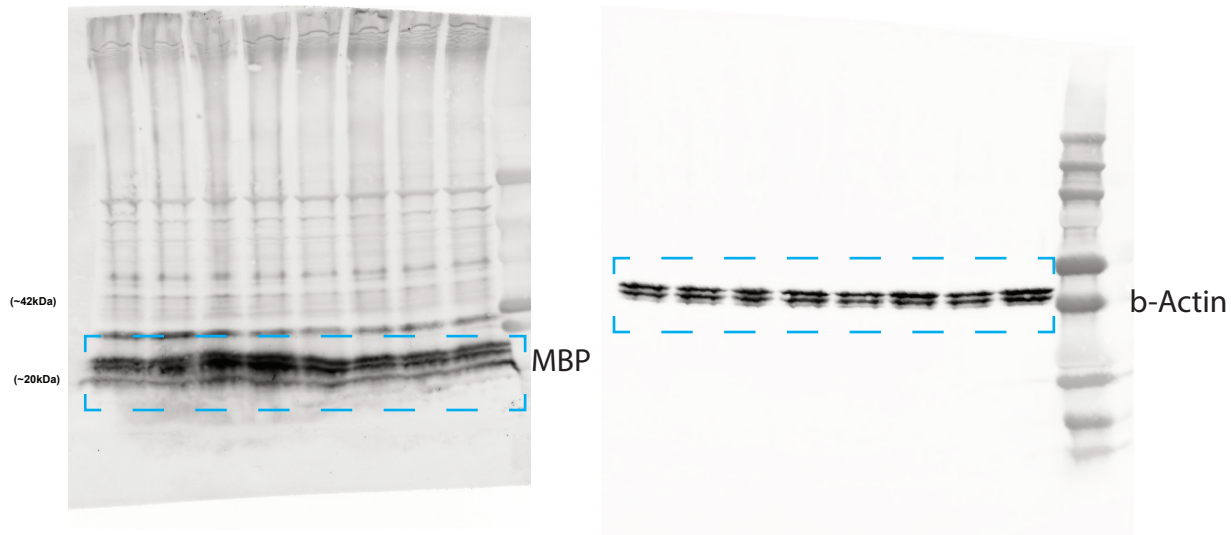
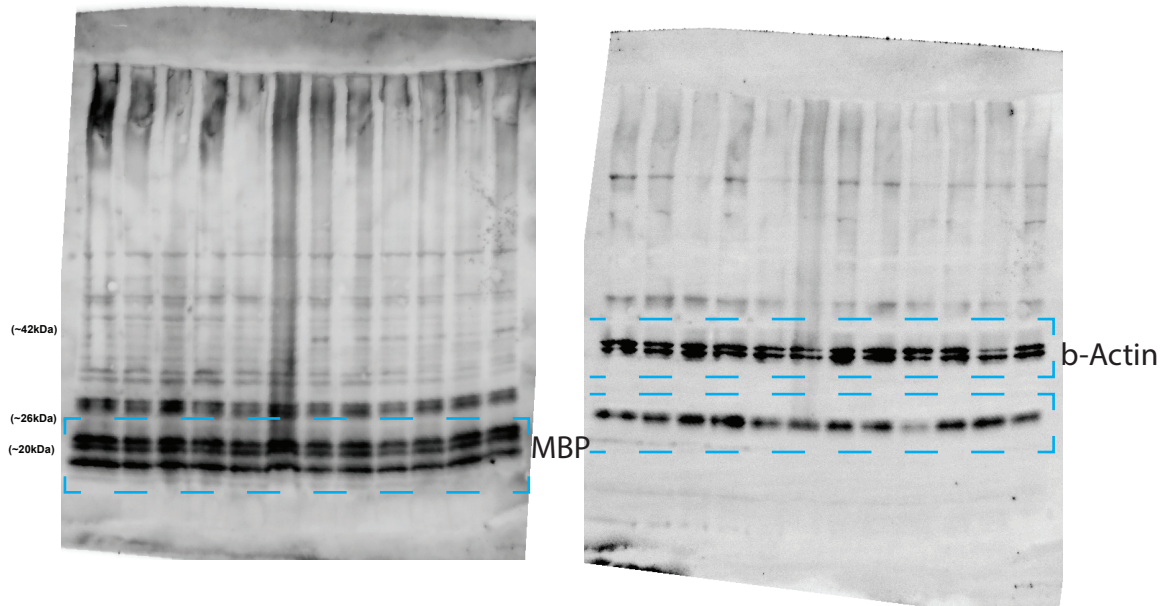


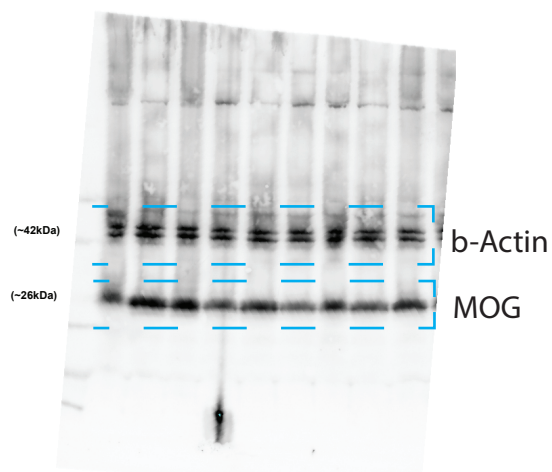
a



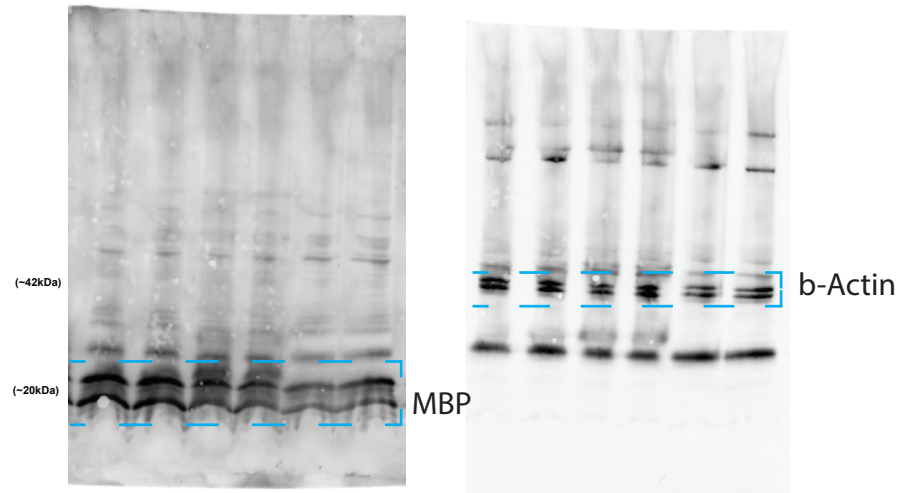
b



c



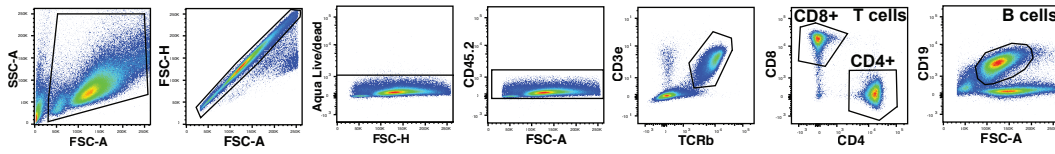
d



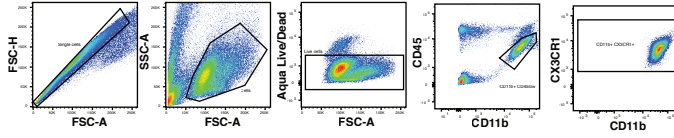
**Supplementary Data Figure 1. Raw scans of western blots in the paper.**

a, Blot scans corresponding to Extended Data Figure 6h. b, Blot scans corresponding to Extended Data Figure 6 b,c. c, Blot scans corresponding to Extended Data Figure 6j (left). d, Blot scans corresponding to Extended Data Figure 6j (right).

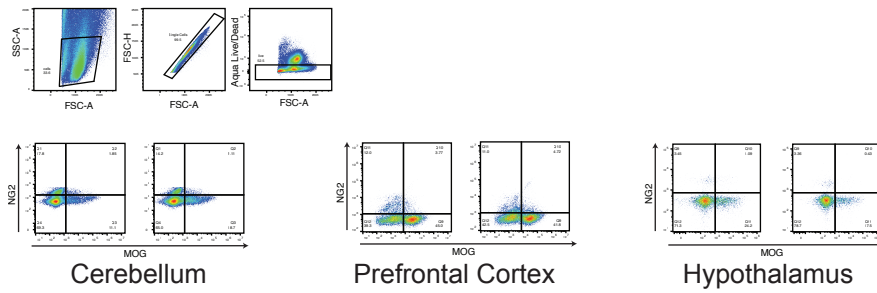
a



b



c



**Supplementary Data Figure 2. Glow cytometry gating strategies used in the paper.**  
 a, Gating for Figure 3g,h and Extended Data Figure 3c,d. b, Gating strategy for Extended Data Figure 3f. c, Gating strategy for Extended Data Figure 6a.

Supplementary Data Table1. Strains used in this study

Name	Strain	Specific Genotype	plasmid	source
	<i>B. ovatus</i> ATCC 8483 $\Delta tdk$			lab stock
	<i>Lactobacillus plantarum</i> BAA-793			ATCC
	<i>E. coli</i> S17-1 $\lambda$ pir			lab stock
MFA01	<i>B. ovatus</i> ATCC 8483 $\Delta tdk$	$\Delta BO\_01194$		this study
MFA02	<i>B. ovatus</i> ATCC 8483 $\Delta tdk$		pMFA01	this study
MFA03	<i>B. ovatus</i> ATCC 8483 $\Delta tdk$		pMFA02	this study
MFA04	<i>B. ovatus</i> ATCC 8483 $\Delta tdk$		pMFA01 and pMF03	this study
MFA05	<i>B. ovatus</i> ATCC 8483 $\Delta tdk$		pMFA04	this study

Supplementary Data Table 2. Plasmids used in this study

plasmids	back bone	promoter	introduced gene	source
pExchange_tdk_ΔBO_01194	pEchange_tdk		up and down stream of BACOVA_01194	this study
pMFA01	pNBU2_bla_ermGb	phage promoter	BACOVA_01194	this study
pMFA02	pNBU2_bla_ermGb	phage promoter	bsPAD	this study
pMFA03	pNBU2_bla_tetQb	phage promoter	bsPAD	this study
pMFA04	pNBU2_bla_tetQb	phage promoter	BACOVA_01194. bsPAD	this study

Supplementary Data Table 3. primers used in this study for generation of engineered bacterial strains

primer #	primer name	sequence (5'-3')	
Upstream of BACOVA_01194			
1	BO_01194_US_F	GCGGGATCCAAAGATGTTATTCACCTTACC	<i>Bam</i> HI
2	BO_01194_US_R	GCGGTCGACTTTCTGTACTAGATATTTTATG	<i>Sal</i> I
Downstream of BACOVA_01194			
3	BO_01194_DS_F	GCGGTCGACAATGAAATATGCATTAGTAACC	<i>Sal</i> I
4	BO_01194_DS_R	GCGCTGCAGACTGCGTTAATAACAGGAGC	<i>Pst</i> I
pNBU2 vector for gibson assembly			
5	pNBU2_F	TCTAGAACTAGTGGATCCCC	
6	pNBU2_R	GCGGCCGCCACCGCGG	
phage promoter BO_01194			
7	3'pNBU2_phageP_F	CCTCCACCGCGGTGGCGGCCGCGATAAAAACGAAAGGCTCAG	
8	phageP_5'BO_01194_R	GTCAGCTATCATCTACTTTGTTTCTTTTCGACAC	
9	3'phageP_BO_01194_F	GAAAGAAACAAAGTAGATGATAGCTGACAAAAGTATAA	
10	5'pNBU2_BO_01194_R	CGGGGGATCCACTAGTTCTAGATTATTTATCTTCTTTTTTGAG	
phage promoter bsPAD			
7	3'pNBU2_phageP_F	CCT CCA CCG CGG TGG CGG CCG CGA TAA AAC GAA AGG CTC AG	
11	phageP_5'bsPAD_R	ACTGTA CTTCATCTACTTTGTTTCTTTTCGACAC	
12	3'phageP_bsPAD_F	GAAACAAAGTAGATGAAGTACAGTAAAAGACTAAG	
13	5'pNBU2_bsPAD_R	CGGGGGATCCACTAGTTCTAGATTATAATCTTCCCCGCGG	
phage promoter BO_01194 phage promoter bsPAD			
7	3'pNBU2_phageP_F	CCTCCACCGCGGTGGCGGCCGCGATAAAAACGAAAGGCTCAG	
14	5'phageP_BO_01194_R	TCTCAAAAAAGAAGATAAATAAGATAAAAACGAAAGGCTCAG	
12	3'phageP_bsPAD_F	GAAACAAAGTAGATGAAGTACAGTAAAAGACTAAG	
13	5'pNBU2_bsPAD_R	CGGGGGATCCACTAGTTCTAGATTATAATCTTCCCCGCGG	

Supplementary Data Table 4. Region of Interest (ROI) Definitions corresponding to Fig. 2a-b, ED Fig. 4a-b

Bregma - 0.9 mm			Bregma - 1.6 mm			Bregma - 2 mm		
ROIs number	ROIs label	ROIs full name	ROIs number	ROIs label	ROIs full name	ROIs number	ROIs label	ROIs full name
1	L - S2	Left secondary somatosensory cortex	1	L - Pir	Left piriform cortex	1	L - AuV	Left secondary auditory cortex, ventral area
2	L - SIULp	Left primary somatosensory cortex, upper lip region	2	L - PRh	Left perirhinal cortex	2	L - AuD	Left secondary auditory cortex, dorsal area
3	L - SIBf	Left primary somatosensory cortex, barrel field	3	L - Et	Left entorhinal cortex	3	L - SI	Left primary somatosensory cortex
4	L - S1Sh	Left primary somatosensory cortex, shoulder region	4	L - S2	Left secondary somatosensory cortex	4	L - SIBf	Left primary somatosensory cortex, barrel field
5	L - SIHL	Left primary somatosensory cortex, hindlimb region	5	L - SIULp	Left primary somatosensory cortex, upper lip region	5	L - Pt	Left parietal cortex, posterior area
6	L - MI-M2	Left primary and secondary motor cortex	6	L - S1BF	Left primary somatosensory cortex, barrel field	6	L - LPTa	Left lateral parietal association cortex
7	L - RSD	Left retrosplenial dysgranular cortex	7	L - S1Tr	Left primary somatosensory cortex, trunk region	7	L - MPA	Left medial parietal association cortex
8	L - RSG	Left retrosplenial granular cortex	8	L - PTA	Left parietal association cortex	8	L - RSD	Left retrosplenial dysgranular cortex
9	L - CA	Left hippocampus	9	L - RS	Left retrosplenial cortex	9	L - RSG	Left retrosplenial granular cortex
10	L - LV	Left lateral ventricle	10	R - RS	Right retrosplenial cortex	10	L - CA	Left hippocampus
11	L - Cpu	Left caudate putamen (striatum)	11	R - PTA	Right parietal association cortex	11	L - fi - ic	Left fimbria of the hippocampus and internal capsule
12	L - Ri	Left reticular nucleus	12	R - S1Tr	Right primary somatosensory cortex, trunk region	12	L - DLG	Left dorsal lateral geniculate nucleus
13	L - LD	Left laterodorsal and anteroventral thalamic nucleus	13	R - S1BF	Right primary somatosensory cortex, barrel field	13	L - LP	Left lateral posterior thalamic nucleus
14	L - VL	Left ventrolateral thalamic nucleus	14	R - SIULp	Right primary somatosensory cortex, upper lip region	14	L - Hb	Left habenular nucleus
15	L - AM	Left anteromedial thalamic nucleus	15	R - S2	Right secondary somatosensory cortex	15	L - VP	Left ventral thalamic nucleus
16	R - AM	Right anteromedial thalamic nucleus	16	R - Et	Right entorhinal cortex	16	L - MDD	Left mediodorsal thalamic nucleus
17	R - VL	Right ventrolateral thalamic nucleus	17	R - PRh	Right perirhinal cortex	17	R - MDD	Right mediodorsal thalamic nucleus
18	R - LD	Right laterodorsal and anteroventral thalamic nucleus	18	R - Pir	Right piriform cortex	18	R - VP	Right ventral thalamic nucleus
19	R - Ri	Right reticular nucleus	19	L - cc	Left corpus callosum	19	R - Hb	Right habenular nucleus
20	R - Cpu	Right caudate putamen (striatum)	20	R - cc	Right corpus callosum	20	R - LP	Right lateral posterior thalamic nucleus
21	R - LV	Right lateral ventricle	21	L - CA	Left hippocampus	21	R - DLG	Right dorsal lateral geniculate nucleus
22	R - CA	Right hippocampus	22	R - CA	Right hippocampus	22	R - fi - ic	Right fimbria of the hippocampus and internal capsule
23	R - RSD	Right retrosplenial granular cortex	23	L - Hb	Left habenular nucleus	23	R - CA	Right hippocampus
24	R - RSG	Right retrosplenial dysgranular cortex	24	R - Hb	Right habenular nucleus	24	R - RSG	Right retrosplenial granular cortex
25	R - MI-M2	Right primary and secondary motor cortex	25	L - LD	Left laterodorsal thalamic nucleus	25	R - RSD	Right retrosplenial dysgranular cortex
26	R - SIHL	Right primary somatosensory cortex, hindlimb region	26	R - LD	Right laterodorsal thalamic nucleus	26	R - MPA	Right medial parietal association cortex
27	R - S1Sh	Right primary somatosensory cortex, shoulder region	27	L - Cpu	Left caudate putamen (striatum)	27	R - LPTa	Right lateral parietal association cortex
28	R - SIBf	Right primary somatosensory cortex, barrel field	28	L - ic	Left internal capsule	28	R - Pt	Right parietal cortex, posterior area
29	R - SIULp	Right primary somatosensory cortex, upper lip region	29	L - VL	Left ventral thalamic nucleus	29	R - S1BF	Right primary somatosensory cortex, barrel field
30	R - S2	Right secondary somatosensory cortex	30	L - Me	Left medial amygdaloid nucleus	30	R - SI	Right primary somatosensory cortex
31	L - Pir	Left piriform cortex	31	L - VM	Left ventromedial thalamic nucleus	31	R - AuD	Right secondary auditory cortex, dorsal area
32	R - Pir	Right piriform cortex	32	L - MD	Left mediodorsal thalamic nucleus	32	R - AuV	Right secondary auditory cortex, ventral area
33	L - AIP	Left agranular insular cortex, posterior part	33	R - Cpu	Right caudate putamen (striatum)	33	L - Pir	Left piriform cortex
34	R - AIP	Right agranular insular cortex, posterior part	34	R - ic	Right internal capsule	34	R - Pir	Right piriform cortex
35	L - GI	Left gigantocellular reticular nucleus	35	R - VL	Right ventral thalamic nucleus	35	L - Ent	Left entorhinal cortex
36	R - GI	Right gigantocellular reticular nucleus	36	R - Me	Right medial amygdaloid nucleus	36	R - Ent	Right entorhinal cortex
37	L - ic-GP	Left internal capsule and globus pallidus	37	R - VM	Right ventromedial thalamic nucleus	37	L - Cpu	Left caudate putamen (striatum)
38	R - ic-GP	Right internal capsule and globus pallidus	38	R - MD	Right mediodorsal thalamic nucleus	38	R - Cpu	Right caudate putamen (striatum)
39	L - Ce	Left central amygdaloid nucleus	39	L - DM	Left dorsomedial hypothalamic nucleus	39	L - BL	Left basolateral amygdaloid nucleus
40	R - Ce	Right central amygdaloid nucleus	40	L - VMHC	Left ventromedial hypothalamic nucleus	40	R - BL	Right basolateral amygdaloid nucleus
41	L - AA	Left anterior amygdaloid area	41	R - DM	Right dorsomedial hypothalamic nucleus	41	L - Co	Left cortical amygdaloid area
42	R - AA	Right anterior amygdaloid area	42	R - VMH	Right ventromedial hypothalamic nucleus	42	R - Co	Right cortical amygdaloid area
43	L - PLH	Left peduncular part of lateral hypothalamus				43	L - STh	Left subthalamic nucleus
44	R - PLH	Right peduncular part of lateral hypothalamus				44	R - STh	Right subthalamic nucleus
45	L - AH	Left anterior hypothalamic area,				45	L - VM	Left ventromedial thalamic nucleus
46	R - AH	Right anterior hypothalamic area,				46	R - VM	Right ventromedial thalamic nucleus
47	L - RCh	Left - retrochiasmatic area				47	L - PH	Left posterior hypothalamic nucleus
48	R - RCh	Right - retrochiasmatic area				48	R - PH	Right posterior hypothalamic nucleus
49	L - Pa	Left - hypothalamic nucleus				49	L - VMH	Left ventromedial hypothalamic nucleus
50	R - Pa	Right - hypothalamic nucleus				50	R - VMH	Right ventromedial hypothalamic nucleus
						51	L - PLH	Left - lateral hypothalamus
						52	R - PLH	Right - lateral hypothalamus

Supplementary Data Table 5. Primers used in this study for qPCR

primer name	sequence (5'-3')
<i>Sult1A1</i>	
sult1a1for	CCCGGATACCTTCCTTGAG
sult1a1rev	CCATAGGACACTTTCCCATCCA
<i>B-actin</i>	
bactinfor	AGAGGGAAATCGTGCGTGAC
bactinrev	CAATAGTGATGACCTGGCCGT
<i>Mog</i>	
mogfor	CGGACAGAGCTGCTGAAAGA
mogrev	TGCTCGAAGTTTTCTCTCAGT
<i>Mbp</i>	
mbpfor	CGGACAGAGCTGCTGAAAGA
mbprev	TGCTCGAAGTTTTCTCTCAGT
<i>Cspg4</i>	
cspg4for	CCTTCACTGTCACTGTCCTGC
cspg4rev	CAGGGTTCCTCTGTGTGAGAACA
<i>Cd11b</i>	
cd11bfor	AAGCTCTTCTGGTCACAGCC
cd11brev	GCAACAACCACACTGGTTCC
<i>Tmem119</i>	
tmem119for	TCACCCAGAGCTGGTTCCAT
tmem119rev	GTGACACAGAGTAGGCCACC
<i>Csf11r</i>	
tmem119for	GGTTGTAGAGCCGGGTGAAA
tmem119rev	AAGAGTGGGCCGGATCTTTG
<i>Sfpil</i>	
sfpilfor	CCCAAGGGGACTATCTCCA
sfpilrev	TGTCGAGCCTGAGAGGGG
<i>Mafb</i>	
mafbfor	TTGGCTAAGAAGAGGGCAGC
mafbrev	TTCCTTAGCTCAGCCTTGCC
<i>Cd14</i>	
cd14for	ACTGAAGCCTTTCTCGGAGC
cd14rev	AAGCACACGCTCCATGGTC
<i>Il10</i>	
il10for	CAGAGAAGCATGGCCCAGAA
il10rev	GACACCTTGGTCTTGGAGCTTA
<i>Tgfb</i>	
tgfbfor	GCTGAACCAAGGAGACGGAA
tgfbrev	ATGTCATGGATGGTGCCAG
<i>Tnfa</i>	
tnfafor	CCCTCACACTCAGATCATCTTCT
tnfarev	GCTACGACGTGGGCTACAG
<i>Cd68</i>	
cd68for	TTACCTTTGGATTCAAACAGGACC
cd68rev	GAGGCAGCAAGAGGGACTG

## Supplementary QuantSeq Data of the PVT. Corresponding to Fig. 3c.

Ensembl ID	diff	lwr	upr	p.adj	external_gene
ENSMUSG00000062393.13	-9.1902232	-10.969512	-7.410934	4.12E-08	Dgkk
ENSMUSG0000007590.2	1.63400261	0.93075942	2.3372458	0.00011493	Nrbp2
ENSMUSG00000021258.9	1.3799642	0.69122751	2.0687009	0.0004224	Ccnk
ENSMUSG00000102990.1	-7.14378	-9.12013	-5.1674301	1.63E-06	Gm37764
ENSMUSG00000034839.5	0.98142587	0.05294042	1.90991132	0.03755739	Larp6
ENSMUSG00000098905.1	-9.1702681	-11.220953	-7.119583	1.82E-07	Zfp953
ENSMUSG00000010538.14	-7.3013634	-9.2859287	-5.3167981	1.36E-06	Tsacc
ENSMUSG00000028082.13	-1.9440313	-2.8989155	-0.9891471	0.00036849	Sh3d19
ENSMUSG00000038121.6	-0.863599	-1.605057	-0.1221409	0.02182864	Fam210a
ENSMUSG00000037376.14	-1.5261407	-2.2828448	-0.7694366	0.00039938	Trmt6
ENSMUSG00000021520.4	2.6000043	1.49194416	3.70806443	0.00010515	Uqcrc
ENSMUSG00000024413.13	2.06122033	1.18228419	2.94015648	0.00010569	Npct1
ENSMUSG00000031701.6	-1.1808137	-1.7091713	-0.6524561	0.00016297	Dnaja2
ENSMUSG00000106691.1	-6.1956007	-8.5643589	-3.8268426	3.86E-05	2700029L08F
ENSMUSG00000108194.1	-8.0423081	-10.346274	-5.738342	2.32E-06	1700097M23
ENSMUSG00000035011.15	-0.3037901	-0.5751115	-0.0324687	0.02739306	Zbtb7a
ENSMUSG00000056708.5	1.40608956	0.56247357	2.24970555	0.00188881	Ier5
ENSMUSG00000105270.1	-6.907755	-9.3523359	-4.463174	1.85E-05	Gm42863
ENSMUSG00000025959.13	1.08621855	0.24506883	1.92736827	0.01156818	Klf7
ENSMUSG00000019689.4	2.43579701	1.2954561	3.57613791	0.00024304	Fmc1
ENSMUSG00000097479.1	-0.904214	-1.4501729	-0.3582552	0.00198365	Gm26582
ENSMUSG00000019777.16	-0.9701305	-1.6953137	-0.2449474	0.00918467	Hdac2
ENSMUSG00000024735.13	-0.51007	-0.7849737	-0.2351664	0.00080311	Prpf19
ENSMUSG00000026109.14	-2.3771148	-3.3916768	-1.3625528	0.00010657	Tmeff2
ENSMUSG00000064247.14	-1.6550233	-2.6500542	-0.6599924	0.00191932	Plcxd1
ENSMUSG00000074909.4	-0.8997635	-1.7578112	-0.0417158	0.03917823	Ranbp6
ENSMUSG00000021065.15	-7.0165049	-9.5137284	-4.5192813	1.95E-05	Fut8
ENSMUSG00000078591.1	-2.0040411	-3.0832651	-0.9248171	0.00079788	Hs3st4
ENSMUSG00000106702.1	2.43002927	1.22086407	3.63919447	0.00041167	Gm42846
ENSMUSG00000032251.12	-1.5842992	-2.5476405	-0.620958	0.00209383	Irak1bp1
ENSMUSG00000038740.9	2.05266381	0.88453883	3.22078879	0.00124703	Mvbi2b
ENSMUSG00000031703.8	-1.1726677	-2.1194498	-0.2258857	0.01506018	Irf1
ENSMUSG00000021087.17	-0.2898531	-0.5629019	-0.0168042	0.03671203	Rtn1
ENSMUSG00000082127.2	0.87639733	0.08573507	1.66705959	0.02898888	Gm13577
ENSMUSG00000109362.1	-6.8194269	-9.3129317	-4.3259221	2.53E-05	Gm44562
ENSMUSG00000038000.10	1.63245385	0.59421235	2.67069535	0.00294131	Acad
ENSMUSG00000027133.3	1.18736361	0.29544802	2.0792792	0.00948643	Nop10
ENSMUSG00000069495.12	-1.6866894	-2.7384864	-0.6348925	0.00253692	Epc2
ENSMUSG00000018770.9	1.5545885	0.47381237	2.63536463	0.00560088	Atpsg3
ENSMUSG00000073684.13	1.27406792	0.26526882	2.28286702	0.01333017	Faap20
ENSMUSG00000047843.16	0.76378327	0.16498747	1.36257908	0.01251814	Bri3
ENSMUSG00000020664.9	-1.2781038	-2.2816511	-0.2745565	0.01264041	Dld
ENSMUSG00000058318.15	0.62109581	0.10055817	1.14163346	0.01891645	Phf21a
ENSMUSG00000021413.8	-0.4770054	-0.8081903	-0.1458205	0.00554929	Prpf4b
ENSMUSG00000043284.12	1.22733013	0.19272356	2.26193671	0.01958496	Tmem11
ENSMUSG00000024603.7	-0.7234576	-1.2321612	-0.214754	0.00606288	Dctn4
ENSMUSG00000101671.1	1.32054426	0.38873335	2.25235517	0.00621228	Gm28221
ENSMUSG00000056050.12	-1.1198894	-2.0896536	-0.1501252	0.02294762	Mia3
ENSMUSG00000105361.1	0.20033087	0.05117675	0.34948499	0.00894494	AY036118
ENSMUSG00000024780.6	2.22488998	0.90934307	3.54043689	0.00168654	Cdc371
ENSMUSG00000029088.16	-1.5232445	-2.4054615	-0.6410274	0.00143363	Kcnp4
ENSMUSG00000030967.14	-1.3976763	-2.5082354	-0.2871173	0.01362822	Zranb1
ENSMUSG00000070498.3	-2.7311564	-4.9843828	-0.4779299	0.01719976	Tmem132b
ENSMUSG00000079614.3	-3.0097908	-5.0245886	-0.994993	0.00428091	Seh1l
ENSMUSG00000022000.10	-1.116854	-2.1956185	-0.0380896	0.04188803	Zc3h13
ENSMUSG00000057315.14	-2.322423	-4.5886033	-0.0558812	0.04418888	Arhgap24
ENSMUSG00000027677.17	-1.2646546	-2.3737337	-0.1555756	0.02469087	Tctc14
ENSMUSG00000047921.15	-1.4458658	-2.5321797	-0.359552	0.00949903	Trappc9
ENSMUSG00000078440.9	0.47371824	0.06727746	0.88015902	0.02174114	Dohh
ENSMUSG00000033938.5	-0.5515067	-1.0076518	-0.0953615	0.0174653	Ndufb7
ENSMUSG00000022437.6	-0.7641956	-1.1270779	-0.4013133	0.00027512	Samms50
ENSMUSG00000022808.4	-1.6361222	-2.8998004	-0.3724441	0.01137493	Smx4
ENSMUSG00000026782.15	-0.8825214	-1.3201427	-0.4463601	0.00039127	Abi2
ENSMUSG00000097224.1	1.24201419	0.12466279	2.35936558	0.02853438	Gm26716
ENSMUSG00000029674.13	-1.1670034	-2.103195	-0.2308118	0.01447128	Limk1
ENSMUSG00000072692.7	0.65889452	0.11915684	1.19863219	0.01646793	Rpl37rt
ENSMUSG00000062203.14	-1.5759524	-2.7055333	-0.4463715	0.00692007	Gspt1
ENSMUSG00000027080.6	-1.884819	-3.1141276	-0.6555105	0.00354312	Medi19
ENSMUSG00000039917.10	-0.5151421	-0.9157019	-0.1145823	0.01187764	Rhbdd2
ENSMUSG00000058558.12	1.27059155	0.03619038	2.50499272	0.04316712	Rpl5
ENSMUSG00000019659.8	1.59066768	0.45833873	2.72299662	0.00660137	Ccdc12
ENSMUSG0000008301.11	1.15231423	0.64810716	1.65652131	0.00013342	Phax
ENSMUSG00000013089.15	-1.1715616	-2.1990353	-0.1440878	0.02469579	Etv5
ENSMUSG00000054568.7	-1.7139258	-3.123607	-0.3042445	0.01688174	Usp17a
ENSMUSG00000103849.1	-5.8115998	-8.6608619	-2.9623376	0.00036263	Gm37806
ENSMUSG00000079557.10	-2.2386144	-3.3716934	-1.1055354	0.00047585	2-Mar
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ENSMUSG000000038806.7	-1.7305223	-3.035619	-0.4274828	0.0096375	Sde2
ENSMUSG000000027363.15	-1.6011218	-3.005833	-0.1964106	0.02474715	Usp8
ENSMUSG000000032870.8	-1.8822882	-3.2396635	-0.5249129	0.00721358	Smad2
ENSMUSG000000021650.6	-1.6271989	-2.9843931	-0.2700048	0.01837623	Ptcd2
ENSMUSG000000060098.11	-2.5012141	-4.2526506	-0.7497776	0.00588967	Prrmt7
ENSMUSG000000022295.7	-1.8586386	-3.4496184	-0.2676588	0.02144679	Atp6v1c1
ENSMUSG000000038668.14	-0.7162402	-1.427642	-0.0048385	0.04832644	Lpar1
ENSMUSG000000011751.16	-2.0577809	-3.6252992	-0.4902626	0.01039846	Sptbn4
ENSMUSG00000105753.1	-1.6776056	-3.1178312	-0.03738	0.04460478	Gm43847
ENSMUSG000000032537.14	-1.9190167	-3.6708977	-0.1671358	0.03095647	Ephb1
ENSMUSG000000053293.9	-7.5096316	-11.6129	-3.4063629	0.0008985	Pom121
ENSMUSG000000052676.16	-2.1006826	-3.5672569	-0.6341083	0.0057679	Zmat1
ENSMUSG000000025439.5	-1.4309814	-2.7073792	-0.1545836	0.02719486	Clns1a
ENSMUSG000000038451.13	-2.2418433	-3.9387981	-0.5448884	0.00997666	Spsb2
ENSMUSG000000067870.5	-4.7136065	-8.3405568	-1.0866561	0.01110199	Rpl31-ps8
ENSMUSG000000037710.8	-1.7182502	-3.3344526	-0.1020478	0.03641805	Cisd1
ENSMUSG000000054237.5	-2.2631886	-4.230084	-0.2962933	0.02343433	Fra10ac1
ENSMUSG000000086841.1	1.85496689	0.1005465	3.60938728	0.03750219	2410006H16I
ENSMUSG000000037032.16	-0.6097075	-1.1875832	-0.0318318	0.03792452	Apbb1
ENSMUSG000000097312.1	-3.5383994	-7.0164763	-0.0603225	0.04583983	Gm26870
ENSMUSG00000026617.16	-1.6733332	-3.3403835	-0.0662828	0.04906577	Bpnt1
ENSMUSG000000030647.8	1.47238074	0.02156493	2.92319656	0.04641321	Ndufc2
ENSMUSG000000038365.8	-2.7585244	-4.5867035	-0.9303452	0.00398174	Fbxo25
ENSMUSG000000047989.11	0.63610971	0.18793767	1.08428174	0.00614694	Ino80c
ENSMUSG00000026238.14	-0.5595081	-1.113461	-0.0055551	0.04755165	Ptma
ENSMUSG000000036782.13	0.90267798	0.30356004	1.50179592	0.00402434	Klhl13
ENSMUSG00000024962.13	-1.5822375	-2.8949336	-0.2695413	0.01779531	Vegfb
ENSMUSG00000006024.13	-1.4959827	-2.8990401	-0.0929254	0.03585603	Napa
ENSMUSG000000041645.13	-0.3683744	-0.6811209	-0.0556279	0.02043143	Ddx24
ENSMUSG000000032393.14	-2.1720261	-3.7207035	-0.6233487	0.0066753	Dpp8
ENSMUSG000000068747.14	-1.8142767	-3.3705844	-0.2579689	0.02171611	Sort1
ENSMUSG000000034958.11	-0.9427228	-1.6615199	-0.2239257	0.01046251	Atcay
ENSMUSG000000049252.17	-2.1138315	-3.9173672	-0.3102958	0.02103893	Lrp1b
ENSMUSG000000030811.14	-0.9463577	-1.8205129	-0.0722024	0.03301967	Fbxl19
ENSMUSG000000082519.1	-7.3613892	-11.21432	-3.5084584	0.00063041	Vamp7-ps
ENSMUSG000000097730.3	-4.1302483	-7.6207484	-0.6397483	0.01988228	Gm26588
ENSMUSG000000027835.11	-1.5415382	-2.9572622	-0.1258142	0.03199265	Ptcd10
ENSMUSG000000051166.9	-1.7541433	-3.3001573	-0.2081293	0.02540422	Emi5
ENSMUSG000000031667.16	-2.0003095	-3.5735607	-0.4270583	0.01277604	Aktip

ENSMUSG00000069892.9	-5.8768039	-9.2576192	-2.4959885	0.00135925	993011121F
ENSMUSG00000062098.11	-0.4228672	-0.8336113	-0.0121231	0.04312452	Btb3
ENSMUSG00000024942.16	-1.8210011	-3.1822633	-0.4597389	0.00918664	Capn1
ENSMUSG00000032101.6	-2.0967153	-3.8253879	-0.3680426	0.01713117	Ddx25
ENSMUSG00000038909.16	-1.603991	-3.1611058	-0.0468762	0.04299705	Kat7
ENSMUSG00000037916.13	-1.6521767	-3.2557053	-0.0486482	0.04294664	Ndufv1
ENSMUSG00000020098.6	-7.5177276	-11.258975	-3.7764804	0.00041212	Pcbd1
ENSMUSG00000024431.14	-1.6746299	-3.0129451	-0.3363147	0.01413086	Nr3c1
ENSMUSG00000028741.13	-1.8258448	-3.4628431	-0.1888466	0.02799425	Mrt6a
ENSMUSG00000027665.13	-1.1708274	-1.9850777	-0.3565771	0.00561398	Pik3ca
ENSMUSG00000040479.11	0.64485344	0.05021009	1.23949678	0.03271495	Dgkz
ENSMUSG00000020721.16	-1.6448186	-3.2572808	-0.0323565	0.04521821	Helz
ENSMUSG00000093445.7	-6.7188738	-10.575473	-2.8622749	0.00133534	Lrhd4
ENSMUSG00000034488.14	-0.879959	-1.5758146	-0.1841034	0.01322287	Edil3
ENSMUSG00000029557.7	-1.6886199	-3.3565306	-0.0207093	0.04698607	Mrm2
ENSMUSG00000038527.9	-6.9409126	-10.820182	-3.061643	0.00107914	C1rl
ENSMUSG00000029344.14	-6.1649492	-10.266493	-2.0634056	0.0040946	Tpst2
ENSMUSG00000025545.9	-2.1563952	-4.1402519	-0.1725386	0.0323	Cybl
ENSMUSG00000027957.13	-7.5949395	-11.445405	-3.7444735	0.00048246	Slc35a3
ENSMUSG00000032297.11	-1.8093874	-3.4282478	-0.190527	0.02766733	Celf6
ENSMUSG00000039419.17	-1.7811527	-3.2721802	-0.2901252	0.0187838	Cntnap2
ENSMUSG00000024474.5	-1.7515275	-3.3156867	-0.1873683	0.02737651	Ik
ENSMUSG00000032609.12	-2.5304299	-4.4168264	-0.6440333	0.00902073	Klhdcb8
ENSMUSG00000105679.1	-5.7047639	-9.6045486	-1.8049792	0.00497335	Gm43338
ENSMUSG00000027782.10	-2.3365159	-4.1601665	-0.5128654	0.01216707	Kpna4
ENSMUSG00000057176.4	-1.6290466	-3.2277511	-0.030342	0.04546546	Ccdc189
ENSMUSG00000021103.12	-1.4515934	-2.8335557	-0.069631	0.03883138	Mnat1
ENSMUSG00000024516.12	-0.7962352	-1.3817084	-0.210762	0.008229	Sec11c
ENSMUSG00000102935.1	4.1819784	0.28219498	8.08176181	0.03476625	Gm38355
ENSMUSG00000040249.15	-1.9744225	-3.6543664	-0.2944787	0.02069831	Lrp1
ENSMUSG00000039740.6	-2.5387284	-4.3457896	-0.7316672	0.00659755	Alg2
ENSMUSG00000052296.7	-1.6443228	-3.1667964	-0.1218493	0.03344869	Ppp6r1
ENSMUSG00000034175.13	-2.2580421	-4.0229238	-0.4931603	0.01227269	Rhbdd3
ENSMUSG00000021248.8	-1.7233918	-3.4133279	-0.0334557	0.04527935	Tmed10
ENSMUSG00000031683.16	0.58060595	0.1859705	0.9752414	0.00477481	Lsm6
ENSMUSG00000030255.13	-1.7018539	-3.2109963	-0.1927115	0.02630683	Sspn
ENSMUSG00000039041.15	-1.6559177	-3.1547806	-0.1570548	0.02952737	Adrm1
ENSMUSG00000021460.16	-2.7706823	-4.7469728	-0.7943919	0.0066931	Auh
ENSMUSG00000106411.1	-2.6427961	-4.7052745	-0.5803176	0.01215863	Gm42445
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ENSMUSG00000041354.15	-4.5687234	-8.14481	-0.9926369	0.01239101	Rgl2
ENSMUSG00000063687.3	-6.2920662	-10.351585	-2.2325469	0.00327134	Pcdh5
ENSMUSG00000024067.13	-7.9336369	-12.137191	-3.7300825	0.0006978	Dpy30
ENSMUSG0000001020.8	-5.0815115	-9.5486028	-0.6144203	0.02503303	S100a4
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ENSMUSG00000021938.11	-2.7679252	-4.4896743	-1.0461762	0.00248964	Pspc1
ENSMUSG00000034390.16	-1.5599854	-3.0950192	-0.0249516	0.04609077	Cmpj
ENSMUSG00000042671.12	-1.9514432	-3.7982531	-0.1046333	0.0376258	Rgs8
ENSMUSG00000026463.17	-2.2985002	-4.0739127	-0.5230876	0.01138068	Atp2b4
ENSMUSG00000079442.12	-1.8928099	-3.492575	-0.2930447	0.01989257	Stg6lnac4
ENSMUSG00000053550.13	-2.1248636	-4.0156587	-0.2340684	0.02682939	Shisa7
ENSMUSG00000046056.15	-1.7250094	-3.2924649	-0.1575539	0.03016919	Sbsn
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ENSMUSG00000026977.17	-1.769219	-3.337266	-0.2047113	0.02589233	7-Mar
ENSMUSG00000033439.12	-5.3845148	-10.176354	-0.5926755	0.02684417	Trmt13
ENSMUSG00000038608.15	-1.6528601	-3.1944904	-0.1112298	0.03480319	Dock10
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ENSMUSG00000058741.5	-1.8493052	-3.4283473	-0.270263	0.02113366	Rpl32
ENSMUSG00000041629.9	-1.6835541	-3.1842901	-0.182818	0.02707776	Fam104a
ENSMUSG00000030452.15	-2.0953259	-3.9650241	-0.2256277	0.02725432	Bicd1
ENSMUSG00000051616.14	-7.6209853	-11.682269	-3.5597015	0.00073191	C230029F24f
ENSMUSG00000022756.15	-2.2302732	-4.216171	-0.2443754	0.02692941	Slc7a4
ENSMUSG00000021242.8	-0.5401222	-1.0755795	-0.004665	0.04786615	Npc2
ENSMUSG00000108189.1	-5.5699009	-10.445107	-0.694695	0.02441607	Gm43887
ENSMUSG00000039671.18	-0.8699603	-1.7240048	-0.0159157	0.04554382	Zmynd8
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ENSMUSG00000075316.11	-1.802836	-3.3644609	-0.2412111	0.02298746	Scn9a
ENSMUSG0000002983.17	-4.8652215	-9.6071558	-0.1232871	0.04389219	Relb
ENSMUSG00000066697.3	-4.7743226	-8.6355851	-0.9130602	0.01522076	Gm10172
ENSMUSG00000025393.12	-0.5451124	-1.0355854	-0.0546394	0.02855861	Atp5b
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ENSMUSG0000002496.9	-1.8583119	-3.4936935	-0.2229303	0.02518827	Tsc2
ENSMUSG00000028165.9	-2.8737696	-4.9970053	-0.7505339	0.00849755	Cisd2
ENSMUSG00000027285.13	-1.8388657	-3.4785472	-0.1991842	0.02714445	Haus2
ENSMUSG0000004360.8	-1.985609	-3.6402001	-0.331018	0.01827334	9330159F19f
ENSMUSG00000024208.15	-1.5103796	-2.795513	-0.2252461	0.02070042	Uqcq2
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ENSMUSG00000048218.5	-1.7238389	-3.4371169	-0.010561	0.04848085	Amigo2
ENSMUSG00000092416.2	-6.3586943	-11.539033	-1.1783559	0.01592351	Zfp141
ENSMUSG00000024713.15	-2.1649101	-3.8780277	-0.4517924	0.01327893	Pcsk5
ENSMUSG00000034681.16	-1.7499985	-3.2741698	-0.2258273	0.02372853	Rnps1
ENSMUSG00000068290.11	-1.8585729	-3.6348836	-0.0822623	0.03963513	Ddrgk1
ENSMUSG0000002320.15	-4.8420106	-8.3756858	-1.3083355	0.0078227	Tm9sf1
ENSMUSG00000023723.17	-1.604115	-3.18058	-0.0276499	0.04579491	Mrps23
ENSMUSG00000048807.2	-1.6289026	-3.0341452	-0.22366	0.02244965	Slc35e4
ENSMUSG00000030809.14	-5.4681587	-9.7411111	-1.1952063	0.01225946	Gcdh
ENSMUSG0000002015.5	-1.9485655	-3.4768367	-0.4202943	0.01255064	Bcap31
ENSMUSG00000034755.18	-4.4962477	-7.7477802	-1.2447152	0.0073534	Pcdh11x
ENSMUSG00000022108.7	-0.8853059	-1.429838	-0.3407739	0.00228591	Iitm2b
ENSMUSG00000086604.2	-5.5373909	-9.7798216	-1.2949601	0.01079494	Gm15510
ENSMUSG00000054942.13	-1.5750041	-3.1087916	-0.0412166	0.04370029	Miga1
ENSMUSG00000067194.6	-1.9313731	-3.537483	-0.3252633	0.01804913	Efl1ax
ENSMUSG00000020300.14	-2.4413132	-4.1246605	-0.7579659	0.00528636	Cpeb4
ENSMUSG00000038486.9	-0.3496421	-0.6781839	-0.0211002	0.03622005	Sv2a
ENSMUSG00000035596.14	-0.7800558	-1.3344089	-0.2257027	0.0065251	Mbeat7
ENSMUSG00000038390.11	-0.9648736	-1.6532439	-0.2765034	0.00670239	Gpr162
ENSMUSG00000043866.11	0.60430696	0.06972855	1.13888537	0.02594596	Taf10
ENSMUSG00000026841.7	-2.2205759	-3.9425881	-0.4985637	0.01167397	Fibcd1
ENSMUSG00000055026.13	-2.4705795	-4.3139166	-0.6272425	0.00907152	Gabrg3
ENSMUSG00000106948.1	-6.1164593	-10.481236	-1.751682	0.0067141	Gm42785
ENSMUSG0000007944.8	-2.0140191	-3.618937	-0.4091011	0.01387797	Ttcb9
ENSMUSG00000022962.14	-5.6889202	-9.5907383	-1.7871021	0.00509113	Gart
ENSMUSG00000028329.13	-1.5267622	-2.9445451	-0.1089793	0.0398659	Xpa

ENSMUSG00000038122.8	-4.2499685	-7.559198	-0.9407389	0.01198347	TbclD32
ENSMUSG00000031201.17	-1.8152876	-3.3832648	-0.2473104	0.02261255	BrcC3
ENSMUSG00000085830.1	-1.7478938	-3.24285	-0.2529375	0.0213435	Grin1os
ENSMUSG00000030701.17	-1.9392236	-3.3996111	-0.4788361	0.00964625	Plekhh1
ENSMUSG00000028937.14	-0.5494176	-1.066783	-0.0320522	0.03663636	Acot7
ENSMUSG00000030619.9	-4.2067998	-7.5450695	-0.86853	0.01351689	Eed
ENSMUSG00000020496.8	-0.3623812	-0.7215863	-0.003176	0.04783511	Rnf187
ENSMUSG00000072572.8	-3.9019523	-6.2874075	-1.5164972	0.00218227	Slc39a2
ENSMUSG0000000131.15	-1.5784237	-3.0240602	-0.1327872	0.03151516	Xpo6
ENSMUSG00000041592.16	-3.8251912	-7.3967923	-0.2535901	0.0350051	Sdk2
ENSMUSG00000019809.16	-6.2538444	-10.640332	-1.8673569	0.0059587	Pex3
ENSMUSG00000001228.14	-4.8332986	-9.2390649	-0.4275323	0.03070237	Uhrf1
ENSMUSG00000019978.15	-2.6998521	-4.7984133	-0.6012908	0.01184984	Epb412
ENSMUSG00000033799.9	-6.1591037	-10.929485	-1.3887221	0.01158183	Fam208b
ENSMUSG00000037351.9	-1.9396695	-3.5087629	-0.370576	0.01524326	Actr1b
ENSMUSG00000038884.14	-1.1615136	-2.1173388	-0.2056884	0.01693528	A230050P20
ENSMUSG00000032997.16	-2.0177768	-3.8920746	-0.1434789	0.03404059	Chpf
ENSMUSG00000033781.6	-4.3786807	-7.4359801	-1.3213813	0.00577264	Asb13
ENSMUSG00000046093.9	-1.7319351	-3.335294	-0.1285762	0.03342208	Hpcal4
ENSMUSG00000037503.12	1.56804396	0.11784014	3.01824778	0.0324314	Fam168b
ENSMUSG00000051111.15	-2.3313617	-4.4346513	-0.2280721	0.02898868	SvZc
ENSMUSG00000020038.9	-2.2128807	-3.6035452	-0.8222163	0.0026895	Cry1
ENSMUSG000000110542.1	8.12907977	3.51580899	12.7423505	0.00121975	Gm39139
ENSMUSG00000031837.14	-1.7851924	-3.372592	-0.1977927	0.02672033	Necab2
ENSMUSG00000045777.14	-3.2794315	-4.8243528	-1.7345102	0.00025669	IfftM10
ENSMUSG00000062995.12	-1.6946899	-3.302531	-0.0868488	0.03812888	Ica1
ENSMUSG00000025272.16	-2.0782903	-3.7867702	-0.3698103	0.01682836	Tro
ENSMUSG00000060904.14	-1.7892044	-3.3897069	-0.1887019	0.02763811	Arl1
ENSMUSG00000020706.13	-2.2027985	-4.0770866	-0.3285103	0.02070026	Ftsj3
ENSMUSG00000031885.14	-6.3980441	-9.8012593	-2.9948289	0.00072073	Cbfb
ENSMUSG00000098950.7	-1.4392592	-2.7030697	-0.1754487	0.02487189	Gm28036
ENSMUSG00000031832.15	-1.4204411	-2.5097523	-0.3311299	0.01086228	Taf1c
ENSMUSG00000021822.2	-1.7291399	-2.7033687	-0.754911	0.00115127	Plau
ENSMUSG00000075555.11	-1.2356342	-2.2001659	-0.2711025	0.0121767	Gm10863
ENSMUSG000000110540.1	-1.6160375	-2.8355128	-0.3965622	0.00977598	Gm45743
ENSMUSG000000105294.1	-1.1584919	-2.0286942	-0.2882895	0.0094846	Gm43304
ENSMUSG0000003348.9	-1.3154377	-2.18564	-0.4452353	0.0039294	Mob3a
ENSMUSG00000082088.1	-0.9964913	-1.8666937	-0.1262889	0.02409456	Gm15753
ENSMUSG000000108718.1	-1.403257	-2.2734594	-0.5330547	0.00243248	Gm44749
ENSMUSG00000030670.16	-2.5047906	-3.374993	-1.6345883	1.55E-05	Cyp2r1
ENSMUSG00000098014.1	-1.3226804	-2.1928828	-0.452478	0.00377552	Gm26967
ENSMUSG00000021490.10	-1.1337057	-2.1534455	-0.113966	0.02850707	Slc34a1
ENSMUSG000000109492.1	-0.3278947	-0.4774055	-0.178384	0.00019269	Gm33882
ENSMUSG00000034566.10	-0.6215879	-1.2096237	-0.0335522	0.03754981	Atp5h
ENSMUSG00000025169.6	-4.5449724	-7.9926937	-1.0972511	0.01011857	Ogfd3
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ENSMUSG00000087479.1	-4.1116528	-7.6208586	-0.6024471	0.02107841	Gm16835
ENSMUSG00000031654.16	-1.8397384	-3.5037147	-0.1757622	0.02940186	Cbhl1
ENSMUSG00000034379.8	-4.7892992	-8.5940417	-0.9845567	0.01361208	Wdr5b
ENSMUSG00000025485.13	-1.7414697	-3.4070004	-0.075939	0.0397781	Ric8a
ENSMUSG00000027109.16	-2.0002986	-3.8000093	-0.2005879	0.02855081	Sp3
ENSMUSG00000022257.3	-1.6816448	-3.2505789	-0.1127106	0.03485787	Laptn4b
ENSMUSG00000030965.19	-2.3142559	-4.1632127	-0.465299	0.01410557	AbraXas2
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ENSMUSG00000040640.10	-1.595433	-3.1309465	-0.0599195	0.0411138	Erc2
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ENSMUSG00000063063.12	-0.9091614	-1.7677032	-0.0506197	0.03719223	Ctnna2
ENSMUSG00000086944.1	-4.8863432	-9.3316062	-0.4410802	0.0303661	Gm15859
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ENSMUSG00000027770.5	-1.8724971	-3.5511674	-0.1938268	0.02797972	Dhx36
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ENSMUSG00000025742.5	-6.0974575	-11.116164	-1.0787511	0.01695643	Prps2
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ENSMUSG00000029712.14	-4.5032784	-8.8581592	-0.1483976	0.0421481	Actl6b
ENSMUSG00000092558.3	-2.0230162	-3.502816	-0.5432165	0.00794556	Med20
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ENSMUSG00000017716.15	-6.0711092	-10.262895	-1.8793236	0.00533643	Birc5
ENSMUSG00000032410.13	-0.4706425	-0.9154509	-0.0258341	0.03735742	Xrn1
ENSMUSG00000028960.18	-1.0108764	-1.7457606	-0.2759922	0.00762061	Ube4b
ENSMUSG00000053166.14	-2.2941608	-4.4247201	-0.1636016	0.03399993	Cdh22
ENSMUSG00000063884.6	2.76119607	0.51704842	5.00534372	0.01569104	Ptcd3
ENSMUSG00000020780.15	-2.4432872	-4.5638496	-0.3227247	0.02325225	Srp68
ENSMUSG00000029376.8	5.64579638	1.3887145	9.90287826	0.00972652	Mthfd2l
ENSMUSG00000021701.7	-8.775597	-14.455179	-3.0959402	0.00334798	Plk2
ENSMUSG00000085748.1	-6.0276909	-9.9396978	-2.1156839	0.00341704	Gm12280
ENSMUSG00000021567.14	-5.1760944	-9.3366889	-1.0185199	0.0145851	Nkd2
ENSMUSG00000052026.7	-2.0282226	-3.8544581	-0.2019871	0.02867378	Sic6a7
ENSMUSG00000032869.15	-2.2725415	-4.4311455	-0.1139376	0.03836603	Psmf1
ENSMUSG0000008999.7	-5.004848	-8.726812	-1.282884	0.00887587	Bmp7
ENSMUSG00000036452.17	-0.7673838	-1.5299001	-0.0048675	0.04842765	Arhgap26
ENSMUSG00000034154.15	-5.2561518	-9.9631205	-0.5491832	0.02780959	Ino80
ENSMUSG00000036186.5	2.77239303	0.56660858	4.97817747	0.01374188	Fam69b
ENSMUSG00000028637.15	-3.3545843	-6.686739	-0.0224296	0.04834339	Ccdc30
ENSMUSG00000019951.9	-2.0872951	-3.9894543	-0.1851358	0.03065754	Uhrf1bp1l
ENSMUSG00000034171.13	-4.368602	-8.5518201	-0.1853839	0.04003453	Faah
ENSMUSG00000019428.16	-1.8285779	-3.4783179	-0.1788379	0.02899339	Fkbp8
ENSMUSG00000027168.21	-2.7640639	-5.1380673	-0.3900605	0.0218755	Pax6
ENSMUSG00000037791.15	-5.0245879	-9.2399446	-0.8092312	0.01903184	Phf12
ENSMUSG00000089833.1	-4.5506999	-8.7065537	-0.3947461	0.03102211	Fhitos
ENSMUSG00000064061.13	-0.9701529	-1.6781712	-0.2621346	0.00782312	Drip3
ENSMUSG00000034610.14	-1.7732074	-3.5225025	-0.0239122	0.04669188	Zcchc11
ENSMUSG00000039452.5	-2.5858214	-4.6081215	-0.5635213	0.01232455	Smr22
ENSMUSG00000050708.16	-0.6825538	-1.3097149	-0.0553928	0.03208078	Fhl1
ENSMUSG00000033697.15	-0.8286947	-1.6080778	-0.0493116	0.03639431	Arhgap39
ENSMUSG00000021265.3	-1.8488454	-3.3869824	-0.3107085	0.01809574	Sic25a29
ENSMUSG00000030685.5	-6.5711502	-10.84509	-2.2972107	0.00347174	Kctd13
ENSMUSG00000022438.6	-2.7583271	-4.6795332	-0.8371211	0.00567434	Parvb
ENSMUSG00000022781.8	-2.2048536	-4.2317285	-0.1779786	0.03216391	PaK2
ENSMUSG0000001151.9	-1.1983207	-2.3414542	-0.0551872	0.03924524	Pcnt
ENSMUSG00000057667.7	-7.9691531	-13.238114	-2.7001921	0.00391384	Bloc1s3
ENSMUSG00000106446.1	-3.8905798	-7.5203413	-0.2608184	0.03485497	Gm42970
ENSMUSG00000073728.10	-4.2673998	-8.138059	-0.3967406	0.02986908	Tmem51os1
ENSMUSG00000032307.16	-5.6538698	-10.099384	-1.2083552	0.01275276	Ube2q2
ENSMUSG00000097164.1	-2.2872769	-3.9430475	-0.6315062	0.00740466	Cep83os
ENSMUSG00000025795.7	-5.0198263	-9.5299288	-0.5097237	0.02832684	Rassf3
ENSMUSG00000108867.1	-4.5040089	-8.426931	-0.5810867	0.02373307	Gm44643
ENSMUSG00000024772.9	-2.4121698	-4.5931315	-0.2312081	0.02934499	Ehd1
ENSMUSG00000042208.15	-0.8926107	-1.6839154	-0.101306	0.02626338	0610010F051
ENSMUSG00000062373.7	-2.2030809	-4.2606496	-0.1455122	0.03505472	Tmem65
ENSMUSG00000110529.1	-4.904333	-9.4069513	-0.4017146	0.03193646	Gm45694
ENSMUSG00000038671.15	-2.2030772	-4.3213735	-0.084781	0.0409076	Arfrp1
ENSMUSG00000068663.13	-0.8254067	-1.5374359	-0.1133774	0.0224417	Clec16a
ENSMUSG00000042275.8	-2.267335	-4.449128	-0.085542	0.04107567	Pelo
ENSMUSG00000100143.1	1.10468786	0.08347116	2.12590455	0.03316298	NA
ENSMUSG00000026914.15	-3.5827548	-6.1958425	-0.9696671	0.00779063	Psm14
ENSMUSG00000061751.15	-2.3464343	-4.6517423	-0.0411262	0.04572594	Kalrn
ENSMUSG00000051786.14	-2.018782	-3.995304	-0.04226	0.04492106	Tubgcp6
ENSMUSG0000001120.15	-2.5574979	-4.7036243	-0.4113716	0.01905974	Pcbp3
ENSMUSG00000027778.15	-2.3701979	-4.5993515	-0.1410443	0.03639384	lft80
ENSMUSG00000107059.1	-1.8358668	-3.4081799	-0.2635538	0.02151315	Gm43629
ENSMUSG00000021807.5	-1.706069	-3.4105788	-0.0015593	0.04977165	Rtraf
ENSMUSG00000029501.14	-5.0028875	-9.2617219	-0.7440532	0.02075911	Ankle2
ENSMUSG00000021669.14	-2.2792786	-4.2019687	-0.3565885	0.01966531	Col4a3bp
ENSMUSG00000045008.1	-4.6916255	-8.7068999	-0.6763511	0.02142419	9030612E09F
ENSMUSG00000097275.1	-1.8953401	-3.7260942	-0.0645861	0.04189438	Gm26648
ENSMUSG00000020069.16	-4.3016357	-8.3277031	-0.2755683	0.0354584	Hnrnp3
ENSMUSG00000025008.15	-5.8019724	-10.909408	-0.6945365	0.02523041	Tctn3
ENSMUSG00000083282.2	-2.2559394	-4.2853149	-0.2258719	0.02857578	Ctsf
ENSMUSG00000051065.8	-4.1221809	-7.7552626	-0.4890992	0.02540414	Mb21d2
ENSMUSG00000048264.15	-1.9554092	-3.8289236	-0.0818947	0.04015631	Dip2c
ENSMUSG00000028955.3	3.9115275	0.21100631	7.6120487	0.03755689	Vamp3
ENSMUSG00000043468.4	-6.2866092	-11.253932	-1.3192859	0.01315551	Adam30
ENSMUSG00000040414.7	3.14101544	0.03132653	6.25070434	0.04754077	Sic25a28
ENSMUSG00000091957.3	-1.6704949	-2.485995	-0.8549948	0.00034954	Rps2-ps10
ENSMUSG00000095325.1	-5.3208277	-9.3340263	-1.3076291	0.00974491	Zfp870
ENSMUSG00000067199.4	-1.3577152	-2.3742067	-0.3412236	0.00928007	Frat1
ENSMUSG00000028871.7	-4.4498252	-8.5159347	-0.3837158	0.03111824	Rspo1
ENSMUSG00000033763.14	-0.8984816	-1.7177994	-0.0791639	0.03076705	Mtssl1

ENSMUSG00000035620.14	-4.4477694	-8.0926755	-0.8028633	0.01650916	Ric8b
ENSMUSG00000016194.14	-5.1707881	-10.278805	-0.0627713	0.0470161	Hsd11b1
ENSMUSG00000033152.13	-2.3929766	-4.3138372	-0.4721161	0.01452645	Podxl2
ENSMUSG00000092248.1	-5.4713425	-10.501843	-0.4408426	0.03219235	Vmn1r-ps63
ENSMUSG00000025362.5	0.53112002	0.0224863	1.03975374	0.04005604	Rps26
ENSMUSG00000030374.15	-1.8210254	-3.5339514	-0.1080995	0.03642398	Strn4
ENSMUSG00000026788.13	-4.8712453	-9.4512027	-0.2912879	0.03633382	Zbtb43
ENSMUSG00000037003.15	-6.6710084	-12.279908	-1.0621085	0.01928343	Tns2
ENSMUSG00000079658.9	-1.7993306	-3.5857226	-0.0129387	0.04821968	Eloc
ENSMUSG00000054863.8	-2.6550993	-4.7630641	-0.5471345	0.01355874	Fam19a5
ENSMUSG00000024639.5	-1.1416828	-2.2332504	-0.0501152	0.03971483	Gnaq
ENSMUSG00000010358.13	-5.8285038	-10.910043	-0.7469647	0.02386861	Ifi35
ENSMUSG00000039787.13	-5.2725337	-9.7896751	-0.7553923	0.02155585	Cercam
ENSMUSG00000004631.15	-5.49593	-10.092581	-0.8992791	0.0186842	Scge
ENSMUSG00000079598.3	-2.1160793	-4.0225651	-0.2095936	0.02877017	Clec2l
ENSMUSG00000044933.2	2.05469507	0.0323225	4.07706765	0.04615372	Sstr3
ENSMUSG00000040659.3	-1.2755158	-2.151366	-0.2356655	0.01599019	Efh2d
ENSMUSG00000020919.11	-2.9960451	-5.5785589	-0.4135313	0.02234064	Stat5b
ENSMUSG00000097206.1	5.21034733	0.35963594	10.0610587	0.0344562	Gm26699
ENSMUSG00000000959.6	-1.7366497	-3.2595185	-0.2137808	0.02467772	Oval1
ENSMUSG00000049521.1	1.03761169	0.4525355	1.62266883	0.00115837	Cdc42ep1
ENSMUSG00000043448.13	1.91230023	0.01743556	3.80716491	0.04774898	Gjc2
ENSMUSG00000100944.1	-8.50632	-14.103482	-2.9091577	0.00377938	Gm28900
ENSMUSG00000060301.5	-4.7569262	-8.16555	-1.3483024	0.00690681	2610008E11f
ENSMUSG00000104145.1	-4.884333	-8.1420148	-1.6266511	0.00416924	D130019J16f
ENSMUSG00000027324.1	-5.1101833	-9.5436646	-0.6767021	0.02320004	Rpusd2
ENSMUSG00000073514.3	-6.8216928	-12.095934	-1.5474515	0.0114507	Dok6
ENSMUSG00000056919.9	-4.9332432	-9.4318307	-0.4346557	0.03076723	Cept162
ENSMUSG00000027981.14	-1.9398781	-3.8082482	-0.071508	0.04126892	Rnpc3
ENSMUSG00000050390.12	-5.3072465	-10.609066	-0.0054269	0.04974457	C77080
ENSMUSG00000030556.13	-1.6906413	-3.2580917	-0.123191	0.03369225	Lrrc28
ENSMUSG00000030207.15	-2.2049896	-4.3633486	-0.0466305	0.04487071	Fam234b
ENSMUSG00000029148.15	-0.5272461	-0.8500433	-0.2044488	0.00220649	Nrbp1
ENSMUSG00000050730.16	-5.5515931	-10.360475	-0.742711	0.02298931	Arhgap42
ENSMUSG00000031428.11	-0.6806556	-1.3079253	-0.0533859	0.03260455	Zcchc18
ENSMUSG00000050272.9	-2.7019893	-5.2357053	-0.1682732	0.03582303	Dscam
ENSMUSG00000042389.13	-1.769776	-2.9971623	-0.5423898	0.00550603	Tsen2
ENSMUSG00000021193.9	-5.3816662	-10.132527	-0.6308058	0.02564168	Pitrm1
ENSMUSG00000031960.14	-2.3545142	-4.5376096	-0.1714187	0.03370451	Aars
ENSMUSG00000106981.1	-2.2101768	-4.1526268	-0.2677268	0.02499701	Gm45495
ENSMUSG00000022388.14	-6.4442435	-11.953291	-1.3351958	0.01411691	Ttll8
ENSMUSG00000039842.15	-1.7626972	-3.4983774	-0.0270171	0.04625024	Mcp1
ENSMUSG00000030980.17	0.49973599	0.09362031	0.90585167	0.015681	Knop1
ENSMUSG00000033294.11	-5.4414544	-9.8823166	-1.0005921	0.01609639	Noc4l
ENSMUSG00000024856.10	-4.3350057	-8.5336529	-0.1363584	0.04248798	Cdk2ap2
ENSMUSG00000040282.13	-4.6178902	-9.1314707	-0.1043096	0.0445331	BC052040
ENSMUSG00000066829.6	-6.001521	-11.351658	-0.651384	0.02710705	Zfp810
ENSMUSG00000097971.3	-0.8669928	-1.5872286	-0.1467571	0.01793642	Gm26917
ENSMUSG00000046287.7	1.06516695	0.31638783	1.81394607	0.00605166	Pnma3
ENSMUSG00000104625.1	-6.6498539	-11.591145	-1.7085632	0.00882797	Gm42448
ENSMUSG00000064363.1	0.44630236	0.09620261	0.7964021	0.01256485	mt-Nd4
ENSMUSG00000023883.13	-2.9065355	-5.5125145	-0.2978565	0.02816158	Phf10
ENSMUSG00000031578.5	-3.0514058	-5.4996414	-0.6031701	0.0144839	Mak16
ENSMUSG00000020658.9	-1.0905567	-2.1476257	-0.0334877	0.04265834	Efr3b
ENSMUSG0000001729.14	-4.0293869	-7.2131023	-0.8456716	0.01315346	Akt1
ENSMUSG00000024867.14	-4.5590336	-8.9109125	-0.2071548	0.03937883	Pip5k1b
ENSMUSG00000042109.7	-1.8113678	-3.5258344	-0.0969012	0.03765165	Csd2
ENSMUSG00000046519.15	-5.4880804	-10.287399	-0.6887618	0.02429127	Golph3l
ENSMUSG00000036615.5	-3.7291135	-7.4066321	-0.051595	0.04660766	Rfxap
ENSMUSG0000002150.16	2.56573244	0.40631636	4.72514852	0.01940029	Dab2
ENSMUSG00000033618.6	-2.961484	-5.7391756	-0.1837924	0.03586746	Map3k13
ENSMUSG00000028029.10	0.58748933	0.09632755	1.0786511	0.01863879	Aimp1
ENSMUSG00000032523.10	2.25306103	0.6708605	3.83526156	0.00600845	Hhat1
ENSMUSG00000031870.16	-6.2423714	-11.427788	-1.056955	0.01793014	Pgr
ENSMUSG00000101249.1	2.38304981	0.51165736	4.25444226	0.01265152	Gm29216
ENSMUSG00000038848.14	-2.7460179	-5.2468586	-0.2451773	0.03054825	Ythdf1
ENSMUSG00000037674.15	-1.9300322	-3.3721374	-0.487927	0.00915875	Rfx7
ENSMUSG00000034101.14	-5.9460562	-10.673917	-1.2181955	0.01368773	Ctnnd1
ENSMUSG00000106897.1	-1.3673483	-2.5325962	-0.2021004	0.02089208	Gm43027
ENSMUSG00000074622.4	-6.0335072	-10.628474	-1.4385403	0.0103827	Mafb
ENSMUSG00000037007.17	-1.0355021	-1.9905141	-0.08049	0.03274061	Zfp113
ENSMUSG00000030032.12	-3.0622015	-5.5936421	-0.5307609	0.01741203	Wdr54
ENSMUSG00000024054.13	-1.4054684	-2.5544423	-0.2564945	0.01626504	Smchd1
ENSMUSG00000025821.9	-4.973866	-9.8720342	-0.0756978	0.04627608	Zfp282
ENSMUSG00000021939.7	-2.4790425	-4.7395544	-0.2185305	0.03075909	Ctsb
ENSMUSG00000028644.16	-4.9114336	-9.2041444	-0.6187227	0.02421538	Ermap
ENSMUSG00000050907.14	1.02001394	0.00450382	2.03552406	0.0489024	Pex1
ENSMUSG00000097311.7	-4.2308753	-8.4180014	-0.0437491	0.04745163	Gm26871
ENSMUSG00000094832.1	-4.5751535	-8.9374799	-0.2128272	0.03914466	Gm21846
ENSMUSG00000020484.18	-3.1429471	-5.7830296	-0.5028647	0.01917589	Xbp1
ENSMUSG00000052593.15	3.97021454	0.15201848	7.7884106	0.04095058	Adam17
ENSMUSG00000019948.3	-5.2658919	-9.8707179	-0.6610659	0.02428552	Actr6
ENSMUSG00000087968.1	-5.4583836	-10.571642	-0.3451253	0.03562835	Gm25395
ENSMUSG00000024712.9	-0.9659617	-1.8352083	-0.0967152	0.02857852	Rfk
ENSMUSG00000087437.7	-4.6453289	-8.9663747	-0.3242831	0.03429928	Gm13112
ENSMUSG00000072915.3	-6.1069553	-11.131908	-1.0820023	0.01692412	Gm12258
ENSMUSG00000052605.12	-5.9661873	-11.472753	-0.4596221	0.03287508	Isoc2b
ENSMUSG00000033985.17	-5.5503377	-10.072037	-1.0286386	0.01592172	Tesk2
ENSMUSG00000033499.13	-0.9922258	-1.7896112	-0.1948404	0.01463122	Larp4b
ENSMUSG00000105285.1	-9.3827915	-15.389936	-3.3756474	0.00308997	Gm43238
ENSMUSG00000077450.12	-0.6845288	-1.3065466	-0.062511	0.03017201	Rab11b
ENSMUSG00000024732.7	-3.9868558	-7.9084777	-0.0652339	0.04600312	Ccdc86
ENSMUSG00000064901.1	-2.0078605	-3.7700564	-0.2456647	0.0247989	Snora21
ENSMUSG00000078441.10	-1.8135457	-3.4405806	-0.1865108	0.02809732	NA
ENSMUSG00000029433.14	-1.7748382	-3.5359893	-0.013687	0.04809217	Diablo
ENSMUSG00000071669.14	-4.7562173	-9.3516142	-0.1608203	0.04195385	Snx29
ENSMUSG00000108826.1	-8.3288097	-13.19597	-3.4616492	0.0015383	493141215R
ENSMUSG00000034042.16	-1.9492189	-3.2497438	-0.648694	0.00417997	Gphpl1
ENSMUSG00000030286.6	0.46909518	0.01569562	0.92249474	0.04203364	Emc3
ENSMUSG00000038593.18	-2.3923294	-4.7646398	-0.0200191	0.04793177	Tctn1
ENSMUSG00000026664.7	0.7143112	0.18728099	1.24134142	0.00841955	Phyh
ENSMUSG00000033378.9	-4.60175	-8.959838	-0.2435162	0.03777397	Grik5
ENSMUSG00000037805.14	-3.5476724	-6.1355772	-0.9597676	0.00779887	Rpl10a
ENSMUSG00000059482.15	-2.8032464	-5.3403454	-0.2661473	0.02950958	2610301820l
ENSMUSG0000002115.14	-4.2643668	-7.6767879	-0.8519458	0.01424715	Vrk1

ENSMUSG00000033047.4	-2.4523186	-4.5972101	-0.3074271	0.02431362	Elf3l
ENSMUSG00000107750.1	-8.6073014	-14.627203	-2.5873994	0.00584058	Gm44013
ENSMUSG00000093989.1	-0.9503842	-1.7034788	-0.1972895	0.01339588	Rnasek
ENSMUSG00000053536.6	-2.4998836	-4.4714286	-0.5283387	0.01299934	Cstf2t
ENSMUSG00000045455.7	-5.0523013	-10.008459	-0.0961437	0.04536987	Gm9797
ENSMUSG00000032589.14	-0.7668907	-1.3737049	-0.1600766	0.01327407	Bsn
ENSMUSG00000046192.4	-5.8640311	-10.913638	-0.8144243	0.0222108	Iqub
ENSMUSG00000040896.16	-2.2620018	-4.2595525	-0.2644512	0.02569205	Kcnd3
ENSMUSG00000066677.11	-6.7510114	-12.507685	-0.994338	0.0209671	Ifi208
ENSMUSG00000051343.11	-2.1669958	-4.2635397	-0.070452	0.04224818	Rab11fip5
ENSMUSG00000041168.9	-0.5898125	-1.0172026	-0.1624225	0.00745453	Lonp1
ENSMUSG00000002297.15	-5.250747	-10.256942	-0.2445524	0.03913238	Dbf4
ENSMUSG00000109781.1	5.02205624	0.47032622	9.57378627	0.02974446	Gm45509
ENSMUSG00000074811.2	-4.4739229	-7.7017594	-1.2460863	0.00723731	Hps6
ENSMUSG00000048285.8	2.10145905	0.04434814	4.15856997	0.0448811	Frmf6
ENSMUSG00000018567.14	-0.7082602	-1.3729626	-0.0435578	0.03598275	Gabarap
ENSMUSG00000081342.1	-9.2494103	-14.777539	-3.7212819	0.00183349	Gm11434
ENSMUSG00000026728.9	-2.1582653	-4.1094914	-0.2070392	0.0293309	Vim
ENSMUSG00000056665.2	4.5284257	-7.7578859	-1.2989655	0.00668448	Them6
ENSMUSG00000039115.13	5.0302827	-9.5731016	-0.4874638	0.02915449	Itaga9
ENSMUSG00000079157.4	-2.8852505	-5.5669846	-0.2135164	0.0334684	Fam155a
ENSMUSG00000043843.16	-5.2612592	-9.9931446	-0.5293738	0.02849071	Tmem145
ENSMUSG00000106841.1	-5.4882369	-10.791568	-0.1849056	0.04198125	Gm42656
ENSMUSG00000050229.3	-7.8064892	-13.362405	-2.2505734	0.00659162	Pigm
ENSMUSG00000102690.1	-7.8138651	-14.170098	-1.4576321	0.01577591	Gm37779
ENSMUSG00000106101.1	5.97285188	0.69400237	11.2517014	0.02581136	Gm43438
ENSMUSG00000083253.1	-2.2453733	-4.1989807	-0.2917659	0.02358747	Gm7108
ENSMUSG00000038594.8	-5.414722	-10.537577	-0.2918667	0.03756582	Cep85l
ENSMUSG00000032567.14	-7.6245094	-13.687189	-1.5618302	0.0136911	Aste1
ENSMUSG00000024260.13	-4.3725586	-8.1003273	-0.64479	0.02094162	Sap130
ENSMUSG00000097189.1	5.69582408	0.05949254	11.3321556	0.04742627	Gm26594
ENSMUSG00000027552.14	5.38953343	0.43741244	10.3416544	0.03207993	E2f5
ENSMUSG00000031728.10	1.19631671	0.00844357	2.38418985	0.04825223	Zfp821
ENSMUSG00000081046.1	-6.0027511	-10.918247	-1.0872548	0.01643315	Gm12846
ENSMUSG00000036285.10	-2.3817072	-4.3420976	-0.4213169	0.01695909	Noa1
ENSMUSG00000035764.5	-2.1529757	-4.2872448	-0.187066	0.04785352	Fbxo45
ENSMUSG00000048833.8	-5.4512725	-10.405164	-0.4973809	0.03018647	Slc39a9
ENSMUSG00000020935.8	-5.3595168	-10.311139	-0.4078944	0.03305642	Dcald
ENSMUSG00000033720.12	0.83608878	0.00792229	1.66425527	0.04766186	Sfxn5
ENSMUSG00000086040.8	-2.1553679	-4.222657	-0.0880788	0.04038012	Wipf3
ENSMUSG00000087598.9	-2.1196326	-4.1994593	-0.039806	0.045429	Zfp111
ENSMUSG00000036398.13	-0.7716543	-1.5055324	-0.0377762	0.03861928	Ppp1r11
ENSMUSG00000025894.11	-5.4103592	-8.6172508	-2.2034676	0.00171894	Aasdhppt
ENSMUSG00000046324.12	-5.7428111	-11.11035	-0.3752718	0.03519715	Ermp1
ENSMUSG00000022802.2	-2.0130725	-3.7453707	-0.2807743	0.02212179	Lmln
ENSMUSG00000022350.6	-6.4981049	-11.493718	-1.5024918	0.01103825	Washc5
ENSMUSG00000024451.8	-5.4339544	-10.790623	-0.0772862	0.04651474	Arap3
ENSMUSG00000025348.8	-7.0129073	-12.400653	-1.6251613	0.0109901	Itaga7
ENSMUSG00000019774.8	-5.0293971	-8.8052128	-1.2535814	0.00945114	Mtrf11
ENSMUSG00000048814.10	-4.6470335	-8.2934792	-1.0005879	0.01258906	Lonrf2
ENSMUSG00000008305.18	-4.4497612	-8.1343521	-0.7651703	0.01758786	Tle1
ENSMUSG00000037013.15	7.37680661	1.16047757	13.5931357	0.0195451	Ss18
ENSMUSG00000026385.16	0.63492837	0.00963329	1.26022344	0.04628729	Dbi
ENSMUSG00000003269.16	-2.6187021	-5.0338439	-0.2035604	0.03274005	Cyth2
ENSMUSG00000071359.13	-5.2747048	-10.430661	-0.1187484	0.04455072	Tbpl1
ENSMUSG00000026433.13	-6.0385556	-11.370577	-0.7065341	0.02567652	Rab29
ENSMUSG00000002307.15	-2.9966452	-5.8130608	-0.1802296	0.03626221	Daxx
ENSMUSG00000079083.2	1.33390451	0.00718127	2.66062775	0.0486636	Jrk
ENSMUSG00000021189.11	-2.4862034	-4.9391703	-0.0332365	0.04672	Atbn3
ENSMUSG00000026077.15	-3.7703151	-6.56933	-0.9713001	0.00877387	Npas2
ENSMUSG00000039801.6	-0.8943603	-1.7101155	-0.0786052	0.03080783	2410089E03f
ENSMUSG00000024395.7	-6.1283511	-11.553765	-0.7029376	0.02606033	Lims2
ENSMUSG00000034055.16	-7.9209372	-14.25468	-1.5871943	0.01418073	Phka1
ENSMUSG00000029787.10	-5.3999394	-10.357219	-0.4426594	0.03192411	Avl9
ENSMUSG00000038002.8	-7.2692248	-13.232624	-1.3058255	0.01661698	Cramp1l
ENSMUSG00000036902.10	-5.4301033	-10.129852	-0.730354	0.02287872	Neto2
ENSMUSG00000034675.17	-0.5871191	-1.1417705	-0.0324678	0.03727142	Dbn1
ENSMUSG00000041439.15	-1.3042191	-2.4569748	-0.1514634	0.02582126	Mfsd6
ENSMUSG00000022132.15	-6.5855795	-11.315064	-1.856095	0.00701292	Cldn10
ENSMUSG00000088185.1	-7.4600894	-13.421664	-1.4985149	0.01412625	Scarna2
ENSMUSG00000016262.14	-6.4632653	-12.703873	-0.222658	0.04181019	Sertad4
ENSMUSG00000039840.7	-5.7821396	-11.17656	-0.3877196	0.03485169	Epg5
ENSMUSG00000030084.11	-3.465299	-6.3689325	-0.5616654	0.0188923	Plxn1
ENSMUSG00000003429.11	-0.4734104	-0.9287102	-0.0181107	0.04095814	Rps11
ENSMUSG00000106032.1	5.03489845	0.2923335	9.77746341	0.036694	Gm42463
ENSMUSG00000024424.14	-2.365177	-4.4479827	-0.2823713	0.02528295	Ttc3c
ENSMUSG00000020086.6	-3.7684037	-7.4022174	-0.13459	0.04152569	H2afy2
ENSMUSG00000085196.1	-2.3052631	-4.1774093	-0.4331169	0.01561651	Gm14963
ENSMUSG00000024404.6	-2.4177073	-4.7805545	-0.0548601	0.04450906	Riok3
ENSMUSG00000083378.3	-1.3754871	-2.4940922	-0.256882	0.01575047	Gm13196
ENSMUSG00000045672.15	-5.9807237	-11.71897	-0.2424771	0.04045113	Col27a1
ENSMUSG00000020900.15	0.49908374	0.11845752	0.87970996	0.0104787	Myh10
ENSMUSG00000015305.6	-0.9995818	-1.9274772	-0.0716864	0.03391973	Sash1
ENSMUSG00000047379.6	-0.6129259	-1.0891676	-0.1366842	0.01182147	B4gat1
ENSMUSG00000018849.6	0.57439892	0.08064771	1.06815013	0.02198243	Wwc1
ENSMUSG00000074505.4	-1.1200651	-2.0486158	-0.1915143	0.0171353	Fat3
ENSMUSG00000020705.6	-0.5830574	-1.1219769	-0.044138	0.0331356	Ddx42
ENSMUSG00000066952.11	-4.8679459	-9.0664924	-0.6693994	0.02241859	Myo1h
ENSMUSG00000025128.7	-2.704584	-5.2309545	-0.1782134	0.03508636	Bhlhe22
ENSMUSG00000051238.5	-5.8898199	-11.059681	-0.7199592	0.02481733	Swsap1
ENSMUSG00000016349.10	-0.9991248	-1.5551316	-0.443118	0.00104227	Eef1a2
ENSMUSG00000020420.8	-7.6603294	-14.275359	-1.0452995	0.02257919	Zfp607a
ENSMUSG00000096956.2	4.60757413	0.36643487	8.84871339	0.03239307	Snhg18
ENSMUSG00000026792.16	-5.6663714	-10.415207	-0.9175356	0.01891347	Lrsam1
ENSMUSG00000031529.5	-1.4067623	-2.5788114	-0.2347132	0.0182551	Tnks
ENSMUSG00000005370.3	-5.4207668	-10.499285	-0.3422489	0.03564713	Msh6
ENSMUSG00000042831.13	-5.8420278	-11.144495	-0.5395608	0.02998112	Alkbh6
ENSMUSG00000029777.10	0.42530487	0.02366294	0.8269468	0.03720057	Gars
ENSMUSG00000041703.7	-1.6859767	-3.3592137	-0.0127397	0.04813019	Zic5
ENSMUSG00000024944.5	-1.1681505	-2.2458869	-0.090414	0.03280485	Arf2
ENSMUSG00000091264.2	1.17139426	0.07390677	2.26888174	0.03565605	Snim13
ENSMUSG00000078630.8	6.93993914	0.69147278	13.1884055	0.02866513	Tomt
ENSMUSG00000028049.15	6.85039222	1.99669917	11.7039793	0.00639112	Scamp3
ENSMUSG00000063767.4	-5.8899655	-10.471188	-1.3087429	0.01190018	S100a7a
ENSMUSG00000014980.14	-6.711131	-11.359452	-2.0627744	0.0054564	Tsen15



ENSMUSG00000029486.13	-4.521116	-8.8999756	-0.1422564	0.04248577	Mrpl1
ENSMUSG00000069814.6	-5.8572303	-11.421988	-0.2924729	0.03840945	Ccdc92b
ENSMUSG00000019851.7	-6.1972406	-11.703995	-0.690486	0.02661453	Perp
ENSMUSG00000071723.7	-0.9555511	-1.6883687	-0.2227335	0.01086495	Gspt2
ENSMUSG00000038822.15	-5.6706134	-11.028448	-0.312779	0.03730133	Hace1
ENSMUSG00000012609.18	0.68763274	0.07049612	1.30476936	0.02815421	Ttlf5
ENSMUSG00000036435.13	-3.9961746	-7.7663917	-0.2259576	0.03701075	Exoc1
ENSMUSG00000044067.6	-6.9341847	-12.100222	-1.7681477	0.00898264	Gpr22
ENSMUSG00000035834.11	-6.8986297	-12.925769	-0.8714909	0.02415918	Polr3g
ENSMUSG00000023345.15	3.96432096	0.11372406	7.81491787	0.04312034	Pocla
ENSMUSG00000022829.14	-6.0636584	-11.811947	-0.3153699	0.0379667	Stxbp5l
ENSMUSG00000023186.14	5.50097791	0.95869151	10.0432643	0.01729071	Vwa5a
ENSMUSG00000031835.16	0.65711193	0.02976633	1.28445754	0.03940917	Mbtps1
ENSMUSG00000008035.12	-2.7041438	-4.3582449	-1.0500427	0.00219162	Mid1p1
ENSMUSG00000090624.1	-6.64375	-12.64664	-0.6408602	0.02923477	Gm17060
ENSMUSG00000029797.13	-8.6823508	-16.306246	-1.0584553	0.02487079	Sspo
ENSMUSG00000015488.14	1.14344004	0.5132572	1.77362288	0.0009637	Cacfd1
ENSMUSG00000032199.12	-1.4795773	-2.6552391	-0.3039154	0.01363014	Polr2m
ENSMUSG00000021591.7	5.28784282	0.47362597	10.1020597	0.03049554	Glrx
ENSMUSG00000027184.14	-1.0711282	-2.1220103	-0.0202462	0.04540012	Caprin1
ENSMUSG00000028926.15	-0.4738608	-0.8997019	-0.0480196	0.02836313	Cdk14
ENSMUSG00000025486.17	-5.8814198	-11.066663	-0.6961764	0.02545062	Sirt3
ENSMUSG00000058267.13	-4.201339	-7.9540468	-0.4486313	0.02740962	Mrps14
ENSMUSG00000097482.2	6.0055582	0.22895971	11.7821567	0.04098732	Gm17634
ENSMUSG00000022528.7	6.25460331	1.31909825	11.1901084	0.01304587	Hes1
ENSMUSG00000054855.13	-6.3794486	-11.91072	-0.8481771	0.02311747	Rnd1
ENSMUSG00000022865.13	7.50018923	1.382872	13.6175065	0.01603643	Cxadr
ENSMUSG00000033676.13	-4.6124882	-8.5426611	-0.6823152	0.02087425	Gabbr3
ENSMUSG00000035133.8	1.08354766	0.50101229	1.66608304	0.00078693	Arhgap5
ENSMUSG00000055720.9	-8.6165132	-15.385124	-1.8479025	0.01267679	Ubl7
ENSMUSG00000079069.1	-5.8828277	-11.050177	-0.7154788	0.02491751	8430423G03
ENSMUSG00000020261.15	6.51927568	0.32227855	12.7162728	0.03851632	Slc36a1
ENSMUSG00000025058.4	-2.0180548	-3.9038648	-0.1322448	0.03515974	5430427019
ENSMUSG00000024030.6	-1.201445	-2.2126547	-0.1902353	0.01940359	Abcg1
ENSMUSG00000093858.1	-6.5244294	-12.890376	-0.1584831	0.04413599	Gm19967
ENSMUSG00000096950.2	3.43681563	1.3827654	5.49086586	0.00183318	Gm9530
ENSMUSG00000106734.3	-6.9768768	-13.584205	-0.3695485	0.0377635	Gm20559
ENSMUSG0000002523.9	-6.2227242	-11.590711	-0.8547373	0.02244201	Fgf12
ENSMUSG00000021867.16	-8.2416765	-14.651163	-1.8321904	0.01188946	Tmem254b
ENSMUSG00000072676.11	-8.2416765	-14.651163	-1.8321904	0.01188946	Tmem254a
ENSMUSG00000003458.12	5.23192178	0.20030843	10.2635351	0.04095145	Ncstn
ENSMUSG00000004698.10	1.50355772	0.3528026	2.65431283	0.01072302	Hdac9
ENSMUSG00000087574.1	-4.3310966	-8.2826218	-0.3795714	0.03085473	C030037D09I
ENSMUSG00000095440.1	-6.6622377	-12.848948	-0.4755279	0.03987174	Flgnt2
ENSMUSG00000053929.16	0.52666505	0.05494264	0.99838745	0.02783793	Cyhr1
ENSMUSG00000085492.7	-6.2077007	-11.714526	-0.7008754	0.02636286	Trmt61b
ENSMUSG00000032932.14	-2.168006	-4.2610133	-0.0749987	0.04177784	Hspa13
ENSMUSG00000090048.1	7.1413239	0.8063706	13.4762772	0.02636084	Rumx2os3
ENSMUSG00000025738.7	-1.43442	-2.4150841	-0.4537559	0.00497668	Fbxl16
ENSMUSG00000064127.13	-1.9152043	-3.4469759	-0.3834328	0.01420017	Med14
ENSMUSG00000031955.10	-5.1829788	-9.6581882	-0.7077694	0.0225639	Bcar1
ENSMUSG00000006675.10	-0.960669	-1.8916749	-0.029663	0.04261949	P4htm
ENSMUSG00000091475.2	-7.0904402	-14.034972	-1.145908	0.04500463	2810468N07
ENSMUSG00000018821.3	1.14788654	0.18456454	2.11120855	0.01906829	Avp1
ENSMUSG00000078117.2	-8.902689	-16.410142	-1.3952364	0.01962741	Gm16485
ENSMUSG00000027079.15	-7.0115151	-13.98897	-0.0340605	0.04879322	Cip1
ENSMUSG00000096370.8	4.7326429	0.37494864	9.09033715	0.03245142	Gm21992
ENSMUSG00000025318.13	-0.8292547	-1.5414852	-0.1170242	0.02187532	Jph3
ENSMUSG00000021238.10	-7.5039021	-13.712087	-1.2957176	0.01749589	Aldh6a1
ENSMUSG00000066158.7	8.20701539	2.05097869	14.3630521	0.00936682	AY512931
ENSMUSG00000044505.5	-6.4960526	-12.964944	-0.0271609	0.04896029	Lingp4
ENSMUSG00000087543.1	-9.3904356	-16.16517	-2.6157008	0.00723544	Gm16576
ENSMUSG00000030583.16	-4.3616778	-8.3173055	-0.4060501	0.02984624	Sipa113
ENSMUSG00000054693.14	-4.339326	-8.3766654	-0.3019866	0.0343423	Adam10
ENSMUSG00000015837.15	-0.5428963	-1.0043057	-0.0814869	0.02056189	Sqstm1
ENSMUSG00000070544.6	0.59408429	0.0167265	1.17144207	0.04324246	Top1
ENSMUSG00000085326.1	-4.0763953	-8.1126888	-0.0401018	0.04757378	Gm15642
ENSMUSG00000108402.1	-1.1328107	-1.9707879	-0.2948335	0.00856699	9430064I24R
ENSMUSG00000089682.9	6.86304381	0.84281747	12.8832702	0.02472536	Bcl2l2
ENSMUSG00000030534.13	-2.0421668	-3.8693498	-0.2149837	0.027672	Vps33b
ENSMUSG00000029063.16	-6.9288085	-13.697366	-0.1602512	0.04440669	Nadk
ENSMUSG00000022160.17	4.8416586	0.00085354	9.68246366	0.04995591	Mettl3
ENSMUSG00000107091.1	-9.2109899	-17.176219	-1.2457606	0.0227641	Gm43343
ENSMUSG00000052609.8	0.71872368	0.00586889	1.43157846	0.04798118	Plekhg3
ENSMUSG00000030539.13	-2.5319559	-4.9848396	-0.0790722	0.04253928	Sema4b
ENSMUSG00000025903.14	1.48439594	0.04488726	2.92390462	0.04276502	Lyp1a1
ENSMUSG00000027878.11	-1.112008	-2.0108759	-0.2131402	0.01517094	Notch2
ENSMUSG00000034235.16	-3.9963141	-7.9873486	-0.0052796	0.04967013	Usp54
ENSMUSG00000024798.15	-7.2554215	-13.40914	-1.1017026	0.02031235	Htr7
ENSMUSG00000056260.15	4.95907319	0.6857664	9.23237999	0.02230137	Lrfl1
ENSMUSG00000038415.9	5.3223856	0.31384877	10.3309224	0.0365057	Foxq1
ENSMUSG00000050121.8	-7.033153	-13.223637	-0.8426693	0.02521287	Opalin
ENSMUSG00000092837.1	-3.9120553	-7.4920399	-0.3320706	0.03137197	Rpph1
ENSMUSG00000024851.13	-0.3966432	-0.7409467	-0.0523397	0.02327241	Pitpnm1
ENSMUSG00000067219.9	-1.4831792	-2.7166314	-0.2497269	0.01805408	Nipal1
ENSMUSG00000053931.11	0.73229529	0.05823661	1.40635396	0.03239359	Cnn3
ENSMUSG00000102266.1	-1.3478402	-2.6561197	-0.0395607	0.04296809	Gm38106
ENSMUSG00000051149.15	-1.4480774	-2.8772255	-0.0189292	0.04679133	Adnp
ENSMUSG00000015133.17	-8.2826669	-16.265962	-0.299372	0.04142951	Lrrk1
ENSMUSG00000034403.16	-1.1153311	-2.164743	-0.0659193	0.03647766	Pja1
ENSMUSG00000032127.8	-2.3609675	-4.5561841	-0.1657508	0.03422025	Vps11
ENSMUSG00000032905.4	-1.230565	-2.3264147	-0.1347153	0.02694613	Atg12
ENSMUSG00000087502.1	-1.7866367	-3.474873	-0.0984004	0.03731859	Gm16091
ENSMUSG00000042428.6	-1.1276621	-2.211204	-0.0441201	0.04076495	Mgat3
ENSMUSG00000046607.6	1.1658717	0.2011424	2.130601	0.01751479	Hrk
ENSMUSG00000011096.17	-1.2279876	-2.4197439	-0.0362313	0.04293297	Akt1s1
ENSMUSG00000086844.1	-6.865018	-13.610763	-0.119273	0.04576232	B230206H07
ENSMUSG00000022676.6	3.64383738	0.16371532	7.12395943	0.03948951	Snai2
ENSMUSG00000039137.18	-6.4333489	-12.468969	-0.3977284	0.03591632	Whrn
ENSMUSG00000030649.18	-8.7104152	-16.76453	-0.6563003	0.03320487	Anapc15