0.00	0.00	0.32	0.33	1.00	cysteine rich protein 61 [Source:MGI Symbol:Acc:MGI:88613]
ENSMUSG0000011089	E03R3.0	1.30	0.00	0.00	-0.81	0.00	0.00	-0.15	0.68	1.00	RIKEN cDNA 241009E03 gene [Source:MGI Symbol:Acc:MGI:1920942]
ENSMUSG0000020105	Dld4	1.71	0.00	0.00	-0.80	0.00	0.00	0.40	0.18	1.00	DNA-damage-inducible transcript 4 [Source:MGI Symbol:Acc:MGI:1921997]
ENSMUSG0000015837	Sqstm1	1.30	0.00	0.00	-0.80	0.00	0.00	-0.18	0.04	1.00	sequestosome 1 [Source:MGI Symbol:Acc:MGI:107831]
ENSMUSG0000046875	Irgm1	0.87	0.00	0.00	-0.79	0.00	0.00	-0.06	0.82	1.00	immunity-related GTPase family M member 1 [Source:MGI Symbol:Acc:MGI:107567]
ENSMUSG0000032501	Tnb1	1.07	0.00	0.00	-0.79	0.00	0.01	0.08	0.84	1.00	tribbles homolog 1 (Drosophila) [Source:MGI Symbol:Acc:MGI:2443397]
ENSMUSG00000074175	Gm10639	2.51	0.00	0.00	-0.78	0.00	0.00	-0.27	0.51	1.00	predicted gene 10639 [Source:MGI Symbol:Acc:MGI:3704339]
ENSMUSG000002189C	Eaf1	0.74	0.00	0.00	-0.76	0.00	0.00	0.05	0.81	1.00	ELL associated factor 1 [Source:MGI Symbol:Acc:MGI:1921677]
ENSMUSG000002250C	Itaf	1.30	0.00	0.00	-0.76	0.00	0.00	-0.15	0.58	1.00	LPS-induced TN factor [Source:MGI Symbol:Acc:MGI:1929512]
ENSMUSG0000008395	Carhsp1	1.23	0.00	0.00	-0.76	0.00	0.00	-0.11	0.63	1.00	calcium regulated heat stable protein 1 [Source:MGI Symbol:Acc:MGI:1196368]
ENSMUSG000002602C	Nop58	1.03	0.00	0.00	-0.76	0.00	0.01	-0.15	0.59	1.00	NOP58 ribonucleoprotein homolog (yeast) [Source:MGI Symbol:Acc:MGI:1933184]
ENSMUSG0000030403	Vasp	1.11	0.00	0.00	-0.76	0.00	0.00	-0.01	1.00	1.00	vasodilator-stimulated phosphoprotein [Source:MGI Symbol:Acc:MGI:109268]
ENSMUSG000004043	Ppp115a	1.28	0.00	0.00	-0.75	0.00	0.03	-0.05	1.00	1.00	protein phosphatase 1, regulatory (inhibitor) subunit 15A [Source:MGI Symbol:Acc:MGI:1927072]
ENSMUSG0000018143	Malik	0.80	0.00	0.00	-0.75	0.00	0.00	-0.18	0.47	1.00	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein K (avian) [Source:MGI Symbol:Acc:MGI:99951]
ENSMUSG0000020274	Trnfrs10b	3.28	0.00	0.00	-0.75	0.00	0.05	0.03	1.00	1.00	tumor necrosis factor receptor superfamily, member 10b [Source:MGI Symbol:Acc:MGI:1341090]
ENSMUSG000002766	Skil	1.28	0.00	0.00	-0.75	0.00	0.00	0.08	0.80	1.00	SKH-like [Source:MGI Symbol:Acc:MGI:106203]
ENSMUSG0000008514	Mir22hg	0.54	0.00	0.01	-0.75	0.00	0.00	0.16	0.40	1.00	Mir22 host gene (non-protein coding) [Source:MGI Symbol:Acc:MGI:1914348]
ENSMUSG000002899C	Rcc1	0.88	0.00	0.00	-0.74	0.00	0.02	-0.16	0.62	1.00	regulator of chromosome condensation 1 [Source:MGI Symbol:Acc:MGI:1913989]
ENSMUSG000003989C	Dna4	2.69	0.00	0.00	-0.74	0.00	0.00	-0.18	0.59	1.00	deltex 4 homolog (Drosophila) [Source:MGI Symbol:Acc:MGI:2672905]
ENSMUSG0000024164	C3	3.41	0.00	0.00	-0.74	0.00	0.00	-0.12	0.73	1.00	complement component 3 [Source:MGI Symbol:Acc:MGI:88227]
ENSMUSG000006887C	Cgn	1.11	0.00	0.00	-0.74	0.00	0.00	-0.89	0.00	0.03	cingulin [Source:MGI Symbol:Acc:MGI:1927237]
ENSMUSG00000041237	Pkr	1.78	0.00	0.00	-0.73	0.00	0.00	-0.17	0.50	1.00	pyruvate kinase liver and red blood cell [Source:MGI Symbol:Acc:MGI:97604]
ENSMUSG0000022895	Ets2	1.09	0.00	0.00	-0.73	0.00	0.00	-0.03	0.90	1.00	E26 avian leukemia oncogene 2, 3' domain [Source:MGI Symbol:Acc:MGI:95456]
ENSMUSG000002803C	Dnajb4	1.32	0.00	0.00	-0.73	0.00	0.00	0.32	0.19	1.00	DnaJ (Hsp40) homolog, subfamily B, member 4 [Source:MGI Symbol:Acc:MGI:1914285]
ENSMUSG000002897	Il17ra	0.70	0.00	0.01	-0.73	0.00	0.01	0.18	0.44	1.00	interleukin 17 receptor A [Source:MGI Symbol:Acc:MGI:107399]
ENSMUSG0000026107	Nabp1	1.36	0.00	0.00	-0.73	0.00	0.00	-0.05	0.76	1.00	nucleic acid binding protein 1 [Source:MGI Symbol:Acc:MGI:1923258]
ENSMUSG0000028327	1300002K09Rik	2.89	0.00	0.00	-0.72	0.00	0.00	-0.20	0.66	1.00	RIKEN cDNA 1300002K09 gene [Source:MGI Symbol:Acc:MGI:1921402]
ENSMUSG000000882C	Dnajc5	1.07	0.00	0.00	-0.72	0.00	0.00	0.01	0.97	1.00	DnaJ (Hsp40) homolog, subfamily C, member 5 [Source:MGI Symbol:Acc:MGI:892995]
ENSMUSG0000042784	Muc1	1.42	0.00	0.00	-0.72	0.00	0.05	-0.06	1.00	1.00	mucin 1, transmembrane [Source:MGI Symbol:Acc:MGI:97231]
ENSMUSG0000013625	Cad	1.43	0.00	0.00	-0.72	0.00	0.02	-0.02	1.00	1.00	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase [Source:MGI Symbol:Acc:MGI:1916969]
ENSMUSG000003153C	Dusp4	1.69	0.00	0.00	-0.71	0.00	0.02	-0.07	0.90	1.00	dual specificity phosphatase 4 [Source:MGI Symbol:Acc:MGI:2442191]
ENSMUSG0000042688	Mapk6	1.03	0.00	0.00	-0.71	0.00	0.00	0.04	0.94	1.00	mitogen-activated protein kinase 6 [Source:MGI Symbol:Acc:MGI:1354946]
ENSMUSG0000007872	I3	1.00	0.00	0.00	-0.70	0.00	0.00	-0.06	0.77	1.00	inhibitor of DNA binding 3 [Source:MGI Symbol:Acc:MGI:96398]
ENSMUSG0000030947	Bog3	0.92	0.00	0.00	-0.70	0.00	0.00	0.00	0.66	1.00	BCL2-associated atypical protein 3 [Source:MGI Symbol:Acc:MGI:1352493]
ENSMUSG000002895C	Trp53	1.01	0.00	0.00	-0.70	0.00	0.00	-0.00	0.81	1.00	transformation related protein 53 [Source:MGI Symbol:Acc:MGI:98834]
ENSMUSG0000025194	Abcc2	1.67	0.00	0.00	-0.70	0.00	0.00	0.04	0.81	1.00	ATP-binding cassette, sub-family C (CFTR/MRP), member 2 [Source:MGI Symbol:Acc:MGI:1352447]
ENSMUSG000002286C	Cxadr	1.13	0.00	0.00	-0.69	0.00	0.00	0.11	0.63	1.00	coxsackie virus and adenovirus receptor [Source:MGI Symbol:Acc:MGI:1201679]
ENSMUSG000003235C	Gclc	1.37	0.00	0.00	-0.69	0.00	0.00	0.27	0.08	1.00	glutamate-cysteine ligase, catalytic subunit [Source:MGI Symbol:Acc:MGI:104990]
ENSMUSG0000030341	Trnfrs11a	1.37	0.00	0.00	-0.69	0.00	0.00	-0.12	0.62	1.00	tumor necrosis factor receptor superfamily, member 1a [Source:MGI Symbol:Acc:MGI:1314884]
ENSMUSG0000067787	Bkap	0.98	0.00	0.00	-0.69	0.00	0.00	-0.01	1.00	1.00	bladder cancer associated protein homolog (human) [Source:MGI Symbol:Acc:MGI:1858907]
ENSMUSG0000035395	3230401D17Rik	0.83	0.00	0.00	-0.68	0.00	0.03	-0.01	1.00	1.00	RIKEN cDNA 3230401D17 gene [Source:MGI Symbol:Acc:MGI:1913930]
ENSMUSG0000041801	Phlda3	5.34	0.00	0.00	-0.68	0.00	0.00	0.15	1.00	1.00	pleckstrin homology-like domain, family A, member 3 [Source:MGI Symbol:Acc:MGI:1351485]
ENSMUSG000005793C	Gsta2	2.20	0.00	0.00	-0.68	0.00	0.00	-0.47	0.09	1.00	glutathione S-transferase, alpha 2 (Yc2) [Source:MGI Symbol:Acc:MGI:95863]
ENSMUSG000002256C	Plec	1.26	0.00	0.00	-0.68	0.00	0.00	0.06	0.73	1.00	plectin [Source:MGI Symbol:Acc:MGI:1277961]
ENSMUSG0000028771	Ptpn12	1.12	0.00	0.00	-0.68	0.00	0.01	0.07	0.85	1.00	protein tyrosine phosphatase, non-receptor type 12 [Source:MGI Symbol:Acc:MGI:104673]
ENSMUSG000003596C	Rusc2	1.27	0.00	0.00	-0.67	0.00	0.01	-0.16	0.62	1.00	RUN and SH3 domain containing 2 [Source:MGI Symbol:Acc:MGI:2140371]
ENSMUSG000002884C	Map7d1	1.02	0.00	0.00	-0.67	0.00	0.01	0.04	0.93	1.00	microtubule-associated protein 7 domain containing 1 [Source:MGI Symbol:Acc:MGI:2384297]
ENSMUSG000007370C	Khi2t1	0.78	0.00	0.00	-0.67	0.00	0.00	-0.08	0.82	1.00	kelch-like 21 (Drosophila) [Source:MGI Symbol:Acc:MGI:1919288]
ENSMUSG00000054364	Rnob	1.37	0.00	0.00	-0.66	0.00	0.00	-0.06	0.78	1.00	ras homolog gene family, member B [Source:MGI Symbol:Acc:MGI:107949]
ENSMUSG0000090877	Hspab1	1.18	0.00	0.00	-0.66	0.00	0.00	0.15	0.45	1.00	heat shock protein 1B [Source:MGI Symbol:Acc:MGI:99517]
ENSMUSG000003956C	Ccp1	1.27	0.00	0.00	-0.66	0.00	0.00	0.26	0.25	1.00	cytidine 5'-triphosphate synthase [Source:MGI Symbol:Acc:MGI:1858304]
ENSMUSG000003140C	G6pd	1.68	0.00	0.00	-0.66	0.00	0.00	-0.01	1.00	1.00	glucose-6-phosphate dehydrogenase X-linked [Source:MGI Symbol:Acc:MGI:105979]
ENSMUSG000001836C	Knsa2	0.92	0.00	0.00	-0.66	0.00	0.03	0.12	0.72	1.00	karyopherin (importin) alpha 2 [Source:MGI Symbol:Acc:MGI:103561]
ENSMUSG00000091971	Hspa1a	1.11	0.00	0.00	-0.66	0.00	0.00	0.12	0.62	1.00	heat shock protein 1A [Source:MGI Symbol:Acc:MGI:96244]
ENSMUSG0000028961	Pgd	1.77	0.00	0.00	-0.66	0.00	0.00	-0.04	0.82	1.00	phosphogluconate dehydrogenase [Source:MGI Symbol:Acc:MGI:97553]
ENSMUSG0000020184	Mdm2	2.30	0.00	0.00	-0.65	0.00	0.00	0.11	0.57	1.00	transformed mouse 3T3 cell double minute 2 [Source:MGI Symbol:Acc:MGI:96952]
ENSMUSG0000000134	Tfe3	0.98	0.00	0.00	-0.65	0.00	0.02	0.00	1.00	1.00	transcription factor E3 [Source:MGI Symbol:Acc:MGI:98511]
ENSMUSG0000018427	Ypel2	2.23	0.00	0.00	-0.65	0.00	0.00	-0.27	0.46	1.00	yippe-like 2 (Drosophila) [Source:MGI Symbol:Acc:MGI:1925114]
ENSMUSG0000005054	Csb	1.79	0.00	0.00	-0.65	0.00	0.00	0.00	1.00	1.00	cystatin B [Source:MGI Symbol:Acc:MGI:109514]
ENSMUSG0000021025	Ntkbia	1.17	0.00	0.00	-0.65	0.00	0.01	-0.13	0.66	1.00	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha [Source:MGI Symbol:Acc:MGI:104741]
ENSMUSG000002296C	Ilnr2	1.40	0.00	0.00	-0.65	0.00	0.01	0.09	0.77	1.00	interferon gamma receptor 2 [Source:MGI Symbol:Acc:MGI:107654]
ENSMUSG000009704C	AC140326.1	1.02	0.00	0.00	-0.64	0.00	0.04	-0.23	0.54	1.00	
ENSMUSG000000596C	Tuft1	1.52	0.00	0.00	-0.63	0.00	0.00	0.17	0.39	1.00	tufelin 1 [Source:MGI Symbol:Acc:MGI:109572]
ENSMUSG0000005198	Poi2a	1.01	0.00	0.00	-0.63	0.00	0.00	-0.11	0.48	1.00	polymerase (RNA) II (DNA directed) polypeptide A [Source:MGI Symbol:Acc:MGI:98086]
ENSMUSG0000020075	Dobz2	0.89	0.00	0.00	-0.63	0.00	0.00	0.10	0.61	1.00	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21 [Source:MGI Symbol:Acc:MGI:1860494]
ENSMUSG000004143C	Cnr11a	1.05	0.00	0.00	-0.63	0.00	0.03	0.06	0.95	1.00	cytochrome P-450, autosomal recessive 1A (human) [Source:MGI Symbol:Acc:MGI:1096573]
ENSMUSG0000035951	Mdn3	1.93	0.00	0.00	-0.62	0.00	0.00	-0.24	0.20	1.00	midline 1 [Source:MGI Symbol:Acc:MGI:189222]
ENSMUSG000002883C	Ncdn	0.92	0.00	0.00	-0.62	0.00	0.04	-0.11	0.78	1.00	neurochondrin [Source:MGI Symbol:Acc:MGI:1347351]
ENSMUSG00000048572	Tmem252	2.14	0.00	0.00	-0.62	0.00	0.00	-0.61	0.00	0.93	transmembrane protein 252 [Source:MGI Symbol:Acc:MGI:3583948]
ENSMUSG0000018171	Vmp1	1.32	0.00	0.00	-0.62	0.00	0.00	0.01	0.94	1.00	vacuole membrane protein 1 [Source:MGI Symbol:Acc:MGI:1923159]
ENSMUSG00000050335	Lgals3	1.14	0.00	0.00	-0.61	0.00	0.02	-0.16	0.65	1.00	

ENSMUSG00000021215	Net1	1.03	0.00	0.00	-0.51	0.00	0.00	-0.04	0.78	1.00	neuroepithelial cell transforming gene 1 [Source:MGI Symbol:Acc:MGI:1927138]
ENSMUSG0000004932	Smcr8	0.81	0.00	0.00	-0.51	0.00	0.02	-0.07	0.74	1.00	Smith-Magenis syndrome chromosome region, candidate 8 homolog (human) [Source:MGI Symbol:Acc:MGI:2444720]
ENSMUSG00000031691	Npno2	0.73	0.00	0.00	-0.51	0.00	0.03	-0.09	0.68	1.00	transporin 2 (importin 3, karyopherin beta 2b) [Source:MGI Symbol:Acc:MGI:2384849]
ENSMUSG00000051391	Ywhag	0.84	0.00	0.00	-0.51	0.00	0.00	0.19	0.25	1.00	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide [Source:MGI Symbol:Acc:MGI:108109]
ENSMUSG00000057561	Ef1a1	0.89	0.00	0.00	-0.50	0.00	0.02	0.07	0.74	1.00	eukaryotic translation initiation factor 1A [Source:MGI Symbol:Acc:MGI:95298]
ENSMUSG00000044468	Fam160a2	0.99	0.00	0.00	-0.50	0.00	0.01	-0.01	1.00	1.00	family with sequence similarity 160, member A2 [Source:MGI Symbol:Acc:MGI:1921599]
ENSMUSG0000003662	Mgat4b	0.86	0.00	0.00	-0.50	0.00	0.00	0.00	1.00	1.00	mannoside acetylglucosaminyltransferase 4, isoenzyme B [Source:MGI Symbol:Acc:MGI:2143974]
ENSMUSG00000030905	Aem	2.80	0.00	0.00	-0.50	0.00	0.00	0.17	0.47	1.00	apoptosis enhancing nuclease [Source:MGI Symbol:Acc:MGI:1915298]
ENSMUSG00000021815	R2102P13Rk	0.64	0.00	0.00	-0.50	0.00	0.00	-0.09	0.64	1.00	RIKEN cDNA 231022P13 gene [Source:MGI Symbol:Acc:MGI:1919156]
ENSMUSG00000011877	Gat1	0.73	0.00	0.00	-0.50	0.00	0.01	-0.12	0.53	1.00	G protein-coupled receptor kinase-interactor 1 [Source:MGI Symbol:Acc:MGI:1927140]
ENSMUSG0000001893	Map2k3	0.94	0.00	0.00	-0.49	0.00	0.02	-0.09	0.74	1.00	mitogen-activated protein kinase kinase 3 [Source:MGI Symbol:Acc:MGI:1346868]
ENSMUSG0000001247	Lsr	1.05	0.00	0.00	-0.49	0.00	0.01	-0.07	0.78	1.00	lipolysis stimulated lipoprotein receptor [Source:MGI Symbol:Acc:MGI:1927471]
ENSMUSG0000002127	Hsp90aa1	1.05	0.00	0.00	-0.49	0.00	0.00	0.23	0.07	1.00	heat shock protein 90, alpha (cytosolic), class A member 1 [Source:MGI Symbol:Acc:MGI:96250]
ENSMUSG0000002897	Acbcb1b	2.12	0.00	0.00	-0.49	0.00	0.02	-0.72	0.03	1.00	ATP-binding cassette, sub-family B (MDR/TAP), member 1B [Source:MGI Symbol:Acc:MGI:97568]
ENSMUSG0000003639	Gadd45a	0.65	0.00	0.00	-0.49	0.00	0.03	-0.05	0.81	1.00	growth arrest and DNA-damage-inducible 45 alpha [Source:MGI Symbol:Acc:MGI:107799]
ENSMUSG00000042745	Id1	1.69	0.00	0.00	-0.49	0.00	0.03	-0.10	0.71	1.00	inhibitor of DNA binding 1 [Source:MGI Symbol:Acc:MGI:96396]
ENSMUSG0000002233	Rhoc	1.08	0.00	0.00	-0.48	0.00	0.00	-0.11	0.54	1.00	Ras homolog gene family, member C [Source:MGI Symbol:Acc:MGI:106028]
ENSMUSG0000003845	Nqo1	2.34	0.00	0.00	-0.48	0.00	0.00	-0.14	0.54	1.00	NAD(P)H dehydrogenase, quinone 1 [Source:MGI Symbol:Acc:MGI:103187]
ENSMUSG0000002528	Sat1	1.00	0.00	0.00	-0.48	0.00	0.00	-0.02	0.89	1.00	spermidine/spermine N1-acetyl transferase 1 [Source:MGI Symbol:Acc:MGI:98233]
ENSMUSG0000002731	Spint1	0.82	0.00	0.00	-0.48	0.00	0.00	-0.02	0.94	1.00	serine protease inhibitor, Kunitz type 1 [Source:MGI Symbol:Acc:MGI:1338033]
ENSMUSG0000003416	Irf2bp1	1.03	0.00	0.00	-0.46	0.00	0.02	-0.20	0.34	1.00	interferon regulatory factor 2 binding protein-like [Source:MGI Symbol:Acc:MGI:2442463]
ENSMUSG0000004015	Tax1bp3	1.03	0.00	0.00	-0.46	0.00	0.01	0.03	0.95	1.00	Tax1 (human T cell leukemia virus type 1) binding protein 3 [Source:MGI Symbol:Acc:MGI:1923531]
ENSMUSG0000003163	Irf3	1.62	0.00	0.00	-0.45	0.00	0.01	-0.13	0.57	1.00	interferon gamma inducible protein 30 [Source:MGI Symbol:Acc:MGI:2137648]
ENSMUSG0000005148	Cbr1	1.58	0.00	0.00	-0.45	0.00	0.02	-0.25	0.33	1.00	carbonyl reductase 1 [Source:MGI Symbol:Acc:MGI:88284]
ENSMUSG0000002085	Lnc59	0.64	0.00	0.00	-0.45	0.00	0.02	0.04	0.87	1.00	leucine rich repeat containing 59 [Source:MGI Symbol:Acc:MGI:2138133]
ENSMUSG0000003373	Sf3b3	0.64	0.00	0.00	-0.45	0.00	0.03	-0.04	0.86	1.00	splicing factor 3b, subunit 3 [Source:MGI Symbol:Acc:MGI:1289341]
ENSMUSG0000003354	Ahrgef5	0.91	0.00	0.00	-0.45	0.00	0.00	-0.01	0.96	1.00	Rho guanine nucleotide exchange factor (GEF) 5 [Source:MGI Symbol:Acc:MGI:1858952]
ENSMUSG00000025034	Trim8	0.66	0.00	0.00	-0.45	0.00	0.02	0.01	1.00	1.00	tripartite motif-containing 8 [Source:MGI Symbol:Acc:MGI:1933302]
ENSMUSG00000025364	Pa2g4	1.02	0.00	0.00	-0.45	0.00	0.00	0.03	0.88	1.00	proliferation-associated 2G4 [Source:MGI Symbol:Acc:MGI:894684]
ENSMUSG0000002958	Actb	0.64	0.00	0.00	-0.44	0.00	0.00	-0.01	0.94	1.00	actin, beta [Source:MGI Symbol:Acc:MGI:87904]
ENSMUSG0000002761	Ef6	1.04	0.00	0.00	-0.44	0.00	0.00	0.05	0.80	1.00	eukaryotic translation initiation factor 6 [Source:MGI Symbol:Acc:MGI:1196288]
ENSMUSG0000006822	Lgals1	2.02	0.00	0.00	-0.44	0.00	0.02	0.27	0.30	1.00	lectin, galactose binding, soluble 1 [Source:MGI Symbol:Acc:MGI:96777]
ENSMUSG0000004084	Chmp2b	1.21	0.00	0.00	-0.44	0.00	0.01	0.10	0.62	1.00	charged multivesicular body protein 2B [Source:MGI Symbol:Acc:MGI:1916192]
ENSMUSG00000030084	Pknox1	1.34	0.00	0.00	-0.44	0.00	0.04	0.01	1.00	1.00	plexin A1 [Source:MGI Symbol:Acc:MGI:107685]
ENSMUSG00000007041	Clic1	1.22	0.00	0.00	-0.44	0.00	0.00	0.09	0.55	1.00	chloride intracellular channel 1 [Source:MGI Symbol:Acc:MGI:2148924]
ENSMUSG0000002551	Cd151	1.11	0.00	0.00	-0.44	0.00	0.00	-0.03	0.89	1.00	CD151 antigen [Source:MGI Symbol:Acc:MGI:1096360]
ENSMUSG0000002943	Ran	0.89	0.00	0.00	-0.44	0.00	0.00	0.11	0.43	1.00	RAN, member RAS oncogene family [Source:MGI Symbol:Acc:MGI:1333112]
ENSMUSG0000006166	Cd2ap	0.93	0.00	0.00	-0.43	0.00	0.00	0.00	1.00	1.00	CD2-associated protein [Source:MGI Symbol:Acc:MGI:1330281]
ENSMUSG00000020307	Cdc34	1.31	0.00	0.00	-0.43	0.00	0.03	0.13	0.57	1.00	cell division cycle 34 [Source:MGI Symbol:Acc:MGI:102657]
ENSMUSG0000003023	Aebp2	0.80	0.00	0.00	-0.43	0.00	0.02	-0.16	0.36	1.00	AE binding protein 2 [Source:MGI Symbol:Acc:MGI:1338038]
ENSMUSG00000029304	Syp1	1.27	0.00	0.00	-0.43	0.00	0.02	-0.08	0.45	1.00	secreted phosphoprotein 1 [Source:MGI Symbol:Acc:MGI:98398]
ENSMUSG0000005879	Nap115	0.79	0.00	0.00	-0.43	0.00	0.00	0.10	0.46	1.00	nucleosome assembly protein 1-like 1 [Source:MGI Symbol:Acc:MGI:1955693]
ENSMUSG0000001876	Fxr2	0.64	0.00	0.00	-0.42	0.00	0.03	0.03	0.87	1.00	fragile X mental retardation, autosomal homolog 2 [Source:MGI Symbol:Acc:MGI:1346074]
ENSMUSG0000002782	AW555464	1.34	0.00	0.00	-0.42	0.00	0.00	-0.01	1.00	1.00	expressed sequence AW555464 [Source:MGI Symbol:Acc:MGI:2145043]
ENSMUSG0000001895	Ywhah	0.91	0.00	0.00	-0.42	0.00	0.01	-0.11	0.58	1.00	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide [Source:MGI Symbol:Acc:MGI:109194]
ENSMUSG0000002045	Rtn4	0.71	0.00	0.00	-0.42	0.00	0.01	-0.04	0.82	1.00	reticulon 4 [Source:MGI Symbol:Acc:MGI:1915835]
ENSMUSG0000003140	Mpp1	1.38	0.00	0.00	-0.42	0.00	0.00	0.07	0.62	1.00	membrane protein, palmitoylated [Source:MGI Symbol:Acc:MGI:105941]
ENSMUSG0000008005	Gm11175	0.92	0.00	0.00	-0.42	0.00	0.04	-0.03	0.90	1.00	predicted gene 11175 [Source:MGI Symbol:Acc:MGI:3809055]
ENSMUSG0000000562	Psmf4	0.67	0.00	0.00	-0.42	0.00	0.01	-0.03	0.86	1.00	proteasome (prosome, macropain) 26S subunit, non-ATPase, 4 [Source:MGI Symbol:Acc:MGI:1201670]
ENSMUSG0000002430	Tapbp	0.83	0.00	0.00	-0.41	0.00	0.02	-0.03	0.88	1.00	TAP binding protein [Source:MGI Symbol:Acc:MGI:1201689]
ENSMUSG0000002193	Ctsb	0.85	0.00	0.00	-0.41	0.00	0.00	-0.07	0.36	1.00	cathepsin B [Source:MGI Symbol:Acc:MGI:88561]
ENSMUSG0000002642	Arl8a	0.85	0.00	0.00	-0.41	0.00	0.02	-0.10	0.63	1.00	ADP-ribosylation factor-like 8A [Source:MGI Symbol:Acc:MGI:1915974]
ENSMUSG0000003904	Adrm1	0.53	0.00	0.00	-0.41	0.00	0.01	0.07	0.69	1.00	adhesion regulating molecule 1 [Source:MGI Symbol:Acc:MGI:1929289]
ENSMUSG00000026234	Ncl	0.74	0.00	0.00	-0.41	0.00	0.00	0.14	0.18	1.00	nucleolin [Source:MGI Symbol:Acc:MGI:97286]
ENSMUSG0000002029	Xpo1	1.03	0.00	0.00	-0.40	0.00	0.02	-0.15	0.44	1.00	exportin 1, CRM1 homolog (yeast) [Source:MGI Symbol:Acc:MGI:2144013]
ENSMUSG0000003823	F11r	0.77	0.00	0.00	-0.40	0.00	0.01	-0.07	0.69	1.00	F11 receptor [Source:MGI Symbol:Acc:MGI:1321398]
ENSMUSG0000005122	Bzw1	0.63	0.00	0.00	-0.40	0.00	0.00	0.02	0.90	1.00	basic leucine zipper and W2 domains 1 [Source:MGI Symbol:Acc:MGI:1914132]
ENSMUSG0000004592	Gm8399	0.53	0.00	0.00	-0.40	0.00	0.01	-0.12	0.44	1.00	predicted gene 8399 [Source:MGI Symbol:Acc:MGI:2652817]
ENSMUSG00000021477	Cst1	0.84	0.00	0.00	-0.40	0.00	0.00	-0.02	0.82	1.00	cathepsin L [Source:MGI Symbol:Acc:MGI:88564]
ENSMUSG0000003196	Aars	0.74	0.00	0.00	-0.40	0.00	0.00	-0.04	0.81	1.00	alanyl-tRNA synthetase [Source:MGI Symbol:Acc:MGI:2384560]
ENSMUSG0000002877	Tinag1	1.40	0.00	0.00	-0.40	0.00	0.04	-0.03	0.94	1.00	tubulointerstitial nephritis antigen-like 1 [Source:MGI Symbol:Acc:MGI:2137617]
ENSMUSG0000001992	Zwint	0.70	0.00	0.00	-0.40	0.00	0.01	-0.09	0.57	1.00	ZW10 interactor [Source:MGI Symbol:Acc:MGI:1289227]
ENSMUSG0000003254	Ahd5	1.09	0.00	0.00	-0.39	0.00	0.04	0.17	0.36	1.00	abhydrolase domain containing 5 [Source:MGI Symbol:Acc:MGI:1914719]
ENSMUSG0000007523	Amd1	0.51	0.00	0.00	-0.39	0.00	0.04	0.08	0.65	1.00	S-adenosylmethionine decarboxylase 1 [Source:MGI Symbol:Acc:MGI:88004]
ENSMUSG0000002244	Myl9	0.80	0.00	0.00	-0.39	0.00	0.00	0.00	1.00	1.00	myosin, heavy polypeptide 9, non-muscle [Source:MGI Symbol:Acc:MGI:107717]
ENSMUSG0000004071	Creg1	0.82	0.00	0.00	-0.39	0.00	0.04	-0.16	0.40	1.00	cellular repressor of E1A-stimulated genes 1 [Source:MGI Symbol:Acc:MGI:1344382]
ENSMUSG0000001742	Psmf11	0.71	0.00	0.00	-0.39	0.00	0.03	0.06	0.74	1.00	proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 [Source:MGI Symbol:Acc:MGI:1916327]
ENSMUSG0000000854	Mgst1	2.19	0.00	0.00	-0.38	0.00	0.00	-0.48	0.02	1.00	microsomal glutathione S-transferase 1 [Source:MGI Symbol:Acc:MGI:1913850]
ENSMUSG0000002103	Splc2	1.12	0.00	0.00	-0.38	0.00	0.00	-0.09	0.52	1.00	serine palmitoyltransferase, long chain base subunit 2 [Source:MGI Symbol:Acc:MGI:108074]
ENSMUSG0000002061	Gna13	0.97	0.00	0.00	-0.37	0.00	0.01	-0.09	0.59	1.00	guanine nucleotide binding protein, alpha 13 [Source:MGI Symbol:Acc:MGI:95768]
ENSMUSG0000002898	Sees2	1.55	0.00	0.00	-0.37	0.00	0.02	-0.41	0.05	1.00	sestrin 2 [Source:MGI Symbol:Acc:MGI:2651874]
ENSMUSG0000007341	H2-D1	0.42	0.00	0.00	-0.37	0.00	0.00	0.00	1.00	1.00	histocompatibility 2, D region locus 1 [Source:MGI Symbol:Acc:MGI:95896]
ENSMUSG0000004594	Mmmr1	1.06	0.00	0.00	-0.37	0.00	0.01	-0.06	0.69	1.00	myotubularin related protein 11 [Source:MGI Symbol:Acc:MGI:2652817]
ENSMUSG0000001596	Ades1	0.76	0.00	0.00	-0.37	0.00	0.01	0.11	0.48	1.00	adenylosuccinate synthetase, non-muscle [Source:MGI Symbol:Acc:MGI:87948]
ENSMUSG0000003836	Lasp1	0.68	0.00	0.00	-0.37	0.00	0.00	-0.03	0.79	1.00	LIM and SH3 protein 1 [Source:MGI Symbol:Acc:MGI:109856]
ENSMUSG0000002635	Ubxm4	0.66	0.00	0.00	-0.37	0.00	0.03	0.10	0.54	1.00	UBX domain protein 4 [Source:MGI Symbol:Acc:MGI:1915062]
ENSMUSG0000000698	Psmf2	0.63	0.00	0.00	-0.37	0.00	0.00	0.05	0.67	1.00	proteasome (prosome, macropain) 26S subunit, non-ATPase, 2 [Source:MGI Symbol:Acc:MGI:1096584]
ENSMUSG0000005113	Npm1	0.71	0.00	0.00	-0.36	0.00	0.				

Sup. Table 1 SET III

ENSEMBL	Symbol	CP versus Sal			CP versus CP+DCA			DCA versus Sal			Desc
		logFC	PValue	FDR	logFC	PValue	FDR	logFC	PValue	FDR	
ENSMUSG00000064346	mt-Tw	-1.97	0.00	0.00	-1.59	0.00	0.00	0.13	0.82	1.00	mitochondrially encoded tRNA tryptophan [Source:MGI Symbol;Acc:MGI:102471]
ENSMUSG00000020641	Rsad2	0.67	0.02	0.11	-0.91	0.00	0.03	-0.03	1.00	1.00	radical S-adenosyl methionine domain containing 2 [Source:MGI Symbol;Acc:MGI:1929628]
ENSMUSG00000057137	Tmem140	0.37	0.03	0.17	-0.74	0.00	0.00	-0.17	0.41	1.00	transmembrane protein 140 [Source:MGI Symbol;Acc:MGI:1915737]
ENSMUSG00000046806	3110062M04Rik	0.35	0.05	0.23	-0.67	0.00	0.00	-0.17	0.43	1.00	RIKEN cDNA 3110062M04 gene [Source:MGI Symbol;Acc:MGI:1925662]
ENSMUSG00000019132	BC005537	0.16	0.12	0.47	-0.42	0.00	0.00	0.01	0.94	1.00	cDNA sequence BC005537 [Source:MGI Symbol;Acc:MGI:2441726]
ENSMUSG00000006273	Atp6v1b2	0.16	0.05	0.26	-0.35	0.00	0.00	-0.02	0.85	1.00	ATPase, H+ transporting, lysosomal V1 subunit B2 [Source:MGI Symbol;Acc:MGI:109618]
ENSMUSG00000075602	Ly6a	0.27	0.01	0.07	-0.30	0.00	0.01	0.10	0.36	1.00	lymphocyte antigen 6 complex, locus A [Source:MGI Symbol;Acc:MGI:107527]
ENSMUSG00000002985	ApoE	-0.36	0.00	0.01	-0.44	0.00	0.01	-0.71	0.00	0.00	apolipoprotein E [Source:MGI Symbol;Acc:MGI:88057]

Sup. Table 1 SET IV

ENSEMBL	Symbol	CP versus Sal			CP versus CP+DCA			DCA versus Sal			Desc
		logFC	PValue	FDR	logFC	PValue	FDR	logFC	PValue	FDR	
ENSMUSG00000084058	Gm15263	-6.58	0.00	0.00	0.19	1.00	1.00	-5.49	0.00	0.00	predicted gene 15263 [Source:MG Symbol;Acc:MG:3705753]
ENSMUSG00000087720	U6	-5.56	0.00	0.00	0.47	1.00	1.00	-5.01	0.00	0.00	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMUSG00000081355	Gm15264	-1.47	0.00	0.03	-0.59	0.21	1.00	-2.74	0.00	0.03	predicted gene 15264 [Source:MG Symbol;Acc:MG:3705845]
ENSMUSG0000005268	Prlr	-1.11	0.00	0.00	-0.49	0.13	0.96	-1.39	0.00	0.00	prolactin receptor [Source:MG Symbol;Acc:MG:97763]
ENSMUSG00000068876	Cgn	1.11	0.00	0.00	-0.74	0.00	0.00	-0.89	0.00	0.03	cingulin [Source:MG Symbol;Acc:MG:1927237]
ENSMUSG00000030359	Pzp	-2.80	0.00	0.00	-0.06	0.87	1.00	-0.79	0.00	0.00	pregnancy zone protein [Source:MG Symbol;Acc:MG:87854]
ENSMUSG00000002985	ApoE	-0.36	0.00	0.01	-0.44	0.00	0.01	-0.71	0.00	0.00	apolipoprotein E [Source:MG Symbol;Acc:MG:88057]
ENSMUSG00000055137	5033411D12Rik	-1.35	0.00	0.00	-0.38	0.01	0.13	-0.63	0.00	0.00	RIKEN cDNA 5033411D12 gene [Source:MG Symbol;Acc:MG:1923221]
ENSMUSG00000022445	Cyp2d26	-0.30	0.01	0.08	0.31	0.00	0.08	-0.61	0.00	0.01	cytochrome P450, family 2, subfamily d, polypeptide 26 [Source:MG Symbol;Acc:MG:1923529]
ENSMUSG00000063796	Slc22a8	-1.57	0.00	0.00	0.86	0.00	0.00	-0.55	0.00	0.02	solute carrier family 22 (organic anion transporter), member 8 [Source:MG Symbol;Acc:MG:1336187]
ENSMUSG00000070348	Ccnd1	-1.72	0.00	0.00	0.58	0.00	0.00	-0.44	0.00	0.03	cyclin D1 [Source:MG Symbol;Acc:MG:88313]
ENSMUSG00000029455	Aldh2	-0.31	0.00	0.00	0.16	0.01	0.14	-0.31	0.00	0.05	aldehyde dehydrogenase 2, mitochondrial [Source:MG Symbol;Acc:MG:99600]

Sup. Table 1 SET V

ENSEMBL	Symbol	CP vs. Sal			CP vs. CP+DCA			DCA vs Sal			Description
		logFC	PValue	FDR	logFC	PValue	FDR	logFC	PValue	FDR	
ENSMUSG00000028017	Egf	-2.81	0.00	0.00	0.27	0.14	0.00	0.27	0.14	0.00	epidermal growth factor [Source:MGJ Symbol:Acc:MGJ:95290]
ENSMUSG00000038224	Serpinf2	-1.84	0.00	0.00	-0.35	0.01	0.11	-0.09	0.32	1.00	serine (or cysteine) peptidase inhibitor, clade F, member 2 [Source:MGJ Symbol:Acc:MGJ:107173]
ENSMUSG00000001467	Cyp51	-2.38	0.00	0.00	0.42	0.01	0.18	0.04	0.75	1.00	cytochrome P450, family 5 [Source:MGJ Symbol:Acc:MGJ:106040]
ENSMUSG00000000793	Prp9	-0.87	0.00	0.00	0.39	0.01	0.15	-0.79	0.87	1.00	pregnancy zone protein [Source:MGJ Symbol:Acc:MGJ:81000]
ENSMUSG00000008750	Gm15396	-1.23	0.00	0.00	0.20	0.01	0.15	-0.19	0.01	1.00	predicted gene 15396 [Source:MGJ Symbol:Acc:MGJ:3705202]
ENSMUSG00000004843	Atm1	-3.53	0.00	0.00	0.76	0.04	0.41	0.24	0.08	1.00	attractin like 1 [Source:MGJ Symbol:Acc:MGJ:2147749]
ENSMUSG00000004160	Pcca	-2.37	0.00	0.00	0.44	0.02	0.30	-0.16	0.18	1.00	propionyl-Coenzyme A carboxylase, alpha polypeptide [Source:MGJ Symbol:Acc:MGJ:97499]
ENSMUSG00000003943	Slc9a8	-2.11	0.00	0.00	0.34	0.02	0.31	0.05	0.73	1.00	solute carrier family 9 (sodium/hydrogen exchanger), member 8 [Source:MGJ Symbol:Acc:MGJ:1924281]
ENSMUSG00000004668	Abca13	-2.45	0.00	0.00	0.10	0.76	1.00	-0.11	0.45	1.00	ATP-binding cassette, sub-family A (ABC1), member 13 [Source:MGJ Symbol:Acc:MGJ:2388707]
ENSMUSG000000026417	Pgr	-1.40	0.00	0.00	0.16	0.08	0.70	-0.57	0.00	0.24	polymeric immunoglobulin receptor [Source:MGJ Symbol:Acc:MGJ:103080]
ENSMUSG000000034897	Fras1	-2.57	0.00	0.00	0.64	0.03	0.59	0.07	0.43	1.00	trafficking protein particle complex 9 [Source:MGJ Symbol:Acc:MGJ:1923760]
ENSMUSG00000003308	Dpyf	-1.58	0.00	0.00	0.20	0.59	1.00	-0.36	0.02	1.00	dihydroxyproline dehydrogenase [Source:MGJ Symbol:Acc:MGJ:2139667]
ENSMUSG00000007504	Slc22a29	-3.98	0.00	0.00	0.89	0.14	1.00	-0.40	0.11	1.00	solute carrier family 22, member 29 [Source:MGJ Symbol:Acc:MGJ:3605624]
ENSMUSG00000002638	F13b	-2.04	0.00	0.00	0.54	0.01	0.12	-0.36	0.01	1.00	coagulation factor XIII, beta subunit [Source:MGJ Symbol:Acc:MGJ:88379]
ENSMUSG00000002081	Ace	-1.46	0.00	0.00	0.29	0.03	0.36	-0.03	0.78	1.00	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1 [Source:MGJ Symbol:Acc:MGJ:87874]
ENSMUSG00000003306	Lpp	-2.22	0.00	0.00	0.36	0.15	1.00	0.21	0.14	1.00	LIM domain containing preferred translocation partner in lipoma [Source:MGJ Symbol:Acc:MGJ:2441849]
ENSMUSG00000003826	Car14	-2.15	0.00	0.00	0.50	0.03	0.34	-0.32	0.03	1.00	carbonic anhydrase 14 [Source:MGJ Symbol:Acc:MGJ:1344341]
ENSMUSG000000034897	Fras1	-2.57	0.00	0.00	0.64	0.03	0.59	0.07	0.68	1.00	Fraser syndrome 1 homolog (human) [Source:MGJ Symbol:Acc:MGJ:2385368]
ENSMUSG000000032758	Fras1	-1.39	0.00	0.00	0.34	0.00	0.06	0.24	0.00	0.51	kidney androgen regulated protein [Source:MGJ Symbol:Acc:MGJ:36653]
ENSMUSG00000004359	mt-Tg	-5.17	0.00	0.00	0.18	0.86	1.00	-1.16	0.03	1.00	mitochondrially encoded tRNA glycine [Source:MGJ Symbol:Acc:MGJ:102486]
ENSMUSG00000003290	Apeh	-1.22	0.00	0.00	0.29	0.01	0.12	0.01	0.90	1.00	acylpeptide hydrolase [Source:MGJ Symbol:Acc:MGJ:88041]
ENSMUSG00000002545	Cybl	-2.40	0.00	0.00	0.65	0.02	0.27	-0.02	0.93	1.00	citrate lyase beta like [Source:MGJ Symbol:Acc:MGJ:1916884]
ENSMUSG000000021416	Eoc3	-1.58	0.00	0.00	0.32	0.04	0.41	0.09	0.45	1.00	enoyl-Coenzyme A delta isomerase 3 [Source:MGJ Symbol:Acc:MGJ:1916637]
ENSMUSG00000006361	mt-T	-4.96	0.00	0.00	1.00	1.00	-1.12	0.04	1.00	1.00	mitochondrially encoded tRNA arginine [Source:MGJ Symbol:Acc:MGJ:102476]
ENSMUSG000000032721	503p411D12Rik	-1.30	0.00	0.00	-0.39	0.01	0.16	-0.63	0.00	0.00	Riken cDNA 503p411D12 gene [Source:MGJ Symbol:Acc:MGJ:192321]
ENSMUSG00000004210	Dmgth	-1.48	0.00	0.00	0.37	0.01	0.16	0.43	0.02	1.00	dimethylglycine dehydrogenase precursor [Source:MGJ Symbol:Acc:MGJ:1921379]
ENSMUSG00000002629	Sgp2	-2.02	0.00	0.00	0.42	0.05	0.54	-0.12	0.41	1.00	secreted phosphoprotein 2 [Source:MGJ Symbol:Acc:MGJ:1922646]
ENSMUSG000000085711	Gm15163	-1.74	0.00	0.00	0.45	0.01	0.21	-0.25	0.07	1.00	predicted gene 15163 [Source:MGJ Symbol:Acc:MGJ:3642430]
ENSMUSG000000001424	Snd1	-2.62	0.00	0.00	0.57	0.11	0.87	0.03	0.88	1.00	staphylococcal nuclease and tudor domain containing 1 [Source:MGJ Symbol:Acc:MGJ:1929266]
ENSMUSG000000023951	Vegfa	-1.13	0.00	0.00	0.25	0.02	0.26	-0.15	0.14	1.00	vascular endothelial growth factor A [Source:MGJ Symbol:Acc:MGJ:103178]
ENSMUSG000000021745	Ptprg	-2.70	0.00	0.00	0.47	0.27	1.00	0.04	0.83	1.00	protein tyrosine phosphatase, receptor type, G [Source:MGJ Symbol:Acc:MGJ:97814]
ENSMUSG000000029482	Aux1	-1.00	0.00	0.00	0.39	0.01	0.11	-0.27	0.11	1.00	N-acetyltransferase 8B [Source:MGJ Symbol:Acc:MGJ:3644481]
ENSMUSG000000014230	Fars2	-3.22	0.00	0.00	0.97	0.03	0.32	0.05	0.85	1.00	phenylalanine-tRNA synthetase 2 (mitochondrial) [Source:MGJ Symbol:Acc:MGJ:1917205]
ENSMUSG000000039007	Pgcp	-1.95	0.00	0.00	0.07	0.87	1.00	-0.17	0.28	1.00	plasma glutamate carboxypeptidase [Source:MGJ Symbol:Acc:MGJ:1889205]
ENSMUSG000000028080	LrbA	-1.82	0.00	0.00	0.37	0.09	0.75	0.04	0.85	1.00	LPS-responsive beige-like anchor [Source:MGJ Symbol:Acc:MGJ:1933162]
ENSMUSG000000063436	mt-Th	-4.03	0.00	0.00	-0.08	0.90	1.00	-0.67	0.10	1.00	mitochondrially encoded tRNA histidine [Source:MGJ Symbol:Acc:MGJ:102485]
ENSMUSG000000048911	Rnl24	-2.01	0.00	0.00	0.34	0.10	0.80	0.78	0.00	0.07	ring finger protein 24 [Source:MGJ Symbol:Acc:MGJ:1261771]
ENSMUSG000000029705	Cux1	-1.37	0.00	0.00	0.29	0.06	0.58	-0.10	0.41	1.00	cut-like homeobox 1 [Source:MGJ Symbol:Acc:MGJ:88586]
ENSMUSG000000029482	Aux1	-1.70	0.00	0.00	0.25	0.15	1.00	0.32	0.11	1.00	acetylacetyl-CoA synthetase [Source:MGJ Symbol:Acc:MGJ:1926144]
ENSMUSG000000029728	Lbr1	-1.43	0.00	0.00	0.35	0.15	0.80	0.16	0.54	1.00	carbonic anhydrase 4 [Source:MGJ Symbol:Acc:MGJ:2442264]
ENSMUSG000000043635	mt-Ts2	-3.79	0.00	0.00	-0.12	0.83	1.00	-0.64	0.12	1.00	mitochondrially encoded tRNA serine 2 [Source:MGJ Symbol:Acc:MGJ:102474]
ENSMUSG000000030963	Umod	-1.11	0.00	0.00	0.09	0.51	1.00	-0.15	0.06	1.00	uromodulin [Source:MGJ Symbol:Acc:MGJ:102674]
ENSMUSG000000043635	mt-Tk	-5.41	0.00	0.00	0.04	1.00	1.00	-0.23	0.67	1.00	mitochondrially encoded tRNA lysine [Source:MGJ Symbol:Acc:MGJ:102483]
ENSMUSG000000097815	AC136215.1	-0.91	0.00	0.00	-0.07	0.44	1.00	0.01	0.97	1.00	0
ENSMUSG000000046876	Abn1	-2.92	0.00	0.00	1.20	0.00	0.05	-0.34	0.21	1.00	ataxin 1 [Source:MGJ Symbol:Acc:MGJ:104783]
ENSMUSG000000026415	Fcrl1	-2.80	0.00	0.00	0.81	0.05	0.50	-0.26	0.10	1.00	Fc receptor, IgA, IgM, high affinity [Source:MGJ Symbol:Acc:MGJ:1927803]
ENSMUSG000000029728	Lbr1	-2.19	0.00	0.00	0.63	0.06	0.62	0.14	0.43	1.00	Fc epsilon receptor 1-like [Source:MGJ Symbol:Acc:MGJ:1362507]
ENSMUSG000000037646	Vps13b	-2.52	0.00	0.00	0.54	0.15	1.00	-0.03	0.86	1.00	vacuolar protein sorting 13B (yeast) [Source:MGJ Symbol:Acc:MGJ:1916300]
ENSMUSG000000024357	Sl1	-2.97	0.00	0.00	0.90	0.04	0.44	-0.03	0.95	1.00	endoplasmic reticulum chaperone SIL1 homolog (S. cerevisiae) [Source:MGJ Symbol:Acc:MGJ:1932040]
ENSMUSG000000021665	Hexb	-1.00	0.00	0.00	0.15	0.14	1.00	-0.19	0.07	1.00	hexosaminidase B [Source:MGJ Symbol:Acc:MGJ:96074]
ENSMUSG000000064353	mt-Td	-5.24	0.00	0.00	-1.32	0.04	0.47	0.18	0.73	1.00	mitochondrially encoded tRNA aspartic acid [Source:MGJ Symbol:Acc:MGJ:102489]
ENSMUSG000000028976	Slc2a5	-1.79	0.00	0.00	0.64	0.00	0.08	-0.39	0.02	1.00	solute carrier family 2 (facilitated glucose transporter), member 5 [Source:MGJ Symbol:Acc:MGJ:1928369]
ENSMUSG000000060459	Kng2	-1.00	0.00	0.00	0.21	0.07	0.65	-0.11	0.31	1.00	kininogen 2 [Source:MGJ Symbol:Acc:MGJ:3027157]
ENSMUSG000000029728	Lbr1	-1.58	0.00	0.00	0.63	0.01	0.11	-0.27	0.54	1.00	carbonic anhydrase 4 [Source:MGJ Symbol:Acc:MGJ:1096574]
ENSMUSG000000043760	Pkhd1	-1.28	0.00	0.00	0.40	0.01	0.12	-0.11	0.42	1.00	polycystic kidney and hepatic disease 1 [Source:MGJ Symbol:Acc:MGJ:2155808]
ENSMUSG000000039304	Tmf10	-1.73	0.00	0.00	0.39	0.09	0.74	0.25	0.10	1.00	tumor necrosis factor (ligand) superfamily, member 10 [Source:MGJ Symbol:Acc:MGJ:107414]
ENSMUSG000000043636	mt-T2	-3.38	0.00	0.00	-0.31	0.29	1.00	-0.59	0.15	1.00	mitochondrially encoded tRNA leucine 2 [Source:MGJ Symbol:Acc:MGJ:102481]
ENSMUSG000000024766	Lipol1	-1.82	0.00	0.00	0.23	0.39	1.00	-0.02	0.96	1.00	lipase, member O1 [Source:MGJ Symbol:Acc:MGJ:2147582]
ENSMUSG000000025089	Gfr1	-3.86	0.00	0.00	1.43	0.03	0.35	0.01	1.00	1.00	glial cell line derived neurotrophic factor family receptor alpha 1 [Source:MGJ Symbol:Acc:MGJ:1100842]
ENSMUSG000000032527	hcbf	-0.66	0.00	0.00	0.21	0.02	0.21	-0.22	0.03	1.00	propionyl Coenzyme A carboxylase, beta polypeptide [Source:MGJ Symbol:Acc:MGJ:1914154]
ENSMUSG000000029728	Lbr1	-2.19	0.00	0.00	0.63	0.01	0.11	-0.20	0.54	1.00	carbonic anhydrase 4 [Source:MGJ Symbol:Acc:MGJ:106428]
ENSMUSG000000052139	Bre	-2.73	0.00	0.00	0.73	0.11	0.87	-0.13	0.57	1.00	brain and reproductive organ-expressed protein [Source:MGJ Symbol:Acc:MGJ:1333875]
ENSMUSG000000035472	Slc25a21	-5.19	0.00	0.00	2.29	0.07	0.62	-0.18	0.58	1.00	solute carrier family 25 (mitochondrial oxodicarboxylate carrier), member 21 [Source:MGJ Symbol:Acc:MGJ:2445059]
ENSMUSG000000058690	Gcap14	-0.98	0.00	0.00	0.17	0.12	0.90	0.05	0.66	1.00	granule cell antiserum positive 14 [Source:MGJ Symbol:Acc:MGJ:101859]
ENSMUSG000000025137	Pcyt2	-0.91	0.00	0.00	0.24	0.02	0.26	-0.17	0.10	1.00	phosphate cytidyltransferase 2, ethanolamine [Source:MGJ Symbol:Acc:MGJ:1915921]
ENSMUSG000000021322	Aoah	-2.04	0.00	0.00	0.83	0.00	0.08	-0.06	0.77	1.00	acyloxyacyl hydrolase [Source:MGJ Symbol:Acc:MGJ:1350928]
ENSMUSG000000032287	Itp2	-1.84	0.00	0.00	0.56	0.03	0.39	-0.25	0.17	1.00	inositol 1,4,5-trisphosphate receptor 2 [Source:MGJ Symbol:Acc:MGJ:99418]
ENSMUSG000000029728	Lbr1	-1.58	0.00	0.00	0.63	0.01	0.11	-0.27	0.54	1.00	carbonic anhydrase 4 [Source:MGJ Symbol:Acc:MGJ:1333771]
ENSMUSG000000040640	Erc2	-2.82	0.00	0.00	0.85	0.21	1.00	0.11	0.62	1.00	ELK/RAB-interacting/CAST family member 2 [Source:MGJ Symbol:Acc:MGJ:1098749]
ENSMUSG000000038497	Tmco3	-1.31	0.00	0.00	0.39	0.02	0.25	0.26	0.05	1.00	transmembrane and coiled-coil domains 3 [Source:MGJ Symbol:Acc:MGJ:2444946]
ENSMUSG000000051177	Picb1	-3.29	0.00	0.00	0.68	0.31	1.00	0.05	0.87	1.00	phospholipase C, beta 1 [Source:MGJ Symbol:Acc:MGJ:97613]
ENSMUSG000000021081	Serpinaf1	-1.54	0.00	0.00	0.55	0.01	0.16	-0.29	0.08	1.00	serine (or cysteine) peptidase inhibitor, clade A, member 1F [Source:MGJ Symbol:Acc:MGJ:1915588]
ENSMUSG000000027957	Slc35a3	-1.08	0.00	0.00	0.35	0.01	0.12	0.06	0.66	1.00	solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member 3 [Source:MGJ Symbol:Acc:MGJ:1917648]
ENSMUSG000000072575	Eidm3b	-3.04	0.00	0.00	0.23	0.84	1.00	-0.25	0.33	1.00	epididymal protein 3B [Source:MGJ Symbol:Acc:MGJ:268492]
ENSMUSG000000029728	Lbr1	-1.58	0.00	0.00	0.63	0.01	0.11	-0.27	0.54	1.00	carbonic anhydrase 4 [Source:MGJ Symbol:Acc:MGJ

ENSMUSG00000052305	Hbb-b1	-2.16	0.00	0.00	0.20	0.41	1.00	-0.16	0.66	1.00	hemoglobin, beta adult major chain [Source:MGI Symbol:Acc:MGI:96021]
ENSMUSG00000015474	Pp2i	-0.94	0.00	0.01	0.15	0.28	1.00	0.21	0.09	1.00	palmitoyl-protein thioesterase 2 [Source:MGI Symbol:Acc:MGI:1860075]
ENSMUSG00000022836	Myk	-1.13	0.00	0.03	0.13	0.51	1.00	-0.09	0.57	1.00	myosin, light polypeptide kinase [Source:MGI Symbol:Acc:MGI:894908]
ENSMUSG00000009594	Hbb-2	-2.18	0.00	0.00	0.30	0.24	1.00	-0.07	0.87	1.00	hemoglobin alpha, adult chain 2 [Source:MGI Symbol:Acc:MGI:96016]
ENSMUSG00000003823	Crot	-0.60	0.00	0.00	0.12	0.13	0.95	0.25	0.00	0.93	carnitine O-octanoyltransferase [Source:MGI Symbol:Acc:MGI:1921364]
ENSMUSG000000024575	Pde6a	-3.46	0.00	0.00	0.49	0.77	1.00	-0.14	0.68	1.00	phosphodiesterase 6A, cGMP-specific, rod, alpha [Source:MGI Symbol:Acc:MGI:97524]
ENSMUSG000000044674	Fzd1	-1.19	0.00	0.00	0.37	0.05	0.53	-0.20	0.22	1.00	frizzled homolog 1 (Drosophila) [Source:MGI Symbol:Acc:MGI:1196625]
ENSMUSG000000090213	Tmem189	-0.75	0.00	0.00	0.29	0.00	0.05	0.17	0.15	1.00	transmembrane protein 189 [Source:MGI Symbol:Acc:MGI:2142624]
ENSMUSG00000006919	Hba-a1	-2.17	0.00	0.00	0.30	0.25	1.00	-0.06	0.87	1.00	hemoglobin alpha, adult chain 1 [Source:MGI Symbol:Acc:MGI:96015]
ENSMUSG000000023923	Tbc1d5	-2.93	0.00	0.00	1.02	0.08	0.68	-0.01	1.00	1.00	TBC1 domain family, member 5 [Source:MGI Symbol:Acc:MGI:1919488]
ENSMUSG00000000939	Hbb-1	-1.18	0.00	0.00	0.30	0.24	1.00	-0.07	0.87	1.00	hemoglobin beta, adult chain 1 [Source:MGI Symbol:Acc:MGI:97495]
ENSMUSG000000045095	Mag1	-2.72	0.00	0.00	0.53	0.44	1.00	-0.13	0.72	1.00	membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:MGI Symbol:Acc:MGI:1203622]
ENSMUSG000000024391	Apom	-1.15	0.00	0.00	0.48	0.01	0.09	-0.24	0.14	1.00	apolipoprotein M [Source:MGI Symbol:Acc:MGI:1930124]
ENSMUSG000000028465	Tin1	-0.66	0.00	0.00	0.14	0.13	0.96	-0.09	0.37	1.00	talin 1 [Source:MGI Symbol:Acc:MGI:1099832]
ENSMUSG000000035699	Osta	-1.24	0.00	0.00	0.43	0.01	0.09	0.24	0.17	1.00	organic solute transporter alpha [Source:MGI Symbol:Acc:MGI:2146634]
ENSMUSG000000030654	Atf6p1	-0.60	0.00	0.00	0.03	0.64	1.00	-0.02	0.87	1.00	ADP-ribosylation factor-like E interacting protein 1 [Source:MGI Symbol:Acc:MGI:1858943]
ENSMUSG000000036330	Slc18a1	-1.16	0.00	0.00	-0.07	0.78	1.00	0.23	0.14	1.00	solute carrier family 18 (vesicular monoamine), member 1 [Source:MGI Symbol:Acc:MGI:106684]
ENSMUSG00000003142	Nkuf1	-2.73	0.00	0.00	0.54	0.42	1.00	-0.07	0.86	1.00	nucleotide binding protein-like [Source:MGI Symbol:Acc:MGI:1924076]
ENSMUSG000000045038	Pknox	-2.70	0.00	0.00	0.43	0.69	1.00	-0.14	0.66	1.00	protein kinase C, epsilon [Source:MGI Symbol:Acc:MGI:97599]
ENSMUSG000000024757	Slc22a19	-1.08	0.00	0.00	0.11	0.56	1.00	-0.17	0.25	1.00	solute carrier family 22 (organic anion transporter), member 19 [Source:MGI Symbol:Acc:MGI:2442751]
ENSMUSG000000049858	Suox	-1.06	0.00	0.00	0.37	0.02	0.31	-0.08	0.60	1.00	sulfite oxidase [Source:MGI Symbol:Acc:MGI:2446117]
ENSMUSG000000020475	Abhd3	-1.08	0.00	0.00	0.35	0.04	0.46	0.04	0.81	1.00	abhydrolase domain containing 3 [Source:MGI Symbol:Acc:MGI:2147183]
ENSMUSG000000040558	Ndr2g	-1.07	0.00	0.00	0.42	0.01	0.19	0.00	1.00	1.00	N-myc downstream regulated gene 2 [Source:MGI Symbol:Acc:MGI:1352498]
ENSMUSG000000058325	Dock1	-1.46	0.00	0.00	-0.06	0.85	1.00	0.00	1.00	1.00	dedicator of cytokinesis 1 [Source:MGI Symbol:Acc:MGI:2429765]
ENSMUSG000000028336	Tom1f2	-0.99	0.00	0.00	0.31	0.02	0.22	-0.09	0.50	1.00	target of myb1-like 2 (chicken) [Source:MGI Symbol:Acc:MGI:2433306]
ENSMUSG000000030770	Hbb-3	-0.99	0.00	0.00	0.42	0.01	0.11	0.00	1.00	1.00	hemoglobin beta, adult chain 3 [Source:MGI Symbol:Acc:MGI:1931144]
ENSMUSG000000044349	Snhg11	-0.83	0.00	0.00	-0.01	1.00	1.00	-0.19	0.18	1.00	small nuclear RNA host gene 11 [Source:MGI Symbol:Acc:MGI:2441845]
ENSMUSG000000051517	Ahgef39	-2.55	0.00	0.00	1.21	0.01	0.17	-0.11	0.72	1.00	Rho guanine nucleotide exchange factor (GEF) 39 [Source:MGI Symbol:Acc:MGI:3036286]
ENSMUSG000000031703	Iltf1	-0.83	0.00	0.00	0.33	0.01	0.12	0.09	0.47	1.00	integrin alpha FG-GAP repeat containing 1 [Source:MGI Symbol:Acc:MGI:106419]
ENSMUSG000000035765	Dym	-2.45	0.00	0.00	1.08	0.02	0.26	0.07	0.86	1.00	dymectin [Source:MGI Symbol:Acc:MGI:1918480]
ENSMUSG000000027363	Usp8	-0.77	0.00	0.00	0.26	0.02	0.30	0.10	0.39	1.00	ubiquitin specific peptidase 8 [Source:MGI Symbol:Acc:MGI:1934029]
ENSMUSG000000043628	Ctsh	-0.45	0.00	0.00	0.36	0.05	0.10	-0.07	0.66	1.00	0.37
ENSMUSG000000034544	Rerc1	-3.05	0.00	0.00	0.39	0.80	1.00	0.02	1.00	1.00	arginine/serine-rich coiled-coil 1 [Source:MGI Symbol:Acc:MGI:1914130]
ENSMUSG000000027679	Dnajc19	-1.09	0.00	0.00	0.51	0.00	0.06	0.11	0.47	1.00	DnaJ (Hsp40) homolog, subfamily C, member 19 [Source:MGI Symbol:Acc:MGI:1914963]
ENSMUSG000000044444	Pfn3	-2.33	0.00	0.00	0.77	0.12	0.90	-0.01	1.00	1.00	profilin 3 [Source:MGI Symbol:Acc:MGI:2178800]
ENSMUSG0000000089781	Gm15756	-1.33	0.00	0.00	0.65	0.00	0.07	0.06	0.78	1.00	predicted gene 15756 [Source:MGI Symbol:Acc:MGI:3783199]
ENSMUSG000000015451	C4a	-1.67	0.00	0.00	0.12	0.73	1.00	-0.22	0.31	1.00	complement component 4A (Rodgers blood group) [Source:MGI Symbol:Acc:MGI:98320]
ENSMUSG000000028332	Papps1	-1.00	0.00	0.00	0.37	0.02	0.29	0.38	0.01	1.00	3-phosphoadenosine 5-phosphosulfate synthase 1 [Source:MGI Symbol:Acc:MGI:1330587]
ENSMUSG000000004386	C3orf2	-0.68	0.00	0.00	0.33	0.05	0.22	-0.06	0.77	1.00	signal receptor (docking protein) [Source:MGI Symbol:Acc:MGI:1914648]
ENSMUSG000000020576	Nbas	-2.16	0.00	0.00	1.06	0.01	0.16	-0.04	0.93	1.00	neuroblastoma amplified sequence [Source:MGI Symbol:Acc:MGI:1918419]
ENSMUSG000000051864	Tbc1d22a	-2.11	0.00	0.00	0.56	0.25	1.00	-0.14	0.61	1.00	TBC1 domain family, member 22a [Source:MGI Symbol:Acc:MGI:1289265]
ENSMUSG000000026839	Upp2	-2.74	0.00	0.00	0.72	0.31	1.00	0.38	0.15	1.00	uridine phosphorylase 2 [Source:MGI Symbol:Acc:MGI:1923904]
ENSMUSG0000000084058	Gm15263	-6.58	0.00	0.00	0.19	1.00	1.00	-5.49	0.00	0.00	predicted gene 15263 [Source:MGI Symbol:Acc:MGI:3705753]
ENSMUSG000000035919	Bbs9	-3.63	0.00	0.00	0.18	1.00	1.00	-0.07	0.91	1.00	Bardet-Biedl syndrome 9 (human) [Source:MGI Symbol:Acc:MGI:2442833]
ENSMUSG000000031119	Gpc4	-0.94	0.00	0.00	0.47	0.01	0.10	0.07	0.68	1.00	glypican 4 [Source:MGI Symbol:Acc:MGI:104902]
ENSMUSG000000010025	Ahd3c2	-0.68	0.00	0.00	0.65	0.02	0.22	-0.06	0.82	1.00	aldehyde dehydrogenase family 3, subfamily A2 [Source:MGI Symbol:Acc:MGI:1353452]
ENSMUSG000000020664	Herc4	-1.14	0.00	0.00	0.58	0.01	0.18	0.13	0.40	1.00	transhyretin [Source:MGI Symbol:Acc:MGI:98865]
ENSMUSG000000020064	Herc2	-1.01	0.00	0.00	0.39	0.02	0.27	0.06	0.68	1.00	hect domain and RLD 4 [Source:MGI Symbol:Acc:MGI:1914595]
ENSMUSG000000066258	Trtm12a	-1.63	0.00	0.00	0.29	0.44	1.00	0.22	0.31	1.00	tripartite motif-containing 12A [Source:MGI Symbol:Acc:MGI:1923931]
ENSMUSG000000049799	Lrc19	-0.70	0.00	0.00	0.27	0.01	0.17	0.05	0.71	1.00	leucine rich repeat containing 19 [Source:MGI Symbol:Acc:MGI:2140219]
ENSMUSG000000078622	Ccdc47	-0.88	0.00	0.00	0.20	0.18	1.00	0.03	0.83	1.00	coiled-coil domain containing 47 [Source:MGI Symbol:Acc:MGI:1914413]
ENSMUSG000000023019	Gpdt1	-0.52	0.00	0.00	0.11	0.12	0.94	-0.09	0.34	1.00	glycerol-3-phosphate dehydrogenase 1 (soluble) [Source:MGI Symbol:Acc:MGI:95679]
ENSMUSG000000004038	Chn2	-2.26	0.00	0.00	0.83	0.05	0.55	-0.10	0.80	1.00	chimerin (chimaerin) 2 [Source:MGI Symbol:Acc:MGI:1917243]
ENSMUSG000000030030	Ctsh2b	-2.68	0.00	0.00	0.51	0.52	1.00	0.14	0.44	1.00	coiled-coil domain containing 6 [Source:MGI Symbol:Acc:MGI:1913348]
ENSMUSG000000052005	Dock8	-1.18	0.00	0.00	0.49	0.02	0.29	0.14	0.44	1.00	dedicator of cytokinesis 8 [Source:MGI Symbol:Acc:MGI:1921396]
ENSMUSG000000043789	Vwce	-2.54	0.00	0.00	1.19	0.02	0.31	-0.11	0.77	1.00	von Willebrand factor C and EGF domains [Source:MGI Symbol:Acc:MGI:1919018]
ENSMUSG000000027559	Car3	-2.52	0.00	0.00	0.47	0.58	1.00	-0.13	0.69	1.00	carbonic anhydrase 3 [Source:MGI Symbol:Acc:MGI:88270]
ENSMUSG000000053333	Dlx3l2	-2.35	0.00	0.00	0.55	0.38	1.00	-0.05	0.93	1.00	DlX3 mitotic control homolog (S. cerevisiae)-like 2 [Source:MGI Symbol:Acc:MGI:2442555]
ENSMUSG000000008455	1810059H2Rk	-1.63	0.00	0.00	0.84	0.01	0.09	-0.21	0.37	1.00	RIKEN cDNA 1810059H22 gene [Source:MGI Symbol:Acc:MGI:1917070]
ENSMUSG000000025607	Dggh2	-1.39	0.00	0.00	0.74	0.00	0.06	-0.02	0.95	1.00	coatomer protein complex, subunit gamma 2 [Source:MGI Symbol:Acc:MGI:1858683]
ENSMUSG000000002177	Ch22h17	-0.97	0.00	0.00	0.51	0.01	0.18	0.04	0.40	1.00	ribonucleoside diphosphate kinase 17 [Source:MGI Symbol:Acc:MGI:1289248]
ENSMUSG000000073609	Cpzhg	-0.78	0.00	0.00	0.55	0.02	0.25	-0.11	0.54	1.00	D-2-hydroxyglutarate dehydrogenase [Source:MGI Symbol:Acc:MGI:2138209]
ENSMUSG000000019989	Enpp3	-1.06	0.00	0.00	0.36	0.07	0.62	0.06	0.74	1.00	ectonucleotide pyrophosphatase/phosphodiesterase 3 [Source:MGI Symbol:Acc:MGI:2143702]
ENSMUSG000000026727	Rsu1	-1.80	0.00	0.00	0.28	0.53	1.00	-0.15	0.58	1.00	Ras suppressor protein 1 [Source:MGI Symbol:Acc:MGI:103040]
ENSMUSG000000008962	Gm16039	-1.24	0.00	0.00	0.64	0.00	0.07	0.11	0.58	1.00	predicted gene 16039 [Source:MGI Symbol:Acc:MGI:3840148]
ENSMUSG000000032098	Trh	-0.91	0.00	0.00	0.39	0.01	0.18	-0.01	1.00	1.00	trehalase (brush-border membrane glycoprotein) [Source:MGI Symbol:Acc:MGI:1926230]
ENSMUSG000000020279	Lmf1	-2.01	0.00	0.00	0.78	0.08	0.68	-0.14	0.60	1.00	inase maturation factor 1 [Source:MGI Symbol:Acc:MGI:1923733]
ENSMUSG0000000032263	Chn2b	-5.56	0.00	0.00	0.41	0.01	1.00	-0.01	0.40	1.00	ribonucleoside diphosphate kinase 17 [Source:MGI Symbol:Acc:MGI:1289248]
ENSMUSG0000000031708	Tecr	-0.75	0.00	0.00	0.32	0.01	0.14	-0.10	0.44	1.00	trans-2,3-enoyl-CoA reductase [Source:MGI Symbol:Acc:MGI:1915408]
ENSMUSG000000014418	Hps5	-0.86	0.00	0.00	0.39	0.01	0.13	0.06	0.69	1.00	Hermansky-Pudlak syndrome 5 homolog (human) [Source:MGI Symbol:Acc:MGI:2180307]
ENSMUSG000000032263	Bckkbb	-1.07	0.00	0.00	0.12	0.57	1.00	-0.03	0.88	1.00	branched chain ketoacid dehydrogenase E1, beta polypeptide [Source:MGI Symbol:Acc:MGI:88137]
ENSMUSG000000020429	Igfbp1	-2.73	0.00	0.00	0.43	0.63	1.00	-1.17	0.00	0.75	insulin-like growth factor binding protein 1 [Source:MGI Symbol:Acc:MGI:96436]
ENSMUSG000000028755	Cda	-0.84	0.00	0.00	0.40	0.00	0.05	0.02	0.90	1.00	cytidine deaminase [Source:MGI Symbol:Acc:MGI:1919519]
ENSMUSG000000041351	Rap1ap	-0.90	0.00	0.00	0.16	0.35	1.00	-0.31	0.10	1.00	Rap1 GTPase-activating protein [Source:MGI Symbol:Acc:MGI:109338]
ENSMUSG000000032473	D430042009Rk	-1.87	0.00	0.00	0.88	0.03	0.38	-0.06	0.86	1.00	RIKEN cDNA D430042009 gene [Source:MGI Symbol:Acc:MGI:2442760]
ENSMUSG000000008559	Gm14437	-2.13	0.00	0.00	0.95	0.04	0.44	-0.18	0.57	1.00	predicted gene 14437 [Source:MGI Symbol:Acc:MGI:3652089]
ENSMUSG000000011522	Cyp29b	-1.66	0.00	0.00	0.01	0.12	0.06	-0.05	0.18	1.00	collagen, type IV, alpha 2 [Source:MGI Symbol:Acc:MGI:88456]

ENSMUSG00000015750	Aph1a	-0.62	0.00	0.00	0.10	0.41	1.00	-0.07	0.58	1.00	anterior pharynx defective 1a homolog (C. elegans) [Source:MGI Symbol;Acc:MGI:2385110]
ENSMUSG000000086297	Gm15632	-1.37	0.00	0.00	0.46	0.13	0.96	0.07	0.77	1.00	predicted gene 15632 [Source:MGI Symbol;Acc:MGI:3783076]
ENSMUSG00000001993	Mippp	-1.12	0.00	0.00	0.62	0.01	0.10	0.08	0.66	1.00	mitochondrial intermediate peptidase [Source:MGI Symbol;Acc:MGI:1917728]
ENSMUSG00000004213	Cb2	-0.96	0.00	0.00	0.49	0.01	0.18	0.02	0.96	1.00	cystine-conjugate-beta lyase 2 [Source:MGI Symbol;Acc:MGI:2877849]
ENSMUSG00000003169	Sap30	-1.15	0.00	0.00	0.14	0.66	1.00	0.24	0.22	1.00	sn3 associated polypeptide [Source:MGI Symbol;Acc:MGI:1929129]
ENSMUSG00000006004	Tmem26	-2.31	0.00	0.00	0.77	0.25	1.00	-0.25	0.49	1.00	transmembrane protein 26 [Source:MGI Symbol;Acc:MGI:2143537]
ENSMUSG000000027195	Hsd17b12	-0.84	0.00	0.00	0.37	0.02	0.29	0.08	0.61	1.00	hydroxysteroid (17-beta) dehydrogenase 12 [Source:MGI Symbol;Acc:MGI:1926676]
ENSMUSG000000058740	Kcnt1	-1.32	0.00	0.00	0.39	0.20	1.00	-0.20	0.37	1.00	potassium channel, subfamily T, member 1 [Source:MGI Symbol;Acc:MGI:1924627]
ENSMUSG000000047193	Dync2h1	-1.59	0.00	0.00	0.75	0.03	0.39	0.18	0.52	1.00	dynein cytoplasmic 2 heavy chain 1 [Source:MGI Symbol;Acc:MGI:107736]
ENSMUSG000000046352	Glyc2	-0.86	0.00	0.00	0.14	0.38	1.00	0.01	0.97	1.00	gap junction protein, beta 2 [Source:MGI Symbol;Acc:MGI:95720]
ENSMUSG00000004213	Cb2	-0.96	0.00	0.00	0.49	0.01	0.18	0.02	0.96	1.00	thiamine S-methyltransferase 2 [Source:MGI Symbol;Acc:MGI:2443927]
ENSMUSG000000037347	Chat7	-1.50	0.00	0.00	0.62	0.07	0.65	0.26	0.28	1.00	carbohydrate (N-acetylglucosamine) sulfotransferase 7 [Source:MGI Symbol;Acc:MGI:1891767]
ENSMUSG000000029189	Sal13	-0.68	0.00	0.00	0.31	0.02	0.25	-0.19	0.14	1.00	sal-1 suppressor of lin-12 like 3 (C. elegans) [Source:MGI Symbol;Acc:MGI:1916941]
ENSMUSG000000062202	Btd9	-1.43	0.00	0.00	0.41	0.23	1.00	0.08	0.76	1.00	BTB (POZ) domain containing 9 [Source:MGI Symbol;Acc:MGI:1916625]
ENSMUSG000000027710	Acad9	-0.73	0.00	0.00	0.27	0.06	0.56	0.15	0.29	1.00	acyl-Coenzyme A dehydrogenase family, member 9 [Source:MGI Symbol;Acc:MGI:1914272]
ENSMUSG000000052062	Par3b	-2.49	0.00	0.00	0.07	1.00	1.00	-0.08	0.91	1.00	par-3 partitioning defective 3 homolog B (C. elegans) [Source:MGI Symbol;Acc:MGI:1919301]
ENSMUSG000000091192	Gm17071	-1.88	0.00	0.00	0.76	0.01	0.18	-0.03	0.94	1.00	predicted gene 17071 [Source:MGI Symbol;Acc:MGI:4937898]
ENSMUSG000000038944	Klf16b	-1.27	0.00	0.00	0.63	0.02	0.29	0.04	0.89	1.00	kinesin family member 16B [Source:MGI Symbol;Acc:MGI:1098240]
ENSMUSG000000028258	Dnajc6	-1.48	0.00	0.00	0.77	0.02	0.24	0.36	0.11	1.00	DnaJ (Hsp40) homolog, subfamily C, member 6 [Source:MGI Symbol;Acc:MGI:1919355]
ENSMUSG000000040269	Mrs26	-1.80	0.00	0.00	0.93	0.02	0.29	0.08	0.85	1.00	mitochondrial ribosomal protein S28 [Source:MGI Symbol;Acc:MGI:1913480]
ENSMUSG000000064127	Med14	-0.80	0.00	0.00	0.43	0.01	0.11	-0.29	0.04	1.00	mediator complex subunit 14 [Source:MGI Symbol;Acc:MGI:1349442]
ENSMUSG000000034007	Scaper	-2.72	0.00	0.00	0.59	0.61	1.00	0.01	1.00	1.00	S phase cyclin A-associated protein in the ER [Source:MGI Symbol;Acc:MGI:1925976]
ENSMUSG000000021186	Ftnb5	-1.06	0.00	0.00	0.11	0.64	1.00	0.01	1.00	1.00	fibulin 5 [Source:MGI Symbol;Acc:MGI:1346091]
ENSMUSG000000013539	D1H4225680E	-0.87	0.00	0.00	0.37	0.04	0.41	0.00	1.00	1.00	DNA segment, Chr 16, human D225680E, expressed [Source:MGI Symbol;Acc:MGI:101825]
ENSMUSG000000009129	CS3037F22Rik	-2.23	0.00	0.00	0.79	0.20	1.00	-0.03	1.00	1.00	RIKEN cDNA CS3037F22 gene [Source:MGI Symbol;Acc:MGI:2442827]
ENSMUSG000000068740	Cb2	-0.73	0.00	0.00	0.49	0.25	1.00	0.25	0.90	1.00	cadherin, EGF LAG surface type 2 (flamingo homolog, Drosophila) [Source:MGI Symbol;Acc:MGI:1858235]
ENSMUSG000000050965	Prkca	-2.14	0.00	0.00	0.07	1.00	1.00	0.10	0.76	1.00	protein kinase C, alpha [Source:MGI Symbol;Acc:MGI:97595]
ENSMUSG000000052176	Hogai1	-0.59	0.00	0.00	0.18	0.11	0.84	-0.04	0.75	1.00	4-hydroxy-2-oxoglutarate aldolase 1 [Source:MGI Symbol;Acc:MGI:1914682]
ENSMUSG000000019297	2610027L16Rik	-0.55	0.00	0.00	0.20	0.04	0.45	0.02	0.85	1.00	RIKEN cDNA 2610027L16 gene [Source:MGI Symbol;Acc:MGI:1915092]
ENSMUSG000000036452	Arhgap26	-1.88	0.00	0.00	0.39	0.37	1.00	-0.10	0.78	1.00	Rho GTPase activating protein 26 [Source:MGI Symbol;Acc:MGI:1918552]
ENSMUSG000000063652	Slc22a21	-0.80	0.00	0.00	0.47	0.01	0.09	-0.08	0.88	1.00	solute carrier family 22 (organic cation transporter), member 21 [Source:MGI Symbol;Acc:MGI:1929481]
ENSMUSG000000004922	Slc22a1	-1.60	0.00	0.00	0.82	0.01	0.01	-0.25	0.01	1.00	lysine transporter 1 [Source:MGI Symbol;Acc:MGI:192684]
ENSMUSG000000026623	Lgcat1	-0.60	0.00	0.00	0.28	0.03	0.31	0.19	0.11	1.00	lysophosphatidylglycerol acyltransferase 1 [Source:MGI Symbol;Acc:MGI:2446186]
ENSMUSG000000008734	AW495222	-1.46	0.00	0.00	0.35	0.36	1.00	-0.38	0.15	1.00	expressed sequence AW495222 [Source:MGI Symbol;Acc:MGI:2145435]
ENSMUSG000000024371	C2	-0.55	0.00	0.00	0.26	0.01	0.11	-0.21	0.08	1.00	complement component 2 (within H-2S) [Source:MGI Symbol;Acc:MGI:88226]
ENSMUSG000000002371	Ccdc90a	-0.56	0.00	0.00	0.31	0.00	0.06	0.13	0.25	1.00	coiled-coil domain containing 90A [Source:MGI Symbol;Acc:MGI:1923387]
ENSMUSG000000039186	Akap7	-2.39	0.00	0.00	0.72	0.40	1.00	-0.13	0.82	1.00	A kinase (PRKA) anchor protein 7 [Source:MGI Symbol;Acc:MGI:1859150]
ENSMUSG000000039221	Rpl22b1	-1.03	0.00	0.00	0.16	0.58	1.00	-0.01	1.00	1.00	rDNA sequence, Chr 12, like 1 [Source:MGI Symbol;Acc:MGI:1915278]
ENSMUSG000000004922	Slc12a4	-1.79	0.00	0.00	0.54	0.02	0.28	-0.05	0.65	1.00	similarly 190, member A [Source:MGI Symbol;Acc:MGI:3045354]
ENSMUSG000000059027	963013D21Rik	-1.90	0.00	0.00	0.76	0.13	0.95	-0.03	0.92	1.00	RIKEN cDNA 963013D21 gene [Source:MGI Symbol;Acc:MGI:2442649]
ENSMUSG000000020859	Spag9	-0.58	0.00	0.00	0.27	0.02	0.21	0.10	0.40	1.00	sperm associated antigen 9 [Source:MGI Symbol;Acc:MGI:1918084]
ENSMUSG000000021763	BC067074	-1.37	0.00	0.00	0.28	0.45	1.00	-0.02	1.00	1.00	cDNA sequence BC067074 [Source:MGI Symbol;Acc:MGI:3040697]
ENSMUSG000000042942	Greb11	-1.95	0.00	0.00	0.91	0.04	0.47	-0.51	0.16	1.00	growth regulation by estrogen in breast cancer-like [Source:MGI Symbol;Acc:MGI:3576497]
ENSMUSG000000038831	Ralgap1	-1.94	0.00	0.00	1.11	0.02	0.25	0.04	1.00	1.00	Ral GEF with PH domain and SH3 binding motif 1 [Source:MGI Symbol;Acc:MGI:1922008]
ENSMUSG000000001957	Ak32-ps	-1.70	0.00	0.00	0.74	0.08	0.71	0.54	0.03	1.00	adenylate kinase 3-like 2, pseudogene [Source:MGI Symbol;Acc:MGI:3574349]
ENSMUSG000000002922	Wip1	-1.79	0.00	0.00	0.54	0.02	0.28	-0.05	0.65	1.00	WIP repeat domain, phosphoinositide interacting 1 [Source:MGI Symbol;Acc:MGI:1915284]
ENSMUSG000000022199	Slc22a17	-1.11	0.00	0.00	0.42	0.23	1.00	0.35	0.95	1.00	solute carrier family 22 (organic cation transporter), member 17 [Source:MGI Symbol;Acc:MGI:1926225]
ENSMUSG000000048264	Dip2c	-1.03	0.00	0.00	0.80	0.06	0.57	-0.03	1.00	1.00	DIP2 disco-interacting protein 2 homolog C (Drosophila) [Source:MGI Symbol;Acc:MGI:1920179]
ENSMUSG000000039530	Tusc3	-0.99	0.00	0.00	0.43	0.04	0.46	-0.08	0.69	1.00	tumor suppressor candidate 3 [Source:MGI Symbol;Acc:MGI:1933134]
ENSMUSG000000002707	Galk2	-1.03	0.00	0.00	0.62	0.00	0.07	-0.04	0.90	1.00	galactokinase 2 [Source:MGI Symbol;Acc:MGI:1917226]
ENSMUSG000000031558	Slit2	-1.50	0.00	0.00	0.49	0.19	1.00	-0.02	1.00	1.00	slit homolog 2 (Drosophila) [Source:MGI Symbol;Acc:MGI:1315205]
ENSMUSG000000031168	Ebp	-0.85	0.00	0.00	0.27	0.13	0.97	-0.01	1.00	1.00	phenylalkylamine Ca2+ antagonist (emopamil) binding protein [Source:MGI Symbol;Acc:MGI:107822]
ENSMUSG000000025922	Slc9a2	-1.11	0.00	0.00	0.69	0.00	0.07	0.03	0.95	1.00	solute carrier family 9 (sodium/hydrogen exchanger), member 2 [Source:MGI Symbol;Acc:MGI:105075]
ENSMUSG000000016630	AL653049.1	-0.85	0.00	0.00	0.29	0.12	0.90	0.03	0.88	0.00	unclassified protein family 22 (organic cation transporter)
ENSMUSG000000039678	Tlctd13	-0.61	0.00	0.00	0.29	0.02	0.24	-0.15	0.26	1.00	TBC1 domain family, member 13 [Source:MGI Symbol;Acc:MGI:2385326]
ENSMUSG00000004424	Tlc3c	-1.16	0.00	0.00	0.56	0.03	0.36	0.25	0.21	1.00	tetratricopeptide repeat domain 39C [Source:MGI Symbol;Acc:MGI:1919997]
ENSMUSG000000058756	Thra	-0.81	0.00	0.00	0.39	0.02	0.25	-0.26	0.12	1.00	thyroid hormone receptor alpha [Source:MGI Symbol;Acc:MGI:98742]
ENSMUSG000000019820	Utrn	-1.01	0.00	0.00	0.08	0.81	1.00	0.03	0.90	1.00	utrophin [Source:MGI Symbol;Acc:MGI:104631]
ENSMUSG000000025724	Sec11a	-0.76	0.00	0.00	0.39	0.01	0.12	0.33	0.04	1.00	SEC11 homolog A (S. cerevisiae) [Source:MGI Symbol;Acc:MGI:1929464]
ENSMUSG000000004922	Slc12a4	-1.79	0.00	0.00	0.29	0.07	0.66	0.05	0.80	1.00	solute carrier family 12, member 4 (nonselective cation transporter), member 4 [Source:MGI Symbol;Acc:MGI:2385163]
ENSMUSG000000064639	Gm15788	-1.38	0.00	0.00	0.32	0.09	0.74	0.04	1.00	1.00	predicted gene 15788 [Source:MGI Symbol;Acc:MGI:3783230]
ENSMUSG000000024697	Gnat14	-2.28	0.00	0.00	1.47	0.01	0.12	0.29	0.41	1.00	guanine nucleotide binding protein, alpha 14 [Source:MGI Symbol;Acc:MGI:95769]
ENSMUSG000000062054	Iah1	-0.97	0.00	0.00	0.41	0.06	0.57	-0.05	0.86	1.00	isoamyl acetate-hydrolyzing esterase 1 homolog (S. cerevisiae) [Source:MGI Symbol;Acc:MGI:1914982]
ENSMUSG000000002702	Slc12a1	-0.67	0.00	0.00	0.12	0.48	1.00	-0.10	0.53	1.00	solute carrier family 12, member 1 [Source:MGI Symbol;Acc:MGI:103150]
ENSMUSG000000038267	Gm122a23	-0.83	0.00	0.00	0.27	0.13	0.97	-0.27	0.12	1.00	solute carrier family 22, member 23 [Source:MGI Symbol;Acc:MGI:1920352]
ENSMUSG0000000098329	Gm14233	-1.70	0.00	0.00	0.29	0.55	1.00	0.56	0.03	1.00	predicted gene 14233 [Source:MGI Symbol;Acc:MGI:3705115]
ENSMUSG000000046603	DEEN4402a	-0.57	0.00	0.00	0.51	0.01	0.10	0.31	0.06	1.00	DNA segment, Chr 9, ERATO D04_402, expressed [Source:MGI Symbol;Acc:MGI:196217]
ENSMUSG000000004922	Slc22a1	-1.41	0.00	0.00	0.29	0.09	0.74	0.04	1.00	1.00	protein phosphatase 1, regulatory subunit 1A [Source:MGI Symbol;Acc:MGI:2442401]
ENSMUSG000000064138	Fam72t	-2.84	0.00	0.00	0.37	0.80	1.00	-0.07	1.00	1.00	family with sequence similarity 172, member A [Source:MGI Symbol;Acc:MGI:1915925]
ENSMUSG000000028836	Slc30a2	-0.84	0.00	0.00	0.47	0.01	0.10	0.21	0.19	1.00	solute carrier family 30 (zinc transporter), member 2 [Source:MGI Symbol;Acc:MGI:106637]
ENSMUSG000000029173	Seppscs	-0.89	0.00	0.00	0.29	0.15	1.00	0.07	0.71	1.00	SeP (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA synthase [Source:MGI Symbol;Acc:MGI:1098791]
ENSMUSG000000096917	AC130841.1	-1.61	0.00	0.00	0.69	0.09	0.74	0.05	0.93	1.00	0
ENSMUSG000000005142	Man2b1	-0.59	0.00	0.00	0.12	0.33	1.00	-0.31	0.02	1.00	mannosidase 2, alpha B1 [Source:MGI Symbol;Acc:MGI:107286]
ENSMUSG000000048371	Fbp2	-1.15	0.00	0.00	0.57	0.03	0.35	0.06	0.83	1.00	pyruvate dehydrogenase phosphatase catalytic subunit 2 [Source:MGI Symbol;Acc:MGI:1918878]
ENSMUSG000000004922	Ahd4	-0.78	0.00	0.00	0.30	0.02	0.24	0.10	0.42	1.00	lysine phosphatase 1 [Source:MGI Symbol;Acc:MGI:1915566]
ENSMUSG000000045962	Wnk1	-0.42	0.00	0.00	0.15	0.08	0.68	0.13	0.24	1.00	WNK lysine deficient protein kinase 1 [Source:MGI Symbol;Acc:MGI:2442092]
ENSMUSG000000009291	Pttg1p	-0.41	0.00	0.00	0.04	0.59	1.00	-0.16	0.09	1.00	pituitary tumor-transforming 1 interacting protein [Source:MGI Symbol;Acc:MGI:2852132]
ENSMUSG000000009603	Gm17694	-1.68	0.00	0.00	0.71	0.10	0.81	-0.30	0.32	1.00	predicted gene 7694 [Source:MGI Symbol;Acc:MGI:3649135]
ENSMUSG000000023861	Mpc1	-0.45	0.00	0.00	0.25	0.00	0.07	0.06	0.59	1.00	mitochondrial pyruvate carrier 1 [Source:MGI Symbol;Acc:MGI:1915240]
ENSMUSG000000021594	Slr5a1	-1.52	0.00	0.00	0.37	0.37	1.00	-0.08	0.79	1.00	steroid 5 alpha-reductase 1 [Source:MGI Symbol;Acc:MGI:98400]
ENSMUSG000000049560	Wdr7	-1.50	0.00	0.00	0.91	0.01	0.11	0.08	0.80	1.00	WDR repeat domain 7 [Source:MGI Symbol;Acc:MGI:1860197]
ENSMUSG000000004922	Slc12a1	-0.69	0.00	0.00	0.12	0.48	1.00	-0.10	0.53	1.00	solute carrier family 12, member 1 [Source:MGI Symbol;Acc:MGI:103150]
ENSMUSG000000029291	Ryf3	-0.87	0.00	0.00	0.33	0.10	0.80	0.03	0.88	1.00	RUN and FYVE domain containing 3 [Source:MGI Symbol;Acc:MGI:106464]
ENSMUSG000000020111	Mcu1	-0.96	0.00	0.00	0.61	0.00	0.06				

ENSMUSG00000022672	Pkdc	-1.58	0.00	0.00	0.68	0.08	0.71	0.12	0.71	1.00	protein kinase, DNA activated, catalytic polypeptide [Source:MGI Symbol:Acc:MGI:104779]
ENSMUSG00000039218	Sirm2	-0.35	0.00	0.00	0.00	0.99	1.00	-0.02	0.85	1.00	serine/arginine repetitive matrix 2 [Source:MGI Symbol:Acc:MGI:1923206]
ENSMUSG00000006610	Slc37a1	-0.47	0.00	0.00	0.22	0.02	0.30	0.08	0.47	1.00	solute carrier family 31, member 1 [Source:MGI Symbol:Acc:MGI:1333843]
ENSMUSG00000007162	Slc2574	-0.34	0.00	0.00	0.17	0.00	0.06	0.01	1.05	1.00	predicted pseudogene 2574 [Source:MGI Symbol:Acc:MGI:1919096]
ENSMUSG00000035441	Myo1d	-0.97	0.00	0.00	0.16	0.56	1.00	-0.11	0.64	1.00	myosin ID [Source:MGI Symbol:Acc:MGI:107728]
ENSMUSG000000081772	Gm13131	-1.06	0.00	0.00	0.62	0.01	0.21	0.16	0.45	1.00	predicted gene 13131 [Source:MGI Symbol:Acc:MGI:3651062]
ENSMUSG00000017978	Cadps2	-2.57	0.00	0.00	0.39	0.77	1.00	0.06	1.00	1.00	Ca ²⁺ -dependent activator protein for secretion 2 [Source:MGI Symbol:Acc:MGI:2443963]
ENSMUSG000000020623	Map2k6	-1.45	0.00	0.00	0.69	0.07	0.66	0.11	0.66	1.00	mitogen-activated protein kinase kinase 6 [Source:MGI Symbol:Acc:MGI:1346870]
ENSMUSG00000006574	Slc4a1	-0.95	0.00	0.00	0.13	0.63	1.00	-0.15	0.51	1.00	solute carrier family 4 (anion exchanger), member 1 [Source:MGI Symbol:Acc:MGI:109393]
ENSMUSG00000025404	R3hdm2	-0.69	0.00	0.00	0.44	0.00	0.07	0.01	0.97	1.00	R3H domain containing 2 [Source:MGI Symbol:Acc:MGI:1919000]
ENSMUSG00000007162	Slc2574	-1.10	0.00	0.00	0.17	0.06	0.06	0.01	1.05	1.00	predicted pseudogene 2574 [Source:MGI Symbol:Acc:MGI:1919096]
ENSMUSG00000006468	Slc34a3	-0.91	0.00	0.00	0.44	0.05	0.49	-0.24	0.21	1.00	solute carrier family 34 (sodium phosphate), member 3 [Source:MGI Symbol:Acc:MGI:2159410]
ENSMUSG000000029819	Npy	-1.22	0.00	0.00	0.40	0.25	1.00	-0.19	0.51	1.00	neuropeptide Y [Source:MGI Symbol:Acc:MGI:97374]
ENSMUSG000000079501	Gm5138	-0.33	0.00	0.00	0.17	0.01	0.12	0.00	0.98	1.00	predicted gene 5138 [Source:MGI Symbol:Acc:MGI:3779464]
ENSMUSG000000041144	Dnahc7b	-2.46	0.00	0.00	0.65	0.45	1.00	-0.05	1.00	1.00	dynein, axonemal, heavy chain 7B [Source:MGI Symbol:Acc:MGI:2684953]
ENSMUSG000000032076	Cadm1	-1.45	0.00	0.00	0.62	0.61	1.00	0.16	0.70	1.00	cell adhesion molecule 1 [Source:MGI Symbol:Acc:MGI:189272]
ENSMUSG000000085297	Gm11651	-2.37	0.00	0.00	0.23	0.61	1.00	-0.02	1.00	1.00	predicted gene 11651 [Source:MGI Symbol:Acc:MGI:3651203]
ENSMUSG000000022419	Arlks1	-0.84	0.00	0.00	0.39	0.06	0.57	-0.27	0.14	1.00	ankyrin repeat and SAM domain containing 1 [Source:MGI Symbol:Acc:MGI:2446180]
ENSMUSG000000020309	Chac2	-0.91	0.00	0.00	0.41	0.06	0.60	0.19	0.31	1.00	Chac, cation transport regulator 2 [Source:MGI Symbol:Acc:MGI:1915294]
ENSMUSG000000034108	Ccs	-0.61	0.00	0.00	0.33	0.01	0.20	0.05	0.77	1.00	copper chaperone for superoxide dismutase [Source:MGI Symbol:Acc:MGI:1333783]
ENSMUSG000000056666	Retsat	-0.54	0.00	0.00	0.30	0.01	0.12	-0.12	0.36	1.00	retinol saturase (all trans retinol 13,14 reductase) [Source:MGI Symbol:Acc:MGI:1914692]
ENSMUSG000000030621	Mea3	-0.84	0.00	0.00	0.11	0.67	1.00	-0.05	0.86	1.00	malic enzyme 3, NAD(P) ⁺ -dependent, mitochondrial [Source:MGI Symbol:Acc:MGI:1916679]
ENSMUSG000000031283	Chrd1l	-2.28	0.00	0.00	1.33	0.04	0.40	-0.46	0.18	1.00	chordin-like 1 [Source:MGI Symbol:Acc:MGI:1933172]
ENSMUSG000000019845	1700040L2Rk	-2.21	0.00	0.00	0.49	0.50	1.00	0.09	0.90	1.00	RIKEN cDNA 1700040L2 gene [Source:MGI Symbol:Acc:MGI:1920537]
ENSMUSG000000032956	Lmi2	-0.80	0.00	0.00	0.53	0.00	0.07	0.07	0.71	1.00	myeloid lymphoid leukemia 3 [Source:MGI Symbol:Acc:MGI:2444959]
ENSMUSG000000053303	Slc22a26	-1.27	0.00	0.00	-0.10	0.71	1.00	0.27	0.91	1.00	solute carrier family 22 (organic cation transporter), member 26 [Source:MGI Symbol:Acc:MGI:2385316]
ENSMUSG000000027706	Sec2a	-0.38	0.00	0.00	0.20	0.01	0.16	0.08	0.44	1.00	SEC22 homolog (S. cerevisiae) [Source:MGI Symbol:Acc:MGI:1916526]
ENSMUSG000000037470	Enpp1	-1.00	0.00	0.00	0.40	0.11	0.88	-0.11	0.63	1.00	ectonucleotide pyrophosphatase/phosphodiesterase 1 [Source:MGI Symbol:Acc:MGI:97370]
ENSMUSG000000079484	Phyh1	-0.72	0.00	0.00	0.41	0.01	0.14	-0.07	0.65	1.00	phytanoyl-CoA dioxygenase domain containing 1 [Source:MGI Symbol:Acc:MGI:3612986]
ENSMUSG000000027601	Mif1	-0.56	0.00	0.00	0.24	0.06	0.56	0.11	0.41	1.00	mitochondrial fission regulator 1 [Source:MGI Symbol:Acc:MGI:1914722]
ENSMUSG000000022875	Kng1	-1.04	0.00	0.00	0.22	0.46	1.00	-0.08	0.77	1.00	kininogen 1 [Source:MGI Symbol:Acc:MGI:1097705]
ENSMUSG000000023959	Cmlt2	-0.80	0.00	0.00	0.26	0.25	1.00	-0.24	0.25	1.00	RF-3a protein 2 [Source:MGI Symbol:Acc:MGI:1924223]
ENSMUSG000000025616	Tm9d3	-0.38	0.00	0.00	0.21	0.01	0.10	0.13	0.15	1.00	transmembrane 9 superfamily member 3 [Source:MGI Symbol:Acc:MGI:1914262]
ENSMUSG000000002029	Atp6v1b1	-0.73	0.00	0.00	0.24	0.17	1.00	-0.02	0.93	1.00	ATPase, H ⁺ transporting, lysosomal V1 subunit B1 [Source:MGI Symbol:Acc:MGI:103285]
ENSMUSG000000025728	Piqg	-0.44	0.00	0.00	0.20	0.04	0.45	0.00	1.00	1.00	phosphatidylinositol glycan anchor biosynthesis, class Q [Source:MGI Symbol:Acc:MGI:1333114]
ENSMUSG000000016252	Atp5e	-0.56	0.00	0.00	0.31	0.00	0.05	0.06	0.65	1.00	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, epsilon subunit [Source:MGI Symbol:Acc:MGI:1855697]
ENSMUSG000000021615	Xcc3	-2.53	0.00	0.00	0.74	0.42	1.00	-0.02	1.00	1.00	X-ray repair complementing defective repair in Chinese hamster cells 4 [Source:MGI Symbol:Acc:MGI:1333799]
ENSMUSG000000086800	C03000K06Rk	-1.70	0.00	0.00	0.93	0.05	0.55	0.04	1.00	1.00	RIKEN cDNA C03000K06 gene [Source:MGI Symbol:Acc:MGI:1925945]
ENSMUSG000000029196	Cnfp	-0.80	0.00	0.00	0.16	0.05	0.55	-0.13	1.00	1.00	myosin phosphatase Rho interacting protein [Source:MGI Symbol:Acc:MGI:1349438]
ENSMUSG000000071412	Cm4b	-1.29	0.00	0.00	0.27	0.42	1.00	0.10	1.00	1.00	calcium channel, voltage-dependent, beta 4 subunit [Source:MGI Symbol:Acc:MGI:103301]
ENSMUSG000000064346	mt-Tv	-1.97	0.00	0.00	-1.59	0.00	0.00	0.13	0.82	1.00	mitochondrially encoded RNA cytophan [Source:MGI Symbol:Acc:MGI:102471]
ENSMUSG000000051355	Comm1d	-0.65	0.00	0.00	0.06	0.76	1.00	0.00	1.00	1.00	COMM domain containing 1 [Source:MGI Symbol:Acc:MGI:109474]
ENSMUSG000000036792	Mbd5	-1.75	0.00	0.00	0.78	0.12	0.90	0.06	0.92	1.00	methyl-CpG binding domain protein 5 [Source:MGI Symbol:Acc:MGI:2138934]
ENSMUSG000000029650	Slc46a3	-1.74	0.00	0.00	0.59	0.32	1.00	0.24	0.47	1.00	solute carrier family 46, member 3 [Source:MGI Symbol:Acc:MGI:1918956]
ENSMUSG000000022338	Ely2	-0.70	0.00	0.00	0.24	0.16	1.00	0.09	0.59	1.00	enhancer of yellow 2 homolog (Drosophila) [Source:MGI Symbol:Acc:MGI:1919286]
ENSMUSG000000005514	Chmp1	-0.42	0.00	0.00	0.08	0.37	1.00	0.10	0.35	1.00	P450 (cytochrome) oxidoreductase [Source:MGI Symbol:Acc:MGI:37744]
ENSMUSG000000029186	Pdgfrd	-1.78	0.00	0.00	0.27	0.80	1.00	-0.09	0.91	1.00	platelet-derived growth factor, D receptor [Source:MGI Symbol:Acc:MGI:1919035]
ENSMUSG000000024228	Nudt12	-0.73	0.00	0.00	0.25	0.16	1.00	0.05	0.77	1.00	nucleic acid (nucleoside diphosphate linked moiety X)-type motif 12 [Source:MGI Symbol:Acc:MGI:1915243]
ENSMUSG000000043300	B3galt1	-2.04	0.00	0.00	0.36	0.68	1.00	-0.05	1.00	1.00	UDP-GalNAc:beta-GlcNAc beta 1-3-galactosaminyltransferase, polypeptide 1 [Source:MGI Symbol:Acc:MGI:1349405]
ENSMUSG000000087303	Lipo2	-2.08	0.00	0.00	0.34	0.66	1.00	0.04	1.00	1.00	lipase, member O2 [Source:MGI Symbol:Acc:MGI:3644466]
ENSMUSG000000071528	Usmg5	-0.58	0.00	0.00	0.32	0.01	0.14	0.15	0.26	1.00	upregulated during skeletal muscle growth 5 [Source:MGI Symbol:Acc:MGI:1891435]
ENSMUSG000000031483	Eflin2	-0.49	0.00	0.00	0.23	0.04	0.41	0.08	0.51	1.00	ER lipid raft associated 2 [Source:MGI Symbol:Acc:MGI:2387215]
ENSMUSG000000023990	Cm9f	-0.64	0.00	0.00	0.31	0.04	0.43	-0.25	0.10	1.00	cyclin-dependent kinase-like 1 (CDC2-related kinase) [Source:MGI Symbol:Acc:MGI:1918341]
ENSMUSG000000028291	Cm3339	-0.32	0.00	0.00	0.27	0.01	0.12	-0.02	0.64	1.00	predicted gene 3339 [Source:MGI Symbol:Acc:MGI:3650221]
ENSMUSG000000029823	Luc7l2	-0.46	0.00	0.00	0.26	0.01	0.15	0.03	0.81	1.00	LUC7-like 2 (S. cerevisiae) [Source:MGI Symbol:Acc:MGI:2183260]
ENSMUSG000000049799	Gm11602	-0.79	0.00	0.00	0.37	0.06	0.56	0.12	0.52	1.00	predicted gene 11602 [Source:MGI Symbol:Acc:MGI:3651861]
ENSMUSG000000026526	Fh1	-0.42	0.00	0.00	0.26	0.00	0.05	0.08	0.41	1.00	fumarate hydratase 1 [Source:MGI Symbol:Acc:MGI:95530]
ENSMUSG000000029534	Sl7	-1.73	0.00	0.00	0.73	0.15	1.00	0.06	0.92	1.00	suppression of tumorigenicity 7 [Source:MGI Symbol:Acc:MGI:1927405]
ENSMUSG000000046314	Sbbp6	-1.27	0.00	0.00	0.87	0.01	0.10	-0.05	0.93	1.00	xrann binding protein 6 (arnixin) [Source:MGI Symbol:Acc:MGI:2384963]
ENSMUSG000000055500	Fmnl1	-0.63	0.00	0.00	0.28	0.05	0.55	0.24	0.99	1.00	formin-like 1 [Source:MGI Symbol:Acc:MGI:1888994]
ENSMUSG00000001180	Tm9d3	-0.43	0.00	0.00	0.27	0.80	1.00	-0.22	0.91	1.00	transmembrane protein 9 (five membrane-spanning domains) [Source:MGI Symbol:Acc:MGI:1926283]
ENSMUSG000000007243	Gm10358	-0.33	0.00	0.00	0.17	0.01	0.17	0.03	0.98	1.00	predicted gene 10358 [Source:MGI Symbol:Acc:MGI:3708786]
ENSMUSG000000028136	Snu27	-0.60	0.00	0.00	0.31	0.03	0.37	0.19	0.18	1.00	sorting nexin family member 27 [Source:MGI Symbol:Acc:MGI:1923992]
ENSMUSG000000029161	Cgref1	-0.48	0.00	0.00	0.15	0.16	1.00	-0.06	0.63	1.00	cell growth regulator with EF hand domain 1 [Source:MGI Symbol:Acc:MGI:1915817]
ENSMUSG000000081933	Gm14767	-1.80	0.00	0.00	1.10	0.02	0.26	0.24	0.52	1.00	predicted gene 14767 [Source:MGI Symbol:Acc:MGI:3705402]
ENSMUSG000000020857	Nme2	-0.42	0.00	0.00	0.17	0.01	0.21	0.01	0.95	1.00	NME/NM2 nucleoside diphosphate kinase 2 [Source:MGI Symbol:Acc:MGI:97356]
ENSMUSG000000028944	Hag2	-0.98	0.00	0.00	0.53	0.03	0.38	-0.18	0.43	1.00	nuclear transport factor 2-like export factor 2 [Source:MGI Symbol:Acc:MGI:1336153]
ENSMUSG000000029182	Chchd2	-0.67	0.00	0.00	0.28	0.09	0.75	-0.06	0.64	1.00	chondrichthyan homeobox domain containing 2 [Source:MGI Symbol:Acc:MGI:1072631]
ENSMUSG0000000033769	Evoc6b	-1.50	0.00	0.00	0.28	0.66	1.00	0.04	1.00	1.00	exocyst complex component 6B [Source:MGI Symbol:Acc:MGI:1923164]
ENSMUSG000000022490	Ppp1r1a	-0.61	0.00	0.00	0.02	0.95	1.00	-0.08	0.58	1.00	protein phosphatase 1, regulatory (inhibitor) subunit 1A [Source:MGI Symbol:Acc:MGI:1889595]
ENSMUSG000000002365	Snu9	-0.64	0.00	0.00	0.25	0.11	0.84	-0.03	0.86	1.00	sorting nexin 9 [Source:MGI Symbol:Acc:MGI:1913866]
ENSMUSG000000041248	Kcnj1	-0.46	0.00	0.00	0.08	0.50	1.00	0.04	0.92	1.00	potassium inwardly-rectifying channel, subfamily J, member 1 [Source:MGI Symbol:Acc:MGI:1922748]
ENSMUSG000000003559	As3mt	-0.70	0.00	0.00	0.38	0.03	0.36	-0.03	0.72	1.00	arsenic (+3 oxidation state) methyltransferase [Source:MGI Symbol:Acc:MGI:1929882]
ENSMUSG000000042771	Nkx2	-0.70	0.00	0.00	0.31	0.08	0.70	0.06	0.77	1.00	nuclear transport factor 2-like export factor 2 [Source:MGI Symbol:Acc:MGI:2147914]
ENSMUSG000000002924	Ctcf1b2	-0.83	0.00	0.00	0.27	0.09	0.72	-0.06	0.64	1.00	transmembrane protein 2 [Source:MGI Symbol:Acc:MGI:1919900]
ENSMUSG000000009664	Gstk1	-0.76	0.00	0.00	0.44	0.02	0.28	-0.11	0.57	1.00	glutathione S-transferase kappa 1 [Source:MGI Symbol:Acc:MGI:1923513]
ENSMUSG000000093245	SNORD59	-0.48	0.00	0.00	0.22	0.05	0.52	0.11	0.35	1.00	Small nuclear RNA SNORD59 [Source:RFAM:Acc:RF00273]
ENSMUSG000000021000	Ctag5	-0.38	0.00	0.00	0.14	0.08	0.72	0.07	0.48	1.00	CTAGE family, member 5 [Source:MGI Symbol:Acc:MGI:1346056]
ENSMUSG000000026185	Igf1bp5	-0.65	0.00	0.00	-0.04	0.71	1.00	-0.18	0.27	1.00	insulin-like growth factor binding protein 5 [Source:MGI Symbol:Acc:MGI:96440]
ENSMUSG000000028834	Trim63	-1.67	0.00	0.00	0.74	0.12	0.90	0.03	1.00	1.00	tripartite motif-containing 63 [Source:MGI Symbol:Acc:MGI:2447992]
ENSMUSG000000021327	Zkscan3	-0.63	0.00	0.00	0.20	0.19	1.00	0.00	1.00	1.00	zinc finger with KRAB and SCAN domains 3 [Source:MGI Symbol:Acc:MGI:1919989]
ENSMUSG000000000823	Lmo2	-1.40	0.00	0.00	0.27	0.03	0.33	-0.28	0.42	1.00	limb domain protein 2 [Source:MGI Symbol:Acc:MGI:1919900]
ENSMUSG000000028618	Tmem59	-0.36	0.00	0.00	0.20	0.01	0.14	0.03	0.75	1.00	transmembrane protein 59 [Source:MGI Symbol:Acc:MGI:1929278]
ENSMUSG000000028488	Sh3gl2	-1.54	0.00	0.00	0.42	0.37	1.00				

ENSMUSG00000039047	Pik3	-0.75	0.00	0.00	0.38	0.07	0.64	0.10	0.60	1.00	phosphatidylinositol glycan anchor biosynthesis, class K [Source:MGI Symbol:Acc.MGI:1913863]
ENSMUSG00000048414	RP23-74N15.4	-1.65	0.00	0.00	0.47	0.41	1.00	-0.47	0.19	1.00	0
ENSMUSG00000048251	Bcl11b	-1.83	0.00	0.00	1.36	0.01	0.17	-0.04	1.00	1.00	B cell leukemia/lymphoma 11B [Source:MGI Symbol:Acc.MGI:1929313]
ENSMUSG00000004821	Islr2	-0.56	0.00	0.00	0.33	0.02	0.23	-0.04	1.00	1.00	immunoglobulin-like domain containing receptor 2 [Source:MGI Symbol:Acc.MGI:1196370]
ENSMUSG00000005089	Slc1a2	-2.26	0.00	0.00	0.70	0.33	1.00	-0.18	0.78	1.00	solute carrier family 1 (glial high affinity glutamate transporter), member 2 [Source:MGI Symbol:Acc.MGI:101931]
ENSMUSG00000029247	Paics	-0.37	0.00	0.00	0.25	0.00	0.07	0.06	0.53	1.00	phosphoribosylaminimidazole carboxylase, glutathioneS-transferase, succinocarbonyl synthetase [Source:MGI Symbol:Acc.MGI:1914304]
ENSMUSG00000005294	Cyp2f2	-2.02	0.00	0.00	0.71	0.29	1.00	-0.46	0.33	1.00	cytochrome P450, family 2, subfamily 1, polypeptide 2 [Source:MGI Symbol:Acc.MGI:88608]
ENSMUSG00000003963	Echdc3	-0.86	0.00	0.00	0.46	0.04	0.47	-0.07	0.74	1.00	enoyl Coenzyme A hydratase domain containing 3 [Source:MGI Symbol:Acc.MGI:1915106]
ENSMUSG00000003287	Nlyc	-0.63	0.00	0.00	0.32	0.04	0.45	-0.05	0.79	1.00	nuclear transcription factor-Y gamma [Source:MGI Symbol:Acc.MGI:107901]
ENSMUSG00000002797	Tfrc	-0.64	0.00	-0.24	0.18	1.00	0.08	0.67	0.60	1.00	transferrin receptor [Source:MGI Symbol:Acc.MGI:98822]
ENSMUSG00000004813	Islr1	-0.49	0.00	0.00	0.33	0.09	0.74	-0.04	0.94	1.00	immunoglobulin-like domain containing receptor 1 [Source:MGI Symbol:Acc.MGI:101937]
ENSMUSG00000025169	111003102Rk	-1.09	0.00	0.00	0.44	0.18	1.00	0.07	0.87	1.00	RIKEN cDNA 111003102 gene [Source:MGI Symbol:Acc.MGI:1913429]
ENSMUSG000000025825	Isou	-0.42	0.00	0.00	0.14	0.17	1.00	-0.08	0.50	1.00	IscU iron-sulfur cluster scaffold homolog (E. coli) [Source:MGI Symbol:Acc.MGI:1913633]
ENSMUSG000000038417	Fig4	-1.11	0.00	0.00	0.67	0.02	0.27	-0.05	0.87	1.00	FIG4 homolog (S. cerevisiae) [Source:MGI Symbol:Acc.MGI:2143585]
ENSMUSG000000028132	Tmem56	-0.90	0.00	0.00	0.16	0.55	1.00	0.03	0.95	1.00	transmembrane protein 56 [Source:MGI Symbol:Acc.MGI:1923195]
ENSMUSG000000030549	Rhcg	-0.64	0.00	0.00	0.26	0.11	0.85	-0.05	0.79	1.00	Rhesus blood group-associated C glycoprotein [Source:MGI Symbol:Acc.MGI:1888517]
ENSMUSG000000021240	Abcc4	-0.81	0.00	0.00	0.07	0.81	1.00	-0.19	0.35	1.00	ATP-binding cassette, sub-family D (ALD), member 4 [Source:MGI Symbol:Acc.MGI:1349217]
ENSMUSG000000030352	Tspan9	-0.69	0.00	0.00	0.33	0.08	0.71	-0.22	0.24	1.00	tetraspanin 9 [Source:MGI Symbol:Acc.MGI:1924558]
ENSMUSG000000059734	Ndufs8	-0.51	0.00	0.00	0.30	0.01	0.19	0.09	0.50	1.00	NADH dehydrogenase (ubiquinone) Fe-S protein 8 [Source:MGI Symbol:Acc.MGI:2385079]
ENSMUSG000000004245	Ndfip1	-0.43	0.00	0.00	0.17	1.00	0.83	0.06	0.62	1.00	Nedd4 family interacting protein 1 [Source:MGI Symbol:Acc.MGI:1929601]
ENSMUSG000000023266	Frs3	-1.25	0.00	0.00	0.65	0.07	0.63	-0.10	0.78	1.00	fibroblast growth factor receptor substrate 3 [Source:MGI Symbol:Acc.MGI:2135965]
ENSMUSG000000004370	Lym5	-0.64	0.00	0.00	0.37	0.02	0.28	0.10	0.55	1.00	Lyr motif containing 5 [Source:MGI Symbol:Acc.MGI:1914886]
ENSMUSG000000003174	Mgl1	-0.96	0.00	0.00	0.34	0.21	1.00	-0.27	0.28	1.00	monoglyceride lipase [Source:MGI Symbol:Acc.MGI:1346042]
ENSMUSG000000041921	Melap1d	-0.81	0.00	0.00	0.49	0.03	0.33	-0.14	0.47	1.00	methionyl aminopeptidase type 1D (mitochondrial) [Source:MGI Symbol:Acc.MGI:1913809]
ENSMUSG000000021830	Tm6b16	-0.71	0.00	0.00	0.37	0.10	0.63	0.06	0.85	1.00	thioredoxin domain containing 16 [Source:MGI Symbol:Acc.MGI:1917811]
ENSMUSG00000007931	Gm3222	-0.37	0.00	0.00	0.18	0.05	0.05	-0.02	1.00	1.00	predicted gene 3222 [Source:MGI Symbol:Acc.MGI:3781401]
ENSMUSG000000003854	Supt3h	-2.54	0.00	0.00	0.08	1.00	1.00	-0.02	1.00	1.00	suppressor of Ty 3 homolog (S. cerevisiae) [Source:MGI Symbol:Acc.MGI:1923723]
ENSMUSG00000007979	-	-0.35	0.00	0.00	0.16	0.04	0.41	0.00	0.99	1.00	0
ENSMUSG000000071711	Mpst	-0.64	0.00	0.00	0.33	0.04	0.43	-0.03	0.89	1.00	mercaptopyruvate sulfurtransferase [Source:MGI Symbol:Acc.MGI:2179733]
ENSMUSG000000030172	Erc1	-1.16	0.00	0.00	0.59	0.06	0.60	-0.30	0.25	1.00	ELKS/RAB6-interacting/CAST family member 1 [Source:MGI Symbol:Acc.MGI:2151013]
ENSMUSG000000018668	Insz2	-0.74	0.00	0.00	0.34	0.11	0.85	0.13	0.46	1.00	integrator complex subunit 2 [Source:MGI Symbol:Acc.MGI:1917672]
ENSMUSG000000007519	Tp2p2	-0.71	0.00	0.00	0.39	0.02	0.29	-0.02	1.00	1.00	transcription factor Tp 2 [Source:MGI Symbol:Acc.MGI:107107]
ENSMUSG000000005619	Cdnp1	-1.84	0.00	0.00	1.04	0.06	0.57	0.03	1.00	1.00	CDNK5 regulatory subunit associated protein 1-like 1 [Source:MGI Symbol:Acc.MGI:1921765]
ENSMUSG000000002404	Epb4.1i3	-1.34	0.00	0.00	0.10	0.89	1.00	-0.22	0.54	1.00	erythrocyte protein band 4.1-like 3 [Source:MGI Symbol:Acc.MGI:103008]
ENSMUSG000000058446	Znr2	-0.43	0.00	0.00	0.12	0.28	1.00	0.23	0.04	1.00	zinc and ring finger 2 [Source:MGI Symbol:Acc.MGI:1196246]
ENSMUSG000000057229	Atp5s1	-0.63	0.00	0.00	0.31	0.05	0.52	0.02	0.96	1.00	ATP5S-like [Source:MGI Symbol:Acc.MGI:1913599]
ENSMUSG000000031555	Adam9	-0.58	0.00	0.00	0.29	0.06	0.55	0.10	0.53	1.00	a disintegrin and metalloprotease domain 9 (meltrin gamma) [Source:MGI Symbol:Acc.MGI:105376]
ENSMUSG000000002456	Ap9b9	-0.81	0.00	0.00	0.48	0.03	0.34	-0.05	0.84	1.00	ATPase, class II, type 9B [Source:MGI Symbol:Acc.MGI:1354757]
ENSMUSG000000003678	Ucp2	-1.17	0.00	0.00	0.47	0.02	0.27	-0.05	0.62	1.00	UCP2 [Source:MGI Symbol:Acc.MGI:3645099]
ENSMUSG000000028393	Alad	-0.43	0.00	0.00	0.16	0.13	0.99	0.15	0.20	1.00	amino-leucinate, delta-, dehydratase [Source:MGI Symbol:Acc.MGI:96853]
ENSMUSG000000009282	AL928551.1	-2.20	0.00	0.00	0.70	0.45	1.00	-0.05	1.00	1.00	0
ENSMUSG000000022761	Lzr1	-0.41	0.00	0.00	0.20	0.04	0.43	-0.10	0.35	1.00	leucine-zipper-like transcriptional regulator, 1 [Source:MGI Symbol:Acc.MGI:1914111]
ENSMUSG0000000039458	Mtmr12	-0.69	0.00	0.00	0.34	0.07	0.64	-0.09	0.66	1.00	myotubularin related protein 12 [Source:MGI Symbol:Acc.MGI:2443034]
ENSMUSG000000031549	Ido2	-1.66	0.00	0.00	0.31	0.72	1.00	-0.13	0.73	1.00	indoleamine 2,3-dioxygenase 2 [Source:MGI Symbol:Acc.MGI:2142489]
ENSMUSG000000002454	D18Erd653e	-1.86	0.00	0.00	1.02	0.03	0.37	-0.02	1.00	1.00	DNA segment, Chr 18, ERATO Doi 653, expressed [Source:MGI Symbol:Acc.MGI:1277150]
ENSMUSG000000031012	Cask	-1.64	0.00	0.00	0.54	0.31	1.00	-0.11	0.62	1.00	calcium/calmodulin-dependent serine protein kinase (MAPK/JNK family) [Source:MGI Symbol:Acc.MGI:1309489]
ENSMUSG000000003953	Agouti	-1.60	0.00	0.00	0.32	0.24	1.00	-0.03	0.60	1.00	alpha-1,4-N-acetylglucosaminyl transferase 1 [Source:MGI Symbol:Acc.MGI:2143261]
ENSMUSG000000004210	Abhd14a	-0.93	0.00	0.00	0.55	0.03	0.34	-0.03	0.94	1.00	aldehyde dehydrogenase domain containing 14A [Source:MGI Symbol:Acc.MGI:1915894]
ENSMUSG000000008283	Gm15373	-1.06	0.00	0.00	0.40	0.18	1.00	-0.25	0.35	1.00	predicted gene 15373 [Source:MGI Symbol:Acc.MGI:3707583]
ENSMUSG000000004976	2410015M20Rk	-0.56	0.00	0.00	0.31	0.03	0.34	-0.06	0.70	1.00	RIKEN cDNA 2410015M20 gene [Source:MGI Symbol:Acc.MGI:2442174]
ENSMUSG0000000032652	Creb2	-0.73	0.00	0.00	0.32	0.10	0.84	-0.02	0.95	1.00	cAMP responsive element binding protein-like 2 [Source:MGI Symbol:Acc.MGI:1889385]
ENSMUSG000000002030	Cepb4	-0.90	0.00	0.00	0.35	0.00	0.08	-0.12	0.41	1.00	cytoplasmic polyadenylation element binding protein 4 [Source:MGI Symbol:Acc.MGI:1914829]
ENSMUSG000000004270	Tp2p1	-3.16	0.00	0.00	1.40	0.29	1.00	-0.09	1.00	1.00	BTB and CNC homology 2 [Source:MGI Symbol:Acc.MGI:684679]
ENSMUSG000000003638	Gm3538	-1.54	0.00	0.00	0.49	0.00	0.68	-0.06	0.17	1.00	predicted pseudogene 3538 [Source:MGI Symbol:Acc.MGI:1923033]
ENSMUSG0000000055639	Dach1	-1.27	0.00	0.00	0.48	0.25	1.00	-0.02	1.00	1.00	dachshund 1 (Drosophila) [Source:MGI Symbol:Acc.MGI:1277991]
ENSMUSG000000031987	Egln1	-0.61	0.00	0.00	0.20	0.25	1.00	-0.03	0.89	1.00	EGLN1 gene homolog 1 (C. elegans) [Source:MGI Symbol:Acc.MGI:1932286]
ENSMUSG000000021910	Nisch	-0.32	0.00	0.00	0.16	0.03	0.39	-0.01	0.94	1.00	nischarin [Source:MGI Symbol:Acc.MGI:1928323]
ENSMUSG0000000081261	Gm15370	-1.03	0.00	0.00	0.40	0.19	1.00	-0.26	0.31	1.00	predicted gene 15370 [Source:MGI Symbol:Acc.MGI:3707467]
ENSMUSG0000000084195	Gm15372	-1.03	0.00	0.00	0.39	0.19	1.00	-0.26	0.31	1.00	predicted gene 15372 [Source:MGI Symbol:Acc.MGI:3707469]
ENSMUSG000000003636	Cxom1p	-0.41	0.00	0.00	0.24	0.00	0.07	-0.13	1.26	1.00	cytochrome c oxidase, subunit IVb polypeptide 1 [Source:MGI Symbol:Acc.MGI:107460]
ENSMUSG000000003938	Gm3108	-1.60	0.00	0.00	0.32	0.07	0.65	-0.28	0.05	1.00	predicted pseudogene 3938 [Source:MGI Symbol:Acc.MGI:3642431]
ENSMUSG0000000071454	Dnb	-1.00	0.00	0.00	0.46	0.11	0.87	-0.02	1.00	1.00	dystrobrevin, beta [Source:MGI Symbol:Acc.MGI:1203728]
ENSMUSG000000044792	Iscat1	-0.47	0.00	0.00	0.24	0.05	0.48	0.03	0.84	1.00	iron-sulfur cluster assembly 1 homolog (S. cerevisiae) [Source:MGI Symbol:Acc.MGI:1916296]
ENSMUSG0000000067369	Tmrb2b	-0.89	0.00	0.00	0.55	0.03	0.32	0.06	0.83	1.00	TRM2B tRNA methyltransferase 2 homolog B (S. cerevisiae) [Source:MGI Symbol:Acc.MGI:2442530]
ENSMUSG000000021079	Timm9	-0.94	0.00	0.00	0.37	0.20	1.00	0.09	0.71	1.00	translocase of inner mitochondrial membrane 9 [Source:MGI Symbol:Acc.MGI:1353436]
ENSMUSG000000017288	Vps53	-0.73	0.00	0.00	0.53	0.01	0.11	0.00	1.00	1.00	vacuolar protein sorting 53 (yeast) [Source:MGI Symbol:Acc.MGI:1915549]
ENSMUSG0000000093535	490553122Rk	-3.21	0.00	0.00	1.12	0.69	1.00	-0.10	1.00	1.00	RIKEN cDNA 490553122 gene [Source:MGI Symbol:Acc.MGI:3612498]
ENSMUSG000000002328	Cxcl12	-3.18	0.00	0.00	0.69	0.69	1.00	-0.22	0.74	1.00	chemokine receptor 12 [Source:MGI Symbol:Acc.MGI:1915922]
ENSMUSG0000000023022	Lama1	-0.60	0.00	0.00	0.26	0.10	0.84	-0.14	0.38	1.00	LIM domain and actin binding 1 [Source:MGI Symbol:Acc.MGI:1920992]
ENSMUSG0000000038515	Grip1	-0.70	0.00	0.00	0.37	0.05	0.54	0.08	0.66	1.00	GH regulated TBC protein 1 [Source:MGI Symbol:Acc.MGI:1914040]
ENSMUSG000000027108	Ola1	-0.91	0.00	0.00	0.50	0.06	0.56	0.14	0.56	1.00	Olig1-like ATPase 1 [Source:MGI Symbol:Acc.MGI:1914309]
ENSMUSG0000000033897	Slc39a8	-0.62	0.00	0.00	0.41	0.01	0.15	-0.14	0.41	1.00	solute carrier family 39 (metal ion transporter), member 8 [Source:MGI Symbol:Acc.MGI:1914797]
ENSMUSG0000000033499	Larp4b	-0.61	0.00	0.00	0.17	0.30	1.00	0.32	0.04	1.00	La ribonucleoprotein domain family, member 4B [Source:MGI Symbol:Acc.MGI:106330]
ENSMUSG0000000062827	Gm13502	-1.45	0.00	0.00	0.17	0.87	1.00	0.12	0.75	1.00	predicted gene 13502 [Source:MGI Symbol:Acc.MGI:3645894]
ENSMUSG000000001925	Slc40a2	-0.41	0.00	0.00	0.24	0.00	0.07	-0.13	1.26	1.00	cytochrome c oxidase, subunit IVb polypeptide 1 [Source:MGI Symbol:Acc.MGI:107460]
ENSMUSG0000000041028	Ghltm	-1.25	0.00	0.00	0.10	0.06	0.61	0.01	0.86	1.00	growth hormone inducible transmembrane protein [Source:MGI Symbol:Acc.MGI:1913342]
ENSMUSG000000024059	Ctip4	-1.56	0.00	0.00	1.0						

ENSMUSG00000088456	75K	-2.67	0.00	0.00	1.33	0.15	1.00	-0.11	0.87	1.00	75K RNA [Source:RFAM:Acc:RF00100]
ENSMUSG00000028672	Hmgcl	-0.45	0.00	0.00	0.23	0.04	0.48	-0.09	0.48	1.00	3-hydroxy-3-methylglutaryl-Coenzyme A lyase [Source:MGI Symbol:Acc:MGI:96158]
ENSMUSG00000037818	3110057012Rk	-1.08	0.00	0.00	0.59	0.07	0.66	0.10	0.73	1.00	RIKEN cDNA 3110057012 gene [Source:MGI Symbol:Acc:MGI:1918624]
ENSMUSG00000039878	Sc3pa5	-0.06	0.00	0.00	0.53	0.06	0.60	0.11	0.69	1.00	solute carrier family 39 (metal ion transporter), member 5 [Source:MGI Symbol:Acc:MGI:1919336]
ENSMUSG00000068115	Nirl	-0.78	0.00	0.00	0.20	0.39	1.00	-0.11	0.63	1.00	nirin-like [Source:MGI Symbol:Acc:MGI:1925427]
ENSMUSG00000021748	Pdihb	-0.40	0.00	0.00	0.21	0.05	0.51	0.08	0.48	1.00	pyruvate dehydrogenase (liponamide) beta [Source:MGI Symbol:Acc:MGI:1915513]
ENSMUSG00000028036	Pqgr	-1.34	0.00	0.00	0.61	0.13	0.99	0.00	1.00	1.00	prostaglandin F receptor [Source:MGI Symbol:Acc:MGI:97796]
ENSMUSG00000061718	Pp1r1b	-0.63	0.00	0.00	0.21	0.25	1.00	-0.25	0.23	1.00	protein phosphatase 1, regulatory (inhibitor) subunit 1B [Source:MGI Symbol:Acc:MGI:94860]
ENSMUSG00000013622	Atraid	-0.50	0.00	0.00	0.31	0.02	0.26	-0.04	0.79	1.00	all-trans retinoic acid induced differentiation factor [Source:MGI Symbol:Acc:MGI:1918918]
ENSMUSG00000073067	9130019P16Rk	-2.00	0.00	0.00	0.61	0.48	1.00	0.06	1.00	1.00	RIKEN cDNA 9130019P16 gene [Source:MGI Symbol:Acc:MGI:1918824]
ENSMUSG00000003978	Sc3pa5	-0.06	0.00	0.00	0.53	0.06	0.60	0.11	0.69	1.00	supporter of lin-12-like (C. elegans) [Source:MGI Symbol:Acc:MGI:1329016]
ENSMUSG00000042032	Mat2b	-0.51	0.00	0.00	0.22	0.11	0.89	0.01	0.97	1.00	methionine adenosyltransferase II, beta [Source:MGI Symbol:Acc:MGI:1913667]
ENSMUSG00000003465	Cncd3	-0.56	0.00	0.00	0.25	0.12	0.89	-0.04	0.82	1.00	cyclin D3 [Source:MGI Symbol:Acc:MGI:88315]
ENSMUSG00000008097	Gm13772	-0.53	0.00	0.00	0.26	0.08	0.71	0.36	0.01	1.00	predicted gene 13772 [Source:MGI Symbol:Acc:MGI:3650155]
ENSMUSG00000003216	Stard8	-0.58	0.00	0.00	0.27	0.10	0.82	-0.13	0.42	1.00	START domain containing 8 [Source:MGI Symbol:Acc:MGI:2448556]
ENSMUSG00000041765	Ubac3	-0.81	0.00	0.00	0.57	0.02	0.22	0.04	0.89	1.00	ubiquitin associated domain containing 2 [Source:MGI Symbol:Acc:MGI:1916139]
ENSMUSG00000036172	Cd200r3	-0.86	0.00	0.00	0.30	0.29	1.00	-0.02	0.94	1.00	CD200 receptor 3 [Source:MGI Symbol:Acc:MGI:1921853]
ENSMUSG00000003978	Sc3pa5	-0.06	0.00	0.00	0.53	0.06	0.60	0.11	0.69	1.00	Werner syndrome homolog (human) [Source:MGI Symbol:Acc:MGI:109635]
ENSMUSG00000057522	Scgp	-0.51	0.00	0.00	0.27	0.05	0.55	0.10	0.53	1.00	speckle-type POZ protein [Source:MGI Symbol:Acc:MGI:1343085]
ENSMUSG00000001598	Caena1d	-0.60	0.00	0.00	0.46	0.00	0.07	0.06	0.77	1.00	calcium channel, voltage-dependent, L type, alpha 1D subunit [Source:MGI Symbol:Acc:MGI:88293]
ENSMUSG000000081600	Gm12286	-0.31	0.00	0.00	0.16	0.04	0.42	-0.01	0.94	1.00	predicted gene 12286 [Source:MGI Symbol:Acc:MGI:3649467]
ENSMUSG000000004319	Cln3c	-0.40	0.00	0.00	0.26	0.01	0.19	0.23	0.05	1.00	chloride channel 3 [Source:MGI Symbol:Acc:MGI:103555]
ENSMUSG00000004098	Npnt	-0.45	0.00	0.00	-0.15	0.23	1.00	-0.40	0.01	1.00	nephronectin [Source:MGI Symbol:Acc:MGI:2148811]
ENSMUSG000000024610	Cd74	-0.54	0.00	0.00	-0.16	0.32	1.00	-0.03	0.91	1.00	CD74 antigen (invariant polyptide of major histocompatibility complex, class II antigen-associated) [Source:MGI Symbol:Acc:MGI:96534]
ENSMUSG00000002920	Inr1	-0.72	0.00	0.00	0.22	0.59	1.00	0.02	0.95	1.00	Inouos related homeobox 1 (Drosophila) [Source:MGI Symbol:Acc:MGI:1197515]
ENSMUSG00000045294	Inr1	-0.68	0.00	0.00	-0.08	0.14	1.00	0.11	0.72	1.00	family with sequence similarity 13 [Source:MGI Symbol:Acc:MGI:1916289]
ENSMUSG000000026199	Ank121	-0.54	0.00	0.00	0.21	0.18	1.00	-0.13	0.43	1.00	ankyrin repeat and zinc finger domain containing 1 [Source:MGI Symbol:Acc:MGI:1088746]
ENSMUSG00000098192	-	-0.31	0.00	0.00	0.15	0.05	0.55	0.01	0.91	1.00	0
ENSMUSG000000057147	Atpb4	-1.27	0.00	0.00	0.79	0.04	0.46	0.01	1.00	1.00	ATP binding domain 4 [Source:MGI Symbol:Acc:MGI:1913882]
ENSMUSG000000028343	Erp44	-0.60	0.00	0.00	0.37	0.03	0.34	-0.21	0.23	1.00	endoplasmic reticulum protein 44 [Source:MGI Symbol:Acc:MGI:1923549]
ENSMUSG00000043988	Mgat2	-0.49	0.00	0.00	0.18	0.20	1.00	-0.06	0.69	1.00	mannoside acetylglucosaminyltransferase 2 [Source:MGI Symbol:Acc:MGI:2384966]
ENSMUSG000000029190	Pt411	-0.72	0.00	0.00	0.22	0.04	0.45	-0.06	0.05	1.00	predicted gene 29190 [Source:MGI Symbol:Acc:MGI:3651240]
ENSMUSG0000000287478	493050C21Rik	-0.43	0.00	0.00	0.24	0.04	0.45	-0.06	0.64	1.00	RIKEN cDNA 493050C21 gene [Source:MGI Symbol:Acc:MGI:1922310]
ENSMUSG000000040188	Scamp2	-0.46	0.00	0.00	0.26	0.04	0.42	-0.07	0.64	1.00	secretory carrier membrane protein 2 [Source:MGI Symbol:Acc:MGI:1346518]
ENSMUSG00000077497	SNORA26	-1.64	0.00	0.00	0.88	0.11	0.87	-0.14	0.79	1.00	Small nuclear RNA SNORA26 [Source:RFAM:Acc:RF00568]
ENSMUSG00000002656	Fcgr2b	-0.67	0.00	0.00	0.36	0.07	0.63	-0.21	0.29	1.00	Fc receptor, IgG, low affinity IIB [Source:MGI Symbol:Acc:MGI:95499]
ENSMUSG000000061887	Ssbp3	-0.77	0.00	0.00	0.50	0.03	0.34	-0.11	0.62	1.00	single-stranded DNA binding protein 3 [Source:MGI Symbol:Acc:MGI:1919725]
ENSMUSG000000041594	Tmtc4	-1.06	0.00	0.00	0.51	0.13	0.98	0.08	0.86	1.00	transmembrane and tetrahydrocannabinol repeat containing 4 [Source:MGI Symbol:Acc:MGI:1921050]
ENSMUSG000000029190	Inr1	-0.72	0.00	0.00	0.22	0.59	1.00	0.02	0.95	1.00	Inouos related homeobox 1 (Drosophila) [Source:MGI Symbol:Acc:MGI:1197515]
ENSMUSG00000038422	Hdh3c	-0.98	0.00	0.00	0.46	0.16	1.00	0.04	0.93	1.00	haloacid dehalogenase-like hydrolase domain containing 3 [Source:MGI Symbol:Acc:MGI:1919998]
ENSMUSG000000042444	Fam33b	-0.48	0.00	0.00	0.30	0.35	1.00	-0.15	0.61	1.00	solute carrier family 2 (facilitated glucose transporter), member 4 [Source:MGI Symbol:Acc:MGI:95758]
ENSMUSG000000090256	Alms1-ps1	-1.54	0.00	0.00	0.98	0.04	0.47	0.33	0.37	1.00	Alstrom syndrome 1, pseudogene 1 [Source:MGI Symbol:Acc:MGI:3646394]
ENSMUSG000000015536	Mocs2	-0.52	0.00	0.00	0.16	0.30	1.00	0.10	0.51	1.00	molybdenum cofactor synthesis 2 [Source:MGI Symbol:Acc:MGI:1336894]
ENSMUSG000000028532	Cachd1	-1.01	0.00	0.00	0.69	0.02	0.24	-0.06	0.93	1.00	cache domain containing 1 [Source:MGI Symbol:Acc:MGI:2444177]
ENSMUSG000000055670	Zzf1	-0.62	0.00	0.00	0.42	0.02	0.22	0.00	1.00	1.00	zinc finger, ZZ-type with EF hand domain 1 [Source:MGI Symbol:Acc:MGI:2444286]
ENSMUSG000000029190	Inr1	-0.72	0.00	0.00	0.22	0.59	1.00	0.02	0.95	1.00	Inouos related homeobox 1 (Drosophila) [Source:MGI Symbol:Acc:MGI:1197515]
ENSMUSG00000038489	Fat10b	-0.44	0.00	0.00	0.28	0.14	1.00	-0.11	0.42	1.00	family with sequence similarity 68, member C [Source:MGI Symbol:Acc:MGI:1917428]
ENSMUSG000000042444	Fam33b	-0.48	0.00	0.00	0.23	0.15	1.00	0.04	0.80	1.00	family with sequence similarity 63, member B [Source:MGI Symbol:Acc:MGI:2443086]
ENSMUSG000000035933	Cog5	-1.20	0.00	0.00	0.52	0.21	1.00	0.01	1.00	1.00	component of oligomeric golgi complex 5 [Source:MGI Symbol:Acc:MGI:2145130]
ENSMUSG000000031835	Mbps1	-0.53	0.00	0.00	0.24	0.12	0.90	0.01	0.96	1.00	membrane-bound transcription factor peptidase, site 1 [Source:MGI Symbol:Acc:MGI:1927235]
ENSMUSG00000010721	Lmbr1	-1.46	0.00	0.00	0.64	0.21	1.00	-0.15	0.73	1.00	limb region 1 [Source:MGI Symbol:Acc:MGI:1861746]
ENSMUSG00000041685	Fcho2	-0.44	0.00	0.00	0.29	0.02	0.24	0.13	0.31	1.00	FCH domain only 2 [Source:MGI Symbol:Acc:MGI:3505790]
ENSMUSG000000062777	Gm15376	-0.95	0.00	0.00	0.36	0.24	1.00	-0.26	0.31	1.00	predicted gene 15376 [Source:MGI Symbol:Acc:MGI:3707460]
ENSMUSG00000004989	Gpr153	-0.85	0.00	0.00	0.38	0.28	1.00	-0.07	0.62	1.00	predicted gene 15369 [Source:MGI Symbol:Acc:MGI:3707462]
ENSMUSG000000027033	Ptprr1	-0.96	0.00	0.00	0.36	0.03	0.32	-0.03	0.89	1.00	protein tyrosine phosphatase, receptor type, A [Source:MGI Symbol:Acc:MGI:97808]
ENSMUSG00000020003	Pex7	-0.62	0.00	0.00	0.38	0.04	0.41	0.00	1.00	1.00	peroxisomal biogenesis factor 7 [Source:MGI Symbol:Acc:MGI:1321392]
ENSMUSG000000038481	Cdk19	-0.97	0.00	0.00	0.64	0.03	0.37	-0.07	0.86	1.00	cyclin-dependent kinase 19 [Source:MGI Symbol:Acc:MGI:1925548]
ENSMUSG00000016028	Celsr1	-0.89	0.00	0.00	0.75	0.00	0.07	0.18	0.49	1.00	cadherin, EGF LAG seven-pass G-type receptor 1 (flamingo homolog, Drosophila) [Source:MGI Symbol:Acc:MGI:1100883]
ENSMUSG000000032023	Pigb	-0.80	0.00	0.00	0.31	0.08	0.72	-0.02	0.96	1.00	phosphatidylinositol glycan anchor biosynthesis, class B [Source:MGI Symbol:Acc:MGI:1891825]
ENSMUSG00000022647	Ccna1	-0.79	0.00	0.00	0.62	0.01	0.04	0.17	0.57	1.00	microtubule receptor coactivator 1 [Source:MGI Symbol:Acc:MGI:1276523]
ENSMUSG000000038481	Cdk19	-0.97	0.00	0.00	0.64	0.03	0.37	-0.07	0.86	1.00	cyclin-dependent kinase 19 [Source:MGI Symbol:Acc:MGI:1925548]
ENSMUSG000000038717	Atp5f1	-0.35	0.00	0.00	0.25	0.00	0.05	0.14	0.18	1.00	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit g [Source:MGI Symbol:Acc:MGI:1351597]
ENSMUSG000000095311	U6	-2.34	0.00	0.00	0.73	0.55	1.00	-0.08	1.00	1.00	U6 spliceosomal RNA [Source:RFAM:Acc:RF00026]
ENSMUSG000000061825	Ces2c	-0.39	0.00	0.00	0.05	0.65	1.00	0.10	0.38	1.00	carboxylesterase 2C [Source:MGI Symbol:Acc:MGI:2385905]
ENSMUSG000000022742	Cpxc	-0.45	0.00	0.00	0.09	0.51	1.00	0.02	0.92	1.00	coproporphyrinogen oxidase [Source:MGI Symbol:Acc:MGI:104841]
ENSMUSG000000093624	Gm20704	-1.85	0.00	0.01	1.01	0.15	1.00	0.10	0.89	1.00	predicted gene 20704 [Source:MGI Symbol:Acc:MGI:5313151]
ENSMUSG000000093687	Gm20637	-1.84	0.00	0.00	1.00	0.15	1.00	0.09	1.00	1.00	predicted gene 20637 [Source:MGI Symbol:Acc:MGI:5313084]
ENSMUSG000000039878	Sc3pa5	-0.06	0.00	0.00	0.53	0.06	0.60	0.11	0.69	1.00	Werner syndrome homolog (human) [Source:MGI Symbol:Acc:MGI:109635]
ENSMUSG000000057265	Ccdc176	-0.59	0.00	0.00	0.31	0.02	0.31	0.01	0.96	1.00	colicoid-coil domain containing 176 [Source:MGI Symbol:Acc:MGI:1920123]
ENSMUSG00000043531	Sorsc1	-3.61	0.00	0.01	0.59	1.00	0.00	0.81	0.10	1.00	VPS10 domain receptor protein SORCS 1 [Source:MGI Symbol:Acc:MGI:1929666]
ENSMUSG000000051984	Sec31b	-2.37	0.00	0.01	0.44	0.75	1.00	-0.18	0.74	1.00	Sec31 homolog B (S. cerevisiae) [Source:MGI Symbol:Acc:MGI:2685187]
ENSMUSG00000029554	Mad11	-2.21	0.00	0.01	-0.04	1.00	1.00	-0.03	1.00	1.00	MAD1 mitotic arrest deficient 1-like 1 [Source:MGI Symbol:Acc:MGI:1341857]
ENSMUSG000000077993	AC113244.1	-0.08	0.00	0.01	0.88	0.24	1.00	0.11	0.89	1.00	0
ENSMUSG00000002674	Hnh2	-1.15	0.00	0.01	0.27	0.60	1.00	-0.05	0.92	1.00	proteasidom homolog (Drosophila) [Source:MGI Symbol:Acc:MGI:1916925]
ENSMUSG000000029190	Inr1	-0.72	0.00	0.00	0.22	0.59	1.00	0.02	0.95	1.00	Inouos related homeobox 1 (Drosophila) [Source:MGI Symbol:Acc:MGI:1197515]
ENSMUSG000000041779	Tram2	-1.43	0.00	0.01	0.55	0.26	1.00	0.14	0.73	1.00	translocating chain-associated membrane protein 2 [Source:MGI Symbol:Acc:MGI:1924817]
ENSMUSG000000096810	RP23-30B3.1	-0.32	0.00	0.01	0.18	0.03	0.35	-0.01	0.91	1.00	0
ENSMUSG000000091803	Cox16	-0.82	0.00	0.01	0.43	0.09	0.78	0.02	1.00	1.00	COX16 cytochrome c oxidase assembly homolog (S. cerevisiae) [Source:MGI Symbol:Acc:MGI:1913522]
ENSMUSG000000087904	75K	-1.34	0.00	0.01	0.75	0.11	0.87	0.66	0.03	1.00	75K RNA [Source:RFAM:Acc:RF00100]
ENSMUSG000000004341	Gp96	-0.84	0.00	0.01	0.17	0.53	1.00	-0.21	0.39	1.00	glutathione peroxidase 6 [Source:MGI Symbol:Acc:MGI:1922762]
ENSMUSG000000055426	Gm98977	-1.06	0.00	0.01	0.91	0.00	0.06	-0.25	0.33	1.00	predicted gene 9877 [Source:MGI Symbol:Acc:MGI:3705538]
ENSMUSG000000003959	Acd1-T1	-1.50	0.00	0.01	-0.21	0.02	0.22	-0.13	0.81	1.00	mitochondrial enzyme [Source:MGI Symbol:Acc:MGI:102470]
ENSMUSG000000031990	Jam3	-0.99	0.00	0.01	0.37	0.28	1.00	-0.30	0.31	1.00	junction adhesion molecule 3 [Source:MGI Symbol:Acc:MGI:1933825]
ENSMUSG00000046808	Atp10d	-0.78	0.00	0.01	0.56	0.02	0.23	0.20	0.31	1.00	ATPase, class V, type 10D [Source:MGI Symbol:Acc:MGI:2450125]
ENSMUSG000000026986	Hmmt	-1.09	0.00	0.01	0.55	0.11	0.84				

ENSMUSG000000041974	2310008H04Rk	-2.16	0.00	0.01	0.32	1.00	1.00	-0.08	1.00	1.00	RIKEN cDNA 2310008H04 gene [Source:MGI Symbol:Acc:MGI:1924834]
ENSMUSG000000029154	Cwh43	-2.09	0.00	0.01	0.70	0.58	1.00	0.07	1.00	1.00	cell wall biogenesis 43 C-terminal homolog (S. cerevisiae) [Source:MGI Symbol:Acc:MGI:2444131]
ENSMUSG000000038070	Cnln	-2.06	0.00	0.01	0.34	1.00	1.00	0.09	0.88	1.00	centriole, centrosomal protein [Source:MGI Symbol:Acc:MGI:2443104]
ENSMUSG000000025728	Scp2a1	-1.23	0.00	0.01	0.59	0.22	1.00	-0.21	0.58	1.00	solute carrier family 28 (sodium-coupled nucleoside transporter), member 1 [Source:MGI Symbol:Acc:MGI:3605073]
ENSMUSG000000035048	Anapc13	-0.65	0.00	0.01	0.40	0.05	0.51	0.08	0.71	1.00	anaphase promoting complex subunit 13 [Source:MGI Symbol:Acc:MGI:1916260]
ENSMUSG000000005951	Shk1	-0.97	0.00	0.01	0.52	1.00	0.80	-0.04	0.93	1.00	glycerol-3-phosphate 3-kinase [Source:MGI Symbol:Acc:MGI:1921867]
ENSMUSG000000028496	Mll3	-1.68	0.00	0.01	0.34	0.68	1.00	-0.13	0.79	1.00	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3 [Source:MGI Symbol:Acc:MGI:1917372]
ENSMUSG000000020847	Rph3al	-1.67	0.00	0.01	0.81	0.14	1.00	-0.07	1.00	1.00	ribophyllin 3A-like (without C2 domains) [Source:MGI Symbol:Acc:MGI:1923492]
ENSMUSG000000057766	Ankrd29	-1.55	0.00	0.01	0.62	0.34	1.00	0.07	1.00	1.00	ankyrin repeat domain 29 [Source:MGI Symbol:Acc:MGI:2687055]
ENSMUSG000000031485	Prosc	-0.85	0.00	0.01	0.27	0.00	0.07	-0.14	0.25	1.00	proline synthetase co-transcribed [Source:MGI Symbol:Acc:MGI:1891207]
ENSMUSG000000029728	Sclp2	-0.84	0.00	0.01	0.27	0.04	1.00	0.21	0.87	1.00	solid X receptor, alpha [Source:MGI Symbol:Acc:MGI:1928147]
ENSMUSG000000034424	Gsch	-0.45	0.00	0.01	0.21	0.11	0.86	0.01	0.94	1.00	glycine cleavage system protein H (aminomethyl carrier) [Source:MGI Symbol:Acc:MGI:1915383]
ENSMUSG000000024150	Mcf2	-0.40	0.00	0.01	-0.07	0.56	1.00	0.08	0.53	1.00	multiple coagulation factor deficiency 2 [Source:MGI Symbol:Acc:MGI:2183439]
ENSMUSG000000020416	Ndufb2	-0.53	0.00	0.01	0.31	0.05	0.54	-0.04	0.82	1.00	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 2 [Source:MGI Symbol:Acc:MGI:1915448]
ENSMUSG000000058022	Adtrp	-0.56	0.00	0.01	0.29	1.00	0.84	-0.03	0.92	1.00	androgen dependent TFPI regulating protein [Source:MGI Symbol:Acc:MGI:1924596]
ENSMUSG000000050022	Anz1	-0.99	0.00	0.01	0.47	0.16	1.00	-0.08	0.86	1.00	archaelysin family metalloprotease 1 [Source:MGI Symbol:Acc:MGI:2442258]
ENSMUSG000000030513	Pcsk6	-0.76	0.00	0.01	0.28	0.25	1.00	-0.17	0.47	1.00	proprotein convertase subtilisin/kexin type 6 [Source:MGI Symbol:Acc:MGI:102897]
ENSMUSG000000025728	Scp2a1	-0.38	0.00	0.01	0.18	0.12	0.89	0.11	0.38	1.00	RIKEN cDNA 4933493F05 gene [Source:MGI Symbol:Acc:MGI:1914000]
ENSMUSG000000020546	Sbbp4	-0.83	0.00	0.01	0.50	0.05	0.55	0.16	0.50	1.00	synactin binding protein 4 [Source:MGI Symbol:Acc:MGI:1342296]
ENSMUSG000000026594	Ralgs2	-0.87	0.00	0.01	0.45	0.11	0.87	0.17	0.53	1.00	Ral GEF with PH domain and SH3 binding motif 2 [Source:MGI Symbol:Acc:MGI:1922505]
ENSMUSG000000062949	Atp11c	-0.87	0.00	0.01	0.57	0.04	0.47	0.06	0.87	1.00	ATPase, class VI, type 11C [Source:MGI Symbol:Acc:MGI:1859661]
ENSMUSG000000067144	Sck22a7	-0.74	0.00	0.01	-0.02	0.95	1.00	1.01	0.00	0.09	solute carrier family 22 (organic anion transporter), member 7 [Source:MGI Symbol:Acc:MGI:1859569]
ENSMUSG000000027428	Rbbp9	-0.63	0.00	0.01	0.34	0.10	0.80	0.02	0.95	1.00	retinoblastoma binding protein 9 [Source:MGI Symbol:Acc:MGI:1347074]
ENSMUSG000000027603	Gat7	-1.39	0.00	0.01	0.67	0.21	1.00	0.02	1.00	1.00	gamma-glutamyltransferase 7 [Source:MGI Symbol:Acc:MGI:1913385]
ENSMUSG000000029154	Cwh43	-0.60	0.00	0.01	0.36	0.04	1.00	0.01	0.60	0.7892	predicted gene 7892 [Source:MGI Symbol:Acc:MGI:3646299]
ENSMUSG000000031978	Tbc1d19	-0.72	0.00	0.01	0.44	0.05	0.55	-0.08	0.73	1.00	TBC1 domain family, member 19 [Source:MGI Symbol:Acc:MGI:1914499]
ENSMUSG000000024245	Tmem178	-0.70	0.00	0.01	0.21	0.30	1.00	0.12	0.55	1.00	transmembrane protein 178 [Source:MGI Symbol:Acc:MGI:1915277]
ENSMUSG000000035024	Ncapd3	-0.96	0.00	0.01	0.50	0.12	0.92	-0.10	0.79	1.00	non-SMC condensin II complex, subunit D3 [Source:MGI Symbol:Acc:MGI:2142989]
ENSMUSG000000032867	Fbw8	-0.48	0.00	0.01	0.26	0.07	0.66	0.04	0.83	1.00	F-box and WD-40 domain protein 8 [Source:MGI Symbol:Acc:MGI:1923041]
ENSMUSG000000025579	Gaa	-0.54	0.00	0.01	0.26	0.13	0.95	-0.25	0.15	1.00	glucosidase, alpha, alpha [Source:MGI Symbol:Acc:MGI:95609]
ENSMUSG000000075415	Frbp1	-0.64	0.00	0.01	0.32	0.12	0.91	-0.02	1.00	1.00	formin binding protein 1 [Source:MGI Symbol:Acc:MGI:109606]
ENSMUSG000000023230	Wdr2	-0.60	0.00	0.01	0.29	0.20	1.00	0.35	0.95	1.00	pyruvate dehydrogenase kinase, isoenzyme 3 [Source:MGI Symbol:Acc:MGI:2384308]
ENSMUSG000000036230	Gidc1	-1.16	0.00	0.01	0.27	0.50	1.00	-0.10	0.44	1.00	gamma-glutamyltransferase-like domain containing 1 [Source:MGI Symbol:Acc:MGI:2444269]
ENSMUSG000000025726	D3Erd751e	-1.13	0.00	0.01	0.57	0.16	1.00	-0.02	1.00	1.00	DNA segment, Chr 3, ERATO D01 751, expressed [Source:MGI Symbol:Acc:MGI:1289213]
ENSMUSG000000031618	Nr3c2	-1.27	0.00	0.01	0.42	0.38	1.00	0.01	1.00	1.00	nuclear receptor subfamily 3, group C, member 2 [Source:MGI Symbol:Acc:MGI:99459]
ENSMUSG000000029438	Bcl7a	-0.43	0.00	0.01	0.28	0.02	0.31	-0.13	0.36	1.00	B cell CLL/lymphoma 7A [Source:MGI Symbol:Acc:MGI:1924295]
ENSMUSG000000042797	Aqp11	-0.76	0.00	0.01	0.43	0.08	0.73	0.02	1.00	1.00	aquaporin 11 [Source:MGI Symbol:Acc:MGI:1913583]
ENSMUSG000000029829	Tmem213	-0.67	0.00	0.01	0.21	0.37	1.00	0.06	0.79	1.00	transmembrane protein 213 [Source:MGI Symbol:Acc:MGI:1924772]
ENSMUSG000000029154	Cwh43	-0.66	0.00	0.01	0.36	0.04	1.00	0.01	0.60	0.7892	predicted gene 7892 [Source:MGI Symbol:Acc:MGI:3646299]
ENSMUSG000000026594	Ralgs2	-0.36	0.00	0.01	-0.44	0.00	0.01	-0.71	0.00	0.00	apoptosis regulator E [Source:MGI Symbol:Acc:MGI:88957]
ENSMUSG000000096764	SLC12A6	-0.73	0.00	0.01	0.31	0.20	1.00	0.41	0.03	1.00	Slc12a6 protein, Uncharacterized protein [Source:UniProtKB/TrEMBL:Acc:Q6PEP5]
ENSMUSG000000021495	Fam193b	-0.47	0.00	0.01	0.17	0.24	1.00	-0.14	0.36	1.00	family with sequence similarity 193, member B [Source:MGI Symbol:Acc:MGI:2385851]
ENSMUSG000000032228	Tcf12	-0.71	0.00	0.01	0.39	0.09	0.77	0.08	0.73	1.00	transcription factor 12 [Source:MGI Symbol:Acc:MGI:101877]
ENSMUSG000000027828	Srs3	-0.33	0.00	0.01	-0.01	0.98	1.00	0.08	0.46	1.00	signal sequence receptor, gamma [Source:MGI Symbol:Acc:MGI:1914687]
ENSMUSG000000091228	Gm20390	-0.31	0.00	0.01	0.13	0.04	0.46	0.02	0.85	1.00	predicted gene 20390 [Source:MGI Symbol:Acc:MGI:5141855]
ENSMUSG000000023068	Pink2	-0.69	0.00	0.01	0.09	0.15	1.00	-0.16	1.00	1.00	phosphatidylinositol 3-kinase protein domain containing 2 [Source:MGI Symbol:Acc:MGI:1914557]
ENSMUSG000000047912	Wdr2	-0.60	0.00	0.01	0.62	0.02	0.22	0.04	0.94	1.00	WD repeat domain 72 [Source:MGI Symbol:Acc:MGI:2385997]
ENSMUSG000000021592	Arsk	-0.82	0.00	0.01	0.32	0.24	1.00	-0.01	1.00	1.00	arylsulfatase K [Source:MGI Symbol:Acc:MGI:1924291]
ENSMUSG000000061061	Polo	-1.81	0.00	0.01	0.47	0.50	1.00	-0.08	1.00	1.00	piccolo (presynaptic cytomatrix protein) [Source:MGI Symbol:Acc:MGI:1349390]
ENSMUSG000000040820	Hlcs	-1.73	0.00	0.01	0.39	0.66	1.00	-0.02	1.00	1.00	holocarboxylase synthetase (biotin-[propionyl-Coenzyme A-carboxylase (ATP-hydrolysing)] ligase) [Source:MGI Symbol:Acc:MGI:894646]
ENSMUSG000000037852	Cpe	-0.72	0.00	0.01	-0.35	0.18	1.00	-0.20	0.38	1.00	carboxypeptidase E [Source:MGI Symbol:Acc:MGI:101932]
ENSMUSG000000032440	Tgfbir2	-0.47	0.00	0.01	0.11	0.47	1.00	-0.05	0.77	1.00	transforming growth factor, beta receptor II [Source:MGI Symbol:Acc:MGI:98729]
ENSMUSG000000012609	Tgfbir1	-1.55	0.00	0.01	0.55	0.46	1.00	-0.07	1.00	1.00	tubulin tyrosine ligase-like family, member 5 [Source:MGI Symbol:Acc:MGI:2443657]
ENSMUSG000000029154	Cwh43	-0.66	0.00	0.01	0.36	0.04	1.00	0.01	0.60	0.7892	predicted gene 7892 [Source:MGI Symbol:Acc:MGI:3646299]
ENSMUSG000000024251	Tc2b	-1.30	0.00	0.01	0.91	0.03	0.38	0.01	1.00	1.00	retroviral integrase domain containing 28 [Source:MGI Symbol:Acc:MGI:2142873]
ENSMUSG000000024251	Thada	-1.30	0.00	0.01	0.91	0.03	0.38	0.01	1.00	1.00	thyroid associated associated [Source:MGI Symbol:Acc:MGI:3039623]
ENSMUSG000000082100	Glns-ps1	-1.28	0.00	0.01	0.46	0.44	1.00	0.01	1.00	1.00	glutamine synthetase pseudogene 1 [Source:MGI Symbol:Acc:MGI:95740]
ENSMUSG000000001120	Pcbp3	-1.14	0.00	0.01	0.70	0.06	0.61	0.15	0.62	1.00	poly(C) binding protein 3 [Source:MGI Symbol:Acc:MGI:1890470]
ENSMUSG000000030522	Mtmr10	-0.65	0.00	0.01	0.39	0.06	0.57	0.03	0.95	1.00	myotubularin related protein 10 [Source:MGI Symbol:Acc:MGI:2142292]
ENSMUSG000000037049	Smpd1	-0.46	0.00	0.01	0.20	0.15	1.00	-0.01	1.00	1.00	sphingomyelin phosphodiesterase 1, acid lysosomal [Source:MGI Symbol:Acc:MGI:98325]
ENSMUSG000000035991	Pih1h1	-0.47	0.00	0.01	0.04	0.01	1.00	0.16	0.28	1.00	N-acetylphosphatidylethanolamine hydrolase 1 [Source:MGI Symbol:Acc:MGI:1277124]
ENSMUSG000000078902	Dl5c	-0.54	0.00	0.01	0.29	0.25	1.00	0.16	0.80	1.00	nitric oxide synthase (beta-1) domain containing protein 1 [Source:MGI Symbol:Acc:MGI:1330230]
ENSMUSG000000022332	Khdhb3	-1.16	0.00	0.01	0.26	0.68	1.00	0.14	0.76	1.00	KH domain containing, RNA binding, signal transduction associated 3 [Source:MGI Symbol:Acc:MGI:1313312]
ENSMUSG000000078493	A930039A15Rk	-1.25	0.00	0.01	0.38	0.45	1.00	-0.06	0.91	1.00	RIKEN cDNA A930039A15 gene [Source:MGI Symbol:Acc:MGI:3641728]
ENSMUSG000000033096	Apmap	-0.50	0.00	0.01	0.22	0.16	1.00	-0.11	0.50	1.00	adipocyte plasma membrane associated protein [Source:MGI Symbol:Acc:MGI:1919131]
ENSMUSG000000045968	5830403L16Rk	-1.20	0.00	0.01	0.42	0.32	1.00	0.20	0.60	1.00	RIKEN cDNA 5830403L16 gene [Source:MGI Symbol:Acc:MGI:1923273]
ENSMUSG000000063063	Ctnna2	-2.71	0.00	0.01	1.29	0.29	1.00	0.28	0.73	1.00	catenin (cadherin associated protein), alpha 2 [Source:MGI Symbol:Acc:MGI:88275]
ENSMUSG000000034158	Lncr5b	-0.36	0.00	0.01	0.23	0.03	0.33	0.03	0.01	1.00	leucine rich repeat containing 58 [Source:MGI Symbol:Acc:MGI:2443542]
ENSMUSG000000029154	Cwh43	-0.66	0.00	0.01	0.36	0.04	1.00	0.01	0.60	0.7892	predicted gene 7892 [Source:MGI Symbol:Acc:MGI:3646299]
ENSMUSG000000044708	Kcnj10	-0.57	0.00	0.01	0.31	0.09	0.78	-0.05	0.82	1.00	potassium inwardly-rectifying channel, subfamily J, member 10 [Source:MGI Symbol:Acc:MGI:1194504]
ENSMUSG000000071650	Ganab	-0.30	0.00	0.01	0.10	0.26	1.00	0.04	0.72	1.00	alpha glucosidase 2 alpha neutral subunit [Source:MGI Symbol:Acc:MGI:1097667]
ENSMUSG000000022013	Dnajc15	-0.73	0.00	0.01	0.44	0.06	0.58	0.15	0.53	1.00	DnaJ (Hsp40) homolog, subfamily C, member 15 [Source:MGI Symbol:Acc:MGI:1913398]
ENSMUSG000000032349	Elof5	-0.57	0.00	0.01	0.33	0.08	0.70	0.10	0.62	1.00	ELOVL family member 5, elongation of long chain fatty acids (yeast) [Source:MGI Symbol:Acc:MGI:1966051]
ENSMUSG000000010453	Kansl3	-0.41	0.00	0.01	-0.01	0.97	1.00	-0.06	0.65	1.00	KAT5 regulatory NSL complex subunit 3 [Source:MGI Symbol:Acc:MGI:1918055]
ENSMUSG000000038807	Rap1gap2	-0.70	0.00	0.01	0.14	0.63	1.00	-0.15	0.47	1.00	RAP1 GTPase activating protein 2 [Source:MGI Symbol:Acc:MGI:3028623]
ENSMUSG000000030764	Mtmr16	-0.43	0.00	0.01	0.38	0.09	0.76	-0.13	0.62	1.00	transmembrane protein 16 [Source:MGI Symbol:Acc:MGI:2683541]
ENSMUSG000000019864	Rtn4p1	-0.64	0.00	0.01	0.49	0.01	0.20	0.14	0.50	1.00	reticulon 4 interacting protein 1 [Source:MGI Symbol:Acc:MGI:2178759]
ENSMUSG000000061751	Kalrn	-1.47	0.00	0.01	0.41	0.60	1.00	0.13	0.72	1.00	kalirin, rhoGEF kinase [Source:MGI Symbol:Acc:MGI:2685385]
ENSMUSG000000062190	Lanc2	-1.37	0.00	0.01	0.64	0.26	1.00	0.07	1.00	1.00	LanC (bacterial lipoteichoic acid synthetase component C)-like 2 [Source:MGI Symbol:Acc:MGI:1919085]
ENSMUSG000000039208	Meitr1	-1.03	0.00	0.01	0.42	0.28	1.00	-0.01	1.00	1.00	metoerin, glial cell differentiation regulator-like [Source:MGI Symbol:Acc:MGI:2384806]
ENSMUSG000000014294	Ndufa2	-0.41	0.00	0.01	0.32	0.00	0.08	0.12	0.39	1.00	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2 [Source:MGI Symbol:Acc:MGI:1343103]
ENSMUSG000000018909	Arnt1	-0.57	0.00	0.01	0.33	0.07	0.64	-0.06	0.75	1.00	arrestin, beta 1 [Source:MGI Symbol:Acc:MGI:59473]
ENSMUSG000000029154	Cwh43	-0.66	0.00	0.01	0.36	0.04	1.00	0.01	0.60	0.7892	predicted gene 7892 [Source:MGI Symbol:Acc:MGI:3646299]
ENSMUSG000000008416	Gm14002	-0.40	0.00	0.01	0.13	0.49	1.00	-0.04	0.		

ENSMUSG00000078772	Gm12353	-0.90	0.00	0.02	0.52	0.12	0.92	0.10	0.79	1.00	predicted gene 12353 [Source:MGJ Symbol:Acc:MGJ:3699710]
ENSMUSG00000026495	Elfca2	-1.48	0.00	0.02	0.45	0.44	1.00	0.08	1.00	1.00	EF-hand calcium binding domain 2 [Source:MGJ Symbol:Acc:MGJ:1915476]
ENSMUSG00000075304	Sp5	-1.16	0.00	0.02	0.72	0.10	0.84	0.01	1.00	1.00	trans-acting transcription factor 5 [Source:MGJ Symbol:Acc:MGJ:1927715]
ENSMUSG00000022246	Rca1	-0.61	0.00	0.02	0.29	0.18	1.00	-0.03	0.95	1.00	retinoic acid inducible 14 [Source:MGJ Symbol:Acc:MGJ:1922896]
ENSMUSG00000047347	Gm5806	-0.85	0.00	0.02	0.03	1.00	1.00	-0.81	0.01	1.00	predicted gene 5806 [Source:MGJ Symbol:Acc:MGJ:3645587]
ENSMUSG00000030101	Sumf1	-0.54	0.00	0.02	0.25	0.17	1.00	0.10	0.60	1.00	sulfatase modifying factor 1 [Source:MGJ Symbol:Acc:MGJ:1889844]
ENSMUSG00000085998	AW82252	-1.94	0.00	0.02	0.67	0.45	1.00	-0.08	1.00	1.00	expressed sequence AW82252 [Source:MGJ Symbol:Acc:MGJ:2148030]
ENSMUSG00000042064	Myo3b	-1.92	0.00	0.02	0.59	0.45	1.00	-0.09	1.00	1.00	myosin IIB [Source:MGJ Symbol:Acc:MGJ:2448580]
ENSMUSG00000001949	Tmc07	-1.71	0.00	0.02	0.99	0.19	1.00	0.00	1.00	1.00	transmembrane and coiled-coil domains 7 [Source:MGJ Symbol:Acc:MGJ:2142786]
ENSMUSG000000021981	Cab39l	-0.80	0.00	0.02	0.38	0.02	0.29	-0.02	0.92	1.00	calcium binding protein 39-like [Source:MGJ Symbol:Acc:MGJ:1914081]
ENSMUSG00000002246	Rer1	-0.61	0.00	0.02	0.29	0.18	1.00	-0.12	0.46	1.00	crista junctional protein 14 [Source:MGJ Symbol:Acc:MGJ:1349469]
ENSMUSG00000044308	Ubr3	-0.37	0.00	0.02	0.33	0.00	0.05	0.13	0.31	1.00	ubiquitin protein ligase E3 component nrcogin 3 [Source:MGJ Symbol:Acc:MGJ:1861100]
ENSMUSG00000002172	Ralgapa1	-0.55	0.00	0.02	0.43	0.02	0.22	0.09	0.66	1.00	Ral GTPase activating protein, alpha subunit 1 [Source:MGJ Symbol:Acc:MGJ:1931050]
ENSMUSG000000017037	Camkmt	-2.74	0.00	0.02	0.15	1.00	1.00	-0.07	1.00	1.00	calmodulin-lysine N-methyltransferase [Source:MGJ Symbol:Acc:MGJ:1920832]
ENSMUSG000000062962	Gm6378	-2.44	0.00	0.02	0.85	0.73	1.00	0.31	0.72	1.00	predicted pseudogene 6378 [Source:MGJ Symbol:Acc:MGJ:3647253]
ENSMUSG000000038502	Plov1	-0.48	0.00	0.02	0.21	0.18	1.00	0.00	1.00	1.00	prostate tumor over expressed gene 1 [Source:MGJ Symbol:Acc:MGJ:1933946]
ENSMUSG000000021375	Klf13a	-0.80	0.00	0.02	0.51	0.07	0.62	0.05	0.87	1.00	kinein family member 13A [Source:MGJ Symbol:Acc:MGJ:1928264]
ENSMUSG00000002948	Rer1	-0.34	0.00	0.02	0.06	0.58	1.00	-0.05	0.70	1.00	RER1 retention in endoplasmic reticulum 1 homolog (S. cerevisiae) [Source:MGJ Symbol:Acc:MGJ:1915080]
ENSMUSG000000028410	DnaJ1	-0.38	0.00	0.02	-0.02	0.83	1.00	0.24	0.07	1.00	DnaJ (Hsp40) homolog, subfamily A, member 1 [Source:MGJ Symbol:Acc:MGJ:1270129]
ENSMUSG000000045045	Lfn4	-1.06	0.00	0.02	0.14	0.79	1.00	-0.31	0.39	1.00	leucine rich repeat and fibronectin type III domain containing 4 [Source:MGJ Symbol:Acc:MGJ:2385612]
ENSMUSG00000045867	Cradd	-1.45	0.00	0.02	0.92	0.07	0.67	0.03	1.00	1.00	CASP2 and RIPK1 domain containing adaptor with death domain [Source:MGJ Symbol:Acc:MGJ:1336168]
ENSMUSG000000085772	D630024D03Rk	-1.38	0.00	0.02	0.65	0.23	1.00	-0.34	0.42	1.00	RIKEN cDNA D630024D03 gene [Source:MGJ Symbol:Acc:MGJ:3041224]
ENSMUSG000000073096	Lrc61	-0.60	0.00	0.02	0.50	0.01	0.17	0.08	0.71	1.00	leucine rich repeat containing 61 [Source:MGJ Symbol:Acc:MGJ:2652848]
ENSMUSG000000019189	Rnf145	-0.39	0.00	0.02	0.02	0.90	1.00	0.00	1.00	1.00	ring finger protein 145 [Source:MGJ Symbol:Acc:MGJ:1921565]
ENSMUSG000000005394	Cy5b	-1.00	0.00	0.02	0.42	0.91	1.00	-0.25	0.11	1.00	cytochrome, type IV, alpha 2 [Source:MGJ Symbol:Acc:MGJ:168465]
ENSMUSG000000052340	Zfp101	-1.01	0.00	0.02	0.28	0.47	1.00	-0.10	0.84	1.00	zinc finger protein 101 [Source:MGJ Symbol:Acc:MGJ:1075474]
ENSMUSG000000027339	Rassf2	-1.99	0.00	0.02	0.48	0.77	1.00	0.12	0.87	1.00	Ras association (RalGDS/AF-6) domain family member 2 [Source:MGJ Symbol:Acc:MGJ:2442060]
ENSMUSG000000076372	Mir568	-1.82	0.00	0.02	0.88	0.33	1.00	-0.12	1.00	1.00	microRNA 568 [Source:MGJ Symbol:Acc:MGJ:3718548]
ENSMUSG000000036817	Sun1	-0.51	0.00	0.02	0.12	0.54	1.00	-0.14	0.44	1.00	Sad1 and UNC84 domain containing 1 [Source:MGJ Symbol:Acc:MGJ:1924303]
ENSMUSG000000067719	Gm10221	-0.40	0.00	0.02	0.23	0.07	0.62	0.12	0.38	1.00	predicted gene 10221 [Source:MGJ Symbol:Acc:MGJ:3708709]
ENSMUSG000000008999	Bmp7	-0.65	0.00	0.02	0.56	0.01	0.11	0.06	0.79	1.00	bone morphogenetic protein 7 [Source:MGJ Symbol:Acc:MGJ:103302]
ENSMUSG000000022799	F3h2	-1.54	0.00	0.02	0.76	0.18	1.00	0.11	0.89	1.00	chromodomain protein, Y chromosome-like 2 [Source:MGJ Symbol:Acc:MGJ:1923046]
ENSMUSG000000006529	Lbr1	-1.51	0.00	0.02	0.28	0.54	1.00	-0.40	0.37	1.00	alpha trypsin inhibitor, heavy chain 1 [Source:MGJ Symbol:Acc:MGJ:96618]
ENSMUSG0000000078139	AK157302	-0.48	0.00	0.02	0.25	0.11	0.89	0.04	0.85	1.00	cDNA sequence AK157302 [Source:MGJ Symbol:Acc:MGJ:3574096]
ENSMUSG000000031605	Khl2	-0.59	0.00	0.02	0.20	0.36	1.00	-0.15	0.42	1.00	kelch-like 2, Maytan (Drosophila) [Source:MGJ Symbol:Acc:MGJ:1924363]
ENSMUSG000000030802	Bckdk	-0.47	0.00	0.02	0.30	0.05	0.53	-0.06	0.71	1.00	branched chain ketoacid dehydrogenase kinase [Source:MGJ Symbol:Acc:MGJ:1276121]
ENSMUSG000000055692	Tmem191c	-0.93	0.00	0.02	0.39	0.26	1.00	0.06	0.93	1.00	transmembrane protein 191C [Source:MGJ Symbol:Acc:MGJ:107238]
ENSMUSG000000005921	Unc5c	-2.09	0.00	0.02	1.23	0.12	0.91	-0.19	0.86	1.00	unc-5 homolog C (C. elegans) [Source:MGJ Symbol:Acc:MGJ:1095412]
ENSMUSG000000022799	F3h2	-0.54	0.00	0.02	0.76	0.18	1.00	0.11	0.89	1.00	chromodomain protein, Y chromosome-like 2 [Source:MGJ Symbol:Acc:MGJ:1923046]
ENSMUSG000000006529	Lbr1	-1.51	0.00	0.02	0.28	0.54	1.00	-0.40	0.37	1.00	alpha trypsin inhibitor, heavy chain 1 [Source:MGJ Symbol:Acc:MGJ:96618]
ENSMUSG000000030259	Rassf8	-0.61	0.00	0.02	0.32	0.14	1.00	-0.03	0.86	1.00	Ras association (RalGDS/AF-6) domain family member 8 [Source:MGJ Symbol:Acc:MGJ:1918573]
ENSMUSG000000002214	Dcaf11	-0.30	0.00	0.02	0.24	0.01	0.15	-0.04	0.77	1.00	DBD1 and CUL4 associated factor 11 [Source:MGJ Symbol:Acc:MGJ:90168]
ENSMUSG000000070394	1810027010Rk	-0.52	0.00	0.02	0.33	0.07	0.63	-0.05	0.78	1.00	RIKEN cDNA 1810027010 gene [Source:MGJ Symbol:Acc:MGJ:1916436]
ENSMUSG000000094665	U6	-1.28	0.00	0.02	-0.29	0.72	1.00	-0.60	0.16	1.00	U6 spliceosomal RNA [Source:RFAM:Acc:RF00026]
ENSMUSG000000047045	Tmem164	-0.74	0.00	0.02	0.41	0.10	0.82	0.04	0.94	1.00	transmembrane protein 164 [Source:MGJ Symbol:Acc:MGJ:2148020]
ENSMUSG000000079488	Cd47	-0.88	0.00	0.02	0.43	0.18	1.00	0.07	0.86	1.00	CD47 antigen (Rh-related antigen, integrin-associated signal transducer) [Source:MGJ Symbol:Acc:MGJ:96617]
ENSMUSG000000023054	Rnf101	-0.86	0.00	0.02	0.73	0.01	0.18	0.05	0.93	1.00	ataxin 7-like 1 [Source:MGJ Symbol:Acc:MGJ:16584458]
ENSMUSG000000001405	Cttnb2	-0.84	0.00	0.02	0.08	0.04	0.48	-0.02	1.00	1.00	cyclin G2 [Source:MGJ Symbol:Acc:MGJ:2151054]
ENSMUSG000000032340	Neof1	-0.60	0.00	0.02	0.30	0.15	1.00	-0.13	0.56	1.00	neoggin [Source:MGJ Symbol:Acc:MGJ:1097159]
ENSMUSG000000073889	Il11ra1	-0.50	0.00	0.02	0.27	0.14	1.00	-0.04	0.87	1.00	interleukin 11 receptor, alpha chain 1 [Source:MGJ Symbol:Acc:MGJ:107426]
ENSMUSG000000022884	Eif4a2	-0.23	0.00	0.02	0.01	0.89	1.00	-0.01	0.89	1.00	eukaryotic translation initiation factor 4A2 [Source:MGJ Symbol:Acc:MGJ:106906]
ENSMUSG000000027965	Olfm3	-1.04	0.00	0.02	0.99	0.00	0.08	0.22	0.49	1.00	olfactomedin 3 [Source:MGJ Symbol:Acc:MGJ:2387329]
ENSMUSG000000014850	Msh3	-1.04	0.00	0.02	0.71	0.06	0.56	-0.01	1.00	1.00	mus81 homolog 3 (E. coli) [Source:MGJ Symbol:Acc:MGJ:109519]
ENSMUSG000000027965	F3h2	-0.54	0.00	0.02	0.76	0.18	1.00	0.11	0.89	1.00	FYVE, RhoGEF, and PH domain containing 4 [Source:MGJ Symbol:Acc:MGJ:2183747]
ENSMUSG000000018426	Gq4	-0.26	0.00	0.02	0.04	0.06	0.56	0.07	1.00	1.00	transmembrane helix DNA binding protein 4 [Source:MGJ Symbol:Acc:MGJ:1344395]
ENSMUSG000000009304	Tomn20	-0.29	0.00	0.02	0.16	0.07	0.63	0.06	0.58	1.00	translocase of outer mitochondrial membrane 20 homolog (yeast) [Source:MGJ Symbol:Acc:MGJ:1915202]
ENSMUSG000000044026	Tmem20	-0.72	0.00	0.02	0.29	0.29	1.00	-0.01	1.00	1.00	transmembrane protein 20 [Source:MGJ Symbol:Acc:MGJ:2444789]
ENSMUSG000000028973	Abcb8	-0.48	0.00	0.02	0.38	0.02	0.22	-0.03	0.89	1.00	ATP-binding cassette, sub-family B (MDR/TAP), member 8 [Source:MGJ Symbol:Acc:MGJ:1351667]
ENSMUSG000000067567	Hdac8	-1.63	0.00	0.02	0.90	0.23	1.00	0.00	1.00	1.00	histone deacetylase 8 [Source:MGJ Symbol:Acc:MGJ:1917565]
ENSMUSG000000073719	Vps13d	-1.09	0.00	0.02	0.61	0.12	0.94	-0.06	0.92	1.00	vacuolar protein sorting 13 D (yeast) [Source:MGJ Symbol:Acc:MGJ:2448530]
ENSMUSG000000001254	Fspn7	-0.69	0.00	0.02	0.44	0.16	0.10	0.11	0.73	1.00	ataxin 7-like 1 [Source:MGJ Symbol:Acc:MGJ:1298407]
ENSMUSG000000041737	Tmem45b	-0.69	0.00	0.02	0.02	0.98	1.00	0.00	1.00	1.00	transmembrane protein 45b [Source:MGJ Symbol:Acc:MGJ:2284574]
ENSMUSG000000037685	Atpsa1	-0.99	0.00	0.02	-0.17	0.69	1.00	-0.16	0.61	1.00	ATPase, aminophospholipid transporter (APLT), type I, class 8A, member 1 [Source:MGJ Symbol:Acc:MGJ:1330848]
ENSMUSG000000005547	Cyp2a5	-0.54	0.00	0.02	-0.46	0.01	0.09	-0.37	0.02	1.00	cytochrome P450, family 2, subfamily A, polypeptide 5 [Source:MGJ Symbol:Acc:MGJ:88597]
ENSMUSG000000024795	Kif20b	-1.36	0.00	0.02	-0.05	1.00	1.00	0.84	0.01	1.00	kinesin family member 20B [Source:MGJ Symbol:Acc:MGJ:2444576]
ENSMUSG000000074749	Plk1	-0.80	0.00	0.02	0.48	0.08	0.69	0.10	0.75	1.00	polo-like kinase 1 substrate 1 [Source:MGJ Symbol:Acc:MGJ:2684960]
ENSMUSG000000019818	Cd164	-0.24	0.00	0.02	-0.02	0.76	1.00	0.03	0.79	1.00	CD164 antigen [Source:MGJ Symbol:Acc:MGJ:1859568]
ENSMUSG000000033083	Tctc194	-1.04	0.00	0.02	0.42	0.26	1.00	-0.14	0.68	1.00	TBC1 domain family, member 4 [Source:MGJ Symbol:Acc:MGJ:2429660]
ENSMUSG000000008172	Sno2	-0.81	0.00	0.02	0.14	0.98	1.00	-0.02	1.00	1.00	transmembrane transport 140 [Source:MGJ Symbol:Acc:MGJ:2146950]
ENSMUSG0000000038291	Snox2	-0.01	0.00	0.02	0.51	0.07	0.66	0.02	1.00	1.00	sorting nexin 25 [Source:MGJ Symbol:Acc:MGJ:2142610]
ENSMUSG000000019769	Syne1	-0.88	0.00	0.03	0.09	0.82	1.00	-0.15	0.70	1.00	synaptic nuclear envelope 1 [Source:MGJ Symbol:Acc:MGJ:1927152]
ENSMUSG000000022844	Pdia5	-1.22	0.00	0.03	0.73	0.11	0.87	-0.06	1.00	1.00	protein disulfide isomerase associated 5 [Source:MGJ Symbol:Acc:MGJ:1919849]
ENSMUSG000000030706	Gm11408	-1.22	0.00	0.03	0.33	0.53	1.00	0.21	0.57	1.00	predicted gene 11408 [Source:MGJ Symbol:Acc:MGJ:3651130]
ENSMUSG000000030022	Adams19	-0.88	0.00	0.03	0.58	0.05	0.55	0.08	0.86	1.00	a disintegrin-like and metalloprotease (prolysin type) with thrombospondin type 1 motif, 9 [Source:MGJ Symbol:Acc:MGJ:1916320]
ENSMUSG000000022377	Asap1	-0.88	0.00	0.03	0.43	0.18	1.00	0.11	0.72	1.00	ArlGAP with SH3 domain, ankyrin repeat and PH domain [Source:MGJ Symbol:Acc:MGJ:1342335]
ENSMUSG000000006530	Smc1	-0.59	0.00	0.03	0.03	0.98	1.00	0.09	0.85	1.00	SMC1 domain containing 1 [Source:MGJ Symbol:Acc:MGJ:1918889]
ENSMUSG000000009739	Pou6f1	-0.58	0.00	0.03	0.24	0.27	1.00	-0.04	0.90	1.00	POU domain, class 6, transcription factor 1 [Source:MGJ Symbol:Acc:MGJ:102935]
ENSMUSG000000026365	Ch	-0.51	0.00	0.03	-0.08	0.60	1.00	0.04	0.86	1.00	complement component factor h [Source:MGJ Symbol:Acc:MGJ:88385]
ENSMUSG000000030905	Crym	-0.44	0.00	0.03	0.35	0.02	0.23	-0.06	0.69	1.00	crystallin, mu [Source:MGJ Symbol:Acc:MGJ:102675]
ENSMUSG000000041216	C1vs1	-1.69	0.00	0.03	1.02	0.15	1.00	-0.07	1.00	1.00	clavesin 1 [Source:MGJ Symbol:Acc:MGJ:1921688]
ENSMUSG000000031684	Slc10a7	-1.83	0.00	0.03	0.68	0.38	1.00	0.04	1.00	1.00	solute carrier family 10 (sodium/bile acid cotransporter family), member 7 [Source:MGJ Symbol:Acc:MGJ:1924025]
ENSMUSG000000085897	Mpl450	-1.61	0.00	0.03	0.88	0.21	1.00	0.10	1.00	1.00	predicted gene 14540 [Source:MGJ Symbol:Acc:MGJ:3705140]
ENSMUSG000000005236	Slc12a8	-0.84	0.00	0.03	0.08	0.98	1.00	-0.17			

ENSMUSG00000022309	Angpt1	-1.29	0.00	0.03	0.28	0.72	1.00	-0.03	1.00	1.00	angiopoietin 1 [Source:MGJ SymbolAcc:MGJ:108448]
ENSMUSG00000027634	Ndir3	-0.44	0.00	0.03	0.31	0.04	0.40	-0.03	0.89	1.00	N-myc downstream regulated gene 3 [Source:MGJ SymbolAcc:MGJ:1352499]
ENSMUSG00000042302	Ehbp1	-1.18	0.00	0.03	1.01	0.01	0.21	0.09	0.91	1.00	EH domain binding protein 2 [Source:MGJ SymbolAcc:MGJ:2667252]
ENSMUSG00000034930	Sca2a12	-1.16	0.00	0.03	0.64	0.14	1.00	-0.06	0.91	1.00	solute carrier family 2 (facilitated glucose transporter), member 12 [Source:MGJ SymbolAcc:MGJ:3052471]
ENSMUSG00000042675	Ypeb3	-0.46	0.00	0.03	0.11	0.50	1.00	-0.15	0.39	1.00	yippebe-like 3 (Drosophila) [Source:MGJ SymbolAcc:MGJ:1913340]
ENSMUSG00000038663	Syde2	-0.71	0.00	0.03	0.61	0.01	0.19	-0.08	0.75	1.00	synapse defective 1, Rho GTPase, homolog 2 (C. elegans) [Source:MGJ SymbolAcc:MGJ:3036264]
ENSMUSG00000029016	Cln6	-0.70	0.00	0.03	0.30	0.25	1.00	-0.22	0.37	1.00	chloride channel 6 [Source:MGJ SymbolAcc:MGJ:1347049]
ENSMUSG00000026179	Pnk4	-0.40	0.00	0.03	0.36	0.01	0.09	-0.10	0.52	1.00	paroxysmal nonkinetogenic dyskinesia [Source:MGJ SymbolAcc:MGJ:1930773]
ENSMUSG00000037016	Frem2	-1.20	0.00	0.03	0.34	0.51	1.00	-0.01	1.00	1.00	Fras1 related extracellular matrix protein 2 [Source:MGJ SymbolAcc:MGJ:2444465]
ENSMUSG00000045100	Slc25a26	-1.02	0.00	0.03	0.59	0.10	0.84	-0.05	0.92	1.00	solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 26 [Source:MGJ SymbolAcc:MGJ:1914832]
ENSMUSG00000037898	Serap1	-0.35	0.00	0.03	0.39	0.24	1.00	-0.09	0.79	1.00	stress-associated endoplasmic reticulum protein 1 [Source:MGJ SymbolAcc:MGJ:1918201]
ENSMUSG00000030225	Dera	-0.52	0.00	0.03	0.36	0.04	0.46	0.04	0.86	1.00	2-deoxyribose-5-phosphate aldolase homolog (C. elegans) [Source:MGJ SymbolAcc:MGJ:1913762]
ENSMUSG00000036322	H2-E-ps	-0.75	0.00	0.03	-0.06	0.92	1.00	-0.06	0.87	1.00	histocompatibility 2, class II antigen E alpha, pseudogene [Source:MGJ SymbolAcc:MGJ:95900]
ENSMUSG00000025702	March8	-0.28	0.00	0.03	0.17	0.06	0.58	-0.01	0.94	1.00	membrane-associated ring finger (C3HC4) 8 [Source:MGJ SymbolAcc:MGJ:1919029]
ENSMUSG00000028763	Hspg2	-0.50	0.00	0.04	-0.13	0.47	1.00	-0.25	0.20	1.00	perlecan (heparan sulfate proteoglycan 2) [Source:MGJ SymbolAcc:MGJ:96257]
ENSMUSG00000005640	Insr	-0.60	0.00	0.04	0.28	0.20	1.00	-0.09	0.73	1.00	insulin receptor-related receptor [Source:MGJ SymbolAcc:MGJ:1346037]
ENSMUSG00000039899	Jodc2	-0.51	0.00	0.04	-0.06	0.84	1.00	-0.03	0.91	1.00	Josephin domain containing 2 [Source:MGJ SymbolAcc:MGJ:1913374]
ENSMUSG00000029188	Serap12	-0.35	0.00	0.04	0.39	0.24	1.00	-0.09	0.79	1.00	serpin peptidase inhibitor type 12 [Source:MGJ SymbolAcc:MGJ:92638]
ENSMUSG00000059851	Suv420h2	-0.52	0.00	0.04	0.40	0.03	0.35	-0.03	0.95	1.00	suppressor of variegation 4-20 homolog 2 (Drosophila) [Source:MGJ SymbolAcc:MGJ:2385262]
ENSMUSG00000043671	Dpy19l3	-1.06	0.00	0.04	0.56	0.15	1.00	-0.09	0.82	1.00	dpy-19-like 3 (C. elegans) [Source:MGJ SymbolAcc:MGJ:2443952]
ENSMUSG00000039763	Dnajc28	-0.92	0.01	0.04	0.41	0.25	1.00	-0.06	0.92	1.00	Dnaj (Hsp40) homolog, subfamily C, member 28 [Source:MGJ SymbolAcc:MGJ:2181053]
ENSMUSG00000059022	Kcp	-0.92	0.01	0.04	0.45	0.21	1.00	-0.16	0.61	1.00	kelin/chordin-like protein [Source:MGJ SymbolAcc:MGJ:2141640]
ENSMUSG00000060681	Slc9a6	-0.55	0.01	0.04	0.32	0.13	0.96	0.08	0.71	1.00	solute carrier family 9 (sodium/hydrogen exchanger), member 6 [Source:MGJ SymbolAcc:MGJ:2443511]
ENSMUSG00000002859	Dock7	-0.62	0.01	0.04	0.38	0.08	0.69	-0.12	0.62	1.00	dedicator of cytokinesis 7 [Source:MGJ SymbolAcc:MGJ:1914549]
ENSMUSG00000037898	Gm7457	-0.72	0.01	0.04	0.35	0.18	1.00	0.06	0.60	1.00	predicted gene 7457 [Source:MGJ SymbolAcc:MGJ:2646124]
ENSMUSG00000046480	Scrb4	-0.70	0.01	0.04	0.35	0.18	1.00	0.06	0.88	1.00	sodium channel, type IV, beta 1 [Source:MGJ SymbolAcc:MGJ:2887406]
ENSMUSG000000051339	2900026A02Rik	-0.70	0.01	0.04	0.59	0.02	0.30	0.00	1.00	1.00	RIKEN cDNA 2900026A02 gene [Source:MGJ SymbolAcc:MGJ:1920194]
ENSMUSG00000042286	Ccny	-0.43	0.01	0.04	0.31	0.04	0.41	0.07	0.67	1.00	cyclin Y [Source:MGJ SymbolAcc:MGJ:1915224]
ENSMUSG000000052331	Ankrd44	-1.11	0.01	0.04	0.32	0.56	1.00	-0.04	1.00	1.00	ankyrin repeat domain 44 [Source:MGJ SymbolAcc:MGJ:3045243]
ENSMUSG00000031608	Gah7	-1.09	0.01	0.04	0.74	0.08	0.71	0.13	0.74	1.00	UDP-N-acetyl-alpha-D-galactosamine: polypeptide N-acetylgalactosaminyltransferase 7 [Source:MGJ SymbolAcc:MGJ:1349449]
ENSMUSG00000004447	Dock5	-0.62	0.01	0.04	0.40	0.08	0.69	0.11	0.62	1.00	dedicator of cytokinesis 5 [Source:MGJ SymbolAcc:MGJ:1914549]
ENSMUSG00000002923	Elovl6	-1.43	0.01	0.04	0.68	0.13	0.59	0.20	0.91	1.00	small nuclear RNA SNORA17 [Source:MGJ SymbolAcc:MGJ:3646124]
ENSMUSG00000078370	Gm6316	-0.35	0.01	0.04	0.18	1.14	1.00	-0.02	0.89	1.00	predicted pseudogene 6316 [Source:MGJ SymbolAcc:MGJ:3646088]
ENSMUSG00000037949	Ano10	-0.67	0.01	0.04	0.67	0.01	0.09	0.12	0.65	1.00	annectin 10 [Source:MGJ SymbolAcc:MGJ:2143103]
ENSMUSG00000040350	Trim7	-0.30	0.01	0.04	0.09	0.37	1.00	0.06	0.64	1.00	tripartite motif-containing 7 [Source:MGJ SymbolAcc:MGJ:2137353]
ENSMUSG00000002669	Mcm10	-1.64	0.01	0.04	0.77	0.38	1.00	0.36	0.47	1.00	minichromosome maintenance deficient 10 (S. cerevisiae) [Source:MGJ SymbolAcc:MGJ:1917274]
ENSMUSG00000036298	Slc2a13	-1.63	0.01	0.04	0.63	0.50	1.00	0.16	0.77	1.00	solute carrier family 2 (facilitated glucose transporter), member 13 [Source:MGJ SymbolAcc:MGJ:2146030]
ENSMUSG000000040929	Rtk3	-1.58	0.01	0.04	0.84	0.29	1.00	0.09	1.00	1.00	regulatory factor X, 3 (influences HLA class II expression) [Source:MGJ SymbolAcc:MGJ:106582]
ENSMUSG00000002785	Tpm7	-1.43	0.01	0.04	0.22	0.03	0.39	-0.01	0.59	1.00	transient receptor potential cation channel, subfamily M, member 7 [Source:MGJ SymbolAcc:MGJ:1929996]
ENSMUSG00000046668	Cacx5	-0.39	0.01	0.04	0.26	0.06	0.56	0.25	0.10	1.00	CXCR3 ligand 5 [Source:MGJ SymbolAcc:MGJ:1914643]
ENSMUSG000000052459	Atp6v1a	-0.22	0.01	0.04	0.14	0.02	0.23	0.19	0.05	1.00	ATPase, H+ transporting, lysosomal V1 subunit A [Source:MGJ SymbolAcc:MGJ:1201780]
ENSMUSG00000053317	Sec61b	-0.59	0.01	0.04	0.32	0.15	1.00	0.06	0.84	1.00	Sec61 beta subunit [Source:MGJ SymbolAcc:MGJ:1913462]
ENSMUSG000000068732	Tmem167b	-0.46	0.01	0.04	0.15	0.37	1.00	0.00	1.00	1.00	transmembrane protein 167b [Source:MGJ SymbolAcc:MGJ:1914745]
ENSMUSG00000090105	Gm15890	-1.14	0.01	0.04	0.97	0.02	0.23	0.05	0.91	1.00	predicted gene 15890 [Source:MGJ SymbolAcc:MGJ:3802160]
ENSMUSG000000064792	SNORA32	-1.11	0.01	0.04	0.47	0.30	1.00	0.14	0.82	1.00	Small nuclear RNA SNORA32 [Source:MGJ SymbolAcc:MGJ:3802160]
ENSMUSG00000059586	Nsmc2	-0.51	0.01	0.04	0.68	0.13	0.59	0.20	0.91	1.00	non-SMC element 2 homolog (MMS21, S. cerevisiae) [Source:MGJ SymbolAcc:MGJ:1915751]
ENSMUSG00000002661	Scrb4	-0.51	0.01	0.04	0.35	0.18	1.00	0.06	0.69	1.00	sodium channel, type IV, beta 1 [Source:MGJ SymbolAcc:MGJ:192271]
ENSMUSG000000064349	mt-Tc	-1.21	0.01	0.04	-0.60	0.02	0.31	0.14	0.80	1.00	mitochondrially encoded tRNA cysteine [Source:MGJ SymbolAcc:MGJ:102490]
ENSMUSG00000046254	Eth1	-0.33	0.01	0.04	0.03	0.82	1.00	-0.04	0.79	1.00	ethylmalonic encephalopathy 1 [Source:MGJ SymbolAcc:MGJ:1913321]
ENSMUSG000000026740	Dnajc1	-0.52	0.01	0.04	0.36	0.06	0.56	0.06	0.81	1.00	Dnaj (Hsp40) homolog, subfamily C, member 1 [Source:MGJ SymbolAcc:MGJ:103268]
ENSMUSG00000006057	Atp5g1	-0.31	0.01	0.04	0.26	0.01	0.10	0.13	0.26	1.00	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c1 (subunit 9) [Source:MGJ SymbolAcc:MGJ:107653]
ENSMUSG000000021121	Bcar3	-0.70	0.01	0.04	0.32	0.22	1.00	-0.23	0.37	1.00	breast cancer anti-estrogen resistance 3 [Source:MGJ SymbolAcc:MGJ:1352501]
ENSMUSG000000043320	Mycy2	-0.79	0.01	0.04	0.28	0.41	1.00	-0.16	0.59	1.00	ELOVL1 family member 6, elongation of long chain fatty acids (yeast) [Source:MGJ SymbolAcc:MGJ:2156628]
ENSMUSG000000028937	Aco7	-1.20	0.01	0.04	0.85	0.08	0.70	-0.13	0.90	1.00	acyl-CoA thioesterase 7 [Source:MGJ SymbolAcc:MGJ:1917275]
ENSMUSG00000032066	Bco2	-1.18	0.01	0.04	0.64	0.17	1.00	-0.10	0.90	1.00	beta-carotene oxygenase 2 [Source:MGJ SymbolAcc:MGJ:2177468]
ENSMUSG00000005682	Par2	-0.56	0.01	0.04	0.15	0.51	1.00	-0.12	0.59	1.00	PAR2 poly A specific ribonuclease subunit homolog (S. cerevisiae) [Source:MGJ SymbolAcc:MGJ:1918994]
ENSMUSG00000021044	Adck1	-0.88	0.01	0.04	0.50	0.13	0.98	-0.15	0.63	1.00	aaRF domain containing kinase 1 [Source:MGJ SymbolAcc:MGJ:1919363]
ENSMUSG000000024462	Gabbr1	-0.80	0.01	0.04	0.15	0.59	1.00	-0.05	0.83	1.00	gamma-aminobutyric acid (GABA) B receptor, 1 [Source:MGJ SymbolAcc:MGJ:1860139]
ENSMUSG00000002901	Hbbp	-0.43	0.01	0.04	0.34	0.02	0.23	0.07	0.71	1.00	Hepatitis B virus X interacting protein [Source:MGJ SymbolAcc:MGJ:1915826]
ENSMUSG00000009286	Mycy2	-0.38	0.01	0.04	0.27	0.02	0.29	0.06	0.69	1.00	myc binding protein 2 [Source:MGJ SymbolAcc:MGJ:2179432]
ENSMUSG000000048731	Gngtbp1	-0.57	0.01	0.04	0.08	0.76	1.00	-0.01	1.00	1.00	gametogenin binding protein 1 [Source:MGJ SymbolAcc:MGJ:3055306]
ENSMUSG00000034724	Cnot6f	-0.48	0.01	0.04	0.22	0.25	1.00	0.04	0.87	1.00	CCR4-NOT transcription complex, subunit 6-like [Source:MGJ SymbolAcc:MGJ:2443154]
ENSMUSG000000026603	Smyd2	-0.75	0.01	0.04	0.28	0.38	1.00	-0.14	0.66	1.00	SET and MYND domain containing 2 [Source:MGJ SymbolAcc:MGJ:1915889]
ENSMUSG00000010663	Fads1	-0.36	0.01	0.04	0.06	0.68	1.00	-0.04	0.77	1.00	fatty acid desaturase 1 [Source:MGJ SymbolAcc:MGJ:1923517]
ENSMUSG000000081752	Gm14680	-0.96	0.01	0.04	0.24	0.52	1.00	-0.07	0.92	1.00	predicted gene 14680 [Source:MGJ SymbolAcc:MGJ:3705601]
ENSMUSG00000075033	Npep3	-0.79	0.01	0.04	0.14	0.68	1.00	0.29	0.28	1.00	nucleolar phosphoprotein 3 [Source:MGJ SymbolAcc:MGJ:2686598]
ENSMUSG000000047733	SNORA72	-0.74	0.01	0.04	0.49	0.23	1.00	-0.03	0.37	1.00	Small nuclear RNA SNORA72 [Source:MGJ SymbolAcc:MGJ:1923510]
ENSMUSG000000093772	4931403E22Rik	-1.05	0.01	0.04	0.52	0.22	1.00	0.32	0.34	1.00	RIKEN cDNA 4931403E22 gene [Source:MGJ SymbolAcc:MGJ:1918192]
ENSMUSG00000042727	Trpm6	-1.72	0.01	0.04	0.17	1.00	1.00	-0.04	1.00	1.00	transient receptor potential cation channel, subfamily M, member 6 [Source:MGJ SymbolAcc:MGJ:2676603]
ENSMUSG000000022861	Dgkq	-1.60	0.01	0.04	1.02	0.13	0.99	-0.11	1.00	1.00	diacylglycerol kinase, gamma [Source:MGJ SymbolAcc:MGJ:105060]
ENSMUSG000000054455	Vapb	-0.36	0.01	0.04	0.24	0.06	0.56	0.04	0.80	1.00	solute-associated membrane protein, associated protein B and C [Source:MGJ SymbolAcc:MGJ:1928744]
ENSMUSG000000038641	Ccdc148	-1.54	0.01	0.04	0.28	0.82	1.00	0.05	1.00	1.00	coiled-coil domain containing 148 [Source:MGJ SymbolAcc:MGJ:3039583]
ENSMUSG00000027523	Gnas	-0.50	0.01	0.04	0.05	0.39	1.00	-0.04	0.63	1.00	GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus [Source:MGJ SymbolAcc:MGJ:95777]
ENSMUSG000000097291	Hbbp	-0.43	0.01	0.04	0.34	0.02	0.23	0.07	0.71	1.00	Hepatitis B virus X interacting protein [Source:MGJ SymbolAcc:MGJ:1915826]
ENSMUSG000000033624	Pdpr	-0.56	0.01	0.04	0.38	0.06	0.60	0.13	0.52	1.00	pyruvate dehydrogenase phosphatase regulatory subunit [Source:MGJ SymbolAcc:MGJ:2442188]
ENSMUSG00000022790	Igfbp1	-0.44	0.01	0.04	0.38	0.01	0.18	-0.24	0.16	1.00	immunoglobulin superfamily, member 11 [Source:MGJ SymbolAcc:MGJ:2388477]
ENSMUSG000000064917	sno239	-0.61	0.01	0.04	0.37	0.10	0.83	0.13	0.57	1.00	Small nuclear RNA Z39 [Source:MGJ SymbolAcc:MGJ:300341]
ENSMUSG000000066832	Pgk1-1st	-0.27	0.01	0.04	0.20	0.02	0.24	0.19	0.07	1.00	phosphoglycerate kinase-1, related sequence-7 [Source:MGJ SymbolAcc:MGJ:97562]
ENSMUSG000000085793	Lin5	-0.87	0.01	0.04	0.50	0.15	1.00	0.08	0.85	1.00	lin-5 homolog (C. elegans) [Source:MGJ SymbolAcc:MGJ:3045391]
ENSMUSG000000001151	Pfnc1	-0.69	0.01	0.04	0.59	0.02	0.23	-0.03	1.00	1.00	pericentriolar (Ndc80) [Source:MGJ SymbolAcc:MGJ:107222]
ENSMUSG000000048292	Adsp2	-0.38	0.01	0.04	0.13	0.02	0.29	0.06	0.69	1.00	myc binding protein 2 [Source:MGJ SymbolAcc:MGJ:2179432]
ENSMUSG000000019763	Rmnd1	-0.46	0.01	0.04	0.28	0.11	0.85	-0.03	0.92	1.00	required for meiotic nuclear division 1 homolog (S. cerevisiae) [Source:MGJ SymbolAcc:MGJ:1913334]
ENSMUSG00000048442	2210020M01Rik	-1.11	0.01	0.04	0.43	0.38	1.00	-0.02	1.00	1.00	RIKEN cDNA 2210020M01 gene [Source:MGJ SymbolAcc:MGJ:1913778]
ENSMUSG00000042662	Dusp15	-1.11	0.01	0.04	0.14	0.88	1.00</				

Sup. Table 1 SET VI

ENSEMBL	Symbol	CP versus Sal	CP versus CP+DCA	DCA versus Sal	FDR	logFC	Pvalue	DCA Desc
ENSMUSG000000027199	Gatm	-3.71	0.00	0.64	0.00	0.18	0.11	1.00 glycine amidinotransferase (L-arginine:glycine amidinotransferase) [Source:MGI Symbol;Acc:MGI:1914342]
ENSMUSG000000012490	Sic34a1	-2.11	0.00	0.79	0.00	-0.14	0.05	1.00 solute carrier family 34 (sodium phosphate), member 1 [Source:MGI Symbol;Acc:MGI:1345284]
ENSMUSG000000028713	Cyp4b1	-1.69	0.00	0.68	0.00	-0.03	0.70	1.00 cytochrome P450, family 4, subfamily b, polypeptide 1 [Source:MGI Symbol;Acc:MGI:103225]
ENSMUSG000000059880	Drase1	-3.12	0.00	0.11	0.00	-0.05	0.75	1.00 deoxyribonuclease I [Source:MGI Symbol;Acc:MGI:103157]
ENSMUSG000000022186	Oxct1	-1.54	0.00	0.56	0.00	0.01	0.82	1.00 3-oxoacid CoA transferase 1 [Source:MGI Symbol;Acc:MGI:1914291]
ENSMUSG000000024892	Pcx	-2.45	0.00	0.73	0.00	0.34	0.00	0.14 pyruvate carboxylase [Source:MGI Symbol;Acc:MGI:97520]
ENSMUSG000000025479	Cyp2e1	-2.51	0.00	0.62	0.00	-0.29	0.05	1.00 cytochrome P450, family 2, subfamily e, polypeptide 1 [Source:MGI Symbol;Acc:MGI:88607]
ENSMUSG000000031441	Afp11a	-2.25	0.00	0.85	0.00	0.36	0.00	0.00 ATPase, class VI, type 11A [Source:MGI Symbol;Acc:MGI:1354735]
ENSMUSG000000024966	Afp1	-2.41	0.00	0.77	0.00	0.20	0.02	1.00 aspartate aminocyclase 3 [Source:MGI Symbol;Acc:MGI:1918920]
ENSMUSG000000049790	Gm15879	-3.11	0.00	0.08	0.00	-0.05	0.74	1.00 predicted gene 15879 [Source:MGI Symbol;Acc:MGI:3802012]
ENSMUSG000000020051	Pah	-1.71	0.00	0.76	0.00	-0.03	0.74	1.00 phenylalanine hydroxylase [Source:MGI Symbol;Acc:MGI:97473]
ENSMUSG000000097458	ALB31764.1	-2.26	0.00	0.07	0.00	0.01	0.90	1.00 0
ENSMUSG000000076441	Asa1	-2.16	0.00	0.98	0.00	-0.18	0.03	1.00 argininosuccinate synthetase 1 [Source:MGI Symbol;Acc:MGI:88090]
ENSMUSG000000022813	Mixx	-2.39	0.00	0.56	0.00	-0.14	0.21	1.00 myo-inositol oxygenase [Source:MGI Symbol;Acc:MGI:1891725]
ENSMUSG000000049152	Ugr3a2	-1.65	0.00	0.51	0.00	-0.08	0.30	1.00 UDP glycosyltransferase 3 family, polypeptide A2 [Source:MGI Symbol;Acc:MGI:2145969]
ENSMUSG000000020204	Napsa	-1.22	0.00	0.26	0.00	-0.21	0.00	0.73 napsin A aspartic peptidase [Source:MGI Symbol;Acc:MGI:109365]
ENSMUSG000000031766	Sic12a3	-2.76	0.00	0.44	0.04	0.03	0.66	1.00 solute carrier family 12, member 3 [Source:MGI Symbol;Acc:MGI:108114]
ENSMUSG000000025262	Sic2a20	-2.88	0.00	1.23	0.00	0.20	0.08	1.00 solute carrier family 22, member 30 [Source:MGI Symbol;Acc:MGI:2442750]
ENSMUSG000000046887	Gm15428	-2.17	0.00	1.00	0.00	-0.20	0.04	1.00 predicted gene 15424 [Source:MGI Symbol;Acc:MGI:3643173]
ENSMUSG000000036590	U222228	-2.90	0.00	0.56	0.00	-0.20	0.34	1.00 solute carrier family 22, member 28 [Source:MGI Symbol;Acc:MGI:3645714]
ENSMUSG000000027227	Sord	-1.88	0.00	0.86	0.00	0.07	0.43	1.00 sorbitol dehydrogenase [Source:MGI Symbol;Acc:MGI:98266]
ENSMUSG000000061838	Sudg2	-1.75	0.00	0.49	0.00	-0.22	0.01	1.00 succinate-Coenzyme A ligase, GDP-forming, beta subunit [Source:MGI Symbol;Acc:MGI:1306824]
ENSMUSG000000035878	Aghp1b	-2.17	0.00	1.09	0.00	0.07	0.51	1.00 aminoglycoside phosphotransferase domain containing 1 [Source:MGI Symbol;Acc:MGI:2443139]
ENSMUSG000000030477	Inmt1	-2.27	0.00	0.60	0.00	-0.13	0.33	1.00 indolethylamine N-methyltransferase [Source:MGI Symbol;Acc:MGI:102963]
ENSMUSG000000032473	Afp11b	-2.74	0.00	0.74	0.00	0.20	0.01	1.00 meprin 1 beta [Source:MGI Symbol;Acc:MGI:96464]
ENSMUSG000000033610	Pank1	-2.00	0.00	0.95	0.00	0.15	0.19	1.00 pantothanate kinase 1 [Source:MGI Symbol;Acc:MGI:1922985]
ENSMUSG000000033533	Acsm1	-1.63	0.00	0.57	0.00	-0.04	0.65	1.00 acyl-CoA synthetase medium-chain family member 1 [Source:MGI Symbol;Acc:MGI:2152200]
ENSMUSG000000032047	Acat1	-1.74	0.00	0.60	0.00	-0.04	0.58	1.00 acyl-Coenzyme A acetyltransferase 1 [Source:MGI Symbol;Acc:MGI:87870]
ENSMUSG000000022679	Mpv17	-1.81	0.00	0.71	0.00	0.38	0.00	0.10 Mpv17 transgene, kidney disease mutant-like [Source:MGI Symbol;Acc:MGI:2135951]
ENSMUSG000000054733	Msr3	-1.98	0.00	0.86	0.00	-0.08	0.50	1.00 methionine sulfide reductase A [Source:MGI Symbol;Acc:MGI:106916]
ENSMUSG000000033122	06110012H03Rrk	-2.51	0.00	0.52	0.00	0.35	0.02	0.25 RIKEN cDNA 06110012H03 gene [Source:MGI Symbol;Acc:MGI:1921338]
ENSMUSG000000030935	Acsm3	-2.94	0.00	0.96	0.00	-0.89	0.00	0.00 acyl-CoA synthetase medium-chain family member 3 [Source:MGI Symbol;Acc:MGI:99538]
ENSMUSG000000030945	Acsm2	-1.74	0.00	0.68	0.00	0.08	0.36	1.00 acyl-CoA synthetase medium-chain family member 2 [Source:MGI Symbol;Acc:MGI:2385289]
ENSMUSG000000058997	Vwa8	-2.23	0.00	0.74	0.00	-0.17	0.10	1.00 von Willebrand factor A domain containing 8 [Source:MGI Symbol;Acc:MGI:1919008]
ENSMUSG000000032373	Car12	-1.66	0.00	1.59	0.00	-0.07	0.46	1.00 carbonic anhydrase 12 [Source:MGI Symbol;Acc:MGI:1923709]
ENSMUSG000000032761	Afp1	-2.89	0.00	0.84	0.00	-0.12	0.58	1.00 cubilin (retinotic factor) cubilin receptor [Source:MGI Symbol;Acc:MGI:1931256]
ENSMUSG000000039197	Adk	-2.90	0.00	0.48	0.00	0.03	0.84	1.00 adenosine kinase [Source:MGI Symbol;Acc:MGI:87930]
ENSMUSG000000025698	Tln2	-2.24	0.00	0.82	0.00	-0.09	0.47	1.00 talin 2 [Source:MGI Symbol;Acc:MGI:1917799]
ENSMUSG000000072664	Ugr3a1	-1.83	0.00	0.85	0.00	-0.31	0.00	0.54 UDP glycosyltransferase 3 family, polypeptide A1 [Source:MGI Symbol;Acc:MGI:2146055]
ENSMUSG000000058914	C1qtnf3	-2.81	0.00	1.07	0.00	-0.04	0.79	1.00 C1q and tumor necrosis factor related protein 3 [Source:MGI Symbol;Acc:MGI:1932136]
ENSMUSG000000022244	Amarc1	-1.97	0.00	0.81	0.00	0.37	0.02	0.29 alpha-methylacyl-CoA racemase [Source:MGI Symbol;Acc:MGI:1098273]
ENSMUSG000000033512	06110012H03Rrk	-2.51	0.00	0.50	0.00	0.17	0.02	1.00 4-aminobutyrate aminotransferase [Source:MGI Symbol;Acc:MGI:2443582]
ENSMUSG000000055373	Fu9	-2.03	0.00	1.09	0.00	0.04	0.65	1.00 fucosyltransferase 9 [Source:MGI Symbol;Acc:MGI:1330859]
ENSMUSG000000069805	Fbp1	-1.90	0.00	0.92	0.00	0.05	0.62	1.00 fructose biphosphatase 1 [Source:MGI Symbol;Acc:MGI:95492]
ENSMUSG000000027359	Sic27a2	-2.31	0.00	1.13	0.00	0.04	0.64	1.00 solute carrier family 27 (fatty acid transporter), member 2 [Source:MGI Symbol;Acc:MGI:1347099]
ENSMUSG000000038072	Galn11	-2.40	0.00	1.04	0.00	0.14	0.25	1.00 UDP-N-acetyl-alpha-D-galactosamine polypeptide N-acetylgalactosaminyltransferase 11 [Source:MGI Symbol;Acc:MGI:2444327]
ENSMUSG000000020072	Afp11b	-2.07	0.00	1.07	0.00	-0.11	0.33	1.00 phenazine biosynthesis-like protein domain containing 1 [Source:MGI Symbol;Acc:MGI:1915621]
ENSMUSG000000021207	Akr1c21	-1.76	0.00	0.80	0.00	-0.20	0.03	1.00 aldo-keto reductase family 1, member C21 [Source:MGI Symbol;Acc:MGI:1924587]
ENSMUSG000000031294	D630029K05Rrk	-2.25	0.00	1.34	0.00	0.02	0.84	1.00 RIKEN cDNA D630029K05 gene [Source:MGI Symbol;Acc:MGI:2143561]
ENSMUSG000000039438	Ttc3c	-2.04	0.00	1.14	0.00	0.24	0.02	1.00 tetraoctapeptide repeat domain 36 [Source:MGI Symbol;Acc:MGI:2384760]
ENSMUSG000000019459	Sic13a3	-2.08	0.00	0.97	0.00	-0.20	0.08	1.00 solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 [Source:MGI Symbol;Acc:MGI:2149635]
ENSMUSG000000004152	Sic7a13	-1.89	0.00	0.60	0.00	0.11	0.27	1.00 solute carrier family 7, cationic amino acid transporter, +/- system member 13 [Source:MGI Symbol;Acc:MGI:1921337]
ENSMUSG000000039290	Ih2f1	-1.88	0.00	0.50	0.00	0.17	0.07	1.00 isocitrate dehydrogenase 2 (NADP+) mitochondrial [Source:MGI Symbol;Acc:MGI:96414]
ENSMUSG000000020602	Sic5a8	-1.88	0.00	0.73	0.00	0.28	0.01	1.00 solute carrier family 5 (iodide transporter), member 8 [Source:MGI Symbol;Acc:MGI:2384916]
ENSMUSG000000058488	Kl	-1.43	0.00	0.68	0.00	0.01	0.95	1.00 klotho [Source:MGI Symbol;Acc:MGI:1101771]
ENSMUSG000000068205	Macrod2	-2.48	0.00	0.89	0.00	0.11	0.35	1.00 MACRO domain containing 2 [Source:MGI Symbol;Acc:MGI:1920149]
ENSMUSG000000038745	Nirp6	-2.24	0.00	1.22	0.00	-0.06	0.57	1.00 NLR family, pyrin domain containing 6 [Source:MGI Symbol;Acc:MGI:2141990]
ENSMUSG000000057880	Ahd4f1	-1.58	0.00	0.69	0.00	0.26	0.01	1.00 protein dehydrogenase, iron containing 1 [Source:MGI Symbol;Acc:MGI:1923437]
ENSMUSG000000027070	Lrp2	-1.96	0.00	0.98	0.00	-0.11	0.32	1.00 low density lipoprotein receptor-related protein 2 [Source:MGI Symbol;Acc:MGI:95794]
ENSMUSG000000057425	Ugr2b37	-2.13	0.00	0.93	0.00	0.33	0.00	0.78 UDP glucuronosyltransferase 2 family, polypeptide B37 [Source:MGI Symbol;Acc:MGI:2148239]
ENSMUSG000000072941	Sox3	-1.51	0.00	0.79	0.00	0.08	0.35	1.00 superoxide dismutase 3, extracellular [Source:MGI Symbol;Acc:MGI:103181]
ENSMUSG000000031517	Gpm6a	-2.59	0.00	1.24	0.00	0.26	0.03	1.00 glycoprotein m6a [Source:MGI Symbol;Acc:MGI:107671]
ENSMUSG000000037098	Rab11Tfp3	-1.35	0.00	0.71	0.00	-0.14	0.11	1.00 RAB11 family interacting protein 3 (class II) [Source:MGI Symbol;Acc:MGI:2444431]
ENSMUSG000000020072	Afp11b	-2.07	0.00	1.07	0.00	-0.11	0.33	1.00 phenazine biosynthesis-like protein domain containing 1 [Source:MGI Symbol;Acc:MGI:1915621]
ENSMUSG000000070348	Cnd1f1	-1.72	0.00	0.58	0.00	-0.44	0.00	0.03 cyclin D1 [Source:MGI Symbol;Acc:MGI:88313]
ENSMUSG000000023914	Mep1a	-0.91	0.00	0.23	0.00	-0.14	0.01	1.00 meprin 1 alpha [Source:MGI Symbol;Acc:MGI:96963]
ENSMUSG000000006342	Sus2	-1.77	0.00	0.65	0.00	-0.27	0.01	1.00 sushi domain containing 2 [Source:MGI Symbol;Acc:MGI:1918983]
ENSMUSG000000025937	Lactb2	-1.55	0.00	0.76	0.00	0.20	0.03	1.00 lactamase, beta 2 [Source:MGI Symbol;Acc:MGI:2442551]
ENSMUSG000000021312	Afp11b	-2.06	0.00	1.21	0.00	0.34	0.02	0.29 phosphoenolpyruvate carboxykinase 1, cytosolic [Source:MGI Symbol;Acc:MGI:97501]
ENSMUSG000000055737	Ghr	-2.00	0.00	1.22	0.00	-0.18	0.01	1.00 growth hormone receptor [Source:MGI Symbol;Acc:MGI:95708]
ENSMUSG000000028766	Alpl	-1.77	0.00	0.62	0.00	0.34	0.00	0.43 alkaline phosphatase, liver/bone/kidney [Source:MGI Symbol;Acc:MGI:87938]
ENSMUSG000000079262	Sico1a6	-1.93	0.00	0.74	0.00	0.03	0.77	1.00 solute carrier anion transporter family, member 1a6 [Source:MGI Symbol;Acc:MGI:1351906]
ENSMUSG000000005612	Cndp1	-1.32	0.00	1.22	0.00	-0.15	0.34	1.00 carnosine dipeptidase 1 (metallopeptidase M20 family) [Source:MGI Symbol;Acc:MGI:2451097]
ENSMUSG000000015568	Lpl	-1.95	0.00	0.40	0.00	0.16	0.24	1.00 lipoprotein lipase [Source:MGI Symbol;Acc:MGI:96820]
ENSMUSG000000049465	Hpr2	-1.67	0.00	0.63	0.00	0.23	0.13	1.00 alpha-1,3-galactosyltransferase 1 [Source:MGI Symbol;Acc:MGI:87913]
ENSMUSG000000054630	Ugr2b25	-2.25	0.00	1.00	0.00	0.50	0.00	0.14 UDP glucuronosyltransferase 2 family, polypeptide B5 [Source:MGI Symbol;Acc:MGI:98900]
ENSMUSG000000046598	Bdh1	-1.70	0.00	0.58	0.00	0.10	0.32	1.00 3-hydroxybutyrate dehydrogenase, type 1 [Source:MGI Symbol;Acc:MGI:1919161]
ENSMUSG000000061906	Ugr2b38	-2.33	0.00	1.03	0.00	0.42	0.00	0.73 UDP glucuronosyltransferase 2 family, polypeptide B38 [Source:MGI Symbol;Acc:MGI:2140794]
ENSMUSG000000029735	Tpk1	-2.99	0.00	1.02	0.00	0.09	0.56	1.00 thiamine pyrophosphokinase [Source:MGI Symbol;Acc:MGI:1352500]
ENSMUSG000000056487	Gm15824	-2.21	0.00	1.42	0.00	0.13	0.23	1.00 predicted gene 15824 [Source:MGI Symbol;Acc:MGI:3650152]
ENSMUSG000000037866	Asp1	-3.06	0.00	1.35	0.00	-0.04	0.82	1.00 asparaginase homolog (S. cerevisiae) [Source:MGI Symbol;Acc:MGI:2144822]
ENSMUSG000000025790	Sico3a1	-2.38	0.00	1.07	0.00	0.21	0.07	1.00 solute carrier anion transporter family, member 3a1 [Source:MGI Symbol;Acc:MGI:1351867]
ENSMUSG000000027332	Ivd	-1.37	0.00	0.49	0.00	-0.07	0.47	1.00 isovaleryl coenzyme A dehydrogenase [Source:MGI Symbol;Acc:MGI:1929242]
ENSMUSG000000029998	Acp3	-1.73	0.00	0.64	0.00	0.01	0.95	1.00 acyl-Coenzyme A oxidase 3, pristanoyl [Source:MGI Symbol;Acc:MGI:1933156]
ENSMUSG000000056487	Mel17a2	-1.13	0.00	0.77	0.00	0.07	0.44	1.00 methyltransferase like 7a2 [Source:MGI Symbol;Acc:MGI:3026615]
ENSMUSG000000037866	Ahd4f1	-1.58	0.00	0.55	0.00	0.26	0.59	1.00 aldolase dehydrogenase 4 family, member 4 [Source:MGI Symbol;Acc:MGI:2443883]
ENSMUSG000000059802	Syn3	-1.35	0.00	0.58	0.00	0.00	0.97	1.00 synapsin III [Source:MGI Symbol;Acc:MGI:1351334]
ENSMUSG000000052505	Cyp2e5	-1.49	0.00	0.56	0.00	-0.03	0.71	1.00 cytochrome P450, family 2, subfamily j, polypeptide 5 [Source:MGI Symbol;Acc:MGI:1270149]
ENSMUSG000000046082	Tmem174	-1.38	0.00	0.74	0.00	0.10	0.32	1.00 transmembrane protein 174 [Source:MGI Symbol;Acc:MGI:1915594]
ENSMUSG000000025792	Sic25a10	-1.46	0.00	1.00	0.00</			

ENSMUSG0000060961	Slc44a4	-1.56	0.00	0.00	1.12	0.00	0.00	0.10	0.27	1.00	solute carrier family 4 (anion exchanger), member 4 [Source:MGI Symbol;Acc:MGI:1927555]
ENSMUSG000004655	Agp1	-0.71	0.00	0.00	0.33	0.00	0.00	-0.13	0.08	1.00	aquaporin 1 [Source:MGI Symbol;Acc:MGI:103201]
ENSMUSG0000061959	Ces1e	-2.29	0.00	0.00	0.77	0.00	0.01	-0.14	0.37	1.00	carboxylesterase 1E [Source:MGI Symbol;Acc:MGI:95432]
ENSMUSG000000345	Hdh3a	-1.21	0.00	0.00	0.53	0.00	0.00	0.03	0.03	3.00	3-hydroxyisobutyrate 3-hydrogenase [Source:MGI Symbol;Acc:MGI:1889802]
ENSMUSG000002464	Cy6b	-1.06	0.00	0.00	0.28	0.00	0.00	0.00	1.00	1.00	cytochrome b-5 [Source:MGI Symbol;Acc:MGI:1926952]
ENSMUSG0000038967	Pdk2	-1.39	0.00	0.00	0.76	0.00	0.00	-0.09	0.42	1.00	pyruvate dehydrogenase kinase, isoenzyme 2 [Source:MGI Symbol;Acc:MGI:1343087]
ENSMUSG0000022261	Sdc2	-1.79	0.00	0.00	0.66	0.00	0.00	0.06	0.60	1.00	slycane2 [Source:MGI Symbol;Acc:MGI:1349165]
ENSMUSG0000020321	Mdh1	-0.79	0.00	0.00	0.29	0.00	0.00	0.08	0.23	1.00	malate dehydrogenase 1, NAD (soluble) [Source:MGI Symbol;Acc:MGI:97051]
ENSMUSG0000000774	Hdh3a	-1.24	0.00	0.00	0.53	0.00	0.00	0.03	0.03	3.00	3-hydroxyisobutyrate 3-hydrogenase [Source:MGI Symbol;Acc:MGI:1917914]
ENSMUSG0000022389	Tef	-1.25	0.00	0.00	0.77	0.00	0.00	0.19	0.12	1.00	thyrotroph embryonic factor [Source:MGI Symbol;Acc:MGI:98663]
ENSMUSG0000019889	Ptprk	-2.03	0.00	0.00	1.28	0.00	0.00	-0.17	0.22	1.00	protein tyrosine phosphatase, receptor type, K [Source:MGI Symbol;Acc:MGI:103310]
ENSMUSG0000033653	Vps8	-2.85	0.00	0.00	0.97	0.00	0.05	0.18	0.30	1.00	vacuolar protein sorting 8 homolog (S. cerevisiae) [Source:MGI Symbol;Acc:MGI:2146407]
ENSMUSG0000029456	Acad10	-1.58	0.00	0.00	0.59	0.00	0.00	-0.11	0.38	1.00	acyl-Coenzyme A dehydrogenase family, member 10 [Source:MGI Symbol;Acc:MGI:1919235]
ENSMUSG0000033592	Denn1f1a	-2.94	0.00	0.00	1.25	0.00	0.00	-0.15	0.39	1.00	DENND1-ADD domain containing 1A [Source:MGI Symbol;Acc:MGI:2442794]
ENSMUSG0000002840	Agps	-1.59	0.00	0.00	0.43	0.00	0.00	0.02	0.01	1.00	aconitase 1 [Source:MGI Symbol;Acc:MGI:87879]
ENSMUSG0000020310	Tmbim6	-0.78	0.00	0.00	0.29	0.00	0.00	-0.08	0.32	1.00	transmembrane BAX inhibitor motif containing 6 [Source:MGI Symbol;Acc:MGI:99682]
ENSMUSG0000041757	Plekha6	-1.28	0.00	0.00	0.53	0.00	0.00	-0.20	0.04	1.00	pleckstrin homology domain containing, family A member 6 [Source:MGI Symbol;Acc:MGI:2388662]
ENSMUSG0000003177	Herpud1	-1.36	0.00	0.00	0.98	0.00	0.00	0.10	0.43	1.00	homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1 [Source:MGI Symbol;Acc:MGI:1927406]
ENSMUSG0000008546	Gm15347	-2.26	0.00	0.00	0.80	0.00	0.00	0.35	0.02	1.00	predicted gene 15347 [Source:MGI Symbol;Acc:MGI:3705310]
ENSMUSG0000002410	Agps	-1.32	0.00	0.00	0.36	0.00	0.01	0.54	0.00	0.00	alkylglycerone phosphate synthase [Source:MGI Symbol;Acc:MGI:2443065]
ENSMUSG0000006806	Cyp29	-1.59	0.00	0.00	0.42	0.00	0.02	-0.52	0.00	0.15	cytochrome P450, family 2, subfamily d, polypeptide 9 [Source:MGI Symbol;Acc:MGI:88606]
ENSMUSG0000031725	Ces1f	-1.19	0.00	0.00	0.50	0.00	0.00	0.08	0.39	1.00	carboxylesterase 1F [Source:MGI Symbol;Acc:MGI:2142687]
ENSMUSG0000002852	Ak4	-1.93	0.00	0.00	0.91	0.00	0.00	0.52	0.00	0.56	adenylate kinase 4 [Source:MGI Symbol;Acc:MGI:87979]
ENSMUSG0000031881	Cdh16	-0.95	0.00	0.00	0.35	0.00	0.00	-0.10	0.19	1.00	cadherin 16 [Source:MGI Symbol;Acc:MGI:106671]
ENSMUSG0000002619	Pecr	-1.44	0.00	0.00	0.69	0.00	0.00	-0.04	0.76	1.00	peroxisomal trans-2-enoyl-CoA reductase [Source:MGI Symbol;Acc:MGI:2148199]
ENSMUSG0000003676	Slc13a8	-1.57	0.00	0.00	0.86	0.00	0.00	-0.05	0.00	1.00	solute carrier family 22 (organic anion transporter), member 8 [Source:MGI Symbol;Acc:MGI:1336187]
ENSMUSG0000002745	Acas1	-1.55	0.00	0.00	0.58	0.00	0.00	-0.11	0.40	1.00	acyl-CoA synthetase short-chain family member 1 [Source:MGI Symbol;Acc:MGI:1915988]
ENSMUSG0000000423	Slc5a5	-1.62	0.00	0.00	0.78	0.00	0.00	-0.25	0.04	1.00	solute carrier family 5 (sodium/glucose cotransporter), member 10 [Source:MGI Symbol;Acc:MGI:1926809]
ENSMUSG0000006439	m1-Te	-1.25	0.00	0.00	0.25	0.00	0.02	0.00	1.00	1.00	mitochondrially encoded tRNA glutamic acid [Source:MGI Symbol;Acc:MGI:102488]
ENSMUSG0000009439	RP23-33415.4	-1.21	0.00	0.00	0.52	0.00	0.00	-0.04	0.73	1.00	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:J9UJZ1]
ENSMUSG0000000707	Ahp1	-1.34	0.00	0.00	0.49	0.00	0.00	0.04	0.00	0.24	alcohol dehydrogenase 1 (class I) [Source:MGI Symbol;Acc:MGI:87921]
ENSMUSG0000037678	Chchd3	-1.73	0.00	0.00	0.81	0.00	0.00	0.08	0.51	1.00	collet-col hemolymph protein domain containing 3 [Source:MGI Symbol;Acc:MGI:1913325]
ENSMUSG0000008967	Agx2	-1.64	0.00	0.00	0.59	0.00	0.01	-0.37	0.00	0.90	alanine-glyoxylate aminotransferase 2 [Source:MGI Symbol;Acc:MGI:2146052]
ENSMUSG00000010122	Slc47a1	-0.88	0.00	0.00	0.53	0.00	0.00	0.01	0.96	1.00	solute carrier family 47, member 1 [Source:MGI Symbol;Acc:MGI:1914723]
ENSMUSG0000002392	Mut	-1.14	0.00	0.00	0.42	0.00	0.00	-0.11	0.26	1.00	methylmalonyl-Coenzyme A mutase [Source:MGI Symbol;Acc:MGI:97239]
ENSMUSG0000007169	Sru29	-2.91	0.00	0.00	1.60	0.00	0.00	-0.22	0.23	1.00	sorting nexin 29 [Source:MGI Symbol;Acc:MGI:1921728]
ENSMUSG0000003912	Igpf1	-1.11	0.00	0.00	0.62	0.00	0.01	-0.04	0.20	1.00	inositol 1,4,5-trisphosphate receptor 1 [Source:MGI Symbol;Acc:MGI:96623]
ENSMUSG0000002590	Lyp1a1	-1.12	0.00	0.00	0.36	0.00	0.00	0.33	0.00	0.14	lysophospholipase 1 [Source:MGI Symbol;Acc:MGI:1344588]
ENSMUSG0000002691	Pkp4	-1.16	0.00	0.00	0.59	0.00	0.00	0.11	0.24	1.00	plakophilin 4 [Source:MGI Symbol;Acc:MGI:109281]
ENSMUSG0000008521	0610005C13Rk	-1.69	0.00	0.00	1.20	0.00	0.00	0.03	0.81	1.00	RIKEN cDNA 0610005C13 gene [Source:MGI Symbol;Acc:MGI:1918911]
ENSMUSG0000003579	Xyfb	-1.00	0.00	0.00	0.49	0.00	0.00	-0.09	0.32	1.00	xylulokinase homolog (H. influenzae) [Source:MGI Symbol;Acc:MGI:2142985]
ENSMUSG0000006456	m1-Nhp6	-0.70	0.00	0.00	0.58	0.00	0.00	0.16	0.00	1.00	mitochondrial NADH dehydrogenase 14 [Source:MGI Symbol;Acc:MGI:102495]
ENSMUSG0000036083	Slc17a3	-1.23	0.00	0.00	0.37	0.00	0.00	0.26	0.02	1.00	solute carrier family 17 (sodium phosphate), member 3 [Source:MGI Symbol;Acc:MGI:2382916]
ENSMUSG0000002634	Acmsd	-1.78	0.00	0.00	1.09	0.00	0.00	-0.03	0.88	1.00	amino carboxymuconate semialdehyde decarboxylase [Source:MGI Symbol;Acc:MGI:2386323]
ENSMUSG0000006298	Acadm	-1.12	0.00	0.00	0.53	0.00	0.00	0.25	0.01	1.00	acyl-Coenzyme A dehydrogenase, medium chain [Source:MGI Symbol;Acc:MGI:87867]
ENSMUSG0000005435	Acfa	-1.17	0.00	0.00	0.72	0.00	0.00	-0.10	0.33	1.00	avian musculoaponeurotic fibrosarcoma (v-maf) AS42 oncogene homolog [Source:MGI Symbol;Acc:MGI:96909]
ENSMUSG0000000154	Slc22a18	-0.87	0.00	0.00	0.42	0.00	0.00	-0.12	0.16	1.00	solute carrier family 22 (organic cation transporter), member 18 [Source:MGI Symbol;Acc:MGI:1336884]
ENSMUSG0000003946	Ptdc1	-1.24	0.00	0.00	0.58	0.00	0.00	0.16	0.00	1.00	ATPase, H ⁺ transporting, lysosomal D0 subunit A4 [Source:MGI Symbol;Acc:MGI:2153480]
ENSMUSG0000002816	Bdh2	-1.20	0.00	0.00	0.42	0.00	0.00	-0.05	0.65	1.00	3-hydroxybutyrate dehydrogenase, type 2 [Source:MGI Symbol;Acc:MGI:1917022]
ENSMUSG0000002103	G3t2	-1.11	0.00	0.00	0.71	0.00	0.00	0.03	0.75	1.00	glutathione transferase zeta 1 (maleylacetate isomerase) [Source:MGI Symbol;Acc:MGI:1341859]
ENSMUSG00000001095	Slc13a2	-2.18	0.00	0.00	1.54	0.00	0.00	0.07	0.69	1.00	solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 [Source:MGI Symbol;Acc:MGI:1276558]
ENSMUSG0000000151	Slc25a13	-1.75	0.00	0.00	0.94	0.00	0.00	0.00	1.00	1.00	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 13 [Source:MGI Symbol;Acc:MGI:1354772]
ENSMUSG0000000032	Hsp68	-1.00	0.00	0.00	0.58	0.00	0.00	0.16	0.03	1.00	chaperone phosphoforase 1 [Source:MGI Symbol;Acc:MGI:2384841]
ENSMUSG0000008470	Gm15350	-2.24	0.00	0.00	0.85	0.00	0.03	0.43	0.01	1.00	predicted gene 15350 [Source:MGI Symbol;Acc:MGI:3705181]
ENSMUSG0000003298	Pdxk1	-1.19	0.00	0.00	0.43	0.00	0.00	0.16	0.13	1.00	PDZ domain containing 1 [Source:MGI Symbol;Acc:MGI:1928901]
ENSMUSG0000002819	Ddah1	-1.12	0.00	0.00	0.84	0.00	0.00	0.10	0.31	1.00	dimethylarginine dimethylaminohydrolase 1 [Source:MGI Symbol;Acc:MGI:1916469]
ENSMUSG0000002247	Aco2	-0.85	0.00	0.00	0.44	0.00	0.00	0.14	0.05	1.00	aconitase 2, mitochondrial [Source:MGI Symbol;Acc:MGI:87880]
ENSMUSG0000003627	Lrrk2	-1.34	0.00	0.00	0.95	0.00	0.00	0.17	0.11	1.00	leucine-rich repeat kinase 2 [Source:MGI Symbol;Acc:MGI:1913975]
ENSMUSG0000000380	Pkd2	-1.00	0.00	0.00	0.62	0.00	0.01	-0.04	0.00	1.00	cytochrome kidney disease 2 [Source:MGI Symbol;Acc:MGI:1099816]
ENSMUSG0000002916	Khk	-1.09	0.00	0.00	0.68	0.00	0.00	0.00	0.59	1.00	ketohekoxinase [Source:MGI Symbol;Acc:MGI:1096353]
ENSMUSG0000009012	Ugt1a7c	-1.03	0.00	0.00	0.39	0.00	0.00	-0.20	0.07	1.00	UDP glucuronosyltransferase 1 family, polypeptide A7C [Source:MGI Symbol;Acc:MGI:3032636]
ENSMUSG0000002042	Tcn2	-0.96	0.00	0.00	0.31	0.00	0.00	-0.15	0.11	1.00	transcobalamin 2 [Source:MGI Symbol;Acc:MGI:88534]
ENSMUSG0000005807	Melit7a3	-1.34	0.00	0.00	0.68	0.00	0.00	-0.21	0.08	1.00	methyltransferase like 7A3 [Source:MGI Symbol;Acc:MGI:3710670]
ENSMUSG0000002268	Egr8	-1.00	0.00	0.00	0.52	0.00	0.00	0.08	0.47	1.00	cytochrome A hydralin short chain, 1, mitochondrial [Source:MGI Symbol;Acc:MGI:2136460]
ENSMUSG0000002130	Trk13b	-1.22	0.00	0.00	0.69	0.00	0.01	-0.04	0.72	1.00	G-protein-coupled receptor 137B [Source:MGI Symbol;Acc:MGI:1891463]
ENSMUSG0000009379	AB099516	-1.11	0.00	0.00	0.39	0.00	0.01	-0.05	0.62	1.00	cDNA sequence AB099516 [Source:MGI Symbol;Acc:MGI:3845761]
ENSMUSG0000008678	Iso2a2	-1.61	0.00	0.00	0.60	0.00	0.01	-0.34	0.01	1.00	isochorismatase domain containing 2a [Source:MGI Symbol;Acc:MGI:3609243]
ENSMUSG00000003526	Prodh	-1.20	0.00	0.00	0.73	0.00	0.00	-0.20	0.09	1.00	proline dehydrogenase [Source:MGI Symbol;Acc:MGI:97770]
ENSMUSG0000003910	March6	-1.14	0.00	0.00	0.51	0.00	0.00	-0.12	0.24	1.00	membrane-associated ring finger (C3HC1) 6 [Source:MGI Symbol;Acc:MGI:2442773]
ENSMUSG0000000001	Agp127	-0.61	0.00	0.00	0.69	0.00	0.00	0.04	0.11	1.00	transmembrane protein 127 [Source:MGI Symbol;Acc:MGI:1925233]
ENSMUSG0000003826	Bph1	-1.00	0.00	0.00	0.61	0.00	0.00	-0.08	0.40	1.00	biphenyl hydrolase-like (serine hydrolase, breast epithelial mucin-associated antigen) [Source:MGI Symbol;Acc:MGI:1915271]
ENSMUSG0000009758	AC136976.2	-2.05	0.00	0.00	0.78	0.00	0.03	-0.09	0.59	1.00	0
ENSMUSG0000002649	Adck3	-1.47	0.00	0.00	0.83	0.00	0.00	-0.28	0.04	1.00	aarF domain containing kinase 3 [Source:MGI Symbol;Acc:MGI:1914676]
ENSMUSG0000002910	Lrrap1	-0.97	0.00	0.00	0.42	0.00	0.00	0.08	0.39	1.00	low density lipoprotein receptor-related protein associated protein 1 [Source:MGI Symbol;Acc:MGI:96829]
ENSMUSG0000000015	Tmem25	-1.65	0.00	0.00	0.52	0.00	0.00	0.02	0.10	1.00	transmembrane protein 25 [Source:MGI Symbol;Acc:MGI:1918937]
ENSMUSG0000006607	Cypl412a	-2.00	0.00	0.00	0.66	0.00	0.00	0.20	0.10	1.00	cytochrome P450, family 4, subfamily A, polypeptide 12a [Source:MGI Symbol;Acc:MGI:88612]
ENSMUSG0000000121	Agpat3	-1.02	0.00	0.00	0.54	0.00	0.00	0.01	0.89	1.00	1-acylglycerol-3-phosphate O-acyltransferase 3 [Source:MGI Symbol;Acc:MGI:1336186]
ENSMUSG0000002492	Smarca2	-1.32	0.00	0.00	0.54	0.00	0.00	0.25	0.05	1.00	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Source:MGI Symbol;Acc:MGI:99603]
ENSMUSG0000004447	Asccl1	-2.01	0.00	0.00	1.13	0.00	0.00	0.05	0.79	1.00	activating signal co-receptor 1 complex subunit 1 [Source:MGI Symbol;Acc:MGI:1916340]
ENSMUSG0000001743	Pipox	-0.94	0.00	0.00	0.51	0.00	0.00	-0.04	0.71	1.00	peptic acid oxidase [Source:MGI Symbol;Acc:MGI:1197006]
ENSMUSG0000000012	Tmem158	-1.24	0.00	0.00	0.69	0.00	0.00	0.04	0.45	1.00	transmembrane protein 158 [Source:MGI Symbol;Acc:MGI:2384572]
ENSMUSG0000002809	Cp98	-1.14	0.00	0.00	0.43	0.00	0.00	0.12	0.25	1.00	G-protein-coupled receptor 89 [Source:MGI Symbol;Acc:MGI:1914799]
ENSMUSG0000001786	Sgk2	-1.31	0.00	0.00	0.41	0.00	0.03	-0.05	0.67	1.00	serum/glucocorticoid regulated kinase 2 [Source:MGI Symbol;Acc:MGI:1351318]
ENSMUSG0000003752	Aldh8a1	-1.12	0.00	0.00	0.71	0.00	0.00	0.06	0.55	1.00	aldehyde dehydrogenase 8 family, member A1 [Source:MGI Symbol;Acc:MGI:2653900]
ENSMUSG0000004248	Mga3	-1.57	0.00	0.00	0.82	0.00	0.00	0.05	0.73	1.00	mann

ENSMUSG0000020988	L2hgh	-0.89	0.00	0.00	0.43	0.00	0.00	0.04	0.70	1.00	L-2-hydroxyglutarate dehydrogenase [Source:MGI Symbol:Acc:MGI:2384968]
ENSMUSG0000022066	Etpd4	-1.14	0.00	0.00	0.41	0.00	0.04	0.16	0.18	1.00	ectonucleotide triphosphatase diphosphorylase 4 [Source:MGI Symbol:Acc:MGI:1914714]
ENSMUSG0000022756	Pfnk1	-0.84	0.00	0.00	0.55	0.00	0.00	0.07	0.46	1.00	PTEN induced putative kinase 1 [Source:MGI Symbol:Acc:MGI:1916193]
ENSMUSG0000022756	Pfnk1	-1.11	0.00	0.00	0.55	0.00	0.00	0.07	0.46	1.00	PTEN induced putative kinase 1 [Source:MGI Symbol:Acc:MGI:1916193]
ENSMUSG0000022235	Cmb1	-1.11	0.00	0.00	0.72	0.00	0.00	-0.06	0.61	1.00	carboxymethylneurite-5-like (Pseudomonas) [Source:MGI Symbol:Acc:MGI:1916824]
ENSMUSG0000021509	Sc25a48	-2.04	0.00	0.00	1.10	0.00	0.00	0.02	0.96	1.00	solute carrier family 25, member 48 [Source:MGI Symbol:Acc:MGI:2145373]
ENSMUSG0000036303	Kk1	-0.91	0.00	0.00	0.48	0.00	0.00	0.07	0.46	1.00	kallikrein 1 [Source:MGI Symbol:Acc:MGI:102850]
ENSMUSG0000021751	Ac02	-1.01	0.00	0.00	0.74	0.00	0.00	-0.09	0.41	1.00	acyl-Coenzyme A oxidase 2, branched chain [Source:MGI Symbol:Acc:MGI:1934852]
ENSMUSG0000022756	Pfnk1	-1.35	0.00	0.00	0.43	0.00	0.00	0.12	0.00	1.00	phosphatase 11 [Source:MGI Symbol:Acc:MGI:195739]
ENSMUSG0000025968	Ndufs1	-0.87	0.00	0.00	0.43	0.00	0.00	0.14	0.11	1.00	NADH dehydrogenase (ubiquinone) F6-S protein 1 [Source:MGI Symbol:Acc:MGI:2443241]
ENSMUSG0000021238	Aldh6a1	-0.76	0.00	0.00	0.44	0.00	0.00	0.00	0.98	1.00	aldehyde dehydrogenase family 6, subfamily A1 [Source:MGI Symbol:Acc:MGI:1915077]
ENSMUSG0000027597	Ahcy	-0.91	0.00	0.00	0.45	0.00	0.00	0.11	0.28	1.00	S-adenosylhomocysteine hydrolase [Source:MGI Symbol:Acc:MGI:87968]
ENSMUSG0000031303	Map3k15	-0.98	0.00	0.00	0.52	0.00	0.00	0.09	0.38	1.00	mitogen-activated protein kinase kinase kinase 15 [Source:MGI Symbol:Acc:MGI:2448588]
ENSMUSG0000030498	Gas2	-1.18	0.00	0.00	0.73	0.00	0.00	0.22	0.09	1.00	growth arrest specific 2 [Source:MGI Symbol:Acc:MGI:95657]
ENSMUSG0000030498	Gas2	-1.14	0.00	0.00	0.75	0.00	0.00	0.19	0.13	1.00	cytochrome P450, family 4, subfamily A, polypeptide 12B [Source:MGI Symbol:Acc:MGI:3611747]
ENSMUSG0000068874	Seletp1	-0.90	0.00	0.00	0.56	0.00	0.00	0.03	0.80	1.00	selenium binding protein 1 [Source:MGI Symbol:Acc:MGI:96825]
ENSMUSG0000045226	Tprkb	-1.11	0.00	0.00	0.39	0.00	0.05	-0.17	0.19	1.00	Tp53k1 binding protein [Source:MGI Symbol:Acc:MGI:1917036]
ENSMUSG0000040430	Pitpnc1	-1.67	0.00	0.00	0.93	0.00	0.00	-0.03	0.85	1.00	phosphatidylinositol transfer protein, cytoplasmic 1 [Source:MGI Symbol:Acc:MGI:1919045]
ENSMUSG0000038775	Vil1	-1.55	0.00	0.00	0.71	0.00	0.01	-0.07	0.72	1.00	villin-like [Source:MGI Symbol:Acc:MGI:1201781]
ENSMUSG0000034360	mt-Nd3	-0.76	0.00	0.00	0.24	0.00	0.00	0.03	0.78	1.00	mitochondrially encoded NADH dehydrogenase 3 [Source:MGI Symbol:Acc:MGI:102499]
ENSMUSG0000026687	Aldh1a1	-0.92	0.00	0.00	0.49	0.00	0.00	0.04	0.73	1.00	aldehyde dehydrogenase 9, subfamily A1 [Source:MGI Symbol:Acc:MGI:1861622]
ENSMUSG00000089675	Ugt1a5	-0.89	0.00	0.00	0.35	0.00	0.01	-0.19	0.08	1.00	UDP glucuronosyltransferase 1 family, polypeptide A8 [Source:MGI Symbol:Acc:MGI:3576090]
ENSMUSG00000089675	Ugt1a5	-0.89	0.00	0.00	0.35	0.00	0.01	-0.19	0.08	1.00	UDP glucuronosyltransferase 1 family, polypeptide A5 [Source:MGI Symbol:Acc:MGI:3032634]
ENSMUSG00000089675	Ugt1a1	-0.88	0.00	0.00	0.35	0.00	0.01	-0.19	0.08	1.00	UDP glucuronosyltransferase 1 family, polypeptide A1 [Source:MGI Symbol:Acc:MGI:98888]
ENSMUSG0000009175	Ugt1a9	-0.89	0.00	0.00	0.35	0.00	0.01	-0.19	0.08	1.00	UDP glucuronosyltransferase 1 family, polypeptide A9 [Source:MGI Symbol:Acc:MGI:3576092]
ENSMUSG0000009175	Ugt1a9	-1.82	0.00	0.00	0.35	0.00	0.01	-0.19	0.08	1.00	UDP glucuronosyltransferase 1 family, polypeptide A9 [Source:MGI Symbol:Acc:MGI:3576092]
ENSMUSG0000009145	Ugt1fab	-0.88	0.00	0.00	0.35	0.00	0.01	-0.19	0.08	1.00	UDP glucuronosyltransferase 1 family, polypeptide A6B [Source:MGI Symbol:Acc:MGI:3580629]
ENSMUSG00000040351	Ankik1	-1.16	0.00	0.00	0.74	0.00	0.00	0.18	0.16	1.00	ankyrin repeat and IBR domain containing 1 [Source:MGI Symbol:Acc:MGI:1918047]
ENSMUSG0000002949	Pmp2	-1.65	0.00	0.00	0.77	0.00	0.02	0.01	0.96	1.00	peroxisomal membrane protein 2 [Source:MGI Symbol:Acc:MGI:107487]
ENSMUSG0000009175	Ugt1a2	-0.86	0.00	0.00	0.34	0.00	0.01	-0.19	0.08	1.00	UDP glucuronosyltransferase 1 family, polypeptide A2 [Source:MGI Symbol:Acc:MGI:3576049]
ENSMUSG0000007437	Prox4737	-0.93	0.00	0.00	0.46	0.00	0.00	0.09	0.45	1.00	predicted gene 4737 [Source:MGI Symbol:Acc:MGI:364347]
ENSMUSG0000037703	Prox4737	-0.87	0.00	0.00	0.47	0.00	0.00	-0.15	0.16	1.00	Prox4737 protein [Source:MGI Symbol:Acc:MGI:265976]
ENSMUSG0000031842	Pde4c	-0.94	0.00	0.00	0.67	0.00	0.00	0.13	0.23	1.00	phosphodiesterase 4C, cAMP specific [Source:MGI Symbol:Acc:MGI:99556]
ENSMUSG0000021779	Thrb	-2.58	0.00	0.00	1.62	0.00	0.00	0.13	0.54	1.00	thyroid hormone receptor beta [Source:MGI Symbol:Acc:MGI:98743]
ENSMUSG0000040111	Gramt1b	-0.97	0.00	0.00	0.83	0.00	0.00	-0.09	0.35	1.00	GRAM domain containing 1B [Source:MGI Symbol:Acc:MGI:1925037]
ENSMUSG0000006457	mt-ATP6	-0.58	0.00	0.00	0.21	0.00	0.00	0.19	0.00	1.00	mitochondrially encoded ATP synthase 6 [Source:MGI Symbol:Acc:MGI:99927]
ENSMUSG00000030498	DnaJ1	-1.20	0.00	0.00	0.59	0.00	0.01	0.23	0.18	1.00	Nucleotide exchange factor 1 [Source:MGI Symbol:Acc:MGI:105386]
ENSMUSG00000019996	Mtap7	-1.15	0.00	0.00	0.51	0.00	0.00	0.09	0.50	1.00	microtubule-associated protein 7 [Source:MGI Symbol:Acc:MGI:1323238]
ENSMUSG0000022425	Enpp2	-1.11	0.00	0.00	0.89	0.00	0.00	0.21	0.04	1.00	ectonucleotide pyrophosphatase/phosphodiesterase 2 [Source:MGI Symbol:Acc:MGI:1321390]
ENSMUSG00000068877	Seletp2	-0.99	0.00	0.00	0.59	0.00	0.00	0.06	0.64	1.00	selenium binding protein 2 [Source:MGI Symbol:Acc:MGI:104859]
ENSMUSG00000030160	Tmem52b	-1.07	0.00	0.00	0.54	0.00	0.00	0.15	0.25	1.00	transmembrane protein 52B [Source:MGI Symbol:Acc:MGI:2442838]
ENSMUSG0000002489	Blmp1	-0.69	0.00	0.00	0.83	0.00	0.01	0.00	0.45	1.00	brachyury like protein 1 [Source:MGI Symbol:Acc:MGI:104861]
ENSMUSG00000028024	Enpp1	-1.05	0.00	0.00	0.57	0.00	0.00	0.14	0.25	1.00	glutaryl aminopeptidase [Source:MGI Symbol:Acc:MGI:106645]
ENSMUSG00000054545	Ugt1a6a	-0.85	0.00	0.00	0.33	0.00	0.01	-0.19	0.08	1.00	UDP glucuronosyltransferase 1 family, polypeptide A6A [Source:MGI Symbol:Acc:MGI:2137698]
ENSMUSG00000032854	Ugt8a	-1.13	0.00	0.00	0.58	0.00	0.00	0.37	0.02	1.00	UDP galactosyltransferase 8A [Source:MGI Symbol:Acc:MGI:109522]
ENSMUSG00000064354	mt-Cox2	-0.41	0.00	0.00	0.14	0.00	0.01	0.17	0.00	1.00	mitochondrially encoded cytochrome c oxidase II [Source:MGI Symbol:Acc:MGI:102503]
ENSMUSG00000053239	DnaJ19b1e	-1.03	0.00	0.00	0.44	0.00	0.01	-0.03	0.80	1.00	DNA segment, Chr 10, Johns Hopkins University 81 expressed [Source:MGI Symbol:Acc:MGI:1351861]
ENSMUSG00000026576	Ugt1a1	-0.70	0.00	0.00	0.35	0.00	0.00	0.19	0.00	1.00	ATPase, Na+/K+ transporting, beta 1 polypeptide [Source:MGI Symbol:Acc:MGI:98108]
ENSMUSG00000064345	mt-Nd2	-0.45	0.00	0.00	0.21	0.00	0.00	0.22	0.00	1.00	mitochondrially encoded NADH dehydrogenase 2 [Source:MGI Symbol:Acc:MGI:102500]
ENSMUSG00000059412	Fxyd2	-0.80	0.00	0.00	0.29	0.00	0.00	0.05	0.59	1.00	FXYD domain-containing ion transport regulator 2 [Source:MGI Symbol:Acc:MGI:1195260]
ENSMUSG00000067158	Col4a4	-1.07	0.00	0.00	0.74	0.00	0.00	0.06	0.66	1.00	collagen, type IV, alpha 4 [Source:MGI Symbol:Acc:MGI:104687]
ENSMUSG00000017718	Almid	-1.22	0.00	0.00	0.80	0.00	0.00	0.13	0.34	1.00	allylformamide [Source:MGI Symbol:Acc:MGI:2448704]
ENSMUSG0000007437	D32041H03Rik	-0.94	0.00	0.00	0.45	0.00	0.00	-0.22	0.06	1.00	Riken cDNA D32041H03 gene [Source:MGI Symbol:Acc:MGI:3603827]
ENSMUSG0000024889	Papp2	-0.74	0.00	0.00	0.62	0.00	0.00	-0.12	0.25	1.00	3'-phosphoadenosine 5'-phosphosulfate synthase 2 [Source:MGI Symbol:Acc:MGI:1330223]
ENSMUSG00000028603	Scp2	-0.74	0.00	0.00	0.41	0.00	0.00	0.01	0.86	1.00	sterol carrier protein 2, liver [Source:MGI Symbol:Acc:MGI:98254]
ENSMUSG0000017950	Hnf4a	-1.04	0.00	0.00	0.81	0.00	0.00	0.07	0.54	1.00	hepatic nuclear factor 4, alpha [Source:MGI Symbol:Acc:MGI:109128]
ENSMUSG00000032418	Me1	-0.95	0.00	0.00	0.47	0.00	0.00	0.19	0.10	1.00	malic enzyme 1, NAD(P)+-dependent, cytosolic [Source:MGI Symbol:Acc:MGI:97043]
ENSMUSG00000026864	Phyh	-0.79	0.00	0.00	0.29	0.00	0.00	0.05	0.65	1.00	phytyl-CoA hydroxylase [Source:MGI Symbol:Acc:MGI:891978]
ENSMUSG0000002489	Ach2	-1.21	0.00	0.00	0.53	0.00	0.01	0.23	0.19	1.00	acylglutathione S-transferase 2 [Source:MGI Symbol:Acc:MGI:1859310]
ENSMUSG00000018339	Gp3k	-0.66	0.00	0.00	0.37	0.00	0.00	-0.08	0.37	1.00	glutathione peroxidase 3 [Source:MGI Symbol:Acc:MGI:105102]
ENSMUSG00000028571	Cyp2j3	-1.25	0.00	0.00	1.06	0.00	0.00	0.28	0.04	1.00	cytochrome P450, family 2, subfamily J, polypeptide 13 [Source:MGI Symbol:Acc:MGI:1356197]
ENSMUSG00000037348	Pspr7	-1.20	0.00	0.00	0.58	0.00	0.01	-0.05	0.71	1.00	progesterin and adipop Q receptor family member VII [Source:MGI Symbol:Acc:MGI:1919154]
ENSMUSG0000027187	Cal	-0.64	0.00	0.00	0.26	0.00	0.00	0.05	0.56	1.00	calataase [Source:MGI Symbol:Acc:MGI:88271]
ENSMUSG0000000476	Mert1a	-0.97	0.00	0.00	0.66	0.00	0.00	0.03	0.81	1.00	mannosidase 1, alpha [Source:MGI Symbol:Acc:MGI:104677]
ENSMUSG0000002189	Osbp8	-0.86	0.00	0.00	0.50	0.00	0.00	0.12	0.31	1.00	oxysterol binding protein 8 [Source:MGI Symbol:Acc:MGI:2443807]
ENSMUSG00000048058	Ldraf3	-0.81	0.00	0.00	1.82	0.00	0.00	0.17	0.47	1.00	low density lipoprotein receptor class A domain containing 3 [Source:MGI Symbol:Acc:MGI:2138856]
ENSMUSG00000025781	Atp5c1	-0.67	0.00	0.00	0.40	0.00	0.00	0.13	0.13	1.00	ATP synthase, H+ transporting, mitochondrial F1 complex, gamma polypeptide 1 [Source:MGI Symbol:Acc:MGI:1261437]
ENSMUSG00000025393	Atp5b	-0.49	0.00	0.00	0.28	0.00	0.00	0.08	0.17	1.00	ATP synthase, H+ transporting mitochondrial F1 complex, beta subunit [Source:MGI Symbol:Acc:MGI:107801]
ENSMUSG00000034612	Chst11	-1.41	0.00	0.00	1.38	0.00	0.00	0.29	0.05	1.00	carbohydrate sulfotransferase 11 [Source:MGI Symbol:Acc:MGI:1927166]
ENSMUSG00000026794	Hnf1b	-1.01	0.00	0.00	0.81	0.00	0.01	0.19	0.47	1.00	ATPase, Na+/K+ transporting, beta 1 polypeptide [Source:MGI Symbol:Acc:MGI:1914135]
ENSMUSG00000020679	Hnf1b	-1.38	0.00	0.00	0.81	0.00	0.00	-0.28	0.13	1.00	HNF1 homeobox B [Source:MGI Symbol:Acc:MGI:98505]
ENSMUSG000000017756	Slc12a7	-0.84	0.00	0.00	0.45	0.00	0.00	-0.04	0.70	1.00	solute carrier family 12, member 7 [Source:MGI Symbol:Acc:MGI:1342283]
ENSMUSG00000027984	Hadh	-0.78	0.00	0.00	0.51	0.00	0.00	0.04	0.70	1.00	hydroxyacyl-Coenzyme A dehydrogenase [Source:MGI Symbol:Acc:MGI:96009]
ENSMUSG00000043719	Col6a6	-1.83	0.00	0.00	1.45	0.00	0.00	-0.02	0.95	1.00	collagen, type VI, alpha 6 [Source:MGI Symbol:Acc:MGI:2444259]
ENSMUSG00000024519	Sc22a6	-0.98	0.00	0.00	0.91	0.00	0.00	0.06	0.56	1.00	solute carrier family 22 (organic anion transporter), member 6 [Source:MGI Symbol:Acc:MGI:892001]
ENSMUSG00000024386	Bcl6	-0.96	0.00	0.00	0.50	0.00	0.00	-0.12	0.31	1.00	protein C [Source:MGI Symbol:Acc:MGI:977711]
ENSMUSG00000022508	Bcl6	-1.41	0.00	0.00	0.62	0.00	0.02	-0.40	0.37	1.00	B cell leukemia/lymphoma 6 [Source:MGI Symbol:Acc:M

ENSMUSG00000047409 Ctdspl -1.12 0.00 0.00 0.77 0.00 0.00 -0.08 0.61 1.00 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase-like [Source:MGI Symbol:Acc:MG1:1916524]

ENSMUSG00000036879 Phkb -1.33 0.00 0.00 0.66 0.00 0.03 0.06 0.73 1.00 phosphorylase kinase beta [Source:MGI Symbol:Acc:MG1:97578]

ENSMUSG00000047638 Nr1h4 -0.98 0.00 0.00 0.46 0.00 0.02 0.29 0.10 1.00 nuclear receptor subfamily 1, group H, member 4 [Source:MGI Symbol:Acc:MG1:1352464]

ENSMUSG00000002533 Rps3 -1.04 0.00 0.00 0.58 0.00 0.03 0.03 0.83 1.00 nucleosomal core particle protein 3 [Source:MGI Symbol:Acc:MG1:1106542]

ENSMUSG00000022219 Cideb -0.78 0.00 0.00 0.34 0.00 0.02 0.03 0.83 1.00 cell death-inducing DNA fragmentation factor, alpha subunit-like effector B [Source:MGI Symbol:Acc:MG1:1270844]

ENSMUSG00000003318 Gstt2 -0.76 0.00 0.00 0.38 0.00 0.00 -0.20 0.13 1.00 glutathione S-transferase, theta 2 [Source:MGI Symbol:Acc:MG1:106188]

ENSMUSG000000093485 Gm20708 -1.15 0.00 0.00 0.76 0.00 0.00 0.14 0.37 1.00 predicted gene 20708 [Source:MGI Symbol:Acc:MG1:5313155]

ENSMUSG00000020219 Ntn4 -1.36 0.00 0.00 0.84 0.00 0.00 0.14 0.49 1.00 nectin 4 [Source:MGI Symbol:Acc:MG1:1889798]

ENSMUSG00000004856 Rpl30 -0.72 0.00 0.00 0.79 0.00 0.04 0.03 0.00 1.00 3' (5'-cap) guanine nucleotidyl transferase 3 [Source:MGI Symbol:Acc:MG1:2135608]

ENSMUSG00000029593 Pknox -1.05 0.00 0.00 0.54 0.00 0.02 0.03 0.84 1.00 protein kinase C, zeta [Source:MGI Symbol:Acc:MG1:97602]

ENSMUSG000000023915 Tnfrsf21 -0.84 0.00 0.00 0.62 0.00 0.00 -0.05 0.77 1.00 tumor necrosis factor receptor superfamily, member 21 [Source:MGI Symbol:Acc:MG1:2151075]

ENSMUSG00000025731 0610011F06Rik -0.79 0.00 0.00 0.38 0.00 0.01 -0.04 0.74 1.00 RIKEN cDNA 0610011F06 gene [Source:MGI Symbol:Acc:MG1:1915597]

ENSMUSG00000024953 Prdx6 -0.68 0.00 0.00 0.32 0.00 0.00 0.13 0.18 1.00 peroxidoxin 5 [Source:MGI Symbol:Acc:MG1:1859821]

ENSMUSG00000030759 Faf1 -0.66 0.00 0.00 0.31 0.00 0.01 0.23 0.02 1.00 fatty acyl CoA reductase 1 [Source:MGI Symbol:Acc:MG1:1914670]

ENSMUSG000000024593 Hsd17b4 -0.74 0.00 0.00 0.44 0.00 0.00 0.00 0.98 1.00 hydroxysteroid (17-beta) dehydrogenase 4 [Source:MGI Symbol:Acc:MG1:105689]

ENSMUSG00000000149 Gna12 -1.00 0.00 0.00 0.55 0.00 0.00 -0.04 0.80 1.00 guanine nucleotide binding protein, alpha 12 [Source:MGI Symbol:Acc:MG1:95767]

ENSMUSG00000035828 Pim3 -0.80 0.00 0.00 0.45 0.00 0.00 -0.14 0.25 1.00 proviral integration site 3 [Source:MGI Symbol:Acc:MG1:1355297]

ENSMUSG000000090231 Ctb -0.68 0.00 0.00 0.28 0.00 0.02 -0.16 0.16 1.00 complement factor B [Source:MGI Symbol:Acc:MG1:105975]

ENSMUSG00000043940 Wf3y -0.86 0.00 0.00 0.69 0.00 0.00 0.10 0.43 1.00 WD repeat and FYVE domain containing 3 [Source:MGI Symbol:Acc:MG1:1096875]

ENSMUSG00000004876 Lorg2 -0.91 0.00 0.00 0.60 0.00 0.00 0.00 1.00 1.00 lipoprotein 2, peroxisomal [Source:MGI Symbol:Acc:MG1:1914137]

ENSMUSG00000020902 Ntn1 -1.20 0.00 0.00 0.70 0.00 0.00 -0.21 0.18 1.00 nectin 1 [Source:MGI Symbol:Acc:MG1:105098]

ENSMUSG000000061578 Ksr2 -3.46 0.00 0.00 2.26 0.00 0.01 0.13 0.76 1.00 kinase suppressor of ras 2 [Source:MGI Symbol:Acc:MG1:3610315]

ENSMUSG000000062410 Hsd3b3 -1.02 0.00 0.00 0.74 0.00 0.00 -0.12 0.45 1.00 hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 3 [Source:MGI Symbol:Acc:MG1:96235]

ENSMUSG00000010277 2610507B11Rik -0.53 0.00 0.00 0.24 0.00 0.01 0.07 0.42 1.00 RIKEN cDNA 2610507B11 gene [Source:MGI Symbol:Acc:MG1:1919753]

ENSMUSG000000033149 Pfnhd2 -0.77 0.00 0.00 0.31 0.00 0.02 0.00 1.00 1.00 pleckstrin homology-like domain, family B, member 2 [Source:MGI Symbol:Acc:MG1:2444981]

ENSMUSG000000062926 Cpeb3 -0.88 0.00 0.00 0.64 0.00 0.00 -0.15 0.25 1.00 casein phosphoprotein 1 [Source:MGI Symbol:Acc:MG1:1929076]

ENSMUSG000000012187 Mogat1 -0.83 0.00 0.00 0.59 0.00 0.00 0.08 0.51 1.00 monooxygenase/alpha-acyltransferase 1 [Source:MGI Symbol:Acc:MG1:1915643]

ENSMUSG000000027004 Frzb -1.15 0.00 0.00 1.01 0.00 0.00 0.27 0.08 1.00 frizzled-related protein [Source:MGI Symbol:Acc:MG1:892032]

ENSMUSG000000061731 Exat1 -1.32 0.00 0.00 0.75 0.00 0.01 -0.02 0.96 1.00 exostosin (multiple) 1 [Source:MGI Symbol:Acc:MG1:894663]

ENSMUSG000000030161 Gabarap1 -0.60 0.00 0.00 0.18 0.00 0.04 -0.23 0.04 1.00 gamma-aminobutyric acid (GABA) A receptor-associated protein-like 1 [Source:MGI Symbol:Acc:MG1:1914980]

ENSMUSG00000004757 Rpl33p -0.68 0.00 0.00 0.61 0.00 0.00 0.07 0.49 1.00 RAB3A interacting protein [Source:MGI Symbol:Acc:MG1:105533]

ENSMUSG00000036932 Alfn1 -0.78 0.00 0.00 0.54 0.00 0.04 0.07 0.53 1.00 apoptosis-inducing factor [Source:MGI Symbol:Acc:MG1:1349419]

ENSMUSG000000002635 Pam -0.80 0.00 0.00 0.36 0.00 0.04 0.03 0.84 1.00 peptidylglycine alpha-amidating monoxygenase [Source:MGI Symbol:Acc:MG1:97475]

ENSMUSG000000060224 Pyrxo2 -0.84 0.00 0.00 0.55 0.00 0.00 -0.19 0.16 1.00 pyridine nucleotide-disulphide oxidoreductase domain 2 [Source:MGI Symbol:Acc:MG1:1921830]

ENSMUSG000000030884 Uqcrc2 -0.55 0.00 0.00 0.33 0.00 0.00 0.11 0.17 1.00 ubiquinol cytochrome c reductase core protein 2 [Source:MGI Symbol:Acc:MG1:1914253]

ENSMUSG000000030826 Bca2 -1.00 0.00 0.00 0.62 0.00 0.00 0.01 0.97 1.00 branched chain aminotransferase 2, mitochondrial [Source:MGI Symbol:Acc:MG1:1276534]

ENSMUSG000000084351 mt-Co1 -0.37 0.00 0.00 0.63 0.00 0.00 0.04 0.50 1.00 mitochondrial encoded cytochrome c oxidase 1 [Source:MGI Symbol:Acc:MG1:1925504]

ENSMUSG000000005653 Atp5f1 -0.55 0.00 0.00 0.34 0.00 0.00 0.13 0.11 1.00 ATP synthase, H+ transporting, mitochondrial F0 complex, subunit B1 [Source:MGI Symbol:Acc:MG1:1100405]

ENSMUSG000000028538 Sl3gag3 -1.62 0.00 0.00 0.92 0.00 0.02 -0.04 0.84 1.00 ST3 beta-galactoside alpha-2,3-sialyltransferase 3 [Source:MGI Symbol:Acc:MG1:1316659]

ENSMUSG000000020098 Pcdh1 -0.79 0.00 0.00 0.45 0.00 0.00 0.06 0.64 1.00 plectrin 4 alpha carboxinamide diacylation/dimerization cofactor of heterocyte nuclear factor 1 alpha (TCF1) [Source:MGI Symbol:Acc:MG1:94873]

ENSMUSG00000003962 Anpdp -0.88 0.00 0.00 0.58 0.00 0.01 0.14 0.26 1.00 atyranil (membrane) aminopeptidase [Source:MGI Symbol:Acc:MG1:5000466]

ENSMUSG00000000117 Pfnhd3 -0.68 0.00 0.00 0.40 0.00 0.01 0.04 0.70 1.00 pfnhd3 [mitochondrial processing] beta [Source:MGI Symbol:Acc:MG1:1920328]

ENSMUSG000000031231 Cox2p1 -0.73 0.00 0.00 0.36 0.00 0.01 0.06 0.60 1.00 cytochrome c oxidase subunit VIII [Source:MGI Symbol:Acc:MG1:1913392]

ENSMUSG000000035673 Ghrp -0.83 0.00 0.00 0.43 0.00 0.01 0.09 0.48 1.00 glyoxylate reductase/hydroxypyruvate reductase [Source:MGI Symbol:Acc:MG1:1923488]

ENSMUSG00000003896 Mapkap1 -1.28 0.00 0.00 0.76 0.00 0.01 0.05 0.79 1.00 mitogen-activated protein kinase associated protein 1 [Source:MGI Symbol:Acc:MG1:2444554]

ENSMUSG000000028013 Ppa2 -0.90 0.00 0.00 0.52 0.00 0.00 0.10 0.44 1.00 pyrophosphatase (inorganic) 2 [Source:MGI Symbol:Acc:MG1:1922026]

ENSMUSG000000066512 Kik1b5 -1.12 0.00 0.00 0.73 0.00 0.00 -0.13 0.51 1.00 kallikrein 1-related peptidase b5 [Source:MGI Symbol:Acc:MG1:892202]

ENSMUSG000000028461 Cox2p2 -0.79 0.00 0.00 0.13 0.00 0.04 0.10 0.73 1.00 foliocin interacting protein 107 [Source:MGI Symbol:Acc:MG1:1913423]

ENSMUSG000000038652 Cpeb3 -1.22 0.00 0.00 0.64 0.00 0.02 0.04 0.01 1.00 cytoplasmic polyadenylation element binding protein 3 [Source:MGI Symbol:Acc:MG1:2443075]

ENSMUSG000000038462 Uqcrc1 -0.57 0.00 0.00 0.41 0.00 0.00 0.15 0.10 1.00 ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 [Source:MGI Symbol:Acc:MG1:1913944]

ENSMUSG000000030004 Naa8 -0.82 0.00 0.00 0.66 0.00 0.00 0.23 0.12 1.00 N-acetyltransferase 8 (GCN5-related, putative) [Source:MGI Symbol:Acc:MG1:1915646]

ENSMUSG000000092511 Gm20547 -0.63 0.00 0.00 0.26 0.00 0.04 0.19 0.10 1.00 predicted gene 20547 [Source:MGI Symbol:Acc:MG1:5142012]

ENSMUSG000000014313 Coo6c -0.65 0.00 0.00 0.33 0.00 0.00 0.10 0.31 1.00 cytochrome oxidase subunit VIc [Source:MGI Symbol:Acc:MG1:104614]

ENSMUSG00000030482 Slc7a9 -0.80 0.00 0.00 0.45 0.00 0.01 -0.40 0.00 1.00 64 solute carrier family 7 (cationic amino acid transporter, y+ system), member 9 [Source:MGI Symbol:Acc:MG1:1353656]

ENSMUSG000000032120 C2cd21 -0.95 0.00 0.00 0.52 0.00 0.01 -0.05 0.75 1.00 SC2 calcium-dependent domain containing 2-like [Source:MGI Symbol:Acc:MG1:1919014]

ENSMUSG000000011770 Atp5g3 -0.61 0.00 0.00 0.43 0.00 0.00 0.17 0.07 1.00 ATP synthase, H+ transporting, mitochondrial F0 complex, subunit C3 (subunit 9) [Source:MGI Symbol:Acc:MG1:2442035]

ENSMUSG000000021764 Ndufs4 -1.02 0.00 0.00 0.51 0.00 0.04 0.10 0.49 1.00 NADH dehydrogenase (ubiquinone) Fe-S protein 4 [Source:MGI Symbol:Acc:MG1:1343135]

ENSMUSG000000060261 Ghd2 -0.72 0.00 0.00 0.48 0.00 0.00 -0.07 0.53 1.00 general transcription factor II I [Source:MGI Symbol:Acc:MG1:202722]

ENSMUSG00000001176 Fpn2 -0.67 0.00 0.00 0.13 0.00 0.04 0.10 0.73 1.00 foliocin interacting protein 108 [Source:MGI Symbol:Acc:MG1:2683054]

ENSMUSG000000036333 Kldns220 -0.61 0.00 0.00 0.39 0.00 0.00 -0.01 0.95 1.00 kinase D-interacting substrate 220 [Source:MGI Symbol:Acc:MG1:1924730]

ENSMUSG000000026259 Ngef -1.44 0.00 0.00 0.91 0.00 0.01 0.11 0.58 1.00 neuronal guanine nucleotide exchange factor [Source:MGI Symbol:Acc:MG1:1858414]

ENSMUSG00000001755 Coasy -0.55 0.00 0.00 0.27 0.00 0.03 0.02 0.89 1.00 Coenzyme A synthase [Source:MGI Symbol:Acc:MG1:1918993]

ENSMUSG00000004174 Sfn1 -0.64 0.00 0.00 0.42 0.00 0.00 0.15 0.15 1.00 sideroflexin 1 [Source:MGI Symbol:Acc:MG1:2137677]

ENSMUSG000000000000 Kpna -0.83 0.00 0.00 0.51 0.00 0.00 -0.11 0.39 1.00 kynurenine 3-monooxygenase (kynureninase 3 hydroxylase) [Source:MGI Symbol:Acc:MG1:2138151]

ENSMUSG000000038679 Trps1 -1.17 0.00 0.00 0.81 0.00 0.00 0.00 0.01 1.00 trichostatin A response protein 1 (human) [Source:MGI Symbol:Acc:MG1:1927616]

ENSMUSG000000014606 Slc25a11 -0.71 0.00 0.00 0.40 0.00 0.01 0.03 0.82 1.00 solute carrier family 25 (mitochondrial carrier oxoglutarate carrier), member 11 [Source:MGI Symbol:Acc:MG1:1915113]

ENSMUSG000000026004 Arsg -1.29 0.00 0.00 0.81 0.00 0.01 -0.23 0.23 1.00 arylsulfatase G [Source:MGI Symbol:Acc:MG1:1921258]

ENSMUSG000000025732 Fam195a -1.02 0.00 0.00 0.52 0.00 0.03 0.13 0.38 1.00 family with sequence similarity 195, member A [Source:MGI Symbol:Acc:MG1:1915491]

ENSMUSG00000004659 Pfkfb7 -0.98 0.00 0.00 0.74 0.00 0.00 -0.09 0.57 1.00 pleckstrin homology domain containing, family A member 7 [Source:MGI Symbol:Acc:MG1:2445094]

ENSMUSG000000028617 Ghrp2 -1.53 0.00 0.00 0.44 0.00 0.00 0.17 0.44 1.00 SRY-box containing gene 1 [Source:MGI Symbol:Acc:MG1:93068]

ENSMUSG000000033488 BC026858 -0.69 0.00 0.00 0.48 0.00 0.00 0.01 0.98 1.00 cDNA sequence BC026858 [Source:MGI Symbol:Acc:MG1:2448516]

ENSMUSG000000029772 Ahcy2 -0.55 0.00 0.00 0.44 0.00 0.00 0.08 0.41 1.00 S-adenosylhomocysteine hydrolase-like 2 [Source:MGI Symbol:Acc:MG1:1921590]

ENSMUSG000000023233 Hrsp12 -0.52 0.00 0.00 0.33 0.00 0.00 -0.12 0.13 1.00 heat-responsive protein 12 [Source:MGI Symbol:Acc:MG1:1095401]

ENSMUSG000000019822 Smpd2 -1.05 0.00 0.00 0.63 0.00 0.01 -0.04 0.82 1.00 sphingomyelin phosphodiesterase 2, neutral [Source:MGI Symbol:Acc:MG1:1278330]

ENSMUSG000000000000 Smpd5 -0.57 0.00 0.00 0.37 0.00 0.00 0.07 0.48 1.00 sphingomyelin-like protein 1 [Source:MGI Symbol:Acc:MG1:108081]

ENSMUSG000000029467 Atp2a2 -0.80 0.00 0.00 0.37 0.00 0.00 0.08 0.44 1.00 ATPase, Ca++ transporting, cardiac muscle, slow twitch 2 [Source:MGI Symbol:Acc:MG1:88110]

ENSMUSG000000020258 Glyck -0.66 0.00 0.00 0.54 0.00 0.00 0.15 0.19 1.00 glycerate kinase [Source:MGI Symbol:Acc:MG1:2444085]

ENSMUSG000000019872 Smpd3a -0.53 0.00 0.00 0.24 0.00 0.04 -0.09 0.34 1.00 sphingomyelin phosphodiesterase, acid-like 3A [Source:MGI Symbol:Acc:MG1:1931437]

ENSMUSG000000020100 Slc29a3 -0.80 0.00 0.00 0.62 0.00 0.00 -0.16 0.21 1.00 solute carrier family 29 (nucleoside transporters), member 3 [Source:MGI Symbol:Acc:MG1:1918529]

ENSMUSG000000025893 Rpor -1.58 0.00 0.00 0.87 0.00 0.04 0.13 0.54 1.00 regulatory associated protein of MTOR, complex 1 [Source:MGI Symbol:Acc:MG1:1921620]

ENSMUSG00000000176 Fpn3 -0.56 0.00 0.00 0.50 0.00 0.00 0.19 0.02 1.00 solute carrier family 19 (nucleoside transporters), member 16 [Source:MGI Symbol:Acc:MG1:1314842]

ENSMUSG000000018736 Naa1 -0.80 0.00 0.00 0.50 0.00 0.00 0.08 0.56 1.00 nuclear distribution gene E-like homolog 1 (A. nidulans) [Source:MGI Symbol:Acc:MG1:1932915]

ENSMUSG000000027130 Slc12a6 -0.88 0.00 0.00 0.43 0.00 0.04 0.41 0.01 1.00 solute carrier family 12, member 6 [Source:MGI Symbol:Acc:MG1:2135960]

ENSMUSG000000028179 Cth -0.64 0.00 0.00 0.55 0.00 0.00 0.16 0.14 1.00 cystathionase (cystathionine gamma-lyase) [Source:MGI Symbol:Acc:MG1:1339968]

ENSMUSG000000030301 Cods91 -1.51 0.00 0.00 0.82 0.00 0.04 0.03 0.95 1.00 chitinase domain containing 91 [Source:MGI Symbol:Acc:MG1:1914265]

ENSMUSG000000028043 Hsp90 -0.63 0.00 0.00 0.35 0.00 0.00 0.07 0.44 1.00 ATP synthase, H+ transporting, mitochondrial F0 complex, subunit F1 [Source:MGI Symbol:Acc:MG1:107777]

ENSMUSG000000028189 Ctse -1.07 0.00 0.00 0.56 0.00 0.05 0.15 0.37 1.00 cathepsin D, D-N-acetyl [Source:MGI Symbol:Acc:MG1:1921495]

ENSMUSG00000008629 Gm11788 -1.41 0.00 0.00 0.97 0.00 0.00 0.01 1.00 1.00 predicted gene 11788 [Source:MGI Symbol:Acc:MG1:3649843]

ENSMUSG00000027900 Dram2 -0.79 0.00 0.00 0.41 0.00 0.03 0.03 0.82 1.00 DNA-damage regulated autophagy modulator 2 [Source:MGI Symbol:Acc:MG1:1914421]

ENSMUSG000000027589 Pmtm2 -0.90 0.00 0.00 0.46 0.00 0.05 -0.04 0.85 1.00 succinate-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 2 [Source:MGI Symbol:Acc:MG1:1923327]

ENSMUSG00000000171 Sdhf -0.57 0.00 0.00 0.37 0.00 0.00 0.07 0.50 1.00 succinate dehydrogenase complex, subunit D, integral membrane protein [Source:MGI Symbol:Acc:MG1:1914175]

ENSMUSG000000025633 Hsp51 -0.83 0.00 0.00 0.61 0.00 0.00 0.12 0.24 1.00 metastasis suppressor 5 [Source:MGI Symbol:Acc:MG1:1924916]

ENSMUSG00000047496 Rnl152 -1.08 0.00 0.00 0.98 0.00 0.00 0.24 0.16 1.00 ring finger protein 152 [Source:MGI Symbol:Acc:MG1:2443787]

ENSMUSG000000022132 Cldn10 -0.72 0.00 0.00 0.44 0.00 0.00 -0.20 0.09 1.00 claudin 10 [Source:MGI Symbol:Acc:MG1:1913101]

ENSMUSG000000009378 Slc16a12 -0.74 0.00 0.00 0.69 0.00 0.00 0.02 0.91 1.00 solute carrier family 16 (monocarboxylic acid transporters), member 12 [Source:MGI Symbol:Acc:MG1:2147716]

ENSMUSG0000000034171 Fafh -0.91 0.00 0.00 0.47 0.00 0.04 -0.23 0.11 1.00 fatty acid amide hydrolase [Source:MGI Symbol:Acc:MG1:109609]

ENSMUSG00000002526 Aak6 -0.92 0.00 0.00 0.59 0.00 0.01 0.01 0.97 1.00 aducan 3 (gamma) [Source:MGI Symbol:Acc:MG1:1354161]

ENSMUSG00000005892 Slc110053 -0.63 0.00 0.00 0.42 0.00 0.00 0.02 0.60 1.00 predicted gene 10853 [Source:MGI Symbol:Acc:MG1:3704933]

ENSMUSG00000013593 Ndufs1 -0.50 0.00 0.00 0.32 0.00 0.00 0.11 0.23 1.00 NADH dehydrogenase (ubiquinone) Fe-S protein 2 [Source:MGI Symbol:Acc:MG1:2385111]

ENSMUSG000000024038 Ndufs3 -0.80 0.00 0.00 0.52 0.00 0.00 0.06 0.68 1.00 NADH dehydrogenase (ubiquinone) flavoprotein 3 [Source:MGI Symbol:Acc:MG1:1890994]

ENSMUSG000000027673 Ndufb5 -0.71 0.00 0.00 0.40 0.00 0.01 0.09 0.49 1.00 NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5 [Source:MGI Symbol:Acc:MG1:1913296]

ENSMUSG000000069394 Cycs -0.62 0.00 0.00 0.27 0.00 0.00 0.31 0.00 1.00 cytochrome c, somatic [Source:MGI Symbol:Acc:MG1:89578]

ENSMUSG000000028363 Hsp101 -0.52 0.00 0.00 0.41 0.00 0.05 0.09 0.75 1.00 heat shock domain containing regulator 2 [Source:MGI Symbol:Acc:MG1:1316708]

ENSMUSG000000028855 Mfd2a -2.01 0.00 0.00 1.17 0.00 0.04 0.55 0.02 1.00 major facilitator superfamily domain containing 2A [Source:MGI Symbol:Acc:MG1:1923824]

ENSMUSG000000031384 A8b9 -1.51 0.00 0.00 0.92 0.00 0.02 -0.13 0.61 1.00 ankyrin repeat and SOCS box-containing 9 [Source:MGI Symbol:Acc:MG1:1916549]

ENSMUSG000000039428 Tmem135 -0.93 0.00 0.00 0.73 0.00 0.00 0.00 1.00 1.00 transmembrane protein 135 [Source:MGI Symbol:Acc:MG1:1920009]

ENSMUSG000000026131 Dst -1.09 0.00 0.00 0.29 0.00 0.02 0.08 0.44 1.00 dystonin [Source:MGI Symbol:Acc:MG1:104627]

ENSMUSG00000003875 Hsp6 -1.04 0.00 0.00 0.66 0.00 0.01 0.21 0.21 1.00 hsp60 [Source:MGI Symbol:Acc:MG1:103188]

ENSMUSG000000069729 Arhb7 -1.21 0.00 0.00 0.72 0.00 0.01 0.04 0.86 1.00 AT rich interactive domain 1B (SWI-like) [Source:MGI Symbol:Acc:MG1:1926129]

ENSMUSG000000040327 Cui9 -1.18 0.00 0.00 0.83 0.00 0.00 0.12 0.54 1.00 cullin 9 [Source:MGI Symbol:Acc:MG1:1925559]

ENSMUSG000000031666 Rbt2 -0.93 0.00 0.00 0.66 0.00 0.00 0.01 1.00 1.00 retinoblastoma-like 2 [Source:MGI Symbol:Acc:MG1:105085]

ENSMUSG000000034853 Acot11 -0.75 0.00 0.00 0.56 0.00 0.00 -0.18 0.18 1.00 acyl-CoA thioesterase 11 [Source:MGI Symbol:Acc:MG1:1913736]

ENSMUSG000000028906 Epk4 -1.64 0.00 0.00 0.43 0.00 0.00 0.02 0.92 1.00 erythrocyte protein band 4.1 [Source:MGI Symbol:Acc:MG1:95401]

ENSMUSG000000029104 Hst5 -0.84 0.00 0.00 0.45 0.00 0.00 0.10 0.46 1.00 huntingtin [Source:MGI Symbol:Acc:MG1:96367]

ENSMUSG000000087232 Gm14764 -1.84 0.00 0.00 1.11 0.00 0.03 0.39 0.09 1.00 predicted gene 14764 [Source:MGI Symbol:Acc:MG1:3705248]

ENSMUSG000000026469 Xpr1 -0.86 0.00 0.00 0.59 0.00 0.00 0.18 0.21 1.00 xenotropic and polytropic retrovirus receptor 1 [Source:MGI Symbol:Acc:MG1:97932]

ENSMUSG000000031924 Cyb5b -0.44 0.00 0.00 0.38 0.00 0.00 0.01 0.87 1.00 cytochrome b5 type B [Source:MGI Symbol:Acc:MG1:1913677]

ENSMUSG000000021775 Nr1d2 -0.68 0.00 0.00 0.57 0.00 0.00 0.19 0.12 1.00 nuclear receptor subfamily 1, group D, member 2 [Source:MGI Symbol:Acc:MG1:2449205]

ENSMUSG000000021696 Bcl1 -1.04 0.00 0.00 0.58 0.00 0.05 -0.03 0.88 1.00 adaptor-related protein complex 3, beta 1 subunit [Source:MGI Symbol:Acc:MG1:1333879]

ENSMUSG000000081859 Inad1 -0.94 0.00 0.00 0.71 0.00 0.00 0.01 0.47 1.00 InaD-like (Drosophila) [Source:MGI Symbol:Acc:MG1:1277960]

ENSMUSG000000005199 Lgr4 -0.88 0.00 0.00 0.69 0.00 0.00 -0.05 0.74 1.00 leucine-rich repeat-containing G protein-coupled receptor 4 [Source:MGI Symbol:Acc:MG1:1891468]

ENSMUSG000000028967 Erf11 -0.71 0.00 0.00 0.34 0.00 0.01 0.00 0.90 1.00 ERBB receptor feedback inhibitor 1 [Source:MGI Symbol:Acc:MG1:1921405]

ENSMUSG000000036395 Glt12 -0.83 0.00 0.00 0.84 0.00 0.00 -0.03 0.82 1.00 galactosidase, beta 1-like 2 [Source:MGI Symbol:Acc:MG1:2388283]

ENSMUSG000000032330 Cox7a2 -0.64 0.00 0.00 0.44 0.00 0.00 0.13 0.24 1.00 cytochrome c oxid

ENSMUSG000000038740	Fam125b	-1.37	0.00	0.00	0.88	0.00	0.02	0.00	1.00	1.00	family with sequence similarity 125, member B [Source:MGI Symbol;Acc:MG:1919793]
ENSMUSG00000001484	Lman2	-0.59	0.00	0.00	0.31	0.00	0.05	0.07	0.52	1.00	lectin, mannose-binding 2 [Source:MGI Symbol;Acc:MG:1914140]
ENSMUSG000000052738	Surgn1	-0.53	0.00	0.00	0.43	0.00	0.00	0.05	0.65	1.00	succinate-CoA ligase, GDP-forming, alpha subunit [Source:MGI Symbol;Acc:MG:1927234]
ENSMUSG000000000000		-1.47	0.00	0.00	0.17	0.00	0.00	0.17	0.01	1.00	muscle elevator 1 [Source:MGI Symbol;Acc:MG:2148801]
ENSMUSG000000046329	Slc25a23	-0.79	0.00	0.00	0.46	0.00	0.03	-0.15	0.32	1.00	solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 23 [Source:MGI Symbol;Acc:MG:1914222]
ENSMUSG000000057315	Arhgap24	-0.62	0.00	0.00	0.45	0.00	0.00	-0.08	0.47	1.00	Rho GTPase activating protein 24 [Source:MGI Symbol;Acc:MG:1922647]
ENSMUSG000000024935	Slc1a1	-0.51	0.00	0.00	0.56	0.00	0.00	0.12	0.22	1.00	solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1 [Source:MGI Symbol;Acc:MG:105083]
ENSMUSG000000052942	Gli3	-0.91	0.00	0.00	0.65	0.00	0.00	0.09	0.58	1.00	GLIS family zinc finger 3 [Source:MGI Symbol;Acc:MG:19244289]
ENSMUSG000000000000		-0.88	0.00	0.00	0.68	0.00	0.00	0.06	0.72	1.00	DBP domain containing 19 [Source:MGI Symbol;Acc:MG:19246322]
ENSMUSG000000057939	Exoc5	-0.93	0.00	0.00	0.66	0.00	0.00	-0.07	0.73	1.00	exocyst complex component 6 [Source:MGI Symbol;Acc:MG:1951611]
ENSMUSG0000000078636	Gm3200	-0.35	0.00	0.00	0.17	0.00	0.04	0.00	0.99	1.00	predicted pseudogene 3200 [Source:MGI Symbol;Acc:MG:3781379]
ENSMUSG000000008610	Gm15318	-1.55	0.00	0.00	0.98	0.00	0.03	-0.10	0.69	1.00	predicted gene 15318 [Source:MGI Symbol;Acc:MG:3705106]
ENSMUSG0000000095042	Gm12537	-0.35	0.00	0.00	0.17	0.00	0.04	0.00	0.98	1.00	predicted gene 12537 [Source:MGI Symbol;Acc:MG:3650720]
ENSMUSG000000002762	Suncr1	-1.08	0.00	0.00	0.89	0.00	0.00	-0.01	1.00	1.00	succinate receptor 1 [Source:MGI Symbol;Acc:MG:1934135]
ENSMUSG000000000285	P19kaa2	-0.52	0.00	0.00	0.46	0.00	0.00	0.14	0.19	1.00	protein kinase, AMP-activated, alpha 2 catalytic subunit [Source:MGI Symbol;Acc:MG:1336173]
ENSMUSG000000058620	Adra2b	-0.73	0.00	0.00	0.82	0.00	0.00	-0.12	0.40	1.00	adrenergic receptor, alpha 2b [Source:MGI Symbol;Acc:MG:187935]
ENSMUSG00000004808	S100g	-0.69	0.00	0.00	0.37	0.00	0.00	-0.29	0.06	1.00	S100 calcium binding protein G [Source:MGI Symbol;Acc:MG:104528]
ENSMUSG000000062073	Gm10109	-1.24	0.00	0.00	0.92	0.00	0.00	0.03	0.94	1.00	predicted gene 10109 [Source:MGI Symbol;Acc:MG:3647742]
ENSMUSG000000006939	Gm12070	-0.35	0.00	0.00	0.17	0.00	0.04	0.00	0.98	1.00	predicted gene 12070 [Source:MGI Symbol;Acc:MG:3650751]
ENSMUSG000000004118	Stra6a5	-1.25	0.00	0.00	0.75	0.00	0.05	0.21	0.33	1.00	ST6 alpha-N-acetyl-neuraminidase alpha-2,8-sialyltransferase 6 [Source:MGI Symbol;Acc:MG:2386797]
ENSMUSG0000000095143	Hsd3B4	-0.60	0.00	0.00	0.63	0.00	0.00	-0.10	0.40	1.00	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 4 [Source:MGI Symbol;Acc:MG:96236]
ENSMUSG000000000399	Ndufa9	-0.56	0.00	0.00	0.42	0.00	0.00	0.09	0.43	1.00	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9 [Source:MGI Symbol;Acc:MG:1913358]
ENSMUSG000000021097	Climn	-0.64	0.00	0.00	0.72	0.00	0.00	0.04	0.70	1.00	calmin [Source:MGI Symbol;Acc:MG:12136957]
ENSMUSG000000005533	Igf1r	-1.00	0.00	0.00	0.99	0.00	0.00	0.19	0.30	1.00	insulin-like growth factor 1 receptor [Source:MGI Symbol;Acc:MG:96433]
ENSMUSG000000030199	Enr6	-1.00	0.00	0.00	0.65	0.00	0.03	0.40	0.02	1.00	ets variant gene 6 (TEL oncogene) [Source:MGI Symbol;Acc:MG:1095393]
ENSMUSG000000000000		-0.75	0.00	0.00	0.55	0.00	0.00	0.14	0.24	1.00	nicotinamide sulfonamide reductase B1 [Source:MGI Symbol;Acc:MG:1351642]
ENSMUSG000000025890	Hspd1	-0.45	0.00	0.00	0.23	0.00	0.00	0.25	0.01	1.00	heat shock protein 1 (chaperonin) [Source:MGI Symbol;Acc:MG:96242]
ENSMUSG000000017253	Slc25a16	-0.66	0.00	0.00	0.42	0.00	0.01	0.12	0.33	1.00	solute carrier family 25 (mitochondrial carrier, Graves disease autoantigen), member 16 [Source:MGI Symbol;Acc:MG:1920382]
ENSMUSG000000002816	Ppp3ca	-1.01	0.00	0.00	0.67	0.00	0.02	0.10	0.62	1.00	protein phosphatase 3, catalytic subunit, alpha isoform [Source:MGI Symbol;Acc:MG:107164]
ENSMUSG000000016319	Slc25a5	-0.45	0.00	0.00	0.37	0.00	0.00	0.10	0.22	1.00	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 [Source:MGI Symbol;Acc:MG:1353496]
ENSMUSG000000002619	Lpss6	-0.65	0.00	0.00	0.49	0.00	0.00	0.15	0.23	1.00	acyl-CoA oxidase 12 [Source:MGI Symbol;Acc:MG:1921406]
ENSMUSG000000029059	Zfp105	-0.83	0.00	0.00	0.55	0.00	0.02	-0.03	0.83	1.00	RIKEN cDNA 2810405K02 gene [Source:MGI Symbol;Acc:MG:1913719]
ENSMUSG000000053436	Mapk14	-0.68	0.00	0.00	0.45	0.00	0.01	0.11	0.42	1.00	mitogen-activated protein kinase 14 [Source:MGI Symbol;Acc:MG:1346865]
ENSMUSG0000000083773	Gm13394	-0.34	0.00	0.00	0.18	0.00	0.01	0.01	0.86	1.00	predicted gene 13394 [Source:MGI Symbol;Acc:MG:3651848]
ENSMUSG000000005938	Acbd4	-0.64	0.00	0.00	0.59	0.00	0.00	0.01	0.95	1.00	acyl-Coenzyme A binding domain containing 4 [Source:MGI Symbol;Acc:MG:1914381]
ENSMUSG0000000068513	Kk1b4	-4.91	0.00	0.00	5.88	0.00	0.00	0.78	0.22	1.00	kallikrein 1-related peptidase b4 [Source:MGI Symbol;Acc:MG:971320]
ENSMUSG000000002897	Per3	-1.09	0.00	0.00	0.87	0.00	0.02	0.31	0.07	1.00	period homolog 3 (Drosophila) [Source:MGI Symbol;Acc:MG:1277134]
ENSMUSG0000000095388	Gm10681	-0.58	0.00	0.00	0.62	0.00	0.00	-0.09	0.45	1.00	predicted gene 10681 [Source:MGI Symbol;Acc:MG:3711284]
ENSMUSG000000006456	Rdh16	-0.61	0.00	0.00	0.65	0.00	0.00	0.09	0.46	1.00	retinol dehydrogenase 16 [Source:MGI Symbol;Acc:MG:1201375]
ENSMUSG000000002210	Dhrs4	-0.61	0.00	0.00	0.38	0.00	0.01	0.07	0.59	1.00	dehydrogenase/reductase (SDR family) member 4 [Source:MGI Symbol;Acc:MG:901616]
ENSMUSG000000002127	Abcd3	-0.49	0.00	0.00	0.37	0.00	0.00	0.11	0.23	1.00	ATP-binding cassette, sub-family D (ALD), member 3 [Source:MGI Symbol;Acc:MG:1349216]
ENSMUSG000000002735	Lpsa6	-0.82	0.00	0.00	0.58	0.00	0.00	0.26	0.43	1.00	lysyl homolg, ceramide synthase 6 [Source:MGI Symbol;Acc:MG:2442564]
ENSMUSG000000047230	Cldn2	-0.45	0.00	0.00	0.24	0.00	0.00	-0.07	0.49	1.00	claudin 2 [Source:MGI Symbol;Acc:MG:1278110]
ENSMUSG000000057228	Adad2	-0.75	0.00	0.00	0.93	0.00	0.00	0.29	0.01	1.00	aminoadipate aminotransferase [Source:MGI Symbol;Acc:MG:1345167]
ENSMUSG0000000059493	Nhs	-1.53	0.00	0.00	1.12	0.00	0.01	-0.16	0.56	1.00	Nance-Horan syndrome (human) [Source:MGI Symbol;Acc:MG:2684894]
ENSMUSG0000000072946	Ptgr2	-0.59	0.00	0.00	0.42	0.00	0.00	0.10	0.39	1.00	prostaglandin reductase 2 [Source:MGI Symbol;Acc:MG:1916372]
ENSMUSG0000000009281	Rares2	-0.98	0.00	0.00	0.64	0.00	0.03	0.21	0.25	1.00	retinoic acid receptor responder (tazarotene induced) 2 [Source:MGI Symbol;Acc:MG:1918910]
ENSMUSG000000001959	Ndufb11	-1.09	0.00	0.00	0.35	0.00	0.00	0.09	0.28	1.00	lactate dehydrogenase B [Source:MGI Symbol;Acc:MG:96763]
ENSMUSG000000029632	Ndufa4	-0.48	0.00	0.00	0.32	0.00	0.00	0.14	0.15	1.00	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4 [Source:MGI Symbol;Acc:MG:107686]
ENSMUSG0000000025533	Asl	-0.47	0.00	0.00	0.31	0.00	0.01	-0.05	0.68	1.00	argininosuccinate lyase [Source:MGI Symbol;Acc:MG:88084]
ENSMUSG0000000028975	Pex14	-1.05	0.00	0.00	0.66	0.00	0.05	-0.02	0.95	1.00	peroxisomal biogenesis factor 14 [Source:MGI Symbol;Acc:MG:1927868]
ENSMUSG000000020664	Did	-0.42	0.00	0.00	0.26	0.00	0.01	0.17	0.06	1.00	dihydroipomate dehydrogenase [Source:MGI Symbol;Acc:MG:107450]
ENSMUSG000000002619	Dst	-0.52	0.00	0.00	0.36	0.00	0.00	0.17	0.09	1.00	bisphosphate 3, nucleotidase 1 [Source:MGI Symbol;Acc:MG:1338600]
ENSMUSG00000001384	Sudc3	-1.01	0.00	0.00	0.90	0.00	0.00	0.15	0.47	1.00	sushi domain containing 3 [Source:MGI Symbol;Acc:MG:1913579]
ENSMUSG000000007817	Zmz1	-0.74	0.00	0.00	0.51	0.00	0.01	-0.11	0.46	1.00	zinc finger, MIZ-type containing 1 [Source:MGI Symbol;Acc:MG:3040693]
ENSMUSG000000057666	Gapdh	-0.34	0.00	0.00	0.17	0.00	0.01	0.02	0.74	1.00	glyceraldehyde-3-phosphate dehydrogenase [Source:MGI Symbol;Acc:MG:95640]
ENSMUSG0000000062397	Zfp706	-0.59	0.00	0.00	0.34	0.00	0.00	0.15	0.19	1.00	zinc finger protein 706 [Source:MGI Symbol;Acc:MG:1915286]
ENSMUSG0000000090817	Gm4450	-0.58	0.00	0.00	0.60	0.00	0.00	-0.09	0.47	1.00	predicted gene 4450 [Source:MGI Symbol;Acc:MG:3782634]
ENSMUSG0000000003246	Lpsa5	-0.35	0.00	0.00	0.29	0.00	0.00	0.09	0.28	1.00	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 11 [Source:MGI Symbol;Acc:MG:1349919]
ENSMUSG0000000039988	Ankrd13c	-0.59	0.00	0.00	0.34	0.00	0.04	0.15	0.21	1.00	ankyrin repeat domain 13c [Source:MGI Symbol;Acc:MG:2139746]
ENSMUSG0000000036503	Rnf13	-0.59	0.00	0.00	0.36	0.00	0.03	0.02	0.88	1.00	ring finger protein 13 [Source:MGI Symbol;Acc:MG:1346341]
ENSMUSG000000012846	Peil2	-0.90	0.00	0.00	0.67	0.00	0.01	0.06	0.76	1.00	pellino 2 [Source:MGI Symbol;Acc:MG:1891445]
ENSMUSG000000017639	Rab11fip4	-0.86	0.00	0.00	0.57	0.00	0.03	-0.15	0.41	1.00	RAB11 family interacting protein 4 (class I) [Source:MGI Symbol;Acc:MG:2442920]
ENSMUSG000000002735	Dst	-0.52	0.00	0.00	0.29	0.00	0.00	0.14	0.10	1.00	lysyl homologue, succinyltransferase (E2 component of 2-oxoglutarate complex) [Source:MGI Symbol;Acc:MG:1926170]
ENSMUSG0000000056706	Rfx2	-0.51	0.00	0.00	0.33	0.00	0.00	0.09	0.33	1.00	succinate dehydrogenase complex, subunit C, integral membrane protein [Source:MGI Symbol;Acc:MG:1913302]
ENSMUSG0000000078965	Gm12033	-0.34	0.00	0.00	0.18	0.00	0.01	0.01	0.86	1.00	predicted gene 12033 [Source:MGI Symbol;Acc:MG:3650772]
ENSMUSG0000000025584	Pde8a	-0.87	0.00	0.00	0.58	0.00	0.03	-0.01	0.96	1.00	phosphodiesterase 8A [Source:MGI Symbol;Acc:MG:1277116]
ENSMUSG0000000026260	Ndufa10	-0.51	0.00	0.00	0.31	0.00	0.02	0.08	0.46	1.00	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10 [Source:MGI Symbol;Acc:MG:1914523]
ENSMUSG0000000029556	Hnf1a	-0.83	0.00	0.00	0.64	0.00	0.00	-0.17	0.33	1.00	HNF1 homeobox A [Source:MGI Symbol;Acc:MG:98504]
ENSMUSG0000000003246	Rfx2	-0.84	0.00	0.00	0.31	0.00	0.00	0.09	0.80	1.00	nuclear receptor coactivator 2 [Source:MGI Symbol;Acc:MG:1276533]
ENSMUSG000000018999	Slc35b4	-0.66	0.00	0.00	0.79	0.00	0.00	0.09	0.53	1.00	solute carrier family 35, member 84 [Source:MGI Symbol;Acc:MG:1931249]
ENSMUSG0000000086296	D030055H07Rk	-0.61	0.00	0.00	0.48	0.00	0.00	0.16	0.22	1.00	RIKEN cDNA D030055H07 gene [Source:MGI Symbol;Acc:MG:3605036]
ENSMUSG000000047787	Fhl1	-1.28	0.00	0.00	0.86	0.00	0.04	0.08	0.72	1.00	fibronectin leucine rich transmembrane protein 1 [Source:MGI Symbol;Acc:MG:3026647]
ENSMUSG0000000037270	4932438A13Rk	-0.79	0.00	0.00	0.53	0.00	0.02	-0.06	0.82	1.00	RIKEN cDNA 4932438A13 gene [Source:MGI Symbol;Acc:MG:2444631]
ENSMUSG000000000000		-0.34	0.00	0.00	0.18	0.00	0.01	0.02	0.90	1.00	predicted gene 37270 [Source:MGI Symbol;Acc:MG:3650751]
ENSMUSG000000003528	BC021785	-0.50	0.00	0.00	0.55	0.00	0.00	-0.06	0.65	1.00	

ENSMUSG0000028093	Acp6	-0.56	0.00	0.00	0.64	0.00	0.00	0.01	1.00	1.00	acid phosphatase 6, lysophosphatidic	[Source:MGJ Symbol:Acc:MGJ:1931010]
ENSMUSG0000003814	Calr	-0.35	0.00	0.00	0.24	0.00	0.00	0.00	0.11	1.00	calreticulin	[Source:MGJ Symbol:Acc:MGJ:88252]
ENSMUSG0000000708	Kat2b	-0.62	0.00	0.00	0.51	0.00	0.03	0.16	0.32	1.00	K(lysine) acetyltransferase 2B	[Source:MGJ Symbol:Acc:MGJ:1343094]
ENSMUSG0000014361	Merlk	-0.81	0.00	0.00	0.74	0.00	0.02	0.21	0.32	1.00	c-met proto-oncogene tyrosine kinase	[Source:MGJ Symbol:Acc:MGJ:66865]
ENSMUSG00000025085	Abim1	-0.57	0.00	0.00	0.57	0.00	0.00	0.06	0.70	1.00	actin-binding LIM protein 1	[Source:MGJ Symbol:Acc:MGJ:1194500]
ENSMUSG0000001436	Sic19a1	-0.55	0.00	0.00	0.47	0.00	0.02	-0.10	0.52	1.00	solute carrier family 19 (folate transporter), member 1	[Source:MGJ Symbol:Acc:MGJ:103182]
ENSMUSG00000025950	Ihd1	-0.32	0.00	0.00	0.64	0.00	0.00	-0.02	0.82	1.00	isocitrate dehydrogenase 1 (NADP+), soluble	[Source:MGJ Symbol:Acc:MGJ:96413]
ENSMUSG00000061742	Sic22a12	-0.40	0.00	0.00	0.30	0.00	0.01	-0.09	0.40	1.00	solute carrier family 22 (organic anion/cation transporter), member 12	[Source:MGJ Symbol:Acc:MGJ:1195269]
ENSMUSG00000022356	Atp5o	-0.37	0.00	0.00	0.38	0.00	0.00	0.14	0.19	1.00	ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit	[Source:MGJ Symbol:Acc:MGJ:106341]
ENSMUSG00000023571	Fam132a	-0.63	0.00	0.00	0.74	0.00	0.00	0.00	1.00	1.00	family with sequence similarity 132, member A	[Source:MGJ Symbol:Acc:MGJ:1914639]
ENSMUSG000000042700	Sipa11l	-0.52	0.00	0.00	0.56	0.00	0.00	-0.02	0.90	1.00	signal-induced proliferation-associated 1 like 1	[Source:MGJ Symbol:Acc:MGJ:2443679]
ENSMUSG000000024120	Lrpprc	-0.47	0.00	0.00	0.44	0.00	0.01	0.15	0.23	1.00	leucine-rich PPR-motif containing	[Source:MGJ Symbol:Acc:MGJ:1919666]
ENSMUSG000000029571	Tmem106b	-0.33	0.00	0.00	0.51	0.00	0.00	0.13	0.19	1.00	transmembrane protein 106B	[Source:MGJ Symbol:Acc:MGJ:1919150]
ENSMUSG000000040447	Spm2	-0.70	0.00	0.00	0.75	0.00	0.00	-0.28	0.16	1.00	spinster homolog 2	[Source:MGJ Symbol:Acc:MGJ:2384936]
ENSMUSG00000024589	Nesd4l	-0.54	0.00	0.01	0.62	0.00	0.00	0.03	0.89	1.00	thiopurine methyltransferase	[Source:MGJ Symbol:Acc:MGJ:98812]
ENSMUSG000000035885	Cox8a	-0.37	0.00	0.00	0.36	0.00	0.00	0.14	0.21	1.00	cytochrome c oxidase, subunit VIIIa	[Source:MGJ Symbol:Acc:MGJ:105959]
ENSMUSG000000030769	Sic5a11	-0.63	0.00	0.00	0.75	0.00	0.00	-0.25	0.18	1.00	solute carrier family 5 (sodium/glucose cotransporter), member 11	[Source:MGJ Symbol:Acc:MGJ:1919316]
ENSMUSG000000020048	Hsp90b1	-0.34	0.00	0.01	0.24	0.00	0.03	0.34	0.00	0.51	heat shock protein 90, beta (Grp94), member 1	[Source:MGJ Symbol:Acc:MGJ:98817]
ENSMUSG000000061518	Cox5b	-0.39	0.00	0.01	0.32	0.00	0.00	0.10	0.39	1.00	cytochrome c oxidase, subunit Vb	[Source:MGJ Symbol:Acc:MGJ:88475]
ENSMUSG000000097658	AL669855.2	-0.50	0.00	0.01	0.45	0.00	0.02	0.03	0.87	1.00	neural precursor cell expressed, developmentally down-regulated gene 4-like	[Source:MGJ Symbol:Acc:MGJ:1933754]
ENSMUSG000000018849	Wwe1	-0.38	0.00	0.01	0.43	0.00	0.00	-0.22	0.05	1.00	WW, C2 and coiled-coil domain containing 1	[Source:MGJ Symbol:Acc:MGJ:2388637]
ENSMUSG000000038890	Atp5j2	-0.43	0.00	0.01	0.34	0.00	0.03	0.15	0.25	1.00	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit F2	[Source:MGJ Symbol:Acc:MGJ:1927558]
ENSMUSG000000038173	Enpp6	-0.58	0.00	0.01	0.59	0.00	0.01	0.15	0.37	1.00	ectonucleotide pyrophosphatase/phosphodiesterase 6	[Source:MGJ Symbol:Acc:MGJ:2445171]
ENSMUSG000000000876	Pxmp4	-0.40	0.00	0.01	0.53	0.00	0.00	0.02	0.88	1.00	peroxisomal membrane protein 4	[Source:MGJ Symbol:Acc:MGJ:1891701]
ENSMUSG000000034135	Ski3	-0.54	0.00	0.01	0.62	0.00	0.00	-0.05	0.78	1.00	ShK family kinase 3	[Source:MGJ Symbol:Acc:MGJ:2446296]
ENSMUSG000000043367	Sic16a13	-0.57	0.00	0.01	0.53	0.00	0.04	-0.20	0.27	1.00	solute carrier family 16 (monocarboxylic acid transporters), member 13	[Source:MGJ Symbol:Acc:MGJ:1916559]
ENSMUSG000000031563	Wwc2	-0.41	0.00	0.01	0.43	0.00	0.00	0.01	0.97	1.00	WW, C2 and coiled-coil domain containing 2	[Source:MGJ Symbol:Acc:MGJ:1261872]
ENSMUSG000000020572	Nampt	-0.37	0.00	0.01	0.38	0.00	0.01	0.13	0.28	1.00	nicotinamide phosphoribosyltransferase	[Source:MGJ Symbol:Acc:MGJ:1929865]
ENSMUSG000000022479	Vdr	-0.29	0.00	0.01	0.64	0.00	0.00	-0.09	0.41	1.00	vitamin D receptor	[Source:MGJ Symbol:Acc:MGJ:103076]
ENSMUSG00000036890	Aca2	-0.41	0.00	0.01	0.37	0.00	0.02	-0.28	0.03	1.00	acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase)	[Source:MGJ Symbol:Acc:MGJ:1098623]
ENSMUSG00000030747	Dgat2	-0.35	0.00	0.01	0.33	0.00	0.02	-0.03	0.80	1.00	diacylglycerol O acyltransferase 2	[Source:MGJ Symbol:Acc:MGJ:1915050]
ENSMUSG0000000062070	Pgk1	-0.27	0.00	0.01	0.21	0.00	0.01	0.19	0.02	1.00	phosphoglycerate kinase 1	[Source:MGJ Symbol:Acc:MGJ:97555]
ENSMUSG00000002182	Ddc	-0.59	0.00	0.01	0.70	0.00	0.00	-0.48	0.01	1.00	dopa decarboxylase	[Source:MGJ Symbol:Acc:MGJ:94876]
ENSMUSG000000006717	Acat13	-0.45	0.00	0.01	0.44	0.00	0.02	0.12	0.43	1.00	acyl-CoA thioesterase 13	[Source:MGJ Symbol:Acc:MGJ:1914084]
ENSMUSG000000025610	ORF63	-0.62	0.00	0.01	0.55	0.00	0.05	0.13	0.56	1.00	open reading frame 63	[Source:MGJ Symbol:Acc:MGJ:2446584]
ENSMUSG000000070734	Sic44a4	-0.40	0.00	0.01	0.47	0.00	0.00	0.05	0.71	1.00	solute carrier family 44, member 4	[Source:MGJ Symbol:Acc:MGJ:1917379]
ENSMUSG000000022450	Ndufa6	-0.38	0.00	0.01	0.35	0.00	0.02	0.16	0.18	1.00	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 6 (B14)	[Source:MGJ Symbol:Acc:MGJ:1914380]
ENSMUSG000000059534	Uqc1r10	-0.41	0.00	0.01	0.34	0.00	0.01	0.16	0.23	1.00	ubiquinol-cytochrome c reductase, complex III subunit X	[Source:MGJ Symbol:Acc:MGJ:1913402]
ENSMUSG000000025207	Sema4g	-0.41	0.00	0.01	0.56	0.00	0.00	-0.20	0.16	1.00	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4G	[Source:MGJ Symbol:Acc:MGJ:1347047]
ENSMUSG000000021520	Uqc1rb	-0.38	0.00	0.01	0.31	0.00	0.04	0.19	0.12	1.00	ubiquinol-cytochrome c reductase binding protein	[Source:MGJ Symbol:Acc:MGJ:1914780]
ENSMUSG00000017688	Hnf4g	-1.11	0.00	0.01	1.19	0.00	0.01	0.14	0.69	1.00	hepatocyte nuclear factor 4, gamma	[Source:MGJ Symbol:Acc:MGJ:1353604]
ENSMUSG000000018796	Acat1	-0.39	0.00	0.01	0.35	0.00	0.03	-0.53	0.00	0.08	acyl-CoA synthetase long-chain family member 1	[Source:MGJ Symbol:Acc:MGJ:102797]
ENSMUSG000000059173	Pde1a	-0.46	0.00	0.01	0.60	0.00	0.00	-0.08	0.61	1.00	phosphodiesterase 1A, calmodulin-dependent	[Source:MGJ Symbol:Acc:MGJ:1201792]
ENSMUSG000000027610	Gss	-0.25	0.00	0.02	0.25	0.00	0.00	0.21	0.02	1.00	glutathione synthetase	[Source:MGJ Symbol:Acc:MGJ:95852]
ENSMUSG000000028559	Osbp19	-0.34	0.00	0.02	0.41	0.00	0.00	0.02	0.90	1.00	oxysterol binding protein-like 9	[Source:MGJ Symbol:Acc:MGJ:1923784]
ENSMUSG000000027598	Ich	-0.42	0.00	0.02	0.55	0.00	0.00	0.07	0.61	1.00	itchy, E3 ubiquitin protein ligase	[Source:MGJ Symbol:Acc:MGJ:1202301]
ENSMUSG000000044249	Dalb29	-0.60	0.00	0.02	0.63	0.00	0.02	0.22	0.26	1.00	defensin beta 29	[Source:MGJ Symbol:Acc:MGJ:1922650]
ENSMUSG000000027893	Ahcy11	-0.29	0.00	0.02	0.28	0.00	0.02	0.13	0.19	1.00	S-adenosylhomocysteine hydrolase-like 1	[Source:MGJ Symbol:Acc:MGJ:2385184]
ENSMUSG000000038060	Dlec1	-0.40	0.00	0.02	0.46	0.00	0.00	0.00	1.00	1.00	deleted in lung and esophageal cancer 1	[Source:MGJ Symbol:Acc:MGJ:2443671]
ENSMUSG000000022354	Ndufb9	-0.30	0.00	0.03	0.29	0.00	0.01	0.15	0.16	1.00	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9	[Source:MGJ Symbol:Acc:MGJ:1913468]
ENSMUSG000000034613	Ppm1h	-0.58	0.00	0.03	0.67	0.00	0.01	-0.22	0.28	1.00	protein phosphatase 1H (PP2C domain containing)	[Source:MGJ Symbol:Acc:MGJ:2442087]
ENSMUSG000000038170	Pde4dp	-0.34	0.00	0.03	0.40	0.00	0.01	0.11	0.41	1.00	phosphodiesterase 4D interacting protein (myomegalin)	[Source:MGJ Symbol:Acc:MGJ:1891434]
ENSMUSG000000045636	Mnut1	-0.39	0.00	0.03	0.38	0.00	0.03	0.16	0.28	1.00	mitochondrial tumor suppressor 1	[Source:MGJ Symbol:Acc:MGJ:2142572]
ENSMUSG000000058655	Eif4b	-0.24	0.01	0.04	0.22	0.00	0.04	0.02	0.88	1.00	eukaryotic translation initiation factor 4B	[Source:MGJ Symbol:Acc:MGJ:95304]
ENSMUSG000000027775	Mfsd1	-0.25	0.01	0.04	0.26	0.00	0.02	-0.03	0.79	1.00	major facilitator superfamily domain containing 1	[Source:MGJ Symbol:Acc:MGJ:1914118]
ENSMUSG000000040209	Zfp704	-0.47	0.01	0.04	0.73	0.00	0.00	-0.13	0.49	1.00	zinc finger protein 704	[Source:MGJ Symbol:Acc:MGJ:2180715]
ENSMUSG000000040170	Fmo2	-0.23	0.01	0.04	0.19	0.00	0.03	-0.19	0.11	1.00	flavin containing monooxygenase 2	[Source:MGJ Symbol:Acc:MGJ:1916776]
ENSMUSG000000029273	Sulf1a1	-0.50	0.01	0.04	0.81	0.00	0.00	0.31	0.00	0.56	sulfotransferase family 1D, member 1	[Source:MGJ Symbol:Acc:MGJ:1928341]
ENSMUSG000000078566	Bnip3	-0.31	0.01	0.05	0.41	0.00	0.00	0.02	0.87	1.00	BCL2/adenovirus E1B interacting protein 3	[Source:MGJ Symbol:Acc:MGJ:109326]

Sup. Table 1 SET VII

ENSEMBL	Symbol	CP versus Sal			CP versus CP+DCA			DCA versus Sal			Desc
		logFC	PValue	FDR	logFC	PValue	FDR	logFC	PValue	FDR	
ENSMUSG0000001773	Folh1	-0.36	0.03	0.17	1.29	0.00	0.00	-0.10	0.57	1.00	folate hydrolase 1 [Source:MG Symbol;Acc:MG:1858193]
ENSMUSG00000028692	Akr1a1	-0.11	0.09	0.38	0.38	0.00	0.00	-0.05	0.49	1.00	aldo-keto reductase family 1, member A1 (aldehyde reductase) [Source:MG Symbol;Acc:MG:1929955]
ENSMUSG00000060317	Acat2	0.34	0.06	0.30	0.92	0.00	0.00	-0.19	0.29	1.00	acyl-coenzyme A amino acid N-acyltransferase 2 [Source:MG Symbol;Acc:MG:2444345]
ENSMUSG00000021185	9030617003Rik	0.64	0.00	0.00	0.61	0.00	0.00	0.27	0.03	1.00	RIKEN cDNA 9030617003 gene [Source:MG Symbol;Acc:MG:2444843]
ENSMUSG00000004610	Eflb	-0.24	0.02	0.13	0.48	0.00	0.00	0.16	0.14	1.00	electron transferring flavoprotein, beta polypeptide [Source:MG Symbol;Acc:MG:106098]
ENSMUSG00000039648	Cctb1	-0.34	0.02	0.11	0.75	0.00	0.00	0.30	0.02	1.00	cysteine conjugate-beta lyase 1 [Source:MG Symbol;Acc:MG:1917516]
ENSMUSG00000021612	Slc6a18	-0.22	0.02	0.12	0.52	0.00	0.00	0.00	0.97	1.00	solute carrier family 6 (neurotransmitter transporter), member 18 [Source:MG Symbol;Acc:MG:1336892]
ENSMUSG00000020839	Tmidg1	0.17	0.11	0.45	0.49	0.00	0.00	0.52	0.00	0.00	transmembrane and immunoglobulin domain containing 1 [Source:MG Symbol;Acc:MG:1913851]
ENSMUSG00000024503	Spink3	-0.14	0.30	0.88	0.50	0.00	0.00	0.21	0.11	1.00	serine peptidase inhibitor, Kazal type 3 [Source:MG Symbol;Acc:MG:106202]
ENSMUSG00000023120	Gm853	-0.32	0.06	0.28	0.83	0.00	0.00	0.48	0.00	1.00	predicted gene 853 [Source:MG Symbol;Acc:MG:2685699]
ENSMUSG00000010651	Acaa1b	0.25	0.00	0.02	0.37	0.00	0.00	-0.16	0.11	1.00	acetyl-Coenzyme A acyltransferase 1B [Source:MG Symbol;Acc:MG:3605455]
ENSMUSG00000029700	Slc13a1	0.97	0.00	0.00	0.69	0.00	0.00	-0.02	0.86	1.00	solute carrier family 13 (sodium/sulfate symporters), member 1 [Source:MG Symbol;Acc:MG:1859937]
ENSMUSG00000027698	Nceh1	-0.26	0.01	0.07	0.44	0.00	0.00	0.29	0.01	1.00	arylacetamide deacetylase-like 1 [Source:MG Symbol;Acc:MG:2443191]
ENSMUSG00000022108	Ihm2b	-0.02	0.76	1.00	0.27	0.00	0.00	-0.01	0.94	1.00	integral membrane protein 2B [Source:MG Symbol;Acc:MG:1309517]
ENSMUSG00000038567	Cyp24a1	0.81	0.01	0.06	0.82	0.00	0.00	-1.11	0.00	0.56	cytochrome P450, family 24, subfamily a, polypeptide 1 [Source:MG Symbol;Acc:MG:88593]
ENSMUSG00000035898	Ech1	-0.31	0.01	0.07	0.50	0.00	0.00	0.03	0.80	1.00	enoyl coenzyme A hydratase 1, peroxisomal [Source:MG Symbol;Acc:MG:1858208]
ENSMUSG00000026568	Mpc2	-0.27	0.01	0.08	0.43	0.00	0.00	0.14	0.22	1.00	mitochondrial pyruvate carrier 2 [Source:MG Symbol;Acc:MG:1917706]
ENSMUSG00000028088	Fmo5	-0.30	0.03	0.15	0.61	0.00	0.00	0.35	0.01	1.00	flavin containing monooxygenase 5 [Source:MG Symbol;Acc:MG:1310004]
ENSMUSG00000034903	Cobl1	-0.17	0.16	0.59	0.52	0.00	0.00	0.04	0.76	1.00	Cobl-like 1 [Source:MG Symbol;Acc:MG:2442894]
ENSMUSG00000028639	Ybx1	-0.19	0.02	0.11	0.27	0.00	0.00	0.23	0.03	1.00	Y box protein 1 [Source:MG Symbol;Acc:MG:99146]
ENSMUSG00000028545	Bend5	-0.50	0.01	0.09	0.92	0.00	0.00	0.03	0.95	1.00	BEIN domain containing 5 [Source:MG Symbol;Acc:MG:1914871]
ENSMUSG00000023829	Slc22a1	-0.18	0.04	0.19	0.36	0.00	0.00	0.00	0.99	1.00	solute carrier family 22 (organic cation transporter), member 1 [Source:MG Symbol;Acc:MG:108111]
ENSMUSG00000022562	Oplah	0.22	0.02	0.11	0.38	0.00	0.00	0.17	0.10	1.00	5-oxoprolinase (ATP-hydrolysing) [Source:MG Symbol;Acc:MG:1922725]
ENSMUSG00000001986	Gria3	-0.63	0.03	0.17	1.22	0.00	0.00	0.10	0.73	1.00	glutamate receptor, ionotropic, AMPA3 (alpha 3) [Source:MG Symbol;Acc:MG:95810]
ENSMUSG00000001604	Tcea3	-0.23	0.26	0.79	0.81	0.00	0.00	0.15	0.45	1.00	transcription elongation factor A (SII), 3 [Source:MG Symbol;Acc:MG:1196908]
ENSMUSG000000045629	Sh3ac2	0.45	0.01	0.07	0.70	0.00	0.00	0.18	0.37	1.00	SH3 domain and tetratricopeptide repeats 2 [Source:MG Symbol;Acc:MG:2444417]
ENSMUSG000000064373	Sepp1	-0.08	0.33	0.94	0.31	0.00	0.00	0.27	0.00	0.93	selenoprotein P, plasma, 1 [Source:MG Symbol;Acc:MG:894288]
ENSMUSG00000009772	Nuak2	-0.20	0.19	0.65	0.63	0.00	0.00	0.02	0.96	1.00	NUAK family, SNF1-like kinase, 2 [Source:MG Symbol;Acc:MG:1921387]
ENSMUSG00000035863	Palm	0.00	1.00	1.00	0.52	0.00	0.00	0.01	0.97	1.00	paralemmin [Source:MG Symbol;Acc:MG:1261814]
ENSMUSG000000032324	Tspan3	-0.13	0.22	0.71	0.39	0.00	0.00	0.11	0.29	1.00	tetraspanin 3 [Source:MG Symbol;Acc:MG:1928098]
ENSMUSG000000060126	Tpt1	-0.10	0.21	0.71	0.16	0.00	0.00	0.06	0.52	1.00	tumor protein, translationally-controlled 1 [Source:MG Symbol;Acc:MG:104890]
ENSMUSG000000031700	Gpt2	-0.19	0.24	0.77	0.60	0.00	0.00	0.12	0.48	1.00	glutamic pyruvate transaminase (alanine aminotransferase) 2 [Source:MG Symbol;Acc:MG:1915391]
ENSMUSG000000020225	Tmbim4	-0.06	0.53	1.00	0.31	0.00	0.00	0.12	0.25	1.00	transmembrane BAX inhibitor motif containing 4 [Source:MG Symbol;Acc:MG:1915462]
ENSMUSG000000026380	Ttcp2b1	-0.21	0.02	0.10	0.33	0.00	0.00	0.04	0.66	1.00	transcription factor CP2-like 1 [Source:MG Symbol;Acc:MG:2444691]
ENSMUSG000000028223	Decr1	-0.08	0.52	1.00	0.43	0.00	0.00	0.16	0.18	1.00	2,4-dienoyl CoA reductase 1, mitochondrial [Source:MG Symbol;Acc:MG:1914710]
ENSMUSG000000063450	Syne2	-0.26	0.02	0.14	0.41	0.00	0.00	0.25	0.03	1.00	synaptic nuclear envelope 2 [Source:MG Symbol;Acc:MG:2449316]
ENSMUSG00000023031	Cela1	-0.40	0.02	0.11	0.66	0.00	0.00	-0.25	0.18	1.00	chymotrypsin-like elastase family, member 1 [Source:MG Symbol;Acc:MG:95314]
ENSMUSG00000022263	Trio	-0.20	0.24	0.76	0.60	0.00	0.00	0.03	0.92	1.00	triple functional domain (PTPRF interacting) [Source:MG Symbol;Acc:MG:1922730]
ENSMUSG00000024694	Keg1	-0.22	0.20	0.68	0.41	0.00	0.00	0.18	0.37	1.00	kidney expressed gene 1 [Source:MG Symbol;Acc:MG:1928492]
ENSMUSG000000064341	mt-Nd1	0.15	0.01	0.06	0.20	0.00	0.00	0.23	0.00	0.00	mitochondrially encoded NADH dehydrogenase 1 [Source:MG Symbol;Acc:MG:101787]
ENSMUSG00000023122	Sult1c2	-0.24	0.02	0.13	0.36	0.00	0.00	-0.21	0.07	1.00	sulfotransferase family, cytosolic, 1C, member 2 [Source:MG Symbol;Acc:MG:1916333]
ENSMUSG00000015243	Absca1	0.09	0.66	1.00	0.65	0.00	0.00	-0.53	0.02	1.00	ATP-binding cassette, sub-family A (ABC1), member 1 [Source:MG Symbol;Acc:MG:99607]
ENSMUSG000000031373	Carb5	-0.23	0.13	0.50	0.54	0.00	0.00	0.05	0.79	1.00	carbonic anhydrase 5b, mitochondrial [Source:MG Symbol;Acc:MG:1926249]
ENSMUSG00000026638	Irf6	0.16	0.11	0.45	0.33	0.00	0.00	0.16	0.16	1.00	interferon regulatory factor 6 [Source:MG Symbol;Acc:MG:1859211]
ENSMUSG000000031451	Gas6	0.34	0.00	0.00	0.28	0.00	0.00	-0.26	0.01	1.00	growth arrest specific 6 [Source:MG Symbol;Acc:MG:95860]
ENSMUSG000000030688	Start10	0.14	0.10	0.42	0.25	0.00	0.00	0.03	0.80	1.00	START domain containing 10 [Source:MG Symbol;Acc:MG:1860093]
ENSMUSG00000024827	Gldc	-0.19	0.37	1.00	0.65	0.00	0.00	0.19	0.33	1.00	glycine decarboxylase [Source:MG Symbol;Acc:MG:1341155]
ENSMUSG00000001999	Bilvr4	-0.08	0.58	1.00	0.49	0.00	0.00	0.05	0.80	1.00	biliverdin reductase A [Source:MG Symbol;Acc:MG:88170]
ENSMUSG000000055320	Tead1	-0.29	0.07	0.31	0.54	0.00	0.00	0.11	0.50	1.00	TEA domain family member 1 [Source:MG Symbol;Acc:MG:101876]
ENSMUSG00000030674	Oprl	-0.35	0.03	0.16	0.56	0.00	0.00	-0.10	0.59	1.00	quinolinate phosphoribosyltransferase [Source:MG Symbol;Acc:MG:1914625]
ENSMUSG00000026971	Ilgb6	-0.21	0.12	0.47	0.43	0.00	0.00	0.05	0.78	1.00	integrin beta 6 [Source:MG Symbol;Acc:MG:96615]
ENSMUSG000000078350	1190007F08Rik	0.30	0.03	0.17	0.49	0.00	0.00	0.00	1.00	1.00	RIKEN cDNA 1190007F08 gene [Source:MG Symbol;Acc:MG:1916109]
ENSMUSG00000050064	Zfp697	-0.41	0.04	0.20	0.70	0.00	0.00	-0.15	0.50	1.00	zinc finger protein 697 [Source:MG Symbol;Acc:MG:2139736]
ENSMUSG000000074639	BC089597	0.09	0.63	1.00	0.47	0.00	0.00	-0.57	0.00	0.52	cDNA sequence BC089597 [Source:MG Symbol;Acc:MG:3583955]
ENSMUSG00000029192	Tbc1d14	-0.10	0.53	1.00	0.49	0.00	0.00	-0.15	0.38	1.00	TBC1 domain family, member 14 [Source:MG Symbol;Acc:MG:1098708]
ENSMUSG000000063229	Ldha	-0.16	0.04	0.19	0.24	0.00	0.00	0.10	0.20	1.00	lactate dehydrogenase A [Source:MG Symbol;Acc:MG:96759]
ENSMUSG00000024222	Fkbp5	0.15	0.49	1.00	0.61	0.00	0.00	0.25	0.26	1.00	FK506 binding protein 5 [Source:MG Symbol;Acc:MG:104670]
ENSMUSG000000070493	Chchd2	-0.19	0.04	0.20	0.22	0.00	0.01	0.12	0.21	1.00	coiled-coil-helix-coiled-coil-helix domain containing 2 [Source:MG Symbol;Acc:MG:1261428]
ENSMUSG00000037972	Snn	-0.33	0.02	0.11	0.46	0.00	0.01	-0.06	0.75	1.00	stannin [Source:MG Symbol;Acc:MG:1278549]
ENSMUSG00000021884	Had1	0.28	0.12	0.48	0.55	0.00	0.01	-0.16	0.45	1.00	2-hydroxyacyl-CoA lyase 1 [Source:MG Symbol;Acc:MG:1929657]
ENSMUSG00000025075	Habp2	-0.27	0.03	0.15	0.41	0.00	0.01	-0.14	0.32	1.00	hyaluronic acid binding protein 2 [Source:MG Symbol;Acc:MG:1196378]
ENSMUSG000000033022	Cdo1	-0.26	0.04	0.20	0.41	0.00	0.01	0.21	0.11	1.00	cysteine dioxygenase 1, cytosolic [Source:MG Symbol;Acc:MG:105925]
ENSMUSG000000036138	Acaa1a	-0.08	0.38	1.00	0.29	0.00	0.01	-0.20	0.06	1.00	acetyl-Coenzyme A acyltransferase 1A [Source:MG Symbol;Acc:MG:2148491]
ENSMUSG00000022437	Samn50	-0.26	0.02	0.13	0.36	0.00	0.01	0.13	0.29	1.00	sorting and assembly machinery component 50 homolog (S. cerevisiae) [Source:MG Symbol;Acc:MG:1915903]
ENSMUSG000000039081	Zfp503	-0.35	0.01	0.09	0.47	0.00	0.01	-0.05	0.75	1.00	zinc finger protein 503 [Source:MG Symbol;Acc:MG:1353644]
ENSMUSG000000034994	Eef2	-0.06	0.21	0.69	0.13	0.00	0.01	0.09	0.19	1.00	eukaryotic translation elongation factor 2 [Source:MG Symbol;Acc:MG:95288]
ENSMUSG000000041697	Cox6a1	-0.09	0.36	1.00	0.24	0.00	0.01	0.17	0.11	1.00	cytochrome c oxidase, subunit VI a, polypeptide 1 [Source:MG Symbol;Acc:MG:103099]
ENSMUSG00000025534	Gusb	0.15	0.31	0.91	0.51	0.00	0.01	0.92	0.00	0.00	glucuronidase, beta [Source:MG Symbol;Acc:MG:95872]
ENSMUSG000000031788	Kifc3	0.42	0.00	0.00	0.32	0.00	0.01	-0.09	0.48	1.00	kinesin family member C3 [Source:MG Symbol;Acc:MG:109202]
ENSMUSG00000024924	Vldlr	0.03	0.81	1.00	0.37	0.00	0.01	0.07	0.58	1.00	very low density lipoprotein receptor [Source:MG Symbol;Acc:MG:98935]
ENSMUSG000000037440	Vnn1	0.74	0.00	0.00	0.48	0.00	0.01	-0.21	0.29	1.00	vanin 1 [Source:MG Symbol;Acc:MG:108395]
ENSMUSG000000063856	Gpx1	0.10	0.25	0.78	0.23	0.00	0.01	0.11	0.27	1.00	glutathione peroxidase 1 [Source:MG Symbol;Acc:MG:104887]
ENSMUSG000000018574	Aacdvl	0.03	0.78	1.00	0.27	0.00	0.01	0.04	0.65	1.00	acyl-Coenzyme A dehydrogenase, very long chain [Source:MG Symbol;Acc:MG:895149]
ENSMUSG000000018501	Ncor1	-0.25	0.02	0.12	0.34	0.00	0.01	0.08	0.50	1.00	nuclear receptor co-repressor 1 [Source:MG Symbol;Acc:MG:1349717]
ENSMUSG000000000594	Gm2a	-0.18	0.10	0.43	0.32	0.00	0.01	0.02	0.90	1.00	Gm2 ganglioside activator protein [Source:MG Symbol;Acc:MG:1916348]
ENSMUSG000000055866	Per2	-0.19	0.37	1.00	0.64	0.00	0.01	0.54	0.01		

ENSMUSG00000070780 Rbm47	-0.29	0.01	0.08	0.32	0.00	0.04	0.33	0.01	1.00	RNA binding motif protein 47 [Source:MGI Symbol;Acc:MGI:2384294]
ENSMUSG00000021214 Akr1c18	0.02	0.93	1.00	0.39	0.00	0.04	0.27	0.10	1.00	aldo-keto reductase family 1, member C18 [Source:MGI Symbol;Acc:MGI:2145420]
ENSMUSG00000035877 Zfx3	-0.38	0.01	0.08	0.43	0.00	0.04	0.17	0.29	1.00	zinc fingers and homeoboxes 3 [Source:MGI Symbol;Acc:MGI:2444772]
ENSMUSG00000021709 Erb2ip	-0.02	0.88	1.00	0.26	0.00	0.05	0.10	0.38	1.00	Erb2 interacting protein [Source:MGI Symbol;Acc:MGI:1890169]
ENSMUSG00000023830 Igf2r	-0.16	0.22	0.71	0.34	0.00	0.05	0.09	0.52	1.00	insulin-like growth factor 2 receptor [Source:MGI Symbol;Acc:MGI:96435]

Sup. Table 1 SET VIII

ENSEMBL	Symbol	CP versus Sal			CP versus CP+DCA			DCA versus Sal			Desc
		logFC	PValue	FDR	logFC	PValue	FDR	logFC	PValue	FDR	
ENSMUSG00000064354	mt-Co2	-0.41	0.00	0.00	0.14	0.00	0.01	0.17	3.9E-05	0.034	mitochondrially encoded cytochrome c oxidase II [Source:MGI Symbol;Acc:MGI:102503]
ENSMUSG00000064345	mt-Nd2	-0.45	0.00	0.00	0.21	0.00	0.00	0.22	3.8E-06	0.005	mitochondrially encoded NADH dehydrogenase 2 [Source:MGI Symbol;Acc:MGI:102500]
ENSMUSG00000064341	mt-Nd1	-0.15	0.01	0.06	0.20	0.00	0.00	0.23	4.3E-08	0.000	mitochondrially encoded NADH dehydrogenase 1 [Source:MGI Symbol;Acc:MGI:101787]
ENSMUSG00000031441	Atp11a	-2.25	0.00	0.00	0.85	0.00	0.00	0.36	1.1E-06	0.002	ATPase, class VI, type 11A [Source:MGI Symbol;Acc:MGI:1354735]
ENSMUSG00000002944	Cd36	-1.24	0.00	0.00	0.73	0.00	0.00	0.46	1.5E-06	0.002	CD36 antigen [Source:MGI Symbol;Acc:MGI:107899]
ENSMUSG00000020839	Tmigd1	0.17	0.11	0.45	0.49	0.00	0.00	0.52	3.3E-06	0.005	transmembrane and immunoglobulin domain containing 1 [Source:MGI Symbol;Acc:MGI:1913851]
ENSMUSG00000042410	Agps	-1.32	0.00	0.00	0.36	0.00	0.01	0.54	1.2E-06	0.002	alkylglycerone phosphate synthase [Source:MGI Symbol;Acc:MGI:2443065]
ENSMUSG00000041698	Slco1a1	-1.59	0.00	0.00	0.90	0.00	0.00	0.59	6.1E-06	0.007	solute carrier organic anion transporter family, member 1a1 [Source:MGI Symbol;Acc:MGI:1351891]
ENSMUSG00000034875	Nudt19	-1.44	0.00	0.00	0.58	0.00	0.00	0.66	1.0E-05	0.011	nudix (nucleoside diphosphate linked moiety X)-type motif 19 [Source:MGI Symbol;Acc:MGI:94203]
ENSMUSG00000092341	Malat1	1.09	0.00	0.00	-0.11	0.20	1.00	0.66	2.8E-16	0.000	metastasis associated lung adenocarcinoma transcript 1 (non-coding RNA) [Source:MGI Symbol;Acc:MGI:1919539]
ENSMUSG00000097509	B230322F03RIK	-1.31	0.00	0.00	0.51	0.00	0.05	0.68	9.8E-06	0.011	MCG147051 [Source:UniProtKB/TrEMBL;Acc:Q8BR17]
ENSMUSG00000080950	Gm7278	-0.40	0.11	0.45	0.09	0.73	1.00	0.85	5.0E-05	0.041	predicted gene 7278 [Source:MGI Symbol;Acc:MGI:3645261]
ENSMUSG00000030929	Eri2	-1.77	0.00	0.00	0.88	0.00	0.00	0.87	7.0E-13	0.000	exoribonuclease 2 [Source:MGI Symbol;Acc:MGI:1918401]
ENSMUSG00000030935	Acsm3	-1.98	0.00	0.00	0.96	0.00	0.00	0.89	1.4E-13	0.000	acyl-CoA synthetase medium-chain family member 3 [Source:MGI Symbol;Acc:MGI:99538]
ENSMUSG00000011179	Odc1	-0.39	0.01	0.06	0.10	0.17	1.00	0.89	2.6E-07	0.001	ornithine decarboxylase, structural 1 [Source:MGI Symbol;Acc:MGI:97402]
ENSMUSG00000021670	Hmgcr	0.17	0.37	1.00	-0.05	0.77	1.00	0.90	4.9E-06	0.006	3-hydroxy-3-methylglutaryl-Coenzyme A reductase [Source:MGI Symbol;Acc:MGI:96159]
ENSMUSG00000025534	Gusb	0.15	0.31	0.91	0.51	0.00	0.01	0.92	7.3E-09	0.000	glucuronidase, beta [Source:MGI Symbol;Acc:MGI:95872]
ENSMUSG00000080845	Gm9115	-0.41	0.15	0.54	0.09	0.78	1.00	0.94	3.1E-05	0.030	predicted gene 9115 [Source:MGI Symbol;Acc:MGI:3648181]
ENSMUSG00000074715	Ccl28	-0.03	0.94	1.00	0.99	0.00	0.02	1.40	1.7E-12	0.000	chemokine (C-C motif) ligand 28 [Source:MGI Symbol;Acc:MGI:1861731]

Supplementary Table 2. Significantly enriched Gene Ontology and KEGG pathways derived from genes sets defined in Figure 6. Count, number of genes in gene set present in GO group; %, percent of genes in gene set present in GO group; P Value: comparison of gene set to population (all mouse genes) $P < 0.05$ cut-off; Fold Enrichment: proportion of the GO group in the gene set compared to the population (all mouse genes), FDR: false discovery rate, the probability that a gene set represents a false positive finding. $FDR < 0.25$ cut-off (gene set likely to be genuinely enriched 3 out of 4 times).

Sup Table 2 SET I - GO GROUPS

Gene Ontology Term	Count	%	PValue	Genes	Fold Enrichment	FDR
GO:0012501:programmed cell death	38	3.8	0.00634947	DPP2, SIVA1, PACS2, TRAF2, UBE2Z, LRDD, ZMAT3, RTKN, EIF5A, TNFSF13, BCL2L1, TNFSF12, DAXX, SCRIB, MAP3K1, BAG2, FAS, TRAF4, GM8172, SGPL1, BCL10, LTBR, 4632434I1RIK, EDA2R, MTAP1S, PEA15A, RPS6, PPP1R13L, DNASE2A, PPM1F, SEMA6A, MEF2D, TRIM35, BAX, PSME3, APAF1, PDCD6IP, GADD45B, NEK6, TRIM39	1.6	10.58
GO:0019725:cellular homeostasis	31	3.1	0.00275624	GLRX3, GM98, FTL1, FTL2, ATOX1, GNA11, TXN1, NHLRC2, FKBP1A, GM10116, GCLM, PRDX1, ATP6V0C, ANXA7, MT2, TRPV4, MT1, NRG1, APEX1, SCO2, EIF2B4, EIF2B5, TXNL1, SMAD7, P2RX4, HIF1A, GNB1, BAX, NAB1, GM12669, STC1, ASNA1, CLN5, ADD1	1.8	4.73
GO:0010941:regulation of cell death	42	4.2	0.0136148	SIVA1, TRAF2, 1110007C09RIK, ZBTB16, BCL2L1, GCLM, PRDX1, SCRIB, SRC, ALDH1A1, SERINC3, RRN3, RPS3A, B230120H23RIK, AGT, PPP2CB, PCSK9, VNN1, FAS, ERCC1, TRAF4, IHH, ANGPTL4, GM8172, BMP4, BCL10, MSH6, KLF10, PEA15A, CSDA, RPS6, PRKCD, HRAS1, NRAS, TRIM35, EI24, HIF1A, BTG1, BAX, MNT, PSME3, APAF1, APBB3	1.5	21.39
GO:0034101:erythrocyte homeostasis	9	0.9	0.00396503	BMP4, MAEA, RPS19, ID2, DYRK3, RPS6, PRDX1, DNASE2A, GM8172, ADD1	3.5	6.74
GO:0051170:nuclear import	9	0.9	0.00874503	GM10184, IPO7, IPO4, IPO5, GM10259, TPR, KPNB1, HNRNPA1, ARAP1, TOB1	3.0	14.29
GO:0051092:positive regulation of NF-kappaB transcrip	6	0.6	0.00766795	BCL10, MTDH, MYD88, TLR2, EDA2R, IKKB	4.7	12.64
GO:0030163:protein catabolic process	44	4.4	0.00418342	CAST, RAD23B, TRAF2, UBE2Z, SAE1, PSMA7, TRIM11, PSMB5, PSMB4, FBXW7, PSMB6, PSMB3, PPP2CB, FBXO6, PCSK9, RBCK1, RNF149, USP14, RPS27A, NFX1, TBL1XR1, SOCS3, RNF19A, DDB1, ENC1, UBE2I, PSMA1, UBE2O, CBLC, PSMC6, PSMC5, KDM2B, PSMC4, KDM2A, PSMC3, PSMC2, UBE2M, PSMC1, WSB2, USP47, USP22, RNF19B, UBB, USP43, HDAC6	1.6	7.10

Sup Table 2 SET II & SET III - GO GROUPS

Gene Ontology Term	Count	%	PValue	Genes	Fold Enrichment	FDR
GO:0006754:ATP biosynthetic process	15	1.4	1.12E-04	ATP5E, LDHD, ATP10D, ATP11C, GM10221, ATP5G1, ATP6V1B1, GM10231, ATP6V1A, ATP6V1C2, ATP9B, ATP6V1E1, GM12231, ATP5L, ATP5H, ATP8A1	3.4	0.198
GO:0015986:ATP synthesis coupled proton transport	10	0.9	1.17E-04	ATP6V1C2, ATP5E, ATP6V1A, ATP6V1E1, GM12231, ATP5L, GM10221, ATP5G1, ATP6V1B1, ATP5H, GM10231	5.0	0.205
GO:0042157:lipoprotein metabolic process	13	1.2	7.14E-04	ATG10, PIGQ, ALG9, RABGGTA, CWH43, PIGK, APOB, APOE, PIGG, ATG7, DPM1, PIGB, APOM	3.2	1.248
GO:0005996:monosaccharide metabolic process	23	2.1	6.35E-04	GM2574, GM5138, FN3K, GM10566, PDHB, GALK2, NISCH, GM10293, PPP1R1A, GM10291, GM12286, GYS2, GM3839, MAN2B1, GAPDH, GM10358, GM3272, GPD1, GM3222, GMDS, GM5507, ALDH5A1, PDK3, EPM2A, GM13292, RBKS, PFKM, DLAT, CSGALNACT1, PGM2, GBE1, GM4609, GANC, GAA, GM10284, GM10327, PGK1-RS7, GM2606, SERP1	2.2	1.111
GO:0008104:protein localization	66	6.2	1.07E-04	SEC31B, TLN1, OXA1L, CHMP6, SLC9A2, VPS53, CASK, NBEA, SYNGR1, PEX7, OS9, STXBP5L, KIF13A, APOB, APOE, SRPR, VPS13D, ATG7, TIMM9, DYNC2H1, VPS13B, DNAJC19, COX16, DLG1, SCAMP2, RPH3AL, STXBP4, VTI1A, BCAP31, COPG2, SEC61B, RPAIN, AGTR1A, TOMM20, SIL1, AKAP7, ERC1, SERP1, FRAS1, ARL6IP1, SNX9, STX8, ATG10, LMF1, LRBA, SEC62, CD74, SUFU, NXT2, SFT2D1, TRAM2, EXOC4, SNX27, SNX25, HSPG2, CELSR1, COG5, AKTIP, CADPS2, SCFD2, TOM1L2, MCFD2, FAF1, SNX31, LRP4, SSR3	1.6	0.188
GO:0009063:cellular amino acid catabolic process	9	0.8	0.00795	BCKDK, GM9826, BCKDHB, IDO2, DMGDH, PRODH2, GC5H, DTD1, AUH	3.1	13.086
GO:0006506:GPI anchor biosynthetic process	7	0.7	0.00471	CWH43, PIGK, PIGG, PIGB, DPM1, PIGQ, ALG9	4.3	7.968
GO:0050801:ion homeostasis	28	2.6	0.00467	MYO5A, SLC9A8, SLC9A6, ERBB2, HEXB, SLC9A2, NR3C2, CACNB4, ATP6V1B1, SYPL2, APLP2, CKB, AQP11, APOE, SLC39A5, DLG1, PRKCA, AIFM3, CCDC47, SOD1, TECR, KDR, ATXN1, BSND, TFRC, RHCG, GNAQ, COMMD1	1.8	7.896

Sup Table 2 SET V- GO GROUPS

Gene Ontology Term	Count	%	PValue	Genes	Fold Enrichment	FDR
GO:0006793:phosphorus metabolic process	72	6.7	2.45E-04	CDK19, ATP5E, BCKDK, PDP2, LPAR3, CASK, CLK1, INSR, ADCK1, UQCR11, ATP5L, PRKACB, ATP5H, CHUK, MAP2K6, MAP2K5, PRKCA, TRPM6, BCR, PTPRF, TRPM7, PTPRG, MYO3B, WNK1, WNK2, PRKCE, STK3, MTMR12, MAST3, SPAG9, ATP6V1A, ATP6V1C2, CDKL1, MAPK4, MTMR10, ROR1, PPM1L, CSNK1G3, PRKD3, NRBP2, KALRN, FGR4, ERBB4, ERBB2, PRKDC, ATP5G1, ATP6V1B1, GM10231, CD74, GALK2, STK32B, DUSP15, EGF, CSF1R, FGD4, GPD1, PDK3, EPM2A, PTPRA, MET, TGFB2, GM10221, SOD1, KDR, DUSP1, ATP6V1E1, ULK2, RSR1, GM12231, CIT, PGK1-RS7, IGFBP3, MYLK	1.5	0.431
GO:0006754:ATP biosynthetic process	15	1.4	1.12E-04	ATP5E, LDHD, ATP10D, ATP11C, GM10221, ATP5G1, ATP6V1B1, GM10231, ATP6V1A, ATP6V1C2, ATP9B, ATP6V1E1, GM12231, ATP5L, ATP5H, ATP8A1	3.4	0.198
GO:0015986:ATP synthesis coupled proton transp	10	0.9	1.17E-04	ATP6V1C2, ATP5E, ATP6V1A, ATP6V1E1, GM12231, ATP5L, GM10221, ATP5G1, ATP6V1B1, ATP5H, GM10231	5.0	0.205
GO:0042158:lipoprotein biosynthetic process	12	1.1	1.41E-04	CWH43, PIGK, APOB, ATG10, PIGG, APOE, ATG7, PIGB, DPM1, PIGQ, ALG9, RABGGTA	4.0	0.248
GO:000599:monosaccharide metabolic process	23	2.1	6.35E-04	GM2574, GM5138, FN3K, GM10566, PDHB, GALK2, NISCH, GM10293, PPP1R1A, GM10291, GM12286, GYS2, GM3839, MAN2B1, GAPDH, GM10358, GM3272, GPD1, GM3222, GMDS, GM5507, ALDH5A1, PDK3, EPM2A, GM13292, RBKS, PFKM, DLAT, CSGALNACT1, PGM2, GBE1, GM4609, GANC, GAA, GM10284, GM10327, PGK1-RS7, GM2606, SERP1	2.2	1.111
GO:0008104-protein localization	66	6.2	1.07E-04	SEC31B, TLN1, OXA1L, CHMP6, SLC9A2, VPS53, CASK, NBEA, SYNGR1, PEX7, OS9, STXBP5L, KIF13A, APOB, APOE, SRPR, VPS13D, ATG7, TIMM9, DYNC2H1, VPS13B, DNAJC19, COX16, DLG1, SCAMP2, RPH3AL, STXBP4, VTI1A, BCAP31, COG2, SEC61B, RPAIN, AGTR1A, TOMM20, SIL1, AKAP7, ERC1, SERP1, FRAS1, ARL6IP1, SNX9, STX8, ATG10, LMF1, LRBA, SEC62, CD74, SUFU, NXT2, SFT2D1, TRAM2, EXOC4, SNX27, SNX25, HSPG2, CELSR1, COG5, AKTIP, CADPS2, SCFD2, TOM1L2, MCFD2, FAF1, SNX31, LRP4, SSR3	1.6	0.188
GO:0016054-organic acid catabolic process	12	1.1	0.00401766	BCKDK, ACOT7, GM9826, BCKDHB, IDO2, DMGDH, PRODH2, GCSH, AKR1D1, DTD1, PEX7, AUH	2.7	6.834
GO:0006633-fatty acid biosynthetic process	12	1.1	0.00401766	MYO5A, SCD1, TBXAS1, ELOVL5, MLYCD, FADS1, PRKAG2, ACACA, FADS2, ELOVL6, FADS6, CD74	2.7	6.834
GO:0006506:GPI anchor biosynthetic process	7	0.7	0.00471154	CWH43, PIGK, PIGG, PIGB, DPM1, PIGQ, ALG9	4.3	7.968
GO:0050801:ion homeostasis	28	2.6	0.00466698	MYO5A, SLC9A8, SLC9A6, ERBB2, HEXB, SLC9A2, NR3C2, CACNB4, ATP6V1B1, SYPL2, APLP2, CKB, AQP11, APOE, SLC39A5, DLG1, PRKCA, AIFM3, CCDC47, SOD1, TECR, KDR, ATXN1, BSND, TFRC, RHCG, GNAQ, COMMD1	1.8	7.896

Sup Table 2 SET VI - GO GROUPS

Term	Count	%	PValue	Genes	Fold Enrichment	FDR
GO:0006099:tricarboxylic acid cycle	15	2.1	9.67E-15	DLST, ACO2, ACO1, SUCLG2, SUCLG1, SDHA, SDHB, IDH3G, SDHC, SDHD, IDH2, IDH1, 2610507B1RIK, SUCLA2, MDH1	16.7	1.670E-11
GO:0005996:monosaccharide metabolic process	25	3.4	4.30E-07	GM12033, LDHB, PPARA, PHKB, SLC37A4, ALDOB, OGDH, HIBADH, GALM, UGT1A9, UGT1A8, UGT1A7C, UGT1A6B, UGT1A2, UGT1A5, UGT1A6A, PDHA1, DHTKD1, GAPDH, GPD2, PDK2, GM3200, FBP1, CMAH, GM12537, FUCA1, UGT1A1, CPT1A, PCK1, UGT1A10, PCX, G6PC, MAPK14, PGK1, GM12070, XYLB, MDH1	3.3	7.410E-04
GO:0009165:nucleotide biosynthetic process	22	3.0	4.33E-06	ASPDH, NAMPT, ATP5J2, ATP1B1, ATP5B, ATP5F1, ATP11A, ATP1A1, KMO, ATP5G3, MTHFD1, DHFR, ATP2A2, ADK, ATP9A, ATP5C1, HAAO, ATP5O, ATP5A1, GUCA2B, ATP6V0A4, ATP5J	3.2	7.468E-03
GO:0046942:carboxylic acid transport	17	2.3	1.32E-06	SLC36A1, HNF1A, SLC25A4, SLC6A20A, HTT, SLC7A9, SLC7A13, SLC19A1, SLC6A19, SLC7A7, SLC25A13, SLC6A6, SLC22A4, SLC13A3, SLC22A5, SLC1A1, SLC27A2	4.4	2.285E-03
GO:0006754:ATP biosynthetic process	14	1.9	1.61E-05	ATP5J2, ATP1B1, ATP5B, ATP5F1, ATP11A, ATP1A1, ATP5G3, ATP2A2, ATP9A, ATP5C1, ATP5O, ATP5A1, ATP6V0A4, ATP5J	4.4	2.778E-02
GO:0019395:fatty acid oxidation	8	1.1	2.59E-05	ACOX2, ACOX1, ACADM, MAPK14, BDH2, HSD17B4, PHYH, ACOX3	8.5	4.470E-02
GO:0009074:aromatic amino acid family catabolic process	6	0.8	3.40E-05	HGD, GSTZ1, PAH, AFMID, HPD, FAH	13.9	5.858E-02
GO:0044275:cellular carbohydrate catabolic process	11	1.5	9.89E-05	GM12033, LDHB, GM3200, ALDOB, GM12537, OGDH, HIBADH, G6PC, MIOX, PDHA1, PGK1, DHTKD1, GM12070, GAPDH, MDH1	4.7	1.704E-01
GO:0015986:ATP synthesis coupled proton transport	8	1.1	4.96E-04	ATP5B, ATP5F1, ATP5C1, ATP5O, ATP5A1, ATP6V0A4, ATP5G3, ATP5J	5.5	8.523E-01
GO:0006638:neutral lipid metabolic process	8	1.1	0.00167023	LPL, MOGAT1, G6PC, DGAT2, SLC37A4, SLC22A4, CAT, PCK1	4.5	2.842E+00
GO:0051384:response to glucocorticoid stimulus	6	0.8	6.59E-04	BCKDHA, UGT1A10, UGT1A9, UGT1A8, UGT1A7C, ACADS, UGT1A2, UGT1A6B, UGT1A6A, UGT1A5, SLC9A3, ALDOB, ASL, UGT1A1	8.1	1.131E+00
GO:0006090:pyruvate metabolic process	7	1.0	3.25E-04	GPD2, PCX, G6PC, HTT, ALDOB, FBP1, PCK1	7.2	5.588E-01
GO:0009743:response to carbohydrate stimulus	6	0.8	0.0029756	GLUL, HNF1B, HNF1A, HNF4A, SLC37A4, ALDOB	5.9	5.010E+00
GO:0019674:NAD metabolic process	4	0.5	0.00774242	ASPDH, NAMPT, KMO, MDH1	9.3	1.255E+01
GO:0006796:phosphate metabolic process	48	6.6	0.01397914	PRKCZ, PPP2R3A, UQCRC1, NDUFB8, ATP5B, PTPN22, PINK1, ATP5G3, IGF1R, UQCR10, APP, DCLK3, ATP5O, PRKAA2, PPP3CA, INSR, SIK3, NDUFS1, ATP5J, GPD2, PDK2, PTPRK, PTPRD, SGK2, ATP5F1, PI4KA, GM10222, PIM3, PPA2, GLYCK, CCND1, G6PC, MAP3K15, KSR2, SBF2, UQCRH, PPM1H, MAPK14, DLD, ATP5C1, MTOR, GYK, ATP5A1, PGK1, ATP6V0A4, LRRK2, MERTK, UQCRB	1.4	2.156E+01
GO:0046128:purine ribonucleoside metabolic process	5	0.7	0.01315425	COASY, MAT2A, PANK1, ADK, TPMT	5.3	2.042E+01

Sup Table 2 SET I - KEGG PATHWAYS

Term	Count	%	PValue	Genes	Fold Enrichment	FDR
mmu03010:Ribosome	49	4.9	4.94E-36	RPL18, RPL36A, RPL19, RPL14, GM5786, GM14165, RPL15, GM6311, RPS27L, GM15710, RPS2, SNORA65, RPS3, RPS3A, RPLP0, RPLP1, GM10259, RPL11, GM12922, GM11687, RPS27A, GM10184, GM8730, RPS4X, GM6139, GM8841, RPS19, RPL41, RPS17, RPS14, RPS15, RPS12, RPS13, RPS11, UBB, GM10071, RPL27A, RPL35, RPS15A, RPL39, GM8225, RPS26, RPS28, GM12366, RPL7, GM6576, RPL6, RPL9, RPL8, RPL10A, RPS20, RPL4, RPS24, GM8172, RPSA, RPL24, RPL23A, RPS6, RPS8, RPS7, GM5921, RPL23, RPL13A, GM12918, GM10020, GM4294, GM12091	9.1	6.00E-33
mmu03050:Proteasome	16	1.6	4.80E-08	PSMA7, PSMB5, PSMA1, PSMB4, PSMC6, PSMC5, PSMD13, PSMB6, PSMC4, PSMC3, PSMB3, PSMC2, PSMC1, PSME3, PSMD7, PSMD8	5.6	5.83E-05
mmu04530:Tight junction	21	2.1	1.47E-04	PPP2R1A, OCLN, GNAI2, CLDN6, MYL12B, CSDA, PRKCD, LLGL1, SRC, HRAS1, LLGL2, BC021767, CDC42, NRAS, IGSF5, CTTN, B230120H23RIK, PPP2CB, CLDN1, RRAS, TJP2	2.6	0.178088404
mmu01040:Biosynthesis of unsaturated fatty acids	6	0.6	0.020828315	ACOT9, ACOT2, ACOT1, ACAA1B, ACOT5, HADHA	3.7	22.56668211
mmu04912:GnRH signaling pathway	12	1.2	0.030788927	CDC42, NRAS, ATF4, PTK2B, MAP3K1, PLA2G12A, GNA11, PRKCD, SRC, PRKX, CALM1, HRAS1	2.0	31.61315139
mmu04115:p53 signaling pathway	9	0.9	0.05431061	EI24, ZMAT3, BAX, LRDD, FAS, APAF1, CCNG1, GADD45B, SESN3	2.2	49.26290426
mmu00030:Pentose phosphate pathway	5	0.5	0.067958894	ALDOA, PGLS, H6PD, FBP2, PRPS1	3.2	57.47813781
mmu04722:Neurotrophin signaling pathway	13	1.3	0.091529239	CDC42, NRAS, ATF4, MAP3K1, BAX, YWHAQ, SHC1, MAPKAPK2, IKBKB, PRKCD, ARHGDI2, CALM1, HRAS1	1.7	68.85088912

Sup Table 2 SET II and SET III - KEGG PATHWAYS

Term	Count	%	PValue	Genes	Fold Enrichment	FDR
mmu04010:MAPK signaling pathway	21	6.1	3.77E-06	TRP53, PDGFB, PDGFA, RELA, MAP2K3, RELB, HSPA1A, HSPA1B, NFKB2, DDIT3, DUSP5, DUSP4, TNFRSF1A, JUN, JUND, HSPB1, MAP3K14, DUSP8, MYC, GADD45A, CD14, DUSP6	3.3	0.004
mmu04115:p53 signaling pathway	10	2.9	3.26E-05	TRP53, CDKN1A, BBC3, MDM2, PMAIP1, SFN, PERP, SESN2, GADD45A, GTSE1	6.0	0.037
mmu05215:Prostate cancer	9	2.6	0.001284216	TRP53, CDKN1A, HSP90AA1, PDGFB, PDGFA, RELA, MDM2, NFKBIA, CTNNB1	4.2	1.460
mmu00480:Glutathione metabolism	7	2.0	0.001370367	GSTA1, GSTA2, GSR, GCLC, PGD, G6PDX, MGST1	5.6	1.557
mmu05416:Viral myocarditis	9	2.6	0.001702617	ACTB, H2-K1, ACTG1, EIF4G1, ICAM1, GM12715, GM8399, H2-D1, MYH9, CXADR, ABL2	4.0	1.931
mmu04612:Antigen processing and presentation	8	2.3	0.005791643	H2-K1, CTSL, HSP90AA1, H2-D1, IFI30, HSPA1A, CTSB, HSPA1B, TAPBP	3.7	6.431
mmu04110:Cell cycle	9	2.6	0.011122701	TRP53, CDKN1A, YWHAG, YWHAH, PCNA, MDM2, SFN, GADD45A, MYC	2.9	12.015
mmu04540:Gap junction	7	2.0	0.016377149	PDGFB, GM5620, PDGFA, TUBB2A, TUBB6, TUBA1A, TUBA1B, GM14150, TUBA1C	3.4	17.220

SET V - KEGG PATHWAYS

Term	Count	%	PValue	Genes	Fold Enrichment	FDR
mmu05010:Alzheimer's disease	25	2.3	5.61E-05	ATP5E, GM2574, APH1A, APH1C, GM5138, MME, ATP5G1, GM10566, GM10231, NDUFB2, NDUFS7, UQCR11, GM10293, APOE, GM15429, GM10291, GM12286, NDUFS8, COX6B1, GM3839, PLCB1, GAPDH, GM10358, ATP5H, GM3272, NDUFA2, GM3222, GM5507, GM13292, GM10108, NDUFA1, ITPR2, ATF6, GM4609, GNAQ, NDUFV2, GM12231, GM10284, GM10327, GM2606, CACNA1D, GM13464	2.5	0.068
mmu00500:Starch and sucrose metabolism	9	0.8	6.29E-04	PGM2, GBE1, GANC, ENPP1, ENPP3, GAA, GYS2, UGT2A3, TREH	4.5	0.764
mmu00190:Oxidative phosphorylation	18	1.7	7.57E-04	ATP5E, NDUFA2, ATP5G1, GM10221, ATP6V1B1, NDUFA1, GM10231, NDUFB2, NDUFS7, ATP6V1A, ATP6V1C2, UQCR11, ATP6V1E1, NDUFS8, NDUFV2, GM12231, COX6B1, ATP5L, ATP5H	2.5	0.918
mmu00620:Pyruvate metabolism	8	0.7	0.00661675	ME3, LDHD, ACYP2, ALDH2, ACACA, DLAT, PDHB, ALDH3A2	3.5	7.772
mmu00150:Androgen and estrogen metabolism	7	0.7	0.00858569	HSD3B6, HSD17B12, HSD3B5, HSD11B2, SRD5A1, UGT2A3, AKR1D1	3.8	9.976
mmu05012:Parkinson's disease	15	1.4	0.01490987	ATP5E, NDUFA2, GM10108, ATP5G1, NDUFA1, GM10231, NDUFB2, NDUFS7, UQCR11, NDUFV2, NDUFS8, COX6B1, GM12231, SLC18A1, ATP5H	2.0	16.730
mmu00640:Propanoate metabolism	6	0.6	0.02300693	MLYCD, ALDH2, ACACA, PCCB, PCCA, ALDH3A2	3.6	24.699

SET VI - KEGG PATHWAYS

Term	Count	%	PValue	Genes	Fold Enrichment	FDR
mmu00190:Oxidative phosphorylation	39	5.3	5.61E-18	UQCRC2, NDUFB5, UQCRC1, NDUFB8, NDUFB9, ATP5B, CYC1, COX7B, COX7C, UQCRFS1, COX5B, ATP5G3, UQCR10, NDUFS4, ATP5O, NDUFS2, NDUFS1, ATP5J, NDUFA4, ATP5J2, COX7A2, NDUFA9, NDUFA6, COX8A, ATP5F1, NDUFA10, PPA2, COX6C, NDUFV3, SDHA, SDHB, UQCRH, NDUFV1, SDHC, SDHD, ATP5C1, ATP5A1, ATP6V0A4, UQCRB	5.2	6.79E-15
mmu00280:Valine, leucine and isoleucine degradation	23	3.2	4.83E-16	BCAT1, BCKDHA, ACAA2, ALDH6A1, ACADSB, BCAT2, ACADM, ACADS, HMGCS1, ECHS1, ACAT1, HIBADH, DBT, MCCC2, MUT, ALDH7A1, IVD, MCCC1, OXCT1, DLD, ABAT, HADH, ALDH9A1	8.7	5.33E-13
mmu00020:Citrate cycle (TCA cycle)	19	2.6	2.82E-15	DLST, ACO2, ACO1, SUCLG2, SUCLG1, OGDH, PCK1, SDHA, SDHB, PCX, IDH3G, SDHC, SDHD, DLD, IDH2, IDH1, PDHA1, SUCLA2, MDH1	10.7	3.36E-12
mmu00650:Butanoate metabolism	17	2.3	3.90E-11	ACADS, HMGCS1, ECHS1, ACAT1, ACSM3, ACSM2, ALDH7A1, ACSM1, L2HGDH, OXCT1, ABAT, BDH2, PDHA1, HADH, BDH1, ACSM5, ALDH9A1	8.0	4.72E-08
mmu00071:Fatty acid metabolism	17	2.3	1.29E-09	GCDH, ACOX1, ACAA2, ACADSB, ACADM, ACADS, ECHS1, ACAT1, CPT1A, ACOX3, CYP4A12B, ALDH7A1, ACSL1, CYP4A12A, ADH1, HADH, ALDH9A1	6.6	1.55E-06
mmu00640:Propanoate metabolism	14	1.9	2.72E-09	ALDH6A1, LDHB, ACADM, SUCLG2, SUCLG1, ECHS1, ACSS2, ACAT1, MUT, ALDH7A1, ACSS1, ABAT, SUCLA2, ALDH9A1	8.1	3.30E-06
mmu00380:Tryptophan metabolism	15	2.1	1.81E-08	AADAT, GCDH, DDC, ACMSD, ECHS1, KMO, OGDH, ACAT1, INMT, AFMID, ALDH7A1, HAAO, CAT, HADH, ALDH9A1	6.5	2.19E-05
mmu00620:Pyruvate metabolism	14	1.9	2.26E-07	ME1, LDHB, GRHPR, ACSS2, ACAT1, PCK1, PCX, ALDH7A1, ACSS1, DLD, ACOT12, PDHA1, ALDH9A1, MDH1	6.0	2.73E-04
mmu04260:Cardiac muscle contraction	17	2.3	6.03E-06	UQCRC2, FXDY2, ATP1B1, UQCRC1, COX7A2, COX8A, COX7B, CYC1, COX7C, ATP1A1, UQCRFS1, COX5B, COX6C, UQCR10, ATP2A2, UQCRH, UQCRB	3.8	7.30E-03
mmu03320:PPAR signaling pathway	17	2.3	7.18E-06	ACOX2, ME1, PPARA, LPL, ACOX1, ACADM, DBI, CPT1A, ACOX3, PCK1, CYP4A12B, ACSL1, CYP4A12A, CD36, GYK, SCP2, SLC27A2	3.8	8.69E-03
mmu00630:Glyoxylate and dicarboxylate metabolism	8	1.1	1.37E-05	GLYCTK, MTHFD1, ACO2, ACO1, HAO2, GRHPR, AFMID, MDH1	8.7	0.017
mmu00010:Glycolysis / Gluconeogenesis	15	2.1	2.22E-05	GM12033, LDHB, GM3200, ALDOB, FBP1, GM12537, ACSS2, PCK1, GALM, ALDH7A1, ACSS1, G6PC, ADH1, DLD, PDHA1, GM12070, PGK1, GAPDH, ALDH9A1	3.8	0.027
mmu00260:Glycine, serine and threonine metabolism	10	1.4	5.07E-05	GLYCTK, CHDH, CTH, GATM, DLD, DAO, AGXT2, SARDH, PIPOX, CBS	5.5	0.061
mmu00310:Lysine degradation	11	1.5	7.42E-05	AADAT, GCDH, DLST, ALDH7A1, ECHS1, AASS, OGDH, HADH, ACAT1, PIPOX, ALDH9A1	4.7	0.090
mmu00450:Selenoamino acid metabolism	8	1.1	2.07E-04	CTH, AHCY, MAT2A, GGT1, AHCYL1, AHCYL2, PAPSS2, CBS	6.1	0.250
mmu00330:Arginine and proline metabolism	11	1.5	6.99E-04	LAP3, GLUL, ALDH7A1, ACY1, ASS1, GATM, ALDH4A1, DAO, ASL, ALDH9A1, PRODH	3.6	0.842
mmu00410:beta-Alanine metabolism	7	1.0	0.001138311	ALDH7A1, ACADM, CNDP1, UPB1, ECHS1, ABAT, ALDH9A1	5.5	1.369
mmu00250:Alanine, aspartate and glutamate metabolism	8	1.1	0.001214118	GLUL, ASPA, ASS1, ACY3, ABAT, ALDH4A1, AGXT2, ASL	4.7	1.459
mmu00072:Synthesis and degradation of ketone bodies	5	0.7	0.001671822	OXCT1, HMGCS1, BDH2, BDH1, ACAT1	8.7	2.004
mmu00340:Histidine metabolism	7	1.0	0.002336039	DDC, ALDH7A1, ASPA, CNDP1, ACY3, UROC1, ALDH9A1	4.9	2.790
mmu00770:Pantothenate and CoA biosynthesis	5	0.7	0.008654137	BCAT1, COASY, BCAT2, PANK1, UPB1	5.8	9.983
mmu00053:Ascorbate and aldarate metabolism	5	0.7	0.008654137	UGT1A10, UGT1A9, ALDH7A1, UGT1A8, UGT1A7C, UGT1A2, UGT1A6B, UGT1A6A, UGT1A5, MIOX, UGT2B5, UGT1A1, ALDH9A1	5.8	9.983
mmu00120:Primary bile acid biosynthesis	5	0.7	0.008654137	ACOX2, CYP7B1, AMACR, HSD17B4, SCP2	5.8	9.983
mmu00480:Glutathione metabolism	9	1.2	0.008667034	LAP3, GSS, GPX3, IDH2, GSTZ1, IDH1, GGT1, ANPEP, GSTT2	3.0	9.997
mmu00270:Cysteine and methionine metabolism	7	1.0	0.009936421	LDHB, CTH, AHCY, MAT2A, AHCYL1, AHCYL2, CBS	3.7	11.382