Supplementary Table 1: List of the differential expressed genes (DE) regulated by EPA in BAT (P<0.05, fold change>2, RPKM>0.3).
Transcriptomic and MicroRNA Analyses of Gene Networks Regulated by Eicosapentaenoic Acid in Brown Adipose Tissue of Diet-Induced Obese Mice
Mandana Pahlavani, Nadeeja N. Wijayatunga, Nishan S. Kalupahana, Latha Ramalingam, Preethi H. Gunaratne, Cristian Coarfa, Kimal Rajapakshe, Pratibha Kottapalli, and Naima Moustaid-Moussa. BBA Cell Mol Lipids

	Gene Symbol	RPKM HF	RPKM HF-EPA	Fold change	P value	Gene Name	Protein Name	Uniport ID
1	**Cyp2e1**	2.71	19.13	7.06	0.00	cytochrome P450, family 2, subfamily e, polypeptide 1 [Source:MGI Symbol;Acc:MGI:88607]	cytochrome P450, family 2, subfamily e, polypeptide 1 [Source:MGI Symbol;Acc:MGI:88607]	Q05421;A0A1B0GSV7;Q0PGA0;Q0PGA1
2	**Cish**	19.16	66.55	3.47	0.00	cytokine inducible SH2-containing protein [Source:MGI Symbol;Acc:MGI:103159]	cytokine inducible SH2-containing protein [Source:MGI Symbol;Acc:MGI:103159]	Q62225;E9Q273;E9Q2F4;Q3TD28;Q3TDM7;Q8C3F4
3	**Mt-ts1**	22.34	65.54	2.93	0.01	Mitochondrially Encoded TRNA Serine 1 (UCN) MGI:102475	Mitochondrially Encoded TRNA Serine 1 (UCN) MGI:102475	
4	**Vnn3**	0.32	0.86	2.72	0.03	vanin 3 [Source:MGI Symbol;Acc:MGI:1347055]	vanin 3 [Source:MGI Symbol;Acc:MGI:1347055]	Q9QZ25;Q2T9H5
5	**Ccdc18**	0.55	1.49	2.72	0.00	coiled-coil domain containing 18 [Source:MGI Symbol;Acc:MGI:1922974]	coiled-coil domain containing 18 [Source:MGI Symbol;Acc:MGI:1922974]	Q640L5
6	**Cfd**	279.45	746.38	2.67	0.00	complement factor D (adipsin) [Source:MGI Symbol;Acc:MGI:87931]	complement factor D (adipsin) [Source:MGI Symbol;Acc:MGI:87931]	P03953;B7ZNS9;Q3UP47;Q9Z1T6;A0A087WQI1;A0A087WS78;D3Z5N5;Q3TR41
7	**Gm454**	1.19	3.01	2.54	0.02	predicted gene 454 [Source:MGI Symbol;Acc:MGI:2685300]	predicted gene 454 [Source:MGI Symbol;Acc:MGI:2685300]	
8	**Wrb**	0.64	1.55	2.44	0.00	tryptophan rich basic protein [Source:MGI Symbol;Acc:MGI:2136882]	tryptophan rich basic protein [Source:MGI Symbol;Acc:MGI:2136882]	Q8K0D7;D3Z1B0
9	**Resf1**	2.43	5.86	2.41	0.00	retroelement silencing factor 1 MGI:1914496	retroelement silencing factor 1 MGI:1914496	Q5DTW7;A0A087WP47;A0A087WP74;A0A087WR65;A0A140T8R9;A0A140T8W0;B2KFD0;B2KFD2;Q8CFR7
10	**Igkc**	4.07	9.66	2.38	0.00	immunoglobulin kappa constant [Source:MGI Symbol;Acc:MGI:96495]	immunoglobulin kappa constant [Source:MGI Symbol;Acc:MGI:96495]	A2NHM3;A2P1G9
11	**Eci3**	5.63	13.15	2.34	0.00	enoyl-Coenzyme A delta isomerase 3 [Source:MGI Symbol;Acc:MGI:1916373]	enoyl-Coenzyme A delta isomerase 3 [Source:MGI Symbol;Acc:MGI:1916373]	Q78JN3;E9PY42
12	**Gm14085**	0.38	0.88	2.32	0.03	predicted gene 14085 [Source:MGI Symbol;Acc:MGI:3702173]	predicted gene 14085 [Source:MGI Symbol;Acc:MGI:3702173]	A2AWR5
13	**Gm7160**	2.22	5.14	2.32	0.01	predicted gene 7160 [Source:MGI Symbol;Acc:MGI:3646078]	predicted gene 7160 [Source:MGI Symbol;Acc:MGI:3646078]	

14	**Evi2b**	0.40	0.92	2.30	0.04	ecotropic viral integration site 2 [Source:MGI Symbol;Acc:MGI:5439444]	ecotropic viral integration site 2b [Source:MGI Symbol;Acc:MGI:1890682]	
15	**Gm21975**	0.40	0.92	2.30	0.04	N/A	N/A	
16	**Gm36028**	0.73	1.67	2.30	0.00	predicted gene, 36028 [Source:MGI Symbol;Acc:MGI:5595187]	predicted gene, 36028 [Source:MGI Symbol;Acc:MGI:5595187]	A0A0U1RPM1
17	**Fam131c**	1.41	3.21	2.28	0.05	family with sequence similarity 131, member C [Source:MGI Symbol;Acc:MGI:2685539]	family with sequence similarity 131, member C [Source:MGI Symbol;Acc:MGI:2685539]	A2ADB2
18	**Efcab2**	1.38	3.06	2.21	0.00	EF-hand calcium binding domain 2 [Source:MGI Symbol;Acc:MGI:1915476]	EF-hand calcium binding domain 2 [Source:MGI Symbol;Acc:MGI:1915476]	Q9CQ46
19	**Igfals**	1.01	2.18	2.17	0.00	Insulin Like Growth Factor Binding Protein Acid Labile Subunit MGI:107973	Insulin Like Growth Factor Binding Protein Acid Labile Subunit MGI:107973	P70389;A0A0R4J0S2;Q3KQP3;Q570Z9;Q791Q5
20	**Zfp54**	0.84	1.81	2.16	0.04	zinc finger protein 54 [Source:MGI Symbol;Acc:MGI:99201]	zinc finger protein 54 [Source:MGI Symbol;Acc:MGI:99201]	E9PW05;E9Q520;O88631;Q60917;Q66JT2;Q9QWM9
21	**Klhl6**	0.65	1.39	2.14	0.01	kelch-like 6 [Source:MGI Symbol;Acc:MGI:2686922]	kelch-like 6 [Source:MGI Symbol;Acc:MGI:2686922]	Q8BUL5;A0A0G2JF30;G3UW75;Q8K2Z1;Q6V595;E9QAK3;F6T3Y1
22	**Pard6g**	0.33	0.70	2.13	0.03	par-6 family cell polarity regulator gamma [Source:MGI Symbol;Acc:MGI:2135606]	par-6 family cell polarity regulator gamma [Source:MGI Symbol;Acc:MGI:2135606]	Q9JK84;Q8CBL3;Q8CFJ8
23	**Sgk2**	0.50	1.05	2.11	0.00	serum/glucocorticoid regulated kinase 2 [Source:MGI Symbol;Acc:MGI:1351318]	serum/glucocorticoid regulated kinase 2 [Source:MGI Symbol;Acc:MGI:1351318]	Q9QZS5;Q3UW73;Q9ERE3;A0A087WPW2;A0A087WQS1;A0A087WR70;Q3U907;Q3U9B2;Q3U9H2;Q8VEK1
24	**Pon1**	8.43	17.80	2.11	0.00	paraoxonase 1 [Source:MGI Symbol;Acc:MGI:103295]	paraoxonase 1 [Source:MGI Symbol;Acc:MGI:103295]	P52430;H3BK03;H3BLB8;Q62086;Q8VDG8
25	**Rpl41**	5.48	11.49	2.10	0.01	ribosomal protein L41 [Source:MGI Symbol;Acc:MGI:1915195]	ribosomal protein L41 [Source:MGI Symbol;Acc:MGI:1915195]	P62947;H3BK91
26	**Ociad2**	2.56	5.31	2.08	0.01	OCIA domain containing 2 [Source:MGI Symbol;Acc:MGI:1916377]	OCIA domain containing 2 [Source:MGI Symbol;Acc:MGI:1916377]	Q9D8W7;A0A0J9YU34;A0A0J9YU56;A0A0J9YU93;A0A0J9YUI7

27	**Rasl2-9**	1.90	3.89	2.05	0.00	RAS-like, family 2, locus 9 [Source:MGI Symbol;Acc:MGI:104605]	RAS-like, family 2, locus 9 [Source:MGI Symbol;Acc:MGI:104605]	Q61820;A6H622
28	**Sycp2**	0.41	0.83	2.03	0.01	synaptonemal complex protein 2 [Source:MGI Symbol;Acc:MGI:1933281]	synaptonemal complex protein 2 [Source:MGI Symbol;Acc:MGI:1933281]	Q9CUU3;A2AJW3;Q8CDQ4
29	**Nabp1**	13.28	26.90	2.03	0.00	nucleic acid binding protein 1 [Source:MGI Symbol;Acc:MGI:1923258]	nucleic acid binding protein 1 [Source:MGI Symbol;Acc:MGI:1923258]	Q8BGW5;Q3TJ87;Q8R2P2
30	**Eri2**	7.88	15.83	2.01	0.00	exoribonuclease 2 [Source:MGI Symbol;Acc:MGI:1918401]	exoribonuclease 2 [Source:MGI Symbol;Acc:MGI:1918401]	Q5BKS4;D3YW28;D6RE53;F8WH13;Q6ZPP5;Q9D405
31	**Etnk1**	2.55	1.28	0.50	0.00	ethanolamine kinase 1 [Source:MGI Symbol;Acc:MGI:1922570]	ethanolamine kinase 1 [Source:MGI Symbol;Acc:MGI:1922570]	Q9D4V0;A0A0N4SV10;A0A0N4SVC4;Q8BWV4;Q8BZY0
32	**Tnrc6c**	3.92	1.96	0.50	0.01	trinucleotide repeat containing 6C [Source:MGI Symbol;Acc:MGI:2443265]	trinucleotide repeat containing 6C [Source:MGI Symbol;Acc:MGI:2443265]	Q3UHC0;B1ATC3;B7ZC94
33	**Rnf144a**	5.70	2.84	0.50	0.00	ring finger protein 144A [Source:MGI Symbol;Acc:MGI:1344401]	ring finger protein 144A [Source:MGI Symbol;Acc:MGI:1344401]	Q925F3;A0A1Y7VMM6
34	**Phf2**	6.89	3.44	0.50	0.01	PHD finger protein 2 [Source:MGI Symbol;Acc:MGI:1338034]	PHD finger protein 2 [Source:MGI Symbol;Acc:MGI:1338034]	Q9Z1B8;Q9WTU0;Q3UYU8
35	**Mbnl1**	4.01	2.00	0.50	0.00	muscleblind like splicing factor 1 [Source:MGI Symbol;Acc:MGI:1928482]	muscleblind like splicing factor 1 [Source:MGI Symbol;Acc:MGI:1928482]	Q9JKP5;A0A0A6YVV8;A0A0A6YWB0;A0A0A6YWG1;A0A0A6YWJ5;A0A0A6YX59;A0A0A6YXE3;A0A0A6YXG7;A0A0A6YXL7;A0A0A6YXP3;A0A0A6YXQ4;G3X9Q0;Q3U570;Q3U581;Q4VA08;Q8CAQ1;Q8CHF5
36	**Cmip**	4.42	2.20	0.50	0.00	c-Maf inducing protein [Source:MGI Symbol;Acc:MGI:1921690]	c-Maf inducing protein [Source:MGI Symbol;Acc:MGI:1921690]	Q9D486;B2RY70
37	**Nod2**	0.83	0.42	0.50	0.02	nucleotide-binding oligomerization domain containing 2 [Source:MGI Symbol;Acc:MGI:2429397]	nucleotide-binding oligomerization domain containing 2 [Source:MGI Symbol;Acc:MGI:2429397]	Q8K3Z0;Q2PZA2;Q2PZA3;Q3V2V4;Q3V2V8;Q80SY7;Q80SY9
38	**Mical3**	10.95	5.46	0.50	0.01	microtubule associated monooxygenase, calponin and LIM domain containing 3 [Source:MGI Symbol;Acc:MGI:2442733]	microtubule associated monooxygenase, calponin and LIM domain containing 3 [Source:MGI Symbol;Acc:MGI:2442733]	Q8CJ19;A0A0N4SUZ1;A0A0N4SV64;A0A0N4SVV2;A0A0N4SWA5;A0A140LID8;A0A140LJA5;A0A1D5RM34;A0A1D5RME9;Q5CZW8

39	**Klf2**	40.91	20.39	0.50	0.00	Kruppel-like factor 2 (lung) [Source:MGI Symbol;Acc:MGI:1342772]	Kruppel-like factor 2 (lung) [Source:MGI Symbol;Acc:MGI:1342772]	Q60843;Q3V293
40	**Trim44**	13.29	6.62	0.50	0.00	tripartite motif-containing 44 [Source:MGI Symbol;Acc:MGI:1931835]	tripartite motif-containing 44 [Source:MGI Symbol;Acc:MGI:1931835]	Q9QXA7;A2AGP1;F7B7X2;Q4KMS1
41	**Tnpo1**	3.89	1.94	0.50	0.00	transportin 1 [Source:MGI Symbol;Acc:MGI:2681523]	transportin 1 [Source:MGI Symbol;Acc:MGI:2681523]	Q8BFY9;J3QMX2;Q3TKD0;Q3TQW0;Q3TS78
42	**Tsc22d2**	2.64	1.32	0.50	0.00	TSC22 domain family, member 2 [Source:MGI Symbol;Acc:MGI:1919283]	TSC22 domain family, member 2 [Source:MGI Symbol;Acc:MGI:1919283]	A0A0G2JFL0;A0A0G2JFZ4;A7LCN1;E9Q7M2;Q148S0;Q3U1C5;Q3V1I7;Q6PE86;Q9CVK3
43	**Cdk12**	4.02	2.00	0.50	0.00	cyclin-dependent kinase 12 [Source:MGI Symbol;Acc:MGI:1098802]	cyclin-dependent kinase 12 [Source:MGI Symbol;Acc:MGI:1098802]	Q14AX6;Q3TNY6;Q9CVL4
44	**Spred2**	3.49	1.73	0.50	0.03	sprouty-related, EVH1 domain containing 2 [Source:MGI Symbol;Acc:MGI:2150019]	sprouty-related, EVH1 domain containing 2 [Source:MGI Symbol;Acc:MGI:2150019]	Q924S7;Q5SRF8;Q5SRF9;Q8K2N1
45	**Clic5**	12.65	6.27	0.50	0.04	chloride intracellular channel 5 [Source:MGI Symbol;Acc:MGI:1917912]	chloride intracellular channel 5 [Source:MGI Symbol;Acc:MGI:1917912]	Q9QYB1;Q3U8I1;Q543N5;Q8BXK9;Q9CYD1
46	**Trak1**	16.88	8.37	0.50	0.00	trafficking protein, kinesin binding 1 [Source:MGI Symbol;Acc:MGI:1914345]	trafficking protein, kinesin binding 1 [Source:MGI Symbol;Acc:MGI:1914345]	Q6PD31;A0A1B0GRL4;A0A1B0GRP1;A0A1B0GRQ7;A0A1B0GRS7;A0A1B0GS60;A0A1B0GSC9;A0A1B0GSP3;A0A1B0GSQ2;A2VDH1;Q3TM26;Q63ZV1;Q80VE1;Q8BWK8
47	**Kdm8**	0.85	0.42	0.50	0.01	lysine (K)-specific demethylase 8 [Source:MGI Symbol;Acc:MGI:1924285]	lysine (K)-specific demethylase 8 [Source:MGI Symbol;Acc:MGI:1924285]	Q9CXT6;D3YUV8
48	**Fzd8**	2.26	1.12	0.50	0.02	frizzled class receptor 8 [Source:MGI Symbol;Acc:MGI:108460]	frizzled class receptor 8 [Source:MGI Symbol;Acc:MGI:108460]	Q61091
49	**Shtn 1**	6.45	3.20	0.50	0.01	Shootin 1 MGI:1918903	Shootin 1 MGI:1918903	
50	**Rtn4rl1**	1.43	0.71	0.50	0.00	reticulon 4 receptor-like 1 [Source:MGI Symbol;Acc:MGI:2661375]	reticulon 4 receptor-like 1 [Source:MGI Symbol;Acc:MGI:2661375]	Q8K0S5
51	**Col5a1**	3.80	1.88	0.49	0.00	collagen, type V, alpha 1 [Source:MGI Symbol;Acc:MGI:88457]	collagen, type V, alpha 1 [Source:MGI Symbol;Acc:MGI:88457]	O88207;A3KGE7;B1AWB9

52	**Slc22a23**	2.35	1.16	0.49	0.01	solute carrier family 22, member 23 [Source:MGI Symbol;Acc:MGI:1920352]	solute carrier family 22, member 23 [Source:MGI Symbol;Acc:MGI:1920352]	Q3UHH2;F7AWS1;F7BP73
53	**Zbtb4**	7.35	3.64	0.49	0.01	zinc finger and BTB domain containing 4 [Source:MGI Symbol;Acc:MGI:1922830]	zinc finger and BTB domain containing 4 [Source:MGI Symbol;Acc:MGI:1922830]	Q5F293;B0QZJ2;B0QZJ3;Q14DI5;Q5F295;Q5F296;Q9D774
54	**Gm5486**	2.19	1.08	0.49	0.00	predicted gene 5486 [Source:MGI Symbol;Acc:MGI:3647871]	predicted gene 5486 [Source:MGI Symbol;Acc:MGI:3647871]	Q3USZ0
55	**Notch1**	9.43	4.66	0.49	0.01	notch 1 [Source:MGI Symbol;Acc:MGI:97363]	notch 1 [Source:MGI Symbol;Acc:MGI:97363]	Q01705;A2AIX5;Q8BY39
56	**D17Wsu92e**	25.97	12.82	0.49	0.01	DNA segment, Chr 17, Wayne State University 92, expressed [Source:MGI Symbol;Acc:MGI:106281]	DNA segment, Chr 17, Wayne State University 92, expressed [Source:MGI Symbol;Acc:MGI:106281]	Q3TT38;B2KF52;B2KF54
57	**Gm4466**	1.26	0.62	0.49	0.01	predicted gene 4466 [Source:MGI Symbol;Acc:MGI:3782650]	predicted gene 4466 [Source:MGI Symbol;Acc:MGI:3782650]	
58	**Ube2h**	16.33	8.06	0.49	0.02	ubiquitin-conjugating enzyme E2H [Source:MGI Symbol;Acc:MGI:104632]	ubiquitin-conjugating enzyme E2H [Source:MGI Symbol;Acc:MGI:104632]	P62257;E9Q3U1;Q3TTE3;Q3V2N4
59	**Map3k1**	3.30	1.63	0.49	0.00	mitogen-activated protein kinase kinase kinase 1 [Source:MGI Symbol;Acc:MGI:1346872]	mitogen-activated protein kinase kinase kinase 1 [Source:MGI Symbol;Acc:MGI:1346872]	P53349;D3YVX9;F8VQ72
60	**Limd1**	3.42	1.69	0.49	0.00	LIM domains containing 1 [Source:MGI Symbol;Acc:MGI:1352502]	LIM domains containing 1 [Source:MGI Symbol;Acc:MGI:1352502]	Q9QXD8;A0A1L1SUR8;Q8VEE1;Q3TVW6;Q8BVZ6
61	**Iqce**	2.65	1.31	0.49	0.00	IQ motif containing E [Source:MGI Symbol;Acc:MGI:1921489]	IQ motif containing E [Source:MGI Symbol;Acc:MGI:1921489]	
62	**Gm29681**	4.55	2.24	0.49	0.00	predicted gene, 29681 [Source:MGI Symbol;Acc:MGI:5588840]	predicted gene, 29681 [Source:MGI Symbol;Acc:MGI:5588840]	
63	**Jund**	64.85	31.95	0.49	0.00	jun D proto-oncogene [Source:MGI Symbol;Acc:MGI:96648]	jun D proto-oncogene [Source:MGI Symbol;Acc:MGI:96648]	P15066;Q52L49
64	**LOC102631730**	11.34	5.58	0.49	0.00	N/A	N/A	

65	**Fbxl18**	2.17	1.07	0.49	0.03	F-box and leucine-rich repeat protein 18 [Source:MGI Symbol;Acc:MGI:2444450]	F-box and leucine-rich repeat protein 18 [Source:MGI Symbol;Acc:MGI:2444450]	A4VCH8;E9PYR1;F8VQK6;Q14BU8;Q3U4A0
66	**Ash1l**	2.84	1.40	0.49	0.00	ash1 (absent, small, or homeotic)-like (Drosophila) [Source:MGI Symbol;Acc:MGI:2183158]	ash1 (absent, small, or homeotic)-like (Drosophila) [Source:MGI Symbol;Acc:MGI:2183158]	Q99MY8
67	**Ntng2**	7.73	3.79	0.49	0.00	netrin G2 [Source:MGI Symbol;Acc:MGI:2159341]	netrin G2 [Source:MGI Symbol;Acc:MGI:2159341]	Q8R4F1;A2AKW8;A2AKX2;J3QNA0;V9GX85
68	**Zfp385a**	4.11	2.02	0.49	0.02	zinc finger protein 385A [Source:MGI Symbol;Acc:MGI:1352495]	zinc finger protein 385A [Source:MGI Symbol;Acc:MGI:1352495]	Q8VD12;A0A2R8VHX5
69	**Gse1**	7.45	3.65	0.49	0.04	genetic suppressor element 1, coiled-coil protein [Source:MGI Symbol;Acc:MGI:1098275]	genetic suppressor element 1, coiled-coil protein [Source:MGI Symbol;Acc:MGI:1098275]	Q3U3C9;M0QWG1
70	**Peak1**	2.19	1.07	0.49	0.01	pseudopodium-enriched atypical kinase 1 [Source:MGI Symbol;Acc:MGI:2442366]	pseudopodium-enriched atypical kinase 1 [Source:MGI Symbol;Acc:MGI:2442366]	Q69Z38;A0A087WQ01;A0A087WQ82
71	**Rbm14**	4.52	2.21	0.49	0.00	RNA binding motif protein 14 [Source:MGI Symbol;Acc:MGI:1929092]	RNA binding motif protein 14 [Source:MGI Symbol;Acc:MGI:1929092]	Q8C2Q3;E9QL13;J3QPT3;Q3U6A2
72	**Rhob**	88.85	43.48	0.49	0.00	ras homolog family member B [Source:MGI Symbol;Acc:MGI:107949]	ras homolog family member B [Source:MGI Symbol;Acc:MGI:107949]	P62746;Q3TIC2;Q4FJM5
73	**Serpinb6b**	1.90	0.93	0.49	0.01	serine (or cysteine) peptidase inhibitor, clade B, member 6b [Source:MGI Symbol;Acc:MGI:894688]	serine (or cysteine) peptidase inhibitor, clade B, member 6b [Source:MGI Symbol;Acc:MGI:894688]	A0A1Y7VLD5;F7B9A0;O08804;Q3TAM4
74	**Muc6**	1.33	0.65	0.49	0.00	mucin 6, gastric [Source:MGI Symbol;Acc:MGI:2663233]	mucin 6, gastric [Source:MGI Symbol;Acc:MGI:2663233]	A0A087WR59;F8WIM6;O88714;Q0VAV1
75	**Rap2b**	2.07	1.01	0.49	0.00	RAP2B, member of RAS oncogene family [Source:MGI Symbol;Acc:MGI:1921262]	RAP2B, member of RAS oncogene family [Source:MGI Symbol;Acc:MGI:1921262]	P61226;Q6ZWR0
76	**Klf6**	8.35	4.07	0.49	0.00	Kruppel-like factor 6 [Source:MGI Symbol;Acc:MGI:1346318]	Kruppel-like factor 6 [Source:MGI Symbol;Acc:MGI:1346318]	O08584;A0A1Y7VLA9;Q3U9J1;Q3UGJ1;Q8BPQ2;Q8VDZ7
77	**Tead1**	1.31	0.64	0.49	0.03	TEA domain family member 1 [Source:MGI Symbol;Acc:MGI:101876]	TEA domain family member 1 [Source:MGI Symbol;Acc:MGI:101876]	P30051;E9PVJ5;E9PVS2;E9PZ73;E9Q387;E9QAK6;F6QH05;Q3UFP5;Q3USK5;Q6PAQ8;Q80W05;Q8BR79

78	**Snx29**	1.12	0.55	0.49	0.01	sorting nexin 29 [Source:MGI Symbol;Acc:MGI:1921728]	sorting nexin 29 [Source:MGI Symbol;Acc:MGI:1921728]	Q9D3S3;A0A0R4J1U3;D3YZ90;E9Q6P3;Q3TS66
79	**Nfatc1**	3.41	1.66	0.49	0.01	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 1 [Source:MGI Symbol;Acc:MGI:102469]	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 1 [Source:MGI Symbol;Acc:MGI:102469]	O88942;B5B2N2;B5B2N4;B5B2N5;B5B2N7;Q3UME0;Q6P7T9;Q9DBQ6;Q9JHD3
80	**Lbh**	9.31	4.53	0.49	0.03	limb-bud and heart [Source:MGI Symbol;Acc:MGI:1925139]	limb-bud and heart [Source:MGI Symbol;Acc:MGI:1925139]	Q9CX60;F6UVG6
81	**Ccdc3**	17.29	8.42	0.49	0.00	coiled-coil domain containing 3 [Source:MGI Symbol;Acc:MGI:1921436]	coiled-coil domain containing 3 [Source:MGI Symbol;Acc:MGI:1921436]	Q9D6Y1
82	**Slc4a7**	0.70	0.34	0.48	0.01	solute carrier family 4, sodium bicarbonate cotransporter, member 7 [Source:MGI Symbol;Acc:MGI:2443878]	solute carrier family 4, sodium bicarbonate cotransporter, member 7 [Source:MGI Symbol;Acc:MGI:2443878]	Q8BTT2;A0A286YCE1;A0A286YCH5;A0A286YCQ1;A0A286YCS4;A0A286YCU2;A0A286YCX8;A0A286YD14;A0A286YD46;A0A286YD88;A0A286YDA9;A0A286YDB4;A0A286YDJ7;A0A286YDK8;A0A286YDR1;A0A286YDX4;A0A286YDZ8;A0A286YED8;D3Y272;D3Y273;E3UVT8;E3UVT9;F8VQC9;H6WZ45;H6WZF5;I1VGT4;I1VGT5;I1VGT6;J7H931;J9RDH0;J9RV59;J9RZB2;J9S4N6;J9S7F7;Q8BWZ4;Q9JL09;U3RF68;U3RKD2
83	**Slc24a3**	14.45	7.00	0.48	0.01	solute carrier family 24 (sodium/potassium/calcium exchanger), member 3 [Source:MGI Symbol;Acc:MGI:2137513]	solute carrier family 24 (sodium/potassium/calcium exchanger), member 3 [Source:MGI Symbol;Acc:MGI:2137513]	Q99PD7;Q8VD29
84	**Enc1**	3.86	1.87	0.48	0.02	ectodermal-neural cortex 1 [Source:MGI Symbol;Acc:MGI:109610]	ectodermal-neural cortex 1 [Source:MGI Symbol;Acc:MGI:109610]	O35709;Q8BRG4
85	**Fnbp1**	9.44	4.58	0.48	0.01	formin binding protein 1 [Source:MGI Symbol;Acc:MGI:109606]	formin binding protein 1 [Source:MGI Symbol;Acc:MGI:109606]	Q80TY0;A0A0A6YWT1;A2AQ39;A2AQ41;A2AQ42;A2AQ43;A2AQ44;A2AQ45;A2AQ47;F6VVN1;Q3UF06;Q61053
86	**Ctrl**	0.87	0.42	0.48	0.05	chymotrypsin-like [Source:MGI Symbol;Acc:MGI:88558]	chymotrypsin-like [Source:MGI Symbol;Acc:MGI:88558]	Q9D7P8;Q9D960;Q9DC82;Q9ER05;Q9CR35
87	**Gm4549**	13.42	6.50	0.48	0.00	predicted gene 4549 [Source:MGI Symbol;Acc:MGI:3782733]	predicted gene 4549 [Source:MGI Symbol;Acc:MGI:3782733]	
88	**Slc39a11**	1.38	0.67	0.48	0.01	solute carrier family 39 (metal ion transporter), member 11 [Source:MGI Symbol;Acc:MGI:1917056]	solute carrier family 39 (metal ion transporter), member 11 [Source:MGI Symbol;Acc:MGI:1917056]	Q8BWY7;B1ARC2;B1ARC3;B1ARC4;B1ARC5

89	**Gm11634**	0.78	0.38	0.48	0.01	predicted gene 11634 [Source:MGI Symbol;Acc:MGI:3650266]	predicted gene 11634 [Source:MGI Symbol;Acc:MGI:3650266]	A0A1B0GR37;A0A1B0GSX1
90	**Gm14149**	3.83	1.85	0.48	0.01	predicted gene 14149 [Source:MGI Symbol;Acc:MGI:3651549]	predicted gene 14149 [Source:MGI Symbol;Acc:MGI:3651549]	Q3ULR8
91	**Atn1**	22.44	10.85	0.48	0.01	atrophin 1 [Source:MGI Symbol;Acc:MGI:104725]	atrophin 1 [Source:MGI Symbol;Acc:MGI:104725]	O35126
92	**Gm11821**	0.90	0.44	0.48	0.05	predicted gene 11821 [Source:MGI Symbol;Acc:MGI:3649777]	predicted gene 11821 [Source:MGI Symbol;Acc:MGI:3649777]	
93	**Nacc2**	4.71	2.27	0.48	0.01	nucleus accumbens associated 2, BEN and BTB (POZ) domain containing [Source:MGI Symbol;Acc:MGI:1915241]	nucleus accumbens associated 2, BEN and BTB (POZ) domain containing [Source:MGI Symbol;Acc:MGI:1915241]	Q9DCM7;A2ARL3;Q8BXX1
94	**Pcolce**	66.57	31.99	0.48	0.00	procollagen C-endopeptidase enhancer protein [Source:MGI Symbol;Acc:MGI:105099]	procollagen C-endopeptidase enhancer protein [Source:MGI Symbol;Acc:MGI:105099]	Q61398;A0A0G2JE29;D3YUE2;D3YWH0;D3YZE3;Q3TX39;Q3UIP2;Q3UN82
95	**Ubiad1**	2.94	1.41	0.48	0.00	UbiA prenyltransferase domain containing 1 [Source:MGI Symbol;Acc:MGI:1918957]	UbiA prenyltransferase domain containing 1 [Source:MGI Symbol;Acc:MGI:1918957]	Q9DC60
96	**Arhgef17**	1.76	0.84	0.48	0.00	Rho guanine nucleotide exchange factor (GEF) 17 [Source:MGI Symbol;Acc:MGI:2673002]	Rho guanine nucleotide exchange factor (GEF) 17 [Source:MGI Symbol;Acc:MGI:2673002]	Q80U35;A0A140LIQ0
97	**Ptch1**	1.40	0.67	0.48	0.01	patched 1 [Source:MGI Symbol;Acc:MGI:105373]	patched 1 [Source:MGI Symbol;Acc:MGI:105373]	Q61115;A0A0A6YVW7;A0A0A6YVX7;A0A0A6YWC4;A0A0A6YWZ4;Q3LG17;Q3TM50;Q3TQB0;Q3UUD4;Q5R1U4;Q5R252;Q5TLE7;Q5TLE8
98	**Pmepa1**	104.41	50.07	0.48	0.00	prostate transmembrane protein, androgen induced 1 [Source:MGI Symbol;Acc:MGI:1929600]	prostate transmembrane protein, androgen induced 1 [Source:MGI Symbol;Acc:MGI:1929600]	Q9D7R2;A2APF4;A2APF5;Q4QRN6;Q6NST6
99	**Gnao1**	18.98	9.09	0.48	0.02	guanine nucleotide binding protein, alpha O [Source:MGI Symbol;Acc:MGI:95775]	guanine nucleotide binding protein, alpha O [Source:MGI Symbol;Acc:MGI:95775]	P18872;D3Z2M7;F6W1B2;F6WC15;F7BLT7;Q543S2
100	**Mid1**	11.25	5.39	0.48	0.00	midline 1 [Source:MGI Symbol;Acc:MGI:1100537]	midline 1 [Source:MGI Symbol;Acc:MGI:1100537]	Q04841;F2Z3Y1;Q3U1C9;O70583;B1AUZ9;B1AV01;Q3TVH5;Q3UXC7;Q6PD02

101	**Srcap**	18.18	8.70	0.48	0.00	Snf2-related CREBBP activator protein [Source:MGI Symbol;Acc:MGI:2444036]	Snf2-related CREBBP activator protein [Source:MGI Symbol;Acc:MGI:2444036]	A0A087WNL7;A0A087WNX7;A0A087WQ44;A0A087WQY5;A0A087WS36;A0A087WSL6;E9Q9V7;Q3U4M6;Q8BKT0;Q8BQA6;Q8BUY7;Q8BV54
102	**Foxo4**	18.36	8.77	0.48	0.01	forkhead box O4 [Source:MGI Symbol;Acc:MGI:1891915]	forkhead box O4 [Source:MGI Symbol;Acc:MGI:1891915]	Q9WVH3;B1AUT2;B1AUT3;Q3TZJ4;Q4KL34
103	**Gpatch2**	3.35	1.60	0.48	0.00	G patch domain containing 2 [Source:MGI Symbol;Acc:MGI:1915019]	G patch domain containing 2 [Source:MGI Symbol;Acc:MGI:1915019]	Q7TQC7;E0CZ29;E9PY25;M0QWF5;M0QWJ1;Q3TIJ8;Q9CSX3;Q9D3E7
104	**Strn**	1.72	0.82	0.48	0.01	striatin, calmodulin binding protein [Source:MGI Symbol;Acc:MGI:1333757]	striatin, calmodulin binding protein [Source:MGI Symbol;Acc:MGI:1333757]	O55106;F6Z700;F8WH41;Q3TT86;Q3UWX9;Q8BKL4
105	**Fyco1**	6.22	2.97	0.48	0.00	FYVE and coiled-coil domain containing 1 [Source:MGI Symbol;Acc:MGI:107277]	FYVE and coiled-coil domain containing 1 [Source:MGI Symbol;Acc:MGI:107277]	Q8VDC1;A0A140T8V9
106	**Zfp532**	5.44	2.59	0.48	0.00	zinc finger protein 532 [Source:MGI Symbol;Acc:MGI:3036282]	zinc finger protein 532 [Source:MGI Symbol;Acc:MGI:3036282]	Q6NXK2;Q3TQ12;Q811G4;S4R1B5;S4R1F4;S4R1F7;S4R1H5;S4R1P1;S4R1U0;S4R2D8;S4R2I9;S4R2M5;S4R2T9
107	**Plpp6**	4.59	2.19	0.48	0.04	Phospholipid Phosphatase 6 MGI:1921661	Phospholipid Phosphatase 6 MGI:1921661	Q9D4F2
108	**1700020D05Rik**	0.68	0.32	0.48	0.05	RIKEN cDNA 1700020D05 gene [Source:MGI Symbol;Acc:MGI:1922805]	RIKEN cDNA 1700020D05 gene [Source:MGI Symbol;Acc:MGI:1922805]	Q99PB1;Q9DA56
109	**Tulp4**	2.59	1.23	0.47	0.01	tubby like protein 4 [Source:MGI Symbol;Acc:MGI:1916092]	tubby like protein 4 [Source:MGI Symbol;Acc:MGI:1916092]	Q9JIL5;D3Z003;F6UMF8;Q3TDP7;Q3UH13;Q69ZK3
110	**C130074G19Rik**	22.40	10.63	0.47	0.00	RIKEN cDNA C130074G19 gene [Source:MGI Symbol;Acc:MGI:2444831]	RIKEN cDNA C130074G19 gene [Source:MGI Symbol;Acc:MGI:2444831]	Q8BGN9
111	**Nbeal1**	1.10	0.52	0.47	0.00	neurobeachin like 1 [Source:MGI Symbol;Acc:MGI:2444343]	neurobeachin like 1 [Source:MGI Symbol;Acc:MGI:2444343]	E9PV03;E9PYP2;F6U6E8;F7BJ98;F7D418;Q7TMN9;Q8BRX5;Q8BS04
112	**Shroom4**	2.69	1.28	0.47	0.01	shroom family member 4 [Source:MGI Symbol;Acc:MGI:2685570]	shroom family member 4 [Source:MGI Symbol;Acc:MGI:2685570]	Q1W617;E9PUX3
113	**Atxn1l**	2.54	1.20	0.47	0.01	ataxin 1-like [Source:MGI Symbol;Acc:MGI:3694797]	ataxin 1-like [Source:MGI Symbol;Acc:MGI:3694797]	P0C7T6;A0A1D5RLP5

114	**Abhd2**	1.10	0.52	0.47	0.04	abhydrolase domain containing 2 [Source:MGI Symbol;Acc:MGI:1914344]	abhydrolase domain containing 2 [Source:MGI Symbol;Acc:MGI:1914344]	Q9QXM0
115	**Chd3**	18.27	8.63	0.47	0.00	chromodomain helicase DNA binding protein 3 [Source:MGI Symbol;Acc:MGI:1344395]	chromodomain helicase DNA binding protein 3 [Source:MGI Symbol;Acc:MGI:1344395]	B0QZH7;B0QZH8;B1AR17;E9Q614;F6V4V3;F7C528;O35327;Q7TML9;Q8BR71;Q8K0T3;A2A8L1;E9PYL1;E9PYU4;Q4QQN1;Q8BL30;Q9CUI4
116	**Auts2**	1.78	0.84	0.47	0.02	autism susceptibility candidate 2 [Source:MGI Symbol;Acc:MGI:1919847]	autism susceptibility candidate 2 [Source:MGI Symbol;Acc:MGI:1919847]	A0A087WPF7;A0A087WSK2;A0A2C9F2I4;E0CZ47;E9PZ86;J3QNT9;Q3UX71;Q6PED7;Q8BZC7;Q8C173;Q8VDM3;Q9CSL7;S4R200
117	**Ppp1r9a**	1.51	0.71	0.47	0.00	protein phosphatase 1, regulatory (inhibitor) subunit 9A [Source:MGI Symbol;Acc:MGI:2442401]	protein phosphatase 1, regulatory (inhibitor) subunit 9A [Source:MGI Symbol;Acc:MGI:2442401]	H3BJA6;H3BJD0;H3BJD6;H3BKE7;H3BKQ7;H3BL28;Q3UUK5;Q3UXW4;Q7TN74;Q7TSA7;Q80TH3;Q80ZL7;Q8BMP0
118	**Casp7**	3.80	1.79	0.47	0.05	caspase 7 [Source:MGI Symbol;Acc:MGI:109383]	caspase 7 [Source:MGI Symbol;Acc:MGI:109383]	P97864;Q4FJQ4;Q8C4M5
119	**Rest**	1.06	0.50	0.47	0.01	RE1-silencing transcription factor [Source:MGI Symbol;Acc:MGI:104897]	RE1-silencing transcription factor [Source:MGI Symbol;Acc:MGI:104897]	Q8VIG1;F8V330;Q60694
120	**Ncoa2**	2.06	0.97	0.47	0.00	nuclear receptor coactivator 2 [Source:MGI Symbol;Acc:MGI:1276533]	nuclear receptor coactivator 2 [Source:MGI Symbol;Acc:MGI:1276533]	Q61026;A6P3E3;D3Z4F6;E9PV80;Q7TPU7;Q8BN74;Q8C961;Q8CAG7;Q8CBM5;Q8CE59
121	**Slc25a44**	9.07	4.27	0.47	0.02	solute carrier family 25, member 44 [Source:MGI Symbol;Acc:MGI:2444391]	solute carrier family 25, member 44 [Source:MGI Symbol;Acc:MGI:2444391]	Q8BGF9;Q05DJ3;Q3TDQ9;Q3TE12;Q3TMC4;Q3TNN4
122	**Hk2**	22.98	10.81	0.47	0.01	hexokinase 2 [Source:MGI Symbol;Acc:MGI:1315197]	hexokinase 2 [Source:MGI Symbol;Acc:MGI:1315197]	Q61762;P28740;E0CZ72;F6RLL5;F8VQ42;Q9D481;O08528;E9Q5B5;E9Q9M6;Q7TMK6;A0A1B0GSU8;A0A1B0GT78;Q3TKK8;Q3UWV9
123	**Dusp10**	12.24	5.75	0.47	0.00	dual specificity phosphatase 10 [Source:MGI Symbol;Acc:MGI:1927070]	dual specificity phosphatase 10 [Source:MGI Symbol;Acc:MGI:1927070]	Q9ESS0;D3Z2S1
124	**Ptger4**	2.94	1.38	0.47	0.02	prostaglandin E receptor 4 (subtype EP4) [Source:MGI Symbol;Acc:MGI:104311]	prostaglandin E receptor 4 (subtype EP4) [Source:MGI Symbol;Acc:MGI:104311]	P32240;Q3UM94;Q8BZK1;Q91VE4
125	**Cox15**	5.54	2.60	0.47	0.01	cytochrome c oxidase assembly protein 15 [Source:MGI Symbol;Acc:MGI:1920112]	cytochrome c oxidase assembly protein 15 [Source:MGI Symbol;Acc:MGI:1920112]	Q8BJ03
126	**Rgp1**	9.17	4.30	0.47	0.01	RAB6A GEF compex partner 1 [Source:MGI Symbol;Acc:MGI:1915956]	RAB6A GEF compex partner 1 [Source:MGI Symbol;Acc:MGI:1915956]	P43137;Q3TV26;Q8C6F9;Q9ERU9;Q3TYW0;Q8BQK6;Q8BHT7;Q3TDM6

127	**Aebp2**	10.34	4.83	0.47	0.00	AE binding protein 2 [Source:MGI Symbol;Acc:MGI:1338038]	AE binding protein 2 [Source:MGI Symbol;Acc:MGI:1338038]	Q9Z248;F6V059;I6L987
128	**Foxj2**	5.02	2.35	0.47	0.02	forkhead box J2 [Source:MGI Symbol;Acc:MGI:1926805]	forkhead box J2 [Source:MGI Symbol;Acc:MGI:1926805]	Q9ES18;A0A0N4SWA4;Q3U3U9
129	**Wscd2**	1.86	0.87	0.47	0.02	WSC domain containing 2 [Source:MGI Symbol;Acc:MGI:2445030]	WSC domain containing 2 [Source:MGI Symbol;Acc:MGI:2445030]	D4PHA7
130	**Slc45a4**	2.37	1.11	0.47	0.02	solute carrier family 45, member 4 [Source:MGI Symbol;Acc:MGI:2146236]	solute carrier family 45, member 4 [Source:MGI Symbol;Acc:MGI:2146236]	Q0P5V9;D3Z0C0;F7BEQ1;Q8CBY6
131	**Syne3**	1.79	0.83	0.47	0.01	spectrin repeat containing, nuclear envelope family member 3 [Source:MGI Symbol;Acc:MGI:2442408]	spectrin repeat containing, nuclear envelope family member 3 [Source:MGI Symbol;Acc:MGI:2442408]	Q4FZC9
132	**Ccdc85a**	4.17	1.94	0.47	0.02	coiled-coil domain containing 85A [Source:MGI Symbol;Acc:MGI:2445069]	coiled-coil domain containing 85A [Source:MGI Symbol;Acc:MGI:2445069]	Q5SP85;E0CX32;F6TRJ8;F7B6W4
133	**Jmy**	1.87	0.87	0.47	0.01	junction-mediating and regulatory protein [Source:MGI Symbol;Acc:MGI:1913096]	junction-mediating and regulatory protein [Source:MGI Symbol;Acc:MGI:1913096]	Q9QXM1;A0A0R4J0V4;A0A1Y7VLC3
134	**Itgav**	0.80	0.37	0.46	0.01	integrin alpha V [Source:MGI Symbol;Acc:MGI:96608]	integrin alpha V [Source:MGI Symbol;Acc:MGI:96608]	P43406;A0A0F7IQ06;A2AKI5;B7ZCI9;F6RWM8;F6W6Q6;Q3U4C8;Q80Y67
135	**Akap13**	4.10	1.90	0.46	0.00	A kinase (PRKA) anchor protein 13 [Source:MGI Symbol;Acc:MGI:2676556]	A kinase (PRKA) anchor protein 13 [Source:MGI Symbol;Acc:MGI:2676556]	E9Q394;A0A140LHG3;A0A140LHQ3;A0A140LID7;A0A140LIX0;A0A140LJJ5;Q3T998;Q3TA34;Q3TR80;Q3TZA8;Q3UZK5;Q8BYV7;Q924X9;Q9D9W9
136	**Cbx6**	2.28	1.06	0.46	0.01	chromobox 6 [Source:MGI Symbol;Acc:MGI:3512628]	chromobox 6 [Source:MGI Symbol;Acc:MGI:3512628]	Q9DBY5;D3Z329;D3Z5F6;Q3UK98;Q9CYM8;F8VQB8;H3BLN6;Q6TKP2;Q6TLW0;Q6TLW1
137	**Tppp**	2.32	1.07	0.46	0.05	tubulin polymerization promoting protein [Source:MGI Symbol;Acc:MGI:1920198]	tubulin polymerization promoting protein [Source:MGI Symbol;Acc:MGI:1920198]	Q7TQD2;Q3URG1
138	**Elmsan1**	3.39	1.57	0.46	0.01	ELM2 and Myb/SANT-like domain containing 1 [Source:MGI Symbol;Acc:MGI:2685106]	ELM2 and Myb/SANT-like domain containing 1 [Source:MGI Symbol;Acc:MGI:2685106]	A0A1Y7VP67;E9Q2I4;Q3U224;Q8BUZ9

139	**Kmt2a**	4.67	2.16	0.46	0.01	lysine (K)-specific methyltransferase 2A [Source:MGI Symbol;Acc:MGI:96995]	lysine (K)-specific methyltransferase 2A [Source:MGI Symbol;Acc:MGI:96995]	P55200;A0A1L1SQS9;D3Z5H5;Q5DTR3;Q80XM0;S4R199;S4R2S5
140	**Fam222b**	2.90	1.34	0.46	0.00	family with sequence similarity 222, member B [Source:MGI Symbol;Acc:MGI:2384939]	family with sequence similarity 222, member B [Source:MGI Symbol;Acc:MGI:2384939]	Q6P539;E9PXL0;Q3V2W6
141	**Gpd1l**	3.53	1.63	0.46	0.00	glycerol-3-phosphate dehydrogenase 1-like [Source:MGI Symbol;Acc:MGI:1289257]	glycerol-3-phosphate dehydrogenase 1-like [Source:MGI Symbol;Acc:MGI:1289257]	Q3ULJ0;B2RSR7;D3Z0L6
142	**Maml2**	1.09	0.50	0.46	0.01	mastermind like 2 (Drosophila) [Source:MGI Symbol;Acc:MGI:2389460]	mastermind like 2 (Drosophila) [Source:MGI Symbol;Acc:MGI:2389460]	E9Q7L5;F6U238;Q6ZPH8;Q7TPU6;Q8BMG4;Q8BYF1
143	**Hif1an**	2.44	1.13	0.46	0.00	hypoxia-inducible factor 1, alpha subunit inhibitor [Source:MGI Symbol;Acc:MGI:2442345]	hypoxia-inducible factor 1, alpha subunit inhibitor [Source:MGI Symbol;Acc:MGI:2442345]	Q8BLR9;Q9D6X3
144	**4933436I20Rik**	12.98	6.00	0.46	0.00	RIKEN cDNA 4933436I20 gene [Source:MGI Symbol;Acc:MGI:1918540]	RIKEN cDNA 4933436I20 gene [Source:MGI Symbol;Acc:MGI:1918540]	
145	**Kdm7a**	1.11	0.51	0.46	0.00	lysine (K)-specific demethylase 7A [Source:MGI Symbol;Acc:MGI:2443388]	lysine (K)-specific demethylase 7A [Source:MGI Symbol;Acc:MGI:2443388]	Q3UWM4;Q3TQA8
146	**Myh9**	45.07	20.80	0.46	0.00	myosin, heavy polypeptide 9, non-muscle [Source:MGI Symbol;Acc:MGI:107717]	myosin, heavy polypeptide 9, non-muscle [Source:MGI Symbol;Acc:MGI:107717]	Q8VDD5;A0A2R8VKI5;A0A2R8W6V7;A2VCK0;F2Z494;O89055;Q14B05;Q3UFT0;Q7TQJ6;Q811J9;Q8BIE2;Q8BIM8;Q99JJ3
147	**Gpd1**	1162.32	536.23	0.46	0.02	glycerol-3-phosphate dehydrogenase 1 (soluble) [Source:MGI Symbol;Acc:MGI:95679]	glycerol-3-phosphate dehydrogenase 1 (soluble) [Source:MGI Symbol;Acc:MGI:95679]	P13707;E0CXN5;Q8CFX1;A2A7A7;A2A7A8;Q3TFM8;Q8BMC8;Q8QZU3
148	**Myo18a**	2.03	0.94	0.46	0.01	myosin XVIIIA [Source:MGI Symbol;Acc:MGI:2667185]	myosin XVIIIA [Source:MGI Symbol;Acc:MGI:2667185]	Q9JMH9;A0A1C7ZN10;B2RRE2;E9PUR2;E9Q0K8;E9Q405;E9QA74;E9QAX2;F6ZGN3;K3W4L0;Q3UIM4;Q6PER1
149	**Per1**	11.80	5.44	0.46	0.00	period circadian clock 1 [Source:MGI Symbol;Acc:MGI:1098283]	period circadian clock 1 [Source:MGI Symbol;Acc:MGI:1098283]	O35973;B0QZN6;E9Q8V5;Q3U378;Q3UFZ7;Q5BJ30;Q6A060;Q8C4K7;Q8CHR1
150	**Rbm15**	3.17	1.46	0.46	0.01	RNA binding motif protein 15 [Source:MGI Symbol;Acc:MGI:2443205]	RNA binding motif protein 15 [Source:MGI Symbol;Acc:MGI:2443205]	Q0VBL3

151	**Hipk1**	10.02	4.61	0.46	0.00	homeodomain interacting protein kinase 1 [Source:MGI Symbol;Acc:MGI:1314873]	homeodomain interacting protein kinase 1 [Source:MGI Symbol;Acc:MGI:1314873]	O88904;A0A0R4J1V6;A0S0D6;A0S0D7;A0S0D8;A0S0D9;A0S0E0;A0S0E1;A0S0E2;A0S0L0;A0S0L1;A0S0L2;A0S0L3;A0S0L4;A0S0L5;Q8C642
152	**Mast4**	1.88	0.87	0.46	0.00	microtubule associated serine/threonine kinase family member 4 [Source:MGI Symbol;Acc:MGI:1918885]	microtubule associated serine/threonine kinase family member 4 [Source:MGI Symbol;Acc:MGI:1918885]	Q811L6;A0A0A6YXG1;E9PWX8;E9Q1M8;E9Q4Q9;E9Q6G0;E9QPR4;F7AIF3;Q62490;Q8BGU6
153	**Zfp516**	1.25	0.57	0.46	0.01	zinc finger protein 516 [Source:MGI Symbol;Acc:MGI:2443957]	zinc finger protein 516 [Source:MGI Symbol;Acc:MGI:2443957]	Q7TSH3;Q8K3C2
154	**Leng8**	44.36	20.38	0.46	0.01	leukocyte receptor cluster (LRC) member 8 [Source:MGI Symbol;Acc:MGI:2142195]	leukocyte receptor cluster (LRC) member 8 [Source:MGI Symbol;Acc:MGI:2142195]	Q8CBY3;D3YTL3;D3YWS8;D3YXV8;D3YY84;D3Z042
155	**Epas1**	61.99	28.48	0.46	0.01	endothelial PAS domain protein 1 [Source:MGI Symbol;Acc:MGI:109169]	endothelial PAS domain protein 1 [Source:MGI Symbol;Acc:MGI:109169]	P97481;Q6PEU2
156	**Mbnl2**	9.07	4.17	0.46	0.01	muscleblind like splicing factor 2 [Source:MGI Symbol;Acc:MGI:2145597]	muscleblind like splicing factor 2 [Source:MGI Symbol;Acc:MGI:2145597]	Q8C181;A0A2I3BRX8;A0A2K6EDM5;D0EX61
157	**Cnnm3**	2.89	1.32	0.46	0.00	cyclin M3 [Source:MGI Symbol;Acc:MGI:2151055]	cyclin M3 [Source:MGI Symbol;Acc:MGI:2151055]	Q32NY4;C6KI94;Q3TTT5
158	**Fignl2**	2.01	0.92	0.46	0.00	fidgetin-like 2 [Source:MGI Symbol;Acc:MGI:3646919]	fidgetin-like 2 [Source:MGI Symbol;Acc:MGI:3646919]	J3QK54
159	**Phf8**	1.18	0.54	0.46	0.00	PHD finger protein 8 [Source:MGI Symbol;Acc:MGI:2444341]	PHD finger protein 8 [Source:MGI Symbol;Acc:MGI:2444341]	
160	**Mpp2**	3.54	1.62	0.46	0.01	membrane protein, palmitoylated 2 (MAGUK p55 subfamily member 2) [Source:MGI Symbol;Acc:MGI:1858257]	membrane protein, palmitoylated 2 (MAGUK p55 subfamily member 2) [Source:MGI Symbol;Acc:MGI:1858257]	O08696;A0A0N4SVY9;A0A0N4SWD2;E9Q7Y0;Q6DI64;Q6P1H7;Q8C7V5;Q922T7;Q9WV34
161	**Ccdc126**	1.29	0.59	0.46	0.01	coiled-coil domain containing 126 [Source:MGI Symbol;Acc:MGI:1889376]	coiled-coil domain containing 126 [Source:MGI Symbol;Acc:MGI:1889376]	Q8BIS8
162	**Acaca**	42.79	19.56	0.46	0.02	acetyl-Coenzyme A carboxylase alpha [Source:MGI Symbol;Acc:MGI:108451]	acetyl-Coenzyme A carboxylase alpha [Source:MGI Symbol;Acc:MGI:108451]	Q5SWU9;A0A0R4J1S9;Q9ESZ5;V9GWR9;V9GWS0;V9GWS1;V9GXY1

163	**Gpsm1**	1.63	0.74	0.46	0.01	G-protein signalling modulator 1 (AGS3-like, C. elegans) [Source:MGI Symbol;Acc:MGI:1915089]	G-protein signalling modulator 1 (AGS3-like, C. elegans) [Source:MGI Symbol;Acc:MGI:1915089]	Q6IR34;A2AIV3;A2AIV4;F6SX81;Q8R0E6
164	**Zhx3**	2.24	1.02	0.46	0.02	zinc fingers and homeoboxes 3 [Source:MGI Symbol;Acc:MGI:2444772]	zinc fingers and homeoboxes 3 [Source:MGI Symbol;Acc:MGI:2444772]	Q8C0Q2;F6V503;H3BIX6;Q3UPQ8
165	**Etv3**	5.16	2.35	0.46	0.01	ets variant 3 [Source:MGI Symbol;Acc:MGI:1350926]	ets variant 3 [Source:MGI Symbol;Acc:MGI:1350926]	Q8R4Z4;D3YVU8;Q3U1H6;Q8BN37
166	**Kremen1**	2.59	1.18	0.46	0.01	kringle containing transmembrane protein 1 [Source:MGI Symbol;Acc:MGI:1933988]	kringle containing transmembrane protein 1 [Source:MGI Symbol;Acc:MGI:1933988]	Q99N43;F6S1T7;Q8BNJ0
167	**Rab5b**	13.17	6.01	0.46	0.01	RAB5B, member RAS oncogene family [Source:MGI Symbol;Acc:MGI:105938]	RAB5B, member RAS oncogene family [Source:MGI Symbol;Acc:MGI:105938]	P61021;B2RPS1;Q0PD56;Q8C458
168	**Zfp652**	4.28	1.95	0.46	0.01	zinc finger protein 652 [Source:MGI Symbol;Acc:MGI:2442221]	zinc finger protein 652 [Source:MGI Symbol;Acc:MGI:2442221]	Q5DU09;F2Z3V9;F2Z443
169	**Arsb**	3.50	1.59	0.46	0.00	arylsulfatase B [Source:MGI Symbol;Acc:MGI:88075]	arylsulfatase B [Source:MGI Symbol;Acc:MGI:88075]	P50429;A0A0R4J138;B2RWQ7;Q9D1I3;Q9Z0K7;A0A0A0MQ72
170	**Vash1**	2.71	1.23	0.45	0.01	vasohibin 1 [Source:MGI Symbol;Acc:MGI:2442543]	vasohibin 1 [Source:MGI Symbol;Acc:MGI:2442543]	Q8C1W1;A0PCF8;Q0VGS1;Q9R0B6;A2ATM9;Q99K04
171	**Lamc3**	1.67	0.76	0.45	0.01	laminin gamma 3 [Source:MGI Symbol;Acc:MGI:1344394]	laminin gamma 3 [Source:MGI Symbol;Acc:MGI:1344394]	Q9R0B6;A2ATM9;Q99K04
172	**Rnr1**	18045.72	8186.14	0.45	0.01	RNA, Ribosomal 45S Cluster 1 MGI:102493	N/A	Q06219;A2AQQ8;Q3TYI4;Q9R1W4
173	**Erf**	10.78	4.89	0.45	0.03	Ets2 repressor factor [Source:MGI Symbol;Acc:MGI:109637]	Ets2 repressor factor [Source:MGI Symbol;Acc:MGI:109637]	P70459;A0A0R4J0I0;D3YXK6;Q8BWY3;J3QNS1;P70199;Q3TDF8;Q3TF02;Q3TL10;Q3U6V5
174	**Nbea**	0.87	0.39	0.45	0.00	neurobeachin [Source:MGI Symbol;Acc:MGI:1347075]	neurobeachin [Source:MGI Symbol;Acc:MGI:1347075]	Q9EPN1;Q6P2L4

175	**Dennd1a**	6.68	3.03	0.45	0.00	DENN/MADD domain containing 1A [Source:MGI Symbol;Acc:MGI:2442794]	DENN/MADD domain containing 1A [Source:MGI Symbol;Acc:MGI:2442794]	Q8K382;A2ALU3;A2AUP6;D6RH88;D6RHL0;D6RHP6;D6RI65;Q8R1W1
176	**Pdk4**	245.08	110.83	0.45	0.01	pyruvate dehydrogenase kinase, isoenzyme 4 [Source:MGI Symbol;Acc:MGI:1351481]	pyruvate dehydrogenase kinase, isoenzyme 4 [Source:MGI Symbol;Acc:MGI:1351481]	Q9JK42;O70571;A0A0N4SW53;Q544J2
177	**Ciita**	0.79	0.36	0.45	0.01	class II transactivator [Source:MGI Symbol;Acc:MGI:108445]	class II transactivator [Source:MGI Symbol;Acc:MGI:108445]	P79621;A0A2R8VHC7;A0A2R8VHL9;A0A2R8W6Z7;Q3KND9;Q3KNE0;Q3TR57;Q3U2F8;Q3U2P0;Q3U5G4;Q3UNW8;Q3UU40;Q8HW99
178	**Wipf1**	2.41	1.09	0.45	0.00	WAS/WASL interacting protein family, member 1 [Source:MGI Symbol;Acc:MGI:2178801]	WAS/WASL interacting protein family, member 1 [Source:MGI Symbol;Acc:MGI:2178801]	Q8K1I7;F6QWW7;F6RQI2;Q3THY1;Q6VNB8;A0A1D5RLV7;B7NZ86;G3UY81;G3UYW1;Q6PE56;Q8CHB9
179	**Wdfy3**	3.78	1.70	0.45	0.00	WD repeat and FYVE domain containing 3 [Source:MGI Symbol;Acc:MGI:1096875]	WD repeat and FYVE domain containing 3 [Source:MGI Symbol;Acc:MGI:1096875]	Q6VNB8;A0A1D5RLV7;B7NZ86;G3UY81;G3UYW1;Q6PE56;Q8CHB9
180	**Slc25a16**	3.93	1.77	0.45	0.03	solute carrier family 25 (mitochondrial carrier, Graves disease autoantigen), member 16 [Source:MGI Symbol;Acc:MGI:1920382]	solute carrier family 25 (mitochondrial carrier, Graves disease autoantigen), member 16 [Source:MGI Symbol;Acc:MGI:1920382]	Q8C0K5;D3YVC9
181	**Zfhx2**	2.61	1.17	0.45	0.02	zinc finger homeobox 2 [Source:MGI Symbol;Acc:MGI:2686934]	zinc finger homeobox 2 [Source:MGI Symbol;Acc:MGI:2686934]	Q2MHN3
182	**4930521O11Rik**	5.95	2.68	0.45	0.00	predicted gene 2916 [Source:MGI Symbol;Acc:MGI:3781094]	predicted gene 2916 [Source:MGI Symbol;Acc:MGI:3781094]	
183	**Kat6a**	3.94	1.77	0.45	0.00	K(lysine) acetyltransferase 6A [Source:MGI Symbol;Acc:MGI:2442415]	K(lysine) acetyltransferase 6A [Source:MGI Symbol;Acc:MGI:2442415]	Q8BZ21;A0PJC5;G3X940;Q3UFW4;Q3UPM9;Q3V1G6;Q8C6L0
184	**Larp4**	3.38	1.52	0.45	0.04	La ribonucleoprotein domain family, member 4 [Source:MGI Symbol;Acc:MGI:2443114]	La ribonucleoprotein domain family, member 4 [Source:MGI Symbol;Acc:MGI:2443114]	Q8BWW4;A0A2R8VHW8;A0A2R8VKL5;A0A2R8W6Y5;E9Q066;G3X9Q6;Q3T9Z3;Q3UT02
185	**Atf6**	2.07	0.93	0.45	0.01	activating transcription factor 6 [Source:MGI Symbol;Acc:MGI:1926157]	activating transcription factor 6 [Source:MGI Symbol;Acc:MGI:1926157]	F6VAN0;Q811K9
186	**Fry**	5.37	2.40	0.45	0.00	FRY microtubule binding protein [Source:MGI Symbol;Acc:MGI:2443895]	FRY microtubule binding protein [Source:MGI Symbol;Acc:MGI:2443895]	E9Q8I9;A0A0J9YTT8;A0A0J9YUP4;A0A0J9YUS4;A0A0J9YVH0;A0A0J9YVI5;Q3TZB0;Q8BIU2;Q8BIX6

187	**Ago1**	2.54	1.14	0.45	0.00	argonaute RISC catalytic subunit 1 [Source:MGI Symbol;Acc:MGI:2446630]	argonaute RISC catalytic subunit 1 [Source:MGI Symbol;Acc:MGI:2446630]	Q8CJG1;A2VDG1;H3BJ70;H3BL59;Q8BJP2
188	**Rnd1**	2.57	1.15	0.45	0.01	Rho family GTPase 1 [Source:MGI Symbol;Acc:MGI:2444878]	Rho family GTPase 1 [Source:MGI Symbol;Acc:MGI:2444878]	Q8BLR7
189	**Nufip2**	4.69	2.10	0.45	0.00	nuclear fragile X mental retardation protein interacting protein 2 [Source:MGI Symbol;Acc:MGI:1915814]	nuclear fragile X mental retardation protein interacting protein 2 [Source:MGI Symbol;Acc:MGI:1915814]	Q5F2E7
190	**Spsb1**	3.41	1.52	0.45	0.04	splA/ryanodine receptor domain and SOCS box containing 1 [Source:MGI Symbol;Acc:MGI:1921896]	splA/ryanodine receptor domain and SOCS box containing 1 [Source:MGI Symbol;Acc:MGI:1921896]	Q9D5L7;A2A7B0;A2A7B1;A2A7B2;A2A7B3;E9Q768
191	**Phactr2**	4.68	2.09	0.45	0.00	phosphatase and actin regulator 2 [Source:MGI Symbol;Acc:MGI:2446138]	phosphatase and actin regulator 2 [Source:MGI Symbol;Acc:MGI:2446138]	A1L3S9;B1AVN9;B1AVP0;F7D4H5;Q3UQ19;Q3UTF8;Q91VK6
192	**Arhgap26**	3.53	1.57	0.45	0.00	Rho GTPase activating protein 26 [Source:MGI Symbol;Acc:MGI:1918552]	Rho GTPase activating protein 26 [Source:MGI Symbol;Acc:MGI:1918552]	Q6ZQ82;A0A087WSU1;B9EJ96;D3Z1X5;E9QAQ3;F6Q7M1;F6XTB7;F7D661;Q3U860;Q8BIY6;Q8C1Q3;Q9D0J3
193	**Crebbp**	4.57	2.04	0.45	0.00	CREB binding protein [Source:MGI Symbol;Acc:MGI:1098280]	CREB binding protein [Source:MGI Symbol;Acc:MGI:1098280]	P45481;A0A0U1RP23;A0A0U1RP46;A0A0U1RPL2;A0A0U1RPQ3;A0A0U1RQB6;F8VPR5;Q3V351;Q6GQV9
194	**Itprip**	0.77	0.34	0.45	0.01	cilia and flagella associated protein 43 [Source:MGI Symbol;Acc:MGI:1289258]	cilia and flagella associated protein 43 [Source:MGI Symbol;Acc:MGI:1289258]	
195	**C1qtnf1**	2.86	1.27	0.44	0.01	C1q and tumor necrosis factor related protein 1 [Source:MGI Symbol;Acc:MGI:1919254]	C1q and tumor necrosis factor related protein 1 [Source:MGI Symbol;Acc:MGI:1919254]	Q9QXP7;A2A4W1;A2A4W2;Q8R1P2
196	**Utrn**	10.66	4.74	0.44	0.00	utrophin [Source:MGI Symbol;Acc:MGI:104631]	utrophin [Source:MGI Symbol;Acc:MGI:104631]	A0A1W2P6H3;A0A1W2P6L4;A0A1W2P7C0;A0A1W2P8A5;A0A1W2P8G5;E9Q6R7;O08614;Q3TR59;Q3UYS4;Q61636;Q6P6L2;Q810I5;Q811C1
197	**Tnfaip3**	0.83	0.37	0.44	0.00	tumor necrosis factor, alpha-induced protein 3 [Source:MGI Symbol;Acc:MGI:1196377]	tumor necrosis factor, alpha-induced protein 3 [Source:MGI Symbol;Acc:MGI:1196377]	Q60769;D3YXE1;D3Z5R6;Q3T9G9;Q3TBB9;Q3U695;Q7TQD1;Q8C2N2
198	**Ccdc6**	3.69	1.64	0.44	0.00	coiled-coil domain containing 6 [Source:MGI Symbol;Acc:MGI:1923801]	coiled-coil domain containing 6 [Source:MGI Symbol;Acc:MGI:1923801]	D3YZP9;F6SXB0;F7B4D5

199	**Osbpl10**	0.77	0.34	0.44	0.04	oxysterol binding protein-like 10 [Source:MGI Symbol;Acc:MGI:1921736]	oxysterol binding protein-like 10 [Source:MGI Symbol;Acc:MGI:1921736]	S4R1M9;A0A0R4J0F9;S4R1G3;S4R1L1;S4R296;S4R2S2
200	**Plk3**	4.23	1.87	0.44	0.02	polo like kinase 3 [Source:MGI Symbol;Acc:MGI:109604]	polo like kinase 3 [Source:MGI Symbol;Acc:MGI:109604]	Q60806;F6V5S5;I6L9A2;Q3U0L5;Q6P571
201	**Ddr2**	0.89	0.40	0.44	0.00	discoidin domain receptor family, member 2 [Source:MGI Symbol;Acc:MGI:1345277]	discoidin domain receptor family, member 2 [Source:MGI Symbol;Acc:MGI:1345277]	Q62371;A0A0A6YXY2
202	**Pitpnm3**	0.93	0.41	0.44	0.00	PITPNM family member 3 [Source:MGI Symbol;Acc:MGI:2685726]	PITPNM family member 3 [Source:MGI Symbol;Acc:MGI:2685726]	Q3UHE1;Q14DP4
203	**Tob2**	32.31	14.25	0.44	0.01	transducer of ERBB2, 2 [Source:MGI Symbol;Acc:MGI:1888525]	transducer of ERBB2, 2 [Source:MGI Symbol;Acc:MGI:1888525]	Q9JM55;A0A2R8W6W6;Q543X9;Q80TA8;Q8BP12;Q9D6D6
204	**Esr1**	0.69	0.31	0.44	0.04	estrogen receptor 1 (alpha) [Source:MGI Symbol;Acc:MGI:1352467]	estrogen receptor 1 (alpha) [Source:MGI Symbol;Acc:MGI:1352467]	P19785;A0A1W7GYW9;A0A1W7GYX1;A0A1W7GYY3;A0A1W7GYY4;B3VQI7;D3Z6V3;E7FJU2;E7FJU3;E7FJU6;Q3UT58;Q3UWN0
205	**Mlxip**	5.88	2.59	0.44	0.02	MLX interacting protein [Source:MGI Symbol;Acc:MGI:2141183]	MLX interacting protein [Source:MGI Symbol;Acc:MGI:2141183]	Q2VPU4;B2RQ56;F6UPM1;G5E8D8;Q3UPW8;Q80TQ0
206	**Tbx5**	2.44	1.07	0.44	0.00	T-box 5 [Source:MGI Symbol;Acc:MGI:102541]	T-box 5 [Source:MGI Symbol;Acc:MGI:102541]	P70326;A0A0J9YTS5;A0A0J9YUZ8;Q5CZX7;Q8BLK4
207	**Prrc2c**	7.07	3.10	0.44	0.01	proline-rich coiled-coil 2C [Source:MGI Symbol;Acc:MGI:1913754]	proline-rich coiled-coil 2C [Source:MGI Symbol;Acc:MGI:1913754]	Q3TLH4;A0A0A0MQ79;S4R209;S4R294;S4R298;S4R2E2;S4R2J9;S4R2L9
208	**Bcl9l**	17.06	7.49	0.44	0.00	B cell CLL/lymphoma 9-like [Source:MGI Symbol;Acc:MGI:1933114]	B cell CLL/lymphoma 9-like [Source:MGI Symbol;Acc:MGI:1933114]	Q67FY2;A0A1W2P7G4;Q99J68
209	**Usp31**	1.15	0.51	0.44	0.01	ubiquitin specific peptidase 31 [Source:MGI Symbol;Acc:MGI:1923429]	ubiquitin specific peptidase 31 [Source:MGI Symbol;Acc:MGI:1923429]	E9Q6Y8;Q3UXX3;Q80TH9;Q3V0C5;A2ALR5;A2ALR8;A2ALR9;A2ALS8;A2ALS9;A2BDP2;B7ZNK5;F6TGT8;F6TH61;F6VSP0;F6VSQ9;F6Z2T3;F7ALR2
210	**Aak1**	2.44	1.07	0.44	0.01	AP2 associated kinase 1 [Source:MGI Symbol;Acc:MGI:1098687]	AP2 associated kinase 1 [Source:MGI Symbol;Acc:MGI:1098687]	
211	**Elovl6**	25.09	10.96	0.44	0.05	ELOVL family member 6, elongation of long chain fatty acids (yeast) [Source:MGI Symbol;Acc:MGI:2156528]	ELOVL family member 6, elongation of long chain fatty acids (yeast) [Source:MGI Symbol;Acc:MGI:2156528]	Q920L5;A0A0G2JFD6;A0A0G2JFE8;A0A0G2JGX5

212	**Gypc**	6.74	2.94	0.44	0.02	glycophorin C [Source:MGI Symbol;Acc:MGI:1098566]	glycophorin C [Source:MGI Symbol;Acc:MGI:1098566]	Q78HU7;F7D1I5;G3UXY6;Q3TRT9
213	**Wdr7**	1.15	0.50	0.43	0.03	WD repeat domain 7 [Source:MGI Symbol;Acc:MGI:1860197]	WD repeat domain 7 [Source:MGI Symbol;Acc:MGI:1860197]	Q920I9;Q05CF1;Q8C711
214	**Adora1**	19.01	8.25	0.43	0.00	adenosine A1 receptor [Source:MGI Symbol;Acc:MGI:99401]	adenosine A1 receptor [Source:MGI Symbol;Acc:MGI:99401]	Q60612;A0A087WRW7;Q3URG8;Q3UYG0;Q546D0;Q6AXD8;Q8CAH1;Q8R0M5;S5RY33
215	**Ebf1**	8.63	3.75	0.43	0.00	early B cell factor 1 [Source:MGI Symbol;Acc:MGI:95275]	early B cell factor 1 [Source:MGI Symbol;Acc:MGI:95275]	Q07802;Q3UTW6;Q5SWK4;Q5SWK5;Q5SWK8;Q8BSM3;Q8C955;Q8CBL7
216	**Tbc1d24**	2.03	0.88	0.43	0.04	TBC1 domain family, member 24 [Source:MGI Symbol;Acc:MGI:2443456]	TBC1 domain family, member 24 [Source:MGI Symbol;Acc:MGI:2443456]	
217	**Mef2d**	30.21	13.09	0.43	0.00	myocyte enhancer factor 2D [Source:MGI Symbol;Acc:MGI:99533]	myocyte enhancer factor 2D [Source:MGI Symbol;Acc:MGI:99533]	Q63943;E9Q5E0;E9QKT0;Q3URR2;Q921S6
218	**Furin**	18.80	8.15	0.43	0.01	furin (paired basic amino acid cleaving enzyme) [Source:MGI Symbol;Acc:MGI:97513]	furin (paired basic amino acid cleaving enzyme) [Source:MGI Symbol;Acc:MGI:97513]	P23188;A0A0U1RQ98;D3YTP7;D3Z401
219	**Mark2**	18.54	8.02	0.43	0.01	MAP/microtubule affinity regulating kinase 2 [Source:MGI Symbol;Acc:MGI:99638]	MAP/microtubule affinity regulating kinase 2 [Source:MGI Symbol;Acc:MGI:99638]	Q05512;A0A0R4J0B1;A0A0R4J227;E9PYX3;E9PZ55;E9Q2G8;E9Q2J6;E9Q8H5;E9Q9N6;E9QMP6;F6UY70;F6Z4Q6;F6ZEX4;F6ZS70;F7A3Q3;F7CRG8;F7CVZ7;Q3T9A3;Q3U3A1;Q3UPZ7;Q571J8
220	**Aff1**	3.37	1.46	0.43	0.00	AF4/FMR2 family, member 1 [Source:MGI Symbol;Acc:MGI:1100819]	AF4/FMR2 family, member 1 [Source:MGI Symbol;Acc:MGI:1100819]	O88573;A3KMF4;B1AVP1;E9Q921;O35233;Q3UP77;Q3UQD9;Q5XM34;Q8CDA0
221	**Heg1**	14.28	6.17	0.43	0.00	heart development protein with EGF-like domains 1 [Source:MGI Symbol;Acc:MGI:1924696]	heart development protein with EGF-like domains 1 [Source:MGI Symbol;Acc:MGI:1924696]	E9Q7X6;E9Q440;Q6DFX1;Q8BRS4
222	**Iffo2**	2.90	1.25	0.43	0.00	intermediate filament family orphan 2 [Source:MGI Symbol;Acc:MGI:2140675]	intermediate filament family orphan 2 [Source:MGI Symbol;Acc:MGI:2140675]	Q8R2V2;B1AZL1
223	**Setd7**	3.34	1.45	0.43	0.01	SET domain containing (lysine methyltransferase) 7 [Source:MGI Symbol;Acc:MGI:1920501]	SET domain containing (lysine methyltransferase) 7 [Source:MGI Symbol;Acc:MGI:1920501]	Q8VHL1

224	**Pik3c2b**	2.30	1.00	0.43	0.00	phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta [Source:MGI Symbol;Acc:MGI:2685045]	phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 beta [Source:MGI Symbol;Acc:MGI:2685045]	A2RSK1;D3Z091;E9QAN8
225	**Itpkb**	20.61	8.90	0.43	0.02	inositol 1,4,5-trisphosphate 3-kinase B [Source:MGI Symbol;Acc:MGI:109235]	inositol 1,4,5-trisphosphate 3-kinase B [Source:MGI Symbol;Acc:MGI:109235]	B2RXC2;Q8BKB2
226	**Bmpr2**	2.34	1.01	0.43	0.00	bone morphogenetic protein receptor, type II (serine/threonine kinase) [Source:MGI Symbol;Acc:MGI:1095407]	bone morphogenetic protein receptor, type II (serine/threonine kinase) [Source:MGI Symbol;Acc:MGI:1095407]	O35607;Q3UER5;Q3UG09;Q3UU71
227	**Rnf122**	1.91	0.82	0.43	0.01	ring finger protein 122 [Source:MGI Symbol;Acc:MGI:1916117]	ring finger protein 122 [Source:MGI Symbol;Acc:MGI:1916117]	Q8BP31;A0A0R4J0G8
228	**Naif1**	1.05	0.45	0.43	0.04	nuclear apoptosis inducing factor 1 [Source:MGI Symbol;Acc:MGI:1918504]	nuclear apoptosis inducing factor 1 [Source:MGI Symbol;Acc:MGI:1918504]	Q6PFD7
229	**Zfp526**	1.77	0.76	0.43	0.03	zinc finger protein 526 [Source:MGI Symbol;Acc:MGI:2445181]	zinc finger protein 526 [Source:MGI Symbol;Acc:MGI:2445181]	Q8BI66
230	**Cbfa2t3**	11.79	5.04	0.43	0.02	core-binding factor, runt domain, alpha subunit 2, translocated to, 3 (human) [Source:MGI Symbol;Acc:MGI:1338013]	core-binding factor, runt domain, alpha subunit 2, translocated to, 3 (human) [Source:MGI Symbol;Acc:MGI:1338013]	O54972;B7ZP57;D3Z3P7;E9QM80;Q3UG41
231	**Zfp316**	1.67	0.72	0.43	0.00	zinc finger protein 316 [Source:MGI Symbol;Acc:MGI:1860402]	zinc finger protein 316 [Source:MGI Symbol;Acc:MGI:1860402]	Q6PGE4;G3XA34;O35483;Q9WVL8
232	**Adrb1**	7.05	3.01	0.43	0.02	adrenergic receptor, beta 1 [Source:MGI Symbol;Acc:MGI:87937]	adrenergic receptor, beta 1 [Source:MGI Symbol;Acc:MGI:87937]	P34971;Q9CRR2;P25962;H9U0Q5;Q3UP63
233	**Helz**	2.02	0.86	0.43	0.00	helicase with zinc finger domain [Source:MGI Symbol;Acc:MGI:1925705]	helicase with zinc finger domain [Source:MGI Symbol;Acc:MGI:1925705]	Q6DFV5;A0A0R4J0Y3;A2AAU3;A2AAU5;Q6PAR9
234	**Dvl3**	7.55	3.22	0.43	0.02	dishevelled segment polarity protein 3 [Source:MGI Symbol;Acc:MGI:108100]	dishevelled segment polarity protein 3 [Source:MGI Symbol;Acc:MGI:108100]	Q61062;E9Q150;E9Q967;Q571N4
235	**Sash1**	4.03	1.72	0.43	0.01	SAM and SH3 domain containing 1 [Source:MGI Symbol;Acc:MGI:1917347]	SAM and SH3 domain containing 1 [Source:MGI Symbol;Acc:MGI:1917347]	P59808;A0A1D5RM71;A0A1D5RMH4;F8VQK5;Q6ZQ46;Q8BRY6

236	**Map3k20**	2.93	1.25	0.43	0.00	Mitogen-Activated Protein Kinase Kinase Kinase 20 MGI:2443258	Mitogen-Activated Protein Kinase Kinase Kinase 20 MGI:2443258	Q9ESL4;A2ASW6;Q3TRG2;Q8BUD3
237	**Clec2d**	6.11	2.60	0.43	0.04	C-type lectin domain family 2, member d [Source:MGI Symbol;Acc:MGI:2135589]	C-type lectin domain family 2, member d [Source:MGI Symbol;Acc:MGI:2135589]	Q91V08;F5BFH0
238	**Rnf144b**	1.60	0.68	0.43	0.00	ring finger protein 144B [Source:MGI Symbol;Acc:MGI:2384986]	ring finger protein 144B [Source:MGI Symbol;Acc:MGI:2384986]	Q8BKD6
239	**Clip2**	7.97	3.39	0.43	0.01	CAP-GLY domain containing linker protein 2 [Source:MGI Symbol;Acc:MGI:1313136]	CAP-GLY domain containing linker protein 2 [Source:MGI Symbol;Acc:MGI:1313136]	Q9Z0H8
240	**Gm33698**	7.98	3.38	0.42	0.00	N/A	N/A	
241	**Rgma**	4.32	1.83	0.42	0.01	repulsive guidance molecule family member A [Source:MGI Symbol;Acc:MGI:2679262]	repulsive guidance molecule family member A [Source:MGI Symbol;Acc:MGI:2679262]	Q6PCX7;D3Z4W0;Q8C4C4
242	**Prdm2**	8.75	3.70	0.42	0.00	PR domain containing 2, with ZNF domain [Source:MGI Symbol;Acc:MGI:107628]	PR domain containing 2, with ZNF domain [Source:MGI Symbol;Acc:MGI:107628]	A2A7B5;A2A7B7;B9EKQ3;Q3UWU4;Q80VF3;Q8C2W5
243	**Samd4b**	5.47	2.32	0.42	0.01	sterile alpha motif domain containing 4B [Source:MGI Symbol;Acc:MGI:2448542]	sterile alpha motif domain containing 4B [Source:MGI Symbol;Acc:MGI:2448542]	Q80XS6;A0A140LI35;A0A140LIW4;G5E8A7
244	**Dip2c**	1.01	0.43	0.42	0.02	disco interacting protein 2 homolog C [Source:MGI Symbol;Acc:MGI:1920179]	disco interacting protein 2 homolog C [Source:MGI Symbol;Acc:MGI:1920179]	A0A1Y7VMZ0;B2RQ71;B7ZMZ7;E9PWR4;Q5EBR0;Q69ZV2;Q6NY04;Q6PGL8;Q8CBE5;Q9D6I2
245	**Plec**	17.17	7.27	0.42	0.00	plectin [Source:MGI Symbol;Acc:MGI:1277961]	plectin [Source:MGI Symbol;Acc:MGI:1277961]	Q9QXS1;A0A0B4J1M3;A0A0B4J1M7;A0A0R4J218;A0A0R4J221;A0A0R4J223;E9PW24;E9Q3W4;E9Q9J6;Q05CR3;Q499F9;Q6S385;Q6S387;Q6S388;Q6S390;Q6S392;Q6S393;Q8C8S5;Q923J2
246	**Bahcc1**	3.45	1.46	0.42	0.00	BAH domain and coiled-coil containing 1 [Source:MGI Symbol;Acc:MGI:2679272]	BAH domain and coiled-coil containing 1 [Source:MGI Symbol;Acc:MGI:2679272]	Q3UHR0;E9Q7G4;Q3V361
247	**Xpr1**	1.36	0.57	0.42	0.01	xenotropic and polytropic retrovirus receptor 1 [Source:MGI Symbol;Acc:MGI:97932]	xenotropic and polytropic retrovirus receptor 1 [Source:MGI Symbol;Acc:MGI:97932]	Q9R031;Q9Z0U0;D3Z2B4;E2J868;E2J876;E3VX18;E3VX19;E3VX20;Q8BHF9
248	**Spen**	7.34	3.10	0.42	0.01	SPEN homolog, transcriptional regulator (Drosophila) [Source:MGI Symbol;Acc:MGI:1891706]	SPEN homolog, transcriptional regulator (Drosophila) [Source:MGI Symbol;Acc:MGI:1891706]	Q62504;A2ADB0;A2ADB1;Q3UV27;Q0VBL3

249	**Pip4k2b**	2.99	1.26	0.42	0.01	phosphatidylinositol-5-phosphate 4-kinase, type II, beta [Source:MGI Symbol;Acc:MGI:1934234]	phosphatidylinositol-5-phosphate 4-kinase, type II, beta [Source:MGI Symbol;Acc:MGI:1934234]	O70172;A2ASS3;F6RJE8;Q544E3;Q9CZS7;Q80XI4;Q3UJ95;Q91XU2
250	**Plxna1**	7.84	3.30	0.42	0.00	plexin A1 [Source:MGI Symbol;Acc:MGI:107685]	plexin A1 [Source:MGI Symbol;Acc:MGI:107685]	P70206;A0A0N4SUU1;A0A0N4SW74;Q3U3W7
251	**Thy1**	2.88	1.21	0.42	0.01	thymus cell antigen 1, theta [Source:MGI Symbol;Acc:MGI:98747]	thymus cell antigen 1, theta [Source:MGI Symbol;Acc:MGI:98747]	P01831;A0A1L1SRS7;A0A1L1ST40;A0A1L1SUX8;Q53YX2
252	**Gm34003**	5.02	2.11	0.42	0.00	predicted gene 34003[Source:MGI Symbol;Acc:MGI:5593162]	predicted gene 34003[Source:MGI Symbol;Acc:MGI:5593162]	
253	**Diap2**	2.18	0.92	0.42	0.00	Diaphanous Related Formin 2 MGI:1858500	Diaphanous Related Formin 2 MGI:1858500	O70566;E9Q4U7;K4PWM5;Q3U4Y4;Q496P2;Q6W4W7;Q8C414
254	**Foxo1**	4.65	1.95	0.42	0.00	forkhead box O1 [Source:MGI Symbol;Acc:MGI:1890077]	forkhead box O1 [Source:MGI Symbol;Acc:MGI:1890077]	Q9R1E0;Q8BPP2;Q8BRS7;Q8CA93;Q9WVH5
255	**Sowahc**	2.70	1.13	0.42	0.01	sosondowah ankyrin repeat domain family member C [Source:MGI Symbol;Acc:MGI:3606051]	sosondowah ankyrin repeat domain family member C [Source:MGI Symbol;Acc:MGI:3606051]	Q8C0J6
256	**Dag1**	13.05	5.45	0.42	0.01	dystroglycan 1 [Source:MGI Symbol;Acc:MGI:101864]	dystroglycan 1 [Source:MGI Symbol;Acc:MGI:101864]	Q62165;A0A0A6YW41;A0A0A6YXB6;Q544G5;Q8BPJ7;Q8CBE6
257	**Sntb1**	2.25	0.94	0.42	0.01	syntrophin, basic 1 [Source:MGI Symbol;Acc:MGI:101781]	syntrophin, basic 1 [Source:MGI Symbol;Acc:MGI:101781]	Q99L88
258	**Col28a1**	0.90	0.38	0.42	0.00	collagen, type XXVIII, alpha 1 [Source:MGI Symbol;Acc:MGI:2685312]	collagen, type XXVIII, alpha 1 [Source:MGI Symbol;Acc:MGI:2685312]	Q2UY11;A0A1L1SSY2
259	**Ddi2**	5.04	2.10	0.42	0.00	DNA-damage inducible protein 2 [Source:MGI Symbol;Acc:MGI:1917244]	DNA-damage inducible protein 2 [Source:MGI Symbol;Acc:MGI:1917244]	
260	**Vasn**	3.68	1.53	0.42	0.00	vasorin [Source:MGI Symbol;Acc:MGI:2177651]	vasorin [Source:MGI Symbol;Acc:MGI:2177651]	Q9CZT5

261	**Heyl**	5.78	2.40	0.42	0.01	hairy/enhancer-of-split related with YRPW motif-like [Source:MGI Symbol;Acc:MGI:1860511]	hairy/enhancer-of-split related with YRPW motif-like [Source:MGI Symbol;Acc:MGI:1860511]	Q9DBX7
262	**Ncor2**	14.14	5.87	0.41	0.00	nuclear receptor co-repressor 2 [Source:MGI Symbol;Acc:MGI:1337080]	nuclear receptor co-repressor 2 [Source:MGI Symbol;Acc:MGI:1337080]	Q9WU42;A0A0G2JED1;A0A0G2JEQ5;D3Z2J5;E9PY55;E9Q701;E9Q9V3;F6SK53;F6YAU7;F6Z4B2;F8VQL9;Q3TG88;Q3TTT3;Q3TZ10;Q80ZV7
263	**Fam53b**	10.43	4.32	0.41	0.01	family with sequence similarity 53, member B [Source:MGI Symbol;Acc:MGI:1925188]	family with sequence similarity 53, member B [Source:MGI Symbol;Acc:MGI:1925188]	Q8BGR5;D3YXR6;D3Z4V7;Q3TNT2;Q3U0R8
264	**Tiam1**	1.15	0.48	0.41	0.01	T cell lymphoma invasion and metastasis 1 [Source:MGI Symbol;Acc:MGI:103306]	T cell lymphoma invasion and metastasis 1 [Source:MGI Symbol;Acc:MGI:103306]	Q60610;E9Q1R7;E9Q2Y4;G3UWG2;J3QMH1;J3QQ55;Q3TQ81;Q3TRA4;Q3UHH6;Q3UVX2;Q6P1D6
265	**Insr**	4.36	1.80	0.41	0.01	insulin receptor [Source:MGI Symbol;Acc:MGI:96575]	insulin receptor [Source:MGI Symbol;Acc:MGI:96575]	P15208;A0A140LI30;B8Q3N4;M4TKR7;Q3TPM5;Q3V2X8;Q3V313
266	**Arhgap35**	4.11	1.69	0.41	0.01	Rho GTPase activating protein 35 [Source:MGI Symbol;Acc:MGI:1929494]	Rho GTPase activating protein 35 [Source:MGI Symbol;Acc:MGI:1929494]	Q91YM2;B2RTN5;Q3TSU7;Q3UVZ8;Q5U612;Q8CCL8
267	**Usf3**	1.62	0.67	0.41	0.00	upstream transcription factor family member 3 MGI:2685454	upstream transcription factor family member 3 MGI:2685454	B2RUQ2;F8WJI0
268	**Ccr10**	12.17	5.02	0.41	0.03	chemokine (C-C motif) receptor 10 [Source:MGI Symbol;Acc:MGI:1096320]	chemokine (C-C motif) receptor 10 [Source:MGI Symbol;Acc:MGI:1096320]	Q9JL21;O08707;A0A1L1ST82;A0A1L1SV85;Q2V6T2;Q924I3;B2RU75;Q8BYE1
269	**Rbm33**	5.64	2.32	0.41	0.00	RNA binding motif protein 33 [Source:MGI Symbol;Acc:MGI:1919670]	RNA binding motif protein 33 [Source:MGI Symbol;Acc:MGI:1919670]	Q9CXK9;D3YV48;D3Z5I9;F6RNF9;F6Y0Q7;Q3TZR3
270	**5430427O19Rik**	0.75	0.31	0.41	0.02	RIKEN cDNA 5430427O19 gene [Source:MGI Symbol;Acc:MGI:1918648]	RIKEN cDNA 5430427O19 gene [Source:MGI Symbol;Acc:MGI:1918648]	Q9D3J9;Q08EG0
271	**Mllt1**	5.79	2.38	0.41	0.02	myeloid/lymphoid or mixed-lineage leukemia; translocated to, 1 [Source:MGI Symbol;Acc:MGI:1927238]	myeloid/lymphoid or mixed-lineage leukemia; translocated to, 1 [Source:MGI Symbol;Acc:MGI:1927238]	A4VCJ2;Q9EPX7;Q9ERL0;P54841;Q3V2C2
272	**Mafb**	3.78	1.56	0.41	0.00	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian) [Source:MGI Symbol;Acc:MGI:104555]	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian) [Source:MGI Symbol;Acc:MGI:104555]	P54841;Q3V2C2

273	**Zyg11b**	1.71	0.70	0.41	0.00	zyg-ll family member B, cell cycle regulator [Source:MGI Symbol;Acc:MGI:2685277]	zyg-ll family member B, cell cycle regulator [Source:MGI Symbol;Acc:MGI:2685277]	Q3UFS0
274	**Rasgrf2**	1.03	0.42	0.41	0.03	RAS protein-specific guanine nucleotide-releasing factor 2 [Source:MGI Symbol;Acc:MGI:109137]	RAS protein-specific guanine nucleotide-releasing factor 2 [Source:MGI Symbol;Acc:MGI:109137]	P70392;A0A1L1SS23;D3Z685;D3Z6K8;F6TCD3;F6TYF8;F7B9R2
275	**Bicra**	5.09	2.07	0.41	0.00	BRD4 interacting chromatin remodeling complex associated protein [Source:MGI Symbol;Acc:MGI:2154263]	BRD4 interacting chromatin remodeling complex associated protein [Source:MGI Symbol;Acc:MGI:2154263]	F8VPZ9;Q571B1
276	**Hspa12a**	3.06	1.24	0.41	0.00	heat shock protein 12A [Source:MGI Symbol;Acc:MGI:1920692]	heat shock protein 12A [Source:MGI Symbol;Acc:MGI:1920692]	Q8K0U4;Q3TNR3
277	**Map2k6**	0.97	0.40	0.41	0.01	mitogen-activated protein kinase kinase 6 [Source:MGI Symbol;Acc:MGI:1346870]	mitogen-activated protein kinase kinase 6 [Source:MGI Symbol;Acc:MGI:1346870]	P70236;A2AGS2;P70273;Q3UU57;Q543Z5;Q60521;Q8BP44
278	**Wdtc1**	12.58	5.11	0.41	0.01	WD and tetratricopeptide repeats 1 [Source:MGI Symbol;Acc:MGI:2685541]	WD and tetratricopeptide repeats 1 [Source:MGI Symbol;Acc:MGI:2685541]	Q80ZK9;A2AE98;Q3TRY0;Q8JZZ2
279	**Ppard**	10.97	4.45	0.41	0.01	peroxisome proliferator activator receptor delta [Source:MGI Symbol;Acc:MGI:101884]	peroxisome proliferator activator receptor delta [Source:MGI Symbol;Acc:MGI:101884]	P35396;E9PV57;Q546I3;Q7TSY1
280	**Shank3**	29.07	11.77	0.40	0.00	SH3 and multiple ankyrin repeat domains 3 [Source:MGI Symbol;Acc:MGI:1930016]	SH3 and multiple ankyrin repeat domains 3 [Source:MGI Symbol;Acc:MGI:1930016]	Q4ACU6;A0A088DEG0;A0A088DEG1;A0A088DEG2;A0A088DEG3;A0A088DEG5;A0A088DEG6;A0A0A0MQD5;A0A2R8VH81;E9Q1P5;F8S0X7;F8S0X8;F8S0X9
281	**Ptpn11**	12.80	5.18	0.40	0.00	protein tyrosine phosphatase, non-receptor type 11 [Source:MGI Symbol;Acc:MGI:99511]	protein tyrosine phosphatase, non-receptor type 11 [Source:MGI Symbol;Acc:MGI:99511]	P35235;Q05C78;Q63848;Q9CT18
282	**Hmbox1**	3.24	1.31	0.40	0.00	homeobox containing 1 [Source:MGI Symbol;Acc:MGI:2445066]	homeobox containing 1 [Source:MGI Symbol;Acc:MGI:2445066]	Q8BJA3;H3BJ31;H3BK13;H3BK67;H3BKF8;H3BKM3;H3BL55;Q3TR65;Q3TT45
283	**Rab2b**	1.93	0.78	0.40	0.03	RAB2B, member RAS oncogene family [Source:MGI Symbol;Acc:MGI:1923588]	RAB2B, member RAS oncogene family [Source:MGI Symbol;Acc:MGI:1923588]	P59279;G3UXQ7;G3UZ24;G3V022;Q0PD64;Q3TEG7;Q5U628;Q6P7T7;Q9DB48
284	**Iqsec1**	17.62	7.10	0.40	0.00	IQ motif and Sec7 domain 1 [Source:MGI Symbol;Acc:MGI:1196356]	IQ motif and Sec7 domain 1 [Source:MGI Symbol;Acc:MGI:1196356]	Q8R0S2;A0A0R4J1U6;A0A1D5RM83;E9PUA3;Q8C8Q0

285	**Hr**	7.59	3.05	0.40	0.00	hairless [Source:MGI Symbol;Acc:MGI:96223]	hairless [Source:MGI Symbol;Acc:MGI:96223]	Q61645;E9PZ81;Q4QY90
286	**Gm7265**	0.82	0.33	0.40	0.00	predicted gene 7265 [Source:MGI Symbol;Acc:MGI:3648991]	predicted gene 7265 [Source:MGI Symbol;Acc:MGI:3648991]	
287	**Vgll4**	11.09	4.45	0.40	0.01	vestigial like family member 4 [Source:MGI Symbol;Acc:MGI:2652840]	vestigial like family member 4 [Source:MGI Symbol;Acc:MGI:2652840]	Q80V24;D3YZY3;D3Z130;Q3TQI9;Q3TSJ2
288	**Calr4**	0.81	0.32	0.40	0.01	calreticulin 4 [Source:MGI Symbol;Acc:MGI:2140435]	calreticulin 4 [Source:MGI Symbol;Acc:MGI:2140435]	A2A8Z3;G5CPP0;Q3TQS0
289	**Khsrp**	10.05	4.02	0.40	0.00	KH-type splicing regulatory protein [Source:MGI Symbol;Acc:MGI:1336214]	KH-type splicing regulatory protein [Source:MGI Symbol;Acc:MGI:1336214]	Q3U0V1;Q8CEN4
290	**Trim56**	3.47	1.39	0.40	0.02	tripartite motif-containing 56 [Source:MGI Symbol;Acc:MGI:2685298]	tripartite motif-containing 56 [Source:MGI Symbol;Acc:MGI:2685298]	Q80VI1;A0A0R4J0Q6;D3YVX5
291	**Tmem201**	4.32	1.73	0.40	0.01	transmembrane protein 201 [Source:MGI Symbol;Acc:MGI:1196277]	transmembrane protein 201 [Source:MGI Symbol;Acc:MGI:1196277]	A2A8U2;Q3TXY3;Q8C397;Q8C9U2
292	**Wasf2**	14.22	5.67	0.40	0.00	WAS protein family, member 2 [Source:MGI Symbol;Acc:MGI:1098641]	WAS protein family, member 2 [Source:MGI Symbol;Acc:MGI:1098641]	Q8BH43;B1AUN0;Q3T9Z7;Q3U3E7;Q80UQ8;Q8BZD7
293	**Cyr61**	23.00	9.17	0.40	0.00	cysteine rich protein 61 [Source:MGI Symbol;Acc:MGI:88613]	cysteine rich protein 61 [Source:MGI Symbol;Acc:MGI:88613]	P18406;Q3TX21
294	**Irgq**	1.84	0.73	0.40	0.03	immunity-related GTPase family, Q [Source:MGI Symbol;Acc:MGI:2667176]	immunity-related GTPase family, Q [Source:MGI Symbol;Acc:MGI:2667176]	Q8VIM9;;Q3ULY1;Q5NCB2;Q8R5D8
295	**Pum1**	2.42	0.96	0.40	0.01	pumilio RNA-binding family member 1 [Source:MGI Symbol;Acc:MGI:1931749]	pumilio RNA-binding family member 1 [Source:MGI Symbol;Acc:MGI:1931749]	Q80U78;A8WHM8;E9Q6M7;Q3TQ21;Q3TRI4;Q3TTW5;Q3U4T5; Q3UHW0;Q3UR00
296	**Tacc1**	11.90	4.70	0.39	0.00	transforming, acidic coiled-coil containing protein 1 [Source:MGI Symbol;Acc:MGI:2443510]	transforming, acidic coiled-coil containing protein 1 [Source:MGI Symbol;Acc:MGI:2443510]	Q6Y685;A0A1B0GR30;A0A1B0GRF4;A0A1B0GRH3;A0A1B0GRI7; A0A1B0GSC1;F8VQ95;Q3UUD7
297	**Cd93**	9.09	3.59	0.39	0.01	CD93 antigen [Source:MGI Symbol;Acc:MGI:106664]	CD93 antigen [Source:MGI Symbol;Acc:MGI:106664]	O89103

298	**Ttpal**	1.80	0.71	0.39	0.01	tocopherol (alpha) transfer protein-like [Source:MGI Symbol;Acc:MGI:1923330]	tocopherol (alpha) transfer protein-like [Source:MGI Symbol;Acc:MGI:1923330]	Q9D3D0;A2A5I7;A6PW50
299	**Snx27**	3.15	1.24	0.39	0.00	sorting nexin family member 27 [Source:MGI Symbol;Acc:MGI:1923992]	sorting nexin family member 27 [Source:MGI Symbol;Acc:MGI:1923992]	Q3UHD6;A0A0G2JF85;A0A0G2JG07;A0A0G2JGD5;Q8BYM0
300	**AU040096**	3.86	1.52	0.39	0.00	N/A	N/A	Q3UTB4;Q3UTB4
301	**Syngap1**	1.82	0.71	0.39	0.04	synaptic Ras GTPase activating protein 1 homolog (rat) [Source:MGI Symbol;Acc:MGI:3039785]	synaptic Ras GTPase activating protein 1 homolog (rat) [Source:MGI Symbol;Acc:MGI:3039785]	F6SEU4;A0A0A6YVS6;A0A0J9YUM2;A0A0J9YUY7;A0A0J9YUZ2;A0A0J9YUZ5;A0A0J9YV63;A0A0J9YVH8;A0A140T8K9;A0A2R8VH83;A0A2R8VHH2;J3QQ18
302	**Arhgap32**	1.86	0.73	0.39	0.01	Rho GTPase activating protein 32 [Source:MGI Symbol;Acc:MGI:2450166]	Rho GTPase activating protein 32 [Source:MGI Symbol;Acc:MGI:2450166]	Q811P8;I7HFI3;Q3US80;S4R2C0;S4R2G6
303	**Fos**	1.26	0.49	0.39	0.03	FBJ osteosarcoma oncogene [Source:MGI Symbol;Acc:MGI:95574]	FBJ osteosarcoma oncogene [Source:MGI Symbol;Acc:MGI:95574]	P01101;Q3U463;Q6TDG4
304	**Crtc3**	2.36	0.92	0.39	0.01	CREB regulated transcription coactivator 3 [Source:MGI Symbol;Acc:MGI:1917711]	CREB regulated transcription coactivator 3 [Source:MGI Symbol;Acc:MGI:1917711]	Q91X84;F6UMS9;F6Y626
305	**Rassf2**	1.35	0.53	0.39	0.01	Ras association (RalGDS/AF-6) domain family member 2 [Source:MGI Symbol;Acc:MGI:2442060]	Ras association (RalGDS/AF-6) domain family member 2 [Source:MGI Symbol;Acc:MGI:2442060]	Q8BMS9;A2APB1;A2AVI0
306	**Dach1**	2.02	0.78	0.39	0.00	dachshund 1 (Drosophila) [Source:MGI Symbol;Acc:MGI:1277991]	dachshund 1 (Drosophila) [Source:MGI Symbol;Acc:MGI:1277991]	Q9QYB2;Q3UTV2;Q68G54;Q80WU5
307	**Ppargc1b**	30.42	11.72	0.39	0.01	peroxisome proliferative activated receptor, gamma, coactivator 1 beta [Source:MGI Symbol;Acc:MGI:2444934]	peroxisome proliferative activated receptor, gamma, coactivator 1 beta [Source:MGI Symbol;Acc:MGI:2444934]	Q8VHJ7;B2RWT8
308	**Prkce**	3.30	1.27	0.38	0.01	protein kinase C, epsilon [Source:MGI Symbol;Acc:MGI:97599]	protein kinase C, epsilon [Source:MGI Symbol;Acc:MGI:97599]	P16054;Q8C944
309	**Nf2**	17.02	6.54	0.38	0.01	neurofibromin 2 [Source:MGI Symbol;Acc:MGI:97307]	neurofibromin 2 [Source:MGI Symbol;Acc:MGI:97307]	P46662;E9PW99;E9Q7I0;F6X089;F7D6P2;F7DBY2;F8WJ43;Q3TIW4;Q62207;Q99K59;Q9D3K3

310	**Creb3l2**	2.06	0.79	0.38	0.02	cAMP responsive element binding protein 3-like 2 [Source:MGI Symbol;Acc:MGI:2442695]	cAMP responsive element binding protein 3-like 2 [Source:MGI Symbol;Acc:MGI:2442695]	Q8BH52;Q922T5
311	**Ern1**	1.04	0.40	0.38	0.00	endoplasmic reticulum (ER) to nucleus signalling 1 [Source:MGI Symbol;Acc:MGI:1930134]	endoplasmic reticulum (ER) to nucleus signalling 1 [Source:MGI Symbol;Acc:MGI:1930134]	Q9EQY0;B1ARJ5;B1ATQ7;Q3TBZ5
312	**Gsap**	0.92	0.35	0.38	0.01	gamma-secretase activating protein [Source:MGI Symbol;Acc:MGI:2442259]	gamma-secretase activating protein [Source:MGI Symbol;Acc:MGI:2442259]	Q3TCV3;A0A0G2JDY7;A0A0G2JE19;A0A0G2JF17;A0A0G2JGX8
313	**Tcf20**	5.22	2.00	0.38	0.00	transcription factor 20 [Source:MGI Symbol;Acc:MGI:108399]	transcription factor 20 [Source:MGI Symbol;Acc:MGI:108399]	Q9EPQ8;A0A2R8VHC6;A0A2R8VKG9;A0A2R8W6K2;Q3U8L8;Q66JM6;Q80U46
314	**Bcl6b**	11.81	4.48	0.38	0.00	B cell CLL/lymphoma 6, member B [Source:MGI Symbol;Acc:MGI:1278332]	B cell CLL/lymphoma 6, member B [Source:MGI Symbol;Acc:MGI:1278332]	O88282;A2CF73;Q3U0M5;Q5BKP3
315	**Slc25a42**	149.01	56.38	0.38	0.01	solute carrier family 25, member 42 [Source:MGI Symbol;Acc:MGI:1920345]	solute carrier family 25, member 42 [Source:MGI Symbol;Acc:MGI:1920345]	Q8R0Y8
316	**Nrarp**	8.88	3.36	0.38	0.01	Notch-regulated ankyrin repeat protein [Source:MGI Symbol;Acc:MGI:1914372]	Notch-regulated ankyrin repeat protein [Source:MGI Symbol;Acc:MGI:1914372]	Q91ZA8
317	**Hapln4**	1.20	0.45	0.38	0.00	hyaluronan and proteoglycan link protein 4 [Source:MGI Symbol;Acc:MGI:2679531]	hyaluronan and proteoglycan link protein 4 [Source:MGI Symbol;Acc:MGI:2679531]	Q80WM4
318	**Ubxn7**	2.13	0.80	0.38	0.02	UBX domain protein 7 [Source:MGI Symbol;Acc:MGI:2146388]	UBX domain protein 7 [Source:MGI Symbol;Acc:MGI:2146388]	Q6P5G6;G5E8R8;Q3UGV7
319	**Hmcn2**	2.54	0.96	0.38	0.00	hemicentin 2 [Source:MGI Symbol;Acc:MGI:2677838]	hemicentin 2 [Source:MGI Symbol;Acc:MGI:2677838]	A2AJ76;A0A2I3BRN3;F6VSY0
320	**Msmp**	10.14	3.81	0.38	0.01	microseminoprotein, prostate associated [Source:MGI Symbol;Acc:MGI:3652339]	microseminoprotein, prostate associated [Source:MGI Symbol;Acc:MGI:3652339]	B1AWI6
321	**Pdpk1**	1.72	0.65	0.38	0.01	3-phosphoinositide dependent protein kinase 1 [Source:MGI Symbol;Acc:MGI:1338068]	3-phosphoinositide dependent protein kinase 1 [Source:MGI Symbol;Acc:MGI:1338068]	Q9Z2A0;F2Z3V6;F2Z3X6;F2Z3X9;F2Z3Z9;F2Z400;F2Z4A5;Q3TRL2;Q3UEW8;Q3UGN6;Q3UHZ0;Q8K3L3

322	**Midn**	16.17	6.06	0.38	0.01	midnolin [Source:MGI Symbol;Acc:MGI:1890222]	midnolin [Source:MGI Symbol;Acc:MGI:1890222]	Q3TPJ7;D3YYX7;D3YZI7;D3Z1J8;D3Z7H2
323	**Lrp6**	5.33	2.00	0.37	0.00	low density lipoprotein receptor-related protein 6 [Source:MGI Symbol;Acc:MGI:1298218]	low density lipoprotein receptor-related protein 6 [Source:MGI Symbol;Acc:MGI:1298218]	O88572;A0A0N4SUL9;A0A0R4J0A9;Q3TS86;Q3US54
324	**Rxra**	11.16	4.18	0.37	0.01	retinoid X receptor alpha [Source:MGI Symbol;Acc:MGI:98214]	retinoid X receptor alpha [Source:MGI Symbol;Acc:MGI:98214]	P28700;A2AJP1;A2AJP2;Q3UMU4;Q6LC96
325	**Cd300lh**	1.72	0.64	0.37	0.02	CD300 molecule like family member D3 [Source:MGI Symbol;Acc:MGI:2687214]	CD300 molecule like family member D3 [Source:MGI Symbol;Acc:MGI:2687214]	Q6SJQ5
326	**Tmem179**	3.74	1.40	0.37	0.02	transmembrane protein 179 [Source:MGI Symbol;Acc:MGI:2144891]	transmembrane protein 179 [Source:MGI Symbol;Acc:MGI:2144891]	Q8BHH9;A0A1Y7VM43
327	**Rnf152**	3.42	1.28	0.37	0.02	ring finger protein 152 [Source:MGI Symbol;Acc:MGI:2443787]	ring finger protein 152 [Source:MGI Symbol;Acc:MGI:2443787]	Q8BG47
328	**Med13l**	4.40	1.64	0.37	0.01	mediator complex subunit 13-like [Source:MGI Symbol;Acc:MGI:2670178]	mediator complex subunit 13-like [Source:MGI Symbol;Acc:MGI:2670178]	Q6JPI3;A0A0J9YUA8;E9QLJ3;Q3TDJ7;Q6GQS5;Q8C2D6
329	**Gtf2a1**	3.64	1.35	0.37	0.00	general transcription factor II A, 1 [Source:MGI Symbol;Acc:MGI:1933277]	general transcription factor II A, 1 [Source:MGI Symbol;Acc:MGI:1933277]	Q99PM3;Q0VGZ0;Q149E9;Q3USX2
330	**Tnrc18**	6.68	2.48	0.37	0.00	trinucleotide repeat containing 18 [Source:MGI Symbol;Acc:MGI:3648294]	trinucleotide repeat containing 18 [Source:MGI Symbol;Acc:MGI:3648294]	Q80WC3;A0A0G2JFH8;D3YV17;F6Z7L1;Q52KG0
331	**Tmem8b**	4.36	1.62	0.37	0.02	transmembrane protein 8B [Source:MGI Symbol;Acc:MGI:2441680]	transmembrane protein 8B [Source:MGI Symbol;Acc:MGI:2441680]	B1AWJ5;B1AWJ4;E9Q7V8
332	**Fam63b**	3.42	1.26	0.37	0.01	MINDY lysine 48 deubiquitinase 2 [Source:MGI Symbol;Acc:MGI:2443086]	MINDY lysine 48 deubiquitinase 2 [Source:MGI Symbol;Acc:MGI:2443086]	Q6PDI6;A0A1L1STF0;Q3UMW4
333	**Tmem104**	2.85	1.05	0.37	0.01	transmembrane protein 104 [Source:MGI Symbol;Acc:MGI:2444222]	transmembrane protein 104 [Source:MGI Symbol;Acc:MGI:2444222]	Q3TB48;A2A6S1;B2RU54
334	**Kif1b**	13.87	5.13	0.37	0.00	kinesin family member 1B [Source:MGI Symbol;Acc:MGI:108426]	kinesin family member 1B [Source:MGI Symbol;Acc:MGI:108426]	Q60575;A2AH75;F6XNB6;Q3UY61;Q6PB45;Q8BN53;Q8C6Z0

335	**Xpnpep3**	2.78	1.03	0.37	0.03	X-prolyl aminopeptidase 3, mitochondrial [Source:MGI Symbol;Acc:MGI:2445217]	X-prolyl aminopeptidase 3, mitochondrial [Source:MGI Symbol;Acc:MGI:2445217]	B7ZMP1;E9Q7I3
336	**Map1b**	0.84	0.31	0.37	0.00	microtubule-associated protein 1B [Source:MGI Symbol;Acc:MGI:1306778]	microtubule-associated protein 1B [Source:MGI Symbol;Acc:MGI:1306778]	P14873;A0A286YDV1;A0PJ96;B2RQQ5;Q3TYV8;Q3TZM8;Q3UF78;Q3UPV4;Q8CAI9;Q8CFR9
337	**Sbk1**	6.23	2.29	0.37	0.03	SH3-binding kinase 1 [Source:MGI Symbol;Acc:MGI:2135937]	SH3-binding kinase 1 [Source:MGI Symbol;Acc:MGI:2135937]	Q8QZX0;A0A0U1RNW9;A0A0U1RNY5
338	**9430078G10Rik**	1.52	0.56	0.37	0.03	RIKEN cDNA 9430078G10 MGI:3588259	RIKEN cDNA 9430078G10 MGI:3588259	Q3UVN2
339	**Mfsd12**	4.06	1.49	0.37	0.00	major facilitator superfamily domain containing 12 [Source:MGI Symbol;Acc:MGI:3604804]	major facilitator superfamily domain containing 12 [Source:MGI Symbol;Acc:MGI:3604804]	Q3U481;D6RJ45
340	**Adam19**	0.98	0.36	0.36	0.01	a disintegrin and metallopeptidase domain 19 (meltrin beta) [Source:MGI Symbol;Acc:MGI:105377]	a disintegrin and metallopeptidase domain 19 (meltrin beta) [Source:MGI Symbol;Acc:MGI:105377]	O35674;Q14BL7;Q3UH67;Q3UHT3;Q80UF6
341	**Ago2**	2.84	1.04	0.36	0.01	argonaute RISC catalytic subunit 2 [Source:MGI Symbol;Acc:MGI:2446632]	argonaute RISC catalytic subunit 2 [Source:MGI Symbol;Acc:MGI:2446632]	Q8CJG0;Q3UQ34;Q6P239;Q6PHA2;Q8R3Q7
342	**Zfp36l2**	22.71	8.25	0.36	0.01	zinc finger protein 36, C3H type-like 2 [Source:MGI Symbol;Acc:MGI:107945]	zinc finger protein 36, C3H type-like 2 [Source:MGI Symbol;Acc:MGI:107945]	P23949;Q9EQL7;Q9EQL8
343	**Cdnf**	3.97	1.44	0.36	0.03	cerebral dopamine neurotrophic factor [Source:MGI Symbol;Acc:MGI:3606576]	cerebral dopamine neurotrophic factor [Source:MGI Symbol;Acc:MGI:3606576]	Q8CC36
344	**Tns1**	112.49	40.82	0.36	0.00	tensin 1 [Source:MGI Symbol;Acc:MGI:104552]	tensin 1 [Source:MGI Symbol;Acc:MGI:104552]	A0A087WP40;A0A087WPC7;A0A087WQ94;A0A087WQM0;A0A087WQS0;A0A087WR29;A0A087WRU0;A0A087WRZ8;A0A087WS32;A0A087WSC8;A0A1D5RM59;E9Q0S6;Q3U0Q9;Q7TPM8;Q7TSV1;Q8C323;Q8C6V6;Q9DBT6
345	**Igf2**	2.67	0.97	0.36	0.02	insulin-like growth factor 2 [Source:MGI Symbol;Acc:MGI:96434]	insulin-like growth factor 2 [Source:MGI Symbol;Acc:MGI:96434]	P09535;B0LAD8;D3Z4N4;J3QJZ9;Q3UJB6
346	**Eya2**	1.47	0.53	0.36	0.00	EYA transcriptional coactivator and phosphatase 2 [Source:MGI Symbol;Acc:MGI:109341]	EYA transcriptional coactivator and phosphatase 2 [Source:MGI Symbol;Acc:MGI:109341]	O08575;Q3UR62;Q3UV00;Q811N7;Q811N8
347	**Fosl2**	4.87	1.76	0.36	0.01	fos-like antigen 2 [Source:MGI Symbol;Acc:MGI:102858]	fos-like antigen 2 [Source:MGI Symbol;Acc:MGI:102858]	P47930

348	**Gfod1**	2.64	0.96	0.36	0.01	glucose-fructose oxidoreductase domain containing 1 [Source:MGI Symbol;Acc:MGI:2145304]	glucose-fructose oxidoreductase domain containing 1 [Source:MGI Symbol;Acc:MGI:2145304]	Q3UHD2;A0A1Y7VIZ4
349	**Epdr1**	1.68	0.61	0.36	0.00	ependymin related protein 1 (zebrafish) [Source:MGI Symbol;Acc:MGI:2145369]	ependymin related protein 1 (zebrafish) [Source:MGI Symbol;Acc:MGI:2145369]	Q99M71;A0A1Y7VKS9
350	**Smad3**	2.51	0.90	0.36	0.00	SMAD family member 3 [Source:MGI Symbol;Acc:MGI:1201674]	SMAD family member 3 [Source:MGI Symbol;Acc:MGI:1201674]	Q8BUN5;A2CG44;A2CG45;F7BUP2;Q05CN3;Q3V3E0
351	**Cpeb4**	2.90	1.04	0.36	0.01	cytoplasmic polyadenylation element binding protein 4 [Source:MGI Symbol;Acc:MGI:1914829]	cytoplasmic polyadenylation element binding protein 4 [Source:MGI Symbol;Acc:MGI:1914829]	Q7TN98;Q3TSF0;Q3U4E1;Q5SU47;Q5SU48;Q9D5F3;Q9D5G2
352	**Atf7**	4.30	1.54	0.36	0.01	activating transcription factor 7 [Source:MGI Symbol;Acc:MGI:2443472]	activating transcription factor 7 [Source:MGI Symbol;Acc:MGI:2443472]	O70191;A0A140LIB7;Q3TVK2;Q3UJF3
353	**Ahdc1**	8.56	3.05	0.36	0.00	AT hook, DNA binding motif, containing 1 [Source:MGI Symbol;Acc:MGI:2444218]	AT hook, DNA binding motif, containing 1 [Source:MGI Symbol;Acc:MGI:2444218]	Q6PAL7
354	**D830031N03Rik**	2.61	0.93	0.36	0.00	RIKEN cDNA D830031N03 MGI:3045367	RIKEN cDNA D830031N03 MGI:3045367	Q69ZZ9
355	**Ebf2**	4.59	1.63	0.36	0.02	early B cell factor 2 [Source:MGI Symbol;Acc:MGI:894332]	early B cell factor 2 [Source:MGI Symbol;Acc:MGI:894332]	O08792
356	**Lnpep**	2.52	0.90	0.36	0.00	leucyl/cystinyl aminopeptidase [Source:MGI Symbol;Acc:MGI:2387123]	leucyl/cystinyl aminopeptidase [Source:MGI Symbol;Acc:MGI:2387123]	Q8C129;Q3TA05;Q3TTA8;Q6NY09;Q8BZ14
357	**Tom1l2**	10.45	3.70	0.35	0.00	target of myb1-like 2 (chicken) [Source:MGI Symbol;Acc:MGI:2443306]	target of myb1-like 2 (chicken) [Source:MGI Symbol;Acc:MGI:2443306]	Q5SRX1;F6RBX1;F6ZDJ1;Q5SXA4;Q5SXA5
358	**Cpeb3**	3.03	1.07	0.35	0.01	Cytoplasmic polyadenylation element-binding protein 3 [Source:UniProtKB/Swiss-Prot;Acc:Q7TN99]	Cytoplasmic polyadenylation element-binding protein 3 [Source:UniProtKB/Swiss-Prot;Acc:Q7TN99]	Q7TN99;A0A0R4J102;D3YUL6;D3YXB8;D3Z1R6;D3Z3Z5;D3Z5F3;D3Z5R9;F6T0J8
359	**Nol4l**	4.00	1.41	0.35	0.03	nucleolar protein 4-like [Source:MGI Symbol;Acc:MGI:1918765]	nucleolar protein 4-like [Source:MGI Symbol;Acc:MGI:1918765]	Q6DIB4;Q3TPB4;Q3TZG8;Q3UH85;Q52KQ8;Q6AXH3

360	**Lrfn4**	3.77	1.33	0.35	0.01	leucine rich repeat and fibronectin type III domain containing 4 [Source:MGI Symbol;Acc:MGI:2385612]	leucine rich repeat and fibronectin type III domain containing 4 [Source:MGI Symbol;Acc:MGI:2385612]	Q80XU8
361	**Tenm4**	1.24	0.43	0.35	0.00	teneurin transmembrane protein 4 [Source:MGI Symbol;Acc:MGI:2447063]	teneurin transmembrane protein 4 [Source:MGI Symbol;Acc:MGI:2447063]	Q3UHK6;A0A0U1RNZ7;A5HLW2;A5HLW3;D3YVP2;F6UP10;Q8CD62
362	**Ttyh3**	3.87	1.36	0.35	0.01	tweety family member 3 [Source:MGI Symbol;Acc:MGI:1925589]	tweety family member 3 [Source:MGI Symbol;Acc:MGI:1925589]	Q6P5F7;A0A0G2JGJ4
363	**Klf13**	3.55	1.25	0.35	0.01	Kruppel-like factor 13 [Source:MGI Symbol;Acc:MGI:1354948]	Kruppel-like factor 13 [Source:MGI Symbol;Acc:MGI:1354948]	Q9JJZ6;A0A087WQX4;Q3U2G6;Q9DCC0;V9GX95
364	**Rere**	16.64	5.82	0.35	0.01	arginine glutamic acid dipeptide (RE) repeats [Source:MGI Symbol;Acc:MGI:2683486]	arginine glutamic acid dipeptide (RE) repeats [Source:MGI Symbol;Acc:MGI:2683486]	Q80TZ9;A0A1W2P787;A2A7T1;A2A7T3;B1AS11;B7ZND6;Q2NLC0
365	**Cblb**	2.78	0.97	0.35	0.00	Casitas B-lineage lymphoma b [Source:MGI Symbol;Acc:MGI:2146430]	Casitas B-lineage lymphoma b [Source:MGI Symbol;Acc:MGI:2146430]	Q9D273;D3Z1G7;Q3UQM9;Q3TTA7;B1NE43;B9EKI5
366	**Mknk2**	128.97	45.01	0.35	0.00	MAP kinase-interacting serine/threonine kinase 2 [Source:MGI Symbol;Acc:MGI:894279]	MAP kinase-interacting serine/threonine kinase 2 [Source:MGI Symbol;Acc:MGI:894279]	Q8CDB0;A0A0G2JDJ0;A0A0G2JGQ2;A0A0G2JGS6;A0A0R4IZX7;A7E2R7;Q3TPM2;W6CR13
367	**Uhmk1**	1.93	0.67	0.35	0.01	U2AF homology motif (UHM) kinase 1 [Source:MGI Symbol;Acc:MGI:1341908]	U2AF homology motif (UHM) kinase 1 [Source:MGI Symbol;Acc:MGI:1341908]	P97343;D3YUF5;Q8C0N6
368	**2900026A02Rik**	6.67	2.32	0.35	0.02	RIKEN cDNA 2900026A02 gene [Source:MGI Symbol;Acc:MGI:1920194]	RIKEN cDNA 2900026A02 gene [Source:MGI Symbol;Acc:MGI:1920194]	
369	**Abl2**	1.38	0.48	0.35	0.02	v-abl Abelson murine leukemia viral oncogene 2 (arg, Abelson-related gene) [Source:MGI Symbol;Acc:MGI:87860]	v-abl Abelson murine leukemia viral oncogene 2 (arg, Abelson-related gene) [Source:MGI Symbol;Acc:MGI:87860]	Q4JIM5;A0A087WQB7;B2RQ57;B7ZMZ2;F8VQH0;G3UWQ2;Q61055;Q99P28
370	**Dpysl2**	2.93	1.01	0.35	0.01	dihydropyrimidinase-like 2 [Source:MGI Symbol;Acc:MGI:1349763]	dihydropyrimidinase-like 2 [Source:MGI Symbol;Acc:MGI:1349763]	O08553
371	**Exoc6b**	1.86	0.64	0.34	0.00	exocyst complex component 6B [Source:MGI Symbol;Acc:MGI:1923164]	exocyst complex component 6B [Source:MGI Symbol;Acc:MGI:1923164]	A6H5Z3;E0CY34;Q5DU10;Q6PCN5;Q8C1X1;Q8C203;Q8K2N8;Q9D4R7

372	**Zkscan1**	1.37	0.47	0.34	0.01	zinc finger with KRAB and SCAN domains 1 [Source:MGI Symbol;Acc:MGI:1921820]	zinc finger with KRAB and SCAN domains 1 [Source:MGI Symbol;Acc:MGI:1921820]	D3Z3H8;Q5DTG4;Q8C689;Q9R162;Q8BGS3;Q8BUH6;Q8BZY7
373	**Ywhag**	69.58	23.73	0.34	0.01	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide [Source:MGI Symbol;Acc:MGI:108109]	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide [Source:MGI Symbol;Acc:MGI:108109]	P61982;A8IP69;Q3TP56
374	**Spata13**	2.18	0.74	0.34	0.00	spermatogenesis associated 13 [Source:MGI Symbol;Acc:MGI:104838]	spermatogenesis associated 13 [Source:MGI Symbol;Acc:MGI:104838]	Q5DU57;B7ZNJ6;B9EHV2;E0CXN6;E0CYU0;E0CZ51;E9Q3I3;F6SRZ4;F6V9S1
375	**Rc3h2**	1.31	0.44	0.34	0.00	ring finger and CCCH-type zinc finger domains 2 [Source:MGI Symbol;Acc:MGI:2442789]	ring finger and CCCH-type zinc finger domains 2 [Source:MGI Symbol;Acc:MGI:2442789]	P0C090;A0A0N4SVF7;A2AVP4;Q148V4;Q148V5
376	**Jun**	28.37	9.56	0.34	0.00	jun proto-oncogene [Source:MGI Symbol;Acc:MGI:96646]	jun proto-oncogene [Source:MGI Symbol;Acc:MGI:96646]	P05627;Q3US19;Q3V255;Q52L79;Q6TDG5
377	**Ppp1r9b**	72.29	24.34	0.34	0.01	protein phosphatase 1, regulatory subunit 9B [Source:MGI Symbol;Acc:MGI:2387581]	protein phosphatase 1, regulatory subunit 9B [Source:MGI Symbol;Acc:MGI:2387581]	Q6R891;Q8C3W4
378	**Rab11fip4**	1.36	0.46	0.34	0.03	RAB11 family interacting protein 4 (class II) [Source:MGI Symbol;Acc:MGI:2442920]	RAB11 family interacting protein 4 (class II) [Source:MGI Symbol;Acc:MGI:2442920]	Q8BQP8;F6YI06;Q3U4R6
379	**Inhbb**	1.57	0.52	0.33	0.01	inhibin beta-B [Source:MGI Symbol;Acc:MGI:96571]	inhibin beta-B [Source:MGI Symbol;Acc:MGI:96571]	Q04999
380	**Nuak1**	2.26	0.75	0.33	0.00	NUAK family, SNF1-like kinase, 1 [Source:MGI Symbol;Acc:MGI:1925226]	NUAK family, SNF1-like kinase, 1 [Source:MGI Symbol;Acc:MGI:1925226]	Q641K5;F6XZX4
381	**Afap1**	2.69	0.89	0.33	0.01	actin filament associated protein 1 [Source:MGI Symbol;Acc:MGI:1917542]	actin filament associated protein 1 [Source:MGI Symbol;Acc:MGI:1917542]	Q80YS6;A0A1D5RLL0;E9Q8X9;Q8BV31;Q9CT56
382	**Foxn3**	3.75	1.24	0.33	0.00	forkhead box N3 [Source:MGI Symbol;Acc:MGI:1918625]	forkhead box N3 [Source:MGI Symbol;Acc:MGI:1918625]	Q499D0;A0A1Y7VMU1;H3BLD8;H3BLJ5;Q3UF56
383	**Sipa1l3**	3.00	0.99	0.33	0.01	signal-induced proliferation-associated 1 like 3 [Source:MGI Symbol;Acc:MGI:1921456]	signal-induced proliferation-associated 1 like 3 [Source:MGI Symbol;Acc:MGI:1921456]	G3X9J0;A0AUN2;A2VCS4;A6H637;A7MCX1;Q4VBF3;Q6A050;Q8BGC2;Q8K054;Q9CSR2;S4R1P8;S4R1S0;S4R1U8;S4R2C7;S4R2N4

384	**Zbtb7a**	11.30	3.70	0.33	0.01	zinc finger and BTB domain containing 7a [Source:MGI Symbol;Acc:MGI:1335091]	zinc finger and BTB domain containing 7a [Source:MGI Symbol;Acc:MGI:1335091]	O88939;B7ZWA9;D3YVF8;D3YZI8;D3Z4C3
385	**Glcci1**	1.64	0.54	0.33	0.00	glucocorticoid induced transcript 1 [Source:MGI Symbol;Acc:MGI:2179717]	glucocorticoid induced transcript 1 [Source:MGI Symbol;Acc:MGI:2179717]	Q8K3I9;A0A0R4J1Y9;A0A0R4J1Z9;E0CXI8;E9QKK4
386	**Trim67**	4.31	1.40	0.33	0.00	tripartite motif-containing 67 [Source:MGI Symbol;Acc:MGI:3045323]	tripartite motif-containing 67 [Source:MGI Symbol;Acc:MGI:3045323]	Q505D9;Q571A7;Q8BQ60
387	**Lrrc25**	2.13	0.69	0.33	0.00	leucine rich repeat containing 25 [Source:MGI Symbol;Acc:MGI:2445284]	leucine rich repeat containing 25 [Source:MGI Symbol;Acc:MGI:2445284]	Q8K1T1;A0A1B0GRA2;B9EHD0
388	**Mamld1**	1.38	0.45	0.32	0.02	mastermind-like domain containing 1 [Source:MGI Symbol;Acc:MGI:3045303]	mastermind-like domain containing 1 [Source:MGI Symbol;Acc:MGI:3045303]	P0C6A2;B2RXP0;B2RXV1;B7ZWF2;D3Z768
389	**Mllt6**	24.09	7.81	0.32	0.00	myeloid/lymphoid or mixed-lineage leukemia; translocated to, 6 [Source:MGI Symbol;Acc:MGI:1935145]	myeloid/lymphoid or mixed-lineage leukemia; translocated to, 6 [Source:MGI Symbol;Acc:MGI:1935145]	B1AR09;B1AR10;Q3UPK1;Q8CFR8;Q8VHB4
390	**Bcl2l2**	10.49	3.40	0.32	0.01	BCL2-like 2 [Source:MGI Symbol;Acc:MGI:108052]	BCL2-like 2 [Source:MGI Symbol;Acc:MGI:108052]	P70345;A0A2I3BR11;G3XA70;Q9D1Y5
391	**Egr1**	5.41	1.75	0.32	0.00	early growth response 1 [Source:MGI Symbol;Acc:MGI:95295]	early growth response 1 [Source:MGI Symbol;Acc:MGI:95295]	P08046;Q3UM09;Q3UZU7;Q544D6;Q6LDK7;Q8CAT6
392	**Klf7**	3.83	1.23	0.32	0.02	Kruppel-like factor 7 (ubiquitous) [Source:MGI Symbol;Acc:MGI:1935151]	Kruppel-like factor 7 (ubiquitous) [Source:MGI Symbol;Acc:MGI:1935151]	Q99JB0;A2AAB6;Q3UES6;Q8BUB8;Q8BZ72
393	**Sp1**	2.96	0.95	0.32	0.01	trans-acting transcription factor 1 [Source:MGI Symbol;Acc:MGI:98372]	trans-acting transcription factor 1 [Source:MGI Symbol;Acc:MGI:98372]	O89090;A2TH11;E9Q0S7;E9Q113;E9Q2V3;G3X8Q0;Q76LW6;Q3UPN3
394	**Slc4a4**	10.03	3.22	0.32	0.02	solute carrier family 4 (anion exchanger), member 4 [Source:MGI Symbol;Acc:MGI:1927555]	solute carrier family 4 (anion exchanger), member 4 [Source:MGI Symbol;Acc:MGI:1927555]	O88343;A2VDF7;A7E1Z5;D3Z7G8;D3Z7I7;E1AWU4;E3VWA1;E9Q8N8
395	**Btbd9**	1.52	0.48	0.32	0.00	BTB (POZ) domain containing 9 [Source:MGI Symbol;Acc:MGI:1916625]	BTB (POZ) domain containing 9 [Source:MGI Symbol;Acc:MGI:1916625]	Q8C726;Q3TUC6;Q3U4Z0;Q69Z81;Q6P541;Q8C2V5;Q8CDU2;Q9DA12

396	**Dagla**	9.58	3.06	0.32	0.01	diacylglycerol lipase, alpha [Source:MGI Symbol;Acc:MGI:2677061]	diacylglycerol lipase, alpha [Source:MGI Symbol;Acc:MGI:2677061]	Q6WQJ1;A4FU75;S4R2M3
397	**Kdm6b**	19.09	6.04	0.32	0.00	KDM1 lysine (K)-specific demethylase 6B [Source:MGI Symbol;Acc:MGI:2448492]	KDM1 lysine (K)-specific demethylase 6B [Source:MGI Symbol;Acc:MGI:2448492]	Q5NCY0;Q3UQG0;Q8K0Z1
398	**Rc3h1**	3.32	1.05	0.32	0.00	RING CCCH (C3H) domains 1 [Source:MGI Symbol;Acc:MGI:2685397]	RING CCCH (C3H) domains 1 [Source:MGI Symbol;Acc:MGI:2685397]	Q4VGL6;H7BX02;Q3TS82;Q3UT88
399	**Zcchc24**	4.45	1.40	0.31	0.01	zinc finger, CCHC domain containing 24 [Source:MGI Symbol;Acc:MGI:1919168]	zinc finger, CCHC domain containing 24 [Source:MGI Symbol;Acc:MGI:1919168]	B2RVL6
400	**Adamtsl3**	1.24	0.39	0.31	0.00	ADAMTS-like 3 [Source:MGI Symbol;Acc:MGI:3028499]	ADAMTS-like 3 [Source:MGI Symbol;Acc:MGI:3028499]	G3UWL5;G3UXC7;G3UYN1;Q5DTZ4
401	**Nr3c2**	1.59	0.50	0.31	0.01	nuclear receptor subfamily 3, group C, member 2 [Source:MGI Symbol;Acc:MGI:99459]	nuclear receptor subfamily 3, group C, member 2 [Source:MGI Symbol;Acc:MGI:99459]	Q8VII8;A3KN90;D3Z473;D3Z7F2;D3Z7J4;D6RIL1;E9Q8M8;Q3UW58
402	**Slc25a48**	6.71	2.09	0.31	0.01	solute carrier family 25, member 48 [Source:MGI Symbol;Acc:MGI:2145373]	solute carrier family 25, member 48 [Source:MGI Symbol;Acc:MGI:2145373]	Q8BW66
403	**Kcnk3**	39.16	12.13	0.31	0.03	potassium channel, subfamily K, member 3 [Source:MGI Symbol;Acc:MGI:1100509]	potassium channel, subfamily K, member 3 [Source:MGI Symbol;Acc:MGI:1100509]	O35111;Q9QX34
404	**Trib1**	9.04	2.80	0.31	0.00	tribbles pseudokinase 1 [Source:MGI Symbol;Acc:MGI:2443397]	tribbles pseudokinase 1 [Source:MGI Symbol;Acc:MGI:2443397]	Q8K4K4
405	**Tnfrsf14**	3.15	0.97	0.31	0.01	tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator) [Source:MGI Symbol;Acc:MGI:2675303]	tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator) [Source:MGI Symbol;Acc:MGI:2675303]	A0A1W2P6M8;A0A1W2P7D5;A0A1W2P889;F6Y2U8;Q3SXX1;Q71F55;Q80WM9;Q8VC17
406	**Zfp395**	13.87	4.27	0.31	0.00	zinc finger protein 395 [Source:MGI Symbol;Acc:MGI:2682318]	zinc finger protein 395 [Source:MGI Symbol;Acc:MGI:2682318]	A0A286YDB9;A0A286YDG8;E9Q5N9;Q3U227;Q7TPT8
407	**Kmt2d**	18.37	5.66	0.31	0.00	lysine (K)-specific methyltransferase 2D [Source:MGI Symbol;Acc:MGI:2682319]	lysine (K)-specific methyltransferase 2D [Source:MGI Symbol;Acc:MGI:2682319]	Q6PDK2;A0A0A0MQ73;A0A0A6YY77;A0A2R8VHD4;Q3USG3;Q3USM7;V9GX77

408	**Tmem127**	4.66	1.43	0.31	0.01	transmembrane protein 127 [Source:MGI Symbol;Acc:MGI:1916720]	transmembrane protein 127 [Source:MGI Symbol;Acc:MGI:1916720]	Q8BGP5;G3UXI2;G3UZT7
409	**Arrb1**	3.34	1.02	0.31	0.00	arrestin, beta 1 [Source:MGI Symbol;Acc:MGI:99473]	arrestin, beta 1 [Source:MGI Symbol;Acc:MGI:99473]	Q8BWG8;E0CY53;E0CYB1;F7DF62;J3QNU6;Q3U172
410	**Ctcfl**	9.10	2.78	0.31	0.00	CCCTC-binding factor (zinc finger protein)-like [Source:MGI Symbol;Acc:MGI:3652571]	CCCTC-binding factor (zinc finger protein)-like [Source:MGI Symbol;Acc:MGI:3652571]	Q61164;Q05CK6;Q3USR8;Q3UYZ8;Q3UZH8;A2APF3;B4XVN2
411	**Rassf8**	2.31	0.71	0.31	0.00	Ras association (RalGDS/AF-6) domain family (N-terminal) member 8 [Source:MGI Symbol;Acc:MGI:1918573]	Ras association (RalGDS/AF-6) domain family (N-terminal) member 8 [Source:MGI Symbol;Acc:MGI:1918573]	Q8CJ96;E9QA00;F7BB71;Q99KG2
412	**Eif4ebp2**	18.41	5.62	0.31	0.04	eukaryotic translation initiation factor 4E binding protein 2 [Source:MGI Symbol;Acc:MGI:109198]	eukaryotic translation initiation factor 4E binding protein 2 [Source:MGI Symbol;Acc:MGI:109198]	P70445;Q3UFP6;Q3UZD4
413	**Pdzd2**	11.74	3.58	0.30	0.00	PDZ domain containing 2 [Source:MGI Symbol;Acc:MGI:1922394]	PDZ domain containing 2 [Source:MGI Symbol;Acc:MGI:1922394]	A0A087WQ09;A0A087WRL4;A0A087WS85;E9Q1M1;Q14BH0;Q3TRS4;Q3TXZ4;Q3UW81;Q80U45;Q9CTP6;Q9D4Z1
414	**Tbc1d16**	1.27	0.39	0.30	0.05	TBC1 domain family, member 16 [Source:MGI Symbol;Acc:MGI:2652878]	TBC1 domain family, member 16 [Source:MGI Symbol;Acc:MGI:2652878]	A2ABG4;A2AFK9;Q6PFC0;Q8BXD8
415	**Prrc2b**	8.02	2.44	0.30	0.00	proline-rich coiled-coil 2B [Source:MGI Symbol;Acc:MGI:1923304]	proline-rich coiled-coil 2B [Source:MGI Symbol;Acc:MGI:1923304]	Q7TPM1;F6Q3E1;F6V431;F7AYW2;F8WHT3;Q80TY7
416	**Ndst1**	6.90	2.09	0.30	0.01	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1 [Source:MGI Symbol;Acc:MGI:104719]	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1 [Source:MGI Symbol;Acc:MGI:104719]	Q3UHN9
417	**Igf1r**	1.46	0.44	0.30	0.04	insulin-like growth factor I receptor [Source:MGI Symbol;Acc:MGI:96433]	insulin-like growth factor I receptor [Source:MGI Symbol;Acc:MGI:96433]	Q60751;E9QNX9;Q3U1L4;Q3UVJ3
418	**Rora**	1.24	0.37	0.30	0.02	RAR-related orphan receptor alpha [Source:MGI Symbol;Acc:MGI:104661]	RAR-related orphan receptor alpha [Source:MGI Symbol;Acc:MGI:104661]	P51448;G3UZ02;Q3U1P4;Q8BRL5;Q8C3F5
419	**Zmiz1**	7.00	2.10	0.30	0.00	zinc finger, MIZ-type containing 1 [Source:MGI Symbol;Acc:MGI:3040693]	zinc finger, MIZ-type containing 1 [Source:MGI Symbol;Acc:MGI:3040693]	Q6P1E1;Q3TEV4;Q3V215

420	**Nat8l**	37.63	11.24	0.30	0.01	N-acetyltransferase 8-like [Source:MGI Symbol;Acc:MGI:2447776]	N-acetyltransferase 8-like [Source:MGI Symbol;Acc:MGI:2447776]	Q3UGX3;A0A0R4J0R4
421	**Cpn2**	4.66	1.39	0.30	0.03	carboxypeptidase N, polypeptide 2 [Source:MGI Symbol;Acc:MGI:1919006]	carboxypeptidase N, polypeptide 2 [Source:MGI Symbol;Acc:MGI:1919006]	Q3TG86;Q3TR45;Q3UQH5;P15539;G3UWE4;Q9DBB9;Q642I5;P59108;A0A0R4J1D0;A0A1D5RLP0;Q3TVB2;Q8QZU9
422	**Tgfbr3**	5.52	1.64	0.30	0.00	transforming growth factor, beta receptor III [Source:MGI Symbol;Acc:MGI:104637]	transforming growth factor, beta receptor III [Source:MGI Symbol;Acc:MGI:104637]	O88393;A0A0R4J097;F6VPT9;Q3TM82
423	**Foxk1**	3.81	1.13	0.30	0.00	forkhead box K1 [Source:MGI Symbol;Acc:MGI:1347488]	forkhead box K1 [Source:MGI Symbol;Acc:MGI:1347488]	P42128;A0A0G2JG71;Q99LQ5
424	**Setd1b**	4.83	1.43	0.30	0.00	SET domain containing 1B [Source:MGI Symbol;Acc:MGI:2652820]	SET domain containing 1B [Source:MGI Symbol;Acc:MGI:2652820]	Q8CFT2;G3UZ56;Q3URP1
425	**Elk4**	5.53	1.63	0.30	0.00	ELK4, member of ETS oncogene family [Source:MGI Symbol;Acc:MGI:102853]	ELK4, member of ETS oncogene family [Source:MGI Symbol;Acc:MGI:102853]	P41158;A0A1B0GXH8;C7C6A9;C7C6B0;C7C6B1;F6ZCI1;Q8C6Q0;Q8C9K0;Q99K98
426	**Rad54l2**	2.27	0.67	0.29	0.00	RAD54 like 2 (S. cerevisiae) [Source:MGI Symbol;Acc:MGI:1933196]	RAD54 like 2 (S. cerevisiae) [Source:MGI Symbol;Acc:MGI:1933196]	Q99NG0;A0A087WP96;A0A087WPJ6;E9QKL0;O35695;Q3UQR8
427	**Tusc5**	57.17	16.66	0.29	0.00	tumor suppressor candidate 5 [Source:MGI Symbol;Acc:MGI:3029307]	tumor suppressor candidate 5 [Source:MGI Symbol;Acc:MGI:3029307]	Q8C838
428	**Synpo**	6.54	1.90	0.29	0.00	synaptopodin [Source:MGI Symbol;Acc:MGI:1099446]	synaptopodin [Source:MGI Symbol;Acc:MGI:1099446]	Q8CC35;E0CYK1;E9Q3E2;Q3TA13;Q3TBE2;Q3TY32;Q3U336;Q3URF1;Q497V1
429	**Cd300ld4**	1.58	0.46	0.29	0.04	CD300 molecule like family member D4 MGI:3702658	CD300 molecule like family member D4 MGI:3702658	A2A7W1
430	**Purb**	4.49	1.29	0.29	0.00	purine rich element binding protein B [Source:MGI Symbol;Acc:MGI:1338779]	purine rich element binding protein B [Source:MGI Symbol;Acc:MGI:1338779]	O35295;Q3UTJ8;Q8BQK8;Q9D7C3
431	**Stox2**	1.42	0.40	0.28	0.01	storkhead box 2 [Source:MGI Symbol;Acc:MGI:1918319]	storkhead box 2 [Source:MGI Symbol;Acc:MGI:1918319]	Q499E5;A0A1B0GRU7;A0A1B0GT73;A0A1D5RMH0
432	**Lrrc58**	6.02	1.70	0.28	0.00	leucine rich repeat containing 58 [Source:MGI Symbol;Acc:MGI:2443542]	leucine rich repeat containing 58 [Source:MGI Symbol;Acc:MGI:2443542]	Q3UGP9;Q8BTI3

433	**Gatad2b**	4.22	1.19	0.28	0.01	GATA zinc finger domain containing 2B [Source:MGI Symbol;Acc:MGI:2443225]	GATA zinc finger domain containing 2B [Source:MGI Symbol;Acc:MGI:2443225]	Q8VHR5;A0A0U1RNM2;A1L3S7;Q69ZQ5;Q6PAH8
434	**Slc16a2**	2.09	0.58	0.28	0.00	solute carrier family 16 (monocarboxylic acid transporters), member 2 [Source:MGI Symbol;Acc:MGI:1203732]	solute carrier family 16 (monocarboxylic acid transporters), member 2 [Source:MGI Symbol;Acc:MGI:1203732]	O70324;Q05BA2
435	**Cgnl1**	32.86	9.04	0.27	0.00	cingulin-like 1 [Source:MGI Symbol;Acc:MGI:1915428]	cingulin-like 1 [Source:MGI Symbol;Acc:MGI:1915428]	Q6AW69;B2RSU6;B2RY19;D3Z3H4
436	**Lmtk2**	4.13	1.13	0.27	0.00	lemur tyrosine kinase 2 [Source:MGI Symbol;Acc:MGI:3036247]	lemur tyrosine kinase 2 [Source:MGI Symbol;Acc:MGI:3036247]	Q3TYD6
437	**Nfia**	9.18	2.47	0.27	0.01	nuclear factor I/A [Source:MGI Symbol;Acc:MGI:108056]	nuclear factor I/A [Source:MGI Symbol;Acc:MGI:108056]	Q02780;B1AUB6;B1AUB8;B1AUB9;B1AUC0;F7CDR2;Q05B39;Q3UTK6;Q69ZJ5;Q6DI81;Q8C6U6
438	**Rnf150**	2.43	0.65	0.27	0.01	ring finger protein 150 [Source:MGI Symbol;Acc:MGI:2443860]	ring finger protein 150 [Source:MGI Symbol;Acc:MGI:2443860]	Q5DTZ6;Q3TDH4
439	**Kctd12**	4.90	1.30	0.27	0.02	potassium channel tetramerisation domain containing 12 [Source:MGI Symbol;Acc:MGI:2145823]	potassium channel tetramerisation domain containing 12 [Source:MGI Symbol;Acc:MGI:2145823]	Q6WVG3;A0A0R4J2B2;Q14AX3;Q69ZA6;Q8C2V2;Q8CBQ4;Q8C7J6
440	**Megf9**	1.90	0.50	0.26	0.00	multiple EGF-like-domains 9 [Source:MGI Symbol;Acc:MGI:1918264]	multiple EGF-like-domains 9 [Source:MGI Symbol;Acc:MGI:1918264]	Q8BH27;F8WHT8;Q0VGR4
441	**Tet3**	4.13	1.09	0.26	0.00	tet methylcytosine dioxygenase 3 [Source:MGI Symbol;Acc:MGI:2446229]	tet methylcytosine dioxygenase 3 [Source:MGI Symbol;Acc:MGI:2446229]	Q8BG87;A0A087WP90;K9JH93;Q80U11;Q8BNB2
442	**Scd2**	4.05	1.06	0.26	0.01	stearoyl-Coenzyme A desaturase 2 [Source:MGI Symbol;Acc:MGI:98240]	stearoyl-Coenzyme A desaturase 2 [Source:MGI Symbol;Acc:MGI:98240]	P13011
443	**Irs1**	1.69	0.44	0.26	0.01	insulin receptor substrate 1 [Source:MGI Symbol;Acc:MGI:99454]	insulin receptor substrate 1 [Source:MGI Symbol;Acc:MGI:99454]	P35569;Q543V3
444	**Krt80**	1.27	0.33	0.26	0.01	keratin 80 [Source:MGI Symbol;Acc:MGI:1921377]	keratin 80 [Source:MGI Symbol;Acc:MGI:1921377]	Q0VBK2;A0A2R8VHR6;Q3TBQ1;Q8C1M7

445	**Amotl1**	9.48	2.42	0.26	0.00	angiomotin-like 1 [Source:MGI Symbol;Acc:MGI:1922973]	angiomotin-like 1 [Source:MGI Symbol;Acc:MGI:1922973]	Q9D4H4;A0A1Y7VL02;A0A1Y7VM69
446	**Ctif**	5.67	1.43	0.25	0.00	Cap Binding Complex Dependent Translation Initiation Factor MGI:2685518	Cap Binding Complex Dependent Translation Initiation Factor MGI:2685518	Q6PEE2;E9Q1U6
447	**Il6ra**	2.53	0.64	0.25	0.00	interleukin 6 receptor, alpha [Source:MGI Symbol;Acc:MGI:105304]	interleukin 6 receptor, alpha [Source:MGI Symbol;Acc:MGI:105304]	P22272;A0A0G2JGF1;Q3URV7;V9H161
448	**Zfp609**	4.85	1.22	0.25	0.01	zinc finger protein 609 [Source:MGI Symbol;Acc:MGI:2674092]	zinc finger protein 609 [Source:MGI Symbol;Acc:MGI:2674092]	Q8BZ47;B2RWS7;E0CYU4
449	**Nfib**	6.83	1.69	0.25	0.00	nuclear factor I/B [Source:MGI Symbol;Acc:MGI:103188]	nuclear factor I/B [Source:MGI Symbol;Acc:MGI:103188]	P97863;A2ADI3;A2BG75;A2BG76;A2BG77;I7HIP8;Q3UFE1;Q6GSP7;Q8C434;Q8C6T9;Q8C7G6
450	**Nrp2**	14.63	3.62	0.25	0.01	neuropilin 2 [Source:MGI Symbol;Acc:MGI:1100492]	neuropilin 2 [Source:MGI Symbol;Acc:MGI:1100492]	O35375;Q3U5I8;Q3URT2;Q8BPZ0;Q8K2T3;Q8QZY7;Q61220;A0A2R8VHV8;Q8BM06;Q8BM43
451	**Ryr2**	1.47	0.36	0.25	0.00	ryanodine receptor 2, cardiac [Source:MGI Symbol;Acc:MGI:99685]	ryanodine receptor 2, cardiac [Source:MGI Symbol;Acc:MGI:99685]	E9Q401;A0A1Y7VJP1;A0A1Y7VK09;F6U7V1;Q60835;Q80ZZ5;Q9CTT8
452	**Trp53inp2**	33.26	8.18	0.25	0.00	transformation related protein 53 inducible nuclear protein 2 [Source:MGI Symbol;Acc:MGI:1915978]	transformation related protein 53 inducible nuclear protein 2 [Source:MGI Symbol;Acc:MGI:1915978]	Q8CFU8;A2ARD0;A2ARD1;G3UXZ2;Q3TXH1;Q3UEJ3
453	**Nfic**	12.61	3.10	0.25	0.00	nuclear factor I/C [Source:MGI Symbol;Acc:MGI:109591]	nuclear factor I/C [Source:MGI Symbol;Acc:MGI:109591]	P70255;A0A1Y7VK55;F6XYU7;Q3UHA6;Q9D188
454	**Scd1**	947.99	231.07	0.24	0.00	stearoyl-Coenzyme A desaturase 1 [Source:MGI Symbol;Acc:MGI:98239]	stearoyl-Coenzyme A desaturase 1 [Source:MGI Symbol;Acc:MGI:98239]	P13516;Q3UXG5;Q547C4;P13011;Q99PL7;Q8BNZ5;Q6T707;Q8CFY4
455	**Ubn2**	1.99	0.49	0.24	0.00	ubinuclein 2 [Source:MGI Symbol;Acc:MGI:2444236]	ubinuclein 2 [Source:MGI Symbol;Acc:MGI:2444236]	Q80WC1;F6TB64;F6UTU1
456	**Foxo3**	1.40	0.34	0.24	0.01	forkhead box O3 [Source:MGI Symbol;Acc:MGI:1890081]	forkhead box O3 [Source:MGI Symbol;Acc:MGI:1890081]	Q9WVH4;H3BKE2;H9KUZ0;Q3TX10
457	**Zfhx4**	1.38	0.33	0.24	0.00	zinc finger homeodomain 4 [Source:MGI Symbol;Acc:MGI:2137668]	zinc finger homeodomain 4 [Source:MGI Symbol;Acc:MGI:2137668]	Q9JJN2;E9Q5A7;H3BLK8;Q6P8L4;Q8C4P4;Q8C8T0;V9GXP5

458	**Ttc28**	7.71	1.82	0.24	0.01	tetratricopeptide repeat domain 28 [Source:MGI Symbol;Acc:MGI:2140873]	tetratricopeptide repeat domain 28 [Source:MGI Symbol;Acc:MGI:2140873]	Q80XJ3;A0A0A0MQN9;Q3TA11;Q99LR2
459	**Tmem245**	3.79	0.88	0.23	0.00	transmembrane protein 245 [Source:MGI Symbol;Acc:MGI:2445107]	transmembrane protein 245 [Source:MGI Symbol;Acc:MGI:2445107]	B1AZA5;B1AZA8;D3YWD3;Q8C3N3
460	**Tnrc6b**	4.57	1.04	0.23	0.00	trinucleotide repeat containing 6b [Source:MGI Symbol;Acc:MGI:2443730]	trinucleotide repeat containing 6b [Source:MGI Symbol;Acc:MGI:2443730]	Q8BKI2;A0A2I3BPE5;A0A2I3BRG1;Q148P0;Q1LZM4;Q3TRH0;Q3TRK2;Q3U140;Q66JU9;Q8BWL0;Q8BX83;Q8BXV9;Q8BZH2;Q8VD67
461	**Deptor**	12.06	2.65	0.22	0.00	DEP domain containing MTOR-interacting protein [Source:MGI Symbol;Acc:MGI:2146322]	DEP domain containing MTOR-interacting protein [Source:MGI Symbol;Acc:MGI:2146322]	Q570Y9;A0A2I3BRE1;B2ZRS3;B2ZRS5;B2ZRS7
462	**Ankrd52**	10.44	2.24	0.21	0.01	ankyrin repeat domain 52 [Source:MGI Symbol;Acc:MGI:2444029]	ankyrin repeat domain 52 [Source:MGI Symbol;Acc:MGI:2444029]	Q8BTI7;F7BT68;Q3UNT7;Q8C036
463	**Sik1**	14.29	3.06	0.21	0.00	salt inducible kinase 1 [Source:MGI Symbol;Acc:MGI:104754]	salt inducible kinase 1 [Source:MGI Symbol;Acc:MGI:104754]	Q60670;Q571I6;Q8C313
464	**Cbl**	1.51	0.32	0.21	0.01	Casitas B-lineage lymphoma [Source:MGI Symbol;Acc:MGI:88279]	Casitas B-lineage lymphoma [Source:MGI Symbol;Acc:MGI:88279]	P22682;A0A0U1RNF1;A0A0U1RP17;A0A0U1RP47;A0A0U1RP95;A0A0U1RQ85;A0A0X1KG61;B1NE42
465	**Dusp8**	2.39	0.50	0.21	0.00	dual specificity phosphatase 8 [Source:MGI Symbol;Acc:MGI:106626]	dual specificity phosphatase 8 [Source:MGI Symbol;Acc:MGI:106626]	O09112;B7ZC52;Q7TSZ9;Q9D3I1
466	**Nr4a1**	8.58	1.78	0.21	0.01	nuclear receptor subfamily 4, group A, member 1 [Source:MGI Symbol;Acc:MGI:1352454]	nuclear receptor subfamily 4, group A, member 1 [Source:MGI Symbol;Acc:MGI:1352454]	P12813;A0A2R8VJZ1;Q545Q1
467	**Soga1**	7.14	1.46	0.20	0.00	suppressor of glucose, autophagy associated 1 [Source:MGI Symbol;Acc:MGI:2444575]	suppressor of glucose, autophagy associated 1 [Source:MGI Symbol;Acc:MGI:2444575]	E1U8D0;A2ACV6;Q69ZW6;Q8CBB8;Q8CD47
468	**Atxn1**	1.77	0.33	0.19	0.00	ataxin 1 [Source:MGI Symbol;Acc:MGI:104783]	ataxin 1 [Source:MGI Symbol;Acc:MGI:104783]	P54254;J3QPR1;Q3U2W8
469	**Hipk2**	10.23	1.92	0.19	0.00	homeodomain interacting protein kinase 2 [Source:MGI Symbol;Acc:MGI:1314872]	homeodomain interacting protein kinase 2 [Source:MGI Symbol;Acc:MGI:1314872]	Q9QZR5;A0A0R4J202;A0A0R4J204;Q5D0E9
470	**Gm32584**	7.05	1.30	0.18	0.00	predicted gene 32584 [Source:MGI Symbol;Acc:MGI:5591743]	predicted gene 32584 [Source:MGI Symbol;Acc:MGI:5591743]	

471	**Nfix**	20.70	3.28	0.16	0.00	nuclear factor I/X [Source:MGI Symbol;Acc:MGI:97311]	nuclear factor I/X [Source:MGI Symbol;Acc:MGI:97311]	P70257;D3YZ00;E9PUH7;Q3TYK3;Q5CZY4
472	**Irs2**	2.72	0.42	0.16	0.00	insulin receptor substrate 2 [Source:MGI Symbol;Acc:MGI:109334]	insulin receptor substrate 2 [Source:MGI Symbol;Acc:MGI:109334]	P81122;Q3U2I0
473	**Ino80d**	2.36	0.33	0.14	0.00	INO80 complex subunit D [Source:MGI Symbol;Acc:MGI:3027003]	INO80 complex subunit D [Source:MGI Symbol;Acc:MGI:3027003]	Q66JY2;B1AT32;B1AT33;B1AT34;E9Q9Q0
474	**Gdf15**	5.44	0.73	0.13	0.00	growth differentiation factor 15 [Source:MGI Symbol;Acc:MGI:1346047]	growth differentiation factor 15 [Source:MGI Symbol;Acc:MGI:1346047]	Q9Z0J7;Q3TU76;Q3UNI4
475	**Wipf2**	2.55	0.33	0.13	0.04	WAS/WASL interacting protein family, member 2 [Source:MGI Symbol;Acc:MGI:1924462]	WAS/WASL interacting protein family, member 2 [Source:MGI Symbol;Acc:MGI:1924462]	Q6PEV3;D3Z0K7
476	**Zbtb16**	4.25	0.52	0.12	0.00	zinc finger and BTB domain containing 16 [Source:MGI Symbol;Acc:MGI:103222]	zinc finger and BTB domain containing 16 [Source:MGI Symbol;Acc:MGI:103222]	A3KMN0;Q3UQ17
477	**Palm2**	4.35	0.52	0.12	0.00	paralemmin 2 [Source:MGI Symbol;Acc:MGI:1934601]	paralemmin 2 [Source:MGI Symbol;Acc:MGI:1934601]	Q8BR92
478	**Zfhx3**	3.06	0.36	0.12	0.00	zinc finger homeobox 3 [Source:MGI Symbol;Acc:MGI:99948]	zinc finger homeobox 3 [Source:MGI Symbol;Acc:MGI:99948]	Q61329;A0A087WQ36;E9QMD3;Q5DTG5;Q63ZY0;Q6P9K2;Q9CTR5
479	**Gm42383**	25.69	0.71	0.03	0.05	predicted gene 42383[Source:MGI Symbol;Acc:MGI:5625268]	predicted gene 42383[Source:MGI Symbol;Acc:MGI:5625268]	