

Table S4. DEG in the spleens of mice on the Mg2800 versus Mg500 diets*.

gene_name	SP_Mg2800	SP_Mg500	log2FoldChange (Mg2800 vs 0	pvalue	padj	-log10(pvalue)	gene_name	gene_description
Increased expression in Mg2800 versus Mg500								
G030460820Rik	10.3867402	0.14105086	5.42	0.001298811	0.980354196	2.886454042	G030460820Rik	RIKEN cDNA 6030460820 gene [Source:MGI Symbol;Acc:MGI:1924974]
Gm15385	11.4189689	0.3057014	5.15	0.00045432	0.980354196	3.342638144	Gm15385	predicted gene 15385 [Source:MGI Symbol;Acc:MGI:3705807]
Cdh15	5.45537639	0	4.90	0.025987035	0.980354196	1.585243269	Cdh15	cadherin 15 [Source:MGI Symbol;Acc:MGI:106672]
Hs3st6	4.01461372	0	4.46	0.027632303	0.980354196	1.558582918	Hs3st6	heparan sulfate (glucosamine) 3-O-sulfotransferase 6 [Source:MGI Symbol;Acc:MGI:3580487]
Cela2a	5.27084199	12.4787376	4.44	0.011961883	0.980354196	1.92220045	Cela2a	chymotrypsin-like elastase family, member 2A [Source:MGI Symbol;Acc:MGI:95316]
Mageb3	4.77051427	0.14105086	4.30	0.016617653	0.980354196	1.779430314	Mageb3	melanoma antigen, family B, 3 [Source:MGI Symbol;Acc:MGI:105109]
Gm38122	4.76494138	0.14105086	4.30	0.039165319	0.980354196	1.407098332	Gm38122	predicted gene, 38122 [Source:MGI Symbol;Acc:MGI:5611350]
Gm17271	6.24060476	0.26609143	4.27	0.016198199	0.980354196	1.79053327	Gm17271	predicted gene, 17271 [Source:MGI Symbol;Acc:MGI:4936905]
Gm43201	3.47186779	0	4.24	0.0486301	0.980354196	1.313094837	Gm43201	predicted gene 43201 [Source:MGI Symbol;Acc:MGI:5663338]
Gm37799	6.10200679	0.27280709	4.23	0.008522906	0.980354196	2.069412301	Gm37799	predicted gene, 37799 [Source:MGI Symbol;Acc:MGI:5611027]
Gm38414	5.99537728	0.27368506	4.22	0.019837641	0.980354196	1.702509973	Gm38414	predicted gene, 38414 [Source:MGI Symbol;Acc:MGI:5621299]
3830422106Rik	4.40111791	0.13304571	4.20	0.017394918	0.980354196	1.759577614	3830422106Rik	RIKEN cDNA 3830422106 gene [Source:MGI Symbol;Acc:MGI:1917958]
Gm43343	5.76196751	0.28589641	4.17	0.023847145	0.980354196	1.622563608	Gm43343	predicted gene 43343 [Source:MGI Symbol;Acc:MGI:5663480]
Rpl31-ps12	3.24680904	0	4.16	0.028923615	0.980354196	1.538747428	Rpl31-ps12	ribosomal protein L31, pseudogene 1 2 [Source:NCBI gene;Acc:665562]
Gm6450	3.99980627	0.13304571	4.04	0.026568633	0.980354196	1.57563079	Gm6450	predicted gene 6450 [Source:MGI Symbol;Acc:MGI:3648082]
Trbv4	5.23966834	0.27409658	4.03	0.017034598	0.980354196	1.768668111	Trbv4	T cell receptor beta, variable 10 [Source:MGI Symbol;Acc:MGI:98584]
Crabp1	3.81136905	0.1326342	3.97	0.034454118	0.980354196	1.462758863	Crabp1	cellular retinoic acid binding protein I [Source:MGI Symbol;Acc:MGI:88490]
Trav6-2	4.92988664	0.2652684	3.94	0.027200002	0.980354196	1.565431064	Trav6-2	T cell receptor alpha variable 6-2 [Source:MGI Symbol;Acc:MGI:3642602]
Gm572	3.60429584	0.13304571	3.91	0.032388316	0.980354196	1.489611632	Gm572	predicted gene 572 [Source:MGI Symbol;Acc:MGI:2685418]
Gm45471	3.50630532	0.13304571	3.86	0.040035871	0.980354196	1.397550719	Gm45471	predicted gene 45471 [Source:MGI Symbol;Acc:MGI:5791307]
Rpl29-ps2	4.51210122	0.27814731	3.79	0.017267524	0.980354196	1.762769932	Rpl29-ps2	ribosomal protein L29, pseudogene 2 [Source:MGI Symbol;Acc:MGI:3648624]
Gm16288	3.09956009	0.14922793	3.69	0.033878675	0.980354196	1.470073583	Gm16288	predicted gene 16288 [Source:MGI Symbol;Acc:MGI:3826608]
Gm2663	4.03694535	0.27409658	3.65	0.030778434	0.980354196	1.511753481	Gm2663	predicted gene 2663 [Source:MGI Symbol;Acc:MGI:3780832]
Tp1-ps5	5.32234502	0.42720332	3.63	0.019840906	0.980354196	1.7024385	Tp1-ps5	tumor protein, translationally-controlled, pseudogene 5 [Source:MGI Symbol;Acc:MGI:2664999]
Cntf	10.1951094	0.83706122	3.60	0.001311558	0.980354196	2.882212499	Cntf	ciliary neurotrophic factor [Source:MGI Symbol;Acc:MGI:88439]
Hist1h4a	6.94663028	0.6114028	3.55	0.023218246	0.980354196	1.634170592	Hist1h4a	histone cluster 1, H4a [Source:MGI Symbol;Acc:MGI:2448419]
Gm48600	7.77259184	0.663171	3.52	0.023406952	0.980354196	1.630655135	Gm48600	predicted gene, 48600 [Source:MGI Symbol;Acc:MGI:6098178]
Gm37294	2.71084142	0.13304571	3.49	0.041447228	0.980354196	1.382550451	Gm37294	predicted gene, 37294 [Source:MGI Symbol;Acc:MGI:5610522]
Gng13	6.29103455	0.57179282	3.47	0.030872008	0.980354196	1.510435122	Gng13	guanine nucleotide binding protein (G protein), gamma 13 [Source:MGI Symbol;Acc:MGI:1925616]
Syt5	15.2646859	1.42907481	3.42	8.83E-05	0.808227223	4.054039296	Syt5	synaptotagmin V [Source:MGI Symbol;Acc:MGI:1926368]
Gm45483	8.88403556	0.8277159	3.42	0.016654525	0.980354196	1.778467749	Gm45483	predicted gene 45483 [Source:MGI Symbol;Acc:MGI:5791319]
Cda	5.84994629	7.72137941	3.38	0.03204383	0.980354196	1.494255581	Cda	cytidine deaminase [Source:MGI Symbol;Acc:MGI:1919519]
Cel	8.58036684	8.82708586	3.38	0.022188173	0.980354196	1.653878457	Cel	carboxyl ester lipase [Source:MGI Symbol;Acc:MGI:88374]
Bpifa6	8.52088327	0.8362382	3.34	0.009491698	0.980354196	2.022656088	Bpifa6	BPI fold containing family A, member 6 [Source:MGI Symbol;Acc:MGI:3647736]
A830005F24Rik	10.1377896	1.00674525	3.34	9.95E-05	0.808227223	4.002176919	A830005F24Rik	RIKEN cDNA A830005F24 gene [Source:MGI Symbol;Acc:MGI:3045249]
Baiap2l2	8.317905	0.84630517	3.30	0.012914598	0.980354196	1.888919108	Baiap2l2	BAI1-associated protein 2-like 2 [Source:MGI Symbol;Acc:MGI:2652819]
Gm5514	3.06342549	0.3057014	3.25	0.049474804	0.980354196	1.305615918	Gm5514	predicted gene 5514 [Source:MGI Symbol;Acc:MGI:3645435]
Gm43868	6.39476588	0.66399403	3.23	0.026021124	0.980354196	1.584673948	Gm43868	predicted gene, 43868 [Source:MGI Symbol;Acc:MGI:5690260]
Gm17281	5.3201118	0.56799814	3.23	0.034138969	0.980354196	1.466749599	Gm17281	predicted gene, 17281 [Source:MGI Symbol;Acc:MGI:4936915]
Gm44702	6.03195298	0.6930387	3.10	0.022984846	0.980354196	1.638558402	Gm44702	predicted gene 44702 [Source:MGI Symbol;Acc:MGI:5753278]
Csf2	4.63062662	0.53977649	3.09	0.044101332	0.980354196	1.355548293	Csf2	colony stimulating factor 2 (granulocyte-macrophage) [Source:MGI Symbol;Acc:MGI:1339752]
Gm15694	5.87472617	0.70104385	3.07	0.019686485	0.980354196	1.705831282	Gm15694	predicted gene 15694 [Source:MGI Symbol;Acc:MGI:3783135]
Nudt8	9.04973628	1.06990177	3.06	0.018305823	0.980354196	1.737410741	Nudt8	nucleix (nucleoside diphosphate linked moiety X)-type motif 8 [Source:MGI Symbol;Acc:MGI:1913637]
AC126942.2	5.4429865	0.70525431	2.95	0.044905777	0.980354196	1.347697785	AC126942.2	novel transcript
Gm30292	6.98923955	0.94131831	2.87	0.046874431	0.980354196	1.329063991	Gm30292	predicted gene, 30292 [Source:MGI Symbol;Acc:MGI:5589451]
Gm23969	13.1252341	1.84001178	2.84	0.001055396	0.980354196	2.976584556	Gm23969	predicted gene, 23969 [Source:MGI Symbol;Acc:MGI:5453746]
Gm12919	4.91499556	0.69624107	2.80	0.01204267	0.980354196	1.919277214	Gm12919	predicted gene 12919 [Source:MGI Symbol;Acc:MGI:3652001]
Hspa1a	964.829666	145.131159	2.73	0.011726401	0.980354196	1.930835259	Hspa1a	heat shock protein 1A [Source:MGI Symbol;Acc:MGI:96244]
Gm43024	5.53322771	0.83029487	2.72	0.038620929	0.980354196	1.413177244	Gm43024	predicted gene 43024 [Source:MGI Symbol;Acc:MGI:5663161]
Gm15536	6.43099424	0.98091897	2.71	0.026834008	0.980354196	1.571314455	Gm15536	predicted gene 15536 [Source:MGI Symbol;Acc:MGI:3782984]
Gemin4	10.6299066	1.65472898	2.67	0.018486797	0.980354196	1.733138328	Gemin4	gem nuclear organelle associated protein 4 [Source:MGI Symbol;Acc:MGI:2449313]
Rpl30-ps3	12.3732034	2.00517442	2.63	0.000414648	0.980354196	3.382320425	Rpl30-ps3	ribosomal protein L30, pseudogene 3 [Source:MGI Symbol;Acc:MGI:1321401]
Cadps	5.91031055	0.96076161	2.62	0.045748317	0.980354196	1.339624878	Cadps	Ca2+-dependent secretion activator [Source:MGI Symbol;Acc:MGI:1350922]
Gm14862	3.38669241	0.55157633	2.61	0.044907801	0.980354196	1.347678211	Gm14862	predicted gene 14862 [Source:MGI Symbol;Acc:MGI:3705234]
2700016F22Rik	9.63891798	1.61470573	2.59	0.040328955	0.980354196	1.394383031	2700016F22Rik	RIKEN cDNA 2700016F22 gene [Source:MGI Symbol;Acc:MGI:1919807]
P4ha3	16.2059412	2.843155	2.52	0.015745973	0.980354196	1.802830498	P4ha3	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide III [Source:MGI Sym
Gm29724	8.03169042	1.40967708	2.51	0.049348167	0.980354196	1.306728974	Gm29724	predicted gene, 29724 [Source:MGI Symbol;Acc:MGI:5588883]
Hspa1b	2245.43538	406.8557	2.46	0.016328103	0.980354196	1.787064269	Hspa1b	heat shock protein 1B [Source:MGI Symbol;Acc:MGI:99517]
Gm12260	6.90109462	1.26984618	2.45	0.030773105	0.980354196	1.411469419	Gm12260	predicted gene 12260 [Source:MGI Symbol;Acc:MGI:3651326]
Gm6218	5.70541149	1.09879099	2.36	0.030734538	0.980354196	1.512373311	Gm6218	predicted gene 6218 [Source:MGI Symbol;Acc:MGI:3643171]
Gm47283	108.862522	21.3602059	2.35	0.026727469	0.980354196	1.573042166	Gm47283	predicted gene, 47283 [Source:MGI Symbol;Acc:MGI:6096131]
Gm17823	15.1236204	2.98318025	2.33	0.010288268	0.980354196	1.987657731	Gm17823	predicted gene, 17823 [Source:MGI Symbol;Acc:MGI:5010008]
Tmed6	6.38572519	1.29091531	2.31	0.036696971	0.980354196	1.435368711	Tmed6	transmembrane p24 trafficking protein 6 [Source:MGI Symbol;Acc:MGI:1913519]
Gm20540	11.3372427	2.27454843	2.31	0.031912544	0.980354196	1.496038573	Gm20540	predicted gene 20540 [Source:MGI Symbol;Acc:MGI:5142005]
Tent5b	12.3720937	2.52737739	2.29	0.026919685	0.980354196	1.569930026	Tent5b	terminal nucleotidyltransferase 5B [Source:MGI Symbol;Acc:MGI:2140500]
Gm37716	29.5607873	6.25447837	2.24	0.008477777	0.980354196	2.071718011	Gm37716	predicted gene, 37716 [Source:MGI Symbol;Acc:MGI:5610944]
Gm38037	29.2720768	6.3788618	2.19	0.01531251	0.980354196	1.814953615	Gm38037	predicted gene, 38037 [Source:MGI Symbol;Acc:MGI:5611265]
Rps12-ps10	11.7606485	2.8006053	2.06	0.03139901	0.980354196	1.503084045	Rps12-ps10	ribosomal protein S12, pseudogene 10 [Source:MGI Symbol;Acc:MGI:3649508]
Gm29560	16.0383529	3.88555737	2.04	0.024444624	0.980354196	1.611816639	Gm29560	predicted gene 29560 [Source:MGI Symbol;Acc:MGI:580266]
Hist1h1a	19.6505808	4.75059898	2.04	0.014968217	0.980354196	1.824829929	Hist1h1a	histone cluster 1, H1a [Source:MGI Symbol;Acc:MGI:1931523]
Olfr166	16.8499109	4.14785254	2.03	0.021172856	0.980354196	1.674220556	Olfr166	olfactory receptor 166 [Source:MGI Symbol;Acc:MGI:3030000]
Capn12	10.4219427	2.60687816	2.00	0.040381836	0.980354196	1.393813939	Capn12	calpain 12 [Source:MGI Symbol;Acc:MGI:1891369]
Rnf212	47.0344999	11.9468969	1.98	0.025068114	0.980354196	1.600878339	Rnf212	ring finger protein 212 [Source:MGI Symbol;Acc:MGI:3645767]
Gm15008	17.8717169	4.68267432	1.92	0.040375929	0.980354196	1.393877472	Gm15008	predicted gene 15008 [Source:MGI Symbol;Acc:MGI:3705107]
Gm32051	53.7635598	14.3198804	1.91	0.015148377	0.980354196	1.819633895	Gm32051	predicted gene, 32051 [Source:MGI Symbol;Acc:MGI:5591210]
Gm10575	13.3021807	3.55737588	1.89	0.03839435	0.980354196	1.41573268	Gm10575	predicted gene 10575 [Source:MGI Symbol;Acc:MGI:3708765]
Syng4	22.4689741	6.12714363	1.87	0.019913508	0.980354196	1.700852227	Syng4	synaptogyrin 4 [Source:MGI Symbol;Acc:MGI:1928903]

Gm7390	47.1026292	13.1663313	1.84	0.001402181	0.980354196	2.853195922	Gm7390
Guca2b	9.02268719	2.58830384	1.78	0.023980364	0.980354196	1.620144229	Guca2b
Ly6g6c	10.4603515	3.07386187	1.75	0.00930277	0.980354196	2.031387716	Ly6g6c
Nags	63.1873941	19.4040842	1.70	0.032466174	0.980354196	1.488568888	Nags
Gm26737	33.1744211	10.4721106	1.66	0.014850058	0.980354196	1.82827185	Gm26737
Gm28707	19.5571302	6.21884086	1.65	0.029077419	0.980354196	1.536444145	Gm28707
4933417C20Rik	8.8094059	2.77150335	1.65	0.040686845	0.980354196	1.390545986	4933417C20Rik
Fos	1489.83158	480.236122	1.63	0.031345989	0.980354196	1.503818023	Fos
Rnf223	11.1441574	3.59457705	1.62	0.027872154	0.980354196	1.554829467	Rnf223
Erfe	49.2204088	16.2613603	1.60	0.048573621	0.980354196	1.31359952	Erfe
Gm47196	26.0032948	8.8028547	1.56	0.01231058	0.980354196	1.909721485	Gm47196
Fbxo40	27.0267237	9.27596501	1.55	0.016780189	0.980354196	1.775203152	Fbxo40
Igkv3-7	534.894013	183.613985	1.54	0.013608442	0.980354196	1.866191593	Igkv3-7
Gm33023	14.8550596	5.27445931	1.50	0.046223281	0.980354196	1.335139231	Gm33023
Hist1h2ac	31.3521012	11.13009	1.50	0.013578938	0.980354196	1.867134195	Hist1h2ac
Fam110c	49.8012226	17.6318041	1.49	0.003080463	0.980354196	2.511384003	Fam110c
Gm38604	45.964785	16.3180311	1.49	0.04396285	0.980354196	1.356914161	Gm38604
Hcn2	59.0117164	20.9261727	1.49	0.000553126	0.980354196	3.257175927	Hcn2
Il1bos	15.4070248	5.5134128	1.48	0.04774265	0.980354196	1.321093497	Il1bos
Tex15	26.8723446	9.58353973	1.47	0.012183989	0.980354196	1.914210502	Tex15
Traj1	22.9273608	8.56755054	1.42	0.006718819	0.980354196	2.172707058	Traj1
Gm5837	12.001229	4.50267325	1.41	0.026087967	0.980354196	1.583559764	Gm5837
Gm11405	11.1564383	4.2226027	1.39	0.020325101	0.980354196	1.691967288	Gm11405
Igkv3-4	1477.28124	567.099137	1.38	0.041606838	0.980354196	1.380835288	Igkv3-4
Gm16378	16.7674226	6.45320523	1.37	0.031524786	0.980354196	1.501347853	Gm16378
Rpl7a-ps3	20.4576151	7.85652574	1.37	0.008478159	0.980354196	2.071698443	Rpl7a-ps3
Apol11a	71.3033382	27.6731361	1.36	0.013905406	0.980354196	1.856816326	Apol11a
Hsp1	4016.19099	1566.34458	1.36	0.008073723	0.980354196	2.092926155	Hsp1
Atf3	204.158197	80.378796	1.35	0.012824122	0.980354196	1.891972359	Atf3
4930438A08Rik	52.7050142	20.7015524	1.34	0.032607342	0.980354196	1.486684601	4930438A08Rik
Apol10c-ps	44.2539866	17.6436579	1.32	0.045355565	0.980354196	1.343369419	Apol10c-ps
Gm6736	11.6861723	4.70891797	1.32	0.043068268	0.980354196	1.365842593	Gm6736
Igkv19-93	1300.1283	523.980067	1.31	0.046743964	0.980354196	1.330274461	Igkv19-93
Gm5844	10.5898149	4.25394126	1.30	0.046392037	0.980354196	1.333556558	Gm5844
Gm10254	94.0930002	38.346353	1.29	0.002441536	0.980354196	2.612336868	Gm10254
Gm9575	26.5570895	10.911246	1.28	0.049282387	0.980354196	1.307308265	Gm9575
C130051F05Rik	42.284074	17.549264	1.27	0.021107731	0.980354196	1.675558449	C130051F05Rik
Gm12411	132.901503	55.7193172	1.25	0.016368653	0.980354196	1.785987058	Gm12411
Gm266	16.2979807	6.82445019	1.25	0.022649133	0.980354196	1.644948418	Gm266
Rnf128	33.6750066	14.2959376	1.23	0.047438248	0.980354196	1.323871359	Rnf128
Hist1h2ao	40.8516271	17.4594968	1.22	0.034593152	0.980354196	1.461009865	Hist1h2ao
Gm2614	44.4303897	19.2426929	1.21	0.001015761	0.980354196	2.993208466	Gm2614
Ttc6	28.5673476	12.4302336	1.20	0.009883269	0.980354196	2.005099384	Ttc6
Gm35585	26.3816485	11.4260161	1.20	0.046603875	0.980354196	1.331577971	Gm35585
Gm9108	37.3515384	16.3734774	1.19	0.001175168	0.980354196	2.929900043	Gm9108
Gm45353	23.9896866	10.5974298	1.17	0.009702648	0.980354196	2.013109724	Gm45353
Reep6	202.78616	90.0624152	1.17	0.009382257	0.980354196	2.027692675	Reep6
Prokr1	69.0349595	31.0339596	1.15	0.027892628	0.980354196	1.554510565	Prokr1
1110019D14Rik	55.220523	24.9221444	1.14	0.030256181	0.980354196	1.51918589	1110019D14Rik
Srsf12	19.3609169	8.82919655	1.14	0.047299312	0.980354196	1.325145176	Srsf12
Gm36932	18.1634099	8.32704872	1.12	0.047167898	0.980354196	1.326353477	Gm36932
Art4	610.232712	280.108146	1.12	0.00402839	0.980354196	2.394868491	Art4
Gm13669	13.7557951	6.30766341	1.12	0.049122473	0.980354196	1.308719777	Gm13669
Arhgef26	23.9151265	11.1585113	1.10	0.02546681	0.980354196	1.594025452	Arhgef26
mt-Ts2	75.8718324	35.6512414	1.09	0.002251805	0.980354196	2.647469221	mt-Ts2
Gdf15	122.093371	57.3506738	1.09	0.04445268	0.980354196	1.352102051	Gdf15
A730036117Rik	79.0314484	37.1388235	1.09	0.044648423	0.980354196	1.350193876	A730036117Rik
Gm13160	37.1837714	17.4394164	1.08	0.041130333	0.980354196	1.385837774	Gm13160
4933431K14Rik	65.3250526	31.6111688	1.04	0.035475465	0.980354196	1.450071903	4933431K14Rik
Gstm5	454.351366	221.837102	1.03	0.022834017	0.980354196	1.64141768	Gstm5
Comtd1	71.4269508	35.1123972	1.02	0.014911535	0.980354196	1.826477648	Comtd1
Gm8355	44.7063093	22.4511835	0.99	0.003579786	0.980354196	2.446142935	Gm8355
Igkv4-57	542.488457	274.281367	0.98	0.02548254	0.980354196	1.593757285	Igkv4-57
1700102P08Rik	65.0788573	32.9780721	0.98	0.014997094	0.980354196	1.823992886	1700102P08Rik
Noct	588.28841	298.383958	0.98	0.003201702	0.980354196	2.494619093	Noct
Gm13237	30.482691	15.4315909	0.98	0.048228334	0.980354196	1.31669774	Gm13237
Plk1	1348.64705	686.121654	0.97	0.044550572	0.980354196	1.351146716	Plk1
Gm10371	112.501843	57.2048932	0.97	0.03032287	0.980354196	1.518229696	Gm10371
Gm18194	120.572681	61.6694807	0.97	0.021638872	0.980354196	1.664765382	Gm18194
Hsp90aa1	19482.9673	10016.8152	0.96	0.007919461	0.980354196	2.101304375	Hsp90aa1
Ankrd55	49.218516	25.3416707	0.96	0.011316712	0.980354196	1.946279736	Ankrd55
Mcm10	845.797541	436.041082	0.96	0.019701043	0.980354196	1.705510781	Mcm10
Gm2541	36.9393759	19.0721687	0.95	0.04901227	0.980354196	1.306995183	Gm2541
Cdc45	641.371656	333.687435	0.94	0.015111682	0.980354196	1.820687194	Cdc45
1810044D09Rik	26.9647547	14.0708966	0.93	0.038393341	0.980354196	1.415744094	1810044D09Rik
Teddmd1	19.5768353	10.1908359	0.93	0.038596453	0.980354196	1.413452605	Teddmd1
Gm9625	25.6578598	13.5128546	0.92	0.041177153	0.980354196	1.385343684	Gm9625
Trbv17	49.1263778	26.1178942	0.91	0.039692644	0.980354196	1.420189971	Trbv17
Rfx2	673.369064	360.007231	0.90	0.013870243	0.980354196	1.85791593	Rfx2
Trem2	32.8920798	17.6466178	0.89	0.031118855	0.980354196	1.506976391	Trem2

predicted gene 7390 [Source:MGI Symbol;Acc:MGI:3645154]
 guanylate cyclase activator 2b (retina) [Source:MGI Symbol;Acc:MGI:1270851]
 lymphocyte antigen 6 complex, locus G6C [Source:MGI Symbol;Acc:MGI:2148930]
 N-acetylglutamate synthase [Source:MGI Symbol;Acc:MGI:2387600]
 predicted gene, 26737 [Source:MGI Symbol;Acc:MGI:5477231]
 predicted gene 28707 [Source:MGI Symbol;Acc:MGI:5579413]
 RIKEN cDNA 4933417C20 gene [Source:MGI Symbol;Acc:MGI:1918378]
 FBJ osteosarcoma oncogene [Source:MGI Symbol;Acc:MGI:95574]
 ring finger 223 [Source:MGI Symbol;Acc:MGI:3588193]
 erythroferrone [Source:MGI Symbol;Acc:MGI:3606476]
 predicted gene, 47196 [Source:MGI Symbol;Acc:MGI:6095990]
 F-box protein 40 [Source:MGI Symbol;Acc:MGI:2443753]
 immunoglobulin kappa variable 3-7 [Source:MGI Symbol;Acc:MGI:1330852]
 predicted gene, 33023 [Source:MGI Symbol;Acc:MGI:5592182]
 histone cluster 1, H2ac [Source:MGI Symbol;Acc:MGI:2448287]
 family with sequence similarity 110, member C [Source:MGI Symbol;Acc:MGI:1918813]
 predicted gene, 38604 [Source:MGI Symbol;Acc:MGI:5621489]
 hyperpolarization-activated, cyclic nucleotide-gated K+2 [Source:MGI Symbol;Acc:MGI:1298210]
 interleukin 1 beta, opposite strand [Source:MGI Symbol;Acc:MGI:3650458]
 testis expressed gene 15 [Source:MGI Symbol;Acc:MGI:1934816]
 T cell receptor alpha joining 1 [Source:MGI Symbol;Acc:MGI:4439841]
 predicted gene 5837 [Source:MGI Symbol;Acc:MGI:3648028]
 predicted gene 11405 [Source:MGI Symbol;Acc:MGI:3651226]
 immunoglobulin kappa variable 3-4 [Source:MGI Symbol;Acc:MGI:1330855]
 predicted gene 16378 [Source:MGI Symbol;Acc:MGI:3646886]
 ribosomal protein L7A, pseudogene 3 [Source:MGI Symbol;Acc:MGI:3643413]
 apolipoprotein L11a [Source:MGI Symbol;Acc:MGI:3649094]
 heat shock 105kDa/110kDa protein 1 [Source:MGI Symbol;Acc:MGI:105053]
 activating transcription factor 3 [Source:MGI Symbol;Acc:MGI:109384]
 RIKEN cDNA 4930438A08 gene [Source:MGI Symbol;Acc:MGI:1921238]
 apolipoprotein L10C, pseudogene [Source:MGI Symbol;Acc:MGI:3646982]
 predicted gene 6736 [Source:MGI Symbol;Acc:MGI:3643048]
 immunoglobulin kappa chain variable 19-93 [Source:MGI Symbol;Acc:MGI:107617]
 predicted gene 5844 [Source:MGI Symbol;Acc:MGI:3645252]
 predicted gene 10254 [Source:MGI Symbol;Acc:MGI:3708673]
 predicted gene 9575 [Source:MGI Symbol;Acc:MGI:3779984]
 RIKEN cDNA C130051F05 gene [Source:MGI Symbol;Acc:MGI:2443856]
 predicted gene 12411 [Source:MGI Symbol;Acc:MGI:3649918]
 predicted gene 266 [Source:MGI Symbol;Acc:MGI:2685112]
 ring finger protein 128 [Source:MGI Symbol;Acc:MGI:1914139]
 histone cluster 1, H2ao [Source:MGI Symbol;Acc:MGI:2448302]
 predicted gene 2614 [Source:MGI Symbol;Acc:MGI:3780782]
 tetratricopeptide repeat domain 6 [Source:MGI Symbol;Acc:MGI:2684915]
 predicted gene, 35585 [Source:MGI Symbol;Acc:MGI:5594744]
 predicted gene 9108 [Source:MGI Symbol;Acc:MGI:3648830]
 predicted gene 45353 [Source:MGI Symbol;Acc:MGI:5791189]
 receptor accessory protein 6 [Source:MGI Symbol;Acc:MGI:1917585]
 prokineticin receptor 1 [Source:MGI Symbol;Acc:MGI:1929676]
 RIKEN cDNA 1110019D14 gene [Source:MGI Symbol;Acc:MGI:1923561]
 serine/arginine-rich splicing factor 12 [Source:MGI Symbol;Acc:MGI:2661424]
 predicted gene, 36932 [Source:MGI Symbol;Acc:MGI:5610160]
 ADP-ribosyltransferase 4 [Source:MGI Symbol;Acc:MGI:1202710]
 predicted gene 13669 [Source:MGI Symbol;Acc:MGI:3651174]
 Rho guanine nucleotide exchange factor (GEF) 26 [Source:MGI Symbol;Acc:MGI:1918053]
 mitochondrially encoded tRNA serine 2 [Source:MGI Symbol;Acc:MGI:102474]
 growth differentiation factor 15 [Source:MGI Symbol;Acc:MGI:1346047]
 RIKEN cDNA A730036117 gene [Source:MGI Symbol;Acc:MGI:3041182]
 predicted gene 13160 [Source:MGI Symbol;Acc:MGI:3649984]
 RIKEN cDNA 4933431K14 gene [Source:MGI Symbol;Acc:MGI:1918545]
 glutathione S-transferase, mu 5 [Source:MGI Symbol;Acc:MGI:1309466]
 catechol-O-methyltransferase domain containing 1 [Source:MGI Symbol;Acc:MGI:1916406]
 predicted pseudogene 8355 [Source:MGI Symbol;Acc:MGI:3645191]
 immunoglobulin kappa variable 4-57 [Source:MGI Symbol;Acc:MGI:2685035]
 RIKEN cDNA 1700102P08 gene [Source:MGI Symbol;Acc:MGI:2148248]
 nocturnin [Source:MGI Symbol;Acc:MGI:109382]
 predicted gene 13237 [Source:MGI Symbol;Acc:MGI:3649924]
 polo like kinase 1 [Source:MGI Symbol;Acc:MGI:97621]
 predicted gene 10371 [Source:MGI Symbol;Acc:MGI:3642716]
 predicted gene, 18194 [Source:MGI Symbol;Acc:MGI:5010379]
 heat shock protein 90, alpha (cytosolic), class A member 1 [Source:MGI Symbol;Acc:MGI:96250]
 ankyrin repeat domain 55 [Source:MGI Symbol;Acc:MGI:1924568]
 minichromosome maintenance 10 replication initiation factor [Source:MGI Symbol;Acc:MGI:1917274]
 predicted pseudogene 2541 [Source:MGI Symbol;Acc:MGI:3780709]
 cell division cycle 45 [Source:MGI Symbol;Acc:MGI:1338073]
 RIKEN cDNA 1810044D09 gene [Source:MGI Symbol;Acc:MGI:1917048]
 transmembrane epididymal family member 2 [Source:MGI Symbol;Acc:MGI:1923273]
 predicted gene 9625 [Source:MGI Symbol;Acc:MGI:3780033]
 T cell receptor beta, variable 17 [Source:MGI Symbol;Acc:MGI:98610]
 regulatory factor X, 2 (influences HLA class II expression) [Source:MGI Symbol;Acc:MGI:106583]
 triggering receptor expressed on myeloid cells 2 [Source:MGI Symbol;Acc:MGI:1913150]

Rundc3a	189.988372	102.657507	0.88	0.00074703	0.980354196	3.126661957	Rundc3a	RUN domain containing 3A [Source:MGI Symbol;Acc:MGI:1858752]
Isg20	3480.48219	1891.4571	0.88	0.011743202	0.980354196	1.930213469	Isg20	interferon-stimulated protein [Source:MGI Symbol;Acc:MGI:1928895]
Gm13408	69.1323597	37.5709602	0.88	0.006011154	0.980354196	2.221042146	Gm13408	predicted gene 13408 [Source:MGI Symbol;Acc:MGI:3649613]
Mcp4t	50.6943444	27.7249214	0.87	0.040459433	0.980354196	1.392980208	Mcp4t	mast cell protease 4 [Source:MGI Symbol;Acc:MGI:96940]
Snca	5485.57788	3010.34138	0.87	0.010424284	0.980354196	1.981953765	Snca	synuclein, alpha [Source:MGI Symbol;Acc:MGI:1277151]
Rad51c	187.373122	103.176474	0.86	0.037189402	0.980354196	1.429580805	Rad51c	RAD51 paralog C [Source:MGI Symbol;Acc:MGI:2150020]
Rps27a-ps2	184.819575	102.031652	0.85	0.012728326	0.980354196	1.89522871	Rps27a-ps2	ribosomal protein S27A, pseudogene 2 [Source:MGI Symbol;Acc:MGI:3643614]
Sh3y1	201.052435	111.085019	0.85	0.043808125	0.980354196	1.358445334	Sh3y1	Sh3 domain YSC-like 1 [Source:MGI Symbol;Acc:MGI:1346118]
Gm6274	66.0259101	36.4545411	0.85	0.02600128	0.980354196	1.585005272	Gm6274	predicted gene 6274 [Source:MGI Symbol;Acc:MGI:3645367]
Recq4l	337.049731	187.052289	0.85	0.023146055	0.980354196	1.635523019	Recq4l	RecQ protein-like 4 [Source:MGI Symbol;Acc:MGI:1931028]
Aldh1a1	2047.23125	1138.79925	0.85	0.024323453	0.980354196	1.613974772	Aldh1a1	aldehyde dehydrogenase family 1, subfamily A1 [Source:MGI Symbol;Acc:MGI:1353450]
Hist2h4	56.051266	31.0347924	0.84	0.045963697	0.980354196	1.337585047	Hist2h4	histone cluster 2, H4 [Source:MGI Symbol;Acc:MGI:2140113]
Gm10243	110.152296	61.4999419	0.84	0.024613737	0.980354196	1.608822444	Gm10243	predicted gene 10243 [Source:MGI Symbol;Acc:MGI:3704266]
M1ap	120.722437	67.9046291	0.83	0.031734413	0.980354196	1.498469531	M1ap	meiosis 1 associated protein [Source:MGI Symbol;Acc:MGI:1315200]
Dhfr	700.333686	395.914686	0.82	0.022387639	0.980354196	1.649991705	Dhfr	dihydrofolate reductase [Source:MGI Symbol;Acc:MGI:94890]
Zfpm1	6001.30168	3399.48798	0.82	0.030498301	0.980354196	1.515724354	Zfpm1	zinc finger protein, multitype 1 [Source:MGI Symbol;Acc:MGI:1095400]
Gm12346	192.69641	109.174641	0.82	0.031899027	0.980354196	1.496222564	Gm12346	predicted gene 12346 [Source:MGI Symbol;Acc:MGI:3649810]
Hba-a1	274619.003	155895.73	0.82	0.025124423	0.980354196	1.599903903	Hba-a1	hemoglobin alpha, adult chain 1 [Source:MGI Symbol;Acc:MGI:96015]
Mybl2	1027.38074	583.50433	0.82	0.028771039	0.980354196	1.541044454	Mybl2	myeloblastosis oncogene-like 2 [Source:MGI Symbol;Acc:MGI:101785]
Chtf18	548.731314	312.566553	0.81	0.014887254	0.980354196	1.827185402	Chtf18	CTF18, chromosome transmission fidelity factor 18 [Source:MGI Symbol;Acc:MGI:2384887]
Gm4739	147.194551	272.893163	0.81	0.024705771	0.980354196	1.607201588	Gm4739	predicted gene 4739 [Source:MGI Symbol;Acc:MGI:3642984]
1810055G02Rik	434.425773	76.818528	0.80	0.029165592	0.980354196	1.535129204	1810055G02Rik	RIKEN cDNA 1810055G02 gene [Source:MGI Symbol;Acc:MGI:1919306]
Ccne2	645.871876	369.884275	0.80	0.045771919	0.980354196	1.339400879	Ccne2	cyclin E2 [Source:MGI Symbol;Acc:MGI:1329034]
Ttk	284.34703	162.784774	0.80	0.037190401	0.980354196	1.42959539	Ttk	Ttk protein kinase [Source:MGI Symbol;Acc:MGI:1194921]
Ube2o	6244.73721	3591.79975	0.80	0.016074212	0.980354196	1.793870308	Ube2o	ubiquitin-conjugating enzyme E2O [Source:MGI Symbol;Acc:MGI:2444266]
Nt5c3	3371.06551	1945.13156	0.79	0.044208142	0.980354196	1.354497737	Nt5c3	5'-nucleotidase, cytosolic III [Source:MGI Symbol;Acc:MGI:1927186]
Stip1	4766.77091	2754.08264	0.79	0.01131128	0.980354196	1.946488247	Stip1	stress-induced phosphoprotein 1 [Source:MGI Symbol;Acc:MGI:109130]
Gm17828	100.72395	58.4122403	0.78	0.011260645	0.980354196	1.948436733	Gm17828	predicted gene, 17828 [Source:MGI Symbol;Acc:MGI:5010013]
Tll12	1737.97232	1016.93779	0.77	0.034605222	0.980354196	1.46085836	Tll12	tubulin tyrosine ligase-like family, member 12 [Source:MGI Symbol;Acc:MGI:3039573]
Gm15542	281.917161	165.833504	0.77	0.015561503	0.980354196	1.807948459	Gm15542	predicted gene 15542 [Source:MGI Symbol;Acc:MGI:3782990]
Ggt7	55.3515887	32.5890497	0.76	0.031449165	0.980354196	1.502390881	Ggt7	gamma-glutamyltransferase 7 [Source:MGI Symbol;Acc:MGI:1913385]
Pif1	382.701963	225.754981	0.76	0.043827224	0.980354196	1.358256037	Pif1	Pif1 5'-to-3' DNA helicase [Source:MGI Symbol;Acc:MGI:2143057]
Gm27003	71.4919839	42.3508819	0.76	0.020129605	0.980354196	1.696164747	Gm27003	predicted gene, 27003 [Source:MGI Symbol;Acc:MGI:5504118]
Rgcc	784.436895	463.459998	0.76	0.044833355	0.980354196	1.34839876	Rgcc	regulator of cell cycle [Source:MGI Symbol;Acc:MGI:1913464]
Gm2810	52.2479613	31.0207893	0.75	0.01932355	0.980354196	1.713913085	Gm2810	predicted pseudogene 2810 [Source:MGI Symbol;Acc:MGI:3780980]
Ube2i6	8118.00037	4816.18155	0.75	0.01046659	0.980354196	1.980194788	Ube2i6	ubiquitin-conjugating enzyme E2L 6 [Source:MGI Symbol;Acc:MGI:1914500]
Pip5k1b	425.554546	252.504791	0.75	0.044608455	0.980354196	1.350582818	Pip5k1b	phosphatidylinositol-4-phosphate 5-kinase, type 1 beta [Source:MGI Symbol;Acc:MGI:107930]
Cdca7	1106.5206	567.202206	0.75	0.008809333	0.980354196	2.055056973	Cdca7	cell division cycle associated 7 [Source:MGI Symbol;Acc:MGI:1914203]
Odc1	8506.74589	5055.92977	0.75	0.048278827	0.980354196	1.31624329	Odc1	ornithine decarboxylase, structural 1 [Source:MGI Symbol;Acc:MGI:97402]
Fam213a	2782.35739	1658.29191	0.75	0.030676476	0.980354196	1.515194532	Fam213a	family with sequence similarity 213, member A [Source:MGI Symbol;Acc:MGI:1917814]
Cenpn	383.857938	200.260513	0.74	0.040574155	0.980354196	1.391750516	Cenpn	centromere protein N [Source:MGI Symbol;Acc:MGI:1919405]
Lymr4	259.676726	156.311121	0.73	0.044215361	0.980354196	1.354426825	Lymr4	LYR motif containing 4 [Source:MGI Symbol;Acc:MGI:2683538]
Ighg1	3024.28415	1824.95023	0.73	0.047017932	0.980354196	1.3277736476	Ighg1	immunoglobulin heavy constant gamma 1 (G1m marker) [Source:MGI Symbol;Acc:MGI:96446]
Dnaj4	477.811273	288.317317	0.73	0.041004481	0.980354196	1.387168681	Dnaj4	DnaJ heat shock protein family (Hsp40) member A4 [Source:MGI Symbol;Acc:MGI:1927638]
Ddias	237.450833	143.213343	0.73	0.042908658	0.980354196	1.367455902	Ddias	DNA damage-induced apoptosis suppressor [Source:MGI Symbol;Acc:MGI:1921291]
Gm6807	178.926574	108.273851	0.72	0.014045666	0.980354196	1.852457663	Gm6807	predicted gene 6807 [Source:MGI Symbol;Acc:MGI:3649145]
Alas2	22695.2007	13756.9453	0.72	0.015760257	0.980354196	1.802436733	Alas2	aminolevulinic acid synthase 2, erythroid [Source:MGI Symbol;Acc:MGI:87990]
Gm12070	26.097858	15.8293455	0.72	0.038746723	0.980354196	1.411765022	Gm12070	predicted gene 12070 [Source:MGI Symbol;Acc:MGI:3650751]
Snrprt	134.838464	81.7653031	0.72	0.027236358	0.980354196	1.564850966	Snrprt	small nuclear ribonucleoprotein E, pseudogene [Source:MGI Symbol;Acc:MGI:3650419]
Uhrf1	2935.69927	1793.25133	0.71	0.04082502	0.980354196	1.389073594	Uhrf1	ubiquitin-like, containing PHD and RING finger domains, 1 [Source:MGI Symbol;Acc:MGI:1338889]
Cln2	289.473138	176.592866	0.71	0.028879537	0.980354196	1.539409774	Cln2	chloride channel, voltage-sensitive 2 [Source:MGI Symbol;Acc:MGI:105061]
Tmem86b	357.445357	218.471522	0.71	0.001765483	0.980354196	2.75313646	Tmem86b	transmembrane protein 86B [Source:MGI Symbol;Acc:MGI:1915505]
Cdr2	4520.14112	2770.34638	0.71	0.034544519	0.980354196	1.456162085	Cdr2	cerebellar degeneration-related 2 [Source:MGI Symbol;Acc:MGI:1100885]
Rps19bp1	320.055938	196.078399	0.71	0.005913097	0.980354196	2.228184997	Rps19bp1	ribosomal protein S19 binding protein 1 [Source:MGI Symbol;Acc:MGI:1913788]
Pask	217.984995	133.378008	0.71	0.018227998	0.980354196	1.739261028	Pask	PAS domain containing serine/threonine kinase [Source:MGI Symbol;Acc:MGI:2155936]
Fam210b	1522.97099	934.922753	0.70	0.032404665	0.980354196	1.489392464	Fam210b	family with sequence similarity 210, member B [Source:MGI Symbol;Acc:MGI:1914267]
Rpl19-ps1	30.0125139	18.4349477	0.70	0.046996865	0.980354196	1.327931111	Rpl19-ps1	ribosomal protein L19, pseudogene 1 [Source:MGI Symbol;Acc:MGI:3642668]
NcapH	1024.15797	632.740846	0.69	0.040905624	0.980354196	1.388216978	NcapH	non-SMC condensin I complex, subunit H [Source:MGI Symbol;Acc:MGI:2444777]
Wdr55	763.495657	472.510685	0.69	0.006065938	0.980354196	2.217102033	Wdr55	WD repeat domain 55 [Source:MGI Symbol;Acc:MGI:1915186]
Hagh	1987.01598	1230.53588	0.69	0.046951171	0.980354196	1.328353572	Hagh	hydroxyacyl glutathione hydrolase [Source:MGI Symbol;Acc:MGI:95745]
Trip13	206.938807	128.130556	0.69	0.027692609	0.980354196	1.557636126	Trip13	thyroid hormone receptor interactor 13 [Source:MGI Symbol;Acc:MGI:1916966]
Snim5	224.396971	139.376276	0.69	0.044810536	0.980354196	1.348619861	Snim5	small integral membrane protein 5 [Source:MGI Symbol;Acc:MGI:1913778]
Tedc2	327.928773	203.98634	0.68	0.007344974	0.980354196	2.134009737	Tedc2	tubulin epsilon and delta complex 2 [Source:MGI Symbol;Acc:MGI:1919266]
Gm14269	52.761716	32.7453951	0.68	0.034453763	0.980354196	1.462763338	Gm14269	predicted gene 14269 [Source:MGI Symbol;Acc:MGI:3650060]
Rpp38	113.654766	70.707903	0.68	0.017166366	0.980354196	1.765321632	Rpp38	ribonuclease P/MRP 38 subunit [Source:MGI Symbol;Acc:MGI:2443607]
Gm7666	168.361176	105.510186	0.67	0.002819126	0.980354196	2.549885513	Gm7666	predicted pseudogene 7666 [Source:MGI Symbol;Acc:MGI:3648907]
Gpr83	86.9321432	54.260989	0.67	0.047023265	0.980354196	1.327687219	Gpr83	G protein-coupled receptor 83 [Source:MGI Symbol;Acc:MGI:95712]
Gm14648	60.4479567	37.7875289	0.67	0.034546076	0.980354196	1.361050974	Gm14648	predicted gene 14648 [Source:MGI Symbol;Acc:MGI:3705508]
Slc6a20a	177.336644	110.981743	0.67	0.019416673	0.980354196	1.711825183	Slc6a20a	solute carrier family 6 (neurotransmitter transporter), member 20A [Source:MGI Symbol;Acc:MGI:2143217]
Dnajb1	2092.24738	1311.75415	0.67	0.026910293	0.980354196	1.570081574	Dnajb1	DnaJ heat shock protein family (Hsp40) member B1 [Source:MGI Symbol;Acc:MGI:1931874]
Pnp0	2106.29564	1321.24693	0.67	0.043224613	0.980354196	1.364268886	Pnp0	pyridoxine 5'-phosphate oxidase [Source:MGI Symbol;Acc:MGI:2144151]
Rpl3-ps2	30.9158153	19.3378173	0.67	0.043762798	0.980354196	1.358894919	Rpl3-ps2	ribosomal protein L3, pseudogene 2 [Source:MGI Symbol;Acc:MGI:3645345]
Fxn	425.993937	268.138604	0.67	0.045435682	0.980354196	1.342602949	Fxn	frataxin [Source:MGI Symbol;Acc:MGI:1096879]
Fkbp4	4155.47601	2618.41042	0.67	0.031997002	0.980354196	1.494890712	Fkbp4	FK506 binding protein 4 [Source:MGI Symbol;Acc:MGI:95543]
Sapcd2	122.412114	77.0380361	0.67	0.039712633	0.980354196	1.401071318	Sapcd2	suppressor APC domain containing 2 [Source:MGI Symbol;Acc:MGI:1919330]
Knstrn	696.081575	439.452659	0.66	0.033355753	0.980354196	1.476829251	Knstrn	kinetochore-localized astrin/SPAG5 binding [Source:MGI Symbol;Acc:MGI:1289298]
Abcg2	1134.88051	717.010759	0.66	0.049684298	0.980354196	1.303780842	Abcg2	ATP binding cassette subfamily G member 2 (Junior blood group) [Source:MGI Symbol;Acc:MGI:1347061]
Txn14b	266.026865	168.218141	0.66	0.000636745	0.980354196	1.396034457	Txn14b	thioredoxin-like 4B [Source:MGI Symbol;Acc:MGI:2443724]
Tent5c	9703.03789	6156.22132	0.66	0.038271477	0.980354196	1.417124777	Tent5c	terminal nucleotidyltransferase 5C [Source:MGI Symbol;Acc:MGI:1921895]
Pradc1	194.637013	123.724937	0.65	0.00123311	0.980354196	2.90899818	Pradc1	protease-associated domain containing 1 [Source:MGI Symbol;Acc:MGI:1920577]

Gm19680	44.3373012	28.0686816	0.65	0.037325648	0.980354196	1.427992644	Gm19680	predicted gene, 19680 [Source:MGI Symbol;Acc:MGI:5011865]
Pelo	159.530548	101.679019	0.65	0.02208347	0.980354196	1.655932684	Pelo	pelota mRNA surveillance and ribosome rescue factor [Source:MGI Symbol;Acc:MGI:2145154]
Fancf	132.62198	84.6985372	0.65	0.01735591	0.980354196	1.760552611	Fancf	Fanconi anemia, complementation group F [Source:MGI Symbol;Acc:MGI:3689889]
Tceal8	342.093824	218.581097	0.64	0.043900001	0.980354196	1.35753547	Tceal8	transcription elongation factor A (SII)-like 8 [Source:MGI Symbol;Acc:MGI:1913934]
Ier5l	164.3296159	105.340139	0.64	0.009063703	0.980354196	2.042694334	Ier5l	immediate early response 5-like [Source:MGI Symbol;Acc:MGI:1919750]
Mkrm1	11104.0562	7132.69151	0.64	0.026188531	0.980354196	1.581888862	Mkrm1	makorin, ring finger protein, 1 [Source:MGI Symbol;Acc:MGI:1859353]
Mcm6	5050.50122	3250.86474	0.64	0.049515472	0.980354196	1.305259077	Mcm6	minichromosome maintenance complex component 6 [Source:MGI Symbol;Acc:MGI:1298227]
Dapk2	574.174539	369.426967	0.64	0.049014948	0.980354196	1.309671454	Dapk2	death-associated protein kinase 2 [Source:MGI Symbol;Acc:MGI:1341297]
Iscal	4808.04309	3103.31993	0.63	0.035193039	0.980354196	1.453543229	Iscal	iron-sulfur cluster assembly 1 [Source:MGI Symbol;Acc:MGI:1916296]
Fam83g	142.084572	91.5413748	0.63	0.017225035	0.980354196	1.763839887	Fam83g	family with sequence similarity 83, member G [Source:MGI Symbol;Acc:MGI:1916890]
Hspa8	45528.1227	29412.4302	0.63	0.030716065	0.980354196	1.512634422	Hspa8	heat shock protein 8 [Source:MGI Symbol;Acc:MGI:105384]
Prr11	489.265623	316.98049	0.63	0.046499994	0.980354196	1.332547103	Prr11	proline rich 11 [Source:MGI Symbol;Acc:MGI:2444496]
Nfil3	175.663482	114.019141	0.62	0.030516912	0.980354196	1.515459415	Nfil3	nuclear factor, interleukin 3, regulated [Source:MGI Symbol;Acc:MGI:109495]
Foxd2os	104.595218	68.0356536	0.62	0.005671807	0.980354196	2.246278556	Foxd2os	forkhead box D2, opposite strand [Source:MGI Symbol;Acc:MGI:2444065]
Ahi1	292.720098	191.280989	0.61	0.0204324	0.980354196	1.689680618	Ahi1	Abelson helper integration site 1 [Source:MGI Symbol;Acc:MGI:879771]
Mthfd2	1240.34919	813.065567	0.61	0.040997836	0.980354196	1.387239066	Mthfd2	methylenetetrahydrofolate dehydrogenase (NAD+ dependent), methylenetetrahydrofolate cyclohydrolase [Source
Dnaj1	4580.77463	3012.50352	0.60	0.040344646	0.980354196	1.394214091	Dnaj1	DnaJ heat shock protein family (Hsp40) member A1 [Source:MGI Symbol;Acc:MGI:1270129]
Pcvox1l	243.358643	160.091193	0.60	0.047112999	0.980354196	1.32685925	Pcvox1l	prenylcysteine oxidase 1 like [Source:MGI Symbol;Acc:MGI:3606062]
Mrp135	470.395461	310.532396	0.60	0.020393912	0.980354196	1.690499459	Mrp135	mitochondrial ribosomal protein L35 [Source:MGI Symbol;Acc:MGI:1913473]
Erc6l	442.066988	292.683592	0.59	0.020075413	0.980354196	1.697335511	Erc6l	excision repair cross-complementing rodent repair deficiency complementation group 6 like [Source:MGI Symbol,
Tipin	863.334536	572.386507	0.59	0.04930776	0.980354196	1.307084727	Tipin	timeless interacting protein [Source:MGI Symbol;Acc:MGI:1921571]
Bpgm	10134.9585	6741.47254	0.59	0.019797301	0.980354196	1.703394014	Bpgm	2,3-bisphosphoglycerate mutase [Source:MGI Symbol;Acc:MGI:1098242]
Ddx28	315.18172	209.778822	0.59	0.022055313	0.980354196	1.656486775	Ddx28	DEAD (Asp-Glu-Ala-Asp) box polypeptide 28 [Source:MGI Symbol;Acc:MGI:1919236]
Pole2	323.950174	216.211036	0.58	0.042708949	0.980354196	1.369481116	Pole2	polymerase (DNA directed), epsilon 2 (p59 subunit) [Source:MGI Symbol;Acc:MGI:1197514]
Kctd7	312.894036	209.251436	0.58	0.033648056	0.980354196	1.473040022	Kctd7	potassium channel tetramerisation domain containing 7 [Source:MGI Symbol;Acc:MGI:2442265]
Cyp7b1	2539.86389	1700.85333	0.58	0.03364278	0.980354196	1.476718269	Cyp7b1	membrane-associated ring finger (C3HC4) 5 [Source:MGI Symbol;Acc:MGI:1915207]
	52.5871827	35.068816	0.58	0.048167235	0.980354196	1.317248283		cytochrome P450, family 7, subfamily b, polypeptide 1 [Source:MGI Symbol;Acc:MGI:104978]
Nasp	2309.55393	1547.81064	0.58	0.043176936	0.980354196	1.36474818	Nasp	nuclear autoantigenic sperm protein (histone-binding) [Source:MGI Symbol;Acc:MGI:1355328]
Gm29216	157.528634	105.674745	0.58	0.020566659	0.980354196	1.686836253	Gm29216	predicted gene 29216 [Source:MGI Symbol;Acc:MGI:5579922]
Gm32220	95.6098937	64.2321526	0.57	0.031122609	0.980354196	1.506924003	Gm32220	predicted gene, 32220 [Source:MGI Symbol;Acc:MGI:5591379]
Mcm4	3198.79661	2157.16176	0.57	0.039734309	0.980354196	1.400834335	Mcm4	minichromosome maintenance complex component 4 [Source:MGI Symbol;Acc:MGI:103199]
Ppil1	1013.55114	685.532938	0.56	0.028547833	0.980354196	1.544226852	Ppil1	peptidylprolyl isomerase (cyclophilin)-like 1 [Source:MGI Symbol;Acc:MGI:1916066]
Ahsa1	2450.15159	1662.29513	0.56	0.048290347	0.980354196	1.316139674	Ahsa1	AHA1, activator of heat shock protein ATPase 1 [Source:MGI Symbol;Acc:MGI:2387603]
Srm	1298.73055	835.58622	0.56	0.039372475	0.980354196	1.404807284	Srm	spermidine synthase [Source:MGI Symbol;Acc:MGI:102690]
Cish	199.93513	134.772284	0.56	0.02862391	0.980354196	1.543271042	Cish	cytokine inducible SH2-containing protein [Source:MGI Symbol;Acc:MGI:103159]
Crat	1513.32124	1027.7984	0.56	0.030465596	0.980354196	1.516190321	Crat	carnitine acetyltransferase [Source:MGI Symbol;Acc:MGI:109501]
Perm1	126.241272	85.6488618	0.56	0.037418765	0.980354196	1.42691055	Perm1	PPARGC1 and ESRR induced regulator, muscle 1 [Source:MGI Symbol;Acc:MGI:1921433]
Foxm1	850.528488	580.897386	0.55	0.048736203	0.980354196	1.312148309	Foxm1	forkhead box M1 [Source:MGI Symbol;Acc:MGI:1347487]
Slc25a13	165.806468	113.225505	0.54	0.027056686	0.980354196	1.567725398	Slc25a13	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 13 [Source:MGI Symbol
Bcor1	519.609579	355.992818	0.54	0.045272679	0.980354196	1.344163805	Bcor1	BCL6 co-repressor-like 1 [Source:MGI Symbol;Acc:MGI:2443910]
Gins4	705.150455	486.212754	0.54	0.023919407	0.980354196	1.621249601	Gins4	GIN5 complex subunit 4 (Slf5 homolog) [Source:MGI Symbol;Acc:MGI:1923847]
Cox19	323.179858	222.600796	0.54	0.01434449	0.980354196	1.843314888	Cox19	cytochrome c oxidase assembly protein 19 [Source:MGI Symbol;Acc:MGI:1915283]
Mthfd1	2148.01316	1488.06794	0.53	0.038654546	0.980354196	1.412799423	Mthfd1	methylenetetrahydrofolate dehydrogenase (NADP+ dependent), methylenetetrahydrofolate cyclohydrolase, formy
Psmc3	5475.42457	3796.59387	0.53	0.023182582	0.980354196	1.634838195	Psmc3	proteasome (prosome, macropain) activator subunit 3 (PA28 gamma, Ki) [Source:MGI Symbol;Acc:MGI:1096366]
Tubg1	640.423031	443.802691	0.53	0.039895633	0.980354196	1.39907464	Tubg1	tubulin, gamma 1 [Source:MGI Symbol;Acc:MGI:101834]
Fads2	337.027623	233.354606	0.53	0.012825386	0.980354196	1.891929555	Fads2	fatty acid desaturase 2 [Source:MGI Symbol;Acc:MGI:1930079]
Mrp140	570.859361	397.015269	0.52	0.02257007	0.980354196	1.646467009	Mrp140	mitochondrial ribosomal protein L40 [Source:MGI Symbol;Acc:MGI:1332635]
Aars	3025.10678	2106.37499	0.52	0.039651526	0.980354196	1.401744094	Aars	alanyl-tRNA synthetase [Source:MGI Symbol;Acc:MGI:2384560]
Agf2	880.82768	613.393475	0.52	0.027946471	0.980354196	1.553673026	Agf2	ArfGAP with FG repeats 2 [Source:MGI Symbol;Acc:MGI:2443267]
Fam220a	3671.48356	2569.13025	0.51	0.046011431	0.980354196	1.33713426	Fam220a	family with sequence similarity 220, member A [Source:MGI Symbol;Acc:MGI:1914488]
2700097009Rik	1461.77436	136.468344	0.51	0.045814962	0.980354196	1.338992669	2700097009Rik	RIKEN cDNA 2700097009 gene [Source:MGI Symbol;Acc:MGI:1919908]
Ptges3	3006.55796	2107.65375	0.51	0.045041294	0.980354196	1.346389141	Ptges3	prostaglandin E synthase 3 [Source:MGI Symbol;Acc:MGI:1929282]
Rbm14	1461.77436	1024.97957	0.51	0.016822903	0.980354196	1.774099059	Rbm14	RNA binding motif protein 14 [Source:MGI Symbol;Acc:MGI:1929092]
Gm11427	525.926149	368.756636	0.51	0.03478638	0.980354196	1.458590763	Gm11427	predicted gene 11427 [Source:MGI Symbol;Acc:MGI:3651774]
Mrp147	280.865294	197.877636	0.50	0.039162107	0.980354196	1.40713395	Mrp147	mitochondrial ribosomal protein L47 [Source:MGI Symbol;Acc:MGI:1921850]
Med7	314.242227	221.43417	0.50	0.01041177	0.980354196	1.982375045	Med7	mediator complex subunit 7 [Source:MGI Symbol;Acc:MGI:1913463]
Chordc1	1960.77299	1386.45924	0.50	0.048649561	0.980354196	1.312921074	Chordc1	cysteine and histidine-rich domain (CHORD)-containing, zinc-binding protein 1 [Source:MGI Symbol;Acc:MGI:1914
Vcp-rs	1740.03729	1233.27382	0.50	0.004726407	0.980354196	1.325468883	Vcp-rs	valosin containing protein, related sequence [Source:MGI Symbol;Acc:MGI:894298]
Xrcc2	222.017183	157.460049	0.49	0.028747811	0.980354196	1.541395219	Xrcc2	X-ray repair complementing defective repair in Chinese hamster cells 2 [Source:MGI Symbol;Acc:MGI:1927345]
Rph3al	151.507702	107.876309	0.49	0.003553222	0.980354196	2.449377658	Rph3al	rabphilin 3A-like (without C2 domains) [Source:MGI Symbol;Acc:MGI:1923492]
Rbbp8	948.982658	675.678988	0.49	0.018213805	0.980354196	1.739599317	Rbbp8	retinoblastoma binding protein 8, endonuclease [Source:MGI Symbol;Acc:MGI:2442995]
Haus7	334.332923	238.17235	0.49	0.032194678	0.980354196	1.658628834	Haus7	HAUS augmin-like complex, subunit 7 [Source:MGI Symbol;Acc:MGI:1920988]
mt-Atp6	276.071289	197.070469	0.49	0.031355654	0.980354196	1.503684137	mt-Atp6	mitochondrially encoded ATP synthase 6 [Source:MGI Symbol;Acc:MGI:99927]
mt-Co2	892.835805	636.678318	0.49	0.026647946	0.980354196	1.57433626	mt-Co2	mitochondrially encoded cytochrome c oxidase II [Source:MGI Symbol;Acc:MGI:102503]
Gm11847	493.155049	352.320149	0.48	0.028763304	0.980354196	1.541161229	Gm11847	predicted gene 11847 [Source:MGI Symbol;Acc:MGI:3651877]
Prob1	113.403982	81.3438356	0.48	0.048462826	0.980354196	1.314591265	Prob1	proline rich basic protein 1 [Source:MGI Symbol;Acc:MGI:2686460]
Fntb	522.999183	373.987045	0.48	0.024677365	0.980354196	1.607701215	Fntb	farnesyltransferase, CAAX box, beta [Source:MGI Symbol;Acc:MGI:1861305]
Ddx31	394.362814	282.163291	0.48	0.011198553	0.980354196	1.95083809	Ddx31	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 31 [Source:MGI Symbol;Acc:MGI:2682639]
Mocos	137.249724	98.1293215	0.48	0.048414204	0.980354196	1.315027204	Mocos	molybdenum cofactor sulfurase [Source:MGI Symbol;Acc:MGI:1915841]
Smyd2	211.904666	151.615884	0.48	0.028611599	0.980354196	1.54345787	Smyd2	SET and MYND domain containing 2 [Source:MGI Symbol;Acc:MGI:1915889]
Snx3	2988.41005	2149.87345	0.47	0.03900718	0.980354196	1.408855446	Snx3	sorting nexin 3 [Source:MGI Symbol;Acc:MGI:1860188]
Gm4737	247.052962	177.468161	0.47	0.021289187	0.980354196	1.671840923	Gm4737	predicted gene 4737 [Source:MGI Symbol;Acc:MGI:3643647]
Noa1	823.98098	593.547619	0.47	0.041120475	0.980354196	1.385941277	Noa1	nitric oxide associated 1 [Source:MGI Symbol;Acc:MGI:1914306]
Impdh2-ps	1016.4436	733.314809	0.47	0.035441119	0.980354196	1.450492574	Impdh2-ps	inosine monophosphate dehydrogenase 2, pseudogene [Source:MGI Symbol;Acc:MGI:3705743]
Seph2	769.54137	555.636807	0.47	0.040430668	0.980354196	1.393289083	Seph2	selenophosphate synthetase 2 [Source:MGI Symbol;Acc:MGI:108388]
Myc	1610.05301	1163.03815	0.47	0.00954207	0.980354196	2.020357402	Myc	myelocytomatosis oncogene [Source:MGI Symbol;Acc:MGI:97250]
Xrcc6	1122.34474	812.358115	0.47	0.026323366	0.980354196	1.579658578	Xrcc6	X-ray repair complementing defective repair in Chinese hamster cells 6 [Source:MGI Symbol;Acc:MGI:95606]
Dcaf12	4417.74101	3205.66908	0.46	0.035769885	0.980354196	1.446482456	Dcaf12	DDB1 and CUL4 associated factor 12 [Source:MGI Symbol;Acc:MGI:1916220]
Ppid	1714.84433	1244.34274	0.46	0.001330973	0.980354196	2.875830754	Ppid	peptidylprolyl isomerase D (cyclophilin D) [Source:MGI Symbol;Acc:MGI:1914988]
Vegfb	551.75157	401.251324	0.46	0.009095703	0.980354196	2.041163729	Vegfb	vascular endothelial growth factor B [Source:MGI Symbol;Acc:MGI:106199]

Apeh	2536.07412	1851.5686	0.45	0.04533313	0.980354196	1.343584294	Apeh	acylpeptide hydrolase [Source:MGI Symbol;Acc:MGI:88041]
Med26	384.48092	280.741728	0.45	0.000369853	0.980354196	3.431970854	Med26	mediator complex subunit 26 [Source:MGI Symbol;Acc:MGI:1917875]
Fcf1	704.235049	514.368625	0.45	0.048840968	0.980354196	1.311215737	Fcf1	FCF1 rRNA processing protein [Source:MGI Symbol;Acc:MGI:1920986]
Gars	2606.41828	1908.48737	0.45	0.034495912	0.980354196	1.462232369	Gars	glycyl-tRNA synthetase [Source:MGI Symbol;Acc:MGI:2449057]
Bbip1	475.673593	348.050592	0.45	0.027670291	0.980354196	1.557986273	Bbip1	BBSome interacting protein 1 [Source:MGI Symbol;Acc:MGI:1913610]
Tmem237	105.780762	77.3395805	0.45	0.043207538	0.980354196	1.364440479	Tmem237	transmembrane protein 237 [Source:MGI Symbol;Acc:MGI:2138365]
Ncbp1	2114.1595	1553.98572	0.44	0.022850491	0.980354196	1.641104464	Ncbp1	nuclear cap binding protein subunit 1 [Source:MGI Symbol;Acc:MGI:1891840]
Mthfd1l	1367.3716	1006.1323	0.44	0.017176367	0.980354196	1.765068689	Mthfd1l	methylene tetrahydrofolate dehydrogenase [NADP+ dependent] 1-like [Source:MGI Symbol;Acc:MGI:1924836]
Nelfe	805.429602	593.983602	0.44	0.044399338	0.980354196	1.352623505	Nelfe	negative elongation factor complex member E, Rdbp [Source:MGI Symbol;Acc:MGI:102744]
Gabarrap12	1406.51747	1037.46988	0.44	0.020019443	0.980354196	1.69854801	Gabarrap12	gamma-aminobutyric acid (GABA) A receptor-associated protein-like 2 [Source:MGI Symbol;Acc:MGI:1890602]
Hspa14	1422.3557	1049.86027	0.44	0.016934205	0.980354196	1.771235187	Hspa14	heat shock protein 14 [Source:MGI Symbol;Acc:MGI:1354164]
Vcpkmt	245.170385	181.14794	0.44	0.04418358	0.980354196	1.354739098	Vcpkmt	valosin containing protein lysine (K) methyltransferase [Source:MGI Symbol;Acc:MGI:2684917]
Elp5	673.508294	498.421253	0.43	0.030574217	0.980354196	1.514644656	Elp5	elongator acetyltransferase complex subunit 5 [Source:MGI Symbol;Acc:MGI:1859017]
Umps	933.746952	691.14701	0.43	0.046049022	0.980354196	1.336779589	Umps	uridine monophosphate synthetase [Source:MGI Symbol;Acc:MGI:1298388]
Babam2	804.524346	596.650082	0.43	0.049550983	0.980354196	1.304947725	Babam2	BRISC and BRCA1 A complex member 2 [Source:MGI Symbol;Acc:MGI:1338375]
Tmem70	543.541169	402.998561	0.43	0.013245888	0.980354196	1.877918921	Tmem70	transmembrane protein 70 [Source:MGI Symbol;Acc:MGI:1915068]
Lrrc14	644.757914	478.789346	0.43	0.02058214	0.980354196	1.686509472	Lrrc14	leucine rich repeat containing 14 [Source:MGI Symbol;Acc:MGI:2445060]
Nimnat3	217.0664	161.182714	0.43	0.04930268	0.980354196	1.307129473	Nimnat3	nicotinamide nucleotide adenyllyltransferase 3 [Source:MGI Symbol;Acc:MGI:1921330]
Txn14a	395.472126	295.26664	0.42	0.042308556	0.980354196	1.373571797	Txn14a	thioredoxin-like 4A [Source:MGI Symbol;Acc:MGI:1351613]
Prpf3	905.013785	676.203827	0.42	0.00908777	0.980354196	2.041542673	Prpf3	pre-mRNA processing factor 3 [Source:MGI Symbol;Acc:MGI:1918017]
Pdzd11	396.139894	296.137632	0.42	0.035833005	0.980354196	1.44571677	Pdzd11	PDZ domain containing 11 [Source:MGI Symbol;Acc:MGI:1919871]
Ppp1r8	1137.7776	851.916792	0.42	0.037348258	0.980354196	1.42772965	Ppp1r8	protein phosphatase 1, regulatory subunit 8 [Source:MGI Symbol;Acc:MGI:2140494]
Ppp2r1b	1697.57548	1271.70783	0.42	0.035498404	0.980354196	1.449791172	Ppp2r1b	protein phosphatase 2, regulatory subunit A, beta [Source:MGI Symbol;Acc:MGI:1920949]
Cptp	259.471398	194.346609	0.41	0.030595051	0.980354196	1.514348819	Cptp	ceramide-1-phosphate transfer protein [Source:MGI Symbol;Acc:MGI:1933107]
Cinp	639.144808	479.735795	0.41	0.048085571	0.980354196	1.317985222	Cinp	cyclin-dependent kinase 2 interacting protein [Source:MGI Symbol;Acc:MGI:1914486]
Msh6	1699.31635	1276.40302	0.41	0.034688789	0.980354196	1.459810861	Msh6	mutS homolog 6 [Source:MGI Symbol;Acc:MGI:1343961]
Twnk	458.204127	344.377154	0.41	0.021631627	0.980354196	1.664910814	Twnk	twinkle mtDNA helicase [Source:MGI Symbol;Acc:MGI:2137410]
Trim27	2272.94557	1712.8869	0.41	0.020828023	0.980354196	1.681351951	Trim27	tripartite motif-containing 27 [Source:MGI Symbol;Acc:MGI:97904]
Eif2b1	678.837389	511.960034	0.41	0.031664313	0.980354196	1.49942993	Eif2b1	eukaryotic translation initiation factor 2B, subunit 1 (alpha) [Source:MGI Symbol;Acc:MGI:2384802]
Cndfbp1	2325.61682	1756.05592	0.40	0.030903774	0.980354196	1.509988481	Cndfbp1	cyclin D-type binding-protein 1 [Source:MGI Symbol;Acc:MGI:109595]
Tmem33	1149.40416	868.010463	0.40	0.045553683	0.980354196	1.341476505	Tmem33	transmembrane protein 33 [Source:MGI Symbol;Acc:MGI:1915128]
1700017B05Rik	1582.9288	1196.86806	0.40	0.032850627	0.980354196	1.483456377	1700017B05Rik	RIKEN cDNA 1700017B05 gene [Source:MGI Symbol;Acc:MGI:1921461]
Nudt5	768.972566	581.512002	0.40	0.019700515	0.980354196	1.705522421	Nudt5	nudix (nucleoside diphosphate linked moiety X)-type motif 5 [Source:MGI Symbol;Acc:MGI:1858232]
ArmC5	923.453254	698.935672	0.40	0.001619647	0.980354196	2.790579629	ArmC5	armadillo repeat containing 5 [Source:MGI Symbol;Acc:MGI:2384586]
Thap7	577.377922	438.339041	0.40	0.034643488	0.980354196	1.460378389	Thap7	THAP domain containing 7 [Source:MGI Symbol;Acc:MGI:1916259]
Pinx1	241.231424	183.21258	0.40	0.047568054	0.980354196	1.322684615	Pinx1	PIN2/TERF1 interacting, telomerase inhibitor 1 [Source:MGI Symbol;Acc:MGI:1919650]
Prrm5	1134.42931	861.798211	0.40	0.021037718	0.980354196	1.677001371	Prrm5	protein arginine N-methyltransferase 5 [Source:MGI Symbol;Acc:MGI:1351645]
Ppm1d	832.070625	632.071714	0.40	0.019142031	0.980354196	1.718011985	Ppm1d	protein phosphatase 1D magnesium-dependent, delta isoform [Source:MGI Symbol;Acc:MGI:1858214]
Brix1	836.540895	636.424811	0.39	0.045899415	0.980354196	1.33857149	Brix1	BRX1, biogenesis of ribosomes [Source:MGI Symbol;Acc:MGI:1915082]
Ubash3a	429.484575	327.05773	0.39	0.019365705	0.980354196	1.712966688	Ubash3a	ubiquitin associated and SH3 domain containing, A [Source:MGI Symbol;Acc:MGI:1926074]
Alg3	301.409303	229.283911	0.39	0.036532549	0.980354196	1.437320025	Alg3	asparagine-linked glycosylation 3 (alpha-1,3-mannosyltransferase) [Source:MGI:1098592]
YdjC	163.102798	124.313013	0.39	0.025264095	0.980354196	1.597496254	YdjC	YdjC homolog (bacterial) [Source:MGI Symbol;Acc:MGI:1916351]
Rae1	1433.39121	1092.68392	0.39	0.020763925	0.980354196	1.682690548	Rae1	ribonucleic acid export 1 [Source:MGI Symbol;Acc:MGI:1913929]
Gmps	1474.34548	1128.64265	0.39	0.041303553	0.980354196	1.384012588	Gmps	guanine monophosphate synthetase [Source:MGI Symbol;Acc:MGI:2448526]
Top1	3407.93565	2614.93658	0.38	0.044580802	0.980354196	1.352049277	Top1	topoisomerase (DNA) I [Source:MGI Symbol;Acc:MGI:98788]
PrcC	1451.64945	1116.0474	0.38	0.03409932	0.980354196	1.467254282	PrcC	papillary renal cell carcinoma (translocation-associated) [Source:MGI Symbol;Acc:MGI:2137738]
Gpbp1	2635.003	2027.64037	0.38	0.033531085	0.980354196	1.474552393	Gpbp1	GC-rich promoter binding protein 1 [Source:MGI Symbol;Acc:MGI:1920524]
VkorC11	964.419859	745.256468	0.37	0.042269212	0.980354196	1.373975848	VkorC11	vitamin K epoxide reductase complex, subunit 1-like 1 [Source:MGI Symbol;Acc:MGI:1916818]
Bora	434.263411	335.906511	0.37	0.039399752	0.980354196	1.404050512	Bora	bora, aurora kinase A activator [Source:MGI Symbol;Acc:MGI:1924994]
Gzf29	446.037911	345.467683	0.37	0.045134228	0.980354196	1.345493982	Gzf29	SAGA complex associated factor 29 [Source:MGI Symbol;Acc:MGI:1922815]
Kiz	393.062615	304.524293	0.37	0.013640868	0.980354196	1.865157994	Kiz	kizuna centrosomal protein [Source:MGI Symbol;Acc:MGI:2684960]
Ssbp2	333.742375	258.410032	0.37	0.020673229	0.980354196	1.684591685	Ssbp2	single-stranded DNA binding protein 2 [Source:MGI Symbol;Acc:MGI:1914220]
Lonp1	2060.85987	1600.97521	0.36	0.022976879	0.980354196	1.638708963	Lonp1	lon peptidase 1, mitochondrial [Source:MGI Symbol;Acc:MGI:1921392]
Cpt2	505.59215	392.334661	0.36	0.0135863	0.980354196	1.86689898	Cpt2	carntine palmitoyltransferase 2 [Source:MGI Symbol;Acc:MGI:109176]
Mettl16	935.626814	728.777936	0.36	0.0095742	0.980354196	2.018897505	Mettl16	methyltransferase like 16 [Source:MGI Symbol;Acc:MGI:1914743]
Ints13	1251.41226	977.156672	0.36	0.032223146	0.980354196	1.491832061	Ints13	integrator complex subunit 13 [Source:MGI Symbol;Acc:MGI:1918427]
Wdr46	897.569493	701.622423	0.35	0.045240657	0.980354196	1.344471097	Wdr46	WD repeat domain 46 [Source:MGI Symbol;Acc:MGI:1931871]
Hs1bp3	334.667199	262.466804	0.35	0.006572042	0.980354196	2.18229967	Hs1bp3	HCLS1 binding protein 3 [Source:MGI Symbol;Acc:MGI:1913224]
Heatr3	773.935573	607.084462	0.35	0.019035467	0.980354196	1.720436464	Heatr3	HEAT repeat containing 3 [Source:MGI Symbol;Acc:MGI:2444491]
Mycbp	217.986049	171.285669	0.35	0.047008271	0.980354196	1.327825722	Mycbp	MYC binding protein [Source:MGI Symbol;Acc:MGI:1891750]
Asb3	408.846143	321.588949	0.35	0.044733566	0.980354196	1.34936648	Asb3	ankyrin repeat and SOCS box-containing 3 [Source:MGI Symbol;Acc:MGI:1929749]
Cdc5l	1568.89223	1550.98949	0.34	0.027066197	0.980354196	1.567572762	Cdc5l	cell division cycle 5-like (S. pombe) [Source:MGI Symbol;Acc:MGI:1918952]
Nolc1	2168.14891	1709.38942	0.34	0.033030896	0.980354196	1.481079645	Nolc1	nucleolar and colled-body phosphoprotein 1 [Source:MGI Symbol;Acc:MGI:1918019]
Mcu	490.427828	386.892645	0.34	0.029584	0.980354196	1.528943106	Mcu	mitochondrial calcium uniporter [Source:MGI Symbol;Acc:MGI:3026965]
Helq	421.980332	333.347152	0.34	0.034164174	0.980354196	1.466429075	Helq	helicase, POLQ-like [Source:MGI Symbol;Acc:MGI:2176740]
Nsmc2	313.215363	247.293558	0.34	0.021319623	0.980354196	1.635643721	Nsmc2	NSE2/MM5C1 homolog, SMC5-SMC6 complex SUMO ligase [Source:MGI Symbol;Acc:MGI:1915751]
Ptpn12	1029.43252	814.444157	0.34	0.020242332	0.980354196	1.693739456	Ptpn12	protein tyrosine phosphatase, non-receptor type 12 [Source:MGI Symbol;Acc:MGI:104673]
Gm13456	468.242231	371.042731	0.34	0.039929755	0.980354196	1.398703355	Gm13456	predicted gene 13456 [Source:MGI Symbol;Acc:MGI:3651389]
Uch13	473.062368	374.656054	0.34	0.046958091	0.980354196	1.328289567	Uch13	ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase) [Source:MGI Symbol;Acc:MGI:1355274]
Gm6136	3787.82494	3003.66643	0.33	0.035042157	0.980354196	1.455409169	Gm6136	predicted pseudogene 6136 [Source:MGI Symbol;Acc:MGI:3646897]
Chst10	477.071445	378.26683	0.33	0.03754775	0.980354196	1.425416082	Chst10	carbohydrate sulfotransferase 10 [Source:MGI Symbol;Acc:MGI:2138283]
Tfg	985.114626	781.758145	0.33	0.007035918	0.980354196	2.152679231	Tfg	Trk-fused gene [Source:MGI Symbol;Acc:MGI:1338041]
Nelfa	862.352205	684.673109	0.33	0.010909701	0.980354196	1.962187152	Nelfa	negative elongation factor complex member A, Whsc2 [Source:MGI Symbol;Acc:MGI:1346098]
Psm6	1506.87396	1196.46592	0.33	0.040680849	0.980354196	1.390609992	Psm6	proteasome (prosome, macropain) 26S subunit, non-ATPase, 6 [Source:MGI Symbol;Acc:MGI:1913663]
Zdhc6	940.275666	747.453698	0.33	0.025150925	0.980354196	1.599446038	Zdhc6	zinc finger, DHHC domain containing 6 [Source:MGI Symbol;Acc:MGI:1914230]
Desi1	891.398403	710.334592	0.33	0.045928286	0.980354196	1.337919762	Desi1	desumoylating isopeptidase 1 [Source:MGI Symbol;Acc:MGI:106313]
Nufip1	427.108161	341.50257	0.32	0.034456452	0.980354196	1.462729444	Nufip1	nuclear fragile X mental retardation protein interacting protein 1 [Source:MGI Symbol;Acc:MGI:1351474]
Pak4	456.405676	365.844437	0.32	0.025949562	0.980354196	1.585869968	Pak4	p21 (RAC1) activated kinase 4 [Source:MGI Symbol;Acc:MGI:1917834]
Nup54	739.324363	593.664151	0.32	0.032229948	0.980354196	1.491740395	Nup54	nucleoporin 54 [Source:MGI Symbol;Acc:MGI:1920460]
Cdkn2aipnl	1500.42798	1206.43146	0.31	0.044826843	0.980354196	1.348461846	Cdkn2aipnl	CDKN2A interacting protein N-terminal like [Source:MGI Symbol;Acc:MGI:1261797]

Wbp11	2373.0651	1910.18573	0.31	0.021551771	0.980354196	1.666517036	Wbp11	WW domain binding protein 11 [Source:MGI Symbol;Acc:MGI:1891823]
Gtpbp4	1882.13179	1516.1677	0.31	0.028020736	0.980354196	1.552520462	Gtpbp4	GTP binding protein 4 [Source:MGI Symbol;Acc:MGI:1916487]
Stn1	324.265424	261.379121	0.31	0.030337399	0.980354196	1.518021657	Stn1	STN1, CST complex subunit [Source:MGI Symbol;Acc:MGI:1915581]
Rpf1	732.181394	591.446219	0.31	0.02222463	0.980354196	1.653165461	Rpf1	ribosome production factor 1 homolog [Source:MGI Symbol;Acc:MGI:1917535]
Gnl3	1246.05932	1010.98794	0.30	0.037047407	0.980354196	1.431242184	Gnl3	guanine nucleotide binding protein-like 3 (nucleolar) [Source:MGI Symbol;Acc:MGI:1353651]
Sfpq	8532.85152	6939.72902	0.30	0.047117921	0.980354196	1.32681388	Sfpq	splicing factor proline/glutamine rich (polypyrimidine tract binding protein associated) [Source:MGI Symbol;Acc:MGI:1915402]
Rfx1	1398.87795	1138.42876	0.30	0.022494139	0.980354196	1.647930626	Rfx1	regulatory factor X, 1 (influences HLA class II expression) [Source:MGI Symbol;Acc:MGI:105982]
Rbm10	2029.62215	1650.90288	0.30	0.030571622	0.980354196	1.514681519	Rbm10	RNA binding motif protein 10 [Source:MGI Symbol;Acc:MGI:2384310]
Fam133b	574.816865	467.848561	0.30	0.041105825	0.980354196	1.386096631	Fam133b	family with sequence similarity 133, member B [Source:MGI Symbol;Acc:MGI:1915402]
Tra2b	3099.3772	2527.25456	0.29	0.034741282	0.980354196	1.45915416	Tra2b	transformer 2 beta [Source:MGI Symbol;Acc:MGI:106016]
Nup93	1066.72217	869.863884	0.29	0.019930082	0.980354196	1.700490914	Nup93	nucleoporin 93 [Source:MGI Symbol;Acc:MGI:1919055]
Rprd1b	1341.67594	1094.91667	0.29	0.045177464	0.980354196	1.345078151	Rprd1b	regulation of nuclear pre-mRNA domain containing 18 [Source:MGI Symbol;Acc:MGI:1917720]
Taf5l	1096.38099	895.109283	0.29	0.030180663	0.980354196	1.520271224	Taf5l	TATA-box binding protein associated factor 5 like [Source:MGI Symbol;Acc:MGI:1919039]
Slc25a46	964.74466	791.263203	0.29	0.005784715	0.980354196	2.237718033	Slc25a46	solute carrier family 25, member 46 [Source:MGI Symbol;Acc:MGI:1914703]
Vps53	881.917551	723.4182	0.28	0.023112885	0.980354196	1.636145842	Vps53	VP53 GARP complex subunit [Source:MGI Symbol;Acc:MGI:1915549]
Hspa4	5307.23148	4358.87674	0.28	0.024909415	0.980354196	1.603636472	Hspa4	heat shock protein 4 [Source:MGI Symbol;Acc:MGI:1342292]
Cenpo	391.139238	321.041848	0.28	0.044314745	0.980354196	1.353451745	Cenpo	centromere protein O [Source:MGI Symbol;Acc:MGI:1923800]
Pold3	1308.7182	1074.9657	0.28	0.041650358	0.980354196	1.380381261	Pold3	polymerase (DNA-directed), delta 3, accessory subunit [Source:MGI Symbol;Acc:MGI:1915217]
Nop14	1024.10343	841.198537	0.28	0.029079684	0.980354196	1.536410317	Nop14	NOP14 nucleolar protein [Source:MGI Symbol;Acc:MGI:1922666]
Tra2a	2803.24955	2313.95605	0.28	0.038473742	0.980354196	1.414835572	Tra2a	transformer 2 alpha [Source:MGI Symbol;Acc:MGI:1933972]
Rrp12	765.098991	631.887022	0.28	0.018240446	0.980354196	1.738964547	Rrp12	ribosomal RNA processing 12 homolog (S. cerevisiae) [Source:MGI Symbol;Acc:MGI:2147437]
Rrp1	3931.70223	3246.69631	0.28	0.03263373	0.980354196	1.486471138	Rrp1	ribosomal RNA processing 1 homolog (S. cerevisiae) [Source:MGI Symbol;Acc:MGI:1203500]
Fbxl19	644.507364	531.871285	0.28	0.042630247	0.980354196	1.370282151	Fbxl19	F-box and leucine-rich repeat protein 19 [Source:MGI Symbol;Acc:MGI:3039600]
Trmt10c	543.301369	448.475317	0.28	0.038558351	0.980354196	1.413881548	Trmt10c	tRNA methyltransferase 10C [Source:MGI Symbol;Acc:MGI:1196261]
Sqle	410.596467	339.180991	0.27	0.041482249	0.980354196	1.382137706	Sqle	squalene epoxidase [Source:MGI Symbol;Acc:MGI:109296]
Prpf19	2491.13533	2060.60183	0.27	0.02826381	0.980354196	1.548769295	Prpf19	pre-mRNA processing factor 19 [Source:MGI Symbol;Acc:MGI:106247]
Eaf1	1558.55488	1290.79422	0.27	0.03916621	0.980354196	1.407088452	Eaf1	ELL associated factor 1 [Source:MGI Symbol;Acc:MGI:1921677]
Zfp251	580.590669	483.052321	0.27	0.040790649	0.980354196	1.389439385	Zfp251	zinc finger protein 251 [Source:MGI Symbol;Acc:MGI:1918841]
Pwp2	950.613798	793.939639	0.26	0.044104255	0.980354196	1.35551951	Pwp2	PWP2 periodic tryptophan protein homolog (yeast) [Source:MGI Symbol;Acc:MGI:1341200]
Terf2ip	632.144516	528.914932	0.26	0.037400861	0.980354196	1.42711184	Terf2ip	telomeric repeat binding factor 2, interacting protein [Source:MGI Symbol;Acc:MGI:1929871]
Cbx1	1429.4034	1197.06509	0.26	0.045864213	0.980354196	1.338526054	Cbx1	chromobox 1 [Source:MGI Symbol;Acc:MGI:105369]
Po1r1b	857.031591	719.333328	0.25	0.028517436	0.980354196	1.54489524	Po1r1b	polymerase (RNA) I polypeptide B [Source:MGI Symbol;Acc:MGI:108014]
Slc25a12	1120.33928	941.228887	0.25	0.039381252	0.980354196	1.404710481	Slc25a12	solute carrier family 25 (mitochondrial carrier, Aralar), member 12 [Source:MGI Symbol;Acc:MGI:1926080]
Rab35	1872.30462	1573.22358	0.25	0.042112894	0.980354196	1.375584913	Rab35	RAB35, member RAS oncogene family [Source:MGI Symbol;Acc:MGI:1924657]
Pelp1	1007.9913	847.823558	0.25	0.048238358	0.980354196	1.316607484	Pelp1	proline, glutamic acid and leucine rich protein 1 [Source:MGI Symbol;Acc:MGI:1922523]
Cstf3	744.620273	626.347546	0.25	0.021088853	0.980354196	1.67594704	Cstf3	cleavage stimulation factor, 3' pre-RNA, subunit 3 [Source:MGI Symbol;Acc:MGI:1351825]
Rbm18	593.7308	499.763062	0.25	0.047826677	0.980354196	1.320329793	Rbm18	RNA binding motif protein 18 [Source:MGI Symbol;Acc:MGI:1915139]
Gnl2	1193.44994	1007.72416	0.24	0.038053571	0.980354196	1.419604582	Gnl2	guanine nucleotide binding protein-like 2 (nucleolar) [Source:MGI Symbol;Acc:MGI:2385207]
Npepps	1592.50726	1345.12798	0.24	0.048710788	0.980354196	1.312374845	Npepps	aminopeptidase puromycin sensitive [Source:MGI Symbol;Acc:MGI:1101358]
Wnrp1	1035.15977	874.437367	0.24	0.03311223	0.980354196	1.48001157	Wnrp1	Werner helicase interacting protein 1 [Source:MGI Symbol;Acc:MGI:1926153]
Fto	1133.10119	958.411159	0.24	0.037600358	0.980354196	1.42480802	Fto	fat mass and obesity associated [Source:MGI Symbol;Acc:MGI:1347093]
Nol11	805.491615	683.43785	0.24	0.034368851	0.980354196	1.463834987	Nol11	nucleolar protein 11 [Source:MGI Symbol;Acc:MGI:1916229]
Inpp5b	1397.66011	1187.16543	0.23	0.009235469	0.980354196	2.034541045	Inpp5b	inositol polyphosphate 5-phosphatase B [Source:MGI Symbol;Acc:MGI:103257]
Eif3c	5871.12312	4995.35044	0.23	0.04869715	0.980354196	1.312500335	Eif3c	eukaryotic translation initiation factor 3, subunit C [Source:MGI Symbol;Acc:MGI:1926966]
Pnpt1	819.760682	697.238505	0.23	0.029226282	0.980354196	1.53422643	Pnpt1	polyribonucleotide nucleotidyltransferase 1 [Source:MGI Symbol;Acc:MGI:1918951]
Yipf5	594.780635	508.287377	0.22	0.022469186	0.980354196	1.648412661	Yipf5	Yip1 domain family, member 5 [Source:MGI Symbol;Acc:MGI:1914430]
Aida	1336.44209	1146.36114	0.22	0.033559024	0.980354196	1.474190678	Aida	axin interactor, dorsalization associated [Source:MGI Symbol;Acc:MGI:1919737]
Cstf1	914.970365	785.330415	0.22	0.042211554	0.980354196	1.374568659	Cstf1	cleavage stimulation factor, 3' pre-RNA, subunit 1 [Source:MGI Symbol;Acc:MGI:1914587]
Pgam1	1464.12332	1261.23925	0.21	0.036247867	0.980354196	1.440717544	Pgam1	phosphoglycerate mutase 1 [Source:MGI Symbol;Acc:MGI:97552]
Mta3	1526.12767	1317.72106	0.21	0.033918231	0.980354196	1.469566806	Mta3	metastasis associated 3 [Source:MGI Symbol;Acc:MGI:2151172]
Smarcb1	1641.39006	1421.33136	0.21	0.027836852	0.980354196	1.55537988	Smarcb1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1 [Source:MGI Symbol;Acc:MGI:2443569]
Fam78a	2230.20549	1932.31429	0.21	0.038391786	0.980354196	1.415761684	Fam78a	family with sequence similarity 78, member A [Source:MGI Symbol;Acc:MGI:2443569]
Tial1	1740.03774	1520.85431	0.19	0.04939607	0.980354196	1.306307603	Tial1	Tia1 cytotoxic granule-associated RNA binding protein-like 1 [Source:MGI Symbol;Acc:MGI:107913]
Anapc2	1943.74376	1710.61731	0.18	0.033311148	0.980354196	1.4774104	Anapc2	anaphase promoting complex subunit 2 [Source:MGI Symbol;Acc:MGI:2139135]
Mybbp1a	4115.01408	3631.26269	0.18	0.04405971	0.980354196	1.355958366	Mybbp1a	MYB binding protein (P160) 1a [Source:MGI Symbol;Acc:MGI:106181]
Decreased expression in Mg2800 versus Mg500								
Gm35657	0	10.0689043	-5.79	0.001829515	0.980354196	2.737664025	Gm35657	predicted gene, 35657 [Source:MGI Symbol;Acc:MGI:5594816]
Gm25654	0	9.00621041	-5.63	0.000151966	0.879365235	3.818253568	Gm25654	predicted gene, 25654 [Source:MGI Symbol;Acc:MGI:5455431]
Slc35f3	0	6.45984423	-5.15	0.006932969	0.980354196	2.159080742	Slc35f3	solute carrier family 35, member F3 [Source:MGI Symbol;Acc:MGI:2444426]
Gm48732	0	5.97795234	-5.04	0.002399309	0.980354196	2.619913817	Gm48732	predicted gene, 48732 [Source:MGI Symbol;Acc:MGI:6098394]
Prrs39	0	5.70796478	-4.97	0.049501872	0.980354196	1.305378377	Prrs39	protease, serine 39 [Source:MGI Symbol;Acc:MGI:1270856]
Gm43962	0.12357885	7.11023157	-4.88	0.00418456	0.980354196	2.378350201	Gm43962	predicted gene, 43962 [Source:MGI Symbol;Acc:MGI:5690354]
D730045B01Rik	0.2471577	8.98912116	-4.80	6.41E-05	0.808222723	4.19314197	D730045B01Rik	RIKEN cDNA D730045B01 gene [Source:MGI Symbol;Acc:MGI:1925117]
AC158985.3	0.51799448	14.5461561	-4.77	0.00065185	0.980354196	3.18585233	AC158985.3	novel transcript
Gm47870	0	4.95451406	-4.77	0.013876531	0.980354196	1.85771909	Gm47870	predicted gene, 47870 [Source:MGI Symbol;Acc:MGI:6097090]
Gm26461	0	4.92336843	-4.76	0.00351731	0.980354196	2.453789353	Gm26461	predicted gene, 26461 [Source:MGI Symbol;Acc:MGI:5456238]
Gm28306	0	4.73863265	-4.70	0.014953823	0.980354196	1.825247764	Gm28306	predicted gene 28306 [Source:MGI Symbol;Acc:MGI:5579012]
Gm10874	0.1791467	6.25304044	-4.69	0.000909286	0.980354196	3.041299496	Gm10874	predicted gene 10874 [Source:MGI Symbol;Acc:MGI:3704261]
Gm35147	0	4.68464441	-4.68	0.004853906	0.980354196	2.313908638	Gm35147	predicted gene, 35147 [Source:MGI Symbol;Acc:MGI:5594903]
9330111N05Rik	0	4.38175334	-4.59	0.001664016	0.980354196	2.778842502	9330111N05Rik	RIKEN cDNA 9330111N05 gene [Source:MGI Symbol;Acc:MGI:2443112]
Gm5432	0	4.34288642	-4.58	0.024250162	0.980354196	1.615285356	Gm5432	predicted gene 5432 [Source:MGI Symbol;Acc:MGI:3649057]
Gm38327	0.27823568	7.12444465	-4.46	0.001237616	0.980354196	2.907414085	Gm38327	predicted gene, 38327 [Source:MGI Symbol;Acc:MGI:5611555]
Lim2	0	3.98754675	-4.46	0.030374249	0.980354196	1.517494451	Lim2	lens intrinsic membrane protein 2 [Source:MGI Symbol;Acc:MGI:104698]
9430037G07Rik	0	3.93979309	-4.44	0.013645758	0.980354196	1.865002335	9430037G07Rik	RIKEN cDNA 9430037G07 gene [Source:MGI Symbol;Acc:MGI:2444544]
Gm12766	0.22589852	6.96476541	-4.43	0.000526076	0.980354196	3.278951511	Gm12766	predicted gene 12766 [Source:MGI Symbol;Acc:MGI:3652050]
Gm47321	0.27823568	6.90796671	-4.42	0.00644502	0.980354196	2.190775731	Gm47321	predicted gene, 47321 [Source:MGI Symbol;Acc:MGI:6096205]
Gm16573	0.11294926	5.15940633	-4.41	0.011406934	0.980354196	1.942831071	Gm16573	predicted gene 16573 [Source:MGI Symbol;Acc:MGI:4414993]
Mir343	0.33884778	8.69210025	-4.37	0.001835624	0.980354196	2.736216273	Mir343	microRNA 343 [Source:MGI Symbol;Acc:MGI:3718510]
A830035A12Rik	0.11294926	4.95557674	-4.36	0.01363015	0.980354196	1.865499365	A830035A12Rik	RIKEN cDNA A830035A12 gene [Source:MGI Symbol;Acc:MGI:3045382]
Gm8895	0.11294926	4.91284344	-4.34	0.016094219	0.980354196	1.793330093	Gm8895	predicted gene 8895 [Source:MGI Symbol;Acc:MGI:3643891]

Gm42901	0	3.68387972	-4.34	0.020721168	0.980354196	1.683585768	Gm42901	predicted gene 42901 [Source:MGI Symbol;Acc:MGI:5663038]
Gm29114	0	3.39250587	-4.22	0.047365683	0.980354196	1.324536196	Gm29114	predicted gene 29114 [Source:MGI Symbol;Acc:MGI:5579820]
Gm15849	0	3.39175504	-4.22	0.042482679	0.980354196	1.371788104	Gm15849	predicted gene 15849 [Source:MGI Symbol;Acc:MGI:3802034]
Gm45754	0.29209596	5.84943296	-4.18	0.004658304	0.980354196	2.331772173	Gm45754	predicted gene 45754 [Source:MGI Symbol;Acc:MGI:5804869]
Fhl5	0.2471577	5.80695657	-4.17	0.002528398	0.980354196	2.597154562	Fhl5	four and a half LIM domains 5 [Source:MGI Symbol;Acc:MGI:1913192]
Gm24524	0	3.27763677	-4.17	0.019903804	0.980354196	1.701063914	Gm24524	predicted gene, 24524 [Source:MGI Symbol;Acc:MGI:5454301]
Kctd4	0	3.26936937	-4.17	0.044576022	0.980354196	1.350898691	Kctd4	potassium channel tetramerisation domain containing 4 [Source:MGI Symbol;Acc:MGI:1914766]
C1ql4	0	3.2242046	-4.14	0.029824083	0.980354196	1.525432901	C1ql4	complement component 1, q subcomponent-like 4 [Source:MGI Symbol;Acc:MGI:3579909]
Gm47258	0.51799448	9.30723418	-4.13	0.008126071	0.980354196	2.090119387	Gm47258	predicted gene, 47258 [Source:MGI Symbol;Acc:MGI:6096089]
Gm15948	0.33884778	7.20147757	-4.11	0.039169745	0.980354196	1.407409256	Gm15948	predicted gene 15948 [Source:MGI Symbol;Acc:MGI:3801731]
Gldc	0.22589852	5.51331499	-4.10	0.020155653	0.980354196	1.695603127	Gldc	glycine decarboxylase [Source:MGI Symbol;Acc:MGI:1341155]
Tmcc3os	0.45179704	8.53940051	-4.07	0.00994162	0.980354196	2.002542841	Tmcc3os	transmembrane and coiled coil domains 3, opposite strand [Source:MGI Symbol;Acc:MGI:3801736]
A830009L08Rik	0.13911784	3.82186342	-3.98	0.038192114	0.980354196	1.418026302	A830009L08Rik	RIKEN cDNA A830009L08 gene [Source:MGI Symbol;Acc:MGI:2443762]
Gm12367	0.12357885	3.79328975	-3.97	0.038278823	0.980354196	1.417041424	Gm12367	predicted gene 12367 [Source:MGI Symbol;Acc:MGI:3649554]
Gm15470	0	2.84166859	-3.97	0.038296801	0.980354196	1.416837502	Gm15470	predicted gene 15470 [Source:MGI Symbol;Acc:MGI:3641891]
Gm7045	1.02773279	15.6677481	-3.96	0.000457401	0.980354196	3.339702089	Gm7045	predicted gene 7045 [Source:MGI Symbol;Acc:MGI:3779655]
AA672651	0	2.77184388	-3.93	0.037124575	0.980354196	1.430338509	AA672651	expressed sequence AA672651 [Source:MGI Symbol;Acc:MGI:2142438]
Gm23553	0.11294926	3.65746929	-3.92	0.042606718	0.980354196	1.370521918	Gm23553	predicted gene, 23553 [Source:MGI Symbol;Acc:MGI:5453330]
Otof	0.3582934	4.51074422	-3.81	0.032287518	0.980354196	1.490965399	Otof	otofelin [Source:MGI Symbol;Acc:MGI:1891247]
Ccdc36	0.5647463	8.54993656	-3.77	0.002437212	0.980354196	2.613100692	Ccdc36	coiled-coil domain containing 36 [Source:MGI Symbol;Acc:MGI:3612242]
Fmr1nb	0.27823568	4.41004792	-3.77	0.046922965	0.980354196	1.328614553	Fmr1nb	Fmr1 neighbor [Source:MGI Symbol;Acc:MGI:2672032]
Gm49249	0.1791467	3.22640157	-3.74	0.045204257	0.980354196	1.344820665	Gm49249	predicted gene, 49249 [Source:MGI Symbol;Acc:MGI:6118719]
Gsdmc4	0.27823568	4.27631423	-3.73	0.041882434	0.980354196	1.377968087	Gsdmc4	gasdermin C4 [Source:MGI Symbol;Acc:MGI:1921798]
Gm45041	0.36010696	5.51500801	-3.69	0.026470035	0.980354196	1.577245484	Gm45041	predicted gene 45041 [Source:MGI Symbol;Acc:MGI:5753617]
Gm5608	0.13911784	3.05644128	-3.66	0.033288672	0.980354196	1.477770353	Gm5608	predicted gene 5608 [Source:MGI Symbol;Acc:MGI:3779504]
Agbl1	0.49741124	5.37910627	-3.63	0.015344023	0.980354196	1.814060759	Agbl1	ATP/GTP binding protein-like 1 [Source:MGI Symbol;Acc:MGI:3646469]
Gm37052	0.45179704	6.22252322	-3.61	0.019594381	0.980354196	1.707868452	Gm37052	predicted gene, 37052 [Source:MGI Symbol;Acc:MGI:5610280]
9430064I24Rik	0.811904	10.39152525	-3.61	0.022320375	0.980354196	1.651298513	9430064I24Rik	RIKEN cDNA 9430064I24 gene [Source:MGI Symbol;Acc:MGI:3704302]
Gm11934	0.30487875	3.89325092	-3.60	0.016417502	0.980354196	1.784692922	Gm11934	predicted gene 11934 [Source:MGI Symbol;Acc:MGI:3649212]
Pax6	0.22589852	3.88078263	-3.59	0.026654029	0.980354196	1.574237134	Pax6	paired box 6 [Source:MGI Symbol;Acc:MGI:97490]
Gm12925	0.36010696	5.05359243	-3.57	0.009143133	0.980354196	2.038904963	Gm12925	predicted gene 12925 [Source:MGI Symbol;Acc:MGI:3651536]
Nanos3	0.12357885	2.8591653	-3.56	0.03385083	0.980354196	1.074030678	Nanos3	nanos C2HC-type zinc finger 3 [Source:MGI Symbol;Acc:MGI:2675387]
Gm41071	0.53032155	6.32763622	-3.55	0.009783463	0.980354196	2.009507393	Gm41071	predicted gene, 41071 [Source:MGI Symbol;Acc:MGI:5623956]
Trim72	0.47305622	6.04586815	-3.52	0.007195731	0.980354196	2.14292508	Trim72	tripartite motif-containing 72 [Source:MGI Symbol;Acc:MGI:3612190]
Gm31683	0.34947737	4.68380322	-3.48	0.028016938	0.980354196	1.552579331	Gm31683	predicted gene, 31683 [Source:MGI Symbol;Acc:MGI:5590842]
Gm40645	0.45179704	5.59505903	-3.45	0.014151613	0.980354196	1.849194056	Gm40645	predicted gene, 40645 [Source:MGI Symbol;Acc:MGI:5623530]
4921529L05Rik	0.5095845	5.75273889	-3.39	0.007546967	0.980354196	2.122227549	4921529L05Rik	RIKEN cDNA 4921529L05 gene [Source:MGI Symbol;Acc:MGI:2443531]
Gm26407	0.70144756	7.22822744	-3.38	0.036243956	0.980354196	1.440764405	Gm26407	predicted gene, 26407 [Source:MGI Symbol;Acc:MGI:5456184]
8430419K02Rik	0.59091488	6.55293531	-3.37	0.015337388	0.980354196	1.814248596	8430419K02Rik	RIKEN cDNA 8430419K02 gene [Source:MGI Symbol;Acc:MGI:1921768]
Raet1d	1.20208618	12.3715439	-3.34	0.002515668	0.980354196	2.599346675	Raet1d	retinoic acid early transcript delta [Source:MGI Symbol;Acc:MGI:1861032]
Gm45607	0.69714118	6.84283366	-3.30	0.007355729	0.980354196	2.133374279	Gm45607	predicted gene 45607 [Source:MGI Symbol;Acc:MGI:5791443]
Mas1	0.57537589	5.98320516	-3.28	0.04358309	0.980354196	1.360681982	Mas1	MAS1 oncogene [Source:MGI Symbol;Acc:MGI:96918]
Gm15443	0.39118494	4.10379409	-3.26	0.017314994	0.980354196	1.761577655	Gm15443	predicted gene 15443 [Source:MGI Symbol;Acc:MGI:3642525]
Gm15512	0.73003272	7.46744146	-3.26	0.005091526	0.980354196	2.293152034	Gm15512	predicted gene 15512 [Source:MGI Symbol;Acc:MGI:3782960]
B930036N10Rik	0.81567578	7.51454593	-3.26	0.04607691	0.980354196	1.350590586	B930036N10Rik	RIKEN cDNA B930036N10 gene [Source:MGI Symbol;Acc:MGI:3702496]
Gm15342	1.26619386	11.9466839	-3.21	0.008818633	0.980354196	2.054598731	Gm15342	predicted gene 15342 [Source:MGI Symbol;Acc:MGI:3705188]
Slc22a12	0.85361157	7.52813181	-3.07	0.016279629	0.980354196	1.783655497	Slc22a12	solute carrier family 22 (organic anion/cation transporter), member 12 [Source:MGI Symbol;Acc:MGI:1195269]
Gm15547	1.15414673	10.2604889	-3.06	0.006756002	0.980354196	2.170310231	Gm15547	predicted gene 15547 [Source:MGI Symbol;Acc:MGI:3782996]
Gm37755	1.90513951	16.0673033	-3.05	0.01061788	0.980354196	1.973962187	Gm37755	predicted gene, 37755 [Source:MGI Symbol;Acc:MGI:5610983]
Gm47963	1.52428632	12.7695584	-3.03	0.012011914	0.980354196	1.920387786	Gm47963	predicted gene, 47963 [Source:MGI Symbol;Acc:MGI:6097241]
Gm36584	0.59663507	5.12713111	-3.00	0.024708501	0.980354196	1.607153601	Gm36584	predicted gene, 36584 [Source:MGI Symbol;Acc:MGI:5595743]
Trav7d-3	0.743893	6.12241522	-2.99	0.030540274	0.980354196	1.515127071	Trav7d-3	T cell receptor alpha variable 7D-3 [Source:MGI Symbol;Acc:MGI:3649861]
Snord65	0.7570121	6.1878096	-2.97	0.017039043	0.980354196	1.768554801	Snord65	small nucleolar RNA, C/D box 65 [Source:MGI Symbol;Acc:MGI:3819547]
Gm25821	0.82744299	6.74815951	-2.96	0.044005771	0.980354196	1.356490366	Gm25821	predicted gene, 25821 [Source:MGI Symbol;Acc:MGI:5455598]
Gm48714	1.16138137	9.12870182	-2.90	0.022331505	0.980354196	1.651082007	Gm48714	predicted gene, 48714 [Source:MGI Symbol;Acc:MGI:6098361]
Gm45437	1.49209238	11.3726121	-2.90	0.042802074	0.980354196	1.368535186	Gm45437	predicted gene 45437 [Source:MGI Symbol;Acc:MGI:5791273]
Cpa6	0.6103605	4.21660237	-2.87	0.044469915	0.980354196	1.351933701	Cpa6	carboxypeptidase A6 [Source:MGI Symbol;Acc:MGI:3045348]
Gm26811	1.74657605	13.0521835	-2.86	0.048228471	0.980354196	1.316696506	Gm26811	predicted gene, 26811 [Source:MGI Symbol;Acc:MGI:5477305]
Gm43961	1.80853191	12.9781733	-2.84	0.036080738	0.980354196	1.442724588	Gm43961	predicted gene, 43961 [Source:MGI Symbol;Acc:MGI:5690353]
Gm37818	1.53453781	11.1092803	-2.81	0.038644835	0.980354196	1.412908543	Gm37818	predicted gene, 37818 [Source:MGI Symbol;Acc:MGI:5611046]
Gm8655	0.96656083	7.06950473	-2.81	0.030115336	0.980354196	1.521212287	Gm8655	predicted gene 8655 [Source:MGI Symbol;Acc:MGI:3647209]
6720464F23Rik	1.27433063	9.27002117	-2.80	0.040982035	0.980354196	1.38740648	6720464F23Rik	RIKEN cDNA 6720464F23 gene [Source:MGI Symbol;Acc:MGI:2444677]
Mir7240	1.23416691	8.93441585	-2.79	0.009040986	0.980354196	2.043784203	Mir7240	microRNA 7240 [Source:MGI Symbol;Acc:MGI:5530869]
AC183097.2	1.46834037	10.6651183	-2.79	0.0023070703	0.980354196	1.636939172	AC183097.2	tubby like protein 4 (Tulp4) pseudogene
Gm16350	1.23222483	8.3834051	-2.76	0.011332714	0.980354196	1.945666071	Gm16350	predicted gene 16350 [Source:MGI Symbol;Acc:MGI:3840133]
Gng4	1.59918327	11.2906426	-2.76	0.0047721427	0.980354196	2.325926721	Gng4	guanine nucleotide binding protein (G protein), gamma 4 [Source:MGI Symbol;Acc:MGI:102703]
Rpl39l	0.53925366	3.6435753	-2.73	0.044262607	0.980354196	1.35396301	Rpl39l	ribosomal protein L39-like [Source:MGI Symbol;Acc:MGI:1915422]
Gm46218	2.29127084	15.2524599	-2.69	0.007197352	0.980354196	2.142827257	Gm46218	predicted gene, 46218 [Source:MGI Symbol;Acc:MGI:5825855]
Ighv2-4	10.4967077	6.7109322	-2.68	0.0111183	0.980354196	1.953961612	Ighv2-4	immunoglobulin heavy variable V2-4 [Source:MGI Symbol;Acc:MGI:3643263]
Gm43445	2.4734946	15.7403122	-2.65	0.010072467	0.980354196	1.996864147	Gm43445	predicted gene 43445 [Source:MGI Symbol;Acc:MGI:5663582]
Gm8979	2.61650524	15.2705193	-2.52	0.00538343	0.980354196	2.26894093	Gm8979	predicted gene 8979 [Source:MGI Symbol;Acc:MGI:3703149]
Ascl4	2.26803043	13.076947	-2.51	0.004829525	0.980354196	2.316095831	Ascl4	achaete-scute family bHLH transcription factor 4 [Source:MGI Symbol;Acc:MGI:1914591]
Abcc2	1.0095413	5.95982053	-2.51	0.034007686	0.980354196	1.468422918	Abcc2	ATP-binding cassette, sub-family C (CFTR/MRP), member 2 [Source:MGI Symbol;Acc:MGI:1352447]
Trav8n-2	1.18964303	6.56849484	-2.50	0.03417982	0.980354196	1.466230229	Trav8n-2	T cell receptor alpha variable 8n-2 [Source:MGI Symbol;Acc:MGI:3641705]
Rangrf	1.30440585	7.46574849	-2.49	0.025078833	0.980354196	1.600692677	Rangrf	RAN guanine nucleotide release factor [Source:MGI Symbol;Acc:MGI:1889073]
Gm16044	2.26673323	12.7237941	-2.48	0.023851291	0.980354196	1.622488035	Gm16044	predicted gene 16044 [Source:MGI Symbol;Acc:MGI:3801992]
Gm10392	1.95849225	10.6400553	-2.47	0.016569475	0.980354196	1.780691252	Gm10392	predicted gene 10392 [Source:MGI Symbol;Acc:MGI:3704377]
4930447K03Rik	1.62018088	8.6283792	-2.41	0.030299834	0.980354196	1.518559751	4930447K03Rik	RIKEN cDNA 4930447K03 gene [Source:MGI Symbol;Acc:MGI:1921231]
Gm47391	1.64676466	8.67868117	-2.33	0.032028487	0.980354196	1.494463577	Gm47391	predicted gene, 47391 [Source:MGI Symbol;Acc:MGI:6096314]
Atxn71los2	3.27171862	16.444616	-2.31	0.026357767	0.980354196	1.579091385	Atxn71los2	ataxin 7-like 1, opposite strand 2 [Source:MGI Symbol;Acc:MGI:1923086]

Gm49125	7.03269098	35.2934019	-2.30	0.005311905	0.980354196	2.274749701	Gm49125	predicted gene, 49125 [Source:MG: Symbol;Acc:MG:6118530]
Gm20535	1.52488328	7.98717143	-2.30	0.016230883	0.980354196	1.789657853	Gm20535	predicted gene 20535 [Source:MG: Symbol;Acc:MG:5142000]
Slitrk5	2.16859743	10.7476523	-2.26	0.032000218	0.980354196	1.494847063	Slitrk5	SLIT and NTRK-like family, member 5 [Source:MG: Symbol;Acc:MG:2679448]
Gm45540	6.53793054	31.4095057	-2.26	0.024688606	0.980354196	1.607503431	Gm45540	predicted gene 45540 [Source:MG: Symbol;Acc:MG:5791376]
Pcdhgb1	3.51650563	16.7216987	-2.21	0.013762669	0.980354196	1.861297335	Pcdhgb1	protocadherin gamma subfamily B, 1 [Source:MG: Symbol;Acc:MG:1935169]
Gm17971	4.38592634	20.6427301	-2.20	0.003554635	0.980354196	2.449204987	Gm17971	predicted gene, 17971 [Source:MG: Symbol;Acc:MG:5010156]
Gm29243	1.91812376	8.84318448	-2.20	0.036891405	0.980354196	1.433074804	Gm29243	predicted gene 29243 [Source:MG: Symbol;Acc:MG:5579949]
Gm10432	2.70489504	11.7010013	-2.14	0.015836331	0.980354196	1.800334543	Gm10432	predicted gene 10432 [Source:MG: Symbol;Acc:MG:3642011]
Dao	2.44452803	10.7982977	-2.11	0.04875229	0.980354196	1.31200498	Dao	D-amino acid oxidase [Source:MG: Symbol;Acc:MG:94859]
Gm44986	6.00726657	25.7880272	-2.08	0.00452026	0.980354196	2.344836584	Gm44986	predicted gene 44986 [Source:MG: Symbol;Acc:MG:5753562]
Tmprss9	1.45347733	6.42964677	-2.08	0.039501795	0.980354196	1.403383169	Tmprss9	transmembrane protease, serine 9 [Source:MG: Symbol;Acc:MG:3612246]
Tmem202	2.62658925	10.9590436	-2.07	0.032243162	0.980354196	1.491562375	Tmem202	transmembrane protein 202 [Source:MG: Symbol;Acc:MG:1921143]
Gm36931	2.69772505	11.3820048	-2.06	0.040159997	0.980354196	1.396206328	Gm36931	predicted gene, 36931 [Source:MG: Symbol;Acc:MG:5610159]
Gm28800	4.71829314	19.4235205	-2.04	0.011546906	0.980354196	1.93753437	Gm28800	predicted gene 28800 [Source:MG: Symbol;Acc:MG:5579506]
Gm44164	8.27080524	33.6777492	-2.03	0.015716663	0.980354196	1.803639659	Gm44164	predicted gene, 44164 [Source:MG: Symbol;Acc:MG:5690556]
6430590A07Rik	5.93448056	24.2949548	-2.02	0.03777797	0.980354196	1.422761383	6430590A07Rik	RIKEN cDNA 6430590A07 gene [Source:MG: Symbol;Acc:MG:3648839]
Gm20421	2.47298292	10.2410993	-2.01	0.042077724	0.980354196	1.375947759	Gm20421	predicted gene 20421 [Source:MG: Symbol;Acc:MG:5141886]
Gm42735	3.98064767	15.9682993	-2.00	0.046700984	0.980354196	1.330673969	Gm42735	predicted gene 42735 [Source:MG: Symbol;Acc:MG:5662872]
Ano5	7.07399687	28.5349198	-1.99	0.002693184	0.980354196	2.569733974	Ano5	anoctamin 5 [Source:MG: Symbol;Acc:MG:3576659]
CT025601.1	3.37092408	13.3166672	-1.95	0.026068655	0.980354196	1.583881375	CT025601.1	transmembrane protein 167 (Tmem167) pseudogene
Gm34983	4.51504635	17.0136191	-1.93	0.042086027	0.980354196	1.375862071	Gm34983	predicted gene, 34983 [Source:MG: Symbol;Acc:MG:5594142]
Gm42664	13.6996043	52.382917	-1.93	0.032461276	0.980354196	1.488634413	Gm42664	predicted gene 42664 [Source:MG: Symbol;Acc:MG:5662801]
B230334C09Rik	2.91511367	10.8792348	-1.92	0.016274941	0.980354196	1.788480577	B230334C09Rik	RIKEN cDNA B230334C09 gene [Source:MG: Symbol;Acc:MG:2442224]
Gm6685	4.84630679	18.7151599	-1.91	0.008171234	0.980354196	2.087712352	Gm6685	predicted pseudogene 6685 [Source:MG: Symbol;Acc:MG:3704119]
Shank2	3.46858724	12.8847065	-1.91	0.041034819	0.980354196	1.386847478	Shank2	SH3 and multiple ankyrin repeat domains 2 [Source:MG: Symbol;Acc:MG:2671987]
Gm11536	2.64991956	9.89791736	-1.90	0.046792637	0.980354196	1.329822479	Gm11536	predicted gene 11536 [Source:MG: Symbol;Acc:MG:3650116]
Gm13270	3.78577895	13.9686002	-1.88	0.038897572	0.980354196	1.410077507	Gm13270	predicted gene 13270 [Source:MG: Symbol;Acc:MG:3651704]
Col19a1	5.43872399	19.5323319	-1.83	0.046226958	0.980354196	1.335104685	Col19a1	collagen, type XIX, alpha 1 [Source:MG: Symbol;Acc:MG:1095415]
Gm38077	15.4011595	55.0491524	-1.83	0.007644021	0.980354196	2.116678129	Gm38077	predicted gene, 38077 [Source:MG: Symbol;Acc:MG:5611305]
Sntg1	6.81221252	24.010487	-1.81	0.00575243	0.980354196	2.240148657	Sntg1	syntrophin, gamma 1 [Source:MG: Symbol;Acc:MG:1918346]
Gm10180	2.98681561	10.344842	-1.80	0.037557406	0.980354196	1.425304411	Gm10180	predicted gene 10180 [Source:MG: Symbol;Acc:MG:3701608]
C630043F03Rik	5.98373731	20.7495998	-1.79	0.046817915	0.980354196	1.329587931	C630043F03Rik	RIKEN cDNA C630043F03 gene [Source:MG: Symbol;Acc:MG:1915535]
Gm16310	3.10386956	10.7814413	-1.76	0.040073749	0.980354196	1.397140026	Gm16310	predicted gene 16310 [Source:MG: Symbol;Acc:MG:3826522]
Aldh1l2	10.7478111	36.903803	-1.76	0.032276355	0.980354196	2.484609048	Aldh1l2	aldehyde dehydrogenase 1 family, member L2 [Source:MG: Symbol;Acc:MG:2444680]
Gm5970	3.53400284	11.9825512	-1.75	0.049344172	0.980354196	1.306764134	Gm5970	predicted gene 5970 [Source:MG: Symbol;Acc:MG:3646761]
Gm49395	2.64372796	9.06750895	-1.75	0.01367992	0.980354196	1.863916442	Gm49395	predicted gene, 49395 [Source:MG: Symbol;Acc:MG:6121627]
Gm5469	2.09177683	7.01263486	-1.74	0.031958064	0.980354196	1.495419538	Gm5469	predicted gene 5469 [Source:MG: Symbol;Acc:MG:3645122]
Lama1	5.76389772	19.2774497	-1.72	0.023065279	0.980354196	1.637041288	Lama1	laminin, alpha 1 [Source:MG: Symbol;Acc:MG:99892]
Gm44860	9.22537146	29.0150703	-1.65	0.041250034	0.980354196	1.384575689	Gm44860	predicted gene 44860 [Source:MG: Symbol;Acc:MG:5753436]
Fdx1l	3.63264848	11.561041	-1.65	0.037193762	0.980354196	1.429529892	Fdx1l	ferredoxin 1-like [Source:MG: Symbol;Acc:MG:1915451]
Prss29	4.33864776	13.574803	-1.64	0.021126162	0.980354196	1.675179394	Prss29	protease, serine 29 [Source:MG: Symbol;Acc:MG:2149952]
Claa2	8.09034708	25.1695457	-1.62	0.002663166	0.980354196	2.574601762	Claa2	chloride channel accessory 2 [Source:MG: Symbol;Acc:MG:2139758]
Tennm2	7.93941381	23.7486277	-1.61	0.0022773	0.980354196	2.642579754	Tennm2	teneurin transmembrane protein 2 [Source:MG: Symbol;Acc:MG:1345184]
Gm18537	6.33870912	11.0254794	-1.58	0.042612914	0.980354196	1.370458766	Gm18537	predicted gene, 18537 [Source:MG: Symbol;Acc:MG:5010722]
Nlrp1c-ps	14.7879555	45.5136731	-1.57	0.04274291	0.980354196	1.369091402	Nlrp1c-ps	NLR family, pyrin domain containing 1C, pseudogene [Source:MG: Symbol;Acc:MG:3582962]
Gm47467	4.21680919	12.5561268	-1.56	0.038587331	0.980354196	1.41355526	Gm47467	predicted gene, 47467 [Source:MG: Symbol;Acc:MG:6096433]
Gm16070	4.45650939	12.9883794	-1.56	0.037012944	0.980354196	1.43164637	Gm16070	predicted gene 16070 [Source:MG: Symbol;Acc:MG:3801761]
Gm44141	6.54122291	19.4371384	-1.54	0.027214985	0.980354196	1.565191901	Gm44141	predicted gene, 44141 [Source:MG: Symbol;Acc:MG:5690533]
Tmigd3	7.19625144	20.7195837	-1.53	0.031935842	0.980354196	1.495721629	Tmigd3	transmembrane and immunoglobulin domain containing 3 [Source:MG: Symbol;Acc:MG:5604098]
Gm15932	6.59542848	18.9332006	-1.51	0.008853905	0.980354196	2.052865142	Gm15932	predicted gene 15932 [Source:MG: Symbol;Acc:MG:3802106]
Ccl11	5.99713884	17.2926566	-1.50	0.031832644	0.980354196	1.497127288	Ccl11	chemokine (C-C motif) ligand 11 [Source:MG: Symbol;Acc:MG:103576]
Paqr3	13.7321728	39.0068773	-1.50	0.009882087	0.980354196	2.005151327	Paqr3	progesterin and adipoQ receptor family member III [Source:MG: Symbol;Acc:MG:2679683]
Mir1898	7.37118986	21.1457451	-1.49	0.037756953	0.980354196	1.423003061	Mir1898	microRNA 1898 [Source:MG: Symbol;Acc:MG:3811421]
Obscn	48.090775	135.234643	-1.49	0.002572593	0.980354196	2.589628916	Obscn	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF [Source:MG: Symbol;Acc:MG:2681862]
Ccdc162	7.77717358	21.7107579	-1.47	0.045808849	0.980354196	1.339050562	Ccdc162	coiled-coil domain containing 162 [Source:MG: Symbol;Acc:MG:19323223]
Gm16024	7.72435116	21.1309458	-1.45	0.035508667	0.980354196	1.449665631	Gm16024	predicted gene 16024 [Source:MG: Symbol;Acc:MG:3802145]
Gm44321	22.107258	59.4640998	-1.42	0.047219922	0.980354196	1.325874735	Gm44321	predicted gene, 44321 [Source:MG: Symbol;Acc:MG:5690713]
Mir8091	8.0104789	21.5675725	-1.42	0.032096073	0.980354196	1.493548101	Mir8091	microRNA 8091 [Source:MG: Symbol;Acc:MG:5530957]
Calml4	13.8663839	37.2760138	-1.41	0.008712385	0.980354196	2.059862941	Calml4	calmodulin-like 4 [Source:MG: Symbol;Acc:MG:1922850]
Gm44423	48.7326376	129.951027	-1.41	0.018847662	0.980354196	1.724742515	Gm44423	predicted gene, 44423 [Source:MG: Symbol;Acc:MG:5690815]
Tmtc2	23.4816153	62.2413559	-1.40	0.00401828	0.980354196	2.395959804	Tmtc2	transmembrane and tetrapeptide repeat containing 2 [Source:MG: Symbol;Acc:MG:1914057]
Ighv3-4	13.2544942	34.7104952	-1.39	0.020024459	0.980354196	1.698439208	Ighv3-4	immunoglobulin heavy variable V3-4 [Source:MG: Symbol;Acc:MG:3644034]
Sycp2	9.64797914	25.0863626	-1.38	0.025631927	0.980354196	1.591218742	Sycp2	synaptonemal complex protein 2 [Source:MG: Symbol;Acc:MG:1933281]
Gapdh	142.783878	369.876141	-1.37	0.004168481	0.980354196	2.380022174	Gapdh	glyceraldehyde-3-phosphate dehydrogenase [Source:MG: Symbol;Acc:MG:95640]
4930439D14Rik	32.1381673	83.2312987	-1.37	0.015040784	0.980354196	1.822729526	4930439D14Rik	RIKEN cDNA 4930439D14 gene [Source:MG: Symbol;Acc:MG:1925417]
Lrrc4	13.5186682	35.2448974	-1.37	0.040394051	0.980354196	1.393682591	Lrrc4	leucine rich repeat containing 4 [Source:MG: Symbol;Acc:MG:2182081]
Gm45235	14.7353985	37.798634	-1.36	0.021550272	0.980354196	1.666547244	Gm45235	predicted gene 45235 [Source:MG: Symbol;Acc:MG:5753811]
Asgr2	6.11698657	15.628689	-1.36	0.012435831	0.980354196	1.905325189	Asgr2	asialoglycoprotein receptor 2 [Source:MG: Symbol;Acc:MG:88082]
Gm9967	11.8618376	30.4317243	-1.34	0.016697253	0.980354196	1.777354972	Gm9967	predicted gene 9967 [Source:MG: Symbol;Acc:MG:3704300]
Acrv2b	14.3852708	36.4047482	-1.32	0.027369445	0.980354196	1.562734009	Acrv2b	activin receptor IIB [Source:MG: Symbol;Acc:MG:87912]
Nnat	35.7368558	89.189458	-1.31	0.012878703	0.980354196	1.890127872	Nnat	neuronatin [Source:MG: Symbol;Acc:MG:104716]
Casq2	14.4238632	36.0698464	-1.30	0.013968207	0.980354196	1.854859338	Casq2	calsequestrin 2 [Source:MG: Symbol;Acc:MG:1309469]
Sned1	318.576648	784.410989	-1.30	0.023985337	0.980354196	1.620054175	Sned1	sushi, nidogen and EGF-like domains 1 [Source:MG: Symbol;Acc:MG:3045960]
Insr	14.1877877	35.2921619	-1.30	0.01682278	0.980354196	1.932472463	Insr	insulin receptor-related receptor [Source:MG: Symbol;Acc:MG:1346037]
Neto1	9.60586909	23.8380308	-1.30	0.022938178	0.980354196	1.639441081	Neto1	neuropilin (NRP) and tolloid (TLL)-like 1 [Source:MG: Symbol;Acc:MG:2180216]
Cyp2t4	10.0139304	25.0084748	-1.29	0.00797366	0.980354196	2.098342287	Cyp2t4	cytochrome P450, family 2, subfamily t, polypeptide 4 [Source:MG: Symbol;Acc:MG:2686296]
Vmn2r84	47.1095237	115.478755	-1.29	0.015609707	0.980354196	1.806605249	Vmn2r84	vomerolnasal 2, receptor 84 [Source:MG: Symbol;Acc:MG:3643367]
IL20rb	17.8950182	43.9084061	-1.28	0.01339581	0.980354196	1.873031021	IL20rb	interleukin 20 receptor beta [Source:MG: Symbol;Acc:MG:2143266]
Sec14l5	13.3530389	32.3475562	-1.28	0.034854471	0.980354196	1.457741504	Sec14l5	SEC14-like lipid binding 5 [Source:MG: Symbol;Acc:MG:3616084]
4931431B13Rik	44.2191724	108.119309	-1.28	0.001803075	0.980354196	2.743986208	4931431B13Rik	RIKEN cDNA 4931431B13 gene [Source:MG: Symbol;Acc:MG:1918223]

Gm28187	17.0403272	41.3978024	-1.27	0.033554958	0.980354196	1.4742433	Gm28187
Ighj3	40.0774736	97.245867	-1.27	0.026148725	0.980354196	1.582549482	Ighj3
Gm26581	31.4441216	76.2181603	-1.27	0.026646563	0.980354196	1.5743588	Gm26581
CT025659.2	6.18276305	14.8805234	-1.26	0.032320883	0.980354196	1.490516783	CT025659.2
Lipn	17.2258621	41.632567	-1.26	0.023672716	0.980354196	1.625751912	Lipn
Gm38394	47.6236113	113.902905	-1.26	0.021767565	0.980354196	1.66219015	Gm38394
BC005561	71.420731	170.66998	-1.25	0.002127308	0.980354196	2.672169627	BC005561
Gm16015	44.2822523	105.249276	-1.24	0.007504905	0.980354196	2.124654801	Gm16015
Gm44850	33.8293998	56.5660748	-1.24	0.045881933	0.980354196	1.338358294	Gm44850
Ighv1-61	96.334031	227.501545	-1.24	0.006806645	0.980354196	2.167066899	Ighv1-61
Gm6627	16.1147506	37.9329371	-1.23	0.006626824	0.980354196	2.178694564	Gm6627
Kcnh1	35.6286658	83.7591105	-1.23	0.01133163	0.980354196	1.945707614	Kcnh1
Sv2b	26.4923564	61.8371614	-1.21	0.014246154	0.980354196	1.846302365	Sv2b
Ppfia2	20.3898736	47.1878458	-1.21	0.008500115	0.980354196	2.070575199	Ppfia2
Gm45884	81.4160398	187.162828	-1.20	0.029473365	0.980354196	1.530570278	Gm45884
Gm45220	24.4830305	56.0796814	-1.19	0.025263396	0.980354196	1.59750827	Gm45220
Slc2a13	25.5040807	58.1319691	-1.18	0.002790563	0.980354196	2.554308168	Slc2a13
Zfp871	383.077576	867.067264	-1.18	0.034210632	0.980354196	1.465838903	Zfp871
Vsig2	19.8745122	45.1018468	-1.18	0.043918659	0.980354196	1.357350929	Vsig2
Angptl7	31.2856778	69.3828375	-1.14	0.043446767	0.980354196	1.353138036	Angptl7
Atp7a	124.764617	275.686907	-1.14	0.024111983	0.980354196	1.617767071	Atp7a
Gm21762	22.1310774	48.2656969	-1.13	0.002378199	0.980354196	2.623751808	Gm21762
Klhl29	115.875365	251.031616	-1.11	0.011983503	0.980354196	1.921416211	Klhl29
Wdr95	10.8961355	23.6778234	-1.11	0.026139292	0.980354196	1.582706178	Wdr95
Kcna3	121.899672	263.10013	-1.11	0.026290347	0.980354196	1.580203682	Kcna3
Gm20633	9.08415666	19.654159	-1.11	0.030293652	0.980354196	1.518648368	Gm20633
Glt8d2	14.9827448	32.2237831	-1.10	0.029773865	0.980354196	1.526164785	Glt8d2
Fam184a	8.02212861	17.3094847	-1.10	0.04873699	0.980354196	1.312141296	Fam184a
Gprn3	67.1823906	143.884869	-1.10	0.021424578	0.980354196	1.669087724	Gprn3
Zfp69	50.0473502	107.240593	-1.09	0.021348716	0.980354196	1.67062824	Zfp69
Ighv1-12	108.108742	227.03751	-1.07	0.006134929	0.980354196	2.212190459	Ighv1-12
9530082P21Rik	28.5577665	59.7866979	-1.06	0.003392134	0.980354196	2.1969527	9530082P21Rik
Prex2	171.115702	356.07616	-1.06	0.003414477	0.980354196	2.466675808	Prex2
Gm38190	49.4961763	102.367815	-1.04	0.022760885	0.980354196	1.642810855	Gm38190
Gm15674	157.620105	323.563096	-1.04	0.021725468	0.980354196	1.663030859	Gm15674
Heat9	31.7404268	65.2547239	-1.03	0.003927026	0.980354196	2.405936223	Heat9
Arsi	30.3198538	62.0893697	-1.03	0.031823391	0.980354196	1.497253545	Arsi
Ryr2	28.8006008	59.332351	-1.03	0.03650769	0.980354196	1.437615646	Ryr2
Fer1l6	13.0087194	26.2592346	-1.02	0.01288836	0.980354196	1.889802342	Fer1l6
Stox2	51.8627836	105.318871	-1.02	0.019850541	0.980354196	1.702227653	Stox2
Dhh	13.0856872	26.652112	-1.01	0.008428826	0.980354196	2.074232911	Dhh
Igkv1-135	1181.49312	2382.35357	-1.01	0.005169937	0.980354196	2.286514749	Igkv1-135
Cdh4	61.5541162	123.870466	-1.01	0.003358499	0.980354196	2.473854777	Cdh4
Lcor	144.444812	290.202965	-1.01	0.028112916	0.980354196	1.551094105	Lcor
Gdf6	289.823952	570.011037	-0.97	0.001009364	0.980354196	2.99595189	Gdf6
Igkv12-41	88.035338	173.710164	-0.97	0.009657477	0.980354196	2.015136317	Igkv12-41
4732440D04Rik	71.0246789	139.901264	-0.97	0.000799365	0.980354196	3.097254871	4732440D04Rik
Nkpd1	35.967837	70.4697251	-0.96	0.015166023	0.980354196	1.81912829	Nkpd1
Mest	29.2248275	57.0405744	-0.96	0.048232695	0.980354196	1.316658471	Mest
Ptar1	48.2146219	93.3937836	-0.96	0.012501727	0.980354196	1.903029989	Ptar1
Shisa6	39.9439041	77.4549676	-0.95	0.000838382	0.980354196	3.076558055	Shisa6
Gm26642	24.3606481	47.4174137	-0.95	0.022501264	0.980354196	1.647793085	Gm26642
Npff	20.0530113	38.9718878	-0.95	0.01427253	0.980354196	1.845499035	Npff
Cnr1	44.4462227	85.8005131	-0.95	0.004918672	0.980354196	2.308152137	Cnr1
Zfp971	81.6908908	156.049608	-0.93	0.028296841	0.980354196	1.548262045	Zfp971
Gm45110	36.0437504	68.7658522	-0.93	0.043700793	0.980354196	1.359510682	Gm45110
Smpd3b	21.1441101	40.5188487	-0.93	0.010849212	0.980354196	1.964601804	Smpd3b
Sema3d	313.832601	596.151509	-0.93	0.003755623	0.980354196	2.42531801	Sema3d
Frem1	83.7173443	159.077967	-0.92	0.02605415	0.980354196	1.584123091	Frem1
Soga1	247.283272	466.5285	-0.91	0.003629746	0.980354196	2.440123765	Soga1
Kif5a	32.9343627	62.409002	-0.91	0.011854532	0.980354196	1.926115587	Kif5a
Layn	34.09724	63.83306	-0.91	0.0402025405	0.980354196	1.376488093	Layn
Gm43328	62.9221939	117.788618	-0.90	0.035921855	0.980354196	1.444641245	Gm43328
Ighv5-9-1	115.655809	215.480927	-0.90	0.000111737	0.980354196	3.951802993	Ighv5-9-1
Gpr161	29.4712223	55.1821212	-0.89	0.019412515	0.980354196	1.711918196	Gpr161
Igkv6-20	97.6251316	180.527164	-0.89	0.001299253	0.980354196	2.886306272	Igkv6-20
Klri1	100.76644	186.100821	-0.88	0.003503691	0.980354196	2.455474202	Klri1
Adgrl3	86.6284005	158.827736	-0.87	0.021661914	0.980354196	1.664031173	Adgrl3
Gm19461	32.5850863	59.9347642	-0.87	0.030449135	0.980354196	1.51642504	Gm19461
Cxad	56.688441	103.713665	-0.87	0.003994043	0.980354196	2.398587264	Cxad
Stard9	268.166254	488.252104	-0.86	0.021471455	0.980354196	1.668138525	Stard9
Ighv5-4	549.32663	341.803229	-0.86	0.02129133	0.980354196	1.671797209	Ighv5-4
Rbfox1	18.2719285	33.3868752	-0.86	0.017612603	0.980354196	1.754176454	Rbfox1
Cemp1	184.021016	334.836438	-0.86	0.00135478	0.980354196	2.868131223	Cemp1
Arhgap32	159.190772	288.640127	-0.86	0.02054038	0.980354196	1.687391526	Arhgap32
Gm12276	27.705997	50.2071683	-0.85	0.032247061	0.980354196	1.491509861	Gm12276
Pdcd1lg2	65.9588423	118.725078	-0.85	0.002507833	0.980354196	2.600701387	Pdcd1lg2
Dgki	39.8659863	71.3896376	-0.84	0.046360972	0.980354196	1.333847467	Dgki
Zfp423	75.0524579	134.968914	-0.84	0.031427579	0.980354196	1.502689073	Zfp423
Chic1	57.5824118	103.344216	-0.84	0.016934181	0.980354196	1.771235803	Chic1

predicted gene 28187 [Source:MGI Symbol;Acc:MGI:5578893]
immunoglobulin heavy joining 3 [Source:MGI Symbol;Acc:MGI:4439767]
predicted gene, 26581 [Source:MGI Symbol;Acc:MGI:5477075]
novel transcript
lipase, family member N [Source:MGI Symbol;Acc:MGI:1917416]
predicted gene, 38394 [Source:MGI Symbol;Acc:MGI:5614057]
cDNA sequence BC005561 [Source:MGI Symbol;Acc:MGI:3040669]
predicted gene 16015 [Source:MGI Symbol;Acc:MGI:3801811]
predicted gene 44850 [Source:MGI Symbol;Acc:MGI:5753426]
immunoglobulin heavy variable 1-61 [Source:MGI Symbol;Acc:MGI:4439824]
predicted gene 6627 [Source:MGI Symbol;Acc:MGI:3644486]
potassium voltage-gated channel, subfamily H (eag-related), member 1 [Source:MGI Symbol;Acc:MGI:1341721]
synaptic vesicle glycoprotein 2 b [Source:MGI Symbol;Acc:MGI:1927338]
protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 2 [Source:MGI Symbol;Acc:MGI:45884]
predicted gene 45884 [Source:MGI Symbol;Acc:MGI:5804999]
predicted gene 45220 [Source:MGI Symbol;Acc:MGI:5753796]
solute carrier family 2 (facilitated glucose transporter), member 13 [Source:MGI Symbol;Acc:MGI:2146030]
zinc finger protein 871 [Source:MGI Symbol;Acc:MGI:1921793]
V-set and immunoglobulin domain containing 2 [Source:MGI Symbol;Acc:MGI:1928009]
angiopoietin-like 7 [Source:MGI Symbol;Acc:MGI:3605801]
ATPase, Cu++ transporting, alpha polypeptide [Source:MGI Symbol;Acc:MGI:99400]
predicted gene, 21762 [Source:MGI Symbol;Acc:MGI:5433926]
kelch-like 29 [Source:MGI Symbol;Acc:MGI:2683857]
WD40 repeat domain 95 [Source:MGI Symbol;Acc:MGI:1923042]
potassium voltage-gated channel, shaker-related subfamily, member 3 [Source:MGI Symbol;Acc:MGI:96660]
predicted gene 20633 [Source:MGI Symbol;Acc:MGI:5313080]
glycosyltransferase 8 domain containing 2 [Source:MGI Symbol;Acc:MGI:1922032]
family with sequence similarity 184, member A [Source:MGI Symbol;Acc:MGI:1923156]
GPRIN family member 3 [Source:MGI Symbol;Acc:MGI:1924785]
zinc finger protein 69 [Source:MGI Symbol;Acc:MGI:107794]
immunoglobulin heavy variable V1-12 [Source:MGI Symbol;Acc:MGI:3646284]
RIKEN cDNA 9530082P21 gene [Source:MGI Symbol;Acc:MGI:3603340]
phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 2 [Source:MGI Symbol;Acc:MGI:1923338]
predicted gene, 38190 [Source:MGI Symbol;Acc:MGI:5611418]
predicted gene 15674 [Source:MGI Symbol;Acc:MGI:3783116]
HEAT repeat containing 9 [Source:MGI Symbol;Acc:MGI:3650286]
arylsulfatase i [Source:MGI Symbol;Acc:MGI:2670959]
ryanodine receptor 2, cardiac [Source:MGI Symbol;Acc:MGI:99685]
fer-1-like 6 (C. elegans) [Source:MGI Symbol;Acc:MGI:3645398]
storkhead box 2 [Source:MGI Symbol;Acc:MGI:1918319]
desert hedgehog [Source:MGI Symbol;Acc:MGI:94891]
immunoglobulin kappa variable 1-135 [Source:MGI Symbol;Acc:MGI:3819952]
cadherin 4 [Source:MGI Symbol;Acc:MGI:99218]
ligand dependent nuclear receptor corepressor [Source:MGI Symbol;Acc:MGI:2443930]
growth differentiation factor 6 [Source:MGI Symbol;Acc:MGI:95689]
immunoglobulin kappa chain variable 12-41 [Source:MGI Symbol;Acc:MGI:4439772]
RIKEN cDNA 4732440D04 gene [Source:MGI Symbol;Acc:MGI:3604103]
NTPase, KAP family P-loop domain containing 1 [Source:MGI Symbol;Acc:MGI:1916797]
mesoderm specific transcript [Source:MGI Symbol;Acc:MGI:96968]
protein prenyltransferase alpha subunit repeat containing 1 [Source:MGI Symbol;Acc:MGI:1921875]
shisa family member 6 [Source:MGI Symbol;Acc:MGI:2685725]
predicted gene, 26642 [Source:MGI Symbol;Acc:MGI:5477136]
neuropeptide FF-amide peptide precursor [Source:MGI Symbol;Acc:MGI:1891708]
cannabinoid receptor 1 (brain) [Source:MGI Symbol;Acc:MGI:104615]
zinc finger protein 971 [Source:MGI Symbol;Acc:MGI:1261426]
predicted gene 45110 [Source:MGI Symbol;Acc:MGI:5753686]
sphingomyelin phosphodiesterase, acid-like 3B [Source:MGI Symbol;Acc:MGI:1916022]
sema domain, immunoglobulin domain (lg), short basic domain, secreted, (semaphorin) 3D [Source:MGI Symbol;Acc:MGI:1916022]
Fras1 related extracellular matrix protein 1 [Source:MGI Symbol;Acc:MGI:2670972]
suppressor of glucose, autophagy associated 1 [Source:MGI Symbol;Acc:MGI:2444575]
kinesin family member 5A [Source:MGI Symbol;Acc:MGI:109564]
layilin [Source:MGI Symbol;Acc:MGI:2685357]
predicted gene 43328 [Source:MGI Symbol;Acc:MGI:5663465]
immunoglobulin heavy variable 5-9-1 [Source:MGI Symbol;Acc:MGI:4439810]
G protein-coupled receptor 161 [Source:MGI Symbol;Acc:MGI:2685054]
immunoglobulin kappa variable 6-20 [Source:MGI Symbol;Acc:MGI:1330836]
killer cell lectin-like receptor family I member 1 [Source:MGI Symbol;Acc:MGI:3530275]
adhesion G protein-coupled receptor L3 [Source:MGI Symbol;Acc:MGI:2441950]
predicted gene, 19461 [Source:MGI Symbol;Acc:MGI:5011646]
coxsa virus and adenovirus receptor [Source:MGI Symbol;Acc:MGI:1201679]
START domain containing 9 [Source:MGI Symbol;Acc:MGI:3045258]
immunoglobulin heavy variable 5-4 [Source:MGI Symbol;Acc:MGI:4439895]
RNA binding protein, fox-1 homolog (C. elegans) 1 [Source:MGI Symbol;Acc:MGI:1926224]
cell migration inducing protein, hyaluronan binding [Source:MGI Symbol;Acc:MGI:2443629]
Rho GTPase activating protein 32 [Source:MGI Symbol;Acc:MGI:2450166]
predicted gene 12276 [Source:MGI Symbol;Acc:MGI:3649700]
programmed cell death 1 ligand 2 [Source:MGI Symbol;Acc:MGI:1930125]
diacylglycerol kinase, iota [Source:MGI Symbol;Acc:MGI:2443430]
zinc finger protein 423 [Source:MGI Symbol;Acc:MGI:1891217]
cysteine-rich hydrophobic domain 1 [Source:MGI Symbol;Acc:MGI:1344694]

Lama2	158.551067	281.541524	-0.83	0.005444436	0.980354196	2.264047103	Lama2	laminin, alpha 2 [Source:MGI Symbol;Acc:MGI:99912]
Gm16185	60.4824097	107.38776	-0.83	0.037868382	0.980354196	1.421723251	Gm16185	predicted gene 16185 [Source:MGI Symbol;Acc:MGI:3802169]
Zfp354c	80.1673488	141.448018	-0.81	0.033316483	0.980354196	1.47734085	Zfp354c	zinc finger protein 354C [Source:MGI Symbol;Acc:MGI:1353621]
Epha3	36.4311148	64.2364685	-0.81	0.035761531	0.980354196	1.446583897	Epha3	Eph receptor A3 [Source:MGI Symbol;Acc:MGI:99612]
Rnf113a1	50.792982	88.9094881	-0.81	0.027801002	0.980354196	1.555939551	Rnf113a1	ring finger protein 113A1 [Source:MGI Symbol;Acc:MGI:1917192]
Tmem200a	28.1874872	49.2839138	-0.80	0.021927304	0.980354196	1.659014762	Tmem200a	transmembrane protein 200A [Source:MGI Symbol;Acc:MGI:1924470]
Ccm2l	101.821533	178.290402	-0.80	0.00467453	0.980354196	2.330262049	Ccm2l	cerebral cavernous malformation 2-like [Source:MGI Symbol;Acc:MGI:2385159]
Pcdh18	255.238037	444.408518	-0.80	0.012075346	0.980354196	1.918100416	Pcdh18	protocadherin 18 [Source:MGI Symbol;Acc:MGI:1920423]
Efr3b	101.606624	176.345861	-0.80	0.048563798	0.980354196	1.313687356	Efr3b	EFR3 homolog B [Source:MGI Symbol;Acc:MGI:2444851]
Ptprg	170.224818	295.94056	-0.80	0.032283784	0.980354196	1.491015567	Ptprg	protein tyrosine phosphatase, receptor type, G [Source:MGI Symbol;Acc:MGI:97814]
Hmcn1	407.189823	703.368144	-0.79	0.037089911	0.980354196	1.430744209	Hmcn1	hemiscentin 1 [Source:MGI Symbol;Acc:MGI:2685047]
Zfp13	23.1558805	39.995822	-0.79	0.028014479	0.980354196	1.55261745	Zfp13	zinc finger protein 13 [Source:MGI Symbol;Acc:MGI:99159]
Gm6483	21.3839632	37.2957899	-0.79	0.043077513	0.980354196	1.365749378	Gm6483	predicted gene 6483 [Source:MGI Symbol;Acc:MGI:3644574]
Skint3	67.8624726	117.313836	-0.78	0.01854634	0.980354196	1.731741783	Skint3	selection and upkeep of intraepithelial T cells 3 [Source:MGI Symbol;Acc:MGI:3045331]
Igkv6-17	498.18679	857.771657	-0.78	0.011997022	0.980354196	1.920926545	Igkv6-17	immunoglobulin kappa variable 6-17 [Source:MGI Symbol;Acc:MGI:1330833]
Slc35d3	38.8665932	67.0368155	-0.78	0.045412151	0.980354196	1.342827927	Slc35d3	solute carrier family 35, member D3 [Source:MGI Symbol;Acc:MGI:1923407]
Sdk2	186.294452	320.310303	-0.78	0.027664442	0.980354196	1.558078085	Sdk2	sidekick cell adhesion molecule 2 [Source:MGI Symbol;Acc:MGI:2443847]
Dntt	37.3977185	64.2706485	-0.78	0.010747235	0.980354196	1.968703255	Dntt	deoxynucleotidyltransferase, terminal [Source:MGI Symbol;Acc:MGI:98659]
Ppp1r3f	37.2130386	63.7832666	-0.78	0.035291982	0.980354196	1.452323951	Ppp1r3f	protein phosphatase 1, regulatory subunit 3F [Source:MGI Symbol;Acc:MGI:1859617]
Gucyl1a1	510.120963	874.004331	-0.78	0.013826009	0.980354196	1.859303165	Gucyl1a1	guanylate cyclase 1, soluble, alpha 1 [Source:MGI Symbol;Acc:MGI:1926562]
Card10	132.028342	226.498812	-0.78	0.038713058	0.980354196	1.412142522	Card10	caspase recruitment domain family, member 10 [Source:MGI Symbol;Acc:MGI:2146012]
Ophn1	55.1481391	94.2215893	-0.77	0.034115702	0.980354196	1.467045688	Ophn1	oligophrenin 1 [Source:MGI Symbol;Acc:MGI:2151070]
Terb1	50.9918931	87.6730726	-0.77	0.00779919	0.980354196	2.107950499	Terb1	telomere repeat binding bouquet formation protein 1 [Source:MGI Symbol;Acc:MGI:2443187]
Arhgap20	84.7401839	144.238205	-0.76	0.038753137	0.980354196	1.411693136	Arhgap20	Rho GTPase activating protein 20 [Source:MGI Symbol;Acc:MGI:2445175]
Ighv7-1	243.905066	413.036133	-0.76	0.021152331	0.980354196	1.674641766	Ighv7-1	immunoglobulin heavy variable 7-1 [Source:MGI Symbol;Acc:MGI:4439622]
Ptprb	1111.09138	1881.29169	-0.76	0.015875935	0.980354196	1.799260688	Ptprb	protein tyrosine phosphatase, receptor type, B [Source:MGI Symbol;Acc:MGI:97809]
AC130815.2	53.1582096	90.3084998	-0.76	0.030010106	0.980354196	1.522732471	AC130815.2	novel transcript
Cadps2	47.3840698	80.1203248	-0.75	0.017284378	0.980354196	1.762346244	Cadps2	Ca2+-dependent activator protein for secretion 2 [Source:MGI Symbol;Acc:MGI:2443963]
Hykk	30.8772994	52.3913542	-0.75	0.035548873	0.980354196	1.449174163	Hykk	hydroxyllysine kinase 1 [Source:MGI Symbol;Acc:MGI:2443139]
Tnf	71.9322675	121.738523	-0.75	0.040308039	0.980354196	1.39460833	Tnf	tumor necrosis factor [Source:MGI Symbol;Acc:MGI:104798]
Gm5431	75.0512142	126.53033	-0.75	0.005845344	0.980354196	2.233189925	Gm5431	predicted gene 5431 [Source:MGI Symbol;Acc:MGI:3645205]
Nipal1	30.674207	51.3662966	-0.75	0.011178782	0.980354196	1.951605513	Nipal1	NIPA-like domain containing 1 [Source:MGI Symbol;Acc:MGI:1917951]
Pdgfrf	49.9227447	84.2816377	-0.75	0.013360865	0.980354196	1.874165424	Pdgfrf	platelet-derived growth factor, D polypeptide [Source:MGI Symbol;Acc:MGI:1919035]
Mamlid1	120.406492	202.463597	-0.75	0.00181801	0.980354196	2.740381994	Mamlid1	mastermind-like domain containing 1 [Source:MGI Symbol;Acc:MGI:3045303]
Triqk	22.9744507	38.2445502	-0.74	0.045377986	0.980354196	1.343154783	Triqk	triple QxxK/R motif containing [Source:MGI Symbol;Acc:MGI:3650048]
Igkv1-122	110.020463	183.893383	-0.74	0.01367338	0.980354196	1.864124116	Igkv1-122	immunoglobulin kappa chain variable 1-122 [Source:MGI Symbol;Acc:MGI:4439722]
Fras1	122.357483	204.480718	-0.74	0.005397833	0.980354196	2.267780556	Fras1	Fraser extracellular matrix complex subunit 1 [Source:MGI Symbol;Acc:MGI:2385368]
Ccdc9b	125.547656	209.263309	-0.74	0.022108156	0.980354196	1.65544748	Ccdc9b	coiled-coil domain containing 9B [Source:MGI Symbol;Acc:MGI:2685199]
Sema3a	290.555245	483.528866	-0.73	0.020277074	0.980354196	1.692994714	Sema3a	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A [Source:MGI Symbol;Acc:MGI:1929213]
Zbtb20	920.885867	1532.81908	-0.73	0.047260448	0.980354196	1.325502166	Zbtb20	zinc finger and BTB domain containing 20 [Source:MGI Symbol;Acc:MGI:1929213]
Naip6	209.588581	348.525531	-0.73	0.040355877	0.980354196	1.39409321	Naip6	NLR family, apoptosis inhibitory protein 6 [Source:MGI Symbol;Acc:MGI:1298222]
Thrb	59.2325997	98.4118529	-0.73	0.03754172	0.980354196	1.425488834	Thrb	thyroid hormone receptor beta [Source:MGI Symbol;Acc:MGI:98743]
Crispld1	138.800359	230.068134	-0.73	0.007394002	0.980354196	2.131120436	Crispld1	cysteine-rich secretory protein LCCL domain containing 1 [Source:MGI Symbol;Acc:MGI:1934666]
Rab43	213.429629	352.694715	-0.72	0.018779456	0.980354196	1.726316992	Rab43	RAB43, member RAS oncogene family [Source:MGI Symbol;Acc:MGI:1917084]
Cd226	171.722699	283.778296	-0.72	0.001462503	0.980354196	2.834903234	Cd226	CD226 antigen [Source:MGI Symbol;Acc:MGI:3039602]
Dock4	253.502954	417.756038	-0.72	0.018920244	0.980354196	1.723073267	Dock4	dedicator of cytokinesis 4 [Source:MGI Symbol;Acc:MGI:1918006]
Zc3h12c	168.875137	278.417128	-0.72	0.049499908	0.980354196	1.305395608	Zc3h12c	zinc finger CCH type containing 12C [Source:MGI Symbol;Acc:MGI:3026959]
Ston2	198.706335	326.824023	-0.72	0.004636553	0.980354196	2.333804771	Ston2	stonin 2 [Source:MGI Symbol;Acc:MGI:1918272]
Tet1	93.7744119	154.304396	-0.72	0.041202085	0.980354196	1.385080806	Tet1	tet methylcytosine dioxygenase 1 [Source:MGI Symbol;Acc:MGI:1098693]
Gm19605	59.8650704	98.4475136	-0.71	0.034124609	0.980354196	1.466932316	Gm19605	predicted gene, 19605 [Source:MGI Symbol;Acc:MGI:5011790]
Hunk	32.0808161	52.922189	-0.71	0.047379624	0.980354196	1.32440839	Hunk	hormonally upregulated Neu-associated kinase [Source:MGI Symbol;Acc:MGI:1347352]
Sec31b	89.9794964	147.715744	-0.71	0.032615624	0.980354196	1.486574308	Sec31b	Sec31 homolog B (S. cerevisiae) [Source:MGI Symbol;Acc:MGI:2685187]
Dmx12	222.347767	363.883083	-0.71	0.009866297	0.980354196	2.005845815	Dmx12	Dmx-like 2 [Source:MGI Symbol;Acc:MGI:2446430]
Cdk14	340.026708	556.121365	-0.71	0.002470522	0.980354196	2.607211274	Cdk14	cyclin-dependent kinase 14 [Source:MGI Symbol;Acc:MGI:894318]
Kcnj5	44.241678	71.8388111	-0.71	0.013918947	0.980354196	1.856393619	Kcnj5	potassium inwardly-rectifying channel, subfamily J, member 5 [Source:MGI Symbol;Acc:MGI:104755]
Pvrig	36.8896656	60.3847533	-0.71	0.038960329	0.980354196	1.409377384	Pvrig	poliovirus receptor related immunoglobulin domain containing [Source:MGI Symbol;Acc:MGI:5596028]
Pcdh17	211.091156	344.496001	-0.71	0.017643498	0.980354196	1.753415307	Pcdh17	protocadherin 17 [Source:MGI Symbol;Acc:MGI:2684924]
Gli3	89.7104065	146.662065	-0.71	0.038850833	0.980354196	1.410599665	Gli3	GLI3 family zinc finger 3 [Source:MGI Symbol;Acc:MGI:2444289]
Plk3c2a	417.334246	677.881346	-0.70	0.036623821	0.980354196	1.436236347	Plk3c2a	phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha [Source:MGI Symbol;Acc:MGI:1203729]
Hs6st2	607.300868	985.926018	-0.70	0.004693098	0.980354196	2.328540377	Hs6st2	heparan sulfate 6-O-sulfotransferase 2 [Source:MGI Symbol;Acc:MGI:1354959]
Arc	62.951797	102.376254	-0.70	0.015662809	0.980354196	1.805130348	Arc	activity regulated cytoskeletal-associated protein [Source:MGI Symbol;Acc:MGI:88067]
Tmem150b	56.2116764	91.6763027	-0.70	0.012216248	0.980354196	1.913062159	Tmem150b	transmembrane protein 150B [Source:MGI Symbol;Acc:MGI:2679718]
Siglec1	914.718341	1481.6594	-0.70	0.046399022	0.980354196	1.333491173	Siglec1	sialic acid binding Ig-like lectin 1, sialoadhesin [Source:MGI Symbol;Acc:MGI:99668]
Wdfy3	687.068986	1106.84372	-0.69	0.02904076	0.980354196	1.536952022	Wdfy3	WD repeat and FYVE domain containing 3 [Source:MGI Symbol;Acc:MGI:1096875]
Col17a1	34.5910553	56.124924	-0.69	0.049266795	0.980354196	1.307445689	Col17a1	collagen, type XVII, alpha 1 [Source:MGI Symbol;Acc:MGI:88450]
Rtl5	138.915994	224.055528	-0.69	0.015376414	0.980354196	1.813144936	Rtl5	retrotransposon Gag like 5 [Source:MGI Symbol;Acc:MGI:3045324]
Adgra2	317.834726	511.187439	-0.68	0.00928332	0.980354196	2.032296679	Adgra2	adhesion G protein-coupled receptor A2 [Source:MGI Symbol;Acc:MGI:1925810]
Dsel	103.593016	166.822711	-0.68	0.00163313	0.980354196	2.786979243	Dsel	dermatan sulfate epimerase-like [Source:MGI Symbol;Acc:MGI:2442948]
Hrh2	117.695458	188.903199	-0.68	0.006747029	0.980354196	2.170887423	Hrh2	histamine receptor H2 [Source:MGI Symbol;Acc:MGI:108482]
Psd3	320.308456	512.652937	-0.68	0.016066094	0.980354196	1.794089696	Psd3	pleckstrin and Sec7 domain containing 3 [Source:MGI Symbol;Acc:MGI:1918215]
Zfp799	112.499799	180.37362	-0.68	0.043049611	0.980354196	1.362414106	Zfp799	zinc finger protein 799 [Source:MGI Symbol;Acc:MGI:2443934]
Filip1	56.8766183	90.9149902	-0.67	0.016158567	0.980354196	1.791597157	Filip1	filamin A interacting protein 1 [Source:MGI Symbol;Acc:MGI:1917848]
Zfp939	34.058875	54.5037144	-0.67	0.046675705	0.980354196	1.330909114	Zfp939	zinc finger protein 939 [Source:MGI Symbol;Acc:MGI:3036240]
Gm15448	69.3895948	110.99245	-0.67	0.03097355	0.980354196	1.480206712	Gm15448	predicted gene 15448 [Source:MGI Symbol;Acc:MGI:3705216]
Scl17a5	169.080217	269.74588	-0.67	0.006349383	0.980354196	2.197268475	Scl17a5	solute carrier family 17 (anion/sugar transporter), member 5 [Source:MGI Symbol;Acc:MGI:1924105]
Timp3	663.752121	1056.79608	-0.67	0.041395718	0.980354196	1.38304458	Timp3	tissue inhibitor of metalloproteinase 3 [Source:MGI Symbol;Acc:MGI:98754]
Ighv7-3	444.845447	708.111836	-0.67	0.033660215	0.980354196	1.472883114	Ighv7-3	immunoglobulin heavy variable 7-3 [Source:MGI Symbol;Acc:MGI:4439766]
Gvin1	210.536439	334.477954	-0.67	0.019837748	0.980354196	1.702052531	Gvin1	GTPase, very large interferon inducible 1 [Source:MGI Symbol;Acc:MGI:1921808]
Fmn1	99.1501214	157.430965	-0.66	0.038583056	0.980354196	1.413603377	Fmn1	formin 1 [Source:MGI Symbol;Acc:MGI:101815]
Cmtm4	409.379793	647.911155	-0.66	0.031761385	0.980354196	1.498100568	Cmtm4	CKLF-like MARVEL transmembrane domain containing 4 [Source:MGI Symbol;Acc:MGI:2142888]

P2ry10b	189.260181	299.218659	-0.66	0.027677676	0.980354196	1.557870379	P2ry10b	purinergic receptor P2Y, G-protein coupled 10b [Source:MGI Symbol;Acc:MGI:2441814]
Cds1	72.6440637	115.017809	-0.66	0.015637921	0.980354196	1.805820985	Cds1	CDP-diacylglycerol synthase 1 [Source:MGI Symbol;Acc:MGI:1921846]
Prox1	144.19214	227.854352	-0.66	0.029832787	0.980354196	1.525306173	Prox1	prospero homeobox 1 [Source:MGI Symbol;Acc:MGI:97772]
Gm27042	27.5554172	43.6983784	-0.66	0.047514263	0.980354196	1.323176003	Gm27042	predicted gene, 27042 [Source:MGI Symbol;Acc:MGI:5504157]
Pitpnm3	113.188066	178.284466	-0.65	0.025085035	0.980354196	1.600585289	Pitpnm3	PITPNM family member 3 [Source:MGI Symbol;Acc:MGI:2685726]
Lilrb4a	320.559422	502.915987	-0.65	0.031968837	0.980354196	1.495273163	Lilrb4a	leukocyte immunoglobulin-like receptor, subfamily B, member 4A [Source:MGI Symbol;Acc:MGI:102701]
Pdgfra	64.9546551	102.197222	-0.65	0.019947675	0.980354196	1.700107716	Pdgfr	platelet-derived growth factor, C polypeptide [Source:MGI Symbol;Acc:MGI:1859631]
Fam124a	79.1587244	124.359314	-0.65	0.005653584	0.980354196	2.247676151	Fam124a	family with sequence similarity 124, member A [Source:MGI Symbol;Acc:MGI:3645930]
Ighv1-53	807.51164	1264.82546	-0.65	0.006853704	0.980354196	2.164074656	Ighv1-53	immunoglobulin heavy variable 1-53 [Source:MGI Symbol;Acc:MGI:3576502]
Npnt	1596.77959	2499.29994	-0.65	0.010975304	0.980354196	1.959583442	Npnt	nephronectin [Source:MGI Symbol;Acc:MGI:2148811]
Mam13	178.697141	279.890733	-0.65	0.035976746	0.980354196	1.44397812	Mam13	mastermind like transcriptional coactivator 3 [Source:MGI Symbol;Acc:MGI:2389461]
Cacna1e	923.505596	1444.01482	-0.64	0.041373264	0.980354196	1.383280216	Cacna1e	calcium channel, voltage-dependent, R type, alpha 1E subunit [Source:MGI Symbol;Acc:MGI:106217]
Fan1	125.095177	195.230292	-0.64	0.035979627	0.980354196	1.443943343	Fan1	FANCD2/FANCI-associated nuclease 1 [Source:MGI Symbol;Acc:MGI:3045266]
Iiga2	176.964677	275.469353	-0.64	0.00500387	0.980354196	2.300693982	Iiga2	integrin alpha 2 [Source:MGI Symbol;Acc:MGI:96600]
Fut10	48.6687238	76.0027076	-0.63	0.013329465	0.980354196	1.875187281	Fut10	fucosyltransferase 10 [Source:MGI Symbol;Acc:MGI:2384748]
4921531C22Rik	43.0050414	66.733554	-0.63	0.02300154	0.980354196	1.638243086	4921531C22Rik	RIKEN cDNA 4921531C22 gene [Source:MGI Symbol;Acc:MGI:1913980]
Robo2	211.707759	328.630916	-0.63	0.046428779	0.980354196	1.333212737	Robo2	roundabout guidance receptor 2 [Source:MGI Symbol;Acc:MGI:1890110]
Ccbe1	200.761173	311.446856	-0.63	0.049350403	0.980354196	1.306709296	Ccbe1	collagen and calcium binding EGF domains 1 [Source:MGI Symbol;Acc:MGI:2445053]
Grk3	1203.39144	1864.14902	-0.63	0.0263704	0.980354196	1.578883283	Grk3	G protein-coupled receptor kinase 3 [Source:MGI Symbol;Acc:MGI:87941]
Ppfbp1	501.823227	776.463367	-0.63	0.02353066	0.980354196	1.628365891	Ppfbp1	PTPRF interacting protein, binding protein 1 (liprin beta 1) [Source:MGI Symbol;Acc:MGI:1914783]
Clic5	843.253041	1303.37725	-0.63	0.023118453	0.980354196	1.636041231	Clic5	chloride intracellular channel 5 [Source:MGI Symbol;Acc:MGI:1917912]
Fhod3	101.207937	156.587625	-0.63	0.027328161	0.980354196	1.563389592	Fhod3	formin homology 2 domain containing 3 [Source:MGI Symbol;Acc:MGI:1925847]
Ldlrad4	128.268213	198.123469	-0.63	0.034884421	0.980354196	1.457368481	Ldlrad4	low density lipoprotein receptor class A domain containing 4 [Source:MGI Symbol;Acc:MGI:1277150]
Adam23	681.094301	1050.79033	-0.62	0.04477679	0.980354196	1.348947044	Adam23	a disintegrin and metallopeptidase domain 23 [Source:MGI Symbol;Acc:MGI:1345162]
Itprip12	704.137503	1085.07036	-0.62	0.006012022	0.980354196	2.220979439	Itprip12	inositol 1,4,5-triphosphate receptor interacting protein-like 2 [Source:MGI Symbol;Acc:MGI:2442416]
C130074G19Rik	201.19648	310.288491	-0.62	0.024128168	0.980354196	1.617475652	C130074G19Rik	RIKEN cDNA C130074G19 gene [Source:MGI Symbol;Acc:MGI:2444831]
Smug1	199.152431	306.16635	-0.62	0.01482215	0.980354196	1.829088796	Smug1	single-strand selective monofunctional uracil DNA glycosylase [Source:MGI Symbol;Acc:MGI:1918976]
Sirt5	84.6630214	130.26542	-0.62	0.015704758	0.980354196	1.803968751	Sirt5	sirtuin 5 [Source:MGI Symbol;Acc:MGI:1915596]
Rmdn2	47.1174328	72.3527889	-0.62	0.030209174	0.980354196	1.519861149	Rmdn2	regulator of microtubule dynamics 2 [Source:MGI Symbol;Acc:MGI:2147043]
Shisa2	135.14663	207.580005	-0.62	0.049612446	0.980354196	1.304409361	Shisa2	shisa family member 2 [Source:MGI Symbol;Acc:MGI:2444716]
Plkna1	67.938939	1027.53733	-0.61	0.040463214	0.980354196	1.392939624	Plkna1	plexin A1 [Source:MGI Symbol;Acc:MGI:107685]
E230029C05Rik	125.886698	192.800845	-0.61	0.005422867	0.980354196	2.265771047	E230029C05Rik	RIKEN cDNA E230029C05 gene [Source:MGI Symbol;Acc:MGI:2442580]
Clec9a	422.038095	645.868217	-0.61	0.005785423	0.980354196	2.237664882	Clec9a	C-type lectin domain family 9, member a [Source:MGI Symbol;Acc:MGI:2444608]
Diaph2	334.236956	511.078281	-0.61	0.013639765	0.980354196	1.865193112	Diaph2	diaphanous related formin 2 [Source:MGI Symbol;Acc:MGI:1858500]
Myo9a	1111.52526	1697.32237	-0.61	0.027078645	0.980354196	1.567373071	Myo9a	myosin IXa [Source:MGI Symbol;Acc:MGI:107735]
Srgap3	261.00647	398.924399	-0.61	0.010784084	0.980354196	1.967216738	Srgap3	SLIT-ROBO Rho GTPase activating protein 3 [Source:MGI Symbol;Acc:MGI:2152938]
Rab39	116.083265	177.353697	-0.61	0.04550535	0.980354196	1.341937541	Rab39	RAB39, member RAS oncogene family [Source:MGI Symbol;Acc:MGI:2442855]
Aldh1l1	83.504702	127.543831	-0.60	0.044893618	0.980354196	1.347815393	Aldh1l1	aldehyde dehydrogenase 1 family, member L1 [Source:MGI Symbol;Acc:MGI:1340024]
3-Sep	67.0442083	101.96448	-0.60	0.046675462	0.980354196	1.330911375	3-Sep	septin 3 [Source:MGI Symbol;Acc:MGI:1345148]
Nxpe5	78.1872521	118.356632	-0.60	0.044579619	0.980354196	1.350883648	Nxpe5	neurexophilin and PC-esterase domain family, member 5 [Source:MGI Symbol;Acc:MGI:3584036]
Plekhp1	226.894014	344.683733	-0.60	0.029080492	0.980354196	1.53639825	Plekhp1	pleckstrin homology domain containing, family G (with RhoGEF domain) member 1 [Source:MGI Symbol;Acc:MGI:1919066]
Rnf180	52.9477352	80.6450123	-0.60	0.047593818	0.980354196	1.322449454	Rnf180	ring finger protein 180 [Source:MGI Symbol;Acc:MGI:1919066]
Vav3	314.914246	477.895675	-0.60	0.001375471	0.980354196	2.861548562	Vav3	vav 3 oncogene [Source:MGI Symbol;Acc:MGI:1888518]
Hpgds	384.253799	582.654923	-0.60	0.004757274	0.980354196	2.322641834	Hpgds	hematopoietic prostaglandin D synthase [Source:MGI Symbol;Acc:MGI:1859384]
Plknb1	387.606901	586.436874	-0.60	0.040947257	0.980354196	1.387775186	Plknb1	plexin B1 [Source:MGI Symbol;Acc:MGI:2154238]
Stab2	2411.27053	3644.39812	-0.60	0.022699614	0.980354196	1.643981528	Stab2	stabilin 2 [Source:MGI Symbol;Acc:MGI:2178743]
Mb21d2	51.9829193	78.9891127	-0.60	0.008951974	0.980354196	2.040801188	Mb21d2	Mab-21 domain containing 2 [Source:MGI Symbol;Acc:MGI:1917028]
Zswim7	60.3801303	91.5206889	-0.59	0.023029664	0.980354196	1.637712398	Zswim7	zinc finger SWIM-type containing 7 [Source:MGI Symbol;Acc:MGI:1916997]
Rin2	278.051599	419.505528	-0.59	0.013284804	0.980354196	1.876644849	Rin2	Ras and Rab interactor 2 [Source:MGI Symbol;Acc:MGI:1921280]
Dpy19l4	378.166855	569.875406	-0.59	0.016678633	0.980354196	1.777839548	Dpy19l4	dpy-19-like 4 (C. elegans) [Source:MGI Symbol;Acc:MGI:2685869]
Adra1b	36.2378196	55.0837009	-0.59	0.03620149	0.980354196	1.441273554	Adra1b	adrenergic receptor, alpha 1b [Source:MGI Symbol;Acc:MGI:104774]
Mss51	64.7404832	97.6964059	-0.59	0.045041203	0.980354196	1.346390018	Mss51	MSS51 mitochondrial translational activator [Source:MGI Symbol;Acc:MGI:1922093]
Btbd3	189.084237	284.740278	-0.59	0.01322543	0.980354196	1.878590801	Btbd3	BTB (POZ) domain containing 3 [Source:MGI Symbol;Acc:MGI:2385155]
F5	213.011719	319.245406	-0.59	0.049078556	0.980354196	1.309108224	F5	coagulation factor V [Source:MGI Symbol;Acc:MGI:88382]
Lrrn1	230.832327	346.154615	-0.58	0.015580307	0.980354196	1.807423989	Lrrn1	leucine rich repeat protein 1, neuronal [Source:MGI Symbol;Acc:MGI:106038]
Ddx60	251.515617	376.762017	-0.58	0.04721402	0.980354196	1.32592902	Ddx60	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 [Source:MGI Symbol;Acc:MGI:2384570]
Zfp772	47.7416696	71.5914169	-0.58	0.039240383	0.980354196	1.406266762	Zfp772	zinc finger protein 772 [Source:MGI Symbol;Acc:MGI:2385265]
Gpr141b	182.903671	273.289137	-0.58	0.04947501	0.980354196	1.305614109	Gpr141b	G protein-coupled receptor 141B [Source:MGI Symbol;Acc:MGI:2441809]
Trio	711.168388	1061.42426	-0.58	0.046224507	0.980354196	1.335127712	Trio	triple functional domain (PTPRF interacting) [Source:MGI Symbol;Acc:MGI:1927230]
Fmn12	463.145313	690.439861	-0.58	0.022488966	0.980354196	1.648030512	Fmn12	formin-like 2 [Source:MGI Symbol;Acc:MGI:1918659]
Id4	207.211922	309.335443	-0.57	0.012206377	0.980354196	1.913413221	Id4	inhibitor of DNA binding 4 [Source:MGI Symbol;Acc:MGI:99414]
Olfrml1	99.409385	148.398085	-0.57	0.048840951	0.980354196	1.311215888	Olfrml1	olfactomedin-like 1 [Source:MGI Symbol;Acc:MGI:2679264]
Sema6d	909.144806	1352.12355	-0.57	0.017336306	0.980354196	1.761043436	Sema6d	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D [Source:MGI Symbol;Acc:MGI:2679264]
Gprc5b	132.953407	197.865142	-0.57	0.046777736	0.980354196	1.329960801	Gprc5b	G protein-coupled receptor, family C, group 5, member B [Source:MGI Symbol;Acc:MGI:1927596]
Jam2	215.504873	320.260148	-0.57	0.030521367	0.980354196	1.515396019	Jam2	junction adhesion molecule 2 [Source:MGI Symbol;Acc:MGI:1933820]
Shank3	650.098463	964.056528	-0.57	0.023264824	0.980354196	1.633300229	Shank3	SH3 and multiple ankyrin repeat domains 3 [Source:MGI Symbol;Acc:MGI:1930016]
Gprc5c	154.538379	229.450913	-0.57	0.025919606	0.980354196	1.586371604	Gprc5c	G protein-coupled receptor, family C, group 5, member C [Source:MGI Symbol;Acc:MGI:1917605]
Tubb2b	178.321383	263.928169	-0.57	0.006659661	0.980354196	2.176547877	Tubb2b	tubulin, beta 2B class IIB [Source:MGI Symbol;Acc:MGI:1920960]
Gm28192	64.7267196	95.8805625	-0.56	0.028458051	0.980354196	1.545794847	Gm28192	predicted gene 28192 [Source:MGI Symbol;Acc:MGI:5578898]
Mmrn2	424.833967	628.5303	-0.56	0.020777276	0.980354196	1.682411391	Mmrn2	multimerin 2 [Source:MGI Symbol;Acc:MGI:2385618]
Amtot1	446.375375	660.561895	-0.56	0.039655625	0.980354196	1.401695201	Amtot1	angiominin-like 1 [Source:MGI Symbol;Acc:MGI:1922973]
Zfp945	261.777225	387.396736	-0.56	0.015118482	0.980354196	1.820491813	Zfp945	zinc finger protein 945 [Source:MGI Symbol;Acc:MGI:2445132]
Klrc1	128.649058	190.852152	-0.56	0.006433941	0.980354196	2.191522926	Klrc1	killer cell lectin-like receptor subfamily C, member 1 [Source:MGI Symbol;Acc:MGI:1336161]
Tmem215	145.104152	214.664112	-0.56	0.025056353	0.980354196	1.601082141	Tmem215	transmembrane protein 215 [Source:MGI Symbol;Acc:MGI:2444167]
Zeb2	1536.94679	2271.30508	-0.56	0.030875444	0.980354196	1.510386788	Zeb2	zinc finger E-box binding homeobox 2 [Source:MGI Symbol;Acc:MGI:1344407]
Pdzd4	109.825207	162.749305	-0.56	0.036164624	0.980354196	1.441716046	Pdzd4	PDZ domain containing 4 [Source:MGI Symbol;Acc:MGI:2443483]
Glis2	170.643946	252.698606	-0.56	0.041445318	0.980354196	1.382524524	Glis2	GLIS family zinc finger 2 [Source:MGI Symbol;Acc:MGI:1932535]
Shroom3	392.797517	580.046399	-0.56	0.030520315	0.980354196	1.515410988	Shroom3	shroom family member 3 [Source:MGI Symbol;Acc:MGI:1351655]
Tanc2	148.40687	219.249701	-0.56	0.037541748	0.980354196	1.42548551	Tanc2	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2 [Source:MGI Symbol;Acc:MGI:2444121]
Dclre1c	337.607348	498.339269	-0.56	0.03742438	0.980354196	1.426845386	Dclre1c	DNA cross-link repair 1C [Source:MGI Symbol;Acc:MGI:2441769]

Adgre4	1168.85455	1723.29647	-0.56	0.007915008	0.980354196	2.101548642	Adgre4
Fndc7	100.595376	148.310763	-0.56	0.011102726	0.980354196	1.954570378	Fndc7
Mrc2	200.759959	296.219533	-0.56	0.017328	0.980354196	1.761251561	Mrc2
Lrp1	4256.2897	6259.26122	-0.56	0.037065595	0.980354196	1.431029024	Lrp1
Arhgap29	620.68414	912.463758	-0.56	0.035919075	0.980354196	1.444674856	Arhgap29
OtuD3	99.57445	146.813736	-0.55	0.038884967	0.980354196	1.410218265	OtuD3
Exoc3l4	209.792113	308.445185	-0.55	0.019149482	0.980354196	1.717842969	Exoc3l4
Gm37494	555.816185	815.692125	-0.55	0.024527518	0.980354196	1.610346397	Gm37494
Pex1	177.758199	261.296616	-0.55	0.02498609	0.980354196	1.6023017	Pex1
5330417C22Rik	100.259379	147.308752	-0.55	0.03925918	0.980354196	1.469468392	5330417C22Rik
Siglech	427.430144	626.364264	-0.55	0.049769494	0.980354196	1.303036775	Siglech
Col8a2	240.45506	352.896785	-0.55	0.016818438	0.980354196	1.774214341	Col8a2
Kazn	331.115922	483.943623	-0.55	0.003562357	0.980354196	2.44826256	Kazn
Syt15	116.517995	169.623369	-0.54	0.020255037	0.980354196	1.693466959	Syt15
Sorbs2	670.929253	976.194373	-0.54	0.037483634	0.980354196	1.426158311	Sorbs2
Nhlrc3	414.997443	603.999935	-0.54	0.028837373	0.980354196	1.540044305	Nhlrc3
Spns3	284.937765	413.87956	-0.54	0.004635992	0.980354196	2.333857322	Spns3
Met	307.273809	445.7508	-0.54	0.037127686	0.980354196	1.430302118	Met
Pard3b	102.620319	148.927172	-0.53	0.036000204	0.980354196	1.443695038	Pard3b
Pde5a	195.079989	281.470058	-0.53	0.002576433	0.980354196	2.588981147	Pde5a
Slc38a6	170.55893	246.788255	-0.53	0.031003946	0.980354196	1.508583028	Slc38a6
Vangl2	152.236173	220.398207	-0.53	0.027308591	0.980354196	1.563700707	Vangl2
Cdc42bpb	642.5292	928.987812	-0.53	0.048735392	0.980354196	1.312155536	Cdc42bpb
Slc6a6	2007.51739	2901.50644	-0.53	0.034448904	0.980354196	1.462824591	Slc6a6
Lnpep	3608.55818	5211.77235	-0.53	0.026257619	0.980354196	1.580744568	Lnpep
Srr	124.177975	179.460127	-0.53	0.041788114	0.980354196	1.378947229	Srr
IL18rap	384.447601	553.866694	-0.53	0.018287771	0.980354196	1.737839225	IL18rap
Tmem38a	52.8351615	75.9932796	-0.53	0.028736097	0.980354196	1.541572219	Tmem38a
Tmem170b	583.98736	841.652912	-0.53	0.044507192	0.980354196	1.351569805	Tmem170b
Sgcb	213.002004	307.392875	-0.53	0.014635937	0.980354196	1.834579469	Sgcb
Tns3	3027.57501	4356.74825	-0.52	0.038305945	0.980354196	1.416733819	Tns3
B230307C23Rik	94.0174012	135.080625	-0.52	0.007163212	0.980354196	2.144892195	B230307C23Rik
Dcbld1	74.003965	106.448528	-0.52	0.008609793	0.980354196	2.06500729	Dcbld1
Amigo3	140.065519	201.536297	-0.52	0.032076203	0.980354196	1.493817047	Amigo3
Abca1	1678.88601	2411.75094	-0.52	0.046649796	0.980354196	1.331150251	Abca1
Tmem26	499.644219	717.6535	-0.52	0.0079004	0.980354196	2.102131091	Tmem26
Efnb2	296.335772	425.746554	-0.52	0.027319806	0.980354196	1.563522389	Efnb2
Klrk1	482.617583	691.576119	-0.52	0.002620235	0.980354196	2.581659757	Klrk1
Ccdc80	705.265114	1008.84699	-0.52	0.008402874	0.980354196	2.075572149	Ccdc80
IL830077J02Rik	679.499251	971.097281	-0.51	0.024252217	0.980354196	1.615248555	IL830077J02Rik
Plcba4	221.167396	316.058309	-0.51	0.017954507	0.980354196	1.745826515	Plcba4
Synpo2	912.808273	1303.24452	-0.51	0.032412558	0.980354196	1.489286693	Synpo2
Mycl	378.212554	540.040684	-0.51	0.001941385	0.980354196	2.71188833	Mycl
Cirbp	1214.83142	1731.75248	-0.51	0.007770937	0.980354196	2.109526612	Cirbp
Cd209b	275.624397	392.103694	-0.51	0.039367754	0.980354196	1.404859362	Cd209b
Gm26541	93.2621229	132.909871	-0.51	0.04224184	0.980354196	1.374257173	Gm26541
Plekha6	1150.16448	1632.13667	-0.50	0.048442288	0.980354196	1.314775353	Plekha6
Sspn	213.619212	330.31061	-0.50	0.039885263	0.980354196	1.39918754	Sspn
Pde3a	395.546787	559.854715	-0.50	0.034454008	0.980354196	1.46276025	Pde3a
Rab11fip3	287.013088	406.338326	-0.50	0.009007482	0.980354196	2.045396597	Rab11fip3
Rab11fip5	415.173487	586.799585	-0.50	0.025324629	0.980354196	1.596456908	Rab11fip5
Flt3	788.072135	1113.93436	-0.50	0.011232333	0.980354196	1.949533896	Flt3
Parva	466.991331	657.651835	-0.49	0.016697651	0.980354196	1.77734462	Parva
Serhl	134.913535	189.647102	-0.49	0.034301917	0.980354196	1.464681608	Serhl
Gpsm1	251.720798	354.344309	-0.49	0.015088953	0.980354196	1.821340894	Gpsm1
Bmf	582.432244	818.731824	-0.49	0.010962119	0.980354196	1.960105488	Bmf
Fgfr3	305.65508	429.49823	-0.49	0.04404755	0.980354196	1.356078243	Fgfr3
IItga9	957.67214	1344.06542	-0.49	0.03336218	0.980354196	1.477083673	IItga9
Gm30211	311.934521	436.849439	-0.48	0.048195105	0.980354196	1.316997069	Gm30211
Mtss1l	658.904214	922.14711	-0.48	0.038890356	0.980354196	1.410158081	Mtss1l
Tspan9	506.354736	708.325123	-0.48	0.011953255	0.980354196	1.922513816	Tspan9
Fzd1	762.130983	1065.59473	-0.48	0.047483917	0.980354196	1.323453463	Fzd1
Pdgfr	1022.00009	1427.96932	-0.48	0.04189738	0.980354196	1.354678573	Pdgfr
Cpld2	204.04123	285.109488	-0.48	0.030375826	0.980354196	1.480489301	Cpld2
Rhbdd1	328.827147	458.455729	-0.48	0.019483445	0.980354196	1.71033425	Rhbdd1
Trpm2	1617.7511	2250.62683	-0.48	0.031478931	0.980354196	1.501980024	Trpm2
Relch	692.027838	963.027096	-0.48	0.032675587	0.980354196	1.485776602	Relch
Cavin2	906.89444	1260.70679	-0.47	0.013594037	0.980354196	1.866651552	Cavin2
Lacc1	264.182731	367.558513	-0.47	0.024718148	0.980354196	1.606984072	Lacc1
Fam214a	771.582354	1070.38513	-0.47	0.028677712	0.980354196	1.569155898	Fam214a
Fgf1	334.581159	463.272309	-0.47	0.02188401	0.980354196	1.659873095	Fgf1
Npl	132.891074	184.352204	-0.47	0.023414166	0.980354196	1.630521307	Npl
Mfsd4b4	101.917925	141.418321	-0.47	0.027724461	0.980354196	1.557136888	Mfsd4b4
Mthfr	468.355329	648.004052	-0.47	0.040308568	0.980354196	1.39460231	Mthfr
Lair1	639.967057	884.394546	-0.47	0.003509799	0.980354196	2.454717754	Lair1
Hip1	883.526013	1220.00857	-0.47	0.028297446	0.980354196	1.54825276	Hip1
Ccdc148	109.457548	150.444469	-0.46	0.042011831	0.980354196	1.37662839	Ccdc148
Aldh1b1	158.24594	217.445458	-0.46	0.00360734	0.980354196	2.514174412	Aldh1b1
IL18r1	374.179705	515.224458	-0.46	0.044354886	0.980354196	1.353058533	IL18r1
Mmm1	161.451935	221.893884	-0.46	0.030622648	0.980354196	1.513957258	Mmm1

adhesion G protein-coupled receptor E4 [Source:MGI Symbol;Acc:MGI:1196464]	
fibronectin type III domain containing 7 [Source:MGI Symbol;Acc:MGI:2443535]	
mannose receptor, C type 2 [Source:MGI Symbol;Acc:MGI:107818]	
low density lipoprotein receptor-related protein 1 [Source:MGI Symbol;Acc:MGI:96828]	
Rho GTPase activating protein 29 [Source:MGI Symbol;Acc:MGI:2443818]	
OTU domain containing 3 [Source:MGI Symbol;Acc:MGI:1920412]	
exocyst complex component 3-like 4 [Source:MGI Symbol;Acc:MGI:1921363]	
predicted gene, 37494 [Source:MGI Symbol;Acc:MGI:5610722]	
peroxisomal biogenesis factor 1 [Source:MGI Symbol;Acc:MGI:1918632]	
RIKEN cDNA 5330417C22 gene [Source:MGI Symbol;Acc:MGI:1923930]	
sialic acid binding Ig-like lectin H [Source:MGI Symbol;Acc:MGI:2443256]	
collagen, type VIII, alpha 2 [Source:MGI Symbol;Acc:MGI:88464]	
kazrin, periplakin interacting protein [Source:MGI Symbol;Acc:MGI:1918779]	
synaptotagmin XV [Source:MGI Symbol;Acc:MGI:2442166]	
sorbin and SH3 domain containing 2 [Source:MGI Symbol;Acc:MGI:1924574]	
NHL repeat containing 3 [Source:MGI Symbol;Acc:MGI:2444520]	
spinster homolog 3 [Source:MGI Symbol;Acc:MGI:1924827]	
met proto-oncogene [Source:MGI Symbol;Acc:MGI:96969]	
par-3 family cell polarity regulator beta [Source:MGI Symbol;Acc:MGI:1919301]	
phosphodiesterase 5A, cGMP-specific [Source:MGI Symbol;Acc:MGI:2651499]	
solute carrier family 38, member 6 [Source:MGI Symbol;Acc:MGI:3648156]	
VANGL planar cell polarity 2 [Source:MGI Symbol;Acc:MGI:2135272]	
CD42 binding protein kinase beta [Source:MGI Symbol;Acc:MGI:2136459]	
solute carrier family 6 (neurotransmitter transporter, taurine), member 6 [Source:MGI Symbol;Acc:MGI:98488]	
leucyl/cystinyl aminopeptidase [Source:MGI Symbol;Acc:MGI:2387123]	
serine racemase [Source:MGI Symbol;Acc:MGI:1351636]	
interleukin 18 receptor accessory protein [Source:MGI Symbol;Acc:MGI:1338888]	
transmembrane protein 38A [Source:MGI Symbol;Acc:MGI:1921416]	
transmembrane protein 170B [Source:MGI Symbol;Acc:MGI:3647046]	
sarcoglycan, beta (dystrophin-associated glycoprotein) [Source:MGI Symbol;Acc:MGI:1346523]	
tensin 3 [Source:MGI Symbol;Acc:MGI:2443012]	
RIKEN cDNA B230307C23 gene [Source:MGI Symbol;Acc:MGI:3643396]	
discoidin, CUB and LCL1 domain containing 1 [Source:MGI Symbol;Acc:MGI:1913936]	
adhesion molecule with Ig like domain 3 [Source:MGI Symbol;Acc:MGI:2444854]	
ATP-binding cassette, sub-family A (ABC1), member 1 [Source:MGI Symbol;Acc:MGI:99607]	
transmembrane protein 26 [Source:MGI Symbol;Acc:MGI:2143537]	
ephrin B2 [Source:MGI Symbol;Acc:MGI:105097]	
killer cell lectin-like receptor subfamily K, member 1 [Source:MGI Symbol;Acc:MGI:1196250]	
coiled-coil domain containing 80 [Source:MGI Symbol;Acc:MGI:1915146]	
RIKEN cDNA IL830077J02 gene [Source:MGI Symbol;Acc:MGI:3588284]	
phospholipase C, beta 4 [Source:MGI Symbol;Acc:MGI:107464]	
synaptopodin 2 [Source:MGI Symbol;Acc:MGI:2153070]	
v-myc avian myelocytomatosis viral oncogene lung carcinoma derived [Source:MGI Symbol;Acc:MGI:96799]	
cold inducible RNA binding protein [Source:MGI Symbol;Acc:MGI:893588]	
CD209b antigen [Source:MGI Symbol;Acc:MGI:1916415]	
predicted gene, 26541 [Source:MGI Symbol;Acc:MGI:5477035]	
pleckstrin homology domain containing, family A member 6 [Source:MGI Symbol;Acc:MGI:2388662]	
sarcospan [Source:MGI Symbol;Acc:MGI:1353511]	
phosphodiesterase 3A, cGMP inhibited [Source:MGI Symbol;Acc:MGI:1860764]	
RAB11 family interacting protein 3 (class II) [Source:MGI Symbol;Acc:MGI:2444431]	
RAB11 family interacting protein 5 (class II) [Source:MGI Symbol;Acc:MGI:1098586]	
FMS-like tyrosine kinase 3 [Source:MGI Symbol;Acc:MGI:95559]	
parvin, alpha [Source:MGI Symbol;Acc:MGI:1931144]	
serine hydrolase-like [Source:MGI Symbol;Acc:MGI:1890404]	
G-protein signalling modulator 1 (AGS3-like, C. elegans) [Source:MGI Symbol;Acc:MGI:1915089]	
BCL2 modifying factor [Source:MGI Symbol;Acc:MGI:2176433]	
fibroblast growth factor receptor 3 [Source:MGI Symbol;Acc:MGI:95524]	
integrin alpha 9 [Source:MGI Symbol;Acc:MGI:104756]	
predicted gene, 30211 [Source:MGI Symbol;Acc:MGI:5589370]	
metastasis suppressor 3-like [Source:MGI Symbol;Acc:MGI:3039591]	
tetraspanin 9 [Source:MGI Symbol;Acc:MGI:1924558]	
frizzled class receptor 1 [Source:MGI Symbol;Acc:MGI:1196625]	
platelet derived growth factor receptor, beta polypeptide [Source:MGI Symbol;Acc:MGI:97531]	
complexin 2 [Source:MGI Symbol;Acc:MGI:104726]	
rhomboid domain containing 1 [Source:MGI Symbol;Acc:MGI:1924117]	
transient receptor potential cation channel, subfamily M, member 2 [Source:MGI Symbol;Acc:MGI:1351901]	
RAB11 binding and LiSH domain, coiled-coil and HEAT repeat containing [Source:MGI Symbol;Acc:MGI:1922832]	
caveolae associated 2 [Source:MGI Symbol;Acc:MGI:99513]	
laccase domain containing 1 [Source:MGI Symbol;Acc:MGI:2445077]	
family with sequence similarity 214, member A [Source:MGI Symbol;Acc:MGI:2387648]	
fibroblast growth factor 1 [Source:MGI Symbol;Acc:MGI:95515]	
N-acetylneuraminate pyruvate lyase [Source:MGI Symbol;Acc:MGI:1921341]	
major facilitator superfamily domain containing 4B4 [Source:MGI Symbol;Acc:MGI:3035041]	
methylenetetrahydrofolate reductase [Source:MGI Symbol;Acc:MGI:106639]	
leukocyte-associated Ig-like receptor 1 [Source:MGI Symbol;Acc:MGI:105492]	
huntingtin interacting protein 1 [Source:MGI Symbol;Acc:MGI:1099804]	
coiled-coil domain containing 148 [Source:MGI Symbol;Acc:MGI:3039583]	
aldehyde dehydrogenase 1 family, member B1 [Source:MGI Symbol;Acc:MGI:1919785]	
interleukin 18 receptor 1 [Source:MGI Symbol;Acc:MGI:105383]	
multimerin 1 [Source:MGI Symbol;Acc:MGI:1918195]	

Arl13b	195.715796	269.613464	-0.46	0.011448942	0.980354196	1.941234645	Arl13b	ADP-ribosylation factor-like 13B [Source:MGI Symbol;Acc:MGI:1915396]
Z510009E07Rik	287.647549	395.170034	-0.46	0.025733337	0.980354196	1.589503893	Z510009E07Rik	RIKEN cDNA 2510009E07 gene [Source:MGI Symbol;Acc:MGI:1919440]
Rims3	519.322459	711.538108	-0.45	0.032679342	0.980354196	1.485726697	Rims3	regulating synaptic membrane exocytosis 3 [Source:MGI Symbol;Acc:MGI:24433331]
Dnmt3a	1636.51308	2241.03548	-0.45	0.030783102	0.980354196	1.511687619	Dnmt3a	DNA methyltransferase 3A [Source:MGI Symbol;Acc:MGI:1261827]
Plpp3	716.392988	980.872356	-0.45	0.046982234	0.980354196	1.328066336	Plpp3	phospholipid phosphatase 3 [Source:MGI Symbol;Acc:MGI:1915166]
Ccr2	834.188346	1139.79981	-0.45	0.030105986	0.980354196	1.521347145	Ccr2	chemokine (C-C motif) receptor 2 [Source:MGI Symbol;Acc:MGI:106185]
Gpr35	394.578514	539.146753	-0.45	0.010492199	0.980354196	1.979133481	Gpr35	G protein-coupled receptor 35 [Source:MGI Symbol;Acc:MGI:1929509]
Mfap3l	69.379781	94.3383896	-0.45	0.023794125	0.980354196	1.623530261	Mfap3l	microfibrillar-associated protein 3-like [Source:MGI Symbol;Acc:MGI:1918556]
Ptpre	613.808687	838.268639	-0.45	0.011949125	0.980354196	1.922663896	Ptpre	protein tyrosine phosphatase, receptor type, E [Source:MGI Symbol;Acc:MGI:97813]
Socs2	195.554437	267.649477	-0.45	0.011585604	0.980354196	1.93608132	Socs2	suppressor of cytokine signaling 2 [Source:MGI Symbol;Acc:MGI:1201787]
Eps8	314.47224	429.257042	-0.45	0.037011	0.980354196	1.431669181	Eps8	epidermal growth factor receptor pathway substrate 8 [Source:MGI Symbol;Acc:MGI:104684]
Ankrd50	860.459953	1170.42593	-0.44	0.045778771	0.980354196	1.339335871	Ankrd50	ankyrin repeat domain 50 [Source:MGI Symbol;Acc:MGI:2139777]
Phldb1	303.315191	412.206286	-0.44	0.049988062	0.980354196	1.3011337	Phldb1	pleckstrin homology like domain, family 8, member 1 [Source:MGI Symbol;Acc:MGI:2143230]
Stab1	727.06207	987.038647	-0.44	0.013422944	0.980354196	1.872152222	Stab1	stabilin 1 [Source:MGI Symbol;Acc:MGI:2178742]
Itdag	1265.48008	1715.90881	-0.44	0.009803557	0.980354196	2.008616322	Itdag	integrin, alpha D [Source:MGI Symbol;Acc:MGI:3578624]
Zfp763	112.865273	153.355301	-0.44	0.041342709	0.980354196	1.383601069	Zfp763	zinc finger protein 763 [Source:MGI Symbol;Acc:MGI:1920701]
Gsdme	223.7635	303.269382	-0.44	0.015138908	0.980354196	1.81990545	Gsdme	gasdermin E [Source:MGI Symbol;Acc:MGI:1889850]
Ifi207	456.623254	618.244498	-0.44	0.019519088	0.980354196	1.709540478	Ifi207	interferon activated gene 207 [Source:MGI Symbol;Acc:MGI:2138302]
Ccdc8	160.855348	217.76888	-0.44	0.040326063	0.980354196	1.394414176	Ccdc8	coiled-coil domain containing 8 [Source:MGI Symbol;Acc:MGI:3612184]
Mrc1	2236.95879	3026.29292	-0.44	0.014561773	0.980354196	1.836785743	Mrc1	mannose receptor, C type 1 [Source:MGI Symbol;Acc:MGI:97142]
Vill	143.252438	193.528733	-0.44	0.035454001	0.980354196	1.450334747	Vill	villin-like [Source:MGI Symbol;Acc:MGI:1201781]
Cuedc1	295.603736	399.416055	-0.43	0.044196517	0.980354196	1.354611955	Cuedc1	CUE domain containing 1 [Source:MGI Symbol;Acc:MGI:2144281]
Fam102b	522.438184	705.515614	-0.43	0.008040637	0.980354196	2.094709544	Fam102b	family with sequence similarity 102, member B [Source:MGI Symbol;Acc:MGI:3036259]
Pcdh12	549.872682	741.392142	-0.43	0.043566357	0.980354196	1.360848754	Pcdh12	protocadherin 12 [Source:MGI Symbol;Acc:MGI:1855700]
Sema3g	300.317289	404.98252	-0.43	0.047465336	0.980354196	1.32362344	Sema3g	sema domain, immunoglobulin domain (lg), short basic domain, secreted, (semaphorin) 3G [Source:MGI Symbol;Acc:MGI:1855700]
Frmdb4	1084.87466	1460.38863	-0.43	0.019239119	0.980354196	1.715814819	Frmdb4	FERM domain containing 4B [Source:MGI Symbol;Acc:MGI:2141794]
Lmbrd2	586.451854	788.877044	-0.43	0.035459551	0.980354196	1.450266768	Lmbrd2	LMBR1 domain containing 2 [Source:MGI Symbol;Acc:MGI:2444173]
Ppfia4	470.666188	632.714842	-0.43	0.002482868	0.980354196	2.605046369	Ppfia4	protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 4 [Source:MGI Symbol;Acc:MGI:1855700]
Ccl6	647.167586	868.227536	-0.43	0.011704717	0.980354196	1.931639082	Ccl6	chemokine (C-C motif) ligand 6 [Source:MGI Symbol;Acc:MGI:98263]
Htra3	358.919173	481.8293	-0.42	0.047522161	0.980354196	1.323103819	Htra3	Htra serine peptidase 3 [Source:MGI Symbol;Acc:MGI:1925808]
Anpep	728.980344	977.609662	-0.42	0.003900838	0.980354196	2.408842085	Anpep	alanyl (membrane) aminopeptidase [Source:MGI Symbol;Acc:MGI:5000466]
Adgre1	1655.43624	2217.22808	-0.42	0.024404396	0.980354196	1.612531937	Adgre1	adhesion G protein-coupled receptor E1 [Source:MGI Symbol;Acc:MGI:106912]
Sdc3	5991.94455	8023.45425	-0.42	0.009431023	0.980354196	2.025441196	Sdc3	syndecan 3 [Source:MGI Symbol;Acc:MGI:1349163]
Fbwv17	157.981057	211.974968	-0.42	0.037970101	0.980354196	1.420558248	Fbwv17	F-box and WD-40 domain protein 17 [Source:MGI Symbol;Acc:MGI:1923584]
Cpne3	844.74928	1130.54593	-0.42	0.025255632	0.980354196	1.597641759	Cpne3	copine III [Source:MGI Symbol;Acc:MGI:1917818]
Tubb1	322.320452	430.321849	-0.42	0.026266384	0.980354196	1.580599711	Tubb1	tubulin, beta 1 class VI [Source:MGI Symbol;Acc:MGI:107814]
Arhgef10	220.555009	295.181998	-0.42	0.039305269	0.980354196	1.405549227	Arhgef10	Rho guanine nucleotide exchange factor (GEF) 10 [Source:MGI Symbol;Acc:MGI:2444453]
Snx21	277.893531	371.750831	-0.42	0.031623413	0.980354196	1.49999126	Snx21	sorting nexin family member 21 [Source:MGI Symbol;Acc:MGI:1917729]
Klf9	273.483252	364.898116	-0.41	0.048441623	0.980354196	1.314781315	Klf9	Kruppel-like factor 9 [Source:MGI Symbol;Acc:MGI:1333856]
Myom1	186.280256	248.740411	-0.41	0.045968157	0.980354196	1.337542908	Myom1	myomesin 1 [Source:MGI Symbol;Acc:MGI:1341430]
Slc40a1	7184.89321	9568.52908	-0.41	0.035723262	0.980354196	1.447404809	Slc40a1	solute carrier family 40 (iron-regulated transporter), member 1 [Source:MGI Symbol;Acc:MGI:1315204]
Msrb3	332.29248	442.407541	-0.41	0.021868863	0.980354196	1.660173796	Msrb3	methionine sulfoxide reductase B3 [Source:MGI Symbol;Acc:MGI:2443538]
Stx3	168.468557	224.362245	-0.41	0.003707909	0.980354196	2.430870933	Stx3	syntaxin 3 [Source:MGI Symbol;Acc:MGI:103077]
Man1c1	383.496533	509.444233	-0.41	0.009111486	0.980354196	2.040410788	Man1c1	mannosidase, alpha, class 1C, member 1 [Source:MGI Symbol;Acc:MGI:2446214]
Sema3f	620.290642	824.067016	-0.41	0.028583195	0.980354196	1.543889228	Sema3f	sema domain, immunoglobulin domain (lg), short basic domain, secreted, (semaphorin) 3F [Source:MGI Symbol;Acc:MGI:104875]
Ltbr	444.133313	589.860579	-0.41	0.003527221	0.980354196	2.452567329	Ltbr	lymphotoxin B receptor [Source:MGI Symbol;Acc:MGI:104875]
Plekhh5	253.204212	336.449071	-0.41	0.007234825	0.980354196	2.140571969	Plekhh5	pleckstrin homology domain containing, family G (with RhoGef domain) member 5 [Source:MGI Symbol;Acc:MGI:109573]
Etv5	372.244099	493.871435	-0.41	0.047875434	0.980354196	1.319887276	Etv5	ets variant 5 [Source:MGI Symbol;Acc:MGI:1096867]
Slc43a2	1554.73462	2060.68651	-0.41	0.030659284	0.980354196	1.513437992	Slc43a2	solute carrier family 43, member 2 [Source:MGI Symbol;Acc:MGI:2442746]
Rnf144b	388.014792	513.712409	-0.40	0.010008351	0.980354196	1.999637472	Rnf144b	ring finger protein 144B [Source:MGI Symbol;Acc:MGI:2384986]
Tep1	1247.75604	1651.15463	-0.40	0.048683621	0.980354196	1.312617127	Tep1	telomerase associated protein 1 [Source:MGI Symbol;Acc:MGI:109573]
Rilp1	143.598584	190.280155	-0.40	0.010262545	0.980354196	1.988744926	Rilp1	Rab interacting lysosomal protein-like 1 [Source:MGI Symbol;Acc:MGI:1922945]
Ptgir	188.429727	249.176662	-0.40	0.014573699	0.980354196	1.836430204	Ptgir	prostaglandin I receptor (IP) [Source:MGI Symbol;Acc:MGI:99535]
Ctso	1242.10418	1640.36383	-0.40	0.031238929	0.980354196	1.505303864	Ctso	cathepsin O [Source:MGI Symbol;Acc:MGI:2139628]
Rtn4r1	359.493734	474.888312	-0.40	0.018067853	0.980354196	1.743093452	Rtn4r1	reticulon 4 receptor-like 1 [Source:MGI Symbol;Acc:MGI:2661375]
Pura	475.023691	626.944166	-0.40	0.025084496	0.980354196	1.60059462	Pura	purine rich element binding protein A [Source:MGI Symbol;Acc:MGI:103079]
P2ry13	826.36656	1089.28713	-0.40	0.041647364	0.980354196	1.380412481	P2ry13	purinergic receptor P2Y, G-protein coupled 13 [Source:MGI Symbol;Acc:MGI:1921441]
Rgs18	226.874687	298.746669	-0.40	0.023191722	0.980354196	1.634667004	Rgs18	regulator of G-protein signaling 18 [Source:MGI Symbol;Acc:MGI:1927498]
Arsb	341.283497	448.970624	-0.40	0.031206926	0.980354196	1.505749009	Arsb	arylsulfatase B [Source:MGI Symbol;Acc:MGI:88075]
Cflar	2211.33231	2905.27115	-0.39	0.049514437	0.980354196	1.305268155	Cflar	CASP8 and FADD-like apoptosis regulator [Source:MGI Symbol;Acc:MGI:1336166]
Gabra3	311.378474	408.849989	-0.39	0.019643267	0.980354196	1.70678628	Gabra3	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 3 [Source:MGI Symbol;Acc:MGI:95615]
Bmp6	253.086347	332.898719	-0.39	0.02679734	0.980354196	1.571908313	Bmp6	bone morphogenetic protein 6 [Source:MGI Symbol;Acc:MGI:88182]
Hap1	1002.08731	1316.02999	-0.39	0.042968731	0.980354196	1.366847472	Hap1	huntingtin-associated protein 1 [Source:MGI Symbol;Acc:MGI:1261831]
Pcolce2	182.08062	238.491255	-0.39	0.037800694	0.980354196	1.422500227	Pcolce2	procollagen C-endopeptidase enhancer 2 [Source:MGI Symbol;Acc:MGI:1923727]
Klra4	98.3332978	128.956324	-0.39	0.042057148	0.980354196	1.376160181	Klra4	killer cell lectin-like receptor, subfamily A, member 4 [Source:MGI Symbol;Acc:MGI:101904]
Kcnj10	1023.23628	1337.67363	-0.39	0.047521948	0.980354196	1.323105765	Kcnj10	potassium inwardly-rectifying channel, subfamily J, member 10 [Source:MGI Symbol;Acc:MGI:1194504]
Rap1gap2	694.589105	906.700512	-0.38	0.041430449	0.980354196	1.38268036	Rap1gap2	RAP1 GTPase activating protein 2 [Source:MGI Symbol;Acc:MGI:3028623]
5730480H06Rik	154.655911	202.152177	-0.38	0.038231589	0.980354196	1.417577651	5730480H06Rik	RIKEN cDNA 5730480H06 gene [Source:MGI Symbol;Acc:MGI:1917842]
Zdhhc21	636.16016	830.433198	-0.38	0.049078443	0.980354196	1.309109224	Zdhhc21	zinc finger, DHHC domain containing 21 [Source:MGI Symbol;Acc:MGI:1915518]
Nos3	162.674143	212.462446	-0.38	0.036798232	0.980354196	1.434173047	Nos3	nitric oxide synthase 3, endothelial cell [Source:MGI Symbol;Acc:MGI:97362]
C1qtnf1	258.542457	336.853739	-0.38	0.027510373	0.980354196	1.560503521	C1qtnf1	C1q and tumor necrosis factor related protein 1 [Source:MGI Symbol;Acc:MGI:1919254]
H6pd	1297.10176	1688.36789	-0.38	0.028924794	0.980354196	1.538727925	H6pd	hexose 6-phosphate dehydrogenase (glucose 1-dehydrogenase) [Source:MGI Symbol;Acc:MGI:2140356]
Ctbp2	220.226053	286.392351	-0.38	0.027632029	0.980354196	1.558587224	Ctbp2	C-terminal binding protein 2 [Source:MGI Symbol;Acc:MGI:1201686]
Col14a1	1991.90154	2591.64126	-0.38	0.038594409	0.980354196	1.413475605	Col14a1	collagen, type XIV, alpha 1 [Source:MGI Symbol;Acc:MGI:1341272]
Tmem110	446.627679	580.225421	-0.38	0.007495097	0.980354196	2.125222742	Tmem110	transmembrane protein 110 [Source:MGI Symbol;Acc:MGI:1921500]
6530402F18Rik	70.602212	351.529852	-0.38	0.02027829	0.980354196	1.69296867	6530402F18Rik	RIKEN cDNA 6530402F18 gene [Source:MGI Symbol;Acc:MGI:1923470]
Zfp513	464.10757	601.697884	-0.37	0.027317768	0.980354196	1.563554788	Zfp513	zinc finger protein 513 [Source:MGI Symbol;Acc:MGI:2141255]
Mpeg1	8705.59898	11276.8886	-0.37	0.035473527	0.980354196	1.450095629	Mpeg1	macrophage expressed gene 1 [Source:MGI Symbol;Acc:MGI:1333743]
Phf11d	148.297705	192.398279	-0.37	0.022072309	0.980354196	1.656152233	Phf11d	PHD finger protein 11D [Source:MGI Symbol;Acc:MGI:1277133]
Fzd7	208.43115	269.924736	-0.37	0.042858202	0.980354196	1.367966053	Fzd7	frizzled class receptor 7 [Source:MGI Symbol;Acc:MGI:108570]

Lgalsl	283.306927	366.93359	-0.37	0.027847883	0.980354196	1.555207814	Lgalsl	lectin, galactoside binding-like [Source:MGI Symbol;Acc:MGI:1916114]
Palm	327.403702	422.492678	-0.37	0.032285599	0.980354196	1.490991152	Palm	paralemmin [Source:MGI Symbol;Acc:MGI:1261814]
Tlx1	583.124032	752.987596	-0.37	0.02253153	0.980354196	1.647209317	Tlx1	T cell leukemia, homeobox 1 [Source:MGI Symbol;Acc:MGI:98769]
Sema6b	218.834339	282.130427	-0.37	0.032441469	0.980354196	1.488899488	Sema6b	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6B [Source:MGI Symbol;Acc:1.488899488]
Ptgs1	744.393326	959.087156	-0.37	0.03700641	0.980354196	1.431723044	Ptgs1	prostaglandin-endoperoxide synthase 1 [Source:MGI Symbol;Acc:MGI:97797]
Gsap	676.913873	872.259323	-0.36	0.048111207	0.980354196	1.317753748	Gsap	gamma-secretase activating protein [Source:MGI Symbol;Acc:MGI:2442259]
Havcr2	481.696538	619.718679	-0.36	0.034627805	0.980354196	1.460575037	Havcr2	hepatitis A virus cellular receptor 2 [Source:MGI Symbol;Acc:MGI:2159682]
Abcg3	1817.28556	2335.70146	-0.36	0.037440991	0.980354196	1.426652665	Abcg3	ATP binding cassette subfamily G member 3 [Source:MGI Symbol;Acc:MGI:1351624]
Zfp790	289.495327	372.627136	-0.36	0.045143906	0.980354196	1.345400867	Zfp790	zinc finger protein 790 [Source:MGI Symbol;Acc:MGI:1923431]
Vwa5a	835.761994	1072.83735	-0.36	0.027187821	0.980354196	1.565625598	Vwa5a	von Willebrand factor A domain containing 5A [Source:MGI Symbol;Acc:MGI:1915026]
Adamts5	411.788768	528.297924	-0.36	0.029415616	0.980354196	1.531422053	Adamts5	a disintegrin-like and metallopeptidase (repolysin type) with thrombospondin type 1 motif, 5 (aggrecanase-2) [Sc
Ddr1	721.822216	924.950211	-0.36	0.03108244	0.980354196	1.507484896	Ddr1	discoidin domain receptor family, member 1 [Source:MGI Symbol;Acc:MGI:99216]
Nabp1	918.166852	1175.77775	-0.36	0.048316981	0.980354196	1.315990021	Nabp1	nucleic acid binding protein 1 [Source:MGI Symbol;Acc:MGI:1923258]
Rab33b	370.273399	473.441803	-0.35	0.046604036	0.980354196	1.331576471	Rab33b	RAB33B, member RAS oncogene family [Source:MGI Symbol;Acc:MGI:1330805]
Axl	5986.9277	7625.08784	-0.35	0.020291641	0.980354196	1.69268283	Axl	AXL receptor tyrosine kinase [Source:MGI Symbol;Acc:MGI:1347244]
Myliip	1615.07619	2056.86806	-0.35	0.027939543	0.980354196	1.553780702	Myliip	myosin regulatory light chain interacting protein [Source:MGI Symbol;Acc:MGI:2388271]
Hcar2	232.514246	295.958766	-0.35	0.046808035	0.980354196	1.32967959	Hcar2	hydroxycarboxylic acid receptor 2 [Source:MGI Symbol;Acc:MGI:1933383]
Cyth4	3029.08044	3857.06142	-0.35	0.003518332	0.980354196	2.453663132	Cyth4	cytohesin 4 [Source:MGI Symbol;Acc:MGI:2441702]
Xcr1	365.944606	466.263222	-0.35	0.040794377	0.980354196	1.389399695	Xcr1	chemokine (C motif) receptor 1 [Source:MGI Symbol;Acc:MGI:1346338]
1700025G04Rik	303.732858	386.446856	-0.34	0.049637195	0.980354196	1.304192768	1700025G04Rik	RIKEN cDNA 1700025G04 gene [Source:MGI Symbol;Acc:MGI:1916649]
Gaint3	286.604852	362.826043	-0.34	0.040095088	0.980354196	1.396908829	Gaint3	polypeptide N-acetylglucosaminyltransferase 3 [Source:MGI Symbol;Acc:MGI:894695]
Rcan3	368.632103	467.70731	-0.34	0.018098163	0.980354196	1.742365505	Rcan3	regulator of calcineurin 3 [Source:MGI Symbol;Acc:MGI:1858220]
Slc38a9	850.660085	1077.06926	-0.34	0.041392076	0.980354196	1.383082791	Slc38a9	solute carrier family 38, member 9 [Source:MGI Symbol;Acc:MGI:1918839]
Cd300a	1082.38417	1366.28136	-0.34	0.007738797	0.980354196	2.111326545	Cd300a	CD300A molecule [Source:MGI Symbol;Acc:MGI:2443411]
Shtn1	531.166679	670.802546	-0.34	0.019639372	0.980354196	1.706872404	Shtn1	shootin 1 [Source:MGI Symbol;Acc:MGI:1918903]
Selenop	5998.41779	7554.31104	-0.33	0.045939448	0.980354196	1.337814228	Selenop	selenoprotein P [Source:MGI Symbol;Acc:MGI:894288]
Slc35f5	177.813404	224.394481	-0.33	0.040926317	0.980354196	1.387997336	Slc35f5	solute carrier family 35, member F5 [Source:MGI Symbol;Acc:MGI:1921400]
Usp12	2133.97549	2685.67681	-0.33	0.041348381	0.980354196	1.383541491	Usp12	ubiquitin specific peptidase 12 [Source:MGI Symbol;Acc:MGI:1270128]
Star	1467.16002	1846.23395	-0.33	0.022003511	0.980354196	1.657508015	Star	steroidogenic acute regulatory protein [Source:MGI Symbol;Acc:MGI:102760]
Camk2n1	609.596611	766.489596	-0.33	0.009532758	0.980354196	2.020781432	Camk2n1	calcium/calmodulin-dependent protein kinase II inhibitor 1 [Source:MGI Symbol;Acc:MGI:1913509]
Etv6	1175.28866	1476.3155	-0.33	0.031766761	0.980354196	1.498027064	Etv6	ets variant 6 [Source:MGI Symbol;Acc:MGI:109336]
Ubash3b	597.4257	749.544668	-0.33	0.048002951	0.980354196	1.318732063	Ubash3b	ubiquitin associated and SH3 domain containing, B [Source:MGI Symbol;Acc:MGI:1920078]
Src	378.736526	474.952569	-0.33	0.047604382	0.980354196	1.322353068	Src	Rous sarcoma oncogene [Source:MGI Symbol;Acc:MGI:98397]
Gas2l1	507.463657	632.653086	-0.32	0.049464582	0.980354196	1.305705657	Gas2l1	growth arrest-specific 2 like 1 [Source:MGI Symbol;Acc:MGI:1926176]
4931406C07Rik	366.63685	455.519411	-0.31	0.045239027	0.980354196	1.344486744	4931406C07Rik	RIKEN cDNA 4931406C07 gene [Source:MGI Symbol;Acc:MGI:1918234]
Ppt1	3007.86448	3735.93309	-0.31	0.014261211	0.980354196	1.845843595	Ppt1	palmitoyl-protein thioesterase 1 [Source:MGI Symbol;Acc:MGI:1298204]
Scarb2	2542.99633	3153.80702	-0.31	0.022510205	0.980354196	1.64762055	Scarb2	scavenger receptor class B, member 2 [Source:MGI Symbol;Acc:MGI:1196458]
Acp2	1368.6021	1696.74745	-0.31	0.039958215	0.980354196	1.398393921	Acp2	acid phosphatase 2, lysosomal [Source:MGI Symbol;Acc:MGI:87882]
Dglicy	297.007823	368.542584	-0.31	0.047167326	0.980354196	1.326358744	Dglicy	D-glutamate cyclase [Source:MGI Symbol;Acc:MGI:2444813]
Inpp1	630.38919	781.32203	-0.31	0.034315194	0.980354196	1.464513541	Inpp1	inositol polyphosphate phosphatase-like 1 [Source:MGI Symbol;Acc:MGI:1333787]
Tcf7l2	359.228918	444.885374	-0.31	0.033179237	0.980354196	1.479133605	Tcf7l2	transcription factor 7 like 2, T cell specific, HMG box [Source:MGI Symbol;Acc:MGI:1202879]
Cd163	897.074922	1107.95175	-0.31	0.027501234	0.980354196	1.560647819	Cd163	CD163 antigen [Source:MGI Symbol;Acc:MGI:2135946]
Itgb5	1166.28247	1431.04086	-0.30	0.021322825	0.980354196	1.671155257	Itgb5	integrin beta 5 [Source:MGI Symbol;Acc:MGI:96614]
Col18a1	669.050961	821.57766	-0.30	0.044758497	0.980354196	1.349124506	Col18a1	collagen, type XVIII, alpha 1 [Source:MGI Symbol;Acc:MGI:88451]
Zcchc24	846.716228	1038.34295	-0.29	0.045623902	0.980354196	1.340807574	Zcchc24	zinc finger, CCHC domain containing 24 [Source:MGI Symbol;Acc:MGI:1919168]
Slc8b1	1243.10725	1520.11918	-0.29	0.027897463	0.980354196	1.55443529	Slc8b1	solute carrier family 8 (sodium/lithium/calcium exchanger), member B1 [Source:MGI Symbol;Acc:MGI:2180781]
Vamp4	591.494812	723.983638	-0.29	0.039451947	0.980354196	1.403931559	Vamp4	vesicle-associated membrane protein 4 [Source:MGI Symbol;Acc:MGI:1858730]
Igf1	1198.4577	1462.41373	-0.29	0.022715662	0.980354196	1.643674602	Igf1	insulin-like growth factor 1 [Source:MGI Symbol;Acc:MGI:96432]
BC035044	595.542608	724.02049	-0.28	0.009719675	0.980354196	2.012348256	BC035044	cDNA sequence BC035044 [Source:MGI Symbol;Acc:MGI:2448540]
Klh18	871.948531	1058.23277	-0.28	0.043160679	0.980354196	1.364911732	Klh18	kelch-like 18 [Source:MGI Symbol;Acc:MGI:2143315]
Crk	1567.99682	1901.34231	-0.28	0.045036434	0.980354196	1.346436004	Crk	v-crk avian sarcoma virus CT10 oncogene homolog [Source:MGI Symbol;Acc:MGI:88508]
Sh3bp2	1194.96736	1449.60019	-0.28	0.024669707	0.980354196	1.607836009	Sh3bp2	SH3-domain binding protein 2 [Source:MGI Symbol;Acc:MGI:1346349]
Neur13	2301.82483	2790.068	-0.28	0.003683943	0.980354196	2.433687098	Neur13	neuralized E3 ubiquitin protein ligase 3 [Source:MGI Symbol;Acc:MGI:2429944]
Cadm1	1035.25302	1251.57537	-0.27	0.04620577	0.980354196	1.335303788	Cadm1	cell adhesion molecule 1 [Source:MGI Symbol;Acc:MGI:1889272]
Pla2g15	1422.72653	1719.00665	-0.27	0.028130627	0.980354196	1.550820588	Pla2g15	phospholipase A2, group XV [Source:MGI Symbol;Acc:MGI:2178076]
Zfp385a	1063.46412	1283.75941	-0.27	0.035468896	0.980354196	1.450152329	Zfp385a	zinc finger protein 385A [Source:MGI Symbol;Acc:MGI:1352495]
Stam2	494.900266	597.384315	-0.27	0.027342651	0.980354196	1.563159381	Stam2	signal transducing adaptor molecule (SH3 domain and ITAM motif) 2 [Source:MGI Symbol;Acc:MGI:1929100]
Hdac5	1333.14279	1605.97656	-0.27	0.039359569	0.980354196	1.404949666	Hdac5	histone deacetylase 5 [Source:MGI Symbol;Acc:MGI:1333784]
Fbxo18	810.410559	975.700614	-0.27	0.026556947	0.980354196	1.575821853	Fbxo18	F-box protein 18 [Source:MGI Symbol;Acc:MGI:1354699]
Emi3	1367.66863	1645.46246	-0.27	0.032549804	0.980354196	1.487451622	Emi3	echinoderm microtubule associated protein like 3 [Source:MGI Symbol;Acc:MGI:2387612]
Trp53inp2	592.215966	709.158664	-0.26	0.040335293	0.980354196	1.394314784	Trp53inp2	transformation related protein 53 inducible nuclear protein 2 [Source:MGI Symbol;Acc:MGI:1915978]
Mpz1l	378.451885	452.519666	-0.26	0.040262957	0.980354196	1.395094333	Mpz1l	myelin protein zero-like 1 [Source:MGI Symbol;Acc:MGI:1915731]
Vhl	625.470905	746.80275	-0.25	0.026839353	0.980354196	1.571227958	Vhl	von Hippel-Lindau tumor suppressor [Source:MGI Symbol;Acc:MGI:103223]
Wdr45b	543.714576	647.750296	-0.25	0.02550107	0.980354196	1.593441597	Wdr45b	WD repeat domain 45B [Source:MGI Symbol;Acc:MGI:1914090]
Itgb3	1415.22643	1670.45735	-0.24	0.046791458	0.980354196	1.329833422	Itgb3	integrin beta 3 [Source:MGI Symbol;Acc:MGI:96612]
Snx25	728.272515	859.770967	-0.24	0.035821618	0.980354196	1.445854802	Snx25	sorting nexin 25 [Source:MGI Symbol;Acc:MGI:2142610]
Skap2	1518.22301	1788.92318	-0.24	0.017974279	0.980354196	1.745348521	Skap2	src family associated phosphoprotein 2 [Source:MGI Symbol;Acc:MGI:1889206]
Strip1	983.754822	1158.78156	-0.24	0.010827113	0.980354196	1.965487331	Strip1	striatin interacting protein 1 [Source:MGI Symbol;Acc:MGI:2443884]
Ubl3	1768.47818	2032.4704	-0.20	0.042584638	0.980354196	1.37074704	Ubl3	ubiquitin-like 3 [Source:MGI Symbol;Acc:MGI:1344373]
Asb2	2507.52285	2860.335	-0.19	0.046494199	0.980354196	1.332601233	Asb2	ankyrin repeat and SOCS box-containing 2 [Source:MGI Symbol;Acc:MGI:1929743]

* rows 4-455 = genes with increased expression in Mg2800; rows 457-1110 = genes with decreased expression in Mg2800 synovial tissues, compared with Mg500.