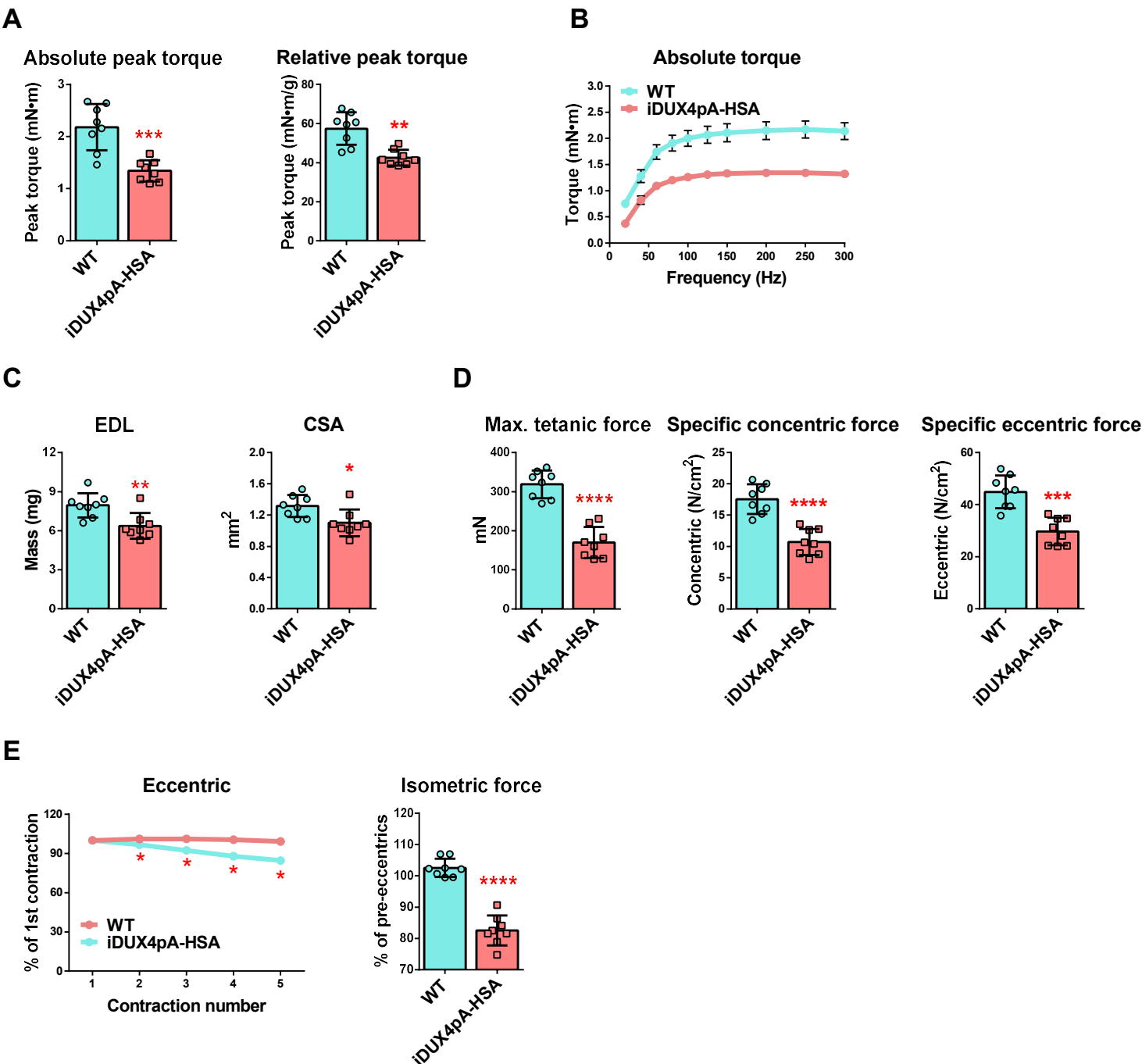


Supplemental Figure 1. *In vivo* and *ex vivo* skeletal muscle physiology of iDUX4pA-HSA mice

- A. Isometric *in vivo* absolute and relative tetanic torque.
- B. Isometric *in vivo* absolute torque-frequency relationship of the anterior crural muscles (tibialis anterior; TA, extensor digitorum longus; EDL and extensor hallucis longus).
- C. Characteristics (mass and cross section area (CSA)) of the iDUX4pA-HSA EDL muscle.
- D. *Ex vivo* maximum tetanic forces, specific concentric and specific eccentric force of iDUX4pA-HSA EDL muscle.
- E. *Ex vivo* contraction-induced force loss of the EDL muscle across five maximal eccentric contractions and percent reduction in isometric tetanic force. Data represents mean $\pm$ SEM; * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$, $n = 8$.

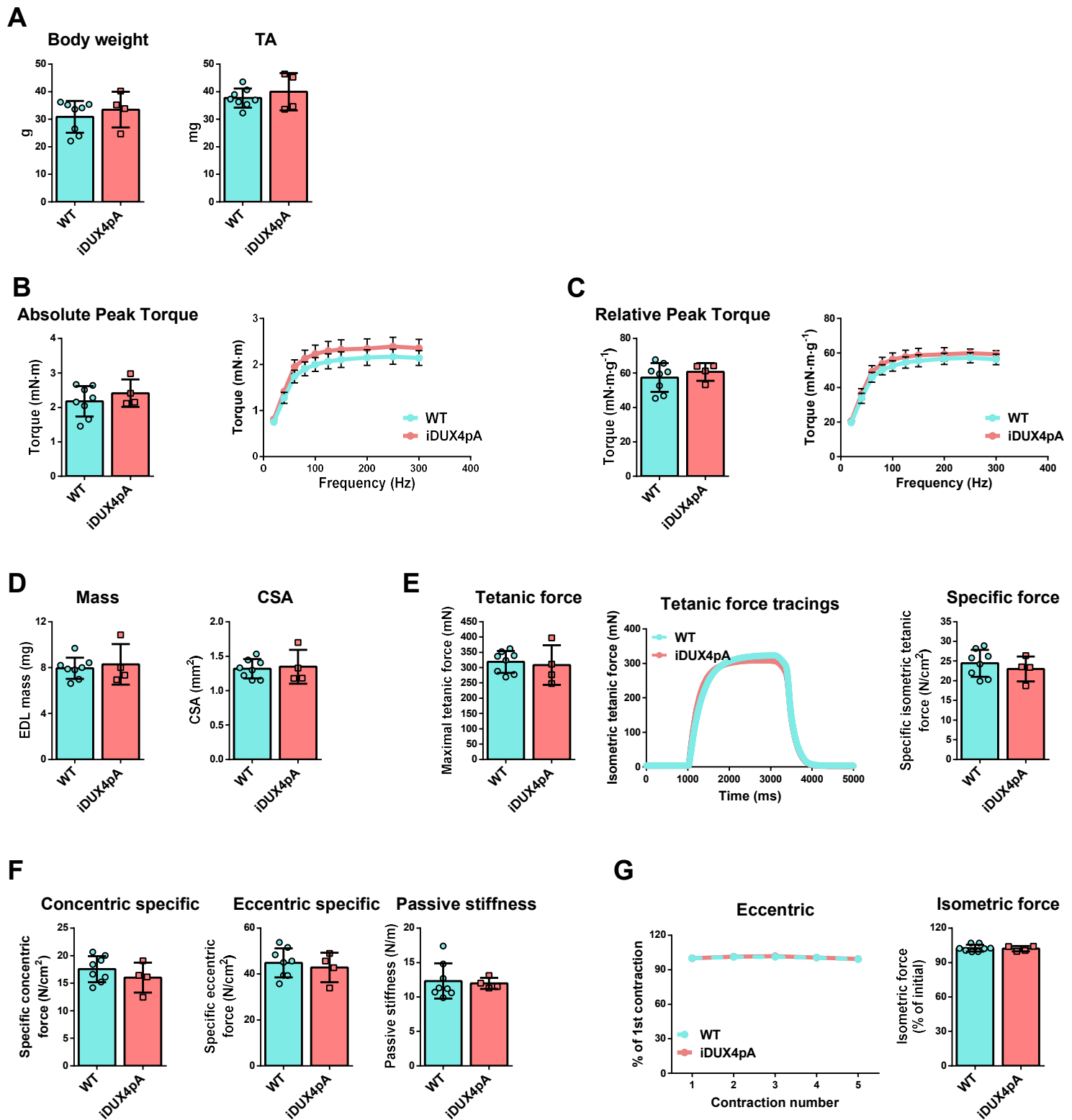
Supplemental Figure 1



Supplemental Figure 2. *In vivo* and *ex vivo* skeletal muscle physiology of iDUX4pA-HSA mice

- A. Body weight (g) of the iDUX4pA and WT female mice and mass of TA muscle normalized to the body weight at 6 months.
- B. Isometric *in vivo* tetanic torque and torque-frequency relationship of the anterior crural muscles (tibialis anterior; TA, extensor digitorum longus; EDL and extensor hallucis longus) of iDUX4pA mice.
- C. Isometric *in vivo* tetanic torque and torque-frequency relationship of the anterior crural muscles expressed relative to the mass of the TA muscle.
- D. Characteristics of the iDUX4pA EDL muscle.
- E. Isometric *ex vivo* tetanic force with representative force-time tracings and tetanic forces expressed relative to the physiological cross-sectional area of the EDL muscle.
- F. *Ex vivo* specific concentric and eccentric force and passive stiffness.
- G. *Ex vivo* contraction-induced force loss of the EDL muscle across five maximal eccentric contractions and percent reduction in isometric tetanic force after the eccentric contractions. Data represent mean $\pm$ SEM, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$, $n = 4-8$.

Supplemental Figure 2



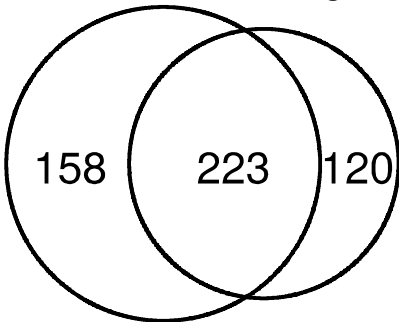
Supplemental Figure 3. Genes affected in the muscle of iDUX4pA-HSA mouse are enriched in FSHD biopsies

- A. Venn diagrams for core enriched genes identified by GSEA analyses presented in Fig. 2E and F. Diagrams present unique and overlapping genes of core enriched differentially expressed genes in 2 and 16 weeks induced mice in relation to DEG identified by two independent studies in FSHD patients (Wand et al. 2019 and Taska et al. 2012).
- B. Venn diagrams present genes of core enriched differentially expressed genes in FSHD biopsies and in muscle from 2 and 16 weeks induced mice.

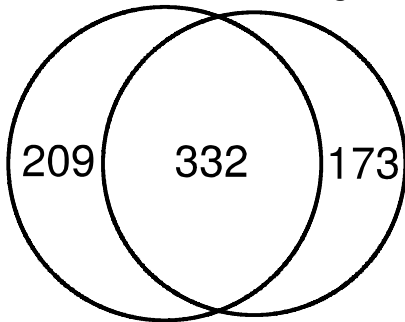
Supplemental Figure 3

A

Core enriched genes in muscle
at 2 weeks whole muscle DEG
Tasca et al. Wang et al.

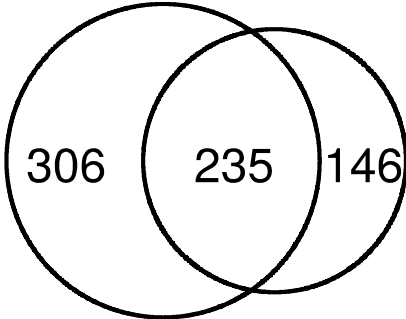


Core enriched genes in muscle
at 16 weeks whole muscle DEG
Tasca et al. Wang et al.

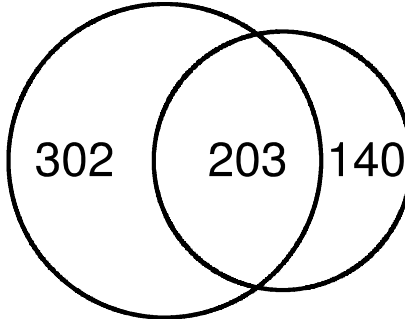


B

Core enriched genes in Tasca et al.
16 Weeks 2 Weeks
Whole Muscle DEG Whole Muscle DEG



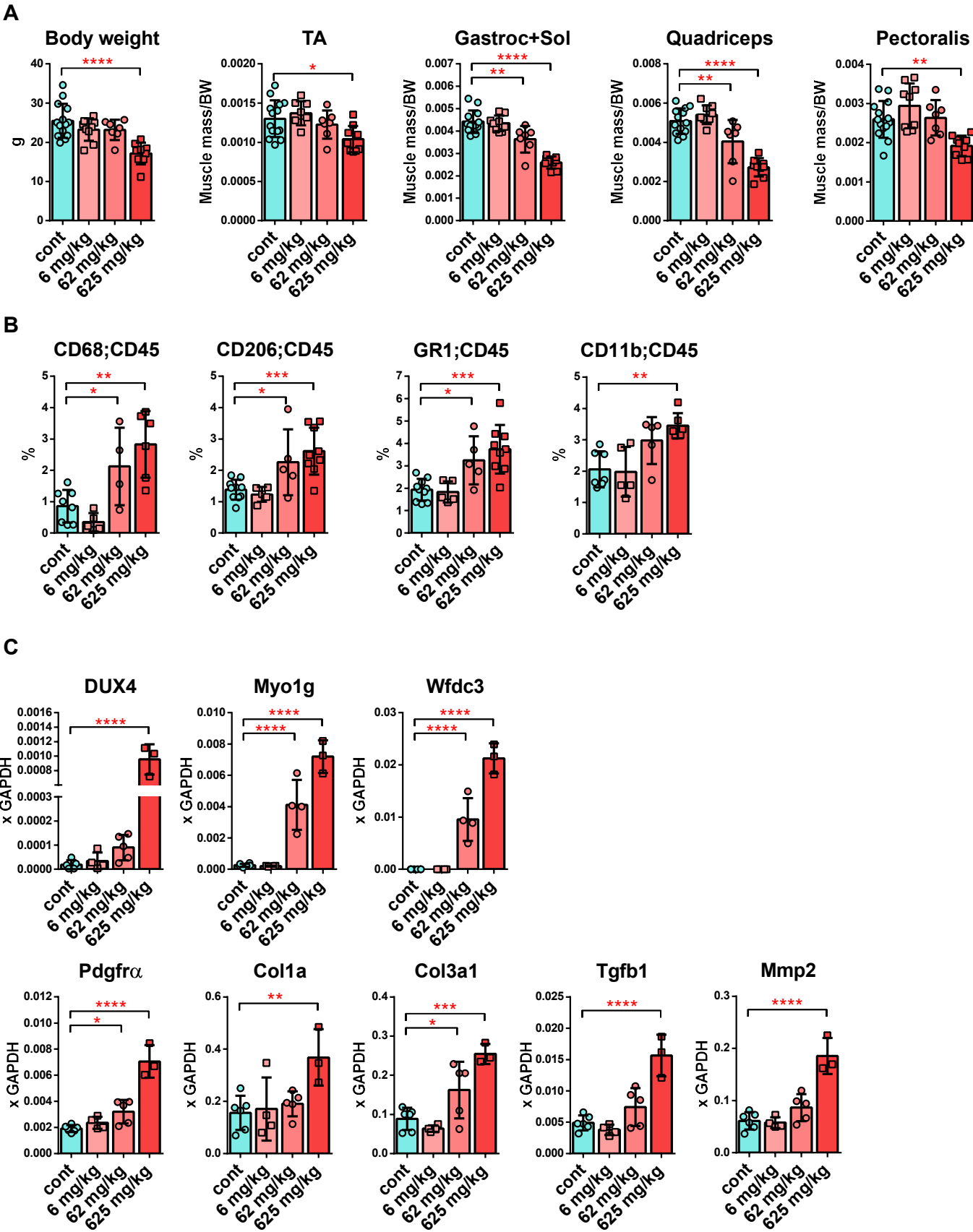
Core enriched genes in Weng et al.
16 Weeks 2 Weeks
Whole Muscle DEG Whole Muscle DEG



Supplemental Figure 4. DUX4 dose-dependent effect on muscle inflammation

- A. Body weight and mass of different muscle normalized to the body weight from iDUX4pA-HSA mice fed with food containing 3 different concentrations of doxycycline (6, 62 and 625 mg/kg) for 3 months.
- B. Inflammatory cells infiltration in skeletal muscle after 3 months of induction.
- C. RTqPCR for DUX4, DUX4 target genes and some marker of fibrosis and inflammation in samples presented in B. Data represent mean $\pm$ SEM, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$ by one way ANOVA, $n=6$.

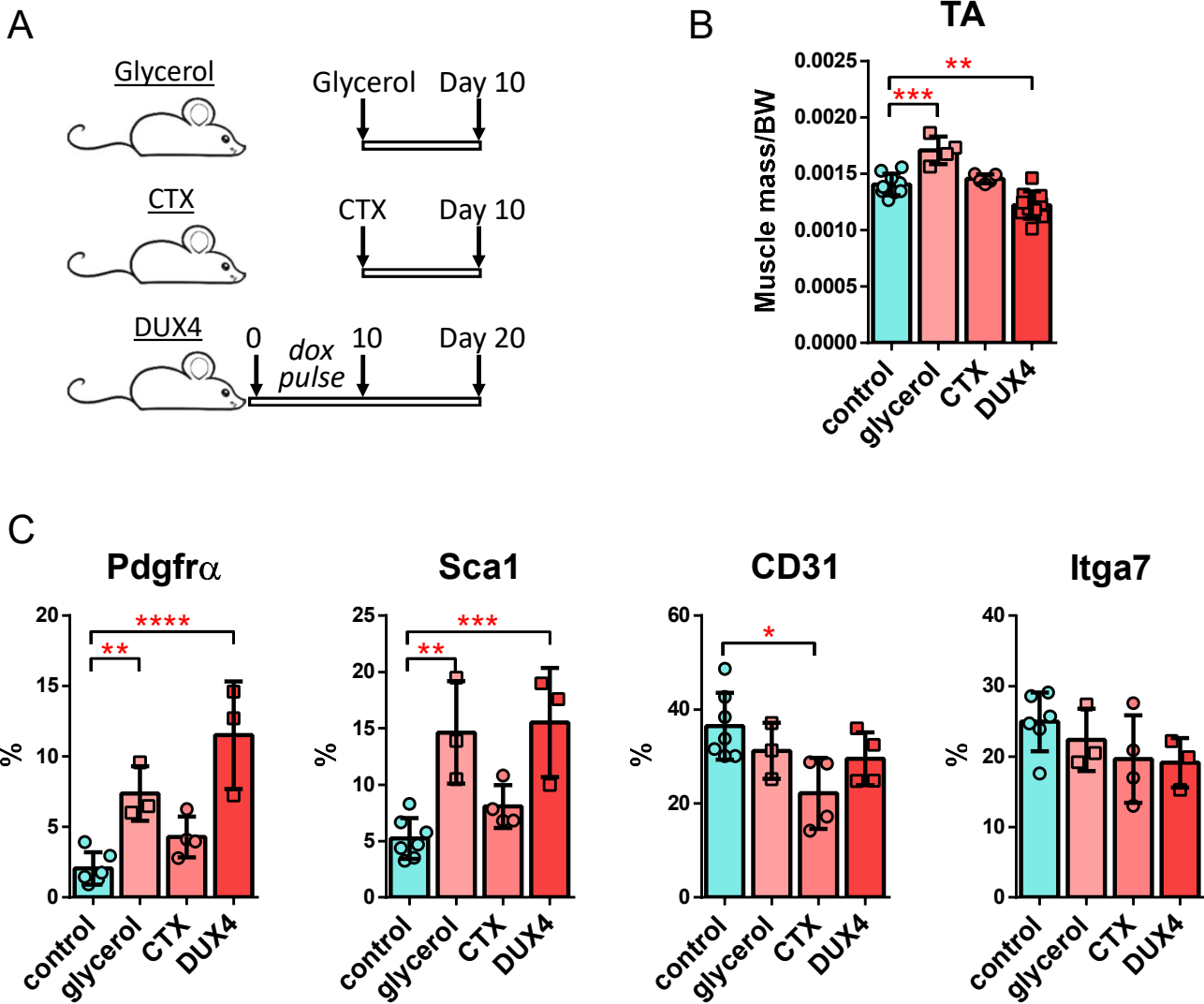
Supplemental Figure 4



Supplemental Figure 5. FAPs infiltration after the various type of muscle damage.

- A. Scheme of muscle damage. Left TA muscle of WT mice were injured with a single dose of cardiotoxin (15 ul) or glycerol (15 ul, 50:50 diluted in PBS). Right TA muscle was used as a control. DUX4 was induced in iDUX4pA-HSA mice by doxycycline supplemented food (625 mg/kg) for 10 days. Effect of the injury was analyzed 10 days after the muscle insult.
- B. Mass of the TA normalized to the body weight at the time of analyses. Data represents mean $\pm$ SEM, **p<0.01, ***p<0.001 by one way ANOVA, n=5.
- C. Summary of the FACS analyses for infiltration of CD45^{neg}/Pdgfra⁺, CD45^{neg}/Sca1⁺, CD45^{neg}/CD31⁺ and CD45^{neg}/Itga7⁺ cells in TA 10 days post injury. Data represents mean $\pm$ SEM, *p<0.05, **p<0.01, ***p<0.001, ****p<0.0001 by one way ANOVA, n=3.

Supplemental Figure 5

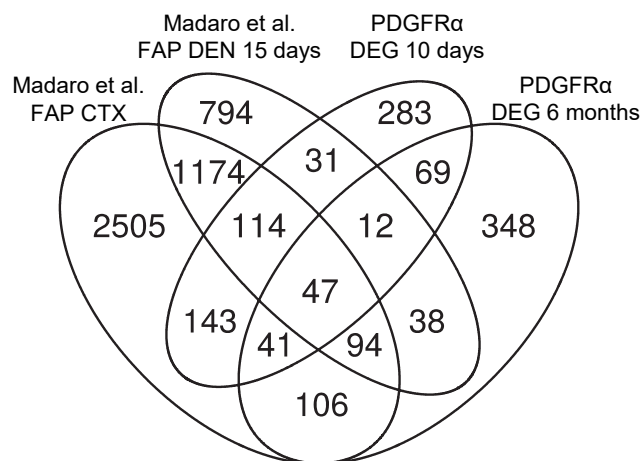


Supplemental Figure 6. Genes identified in FAPs from iDUX4pA-HAS mice are enriched in muscles from FSHD patients

- A. Venn diagram presents the number of common miss expressed genes in FAPs isolated from iDUX4pA-HSA mouse after acute (10 days) and chronic (6 months) induction and from muscle injured with cardiotoxin (CTX) or denervated muscles (DEN) for 15 days (Madaró et al. 2018).
- B. Venn diagram for core enriched genes in FAPs (PDGFR α +) from 10 days and 6 months induced mice in GSEA identified genes in Fig. 5C and D.

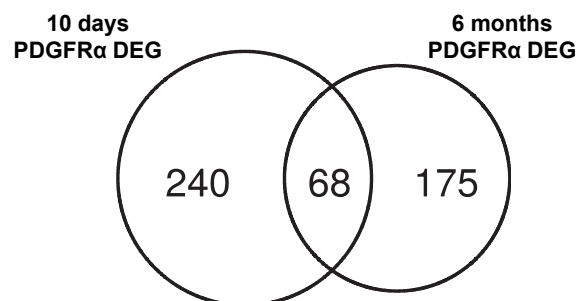
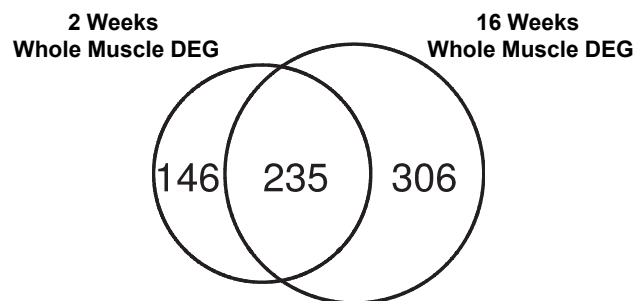
Supplemental Figure 6

A

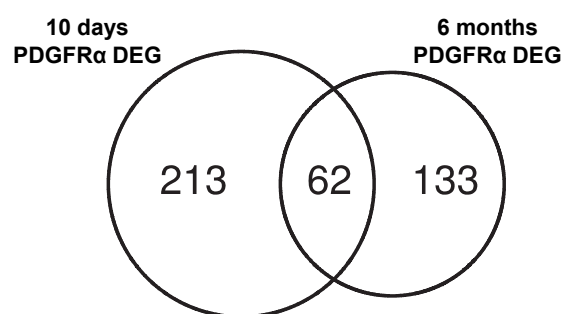
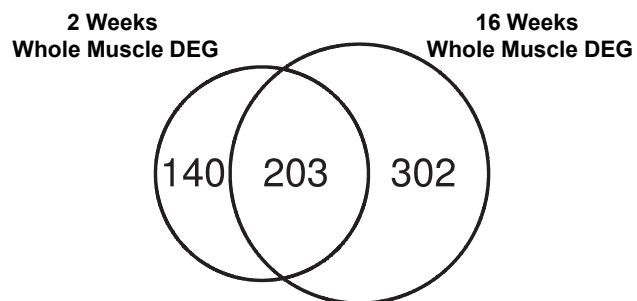


B

Core enriched genes in Tasca et al.



Core enriched genes in Wang et al.

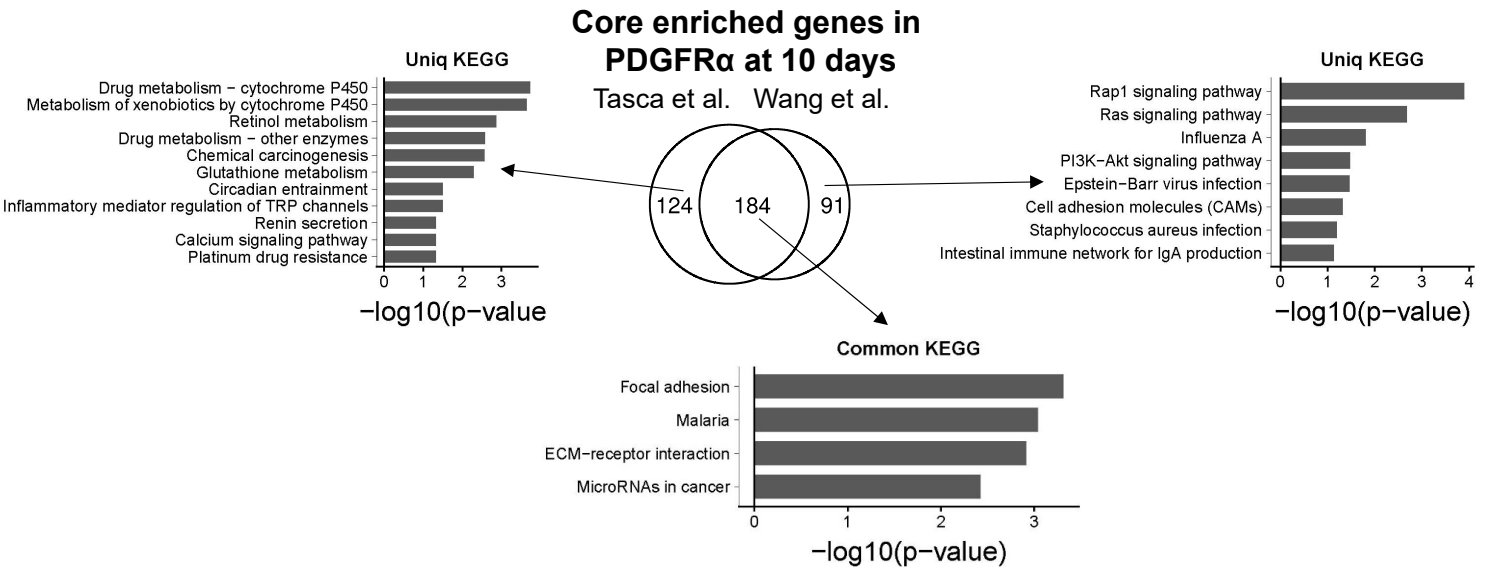


Supplemental Figure 7. KEGG pathway analyses on enriched genes from Pdgfra cells and FSHD biopsies.

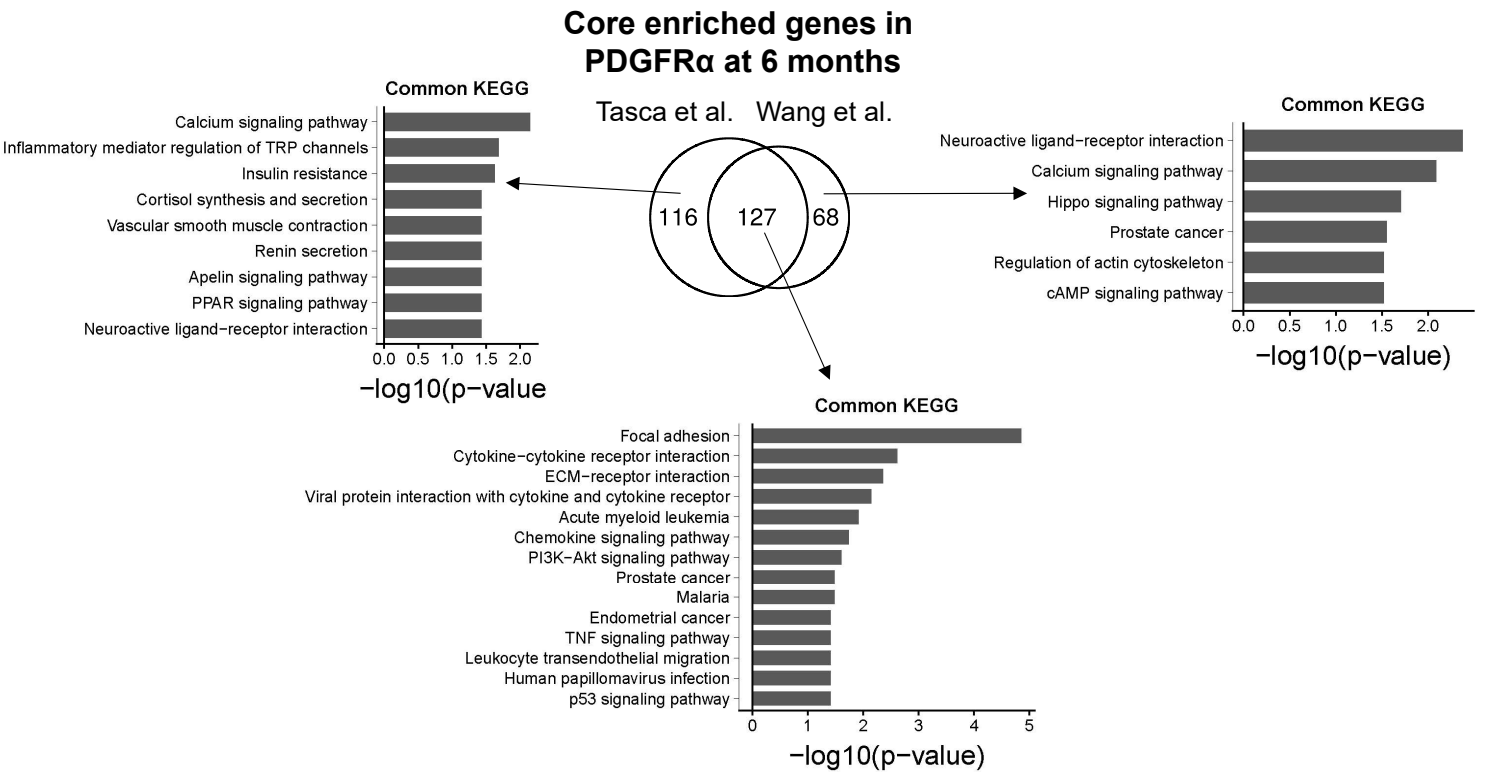
- A. KEGG pathway analyses of core enriched genes from Pdgfra cells isolated from 10 days induced mice and FSHD biopsies reported in the Tasca et al. and Wang et al. data sets.
- B. KEGG pathway analyses of core enriched genes from Pdgfra cells isolated from 6 months induced mice and FSHD biopsies reported in the Tasca et al. and Wang et al. data sets.

Supplemental Figure 7

A



B



Supplemental Tables

Supplemental Table 1. Differentially expressed genes in endothelial cells.

Differentially regulated genes in CD45^{neg}Pdgfr α ^{neg}CD31⁺ FACS sorted cells from control (n=3) and iDUX4pA-HSA (n=4) mice after 6 months induction with doxycycline. Heat map and MA-plot are shown in Figure 3F, H.

Supplemental Table 2. Differentially expressed genes in FAPs at 10 days.

Differentially expressed genes in CD45^{neg}CD31^{neg}Pdgfr α ⁺ FACS sorted cells from control and iDUX4pA-HSA mice after 10 days induction.

Supplemental Table 3. Differentially expressed genes in FAPs at 6 months.

Differentially expressed genes in FAPs sorted cells from control and iDUX4pA-HSA mice after 6 months induction with doxycycline (625 mg/kg chow). Heat map is shown in Figure 5A.

Supplemental Table 1. Differentially expressed genes in endothelial cells.

ID	logFC	logCPM	LR	PValue	FDR	Entrez	Gene
ENSMUSG00000000031	2.063274	11.31356	11.381	0.000742	0.011585	NA	H19
ENSMUSG00000000126	1.256585	3.648959	14.03039	0.00018	0.004055	216795	Wnt9a
ENSMUSG000000000392	1.450888	5.984758	18.09517	2.10E-05	0.000733	14089	Fap
ENSMUSG000000000567	1.156367	5.089625	10.69558	0.001074	0.01505	20682	Sox9
ENSMUSG000000000628	1.580878	8.034691	35.3665	2.73E-09	4.57E-07	15277	Hk2
ENSMUSG000000000693	1.301189	4.769235	33.17789	8.41E-09	1.24E-06	16950	Loxl3
ENSMUSG000000000739	1.172644	3.878885	11.8963	0.000562	0.009423	57429	Sult5a1
ENSMUSG000000000753	1.29854	9.485399	11.76958	0.000602	0.009946	20317	Serpinf1
ENSMUSG000000000881	1.498252	2.553556	14.58211	0.000134	0.003208	53310	Dlg3
ENSMUSG000000000957	1.926399	7.243604	38.17499	6.47E-10	1.31E-07	17387	Mmp14
ENSMUSG000000001119	1.820389	9.852654	25.49302	4.44E-07	3.31E-05	12833	Col6a1
ENSMUSG000000001138	1.116118	3.958671	13.37212	0.000255	0.005273	94218	Cnnm3
ENSMUSG000000001333	2.627503	4.478499	47.12121	6.67E-12	2.37E-09	68828	Sync
ENSMUSG000000001435	1.05463	6.761634	12.88135	0.000332	0.006388	12822	Col18a1
ENSMUSG000000001520	-1.46565	2.759815	21.98967	2.74E-06	0.000142	60345	Nrip2
ENSMUSG000000001555	1.190289	5.572649	22.80345	1.79E-06	0.000103	14230	Fkbp10
ENSMUSG000000001661	1.535912	2.045322	11.77014	0.000602	0.009946	15425	Hoxc6
ENSMUSG000000001802	2.413708	4.223185	21.1716	4.20E-06	0.000201	435965	Lrp3
ENSMUSG000000001911	1.735747	8.284623	94.46458	2.50E-22	5.07E-19	18032	Nfix
ENSMUSG000000002055	1.996335	1.602333	12.78741	0.000349	0.006645	54141	Spag5
ENSMUSG000000002602	1.371192	8.523935	14.74888	0.000123	0.003017	26362	Axl
ENSMUSG000000002831	-1.80555	7.660619	9.02546	0.002662	0.028997	57435	Plin4
ENSMUSG000000002847	1.534768	5.469999	22.07628	2.62E-06	0.000138	85031	Pla1a
ENSMUSG000000003549	-1.05142	4.632474	33.36028	7.66E-09	1.16E-06	13870	Erccl1
ENSMUSG000000003665	2.693664	10.31368	17.87861	2.35E-05	0.000809	15116	Has1
ENSMUSG000000004098	1.907246	8.410276	29.18507	6.58E-08	6.45E-06	53867	Col5a3
ENSMUSG000000004105	2.139857	7.627067	37.7701	7.96E-10	1.55E-07	26360	Angptl2
ENSMUSG000000004267	2.321142	2.368293	45.49368	1.53E-11	4.84E-09	13807	Eno2
ENSMUSG000000004296	8.217454	-0.75014	12.71367	0.000363	0.006842	NA	Il12b
ENSMUSG000000004317	1.174087	3.822259	11.02219	0.0009	0.013256	12728	Clcn5
ENSMUSG000000004473	1.694154	4.49273	17.25011	3.28E-05	0.001059	20256	Clec11a
ENSMUSG000000004655	-1.19471	9.492379	12.23064	0.00047	0.008317	11826	Aqp1
ENSMUSG000000004698	-1.60535	3.178294	11.17237	0.00083	0.012512	79221	Hdac9
ENSMUSG000000004791	2.128308	4.693425	47.24094	6.28E-12	2.32E-09	18654	Pgf
ENSMUSG000000005124	1.818489	2.409682	10.59242	0.001136	0.015681	22402	Wisp1
ENSMUSG000000005373	-1.24747	5.670433	16.76913	4.22E-05	0.001275	58805	Mlxipl
ENSMUSG000000005628	2.554133	7.317746	40.08342	2.43E-10	5.67E-08	50874	Tmod4
ENSMUSG000000005716	1.621774	11.31321	10.76917	0.001032	0.014621	19293	Pvalb
ENSMUSG000000006342	1.356053	4.709443	22.15192	2.52E-06	0.000135	71733	Susd2
ENSMUSG000000006369	1.264326	6.64037	9.4013	0.002168	0.025034	14114	Fbln1
ENSMUSG000000006457	1.569952	11.37277	22.00593	2.72E-06	0.000142	11474	Actn3
ENSMUSG000000006542	3.312011	6.406305	39.76812	2.86E-10	6.36E-08	241113	Prkag3
ENSMUSG000000007030	-1.98311	3.2198	24.78433	6.41E-07	4.47E-05	27762	Vwa7
ENSMUSG000000007908	2.050442	0.869638	7.889601	0.004972	0.045509	208982	Hmgcll1
ENSMUSG000000008136	1.765574	2.990002	10.87685	0.000974	0.014004	14200	Fhl2
ENSMUSG000000009214	8.247565	2.744224	17.06512	3.61E-05	0.001139	66139	Tmem8c

ENSMUSG00000009378	1.405983	1.124001	8.697706	0.003186	0.032959	240638	Slc16a12
ENSMUSG00000009471	-1.33066	4.589312	9.793192	0.001752	0.021331	17927	Myod1
ENSMUSG00000009670	-5.59737	0.305842	13.27356	0.000269	0.005517	83558	Tex11
ENSMUSG00000010175	1.568017	4.537084	13.67143	0.000218	0.004653	19130	Prox1
ENSMUSG00000010538	-1.69703	0.891592	10.4996	0.001194	0.016206	NA	Tsacc
ENSMUSG00000010663	1.009581	5.405351	12.37098	0.000436	0.007901	76267	Fads1
ENSMUSG00000010721	-1.58842	3.134765	25.70445	3.98E-07	3.01E-05	56873	Lmbr1
ENSMUSG00000010830	1.368236	4.383585	20.97777	4.65E-06	0.000215	105785	Kdelr3
ENSMUSG00000011008	2.323385	4.637853	17.42701	2.99E-05	0.000981	68279	Mcoln2
ENSMUSG00000011256	1.702999	3.799158	11.60319	0.000658	0.010648	11492	Adam19
ENSMUSG00000012017	1.097098	5.641068	14.63272	0.000131	0.003155	224024	Scarf2
ENSMUSG00000014243	-1.11427	3.59799	12.13606	0.000495	0.0086	69747	Zswim7
ENSMUSG00000014329	1.515249	6.139585	38.95489	4.34E-10	9.21E-08	83675	Bicc1
ENSMUSG00000014778	-1.12161	4.636605	16.34219	5.29E-05	0.001535	234686	Fhod1
ENSMUSG00000015085	1.369728	7.143343	21.13021	4.29E-06	0.000204	12496	Entpd2
ENSMUSG00000015133	1.084053	4.300802	15.57016	7.95E-05	0.002121	233328	Lrrk1
ENSMUSG00000015222	-1.33107	2.549602	11.30019	0.000775	0.01193	17756	Map2
ENSMUSG00000015396	2.304426	3.91294	19.66703	9.22E-06	0.000372	12522	Cd83
ENSMUSG00000015401	-6.03125	0.697479	18.9074	1.37E-05	0.000516	NA	Tmem27
ENSMUSG00000015467	-1.3193	1.749455	9.639029	0.001905	0.022617	81701	Egfl8
ENSMUSG00000015843	-1.82342	4.585742	9.271286	0.002328	0.026298	20183	Rxrg
ENSMUSG00000015944	1.06687	6.477093	22.84654	1.75E-06	0.000101	80909	Gatsl2
ENSMUSG00000016283	6.493679	-0.53948	20.76667	5.19E-06	0.000234	14990	H2-M2
ENSMUSG00000016356	-1.51569	3.464857	18.44975	1.74E-05	0.000631	73368	Col20a1
ENSMUSG00000017300	1.56511	11.55463	23.98045	9.73E-07	6.28E-05	21925	Tnnc2
ENSMUSG00000017453	-4.18527	-0.51625	12.61825	0.000382	0.007131	19193	Pipox
ENSMUSG00000017466	1.204356	9.81129	27.23823	1.80E-07	1.50E-05	21858	Timp2
ENSMUSG00000017764	-1.03783	2.693303	12.75789	0.000355	0.006714	71971	Zswim1
ENSMUSG00000018012	-1.63145	0.919729	18.02222	2.18E-05	0.000754	170758	Rac3
ENSMUSG00000018209	1.130187	4.085997	21.14989	4.25E-06	0.000203	58231	Stk4
ENSMUSG00000018486	7.299757	-1.52801	8.997659	0.002703	0.029285	22412	Wnt9b
ENSMUSG00000018648	-1.39232	2.636607	13.5153	0.000237	0.004962	NA	Dusp14
ENSMUSG00000018819	1.665637	6.250856	35.46956	2.59E-09	4.39E-07	NA	Lsp1
ENSMUSG00000018830	-1.66657	5.654343	15.90619	6.66E-05	0.001856	17880	Myh11
ENSMUSG00000019278	1.5518	8.034215	17.41311	3.01E-05	0.000986	13479	Dpep1
ENSMUSG00000019539	1.101029	6.516124	12.94323	0.000321	0.006256	NA	Rcn3
ENSMUSG00000019564	-1.15215	1.815247	9.006124	0.002691	0.029216	13496	Arid3a
ENSMUSG00000019787	1.445467	9.882297	8.406367	0.003739	0.036755	76757	Trdn
ENSMUSG00000019848	1.115498	5.506359	12.3591	0.000439	0.00794	78977	Popdc3
ENSMUSG00000019880	2.019498	2.017564	15.1209	0.000101	0.002552	72780	Rspo3
ENSMUSG00000019894	7.456821	0.407094	36.85094	1.28E-09	2.42E-07	NA	Slc6a15
ENSMUSG00000019899	1.130819	7.714615	12.47507	0.000412	0.007511	16773	Lama2
ENSMUSG00000019913	-4.58193	1.976839	14.99814	0.000108	0.002695	20464	Sim1
ENSMUSG00000019929	1.385082	12.55275	15.96872	6.44E-05	0.001803	NA	Dcn
ENSMUSG00000019975	1.036358	5.142472	30.63746	3.11E-08	3.57E-06	67454	Ikbip
ENSMUSG00000019987	-2.98213	-0.07576	9.713135	0.00183	0.022017	11846	Arg1
ENSMUSG00000020017	4.045535	2.077711	10.01045	0.001557	0.01977	15109	Hal
ENSMUSG00000020067	2.286958	7.94613	11.17377	0.00083	0.012512	68802	Mypn

ENSMUSG00000020098	-1.81484	1.468724	9.331261	0.002253	0.025676	13180	Pcbd1
ENSMUSG00000020102	2.111224	1.642141	8.58742	0.003385	0.034293	20503	Slc16a7
ENSMUSG00000020122	1.220924	6.808665	29.28354	6.25E-08	6.22E-06	13649	Egfr
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ENSMUSG00000020151	-1.056	2.223472	8.459736	0.003631	0.036103	NA	Ptprr
ENSMUSG00000020160	1.241628	3.42122	12.68253	0.000369	0.006944	17268	Meis1
ENSMUSG00000020241	1.86391	9.715542	24.28007	8.33E-07	5.59E-05	12834	Col6a2
ENSMUSG00000020303	1.142724	2.69598	9.224467	0.002388	0.026802	20856	Stc2
ENSMUSG00000020312	2.332905	3.88364	33.53713	6.99E-09	1.08E-06	216148	Shc2
ENSMUSG00000020319	1.377863	2.293081	11.06431	0.00088	0.013053	216560	Wdpcp
ENSMUSG00000020333	6.866979	4.501553	29.50035	5.59E-08	5.68E-06	216739	Acs16
ENSMUSG00000020354	1.110095	3.806903	12.32715	0.000446	0.007977	24052	Sgcd
ENSMUSG00000020357	1.756736	5.648325	11.63276	0.000648	0.010546	14257	Flt4
ENSMUSG00000020363	1.198207	9.381807	9.395144	0.002176	0.025078	14584	Gfpt2
ENSMUSG00000020364	2.314338	1.786442	17.24539	3.28E-05	0.00106	21408	Zfp354a
ENSMUSG00000020399	3.427897	0.049978	11.13724	0.000846	0.012689	171285	Havcr2
ENSMUSG00000020437	2.96751	4.339187	12.60154	0.000385	0.007176	246177	Myo1g
ENSMUSG00000020473	1.742096	7.905684	39.31778	3.60E-10	7.76E-08	11568	Aebp1
ENSMUSG00000020475	1.451085	9.316912	12.4227	0.000424	0.007711	56012	Pgam2
ENSMUSG00000020542	-2.72887	-0.22416	8.79449	0.003021	0.031811	214384	Myocd
ENSMUSG00000020676	1.1383	8.648166	10.07817	0.0015	0.019331	20292	Ccl11
ENSMUSG00000020695	1.949174	6.252059	31.08496	2.47E-08	2.90E-06	17534	Mrc2
ENSMUSG00000020722	3.633751	7.121294	41.13254	1.42E-10	3.55E-08	12299	Cacng1
ENSMUSG00000020810	1.404983	6.845039	28.09731	1.15E-07	1.05E-05	114886	Cygb
ENSMUSG00000020836	-1.01056	6.78316	11.07971	0.000873	0.012959	216961	Coro6
ENSMUSG00000020895	1.092086	2.779159	17.01858	3.70E-05	0.001157	66910	Tmem107
ENSMUSG00000020901	2.346401	3.33011	16.37337	5.20E-05	0.001519	320207	Pik3r5
ENSMUSG00000020921	1.439988	3.010976	19.34527	1.09E-05	0.00043	76547	Tmem101
ENSMUSG00000021054	1.464195	5.49234	55.92414	7.53E-14	4.34E-11	81535	Sgpp1
ENSMUSG00000021062	2.055697	3.582175	10.50431	0.001191	0.01618	104886	Rab15
ENSMUSG00000021071	5.458272	-0.83539	10.44692	0.001229	0.016623	94090	Trim9
ENSMUSG00000021187	1.600303	1.792558	18.79103	1.46E-05	0.000544	74413	Tc2n
ENSMUSG00000021207	-5.84156	0.596078	16.94229	3.85E-05	0.001193	77337	Akr1c21
ENSMUSG00000021281	1.998143	7.754238	19.30999	1.11E-05	0.000437	21928	Tnfaip2
ENSMUSG00000021318	1.963261	3.835283	20.87912	4.89E-06	0.000224	14634	Gli3
ENSMUSG00000021319	2.674635	5.731296	12.3244	0.000447	0.007979	20379	Sfrp4
ENSMUSG00000021388	1.307463	6.751694	9.851211	0.001697	0.020865	NA	Aspn
ENSMUSG00000021414	3.773907	-0.31386	12.19101	0.00048	0.008435	71864	Fam217a
ENSMUSG00000021416	-5.40545	-0.69723	19.7675	8.75E-06	0.000356	69123	Eci3
ENSMUSG00000021457	1.430498	2.952299	15.68266	7.49E-05	0.002033	NA	Syk
ENSMUSG00000021478	5.425632	-0.30556	14.20658	0.000164	0.003788	13488	Drd1a
ENSMUSG00000021490	-7.54423	0.72545	30.57939	3.20E-08	3.65E-06	20505	Slc34a1
ENSMUSG00000021508	1.910292	9.057607	50.51014	1.19E-12	5.10E-10	57266	Cxcl14
ENSMUSG00000021514	-1.69092	1.55856	18.6652	1.56E-05	0.000574	170936	Zfp369
ENSMUSG00000021559	1.163505	5.145428	14.13885	0.00017	0.003889	NA	Dapk1
ENSMUSG00000021579	-4.10241	5.726301	13.30187	0.000265	0.005442	432779	Lrrc14b
ENSMUSG00000021589	1.169332	4.93163	15.46565	8.40E-05	0.002213	73296	Rhobtb3
ENSMUSG00000021678	1.512422	2.195631	8.321693	0.003917	0.037983	14063	F2rl1

ENSMUSG00000021702	1.694985	9.140153	29.96725	4.39E-08	4.66E-06	21828	Thbs4
ENSMUSG00000021760	1.151982	5.142408	17.40398	3.02E-05	0.000988	69590	Gpx8
ENSMUSG00000021763	4.592739	2.159124	24.1602	8.86E-07	5.84E-05	NA	BC067074
ENSMUSG00000021765	1.796949	6.270405	19.90056	8.16E-06	0.00034	14313	Fst
ENSMUSG00000021768	1.798793	5.86008	15.51747	8.17E-05	0.002169	27389	Dusp13
ENSMUSG00000021779	1.038738	4.406347	11.62005	0.000652	0.010582	21834	Thrb
ENSMUSG00000021822	1.019864	5.744847	8.837496	0.002951	0.031187	18792	Plau
ENSMUSG00000021876	1.479283	7.898019	21.67262	3.23E-06	0.00016	NA	Rnase4
ENSMUSG00000021939	1.050081	9.746629	34.471	4.33E-09	6.91E-07	13030	Ctsb
ENSMUSG00000022012	3.182872	2.649802	26.42691	2.74E-07	2.15E-05	239188	Enox1
ENSMUSG00000022018	-1.16326	7.245893	9.356915	0.002221	0.025462	66214	Rgcc
ENSMUSG00000022150	1.229662	5.693913	22.26196	2.38E-06	0.000129	13132	Dab2
ENSMUSG00000022203	1.382577	2.92897	10.40551	0.001256	0.016844	13644	Efs
ENSMUSG00000022261	1.431892	7.817075	27.2423	1.79E-07	1.50E-05	15529	Sdc2
ENSMUSG00000022265	1.613653	6.864097	60.06576	9.17E-15	6.82E-12	11732	Ank
ENSMUSG00000022303	8.27812	0.82281	36.32703	1.67E-09	2.94E-07	75766	Dcstamp
ENSMUSG00000022305	1.178624	3.297501	16.17851	5.76E-05	0.001637	239393	Lrp12
ENSMUSG00000022309	2.493071	4.88686	26.8782	2.17E-07	1.77E-05	11600	Angpt1
ENSMUSG00000022323	-1.41933	3.140691	19.11199	1.23E-05	0.000471	15473	Hrsp12
ENSMUSG00000022332	3.923832	4.939977	88.31675	5.58E-21	8.81E-18	13992	Khdrbs3
ENSMUSG00000022367	2.339453	5.47661	105.4366	9.80E-25	3.48E-21	15117	Has2
ENSMUSG00000022387	1.037158	5.378389	17.59443	2.73E-05	0.000917	223770	Brd1
ENSMUSG00000022440	1.196708	3.390534	9.266277	0.002334	0.02635	72709	C1qtnf6
ENSMUSG00000022442	1.075361	2.765606	12.52082	0.000402	0.007376	319953	Ttll1
ENSMUSG00000022464	2.002829	5.781114	24.65643	6.85E-07	4.73E-05	69354	Slc38a4
ENSMUSG00000022490	-2.51736	4.727909	23.72429	1.11E-06	6.97E-05	58200	Ppp1r1a
ENSMUSG00000022510	2.32851	4.226052	8.849783	0.002931	0.031092	22061	Trp63
ENSMUSG00000022579	-1.33849	6.851036	18.17602	2.01E-05	0.000708	68453	Gpihbp1
ENSMUSG00000022586	-1.38962	0.740863	8.74169	0.00311	0.032481	57248	Ly6i
ENSMUSG00000022613	-6.54613	1.519562	20.54034	5.84E-06	0.000256	56727	Miox
ENSMUSG00000022652	7.078	0.14274	42.61439	6.67E-11	1.72E-08	17450	Morc1
ENSMUSG00000022665	1.931031	7.160851	31.95063	1.58E-08	2.03E-06	NA	Ccdc80
ENSMUSG00000022686	2.121165	1.505551	10.47201	0.001212	0.016434	NA	B3gnt5
ENSMUSG00000022707	1.043416	6.199793	21.09173	4.38E-06	0.000206	74185	Gbe1
ENSMUSG00000022710	1.054495	6.340553	31.46645	2.03E-08	2.43E-06	252870	Usp7
ENSMUSG00000022803	2.234606	5.253857	33.12278	8.65E-09	1.26E-06	64082	Popdc2
ENSMUSG00000022816	1.188844	8.562994	10.92181	0.00095	0.013779	14314	Fstl1
ENSMUSG00000022821	-4.67153	-0.07221	20.68787	5.41E-06	0.00024	15233	Hgd
ENSMUSG00000022828	1.05069	3.485663	7.743194	0.005392	0.047781	74197	Gtf2e1
ENSMUSG00000022836	-1.13614	5.362597	12.58765	0.000388	0.00721	107589	Mylk
ENSMUSG00000022856	1.108364	3.073736	12.87609	0.000333	0.006397	66664	Tmem41a
ENSMUSG00000022965	1.101707	5.975958	30.52714	3.29E-08	3.69E-06	15980	Ifngr2
ENSMUSG00000023224	1.339995	10.16167	11.46773	0.000708	0.011186	12258	Serping1
ENSMUSG00000023232	1.586745	5.093715	7.957693	0.004788	0.044256	NA	Serinc2
ENSMUSG00000023336	-1.11444	4.984023	20.21593	6.92E-06	0.000295	67866	Wfdc1
ENSMUSG00000023886	2.194306	10.94889	72.20114	1.94E-17	2.30E-14	64074	Smoc2
ENSMUSG00000024039	-2.36167	0.501972	8.531654	0.00349	0.035101	12411	Cbs
ENSMUSG00000024044	1.295831	3.891635	7.791221	0.00525	0.047197	13823	Epb4.1l3

ENSMUSG00000024059	2.087177	6.410763	37.32964	9.98E-10	1.92E-07	78785	Clip4
ENSMUSG00000024087	2.774636	5.494157	20.29356	6.64E-06	0.000285	13078	Cyp1b1
ENSMUSG00000024210	2.362291	5.092966	10.14295	0.001449	0.018834	271424	Ip6k3
ENSMUSG00000024253	1.172322	3.006364	14.49727	0.00014	0.003339	213575	Dync2li1
ENSMUSG00000024379	1.921056	3.973025	29.7245	4.98E-08	5.17E-06	53603	Tslp
ENSMUSG00000024395	-1.0628	6.030503	13.73395	0.000211	0.004546	225341	Lims2
ENSMUSG00000024411	7.089637	7.242025	28.96566	7.37E-08	6.99E-06	11829	Aqp4
ENSMUSG00000024420	1.257402	4.557979	28.2825	1.05E-07	9.62E-06	225207	Zfp521
ENSMUSG00000024503	-7.12203	0.244064	30.77654	2.90E-08	3.35E-06	20730	Spink3
ENSMUSG00000024521	1.705794	3.099008	11.82387	0.000585	0.009751	58801	Pmaip1
ENSMUSG00000024548	1.273524	3.802434	11.98079	0.000538	0.009135	NA	Setbp1
ENSMUSG00000024610	2.351373	7.510024	14.6538	0.000129	0.003133	16149	Cd74
ENSMUSG00000024620	1.088625	6.964554	16.28809	5.44E-05	0.001567	18596	Pdgfrb
ENSMUSG00000024663	1.280433	4.816907	21.71787	3.16E-06	0.000158	74760	Rab3il1
ENSMUSG00000024666	1.142306	1.755325	8.324151	0.003912	0.037966	72982	Tmem138
ENSMUSG00000024678	1.240064	6.605102	21.8764	2.91E-06	0.000148	66607	Ms4a4d
ENSMUSG00000024694	-8.76765	1.13891	17.16424	3.43E-05	0.001093	64697	Keg1
ENSMUSG00000024727	2.751701	1.165917	11.194	0.000821	0.012471	225997	Trpm6
ENSMUSG00000024747	-4.87454	1.945668	13.00977	0.00031	0.006105	26358	Aldh1a7
ENSMUSG00000024866	-1.71819	2.819202	25.4732	4.49E-07	3.32E-05	71670	Acy3
ENSMUSG00000024907	-3.02114	3.494969	30.01661	4.28E-08	4.58E-06	14419	Gal
ENSMUSG00000024909	1.097476	5.133292	25.85316	3.68E-07	2.82E-05	58859	Efemp2
ENSMUSG00000024940	1.474309	6.94723	61.79918	3.80E-15	3.18E-12	16998	Ltbp3
ENSMUSG00000024968	-1.87879	0.839905	10.19969	0.001405	0.018448	104383	Rcor2
ENSMUSG00000025007	1.51847	4.153756	23.97446	9.76E-07	6.28E-05	56454	Aldh18a1
ENSMUSG00000025008	1.497122	2.484389	14.86606	0.000115	0.00287	67590	Tctn3
ENSMUSG00000025075	-6.49814	1.625558	43.67937	3.87E-11	1.08E-08	226243	Habp2
ENSMUSG00000025089	1.491788	6.109469	14.32006	0.000154	0.003608	14585	Gfra1
ENSMUSG00000025140	1.08796	2.902678	8.664187	0.003245	0.033429	NA	Pycr1
ENSMUSG00000025170	1.398383	4.131747	10.01028	0.001557	0.01977	217371	Rab40b
ENSMUSG00000025185	1.260657	3.276521	11.13423	0.000847	0.012689	67573	Loxl4
ENSMUSG00000025190	1.176821	7.987079	21.0863	4.39E-06	0.000206	14718	Got1
ENSMUSG00000025265	1.60964	2.462079	9.066118	0.002604	0.028575	14163	Fgd1
ENSMUSG00000025280	-1.0542	3.139125	9.568006	0.00198	0.023333	218832	Polr3a
ENSMUSG00000025324	1.14262	3.679654	21.96973	2.77E-06	0.000142	11982	Atp10a
ENSMUSG00000025350	-1.01109	2.117076	10.58849	0.001138	0.015699	19682	Rdh5
ENSMUSG00000025355	1.465488	4.830352	11.69227	0.000628	0.010285	58223	Mmp19
ENSMUSG00000025425	4.251173	4.124903	43.70826	3.81E-11	1.08E-08	225742	St8sia5
ENSMUSG00000025479	-3.19091	3.285654	11.00936	0.000907	0.013309	13106	Cyp2e1
ENSMUSG00000025500	5.030642	0.850398	9.734324	0.001809	0.021868	72000	Lmntd2
ENSMUSG00000025592	-2.26743	1.255413	10.54616	0.001164	0.015955	93837	Dach2
ENSMUSG00000025757	1.414706	3.387954	13.04466	0.000304	0.006021	18415	Hspa4l
ENSMUSG00000025777	-2.42479	1.954252	7.770913	0.005309	0.04731	14545	Gdap1
ENSMUSG00000025780	1.565393	8.742195	9.904165	0.001649	0.020504	209378	Itih5
ENSMUSG00000025812	2.058971	5.337701	62.22843	3.06E-15	2.72E-12	93742	Pard3
ENSMUSG00000025885	2.404606	3.02545	10.5866	0.001139	0.0157	17919	Myo5b
ENSMUSG00000025887	1.090407	4.196208	24.18763	8.74E-07	5.81E-05	12364	Casp12
ENSMUSG00000025915	1.032868	3.58877	14.17289	0.000167	0.003838	NA	Sgk3

ENSMUSG00000025938	1.597219	5.051407	8.708106	0.003168	0.032824	NA	Slco5a1
ENSMUSG00000025946	5.382451	-0.10919	16.1738	5.78E-05	0.001637	213527	Pth2r
ENSMUSG00000025964	1.034636	3.007855	9.34326	0.002238	0.02557	23792	Adam23
ENSMUSG00000026009	2.825173	-0.12479	7.626635	0.005751	0.04979	54167	Icos
ENSMUSG00000026042	1.720808	8.010875	26.77637	2.28E-07	1.84E-05	12832	Col5a2
ENSMUSG00000026043	2.236539	11.681	16.94958	3.84E-05	0.001192	12825	Col3a1
ENSMUSG00000026069	2.302854	2.174703	11.33033	0.000763	0.011789	17082	Il1rl1
ENSMUSG00000026077	1.74619	3.089719	9.6733	0.00187	0.022404	18143	Npas2
ENSMUSG00000026100	9.425573	5.007036	67.2847	2.35E-16	2.57E-13	17700	Mstn
ENSMUSG00000026189	-1.08637	3.41417	16.26791	5.50E-05	0.001577	111175	Pecr
ENSMUSG00000026200	1.262925	2.916858	11.94232	0.000549	0.009281	74577	Glb1l
ENSMUSG00000026211	1.468413	5.723684	23.77361	1.08E-06	6.85E-05	98733	Obsl1
ENSMUSG00000026228	1.76048	1.77474	7.841338	0.005106	0.046382	15559	Htr2b
ENSMUSG00000026251	5.642838	2.710118	26.88482	2.16E-07	1.77E-05	11447	Chrnd
ENSMUSG00000026253	5.684144	2.445338	9.425859	0.002139	0.024782	11449	Chrng
ENSMUSG00000026389	1.616095	6.028863	26.70225	2.37E-07	1.89E-05	NA	Steap3
ENSMUSG00000026414	4.109082	3.057623	13.95807	0.000187	0.004181	21956	Tnnt2
ENSMUSG00000026430	1.239528	2.269258	10.22338	0.001387	0.018281	54354	Rassf5
ENSMUSG00000026435	2.462775	3.58035	45.75686	1.34E-11	4.33E-09	NA	Slc45a3
ENSMUSG00000026443	3.355843	3.228694	36.42318	1.59E-09	2.86E-07	16980	Lrrn2
ENSMUSG00000026459	7.928463	4.598315	50.1216	1.45E-12	5.87E-10	17928	Myog
ENSMUSG00000026479	1.241739	3.941531	8.767938	0.003066	0.032158	16782	Lamc2
ENSMUSG00000026480	1.849051	3.126371	12.91431	0.000326	0.006319	NA	Ncf2
ENSMUSG00000026495	-1.31825	4.042581	13.76715	0.000207	0.004501	68226	Efcab2
ENSMUSG00000026527	6.557075	0.944342	22.99603	1.62E-06	9.50E-05	24012	Rgs7
ENSMUSG00000026532	-4.34145	0.265242	11.15705	0.000837	0.012587	20739	Spta1
ENSMUSG00000026536	1.857811	7.329331	39.97218	2.58E-10	5.86E-08	381308	Mnda
ENSMUSG00000026564	6.833897	6.025603	50.45713	1.22E-12	5.10E-10	240892	Dusp27
ENSMUSG00000026574	1.630906	8.124562	10.55339	0.00116	0.015908	56429	Dpt
ENSMUSG00000026576	-1.46976	7.356192	14.65504	0.000129	0.003133	11931	Atp1b1
ENSMUSG00000026589	2.567525	3.561326	29.00956	7.20E-08	6.92E-06	NA	Sec16b
ENSMUSG00000026600	1.319661	4.013844	22.22508	2.42E-06	0.000131	20652	Soat1
ENSMUSG00000026646	1.172559	1.995187	11.75717	0.000606	0.00999	64707	Suv39h2
ENSMUSG00000026659	1.053799	2.405044	11.41561	0.000728	0.011396	80915	Dusp12
ENSMUSG00000026683	2.997715	0.220943	11.68107	0.000631	0.010335	NA	Nuf2
ENSMUSG00000026697	1.98115	7.726585	17.52927	2.83E-05	0.000942	17926	Myoc
ENSMUSG00000026712	2.001832	3.769762	10.0166	0.001551	0.019755	17533	Mrc1
ENSMUSG00000026729	-1.1285	0.890754	9.975543	0.001586	0.019966	NA	4930562F07Rik
ENSMUSG00000026748	1.354809	7.959994	31.81222	1.70E-08	2.12E-06	67448	Plxdc2
ENSMUSG00000026806	1.231603	2.720663	11.53963	0.000681	0.010913	227674	Ddx31
ENSMUSG00000026817	1.347526	9.472847	30.3555	3.60E-08	3.97E-06	11636	Ak1
ENSMUSG00000026825	1.743	5.407728	29.68743	5.08E-08	5.23E-06	13429	Dnm1
ENSMUSG00000026833	1.716546	5.35597	55.90001	7.63E-14	4.34E-11	56177	Olfm1
ENSMUSG00000026837	1.599512	7.997483	18.57705	1.63E-05	0.000598	12831	Col5a1
ENSMUSG00000026856	1.2498	2.873581	13.76883	0.000207	0.004501	57170	Dolpp1
ENSMUSG00000026879	1.76952	14.32527	9.61889	0.001926	0.022771	227753	Gsn
ENSMUSG00000026941	2.4253	1.253585	8.52768	0.003498	0.035112	381352	Mamdc4
ENSMUSG00000026950	1.948299	11.83632	31.5421	1.95E-08	2.39E-06	17996	Neb

ENSMUSG00000026958	1.219508	4.338425	39.9585	2.59E-10	5.86E-08	83768	Dpp7
ENSMUSG00000026971	3.488616	5.177983	22.66429	1.93E-06	0.000108	NA	Itgb6
ENSMUSG00000026991	-1.14779	5.057178	20.37022	6.38E-06	0.000275	227937	Pkp4
ENSMUSG00000027022	3.170541	10.63099	14.91751	0.000112	0.002803	241431	Xirp2
ENSMUSG00000027070	-3.81734	-0.48565	12.51861	0.000403	0.007376	14725	Lrp2
ENSMUSG00000027077	6.919549	6.52953	59.55519	1.19E-14	8.05E-12	68678	Smtnl1
ENSMUSG00000027107	2.179007	5.679768	9.295903	0.002297	0.02607	11435	Chrna1
ENSMUSG00000027188	2.293044	5.437467	24.55505	7.22E-07	4.94E-05	210622	Pamr1
ENSMUSG00000027199	-1.13703	5.476916	9.354029	0.002225	0.025464	67092	Gatm
ENSMUSG00000027239	1.466685	3.657626	28.00786	1.21E-07	1.09E-05	NA	Mdk
ENSMUSG00000027298	1.619853	2.032455	10.82157	0.001003	0.01427	22174	Tyro3
ENSMUSG00000027318	1.898895	3.246254	19.03075	1.29E-05	0.000491	110751	Adam33
ENSMUSG00000027339	1.671928	4.203581	28.47812	9.48E-08	8.75E-06	NA	Rassf2
ENSMUSG00000027351	1.001524	6.044232	20.79174	5.12E-06	0.000231	114715	Spred1
ENSMUSG00000027371	-1.4491	3.357806	21.72939	3.14E-06	0.000158	68126	Fahd2a
ENSMUSG00000027386	3.058355	7.270085	60.02581	9.36E-15	6.82E-12	70370	Fbln7
ENSMUSG00000027395	1.19987	3.971296	10.86291	0.000981	0.014053	20017	Polr1b
ENSMUSG00000027399	3.650377	-0.15334	8.278588	0.004012	0.038685	16175	Il1a
ENSMUSG00000027408	2.004008	6.495326	22.88843	1.72E-06	9.93E-05	56264	Cpxm1
ENSMUSG00000027555	2.44993	3.002114	9.720505	0.001822	0.021965	71934	Car13
ENSMUSG00000027562	-1.60503	2.913491	14.25176	0.00016	0.003723	12349	Car2
ENSMUSG00000027661	1.111079	3.268726	9.052302	0.002624	0.028685	170441	Slc2a10
ENSMUSG00000027674	-2.66242	0.046572	10.56182	0.001154	0.015851	58869	Pex5l
ENSMUSG00000027761	-8.3481	2.685117	112.0319	3.52E-26	1.67E-22	67758	Aadac
ENSMUSG00000027797	2.252382	4.980446	12.88972	0.00033	0.006377	13175	Dcll1
ENSMUSG00000027832	1.566871	8.091872	17.02015	3.70E-05	0.001157	19288	Ptx3
ENSMUSG00000027848	1.27084	6.094159	26.33028	2.88E-07	2.25E-05	99543	Olfml3
ENSMUSG00000027864	1.190676	4.720947	10.04107	0.001531	0.01962	19221	Ptgfrn
ENSMUSG00000027868	1.23915	7.128376	19.83638	8.44E-06	0.000349	21384	Tbx15
ENSMUSG00000027883	1.356438	3.788074	21.01147	4.57E-06	0.000212	76123	Gpsm2
ENSMUSG00000027890	1.207455	4.557464	15.12437	0.000101	0.002552	NA	Gstm4
ENSMUSG00000027963	1.2102	4.132059	31.52234	1.97E-08	2.40E-06	58193	Extl2
ENSMUSG00000027978	2.131777	4.715607	19.20173	1.18E-05	0.000456	19142	Prss12
ENSMUSG00000027995	1.137188	3.961529	8.707268	0.003169	0.032824	24088	Tlr2
ENSMUSG00000028024	1.056204	5.083905	10.44033	0.001233	0.016623	13809	Enpep
ENSMUSG00000028047	2.089174	6.328507	24.83845	6.23E-07	4.39E-05	21827	Thbs3
ENSMUSG00000028111	2.394402	6.471811	24.94526	5.90E-07	4.17E-05	13038	Ctsk
ENSMUSG00000028238	6.713916	1.261521	11.21733	0.00081	0.012368	242341	Atp6v0d2
ENSMUSG00000028255	3.988402	0.404936	7.740668	0.005399	0.047789	23844	Clca3
ENSMUSG00000028278	-1.41439	7.22639	17.47282	2.91E-05	0.000962	52187	Rragd
ENSMUSG00000028307	-6.8729	2.062459	43.27781	4.75E-11	1.27E-08	230163	Aldob
ENSMUSG00000028339	1.247052	6.660174	8.131251	0.004351	0.041264	12819	Col15a1
ENSMUSG00000028348	7.24272	6.275016	73.89049	8.26E-18	1.07E-14	68016	Murc
ENSMUSG00000028351	4.526707	-0.68422	8.364817	0.003826	0.037373	56710	Brinp1
ENSMUSG00000028364	1.660856	4.784047	15.88609	6.73E-05	0.001869	21923	Tnc
ENSMUSG00000028369	1.658859	6.171708	10.57107	0.001149	0.015787	64817	Svep1
ENSMUSG00000028373	4.762572	2.351889	51.39479	7.55E-13	3.36E-10	56079	Astn2
ENSMUSG00000028381	1.031394	6.671798	29.55787	5.43E-08	5.55E-06	22234	Ugcg

ENSMUSG00000028600	1.672413	6.89415	17.81128	2.44E-05	0.000833	242608	Podn
ENSMUSG00000028696	1.20693	3.04577	11.04548	0.000889	0.013159	16351	Ipp
ENSMUSG00000028710	1.0282	4.919927	13.92594	0.00019	0.004233	230649	Atpaf1
ENSMUSG00000028716	-2.75662	0.342773	8.594016	0.003373	0.034241	NA	Pdzk1ip1
ENSMUSG00000028804	-2.29991	0.745779	10.05433	0.00152	0.019565	329942	Csmd2
ENSMUSG00000028883	2.277766	2.829372	17.89689	2.33E-05	0.000803	20346	Sema3a
ENSMUSG00000028906	-1.08188	6.516428	22.04611	2.66E-06	0.000139	269587	Epb4.1
ENSMUSG00000028996	-1.46005	5.786619	7.876809	0.005007	0.04569	63954	Rbp7
ENSMUSG00000029050	1.148381	7.05115	14.21385	0.000163	0.00378	20481	Ski
ENSMUSG00000029053	1.240619	2.204025	12.28261	0.000457	0.008139	18762	Prkc
ENSMUSG00000029070	1.172641	7.693992	19.62229	9.44E-06	0.000379	74761	Mxra8
ENSMUSG00000029095	1.330098	5.271025	22.75767	1.84E-06	0.000105	231148	Ablim2
ENSMUSG00000029096	1.523751	8.913321	15.86089	6.82E-05	0.001887	78558	Htra3
ENSMUSG00000029126	1.621744	3.827208	43.29869	4.70E-11	1.27E-08	18196	Nsg1
ENSMUSG00000029158	1.990282	5.545919	7.859114	0.005057	0.045987	75581	Yipf7
ENSMUSG00000029166	-1.07543	4.228032	9.059589	0.002613	0.028615	100732	Mapre3
ENSMUSG00000029179	1.257123	3.000579	7.785304	0.005267	0.04721	78796	Zcchc4
ENSMUSG00000029196	1.194366	4.026405	12.07733	0.00051	0.00881	231151	Tada2b
ENSMUSG00000029231	1.734141	7.886647	19.28123	1.13E-05	0.000442	NA	Pdgfra
ENSMUSG00000029338	1.393919	7.134613	18.73332	1.50E-05	0.000557	71914	Antxr2
ENSMUSG00000029377	3.307384	1.627957	12.2033	0.000477	0.008398	13874	Ereg
ENSMUSG00000029378	2.048773	2.004268	7.769011	0.005315	0.04731	11839	Areg
ENSMUSG00000029414	5.975428	0.332942	24.27958	8.33E-07	5.59E-05	208628	Kntc1
ENSMUSG00000029417	1.010807	4.388472	9.099101	0.002557	0.028264	17329	Cxcl9
ENSMUSG00000029442	1.758921	2.032138	22.66241	1.93E-06	0.000108	269701	Wdr66
ENSMUSG00000029468	1.510145	2.629112	9.34794	0.002232	0.025525	18439	P2rx7
ENSMUSG00000029576	2.134177	3.222159	15.39204	8.74E-05	0.00228	231858	Radil
ENSMUSG00000029641	-1.1943	4.1322	23.60213	1.18E-06	7.23E-05	68895	Ras111a
ENSMUSG00000029661	1.279078	10.59979	10.10075	0.001482	0.019165	12843	Col1a2
ENSMUSG00000029664	1.321487	5.56462	28.02159	1.20E-07	1.09E-05	21789	Tfpi2
ENSMUSG00000029718	1.513217	8.535802	27.26691	1.77E-07	1.50E-05	18542	Pcolce
ENSMUSG00000029754	-2.97254	0.015887	7.889828	0.004971	0.045509	13396	Dlx6
ENSMUSG00000029759	1.170806	4.355745	15.61278	7.77E-05	0.002087	NA	Pon3
ENSMUSG00000029762	2.182595	3.428627	17.30155	3.19E-05	0.001036	14187	Akr1b8
ENSMUSG00000029778	1.94878	4.392494	24.98565	5.78E-07	4.13E-05	11517	Adcyap1r1
ENSMUSG00000029816	3.354925	6.279985	8.223287	0.004136	0.039693	93695	Gpnmb
ENSMUSG00000029832	2.828448	0.75468	11.37648	0.000744	0.011588	18025	Nfe2l3
ENSMUSG00000029913	2.005059	2.126735	29.04987	7.05E-08	6.86E-06	70779	Prdm5
ENSMUSG00000030029	1.04776	5.836206	13.93217	0.00019	0.004232	16206	Lrig1
ENSMUSG00000030098	-1.68446	3.031679	19.6145	9.47E-06	0.000379	NA	Grip2
ENSMUSG00000030116	1.906952	7.941765	22.70632	1.89E-06	0.000107	50530	Mfap5
ENSMUSG00000030137	2.569961	6.50095	12.96457	0.000317	0.006219	53857	Tuba8
ENSMUSG00000030157	-1.07226	4.33106	10.51897	0.001182	0.016127	93694	Clec2d
ENSMUSG00000030244	6.72378	0.236628	10.42811	0.001241	0.016718	232493	Gys2
ENSMUSG00000030246	-1.17452	6.890238	10.07974	0.001499	0.019331	16832	Ldhd
ENSMUSG00000030255	1.081001	6.565615	38.43516	5.66E-10	1.17E-07	16651	Sspn
ENSMUSG00000030256	-1.12946	7.684884	8.592774	0.003375	0.034241	79362	Bhlhe41
ENSMUSG00000030317	-1.45505	6.93341	9.101265	0.002554	0.028253	110595	Timp4

ENSMUSG00000030329	2.283314	0.746935	10.03318	0.001537	0.019648	NA	Pianp
ENSMUSG00000030399	1.503083	12.28277	10.67474	0.001086	0.01516	12715	Ckm
ENSMUSG00000030470	3.050401	6.441795	9.913184	0.001641	0.020461	NA	Csrp3
ENSMUSG00000030513	2.250689	7.393472	14.12572	0.000171	0.00391	18553	Pcsk6
ENSMUSG00000030562	2.014937	4.673925	46.19145	1.07E-11	3.63E-09	50490	Nox4
ENSMUSG00000030638	2.261071	2.273109	33.16617	8.46E-09	1.24E-06	NA	Sh3gl3
ENSMUSG00000030672	1.614033	11.35146	14.06575	0.000177	0.00399	17907	Mylpf
ENSMUSG00000030674	3.158143	2.665245	33.65844	6.57E-09	1.03E-06	67375	Qprt
ENSMUSG00000030711	-1.07862	5.534807	16.35622	5.25E-05	0.00153	20887	Sult1a1
ENSMUSG00000030717	1.257621	5.611671	30.53756	3.27E-08	3.69E-06	56312	Nupr1
ENSMUSG00000030730	1.919604	13.83858	11.14817	0.000841	0.012634	11937	Atp2a1
ENSMUSG00000030771	1.190306	0.149083	9.065376	0.002605	0.028575	1.01E+08	Micalcl
ENSMUSG00000030772	1.704036	4.220309	7.941157	0.004832	0.044517	50781	Dkk3
ENSMUSG00000030780	1.026689	3.037846	13.68453	0.000216	0.004646	233913	BC017158
ENSMUSG00000030787	2.94529	6.439751	11.9378	0.00055	0.009286	114332	Lyve1
ENSMUSG00000030789	8.255133	2.249212	22.733	1.86E-06	0.000105	16411	Itgax
ENSMUSG00000030838	-5.53864	0.904424	18.17451	2.02E-05	0.000708	72088	Ush1c
ENSMUSG00000030935	-4.7612	1.090471	9.781793	0.001762	0.021411	20216	Acsm3
ENSMUSG00000030945	-5.71033	0.786311	17.54057	2.81E-05	0.000939	233799	Acsm2
ENSMUSG00000031090	-1.12424	2.028334	12.33354	0.000445	0.007973	NA	Nadsyn1
ENSMUSG00000031097	1.455399	11.32567	12.95555	0.000319	0.006241	21953	Tnni2
ENSMUSG00000031099	3.00982	2.906972	24.95606	5.87E-07	4.17E-05	93761	Smarca1
ENSMUSG00000031129	1.690016	4.072959	17.47507	2.91E-05	0.000962	331004	Slc9a9
ENSMUSG00000031210	6.842205	1.09213	17.07978	3.58E-05	0.001135	76206	Gpr165
ENSMUSG00000031239	1.315772	8.565029	26.31783	2.90E-07	2.25E-05	16431	Itm2a
ENSMUSG00000031253	1.771733	5.419493	56.94031	4.49E-14	2.78E-11	NA	SrpX2
ENSMUSG00000031312	7.073364	6.978067	54.11373	1.89E-13	9.61E-11	26549	Itgb1bp2
ENSMUSG00000031342	1.143336	6.507266	13.7796	0.000206	0.004501	14758	Gpm6b
ENSMUSG00000031375	1.214796	8.340472	14.07216	0.000176	0.00399	12111	Bgn
ENSMUSG00000031438	1.388119	4.895838	9.483607	0.002073	0.024171	66889	Rnf128
ENSMUSG00000031448	3.062008	4.311408	24.47122	7.54E-07	5.11E-05	234072	Adprhl1
ENSMUSG00000031461	1.479746	9.867902	11.50698	0.000693	0.011046	17930	Myom2
ENSMUSG00000031465	1.290758	3.911077	9.885873	0.001666	0.020618	11601	Angpt2
ENSMUSG00000031488	1.960768	1.790739	11.00443	0.000909	0.013329	75767	Rab11fip1
ENSMUSG00000031519	-1.6559	6.66173	47.25175	6.24E-12	2.32E-09	76294	Asb5
ENSMUSG00000031548	1.595627	5.337716	15.18965	9.72E-05	0.002486	20377	Sfrp1
ENSMUSG00000031595	1.269095	5.302765	14.62598	0.000131	0.00316	68797	Pdgfrl
ENSMUSG00000031725	-6.98653	0.652831	18.12359	2.07E-05	0.000724	234564	Ces1f
ENSMUSG00000031740	1.845961	9.61684	21.48766	3.56E-06	0.000174	17390	Mmp2
ENSMUSG00000031779	8.746544	-0.16569	46.76161	8.02E-12	2.78E-09	20299	Ccl22
ENSMUSG00000031780	7.777368	-0.9718	32.48428	1.20E-08	1.68E-06	20295	Ccl17
ENSMUSG00000031787	1.338291	3.097429	13.00546	0.000311	0.00611	74187	Katnb1
ENSMUSG00000031934	2.084445	4.582085	52.92469	3.47E-13	1.70E-10	55991	Panx1
ENSMUSG00000031963	1.850755	6.339513	44.78403	2.20E-11	6.66E-09	73230	Bmper
ENSMUSG00000031972	1.79248	13.73823	20.65331	5.50E-06	0.000244	11459	Acta1
ENSMUSG00000032024	1.785477	5.621618	24.09732	9.16E-07	6.00E-05	71566	Clmp
ENSMUSG00000032033	4.562549	2.451045	13.11799	0.000292	0.005851	12023	Barx2
ENSMUSG00000032060	-1.29397	8.976484	17.3167	3.16E-05	0.001032	12955	Cryab

ENSMUSG00000032062	-1.83027	1.679673	10.9052	0.000959	0.013853	66952	2310030G06Rik
ENSMUSG00000032085	-1.0805	5.366516	9.073658	0.002593	0.028554	21345	Tagln
ENSMUSG00000032122	3.02199	4.239818	11.27621	0.000785	0.012072	56857	Slc37a2
ENSMUSG00000032179	1.585227	5.686948	7.98322	0.004721	0.043863	12160	Bmp5
ENSMUSG00000032181	1.557894	4.462474	14.83011	0.000118	0.00291	20255	Scg3
ENSMUSG00000032184	1.124255	5.085526	29.82488	4.73E-08	4.95E-06	70082	Lysmd2
ENSMUSG00000032221	-2.32866	0.257573	7.889965	0.004971	0.045509	17427	Mns1
ENSMUSG00000032246	-1.52994	2.108663	7.903146	0.004935	0.045286	75600	Calml4
ENSMUSG00000032265	1.707684	5.663451	30.47253	3.39E-08	3.76E-06	212943	Fam46a
ENSMUSG00000032278	-2.62581	-0.76149	7.737517	0.005409	0.047791	74090	Paqr5
ENSMUSG00000032315	-3.69057	2.230556	20.37017	6.38E-06	0.000275	13076	Cyp1a1
ENSMUSG00000032332	1.385844	4.399218	16.33773	5.30E-05	0.001535	NA	Col12a1
ENSMUSG00000032334	2.002267	6.224735	36.61427	1.44E-09	2.69E-07	16949	Loxl1
ENSMUSG00000032375	1.335496	3.597957	16.21783	5.65E-05	0.001611	208117	Aph1b
ENSMUSG00000032419	1.217961	2.718839	8.190788	0.00421	0.040166	76365	Tbx18
ENSMUSG00000032440	1.224762	7.512373	22.26653	2.37E-06	0.000129	21813	Tgfbr2
ENSMUSG00000032487	1.381002	8.172279	12.94607	0.000321	0.006255	19225	Ptgs2
ENSMUSG00000032495	-1.20065	5.782765	8.708357	0.003168	0.032824	74249	Lrrc2
ENSMUSG00000032500	-2.46658	0.587962	9.321925	0.002264	0.025766	245038	Dcll3
ENSMUSG00000032503	2.164455	4.156523	10.74411	0.001046	0.014771	74100	Arpp21
ENSMUSG00000032523	2.038162	6.134178	10.61661	0.001121	0.015508	74770	Hhatl
ENSMUSG00000032584	2.557303	2.451631	32.42539	1.24E-08	1.69E-06	19882	Mst1r
ENSMUSG00000032758	-6.56457	3.7595	20.95785	4.69E-06	0.000216	16483	Kap
ENSMUSG00000032812	1.230071	5.246209	16.5092	4.84E-05	0.001429	69710	Arap1
ENSMUSG00000032826	1.455021	5.932338	23.07218	1.56E-06	9.29E-05	109676	Ank2
ENSMUSG00000032827	-1.31235	3.060523	13.20066	0.00028	0.005687	243725	Ppp1r9a
ENSMUSG00000032925	1.219387	5.978433	13.44933	0.000245	0.005112	223272	Itgbl1
ENSMUSG00000032946	-1.32811	4.104576	13.39551	0.000252	0.005222	NA	Rasgrp2
ENSMUSG00000032978	-5.6636	-0.13253	15.18766	9.73E-05	0.002486	14916	Guca2b
ENSMUSG00000032997	1.224672	5.401738	27.64894	1.45E-07	1.25E-05	74241	Chpf
ENSMUSG00000033044	3.580998	6.56954	17.80438	2.45E-05	0.000833	68460	Dhrs7c
ENSMUSG00000033182	4.131954	5.37464	7.998505	0.004682	0.043638	74589	Kbtbd12
ENSMUSG00000033544	1.484643	6.862946	11.54508	0.000679	0.010893	72713	Angptl1
ENSMUSG00000033585	1.111108	5.663239	19.53965	9.85E-06	0.00039	17984	Ndn
ENSMUSG00000033644	3.005874	0.920875	11.92226	0.000555	0.009337	57746	Piwil2
ENSMUSG00000033737	-2.16781	0.396734	12.14051	0.000493	0.00859	333564	Fndc3c1
ENSMUSG00000034040	1.022341	3.733923	7.891748	0.004966	0.045509	212996	Wbscr17
ENSMUSG00000034116	2.553271	1.218083	7.697963	0.005528	0.04845	22324	Vav1
ENSMUSG00000034205	1.018818	6.027964	9.447995	0.002114	0.024524	1.01E+08	Loxl2
ENSMUSG00000034295	-1.47086	4.946609	11.64567	0.000644	0.010485	225288	Fhod3
ENSMUSG00000034371	-1.69775	1.845511	14.10384	0.000173	0.003941	225913	Dak
ENSMUSG00000034435	2.705262	1.826749	15.45212	8.46E-05	0.002221	238257	Tmem30b
ENSMUSG00000034460	1.94418	4.401142	26.94595	2.09E-07	1.73E-05	20474	Six4
ENSMUSG00000034463	1.218735	6.204394	9.046547	0.002632	0.028753	219151	Scara3
ENSMUSG00000034591	1.267563	4.011709	13.84542	0.000198	0.004384	338365	Slc41a2
ENSMUSG00000034656	1.308084	3.686618	13.92887	0.00019	0.004233	12286	Cacna1a
ENSMUSG00000034675	1.111109	4.617285	10.72843	0.001055	0.014858	56320	Dbn1
ENSMUSG00000034796	3.457461	1.124565	24.69507	6.72E-07	4.66E-05	102278	Cpne7

ENSMUSG00000034800	2.684641	1.933314	20.25292	6.78E-06	0.00029	NA	Zfp661
ENSMUSG00000034839	1.31602	3.590467	22.59126	2.00E-06	0.000111	67557	Larp6
ENSMUSG00000034854	1.472265	2.988341	16.07541	6.09E-05	0.001718	73822	Mfsd12
ENSMUSG00000034936	-1.22275	5.033201	18.06676	2.13E-05	0.00074	80981	Arl4d
ENSMUSG00000035062	1.151966	1.882329	8.601538	0.003359	0.034145	245522	Zc4h2
ENSMUSG00000035107	1.220963	5.849168	23.44302	1.29E-06	7.72E-05	73379	Dcbld2
ENSMUSG00000035158	1.202936	4.016157	10.6859	0.00108	0.015099	17342	Mitf
ENSMUSG00000035258	1.161816	6.476358	9.705753	0.001837	0.022049	320712	Abi3bp
ENSMUSG00000035279	1.754241	6.467124	22.08958	2.60E-06	0.000138	269855	Ssc5d
ENSMUSG00000035357	1.017393	6.015561	10.84619	0.00099	0.01415	55983	Pdzn3
ENSMUSG00000035373	1.562393	7.909485	11.46181	0.00071	0.01119	20306	Ccl7
ENSMUSG00000035456	2.050384	1.99193	19.13873	1.22E-05	0.000466	77630	Prdm8
ENSMUSG00000035493	1.328541	7.616401	13.31562	0.000263	0.00541	21810	Tgfb1
ENSMUSG00000035547	1.03142	4.047538	11.18769	0.000823	0.0125	12337	Capn5
ENSMUSG00000035735	2.378811	2.728326	13.37206	0.000255	0.005273	269060	Dagla
ENSMUSG00000035772	1.207962	4.02917	17.45116	2.95E-05	0.000971	118451	Mrps2
ENSMUSG00000035783	-1.38363	6.318643	20.47428	6.04E-06	0.000263	11475	Acta2
ENSMUSG00000035799	1.565121	3.405699	13.45041	0.000245	0.005112	22160	Twist1
ENSMUSG00000035829	-2.91634	1.50731	9.793695	0.001751	0.021331	241289	Ppp1r26
ENSMUSG00000035849	-2.13309	2.463664	10.14546	0.001447	0.018825	268481	Krt222
ENSMUSG00000035914	2.140132	2.737825	36.25762	1.73E-09	3.00E-07	102657	Cd276
ENSMUSG00000036095	-1.45757	1.276276	9.915636	0.001639	0.020461	217480	Dgkb
ENSMUSG00000036103	1.795148	7.223695	40.50925	1.96E-10	4.64E-08	140792	Colec12
ENSMUSG00000036131	2.688483	1.994368	30.2341	3.83E-08	4.16E-06	385354	Frmd7
ENSMUSG00000036198	5.643989	0.310556	15.74394	7.25E-05	0.00198	75404	Arhgap36
ENSMUSG00000036214	-1.46972	2.940317	16.96241	3.81E-05	0.001187	76416	Znrd1as
ENSMUSG00000036249	1.085108	2.833991	10.64038	0.001106	0.015339	NA	Rbm43
ENSMUSG00000036306	-1.33191	1.733667	8.439428	0.003672	0.036294	NA	Lzts1
ENSMUSG00000036334	2.543291	5.0605	28.96569	7.37E-08	6.99E-06	NA	Igsf10
ENSMUSG00000036437	-1.82239	2.702999	11.62002	0.000652	0.010582	18166	Npy1r
ENSMUSG00000036446	2.268127	10.25838	24.63358	6.93E-07	4.76E-05	17022	Lum
ENSMUSG00000036534	1.474689	3.265857	38.12566	6.63E-10	1.33E-07	234595	Slc38a7
ENSMUSG00000036545	1.396712	6.770469	21.66124	3.25E-06	0.00016	216725	Adamts2
ENSMUSG00000036564	1.339181	4.077193	13.24139	0.000274	0.005588	234593	Ndr4
ENSMUSG00000036594	2.296839	5.81675	12.21465	0.000474	0.008368	14960	H2-Aa
ENSMUSG00000036699	4.873884	-0.00215	10.03121	0.001539	0.019652	NA	Zcchc12
ENSMUSG00000036745	-1.03117	6.091168	10.20394	0.001401	0.018423	70892	Ttll7
ENSMUSG00000036814	-5.93232	1.528143	22.28449	2.35E-06	0.000129	102680	Slc6a20a
ENSMUSG00000036815	-1.24915	1.432248	8.467017	0.003616	0.03604	269109	Dpp10
ENSMUSG00000036832	7.764012	2.676726	44.68331	2.32E-11	6.86E-09	65086	Lpar3
ENSMUSG00000036960	2.767806	0.437781	9.664692	0.001878	0.02244	229933	Clca5
ENSMUSG00000036995	1.323779	4.431873	28.89172	7.65E-08	7.21E-06	230837	Asap3
ENSMUSG00000037005	2.140912	2.820845	10.6292	0.001113	0.015417	170745	Xpnpep2
ENSMUSG00000037139	-2.78282	6.137854	7.839305	0.005112	0.046405	242702	Myom3
ENSMUSG00000037166	-1.63311	1.308172	17.19916	3.37E-05	0.001078	68458	Ppp1r14a
ENSMUSG00000037206	1.801801	7.875653	16.91874	3.90E-05	0.001199	NA	Islr
ENSMUSG00000037254	1.951309	3.142532	19.21669	1.17E-05	0.000455	16425	Itih2
ENSMUSG00000037280	3.806731	0.389592	8.618048	0.003328	0.033963	NA	Galnt6

ENSMUSG00000037370	1.256012	5.091003	16.18059	5.76E-05	0.001637	NA	Enpp1
ENSMUSG00000037375	1.958658	2.774019	32.5431	1.17E-08	1.64E-06	226861	Hhat
ENSMUSG00000037406	2.601353	1.420771	12.88926	0.00033	0.006377	330723	Htra4
ENSMUSG00000037426	-1.59084	3.333681	17.15711	3.44E-05	0.001095	277854	Depdc5
ENSMUSG00000037490	-1.16913	3.319161	12.15312	0.00049	0.008553	353169	Slc2a12
ENSMUSG00000037624	1.787708	2.39547	15.63352	7.69E-05	0.002071	16526	Kcnk2
ENSMUSG00000037649	1.665259	2.526208	12.86798	0.000334	0.006416	14998	H2-DMa
ENSMUSG00000037679	-1.27374	3.451658	14.94116	0.000111	0.002773	70435	Inf2
ENSMUSG00000037759	3.415281	-0.04112	8.976126	0.002735	0.029557	19217	Ptger2
ENSMUSG00000037816	1.238827	2.52177	11.47067	0.000707	0.011186	109082	Fbxw17
ENSMUSG00000037818	7.354543	3.624964	32.08391	1.48E-08	1.91E-06	NA	3110057O12Rik
ENSMUSG00000037849	6.753718	0.032534	16.92504	3.89E-05	0.001197	NA	Gm4955
ENSMUSG00000037902	1.182366	5.379123	8.211343	0.004163	0.039821	19261	Sirpa
ENSMUSG00000037905	1.361494	2.699316	22.77881	1.82E-06	0.000104	76809	Bri3bp
ENSMUSG00000037977	5.294741	4.374849	19.18111	1.19E-05	0.000458	235599	6430571L13Rik
ENSMUSG00000037989	-1.92796	5.970024	12.56912	0.000392	0.007273	75607	Wnk2
ENSMUSG00000038014	1.180947	7.055462	52.73092	3.83E-13	1.81E-10	218236	Fam120a
ENSMUSG00000038034	1.052836	5.403101	29.93058	4.48E-08	4.72E-06	140559	Igsf8
ENSMUSG00000038046	1.320846	3.376701	17.48366	2.90E-05	0.000961	67390	Rnmtl1
ENSMUSG00000038059	1.175163	5.151283	20.48287	6.02E-06	0.000263	106878	Smim3
ENSMUSG00000038072	1.052081	4.507643	11.8098	0.000589	0.009814	NA	Galnt11
ENSMUSG00000038112	2.083503	5.370238	9.510536	0.002043	0.023918	NA	AW551984
ENSMUSG00000038146	-1.16067	4.755577	8.369785	0.003815	0.037296	18131	Notch3
ENSMUSG00000038239	-1.71748	8.960729	9.486969	0.002069	0.024147	15464	Hrc
ENSMUSG00000038259	5.023053	0.777741	9.179707	0.002447	0.02729	14563	Gdf5
ENSMUSG00000038298	-4.49857	1.86172	15.89609	6.69E-05	0.001863	NA	Pdzk1
ENSMUSG00000038319	-2.53435	1.374759	12.7582	0.000354	0.006714	16511	Kcnh2
ENSMUSG00000038384	-1.23293	3.682168	19.00954	1.30E-05	0.000495	208043	Setd1b
ENSMUSG00000038453	-4.35523	1.516038	23.64686	1.16E-06	7.10E-05	56013	Srcin1
ENSMUSG00000038456	1.053955	4.924584	20.79988	5.10E-06	0.000231	209773	Dennd2a
ENSMUSG00000038463	1.083178	5.493954	9.640277	0.001904	0.022617	320078	Olfml2b
ENSMUSG00000038496	4.265152	-0.33198	10.27808	0.001346	0.017829	80721	Slc19a3
ENSMUSG00000038521	1.592849	8.908562	19.58274	9.63E-06	0.000383	NA	C1s1
ENSMUSG00000038522	-4.13884	1.553269	25.36597	4.74E-07	3.49E-05	215929	Al317395
ENSMUSG00000038528	-2.24108	0.92492	8.036403	0.004585	0.042818	215928	BC021785
ENSMUSG00000038546	1.679036	5.923833	83.63607	5.95E-20	8.46E-17	56705	Ranbp9
ENSMUSG00000038552	1.047709	3.907172	19.89434	8.18E-06	0.00034	NA	Fndc4
ENSMUSG00000038569	-1.3311	1.356173	7.641655	0.005704	0.049589	231724	Rad9b
ENSMUSG00000038583	-1.44952	2.251817	20.85021	4.97E-06	0.000226	NA	Pln
ENSMUSG00000038663	6.793801	7.210628	47.21221	6.37E-12	2.32E-09	244091	Fsd2
ENSMUSG00000038668	1.214158	6.249166	17.61235	2.71E-05	0.000911	14745	Lpar1
ENSMUSG00000038670	1.688825	11.04951	9.315335	0.002272	0.025838	233199	Mybpc2
ENSMUSG00000038871	-1.33984	5.732913	26.56686	2.55E-07	2.01E-05	12183	Bpgm
ENSMUSG00000038991	1.522321	7.200112	119.832	6.89E-28	4.90E-24	105245	Txndc5
ENSMUSG00000039001	-1.05247	6.306751	13.07203	0.0003	0.005979	66481	Rps21
ENSMUSG00000039007	1.522912	7.052677	35.20941	2.96E-09	4.90E-07	54381	Cpq
ENSMUSG00000039065	-1.15258	3.103751	8.12956	0.004355	0.041269	68073	Fam173b
ENSMUSG00000039086	-1.18673	2.329877	10.67745	0.001084	0.015153	269397	Ss1811

ENSMUSG00000039108	-1.22806	4.947787	11.61425	0.000654	0.010603	241846	Lsm14b
ENSMUSG00000039145	1.905573	3.33577	17.01244	3.71E-05	0.001158	227541	Camk1d
ENSMUSG00000039153	1.496419	2.078355	8.855301	0.002922	0.031034	12393	Runx2
ENSMUSG00000039206	1.783939	4.640833	20.2879	6.66E-06	0.000285	231871	Daglb
ENSMUSG00000039208	1.242576	5.981296	12.77415	0.000351	0.006674	210029	Metrl
ENSMUSG00000039239	1.476341	5.572378	31.85324	1.66E-08	2.11E-06	21808	Tgfb2
ENSMUSG00000039307	-1.02279	3.237098	10.70404	0.001069	0.014996	238023	Hexdc
ENSMUSG00000039361	-1.81661	4.727839	29.3098	6.17E-08	6.18E-06	233489	Picalm
ENSMUSG00000039376	1.640318	7.318545	20.05552	7.52E-06	0.000319	68760	Synpo2l
ENSMUSG00000039405	1.029832	4.361578	20.57082	5.75E-06	0.000253	76453	Prss23
ENSMUSG00000039419	4.620251	2.537086	10.39999	0.00126	0.016878	66797	Cntnap2
ENSMUSG00000039438	-5.30389	-0.27365	25.65596	4.08E-07	3.07E-05	192653	Ttc36
ENSMUSG00000039450	-1.53093	2.144691	22.06603	2.63E-06	0.000138	67880	Dcxr
ENSMUSG00000039476	2.466203	3.96632	65.8472	4.87E-16	4.95E-13	20204	Prrx2
ENSMUSG00000039497	1.756943	4.984322	22.3048	2.33E-06	0.000128	212898	Dse
ENSMUSG00000039678	-1.02811	3.340068	9.994271	0.00157	0.019866	70296	Tbc1d13
ENSMUSG00000039699	1.550347	1.036025	15.37477	8.82E-05	0.002292	74481	Batf2
ENSMUSG00000039789	1.01939	3.114106	10.75828	0.001038	0.014678	71063	Zfp597
ENSMUSG00000039824	-1.81426	3.138963	8.332104	0.003895	0.03787	216459	Myl6b
ENSMUSG00000039883	1.497038	4.465328	9.538564	0.002012	0.023613	74511	Lrrc17
ENSMUSG00000039899	2.017731	9.860501	22.66249	1.93E-06	0.000108	14190	Fgl2
ENSMUSG00000039976	1.677024	4.497286	7.707181	0.0055	0.048352	207592	Tbc1d16
ENSMUSG00000040084	2.120162	0.77468	11.5762	0.000668	0.010773	12236	Bub1b
ENSMUSG00000040118	1.136526	8.170847	21.45029	3.63E-06	0.000176	12293	Cacna2d1
ENSMUSG00000040152	1.457632	10.15568	16.29363	5.42E-05	0.001565	21825	Thbs1
ENSMUSG00000040254	1.690844	2.906826	8.536566	0.003481	0.035065	108151	Sema3d
ENSMUSG00000040329	2.516766	2.117603	16.94023	3.86E-05	0.001193	16196	Il7
ENSMUSG00000040485	-3.43785	0.711321	10.21739	0.001391	0.018323	240899	Lrrc52
ENSMUSG00000040599	1.044602	3.365069	14.26775	0.000159	0.003697	67139	Mis12
ENSMUSG00000040613	1.221634	2.680854	10.80223	0.001014	0.014406	NA	Apobec1
ENSMUSG00000040690	1.352687	5.495138	20.7099	5.34E-06	0.000239	107581	Col16a1
ENSMUSG00000040734	-1.16649	3.046845	18.69031	1.54E-05	0.000568	333654	Ppp1r13l
ENSMUSG00000040740	-3.7993	3.229479	16.43918	5.02E-05	0.001476	384071	Slc25a34
ENSMUSG00000040794	-1.51995	1.138748	9.62021	0.001924	0.022771	67445	C1qtnf4
ENSMUSG00000040811	-1.09392	3.403238	11.69894	0.000625	0.01026	72205	Eml2
ENSMUSG00000040828	6.329678	1.095565	21.65675	3.26E-06	0.00016	106757	Catsperd
ENSMUSG00000040841	1.847379	1.940337	21.56848	3.41E-06	0.000167	20475	Six5
ENSMUSG00000040855	2.381157	3.184303	23.81598	1.06E-06	6.73E-05	194590	Reps2
ENSMUSG00000040856	-1.9932	3.085758	10.0392	0.001532	0.01962	13386	Dlk1
ENSMUSG00000040867	2.178205	1.468271	15.73449	7.29E-05	0.001986	NA	Begain
ENSMUSG00000040950	3.556559	2.672296	40.93931	1.57E-10	3.85E-08	216864	Mgl2
ENSMUSG00000040964	1.046921	5.404977	12.67038	0.000371	0.006971	72754	Arhgef10l
ENSMUSG00000041012	-1.21127	2.813028	10.74294	0.001047	0.014771	70031	Cmtm8
ENSMUSG00000041052	-6.23996	-0.29124	15.77745	7.12E-05	0.001949	74087	Slc7a13
ENSMUSG00000041272	2.004426	1.58653	19.19441	1.18E-05	0.000456	252838	Tox
ENSMUSG00000041324	1.656846	4.451922	10.94764	0.000937	0.013645	NA	Inhba
ENSMUSG00000041347	-1.27978	1.712972	13.67176	0.000218	0.004653	12061	Bdkrb1
ENSMUSG00000041423	-1.86445	0.868754	8.712158	0.003161	0.032824	68957	Paqr6

ENSMUSG00000041444	1.104051	3.602272	13.64842	0.00022	0.00469	330914	Arhgap32
ENSMUSG00000041476	3.3352	7.385989	43.67735	3.87E-11	1.08E-08	66106	Smpx
ENSMUSG00000041482	2.359993	2.777597	19.9455	7.97E-06	0.000334	667742	Piezo2
ENSMUSG00000041548	1.458131	8.57351	34.11931	5.18E-09	8.19E-07	80888	Hspb8
ENSMUSG00000041608	5.54218	3.9228	12.52171	0.000402	0.007376	215446	Entpd3
ENSMUSG00000041617	1.969198	0.878987	14.91165	0.000113	0.002807	72315	Ccdc74a
ENSMUSG00000041625	1.466134	2.389809	10.99684	0.000913	0.013364	223267	Ggact
ENSMUSG00000041642	-2.27033	0.375804	8.612291	0.003339	0.033997	16565	Kif21b
ENSMUSG00000041654	1.533169	2.627167	23.69893	1.13E-06	7.00E-05	69806	Slc39a11
ENSMUSG00000041700	5.656916	2.64497	15.1675	9.84E-05	0.002503	237091	Lhfp11
ENSMUSG00000041757	1.692348	5.431354	17.23571	3.30E-05	0.001063	240753	Plekha6
ENSMUSG00000041797	1.697231	6.55099	13.76682	0.000207	0.004501	217262	Abca9
ENSMUSG00000041889	1.18911	6.258062	11.90406	0.00056	0.009406	77552	Shisa4
ENSMUSG00000041912	3.051332	1.704789	11.1779	0.000828	0.012512	NA	Tdrkh
ENSMUSG00000041945	8.164251	0.309933	31.48748	2.01E-08	2.42E-06	211798	Mfsd9
ENSMUSG00000042045	3.713626	7.399247	14.83682	0.000117	0.002905	66402	Sln
ENSMUSG00000042082	1.594538	5.250593	40.64415	1.83E-10	4.40E-08	11881	Arsb
ENSMUSG00000042104	1.153531	3.866717	21.98873	2.74E-06	0.000142	66435	Uggt2
ENSMUSG00000042182	1.223874	2.107105	8.323764	0.003913	0.037966	320705	Bend6
ENSMUSG00000042195	5.745249	-0.26228	9.138554	0.002503	0.027769	72022	Slc35f2
ENSMUSG00000042216	2.316519	2.04457	19.17896	1.19E-05	0.000458	52850	Sgsm1
ENSMUSG00000042246	4.94476	3.541344	103.1632	3.09E-24	8.78E-21	209760	Tmc7
ENSMUSG00000042254	2.553623	9.704697	16.74322	4.28E-05	0.00129	214425	Cilp
ENSMUSG00000042286	1.242	5.642405	10.89538	0.000964	0.013906	192187	Stab1
ENSMUSG00000042359	1.442131	5.092318	12.3572	0.000439	0.00794	99031	Osbpl6
ENSMUSG00000042369	-1.26309	3.769111	9.582753	0.001964	0.023166	241490	Rbm45
ENSMUSG00000042429	-3.33247	2.682432	8.181386	0.004232	0.040293	11539	Adora1
ENSMUSG00000042447	1.095307	4.088441	18.23109	1.96E-05	0.000694	252875	Mios
ENSMUSG00000042453	2.160992	4.935996	26.72594	2.34E-07	1.87E-05	19699	Reln
ENSMUSG00000042473	1.194407	3.311546	12.91889	0.000325	0.006312	245638	Tbc1d8b
ENSMUSG00000042476	-1.3829	6.372192	11.427	0.000724	0.011377	18670	Abcb4
ENSMUSG00000042662	-3.22402	0.639385	11.25571	0.000794	0.012167	252864	Dusp15
ENSMUSG00000042745	-1.14328	6.474651	14.09356	0.000174	0.003952	15901	Id1
ENSMUSG00000042804	1.889374	5.701418	25.05563	5.57E-07	4.00E-05	100129	Gpr153
ENSMUSG00000042810	2.503606	4.019977	30.15736	3.98E-08	4.29E-06	77827	Krba1
ENSMUSG00000042817	4.243834	0.039492	35.8334	2.15E-09	3.68E-07	14255	Flt3
ENSMUSG00000042842	2.296913	0.988441	7.673045	0.005605	0.048973	20708	Serpnb6b
ENSMUSG00000042851	-1.0344	3.250987	9.882271	0.001669	0.020641	78751	Zc3h6
ENSMUSG00000042873	-1.6845	0.882537	7.773858	0.005301	0.04731	269788	Lhfp14
ENSMUSG00000042895	4.051996	7.021861	32.12896	1.44E-08	1.88E-06	223513	Abra
ENSMUSG00000042903	-1.2972	6.322645	11.55851	0.000674	0.010851	54601	Foxo4
ENSMUSG00000042978	1.781738	4.816339	55.07026	1.16E-13	6.36E-11	104175	Sbk1
ENSMUSG00000043017	1.162879	3.672942	14.33892	0.000153	0.003578	19222	Ptgir
ENSMUSG00000043140	1.627187	3.612255	12.97935	0.000315	0.006188	66690	Tmem186
ENSMUSG00000043366	-2.1018	1.752867	8.21361	0.004158	0.03981	NA	Olf1r78
ENSMUSG00000043448	2.93588	1.634662	54.82732	1.32E-13	6.93E-11	NA	Gjc2
ENSMUSG00000043496	1.410998	4.93269	10.83678	0.000995	0.014196	66873	Tril
ENSMUSG00000043518	1.571702	4.186368	32.44289	1.23E-08	1.69E-06	NA	Rai2

ENSMUSG00000043557	6.217129	3.343697	42.48553	7.12E-11	1.81E-08	74762	Mdga1
ENSMUSG00000043613	4.102181	7.044292	38.59244	5.22E-10	1.09E-07	17392	Mmp3
ENSMUSG00000043719	2.057555	5.428276	18.89743	1.38E-05	0.000518	245026	Col6a6
ENSMUSG00000043924	-1.19322	2.673255	7.74723	0.005379	0.047764	NA	Ncmap
ENSMUSG00000043943	1.258982	5.552673	15.59729	7.84E-05	0.002099	72560	Naalad2
ENSMUSG00000044017	1.549757	5.665589	11.8504	0.000576	0.009636	243277	Gpr133
ENSMUSG00000044022	3.129954	0.992927	27.76234	1.37E-07	1.22E-05	93892	Pcdhb21
ENSMUSG00000044086	2.388365	6.625539	21.94761	2.80E-06	0.000143	320502	Lmod3
ENSMUSG00000044534	3.161877	3.285965	24.81816	6.30E-07	4.41E-05	59289	Ackr2
ENSMUSG00000044548	1.175217	5.732638	11.50144	0.000695	0.011046	59036	Dact1
ENSMUSG00000044629	1.056291	3.557133	11.55416	0.000676	0.010865	380686	Cnrip1
ENSMUSG00000044646	1.208144	2.942288	11.10776	0.00086	0.012818	207259	Zbtb7c
ENSMUSG00000044749	1.894437	4.888249	10.20611	0.0014	0.018418	76184	Abca6
ENSMUSG00000044770	2.124279	2.889968	23.49813	1.25E-06	7.54E-05	268297	Scml4
ENSMUSG00000044807	1.218495	2.745487	8.931084	0.002804	0.030051	30944	Zfp354c
ENSMUSG00000044881	1.496598	1.89738	9.157405	0.002477	0.027536	68185	Coa4
ENSMUSG00000044938	1.617364	7.953947	11.77103	0.000602	0.009946	244923	Klhl31
ENSMUSG00000045608	6.739004	0.223795	13.848	0.000198	0.004384	223843	Dbx2
ENSMUSG00000045725	-1.86608	1.104823	10.98097	0.000921	0.013457	78004	Prr15
ENSMUSG00000045932	1.07981	4.857264	9.360074	0.002218	0.025438	15958	Ifit2
ENSMUSG00000046031	3.32035	0.015191	14.7428	0.000123	0.003017	215900	Fam26f
ENSMUSG00000046152	1.533334	3.591736	9.911192	0.001643	0.020461	171167	Fut10
ENSMUSG00000046318	1.671837	2.74751	16.1635	5.81E-05	0.001643	320924	Ccbe1
ENSMUSG00000046441	1.461196	2.692541	13.12265	0.000292	0.005845	234728	Cmtr2
ENSMUSG00000046480	-2.2287	7.970515	18.78731	1.46E-05	0.000544	399548	Scn4b
ENSMUSG00000046491	1.138832	2.9732	12.18974	0.000481	0.008435	69183	C1qtnf2
ENSMUSG00000046658	1.751149	2.629086	16.02607	6.25E-05	0.001756	54201	Zfp316
ENSMUSG00000046694	-1.78825	1.748406	11.46462	0.000709	0.011186	100342	Fam46b
ENSMUSG00000046982	1.085727	5.067438	18.55866	1.65E-05	0.000602	110796	Tshz1
ENSMUSG00000047181	-1.04987	1.807273	8.452395	0.003646	0.036161	217125	Samd14
ENSMUSG00000047343	4.761338	3.962052	14.74533	0.000123	0.003017	433294	Mettl21c
ENSMUSG00000047485	-3.62266	3.201261	13.74862	0.000209	0.004524	245683	Klhl34
ENSMUSG00000047497	2.54169	3.143014	31.0975	2.45E-08	2.90E-06	239337	Adamts12
ENSMUSG00000047583	1.541143	1.552743	8.861644	0.002912	0.030993	209584	Tyw3
ENSMUSG00000047712	1.380751	4.287808	14.6178	0.000132	0.003168	338362	Ust
ENSMUSG00000047746	3.227091	7.628512	17.03879	3.66E-05	0.00115	NA	Fbxo40
ENSMUSG00000047793	1.35627	5.923287	21.09838	4.36E-06	0.000206	208777	Sned1
ENSMUSG00000047797	-2.09988	0.737478	8.232813	0.004114	0.039539	14618	Gjb1
ENSMUSG00000047842	4.836059	-0.11203	8.767988	0.003066	0.032158	68203	Diras2
ENSMUSG00000047963	1.961049	5.28727	9.938233	0.001619	0.020304	52331	Stbd1
ENSMUSG00000048126	2.315802	8.930277	33.51218	7.08E-09	1.08E-06	12835	Col6a3
ENSMUSG00000048138	1.182811	2.813008	11.91553	0.000557	0.00936	226049	Dmrt2
ENSMUSG00000048332	1.092769	6.994336	16.68536	4.41E-05	0.001327	108927	Lhfp
ENSMUSG00000048387	2.103815	3.7248	34.60572	4.04E-09	6.53E-07	23967	Osr1
ENSMUSG00000048388	1.680534	4.839411	17.77678	2.48E-05	0.000843	241520	Fam171b
ENSMUSG00000048481	1.226923	2.562302	11.80735	0.00059	0.009814	NA	Mypop
ENSMUSG00000048482	2.031147	2.913259	7.834158	0.005127	0.046507	NA	Bdnf
ENSMUSG00000048583	-1.06671	7.265749	10.38709	0.001269	0.016949	NA	Igf2

ENSMUSG00000048731	-1.26218	3.787824	8.706539	0.003171	0.032824	70772	Ggnbp1
ENSMUSG00000048747	4.715529	0.379121	45.4324	1.58E-11	4.89E-09	NA	E130114P18Rik
ENSMUSG00000048772	2.151302	1.645668	25.07792	5.51E-07	3.98E-05	68777	Tmem53
ENSMUSG00000049001	1.933798	1.595218	14.51739	0.000139	0.003309	68169	Ndnf
ENSMUSG00000049152	-6.41388	0.029579	26.87281	2.17E-07	1.77E-05	223337	Ugt3a2
ENSMUSG00000049173	3.863094	4.082433	8.530095	0.003493	0.035101	170947	Myoz3
ENSMUSG00000049176	3.705836	0.171566	14.80504	0.000119	0.002944	333605	Frmpd4
ENSMUSG00000049281	3.41465	1.900836	12.58984	0.000388	0.00721	235281	Scn3b
ENSMUSG00000049537	-5.78503	0.624587	18.95197	1.34E-05	0.000506	243078	Tecrl
ENSMUSG00000049723	4.311143	4.330704	8.350463	0.003856	0.037617	17381	Mmp12
ENSMUSG00000049866	1.416078	2.744893	11.50355	0.000695	0.011046	320982	Arl4c
ENSMUSG00000049872	1.402843	2.988553	9.831538	0.001715	0.021017	103511	Fam26e
ENSMUSG00000049881	-1.05609	4.318359	23.65075	1.16E-06	7.10E-05	NA	2810025M15Rik
ENSMUSG00000050069	5.861332	1.917091	22.94207	1.67E-06	9.73E-05	23893	Grem2
ENSMUSG00000050122	3.5623	1.370684	15.29175	9.21E-05	0.002369	70853	Vwa3b
ENSMUSG00000050164	4.876471	0.686126	11.46622	0.000709	0.011186	207911	Mchr1
ENSMUSG00000050222	1.03182	3.972056	13.25757	0.000271	0.005548	239114	Il17d
ENSMUSG00000050379	2.045281	3.888918	36.4338	1.58E-09	2.86E-07	56526	6-Sep
ENSMUSG00000050503	-1.22847	2.785533	8.534445	0.003485	0.035081	74165	Fbxl22
ENSMUSG00000050621	-1.14277	7.218689	15.27185	9.31E-05	0.00239	1E+08	Rps27rt
ENSMUSG00000050737	1.908937	5.50694	29.03939	7.09E-08	6.86E-06	64292	Ptges
ENSMUSG00000050796	1.840556	2.101472	12.12279	0.000498	0.008642	117592	B3galt6
ENSMUSG00000050891	1.138453	3.200847	13.53853	0.000234	0.004917	69694	Tatdn1
ENSMUSG00000050967	2.360604	0.138723	10.45534	0.001223	0.016567	263764	Creg2
ENSMUSG00000050989	1.040829	6.243552	27.68695	1.43E-07	1.25E-05	74777	Sepr1
ENSMUSG00000051041	2.118787	3.750935	8.487099	0.003577	0.035702	244198	Olfml1
ENSMUSG00000051043	1.331992	4.996809	16.87061	4.00E-05	0.001221	70355	Gprc5c
ENSMUSG00000051048	1.767873	2.15942	9.654511	0.001889	0.022521	320452	P4ha3
ENSMUSG00000051379	1.807001	3.726234	14.18171	0.000166	0.003833	NA	Flrt3
ENSMUSG00000051456	5.511278	3.64783	27.66577	1.44E-07	1.25E-05	56534	Hspb3
ENSMUSG00000051495	1.12528	5.450742	11.85367	0.000575	0.00963	270110	Irf2bp2
ENSMUSG00000051506	6.942561	0.463055	23.05374	1.58E-06	9.34E-05	545030	Wdfy4
ENSMUSG00000051550	1.5591	3.007664	24.16387	8.85E-07	5.84E-05	NA	Zfp579
ENSMUSG00000051747	1.625452	12.86615	20.04478	7.56E-06	0.00032	22138	Ttn
ENSMUSG00000051980	6.046485	4.008809	15.37376	8.82E-05	0.002292	12374	Casr
ENSMUSG00000052276	3.189839	4.703498	8.684463	0.003209	0.033176	239790	Ostn
ENSMUSG00000052374	2.323518	10.02341	31.74898	1.75E-08	2.17E-06	11472	Actn2
ENSMUSG00000052520	-9.09343	-0.52561	32.18817	1.40E-08	1.86E-06	13109	Cyp2j5
ENSMUSG00000052688	1.618818	4.000183	9.026453	0.002661	0.028997	226421	5430435G22Rik
ENSMUSG00000052726	2.115528	2.026617	11.66024	0.000639	0.010427	240776	Kcnt2
ENSMUSG00000052852	2.140897	5.899794	11.35528	0.000752	0.011695	52250	Reep1
ENSMUSG00000052861	6.698765	-0.60146	8.345897	0.003866	0.03766	330355	Dnah6
ENSMUSG00000052957	1.217612	7.061925	18.97605	1.32E-05	0.000501	14451	Gas1
ENSMUSG00000053192	1.379354	5.292682	23.0424	1.58E-06	9.35E-05	56772	Mllt11
ENSMUSG00000053318	3.371784	0.609948	9.781574	0.001763	0.021411	74748	Slamf8
ENSMUSG00000053475	1.566315	9.766999	9.271464	0.002328	0.026298	21930	Tnfaip6
ENSMUSG00000054203	2.478332	8.220123	16.37831	5.19E-05	0.001518	226695	Ifi205
ENSMUSG00000054342	8.247148	-0.55139	8.94205	0.002787	0.029924	16534	Kcnn4

ENSMUSG00000054675	2.221952	5.059562	36.31953	1.67E-09	2.94E-07	231633	Tmem119
ENSMUSG00000055172	1.612681	8.284186	15.91322	6.63E-05	0.001853	50909	C1ra
ENSMUSG00000055435	1.564471	7.046232	20.87096	4.91E-06	0.000224	17132	Maf
ENSMUSG00000055489	6.588769	6.71182	33.0054	9.19E-09	1.31E-06	233246	Ano5
ENSMUSG00000055632	1.073948	7.754528	8.459158	0.003632	0.036103	NA	Hmcn2
ENSMUSG00000055745	4.029121	2.6023	39.54806	3.20E-10	7.00E-08	223732	Ldoc1l
ENSMUSG00000055782	2.847361	5.130024	29.22196	6.45E-08	6.38E-06	26874	Abcd2
ENSMUSG00000055980	2.032821	5.064697	16.23271	5.60E-05	0.001603	16367	Irs1
ENSMUSG00000056071	-4.15591	1.691144	10.87319	0.000976	0.014004	20202	S100a9
ENSMUSG00000056174	1.220322	3.398756	8.332552	0.003894	0.03787	329941	Col8a2
ENSMUSG00000056214	2.727237	4.614099	59.97808	9.59E-15	6.82E-12	93737	Pard6g
ENSMUSG00000056220	1.383352	3.506574	15.36222	8.87E-05	0.002299	18783	Pla2g4a
ENSMUSG00000056267	-1.12729	2.022089	11.03408	0.000895	0.013226	68121	Cep70
ENSMUSG00000056328	1.242344	12.52928	7.884034	0.004987	0.045591	17879	Myh1
ENSMUSG00000056481	1.779617	6.265674	13.04334	0.000304	0.006021	70445	Cd248
ENSMUSG00000056900	4.572075	7.862817	97.69948	4.87E-23	1.15E-19	72607	Usp13
ENSMUSG00000056966	-1.39541	1.762893	9.001235	0.002698	0.02925	118446	Gjc3
ENSMUSG00000057003	1.521747	14.28073	14.75647	0.000122	0.003016	17884	Myh4
ENSMUSG00000057103	-3.82663	0.706767	46.05985	1.15E-11	3.79E-09	66116	Cml1
ENSMUSG00000057156	-1.36982	1.903684	13.80825	0.000202	0.00445	NA	Homez
ENSMUSG00000057182	2.104931	2.423569	13.48029	0.000241	0.005043	20269	Scn3a
ENSMUSG00000057719	-2.40857	4.200317	9.031818	0.002653	0.028941	269016	Sh3rf2
ENSMUSG00000057751	1.486341	2.477004	11.34901	0.000755	0.011722	230971	Megf6
ENSMUSG00000057967	1.214471	3.476745	20.56874	5.75E-06	0.000253	14172	Fgf18
ENSMUSG00000058022	-6.03585	-0.22178	12.14237	0.000493	0.00859	109254	Adtrp
ENSMUSG00000058446	1.115321	5.145047	25.50641	4.41E-07	3.30E-05	387524	Znrf2
ENSMUSG00000058486	1.061021	3.408143	13.42151	0.000249	0.005165	101240	Wdr91
ENSMUSG00000058897	4.768663	-0.14899	14.61491	0.000132	0.003168	77018	Col25a1
ENSMUSG00000058914	2.568687	4.371453	13.96767	0.000186	0.004166	81799	C1qtnf3
ENSMUSG00000059022	1.468848	3.963703	10.51561	0.001184	0.016127	333088	Kcp
ENSMUSG00000059325	-1.13938	2.713179	12.74397	0.000357	0.006756	NA	Hopx
ENSMUSG00000059326	1.464224	2.143865	10.17275	0.001425	0.018634	12982	Csf2ra
ENSMUSG00000059412	-3.38075	2.124319	43.21701	4.90E-11	1.29E-08	11936	Fxyd2
ENSMUSG00000059436	-1.41312	4.559649	28.59554	8.92E-08	8.29E-06	17187	Max
ENSMUSG00000059475	-1.02242	2.987537	10.04877	0.001524	0.019606	NA	Zfp426
ENSMUSG00000059854	4.92567	0.780613	9.823329	0.001723	0.021075	244653	Hydin
ENSMUSG00000059895	-1.15231	8.101337	18.80865	1.45E-05	0.000541	19245	Ptp4a3
ENSMUSG00000059901	1.71632	2.107165	12.1635	0.000487	0.008537	237360	Adamts14
ENSMUSG00000059975	1.315984	2.862265	18.13725	2.06E-05	0.00072	72723	Zfp74
ENSMUSG00000060301	2.162607	3.792847	29.36103	6.01E-08	6.06E-06	72128	2610008E11Rik
ENSMUSG00000060470	1.840366	4.048895	16.03545	6.22E-05	0.001751	54672	Gpr97
ENSMUSG00000060572	1.671278	4.924594	22.57886	2.02E-06	0.000111	NA	Mfap2
ENSMUSG00000060586	2.21147	5.625075	9.706737	0.001836	0.022049	14969	H2-Eb1
ENSMUSG00000060594	1.611082	3.225109	14.58441	0.000134	0.003208	244864	Layn
ENSMUSG00000060600	1.676204	11.09737	15.08558	0.000103	0.002589	NA	Eno3
ENSMUSG00000060703	1.141448	6.53375	14.75145	0.000123	0.003017	66205	Cd302
ENSMUSG00000060791	1.515209	1.682059	16.84794	4.05E-05	0.001231	63986	Gmfg
ENSMUSG00000060843	-2.2911	2.305365	19.59402	9.58E-06	0.000382	NA	Ctnna3

ENSMUSG00000060913	5.929239	5.322258	37.9832	7.14E-10	1.41E-07	381485	Trim55
ENSMUSG00000061080	1.793583	4.448659	13.03601	0.000306	0.006032	268890	Lsamp
ENSMUSG00000061186	-4.13936	-0.23535	12.67233	0.000371	0.006971	353282	Sfmbt2
ENSMUSG00000061462	-1.49482	10.31288	14.22652	0.000162	0.003761	380698	Obscn
ENSMUSG00000061535	1.063752	3.273301	9.376797	0.002197	0.025296	109323	C1qtnf7
ENSMUSG00000061723	1.530978	12.81664	19.74284	8.86E-06	0.00036	21957	Tnnt3
ENSMUSG00000061762	3.737013	6.31998	204.0962	2.67E-46	3.79E-42	21333	Tac1
ENSMUSG00000061816	2.557158	11.96292	28.71879	8.37E-08	7.83E-06	17901	Myl1
ENSMUSG00000061906	-9.79037	-0.02435	30.94441	2.66E-08	3.10E-06	100559	Ugt2b38
ENSMUSG00000062077	8.078444	6.837824	89.02942	3.89E-21	6.92E-18	58522	Trim54
ENSMUSG00000062694	2.593234	4.667323	16.55531	4.73E-05	0.001406	12391	Cav3
ENSMUSG00000063052	1.078572	3.394174	15.57624	7.92E-05	0.002119	NA	Lrrc40
ENSMUSG00000063354	2.489474	1.012562	7.73872	0.005405	0.047791	72027	Slc39a4
ENSMUSG00000063445	-1.58919	1.59014	12.64753	0.000376	0.007048	67824	Nmral1
ENSMUSG00000063558	1.085148	5.015778	21.25454	4.02E-06	0.000194	11761	Aox1
ENSMUSG00000063564	1.956977	4.04461	21.06775	4.43E-06	0.000207	237759	Col23a1
ENSMUSG00000063590	-8.53002	-1.10579	33.28768	7.95E-09	1.19E-06	434674	Slc22a28
ENSMUSG00000063652	-1.01308	2.640927	10.51745	0.001183	0.016127	56517	Slc22a21
ENSMUSG00000063683	-2.66137	-0.19845	19.71671	8.98E-06	0.000364	107146	Glyat
ENSMUSG00000063730	-1.53748	2.616455	13.51348	0.000237	0.004962	NA	Hsd3b2
ENSMUSG00000064267	3.084215	3.660334	27.94719	1.25E-07	1.12E-05	NA	Hvcn1
ENSMUSG00000064337	-1.4685	10.20605	23.91883	1.00E-06	6.44E-05	NA	mt-Rnr1
ENSMUSG00000064339	-1.07676	11.95922	18.08197	2.12E-05	0.000736	NA	mt-Rnr2
ENSMUSG00000064350	-3.92633	4.709468	11.30327	0.000774	0.011923	NA	mt-Ty
ENSMUSG00000066072	-3.66722	-0.68523	12.00308	0.000531	0.00908	13117	Cyp4a10
ENSMUSG00000066270	1.567946	4.379594	15.56665	7.96E-05	0.002121	NA	Gm10157
ENSMUSG00000066279	4.288279	2.710595	12.20592	0.000476	0.008397	504186	Chrna10
ENSMUSG00000067158	-1.52221	2.5523	11.03201	0.000896	0.013227	12829	Col4a4
ENSMUSG00000067276	1.236505	4.166653	9.089088	0.002571	0.028375	12338	Capn6
ENSMUSG00000067780	1.529555	2.84171	13.17597	0.000284	0.00572	94227	Pi15
ENSMUSG00000067818	-1.54136	5.700478	26.78575	2.27E-07	1.84E-05	98932	Myl9
ENSMUSG00000068079	-1.01552	4.831116	8.773432	0.003056	0.032109	21407	Tcf15
ENSMUSG00000068196	1.036456	6.536897	9.50896	0.002045	0.023918	12837	Col8a1
ENSMUSG00000068263	2.23741	2.701823	21.45678	3.62E-06	0.000176	58229	Efcc1
ENSMUSG00000068373	3.32813	1.94873	17.62936	2.68E-05	0.000905	241589	D430041D05Rik
ENSMUSG00000068614	6.900784	8.965963	52.4408	4.43E-13	2.03E-10	11464	Actc1
ENSMUSG00000068747	-1.25613	6.128882	21.96738	2.77E-06	0.000142	20661	Sort1
ENSMUSG00000068893	-9.225	-0.55693	15.46873	8.39E-05	0.002213	1E+08	Sprr2a2
ENSMUSG00000069206	1.314251	2.732081	11.54652	0.000679	0.010893	NA	Zfp874a
ENSMUSG00000069515	3.077891	2.810688	7.705344	0.005506	0.048372	17110	Lyz1
ENSMUSG00000069805	-5.83741	0.718403	12.8265	0.000342	0.006534	14121	Fbp1
ENSMUSG00000069920	1.198577	3.823628	8.517444	0.003518	0.035197	NA	B3gnt9
ENSMUSG00000070639	-1.37021	2.750977	9.705812	0.001837	0.022049	433926	Lrrc8b
ENSMUSG00000070942	2.0755	4.030821	11.93686	0.00055	0.009286	NA	Il1rl2
ENSMUSG00000071001	-1.59616	2.70857	32.2629	1.35E-08	1.81E-06	1E+08	Hrct1
ENSMUSG00000071103	2.438355	0.357766	7.986174	0.004714	0.04385	NA	1700029J07Rik
ENSMUSG00000071266	-1.28817	3.351849	23.74655	1.10E-06	6.92E-05	NA	Zfp946
ENSMUSG00000071477	1.065589	3.821786	14.24765	0.00016	0.003725	NA	Zfp777

ENSMUSG00000071656	1.424278	7.379556	12.28433	0.000457	0.008139	68852	Lrrn4cl
ENSMUSG00000071723	3.051183	0.725309	10.84461	0.000991	0.01415	14853	Gspt2
ENSMUSG00000071856	-1.17158	4.547306	11.17463	0.000829	0.012512	328949	Mcc
ENSMUSG00000071984	1.796781	8.404066	15.37126	8.83E-05	0.002292	68655	Fndc1
ENSMUSG00000072109	2.939836	-0.56906	17.62789	2.69E-05	0.000905	NA	A530040E14Rik
ENSMUSG00000072214	1.155588	3.157862	16.67845	4.43E-05	0.001329	18951	5-Sep
ENSMUSG00000072596	4.414452	0.709334	13.88603	0.000194	0.004303	13587	Ear2
ENSMUSG00000072812	1.447237	4.668347	16.53806	4.77E-05	0.001414	1E+08	Ahnak2
ENSMUSG00000072941	1.240285	7.135657	8.240359	0.004097	0.039401	20657	Sod3
ENSMUSG00000073421	2.59209	6.293458	17.28985	3.21E-05	0.00104	14961	H2-Ab1
ENSMUSG00000073489	1.680814	7.404874	32.15038	1.43E-08	1.88E-06	15951	Ifi204
ENSMUSG00000073490	1.774824	7.558056	20.00597	7.72E-06	0.000325	226691	Al607873
ENSMUSG00000073565	2.476765	0.249834	10.52108	0.00118	0.016127	71373	Prr16
ENSMUSG00000073600	-2.60172	6.068605	21.11944	4.32E-06	0.000205	381148	Prob1
ENSMUSG00000073878	6.726055	3.743921	16.46874	4.95E-05	0.001457	1E+08	Gm13304
ENSMUSG00000074264	1.257744	4.430175	8.213041	0.004159	0.03981	NA	Amy1
ENSMUSG00000074575	4.3729	0.56247	16.21616	5.65E-05	0.001611	NA	Kcng1
ENSMUSG00000074577	2.737873	2.135436	31.83462	1.68E-08	2.11E-06	69553	Fam65c
ENSMUSG00000074671	2.741626	0.721412	10.16473	0.001432	0.018681	241732	Tspyl3
ENSMUSG00000074754	-1.40482	3.477097	19.77103	8.73E-06	0.000356	228715	Gm561
ENSMUSG00000074782	2.466781	1.166343	22.65489	1.94E-06	0.000108	NA	4833422C13Rik
ENSMUSG00000074785	1.745737	2.565084	13.05464	0.000303	0.006019	54712	Plxnc1
ENSMUSG00000074813	1.058624	2.657022	11.75848	0.000606	0.00999	NA	Gm14005
ENSMUSG00000075307	2.632785	9.422396	20.525	5.89E-06	0.000258	228003	Khlh41
ENSMUSG00000075330	4.743192	3.143033	12.52591	0.000401	0.007376	NA	A930003A15Rik
ENSMUSG00000075334	5.485053	-0.16343	11.93281	0.000552	0.009295	67874	Rprm
ENSMUSG00000075389	-1.181	1.499141	10.15403	0.00144	0.018755	NA	2810410L24Rik
ENSMUSG00000075394	1.540463	2.407608	8.662667	0.003248	0.033429	15423	Hoxc4
ENSMUSG00000075593	3.221715	0.615259	17.0515	3.64E-05	0.001145	330217	Gal3st4
ENSMUSG00000076258	-1.19802	6.154664	7.822759	0.005159	0.046707	NA	Gm23935
ENSMUSG00000076281	-1.19802	6.154796	7.821892	0.005162	0.046707	NA	Gm24270
ENSMUSG00000078190	2.21716	4.51125	32.3239	1.30E-08	1.77E-06	NA	Dnm3os
ENSMUSG00000078607	3.367982	1.255907	34.83244	3.59E-09	5.87E-07	NA	1810010H24Rik
ENSMUSG00000078650	-8.24127	-1.21055	23.98595	9.70E-07	6.28E-05	14377	G6pc
ENSMUSG00000078794	1.264801	3.141264	15.56363	7.98E-05	0.002121	629378	Dact3
ENSMUSG00000079262	-1.64834	1.117549	10.16472	0.001432	0.018681	28254	Slco1a6
ENSMUSG00000079415	-4.06878	0.915889	21.31993	3.89E-06	0.000188	12803	Cntf
ENSMUSG00000079428	4.436242	6.42992	25.19106	5.19E-07	3.77E-05	1E+08	Tceal7
ENSMUSG00000079434	-3.25794	3.285016	48.57145	3.18E-12	1.26E-09	NA	Neu2
ENSMUSG00000079547	1.956169	2.588199	12.71287	0.000363	0.006842	14999	H2-DMb1
ENSMUSG00000079662	1.585509	1.300092	8.952503	0.002771	0.029813	18209	Ntn3
ENSMUSG00000081219	-1.42795	1.285326	7.873661	0.005016	0.045722	NA	Bambi-ps1
ENSMUSG00000081974	-1.87873	2.2541	19.78974	8.64E-06	0.000355	NA	Gm11960
ENSMUSG00000082292	1.466749	3.660245	15.3417	8.97E-05	0.00232	NA	Gm12250
ENSMUSG00000084808	1.788603	1.73385	10.9784	0.000922	0.013462	NA	9430091E24Rik
ENSMUSG00000085241	-1.01001	2.972901	8.372721	0.003809	0.037262	NA	Snhg3
ENSMUSG00000085272	5.943544	1.365321	17.18703	3.39E-05	0.001083	381835	Sbk3
ENSMUSG00000085604	2.130758	0.90709	16.8504	4.04E-05	0.001231	NA	Dhx58os

ENSMUSG00000085730	2.000879	0.634231	15.11752	0.000101	0.002552	NA	Gm13307
ENSMUSG00000085779	-1.26448	5.630104	13.56026	0.000231	0.004876	NA	Atcayos
ENSMUSG00000085956	-1.78578	0.352834	7.772284	0.005305	0.04731	NA	4930481B07Rik
ENSMUSG00000085977	2.964633	-0.02478	12.51953	0.000403	0.007376	NA	Gm5970
ENSMUSG00000086070	2.140285	0.127599	7.667377	0.005623	0.049065	NA	8430436N08Rik
ENSMUSG00000086158	1.031736	1.958245	8.836201	0.002953	0.031187	546143	Ccpg1os
ENSMUSG00000086219	4.210057	1.977031	10.03455	0.001536	0.019648	NA	Srrm4os
ENSMUSG00000086584	-1.40581	3.13892	9.639727	0.001904	0.022617	NA	Gm12002
ENSMUSG00000086587	1.963791	2.028186	8.834705	0.002956	0.031187	NA	Gm11837
ENSMUSG00000086741	-5.46351	1.204541	23.01987	1.60E-06	9.42E-05	NA	Gm15816
ENSMUSG00000086801	-4.82737	1.341741	15.72607	7.32E-05	0.001991	NA	Gm15943
ENSMUSG00000086918	-1.26537	4.370372	8.087763	0.004457	0.041897	NA	4930429F24Rik
ENSMUSG00000087057	-1.60403	1.734212	7.781284	0.005279	0.047255	NA	Gm11730
ENSMUSG00000087090	3.963668	5.828986	21.79334	3.04E-06	0.000154	NA	Nctc1
ENSMUSG00000087231	2.17718	0.959734	11.17206	0.00083	0.012512	NA	E230016M11Rik
ENSMUSG00000087263	1.766489	1.139513	9.749013	0.001794	0.021757	NA	Gm15726
ENSMUSG00000087943	-1.19802	6.154687	7.82288	0.005159	0.046707	NA	Gm24245
ENSMUSG00000089718	4.069972	1.402337	9.980561	0.001582	0.019931	NA	2310075C17Rik
ENSMUSG00000089797	3.390155	0.908066	36.44525	1.57E-09	2.86E-07	NA	Gm16118
ENSMUSG00000090084	1.972893	6.346464	62.4186	2.78E-15	2.63E-12	51795	Srpx
ENSMUSG00000090125	-1.02057	3.26748	12.15399	0.00049	0.008553	18991	Pou3f1
ENSMUSG00000090523	1.082238	4.83841	21.73698	3.13E-06	0.000158	71683	Gypc
ENSMUSG00000091455	-6.06116	0.398347	15.23711	9.48E-05	0.00243	628870	Otogl
ENSMUSG00000091475	1.497665	1.180477	11.09436	0.000866	0.012884	NA	2810468N07Rik
ENSMUSG00000091845	-1.02748	1.85276	8.898273	0.002854	0.030527	NA	Gm4604
ENSMUSG00000092083	-2.581	1.253021	11.99009	0.000535	0.009106	98741	Kcnb2
ENSMUSG00000092085	-3.99264	0.9564	11.95748	0.000544	0.009239	NA	Gm17224
ENSMUSG00000092283	5.310463	1.724514	11.50923	0.000693	0.011046	NA	Gm20412
ENSMUSG00000092397	-5.33374	0.397233	14.1649	0.000167	0.003842	NA	C130080G10Rik
ENSMUSG00000093593	3.040271	3.46855	7.966572	0.004765	0.044096	NA	Gm20683
ENSMUSG00000094164	-8.35517	-1.19451	8.664889	0.003244	0.033429	NA	Ighv2-3
ENSMUSG00000094686	2.586174	8.535518	17.10244	3.54E-05	0.001124	18829	Ccl21a
ENSMUSG00000095079	11.49301	1.82347	13.64697	0.000221	0.00469	NA	Igha
ENSMUSG00000095385	1.790181	0.732469	9.227046	0.002385	0.026802	235302	D630033O11Rik
ENSMUSG00000095762	-4.95741	3.018406	8.260714	0.004051	0.039041	NA	Gm16378
ENSMUSG00000097028	5.889394	0.609362	57.36435	3.62E-14	2.34E-11	NA	Ptgs2os
ENSMUSG00000097061	1.952025	2.385993	22.24697	2.40E-06	0.00013	NA	9330151L19Rik
ENSMUSG00000097353	-1.1802	3.704406	18.32021	1.87E-05	0.000667	NA	A430046D13Rik
ENSMUSG00000097367	-6.15966	1.43636	8.529507	0.003494	0.035101	NA	Gm26718
ENSMUSG00000097451	-1.14707	5.321982	10.00118	0.001564	0.019832	NA	Rian
ENSMUSG00000097559	-1.78949	-0.28002	7.630018	0.00574	0.049727	NA	D430018E03Rik
ENSMUSG00000097756	3.850128	1.458568	33.08468	8.82E-09	1.27E-06	NA	A730056A06Rik
ENSMUSG00000097868	-1.23149	1.897566	10.8737	0.000975	0.014004	NA	A330069E16Rik
ENSMUSG00000097971	-1.11578	7.147667	14.17727	0.000166	0.003835	NA	Gm26917
ENSMUSG00000100410	4.100124	0.491727	8.435392	0.00368	0.036324	NA	2310020H05Rik
ENSMUSG00000100813	-1.56509	1.071766	11.98891	0.000535	0.009106	NA	Gm28874
ENSMUSG00000100954	-1.04852	0.709297	8.887068	0.002872	0.030669	NA	Gm10138
ENSMUSG00000101655	-1.69337	4.781038	15.084	0.000103	0.002589	NA	2310040G24Rik

ENSMUSG00000101906	-1.25143	1.938644	7.929405	0.004864	0.044749	NA	Mrgprc2-ps
ENSMUSG00000102070	-3.56856	13.07541	9.337846	0.002245	0.025625	NA	Gm28661
ENSMUSG00000102543	1.298456	2.154931	8.982096	0.002726	0.029513	93708	PCDHGC5
ENSMUSG00000102615	3.38977	0.274795	13.41304	0.00025	0.005181	NA	RP23-81K14.2
ENSMUSG00000103661	5.94622	1.085727	9.855957	0.001693	0.020829	NA	ANKRD23
ENSMUSG00000103749	1.585196	2.111212	8.351237	0.003854	0.037617	93702	Pcdhgb5
ENSMUSG00000104413	-1.08816	3.072668	9.874828	0.001676	0.020688	NA	RP23-77A8.2

Supplemental Table 2. Differentially expressed genes in FAPs at 10 days.

ID	logFC	logCPM	LR	PValue	FDR	Entrez	Gene
ENSMUSG000000037379	-3.46391	5.918074	304.5825	3.31E-68	3.95E-64	100689	Spon2
ENSMUSG000000029417	4.385705	5.052592	175.0949	5.71E-40	3.41E-36	17329	Cxcl9
ENSMUSG000000030966	4.097365	2.94892	162.8807	2.66E-37	1.06E-33	NA	Trim21
ENSMUSG000000054196	4.311272	7.473815	159.1696	1.72E-36	5.13E-33	68588	Cthrc1
ENSMUSG000000000031	2.458049	6.393834	158.5909	2.30E-36	5.49E-33	NA	H19
ENSMUSG000000068122	3.682344	6.303447	134.2318	4.86E-31	9.67E-28	11609	Agtr2
ENSMUSG000000048583	2.357643	6.886355	124.3224	7.16E-29	1.22E-25	NA	Igf2
ENSMUSG000000026185	-1.93441	7.764371	114.6499	9.39E-27	1.40E-23	16011	Igfbp5
ENSMUSG000000028766	-2.38244	4.829389	112.7821	2.41E-26	3.19E-23	11647	Alpl
ENSMUSG000000022037	-2.63145	6.861164	104.3207	1.72E-24	2.05E-21	12759	Clu
ENSMUSG000000007279	2.48364	3.635179	97.26699	6.06E-23	6.58E-20	56788	Scube2
ENSMUSG000000051855	2.343292	8.626954	96.86961	7.40E-23	7.37E-20	17294	Mest
ENSMUSG000000031841	-1.9478	4.938104	93.85902	3.39E-22	3.11E-19	12554	Cdh13
ENSMUSG000000057722	-2.66316	5.644222	93.33127	4.42E-22	3.77E-19	16847	Lepr
ENSMUSG000000022103	-2.43515	4.57974	89.29356	3.40E-21	2.71E-18	14586	Gfra2
ENSMUSG000000073555	2.874397	4.617734	83.99551	4.96E-20	3.70E-17	240327	Gm4951
ENSMUSG000000055368	-3.37506	3.85207	83.80789	5.45E-20	3.83E-17	20538	Slc6a2
ENSMUSG000000018909	-1.736	4.342127	83.5575	6.19E-20	4.10E-17	109689	Arrb1
ENSMUSG000000028364	3.082483	7.230032	82.28995	1.18E-19	7.38E-17	21923	Tnc
ENSMUSG000000031283	-1.91061	6.122997	81.79261	1.51E-19	9.02E-17	83453	Chrdl1
ENSMUSG000000010307	2.081126	4.273717	80.09557	3.57E-19	2.03E-16	67893	Tmem86a
ENSMUSG000000031778	2.423318	4.85215	77.17169	1.57E-18	8.51E-16	20312	Cx3cl1
ENSMUSG000000090942	2.990268	5.697723	75.38985	3.86E-18	2.01E-15	240328	F830016B08Rik
ENSMUSG000000001131	2.547479	6.079166	74.74045	5.37E-18	2.67E-15	21857	Timp1
ENSMUSG000000032060	-1.47383	6.860787	73.74346	8.90E-18	4.25E-15	12955	Cryab
ENSMUSG000000052776	4.164344	4.025427	71.41651	2.89E-17	1.33E-14	246730	Oas1a
ENSMUSG000000037005	-1.77457	4.666597	69.88437	6.29E-17	2.78E-14	170745	Xpnpep2
ENSMUSG000000040856	2.793968	7.480697	69.3423	8.28E-17	3.53E-14	13386	Dlk1
ENSMUSG000000000402	-3.26702	2.698386	68.34745	1.37E-16	5.64E-14	54156	Egfl6
ENSMUSG000000027500	-4.54074	1.365934	67.70563	1.90E-16	7.55E-14	20257	Stmn2
ENSMUSG000000061878	1.734187	6.591863	67.35464	2.27E-16	8.73E-14	20698	Sphk1
ENSMUSG000000031274	-1.81603	6.341121	66.26103	3.95E-16	1.47E-13	NA	Col4a5
ENSMUSG000000046618	-1.82218	5.488177	65.20307	6.76E-16	2.44E-13	241327	Olfml2a
ENSMUSG000000089774	-1.92625	7.422158	64.19452	1.13E-15	3.96E-13	53881	Slc5a3
ENSMUSG000000022952	1.727537	6.420335	63.66939	1.47E-15	5.02E-13	12394	Runx1
ENSMUSG000000074782	2.608716	3.847292	62.0856	3.29E-15	1.09E-12	NA	4833422C13Rik
ENSMUSG000000030249	-2.66231	3.683627	61.94573	3.53E-15	1.11E-12	20928	Abcc9
ENSMUSG000000040289	1.648942	4.090311	61.95913	3.51E-15	1.11E-12	15213	Hey1
ENSMUSG000000041540	-1.30016	4.674791	60.40008	7.74E-15	2.37E-12	20678	Sox5
ENSMUSG000000038059	1.556448	6.022033	59.98148	9.58E-15	2.86E-12	106878	Smim3
ENSMUSG000000040537	-1.86413	4.40347	59.87493	1.01E-14	2.94E-12	11496	Adam22
ENSMUSG000000079138	1.46735	6.720827	59.75557	1.07E-14	3.05E-12	NA	Gm8818
ENSMUSG000000024076	-2.75027	6.167356	59.30186	1.35E-14	3.76E-12	74199	Vit
ENSMUSG000000089989	-1.65215	3.927664	57.9234	2.73E-14	7.23E-12	NA	Flt3l
ENSMUSG000000045555	-2.82985	2.522045	57.95	2.69E-14	7.23E-12	327747	Mettl24

ENSMUSG00000045362	8.321095	0.615689	57.43746	3.49E-14	9.06E-12	244237	Tnfrsf26
ENSMUSG00000027386	1.685126	8.762509	57.05114	4.25E-14	1.08E-11	70370	Fbln7
ENSMUSG00000042045	5.438151	1.818791	55.7869	8.08E-14	2.01E-11	66402	Sln
ENSMUSG00000020467	-1.35792	7.574317	55.14073	1.12E-13	2.73E-11	216616	Efemp1
ENSMUSG00000020620	-1.25342	6.691254	54.21146	1.80E-13	4.30E-11	27404	Abca8b
ENSMUSG00000029426	1.232069	6.6408	53.73204	2.30E-13	5.38E-11	12492	Scarb2
ENSMUSG00000047216	-1.92776	3.848563	53.38556	2.74E-13	6.29E-11	227485	Cdh19
ENSMUSG00000032702	-1.74609	4.130949	52.91665	3.48E-13	7.84E-11	107351	Kank1
ENSMUSG00000038296	-2.00703	3.564289	52.58075	4.13E-13	9.13E-11	233733	Galnt18
ENSMUSG00000049119	1.256874	4.691338	52.53258	4.23E-13	9.19E-11	NA	Fam110b
ENSMUSG00000034855	2.577817	5.511438	52.21471	4.98E-13	1.06E-10	15945	Cxcl10
ENSMUSG00000062257	-1.50608	3.927698	52.06153	5.38E-13	1.13E-10	330908	Opcml
ENSMUSG00000031490	1.125056	6.488978	51.92739	5.76E-13	1.19E-10	13685	Eif4ebp1
ENSMUSG00000058135	-1.54205	9.367994	51.78202	6.20E-13	1.25E-10	14862	Gstm1
ENSMUSG00000033174	-1.89649	3.768973	51.65374	6.62E-13	1.32E-10	23945	Mgll
ENSMUSG00000071847	-1.60033	3.689181	51.07377	8.90E-13	1.72E-10	494504	Apcdd1
ENSMUSG00000021702	2.299143	10.29613	51.06769	8.92E-13	1.72E-10	21828	Thbs4
ENSMUSG00000033066	-1.68964	7.340578	50.86346	9.90E-13	1.85E-10	NA	Gas7
ENSMUSG00000024500	-1.67273	3.449311	50.88846	9.78E-13	1.85E-10	72930	Ppp2r2b
ENSMUSG00000027460	-3.41789	3.677348	50.81803	1.01E-12	1.86E-10	11602	Angpt4
ENSMUSG00000067158	-2.03706	5.984838	50.48324	1.20E-12	2.17E-10	12829	Col4a4
ENSMUSG00000029322	3.338369	4.984508	49.39913	2.09E-12	3.72E-10	231507	Plac8
ENSMUSG00000029832	2.298723	3.591111	49.33943	2.15E-12	3.78E-10	18025	Nfe2l3
ENSMUSG00000064294	-2.38781	2.310562	49.06063	2.48E-12	4.29E-10	71724	Aox3
ENSMUSG00000039457	-1.71772	5.638339	48.52923	3.25E-12	5.55E-10	19041	Ppl
ENSMUSG00000031595	1.340955	8.57787	48.42431	3.43E-12	5.77E-10	68797	Pdgfrr
ENSMUSG00000023336	-1.27281	5.194923	48.00844	4.24E-12	7.04E-10	67866	Wfdc1
ENSMUSG00000028268	1.855063	5.988979	47.84605	4.61E-12	7.54E-10	NA	Gbp3
ENSMUSG00000035692	2.73642	4.924678	47.7609	4.82E-12	7.77E-10	1E+08	Isg15
ENSMUSG00000021190	1.463147	7.565261	46.94051	7.32E-12	1.16E-09	NA	Lgmn
ENSMUSG00000048482	3.53937	4.12438	46.14553	1.10E-11	1.70E-09	NA	Bdnf
ENSMUSG00000041423	-2.41363	2.799586	46.14919	1.10E-11	1.70E-09	68957	Paqr6
ENSMUSG00000021678	2.224142	3.661086	46.07408	1.14E-11	1.74E-09	14063	F2rl1
ENSMUSG00000021388	1.935786	9.937423	45.85324	1.27E-11	1.93E-09	NA	Aspn
ENSMUSG00000018171	1.286733	7.611387	45.61489	1.44E-11	2.15E-09	75909	Vmp1
ENSMUSG00000025498	1.880441	5.905594	45.56376	1.48E-11	2.18E-09	54123	Irf7
ENSMUSG00000048376	1.780442	7.548475	45.35158	1.65E-11	2.40E-09	14062	F2r
ENSMUSG00000082292	2.475664	3.17275	45.12546	1.85E-11	2.65E-09	NA	Gm12250
ENSMUSG00000030107	2.438347	5.201859	45.10492	1.87E-11	2.65E-09	24110	Usp18
ENSMUSG00000056313	1.43299	4.114359	44.77935	2.21E-11	3.08E-09	69068	1810011O10Rik
ENSMUSG00000023960	-1.74532	4.987569	44.76965	2.22E-11	3.08E-09	NA	Enpp5
ENSMUSG00000006731	1.913976	3.436462	44.63473	2.37E-11	3.26E-09	14421	B4galnt1
ENSMUSG00000042834	1.563698	8.425576	44.32267	2.78E-11	3.74E-09	NA	Nrep
ENSMUSG00000066861	3.788111	2.126898	44.32671	2.78E-11	3.74E-09	23960	Oas1g
ENSMUSG00000021662	-1.4991	4.386544	43.77364	3.69E-11	4.89E-09	110596	Arhgef28
ENSMUSG00000060572	1.226818	9.302615	43.62939	3.97E-11	5.21E-09	NA	Mfap2
ENSMUSG00000036585	-1.87308	4.746157	43.57744	4.08E-11	5.29E-09	14164	Fgf1

ENSMUSG000000101330	8.169927	0.864153	43.47198	4.30E-11	5.46E-09	NA	Gm10193
ENSMUSG000000040147	-1.20814	4.752953	43.48557	4.27E-11	5.46E-09	109731	Maob
ENSMUSG000000030560	1.587556	6.333152	43.44245	4.37E-11	5.49E-09	13032	Ctsc
ENSMUSG000000037887	-1.14486	6.275974	43.37358	4.52E-11	5.62E-09	18218	Dusp8
ENSMUSG000000019853	-1.6706	3.869226	42.96824	5.56E-11	6.85E-09	56016	Hebp2
ENSMUSG000000000320	-2.41601	2.37637	42.74372	6.24E-11	7.60E-09	11684	Alox12
ENSMUSG000000042485	-1.20801	5.125636	42.63358	6.60E-11	7.96E-09	66175	Mustn1
ENSMUSG000000061024	1.473432	6.328037	42.22807	8.12E-11	9.70E-09	59014	Rrs1
ENSMUSG000000021792	-2.87256	2.801546	42.10038	8.67E-11	1.02E-08	70564	Fam213a
ENSMUSG000000019997	1.41768	10.27558	41.60473	1.12E-10	1.31E-08	14219	Ctgf
ENSMUSG000000039347	-1.57466	4.475952	41.2667	1.33E-10	1.54E-08	76252	Atp6v0e2
ENSMUSG000000079465	-2.16626	6.705431	40.96469	1.55E-10	1.78E-08	12828	Col4a3
ENSMUSG000000022469	-1.46456	3.523557	40.75241	1.73E-10	1.96E-08	223864	Rapgef3
ENSMUSG000000031906	-3.5895	4.893013	40.66345	1.81E-10	2.04E-08	58994	Smpd3
ENSMUSG000000026069	4.206082	6.107321	40.24135	2.24E-10	2.50E-08	17082	Il1rl1
ENSMUSG000000029377	4.97173	1.181453	39.7954	2.82E-10	3.12E-08	13874	Ereg
ENSMUSG000000042379	-3.1872	1.647119	39.72366	2.93E-10	3.16E-08	71690	Esm1
ENSMUSG000000040254	-2.44956	3.280215	39.74257	2.90E-10	3.16E-08	108151	Sema3d
ENSMUSG000000027514	2.185746	3.155923	39.71654	2.94E-10	3.16E-08	58203	Zbp1
ENSMUSG000000032648	-1.4369	4.490354	39.63884	3.06E-10	3.26E-08	19309	Pygm
ENSMUSG000000058145	1.94375	3.475899	39.57159	3.16E-10	3.34E-08	233332	Adamts17
ENSMUSG000000024846	-2.6402	2.159266	39.42536	3.41E-10	3.57E-08	73720	Cst6
ENSMUSG000000008136	1.168137	5.58616	39.12449	3.98E-10	4.13E-08	14200	Fhl2
ENSMUSG000000054072	2.853771	8.407273	38.3688	5.86E-10	6.03E-08	NA	ligp1
ENSMUSG000000063434	-3.63895	0.861865	38.21303	6.34E-10	6.47E-08	66673	Sorcs3
ENSMUSG000000032246	-1.83517	3.56247	37.9302	7.33E-10	7.36E-08	75600	Calml4
ENSMUSG000000038119	-1.45967	5.547747	37.94324	7.28E-10	7.36E-08	NA	Cdon
ENSMUSG000000074264	-1.26597	4.866251	37.89777	7.46E-10	7.42E-08	NA	Amy1
ENSMUSG000000020027	1.334989	6.978731	37.85373	7.63E-10	7.52E-08	216233	Socs2
ENSMUSG000000024785	1.070047	5.505435	37.79293	7.87E-10	7.70E-08	59028	Rcl1
ENSMUSG000000020902	-1.25884	5.48361	37.67933	8.34E-10	8.09E-08	18208	Ntn1
ENSMUSG000000022044	-1.70088	4.675037	37.65398	8.45E-10	8.13E-08	56471	Stmn4
ENSMUSG000000061816	3.83861	3.559872	37.27473	1.03E-09	9.80E-08	17901	Myl1
ENSMUSG000000034435	1.990973	3.39178	37.22253	1.05E-09	9.99E-08	238257	Tmem30b
ENSMUSG000000003352	1.443564	4.647389	36.86822	1.26E-09	1.18E-07	12297	Cacnb3
ENSMUSG000000032334	1.159433	10.59985	36.88281	1.25E-09	1.18E-07	16949	Loxl1
ENSMUSG000000026255	-1.12251	5.074866	36.62594	1.43E-09	1.32E-07	98363	Efhd1
ENSMUSG000000056973	-2.62029	5.287814	36.30201	1.69E-09	1.55E-07	104158	Ces1d
ENSMUSG000000033355	1.871295	6.372511	36.17143	1.81E-09	1.65E-07	67775	Rtp4
ENSMUSG000000032288	1.08191	4.444278	35.70823	2.29E-09	2.07E-07	102462	Imp3
ENSMUSG000000035000	-1.06432	6.969207	35.42873	2.65E-09	2.37E-07	13482	Dpp4
ENSMUSG000000039997	1.52391	8.209356	35.05871	3.20E-09	2.83E-07	15950	Ifi203
ENSMUSG000000032372	1.331494	4.479114	35.06893	3.18E-09	2.83E-07	18828	Plscr2
ENSMUSG000000036131	-1.43362	3.642532	34.83397	3.59E-09	3.15E-07	385354	Frmd7
ENSMUSG000000022096	-1.36524	4.159458	34.57468	4.10E-09	3.57E-07	15460	Hr
ENSMUSG000000032363	1.532129	4.25679	34.36468	4.57E-09	3.94E-07	108153	Adamts7
ENSMUSG000000066026	-1.33325	6.317497	34.35592	4.59E-09	3.94E-07	20148	Dhrs3

ENSMUSG00000039239	1.108061	7.195664	34.32185	4.67E-09	3.98E-07	21808	Tgfb2
ENSMUSG00000078349	3.458868	1.136761	34.07132	5.31E-09	4.47E-07	NA	AW011738
ENSMUSG00000027750	2.727046	11.06385	33.9838	5.56E-09	4.64E-07	50706	Postn
ENSMUSG00000074577	1.893596	3.51296	33.96343	5.62E-09	4.66E-07	69553	Fam65c
ENSMUSG00000025930	1.964448	7.192693	33.91837	5.75E-09	4.73E-07	17681	Msc
ENSMUSG00000025521	1.247476	4.320156	33.89413	5.82E-09	4.76E-07	73067	Tmem192
ENSMUSG00000026896	1.143516	6.185019	33.86873	5.90E-09	4.79E-07	71586	Ifih1
ENSMUSG00000024776	1.064485	6.022231	33.79485	6.12E-09	4.94E-07	NA	Stambpl1
ENSMUSG00000023972	1.338965	5.495423	33.74321	6.29E-09	5.04E-07	71461	Ptk7
ENSMUSG00000037568	1.550728	4.423773	33.63839	6.64E-09	5.28E-07	226841	Vash2
ENSMUSG00000027890	-1.02448	4.203896	33.45934	7.28E-09	5.75E-07	NA	Gstm4
ENSMUSG00000025068	1.416851	5.117705	33.3199	7.82E-09	6.14E-07	14873	Gsto1
ENSMUSG00000004415	-1.61808	3.441495	33.29508	7.92E-09	6.18E-07	140709	Col26a1
ENSMUSG00000048915	-1.60062	2.784856	33.14188	8.57E-09	6.64E-07	13640	Efna5
ENSMUSG00000041347	1.472812	3.315601	32.90967	9.65E-09	7.41E-07	12061	Bdkrb1
ENSMUSG00000026697	-1.22235	8.865439	32.90528	9.68E-09	7.41E-07	17926	Myoc
ENSMUSG00000000058	-1.82822	5.131897	32.79766	1.02E-08	7.78E-07	12390	Cav2
ENSMUSG00000019970	1.336885	10.19747	32.72181	1.06E-08	8.04E-07	20393	Sgk1
ENSMUSG00000064325	-2.42054	5.066709	32.68332	1.08E-08	8.09E-07	15245	Hhip
ENSMUSG00000032374	1.116417	7.642077	32.68886	1.08E-08	8.09E-07	26432	Plod2
ENSMUSG00000004655	-3.46628	4.849398	32.66075	1.10E-08	8.14E-07	11826	Aqp1
ENSMUSG00000031722	3.459408	1.506581	32.59837	1.13E-08	8.35E-07	15439	Hp
ENSMUSG00000032431	1.044416	7.578861	32.46887	1.21E-08	8.87E-07	56693	Crtap
ENSMUSG00000034842	1.078918	4.442281	32.41935	1.24E-08	9.04E-07	109979	Art3
ENSMUSG00000068245	1.247164	5.608169	32.17226	1.41E-08	1.02E-06	219132	Phf11d
ENSMUSG00000005124	2.003699	5.231289	32.13956	1.43E-08	1.03E-06	22402	Wisp1
ENSMUSG00000032232	-1.09937	5.303187	31.9965	1.54E-08	1.10E-06	68178	Cgnl1
ENSMUSG00000035493	-1.20469	8.849596	31.7837	1.72E-08	1.22E-06	21810	Tgfb1
ENSMUSG00000024211	-1.49852	3.443259	31.50428	1.99E-08	1.39E-06	14823	Grm8
ENSMUSG00000100975	-1.08429	4.343289	31.37497	2.13E-08	1.48E-06	NA	Gm28875
ENSMUSG00000032118	-1.23257	5.033911	31.22496	2.30E-08	1.59E-06	NA	Fez1
ENSMUSG00000068566	-1.04112	8.263304	31.04074	2.53E-08	1.73E-06	NA	Myadm
ENSMUSG00000032997	1.249813	7.307679	31.02571	2.55E-08	1.74E-06	74241	Chpf
ENSMUSG00000028476	-1.13271	6.305571	30.88486	2.74E-08	1.86E-06	53614	Reck
ENSMUSG00000022559	1.005439	4.464815	30.799	2.86E-08	1.93E-06	30840	Fbxl6
ENSMUSG00000040133	4.352077	1.326716	30.64791	3.09E-08	2.07E-06	381413	Gpr176
ENSMUSG00000028641	1.272903	8.178903	30.57937	3.20E-08	2.14E-06	56401	Lepre1
ENSMUSG00000031934	1.645356	5.807885	30.25448	3.79E-08	2.51E-06	55991	Panx1
ENSMUSG00000095687	1.753785	5.527218	30.12828	4.04E-08	2.65E-06	1E+08	Rnaset2a
ENSMUSG00000094724	1.105757	7.749677	30.03554	4.24E-08	2.77E-06	68195	Rnaset2b
ENSMUSG00000043445	1.054221	4.501461	29.79504	4.80E-08	3.12E-06	67078	Pgp
ENSMUSG00000024529	1.771392	9.697904	29.76608	4.87E-08	3.15E-06	NA	Lox
ENSMUSG00000031465	-1.74837	3.69154	29.50911	5.57E-08	3.53E-06	11601	Angpt2
ENSMUSG00000038233	-1.18905	4.883071	29.50195	5.59E-08	3.53E-06	245050	Fam198a
ENSMUSG00000055322	-1.16588	6.761586	29.40565	5.87E-08	3.69E-06	NA	Tns1
ENSMUSG00000020614	1.119654	5.012688	29.35235	6.03E-08	3.75E-06	208659	Fam20a
ENSMUSG00000054293	-1.5243	3.232352	29.32949	6.11E-08	3.78E-06	NA	A630033H2ORik

ENSMUSG00000024371	-1.11013	5.644548	29.29024	6.23E-08	3.83E-06	12263	C2
ENSMUSG00000026123	-1.26113	3.762243	29.23657	6.41E-08	3.92E-06	226971	Plekhhb2
ENSMUSG00000032033	3.818887	1.051657	29.17943	6.60E-08	4.00E-06	12023	Barx2
ENSMUSG00000028037	3.731407	2.723794	29.1638	6.65E-08	4.01E-06	99899	Ifi44
ENSMUSG00000073775	1.135657	5.044431	29.1019	6.87E-08	4.10E-06	100087	Kti12
ENSMUSG00000095463	1.35226	4.985286	28.82917	7.91E-08	4.70E-06	67464	Entpd4
ENSMUSG00000097048	1.510687	4.070289	28.80674	8.00E-08	4.73E-06	NA	1600020E01Rik
ENSMUSG00000091811	1.10571	4.2698	28.73373	8.30E-08	4.88E-06	66300	Inafm1
ENSMUSG00000041936	1.381423	4.302035	28.50475	9.35E-08	5.44E-06	11603	Agrr
ENSMUSG00000067276	1.254982	7.303428	28.45491	9.59E-08	5.53E-06	12338	Capn6
ENSMUSG00000020486	1.0188	5.614862	28.43651	9.68E-08	5.56E-06	18952	4-Sep
ENSMUSG00000028494	1.420417	8.308009	28.3763	9.99E-08	5.71E-06	11520	Plin2
ENSMUSG00000063388	2.056617	3.863569	28.24063	1.07E-07	6.08E-06	NA	BC023105
ENSMUSG00000022965	1.058704	6.412302	28.23334	1.08E-07	6.08E-06	15980	Ifngr2
ENSMUSG00000070348	-1.66495	4.177589	28.08877	1.16E-07	6.50E-06	12443	Ccnd1
ENSMUSG00000040253	1.341064	6.04378	28.08615	1.16E-07	6.50E-06	NA	Gbp7
ENSMUSG00000032006	-1.26313	4.694132	27.78848	1.35E-07	7.55E-06	71785	Pdgfd
ENSMUSG00000024030	1.896428	3.400572	27.73569	1.39E-07	7.72E-06	11307	Abcg1
ENSMUSG00000004035	-1.91673	2.171812	27.68337	1.43E-07	7.90E-06	68312	Gstm7
ENSMUSG00000031343	-1.04868	5.920724	27.65863	1.45E-07	7.96E-06	14396	Gabra3
ENSMUSG00000026094	1.028163	5.272278	27.62155	1.48E-07	8.04E-06	98267	Stk17b
ENSMUSG00000002068	1.891031	3.53355	27.52918	1.55E-07	8.40E-06	12447	Ccne1
ENSMUSG00000039942	1.072243	6.047246	27.50013	1.57E-07	8.49E-06	19219	Ptger4
ENSMUSG00000030220	-1.29044	4.83109	27.44559	1.62E-07	8.69E-06	NA	Arhgdib
ENSMUSG00000035268	1.072358	4.983746	27.35839	1.69E-07	9.05E-06	NA	Pkig
ENSMUSG00000021062	1.334778	3.465773	27.21342	1.82E-07	9.71E-06	104886	Rab15
ENSMUSG00000042961	-1.52043	4.273156	27.16305	1.87E-07	9.88E-06	268780	Egflam
ENSMUSG00000028088	-1.01759	4.593273	27.1626	1.87E-07	9.88E-06	14263	Fmo5
ENSMUSG00000078920	1.74098	3.992663	27.14303	1.89E-07	9.94E-06	NA	Ifi47
ENSMUSG00000034459	2.91944	7.687917	27.0903	1.94E-07	1.01E-05	15957	Ifit1
ENSMUSG00000034324	-1.67182	2.346734	27.08768	1.94E-07	1.01E-05	208213	Tmem132c
ENSMUSG00000038775	-1.78694	2.844326	27.08793	1.94E-07	1.01E-05	22351	Vill
ENSMUSG00000091017	-1.84572	2.484869	27.07282	1.96E-07	1.01E-05	619288	Fam71a
ENSMUSG00000031825	-1.03688	8.821625	27.01613	2.02E-07	1.04E-05	78892	Crispld2
ENSMUSG00000046808	-1.41372	3.39679	27.00766	2.03E-07	1.04E-05	NA	Atp10d
ENSMUSG00000025742	-1.15448	3.433857	26.96067	2.08E-07	1.06E-05	110639	Prps2
ENSMUSG00000017057	1.504277	7.196216	26.83279	2.22E-07	1.13E-05	16164	Il13ra1
ENSMUSG00000044337	-1.37057	7.741936	26.82317	2.23E-07	1.13E-05	12778	Ackr3
ENSMUSG00000031616	1.245541	5.627423	26.75745	2.31E-07	1.16E-05	13617	Ednra
ENSMUSG00000029061	1.042684	6.354508	26.74644	2.32E-07	1.16E-05	26561	Mmp23
ENSMUSG00000030737	-1.35882	6.986528	26.72329	2.35E-07	1.17E-05	NA	Slco2b1
ENSMUSG00000000223	-1.7801	2.676052	26.7062	2.37E-07	1.17E-05	13497	Drp2
ENSMUSG00000000184	-1.05886	7.004892	26.68544	2.39E-07	1.18E-05	12444	Ccnd2
ENSMUSG00000040548	-1.04113	4.389181	26.68986	2.39E-07	1.18E-05	21763	Tex2
ENSMUSG00000030701	-2.02857	4.631693	26.6147	2.48E-07	1.22E-05	27276	Plekhhb1
ENSMUSG00000032380	-1.37514	4.275822	26.59626	2.51E-07	1.22E-05	13143	Dapk2
ENSMUSG00000068196	1.645341	9.010325	26.53666	2.59E-07	1.24E-05	12837	Col8a1

ENSMUSG00000031604	-1.23147	5.084663	26.53075	2.59E-07	1.24E-05	66234	Msmo1
ENSMUSG00000000386	2.897847	2.628034	26.47428	2.67E-07	1.28E-05	NA	Mx1
ENSMUSG00000062960	-1.69642	2.598316	26.4285	2.73E-07	1.30E-05	16542	Kdr
ENSMUSG00000032332	1.16377	7.101924	26.41227	2.76E-07	1.30E-05	NA	Col12a1
ENSMUSG00000022425	-1.21895	9.567774	26.34089	2.86E-07	1.35E-05	18606	Enpp2
ENSMUSG00000030209	-2.48197	1.203406	26.30583	2.91E-07	1.36E-05	NA	Grin2b
ENSMUSG00000031636	2.723983	1.502541	26.26642	2.97E-07	1.39E-05	53318	Pdlim3
ENSMUSG00000025511	1.136295	7.297936	26.25182	3.00E-07	1.39E-05	NA	Tspan4
ENSMUSG00000079105	-1.42434	6.298874	26.18276	3.11E-07	1.44E-05	109828	C7
ENSMUSG00000030111	-4.32565	2.544954	26.12725	3.20E-07	1.47E-05	232345	A2m
ENSMUSG00000032688	-1.10363	3.967353	25.88431	3.63E-07	1.65E-05	240354	Malt1
ENSMUSG00000032281	-2.94642	1.827376	25.86851	3.65E-07	1.65E-05	94180	Acsbg1
ENSMUSG00000058258	-2.04219	4.99292	25.84089	3.71E-07	1.67E-05	319554	Idi1
ENSMUSG00000034037	-1.06592	4.173689	25.7624	3.86E-07	1.73E-05	232237	Fgd5
ENSMUSG00000044534	-1.65838	4.162765	25.72549	3.94E-07	1.76E-05	59289	Ackr2
ENSMUSG00000033208	-1.96879	2.309517	25.57161	4.26E-07	1.89E-05	20203	S100b
ENSMUSG00000058914	2.549143	7.718312	25.40043	4.66E-07	2.04E-05	81799	C1qtnf3
ENSMUSG00000090272	1.20717	6.861164	25.36225	4.75E-07	2.06E-05	1E+08	Mndal
ENSMUSG00000026749	1.125107	5.865794	25.36498	4.74E-07	2.06E-05	NA	Nek6
ENSMUSG00000075707	2.219345	1.826356	25.29312	4.92E-07	2.13E-05	107585	Dio3
ENSMUSG00000030862	-1.1988	6.62817	25.03643	5.63E-07	2.41E-05	55987	Cpxm2
ENSMUSG00000038155	-1.7095	2.000377	25.03724	5.62E-07	2.41E-05	14869	Gstp2
ENSMUSG00000000732	-1.30175	5.693997	25.04891	5.59E-07	2.41E-05	50723	Icosl
ENSMUSG00000097767	-2.22763	1.673235	24.97641	5.80E-07	2.47E-05	NA	Miat
ENSMUSG00000090231	1.071316	7.713675	24.9423	5.91E-07	2.51E-05	14962	Cfb
ENSMUSG00000087259	-1.47174	4.078847	24.59655	7.07E-07	2.97E-05	NA	2610035D17Rik
ENSMUSG00000076431	1.425623	4.58477	24.54043	7.28E-07	3.05E-05	20677	Sox4
ENSMUSG00000040037	-1.40847	4.102009	24.43494	7.69E-07	3.21E-05	320840	Negr1
ENSMUSG00000030116	1.024876	11.3828	24.41184	7.78E-07	3.24E-05	50530	Mfap5
ENSMUSG00000000416	-1.58825	2.751193	24.15364	8.89E-07	3.65E-05	NA	Cttnbp2
ENSMUSG00000038151	-2.62372	1.898637	24.13155	9.00E-07	3.67E-05	12142	Prdm1
ENSMUSG00000017417	-2.21482	3.920871	24.109	9.10E-07	3.70E-05	72324	Plxdc1
ENSMUSG00000018500	1.334086	5.690715	24.01041	9.58E-07	3.85E-05	11541	Adora2b
ENSMUSG00000036181	1.130206	4.541275	24.01137	9.58E-07	3.85E-05	50708	Hist1h1c
ENSMUSG00000038235	-2.09377	3.330962	23.95779	9.85E-07	3.93E-05	16456	F11r
ENSMUSG00000022860	1.527867	5.223485	23.86933	1.03E-06	4.05E-05	246048	Chodl
ENSMUSG00000063954	1.53684	3.441081	23.83287	1.05E-06	4.11E-05	319192	Hist2h2aa1
ENSMUSG00000032289	-1.80901	1.863087	23.80826	1.06E-06	4.15E-05	207596	Thsd4
ENSMUSG00000044667	-2.28831	1.576269	23.7687	1.09E-06	4.22E-05	229791	Lppr4
ENSMUSG00000085977	3.274987	1.103099	23.7471	1.10E-06	4.24E-05	NA	Gm5970
ENSMUSG00000057969	-1.23785	4.841801	23.75284	1.10E-06	4.24E-05	20347	Sema3b
ENSMUSG00000032285	-1.06172	4.213144	23.72041	1.11E-06	4.28E-05	58233	Dnaja4
ENSMUSG00000032327	-1.94022	4.201379	23.49352	1.25E-06	4.77E-05	NA	Stra6
ENSMUSG00000028194	3.427548	3.635104	23.36458	1.34E-06	5.05E-05	69219	Ddah1
ENSMUSG00000000325	-1.12896	3.99973	23.34322	1.36E-06	5.09E-05	11877	Arvcf
ENSMUSG00000078853	1.271011	6.118087	23.29366	1.39E-06	5.20E-05	16145	Igtp
ENSMUSG00000035314	-1.33624	3.434747	23.27214	1.41E-06	5.25E-05	233552	Gdpd5

ENSMUSG00000057457	-2.31239	1.803697	23.22753	1.44E-06	5.35E-05	18675	Phex
ENSMUSG00000003617	-1.20751	8.000264	23.19109	1.47E-06	5.42E-05	12870	Cp
ENSMUSG00000022094	1.874949	5.35879	23.12447	1.52E-06	5.60E-05	213053	Slc39a14
ENSMUSG00000086331	-2.00306	1.512245	22.94118	1.67E-06	6.12E-05	NA	Gm16310
ENSMUSG00000048234	1.058879	3.723592	22.94213	1.67E-06	6.12E-05	67702	Rnf149
ENSMUSG00000059146	-1.81223	2.240671	22.89992	1.71E-06	6.23E-05	18213	Ntrk3
ENSMUSG00000068794	-1.17425	4.830308	22.85899	1.74E-06	6.33E-05	213945	Col28a1
ENSMUSG00000028381	1.216891	5.112504	22.83036	1.77E-06	6.36E-05	22234	Ugcg
ENSMUSG00000039254	-1.40295	4.640497	22.81303	1.79E-06	6.40E-05	99011	Pomt1
ENSMUSG00000036885	1.619958	2.836519	22.77409	1.82E-06	6.49E-05	622434	Arhgef26
ENSMUSG00000040549	-1.01241	5.026368	22.7485	1.85E-06	6.56E-05	75786	Ckap5
ENSMUSG00000024130	-1.15411	4.271664	22.2871	2.35E-06	8.19E-05	NA	Abca3
ENSMUSG00000033883	-9.45917	1.663943	22.28365	2.35E-06	8.19E-05	241944	D3Ert254e
ENSMUSG00000015396	-1.20198	3.429527	22.23771	2.41E-06	8.36E-05	12522	Cd83
ENSMUSG00000022066	1.305271	4.371585	22.111	2.57E-06	8.91E-05	1.01E+08	Gm21685
ENSMUSG00000039377	1.201511	4.563236	22.09056	2.60E-06	8.97E-05	15284	Hlx
ENSMUSG00000062488	2.19365	5.333422	21.86549	2.92E-06	0.0001	667370	I830012O16Rik
ENSMUSG00000044244	-1.41981	4.365628	21.84245	2.96E-06	0.000101	213208	Il20rb
ENSMUSG00000008999	-1.58243	4.855349	21.83025	2.98E-06	0.000101	12162	Bmp7
ENSMUSG00000067071	1.110907	4.537084	21.8015	3.02E-06	0.000103	55927	Hes6
ENSMUSG00000052942	1.233515	3.319802	21.7447	3.11E-06	0.000105	226075	Glis3
ENSMUSG00000023966	-1.37664	2.567679	21.7146	3.16E-06	0.000106	75564	Rsph9
ENSMUSG00000070327	1.416598	6.294944	21.67238	3.23E-06	0.000108	672511	Rnf213
ENSMUSG00000035232	1.057485	4.787234	21.66258	3.25E-06	0.000108	236900	Pdk3
ENSMUSG00000037321	1.071669	5.468899	21.54334	3.46E-06	0.000114	21354	Tap1
ENSMUSG00000052974	-1.2876	4.353194	21.46919	3.60E-06	0.000118	13107	Cyp2f2
ENSMUSG00000043924	-1.53721	3.395885	21.41324	3.70E-06	0.000121	NA	Ncmmap
ENSMUSG00000031762	1.162728	6.979268	21.36259	3.80E-06	0.000124	17750	Mt2
ENSMUSG00000007653	-2.9004	0.982924	21.35189	3.82E-06	0.000124	14401	Gabrb2
ENSMUSG00000024378	-1.51264	4.509166	21.34753	3.83E-06	0.000124	170459	Stard4
ENSMUSG00000020044	-1.04626	9.557146	21.32648	3.87E-06	0.000125	21859	Timp3
ENSMUSG00000033880	1.188667	7.605377	21.32042	3.89E-06	0.000125	19039	Lgals3bp
ENSMUSG00000036766	-3.45368	1.360614	21.26895	3.99E-06	0.000128	227325	Dner
ENSMUSG00000030793	-1.09322	4.697597	21.25985	4.01E-06	0.000128	66824	Pycard
ENSMUSG00000090862	-1.63152	4.371332	21.24362	4.04E-06	0.000129	68052	Rps13
ENSMUSG00000031891	2.363607	2.951767	21.2168	4.10E-06	0.00013	15484	Hsd11b2
ENSMUSG00000047747	1.14989	3.458529	21.16786	4.21E-06	0.000133	330812	Rnf150
ENSMUSG00000026558	1.88088	4.845851	20.98867	4.62E-06	0.000145	80914	Uck2
ENSMUSG00000030616	-2.0173	2.437523	20.93503	4.75E-06	0.000148	83671	Sytl2
ENSMUSG00000000088	1.024883	5.18522	20.90464	4.83E-06	0.00015	12858	Cox5a
ENSMUSG00000020598	-1.4118	2.945943	20.81797	5.05E-06	0.000156	319504	Nrcam
ENSMUSG00000051177	-1.35161	3.535367	20.55809	5.78E-06	0.000174	18795	Plcb1
ENSMUSG00000045954	-1.20012	4.823856	20.53351	5.86E-06	0.000176	20324	Sdpr
ENSMUSG00000038811	-1.27511	2.811556	20.51031	5.93E-06	0.000177	NA	Gngt2
ENSMUSG00000021573	-1.11753	3.107107	20.45701	6.10E-06	0.000182	72948	Tppp
ENSMUSG00000023341	2.022121	4.470667	20.44976	6.12E-06	0.000182	17858	Mx2
ENSMUSG00000102762	-1.70306	1.603688	20.40616	6.26E-06	0.000185	NA	RP23-134L6.5

ENSMUSG00000029591	1.658473	2.047745	20.37866	6.35E-06	0.000187	22256	Ung
ENSMUSG000000051339	-1.3346	3.293966	20.30742	6.59E-06	0.000193	243219	2900026A02Rik
ENSMUSG000000002020	2.238924	3.474037	20.27461	6.71E-06	0.000196	16997	Ltbp2
ENSMUSG000000041827	2.396243	2.696283	20.19646	6.99E-06	0.000203	NA	Oasl1
ENSMUSG000000051256	1.019051	5.004448	20.05224	7.54E-06	0.000218	67767	Jagn1
ENSMUSG000000022099	-1.26349	3.496168	19.95744	7.92E-06	0.000227	NA	Dmtn
ENSMUSG000000029561	1.522123	6.080323	19.94519	7.97E-06	0.000228	NA	Oasl2
ENSMUSG000000074158	-1.83157	2.318467	19.89049	8.20E-06	0.000234	208111	9830147E19Rik
ENSMUSG000000033032	-1.53931	2.070003	19.74586	8.85E-06	0.000251	106877	Afap1l1
ENSMUSG000000049313	-1.40981	5.164076	19.62987	9.40E-06	0.000264	20660	Sorl1
ENSMUSG000000074865	-1.75423	1.934334	19.58514	9.62E-06	0.00027	77117	Zfp934
ENSMUSG000000006014	1.279647	9.185595	19.55545	9.77E-06	0.000273	96875	Prg4
ENSMUSG000000035208	2.212465	3.849486	19.54115	9.85E-06	0.000274	276950	Slfm8
ENSMUSG000000069601	1.121148	3.871382	19.49994	1.01E-05	0.000278	11735	Ank3
ENSMUSG000000011008	2.18767	5.078427	19.48931	1.01E-05	0.000279	68279	Mcoln2
ENSMUSG000000040612	-1.17283	3.161289	19.43798	1.04E-05	0.000286	1E+08	Ildr2
ENSMUSG000000025612	1.000425	5.790905	19.39727	1.06E-05	0.000291	12013	Bach1
ENSMUSG000000049336	-2.22851	3.319015	19.37062	1.08E-05	0.000295	23964	Tenm2
ENSMUSG000000052316	1.739211	2.483458	19.34695	1.09E-05	0.000298	74488	Lrrc15
ENSMUSG000000020154	-2.32358	2.37476	19.31311	1.11E-05	0.000302	19263	Ptprb
ENSMUSG000000029484	-1.07571	6.358244	19.24794	1.15E-05	0.000312	11745	Anxa3
ENSMUSG000000027524	-2.05884	1.868431	19.21159	1.17E-05	0.000317	13616	Edn3
ENSMUSG000000087088	-1.69254	2.033926	19.21032	1.17E-05	0.000317	NA	Gm16638
ENSMUSG000000007655	-1.27798	8.107678	19.20258	1.18E-05	0.000317	12389	Cav1
ENSMUSG000000038280	1.016659	5.909586	19.19875	1.18E-05	0.000317	14628	Ostm1
ENSMUSG000000028518	-1.63632	1.864037	19.18648	1.19E-05	0.000319	108079	Prkaa2
ENSMUSG000000003355	1.296086	4.831465	19.13844	1.22E-05	0.000326	66120	Fkbp11
ENSMUSG000000025892	-2.60458	3.157801	19.11637	1.23E-05	0.000329	14802	Gria4
ENSMUSG000000013523	-2.69698	0.984233	19.08158	1.25E-05	0.000334	76960	Bcas1
ENSMUSG000000039611	-1.46042	3.051845	18.85606	1.41E-05	0.000372	67063	Tmem246
ENSMUSG000000029217	-2.45156	2.372119	18.78619	1.46E-05	0.000385	21682	Tec
ENSMUSG000000018263	-1.48425	3.167902	18.63361	1.58E-05	0.00041	21388	Tbx5
ENSMUSG000000048280	-1.27286	2.470853	18.5861	1.62E-05	0.00042	408068	Zfp738
ENSMUSG000000016194	-1.0292	7.373958	18.53564	1.67E-05	0.00043	NA	Hsd11b1
ENSMUSG000000033377	-2.26374	1.033721	18.52716	1.68E-05	0.000431	114301	Palmd
ENSMUSG000000066677	1.627329	1.892294	18.48703	1.71E-05	0.000438	1E+08	Pydc3
ENSMUSG000000048078	2.131445	2.800952	18.47708	1.72E-05	0.000439	NA	Tenm4
ENSMUSG000000070880	-2.23373	2.918687	18.42729	1.77E-05	0.000447	14415	Gad1
ENSMUSG000000016763	-2.15707	3.412269	18.43146	1.76E-05	0.000447	64706	Scube1
ENSMUSG000000032690	2.447569	3.977981	18.34611	1.84E-05	0.000464	246728	Oas2
ENSMUSG000000031302	-1.4236	2.967987	18.32966	1.86E-05	0.000466	245537	Nlgn3
ENSMUSG000000021360	1.033731	4.709113	18.30034	1.89E-05	0.000472	14538	Gcnt2
ENSMUSG000000022018	1.796705	6.720753	18.28209	1.90E-05	0.000476	66214	Rgcc
ENSMUSG000000029727	-2.32486	1.495661	18.13192	2.06E-05	0.000511	13113	Cyp3a13
ENSMUSG000000051048	2.543247	4.783463	18.08689	2.11E-05	0.00052	320452	P4ha3
ENSMUSG000000028362	2.19684	2.841414	18.0259	2.18E-05	0.000532	21949	Tnfsf8
ENSMUSG000000028626	-1.91386	3.694737	18.00576	2.20E-05	0.000536	12840	Col9a2

ENSMUSG00000078201	1.062076	3.473124	18.00876	2.20E-05	0.000536	227615	Tmem203
ENSMUSG00000031273	-1.94903	1.921619	17.96527	2.25E-05	0.000546	94216	Col4a6
ENSMUSG00000075391	7.522946	1.258093	17.89183	2.34E-05	0.000566	NA	Gm13443
ENSMUSG00000002489	-1.60632	3.11115	17.79794	2.46E-05	0.000594	21844	Tiam1
ENSMUSG00000041624	-1.06947	3.514909	17.75499	2.51E-05	0.000606	234889	Gucy1a2
ENSMUSG00000046727	-1.00304	4.076267	17.7125	2.57E-05	0.000618	66060	Cystm1
ENSMUSG00000020638	1.204464	5.319624	17.61837	2.70E-05	0.000642	22169	Cmpk2
ENSMUSG00000034040	1.066727	5.292006	17.58478	2.75E-05	0.000651	212996	Wbscr17
ENSMUSG00000097061	1.19332	3.176829	17.5715	2.77E-05	0.000654	NA	9330151L19Rik
ENSMUSG00000062151	-2.83927	1.844197	17.52114	2.84E-05	0.000669	NA	Unc13c
ENSMUSG00000046079	-1.04296	4.002662	17.50643	2.86E-05	0.000673	NA	Lrrc8d
ENSMUSG00000022177	1.206261	3.861239	17.48089	2.90E-05	0.000681	219072	Haus4
ENSMUSG00000038543	1.106953	3.206487	17.46345	2.93E-05	0.000686	NA	BC028528
ENSMUSG00000022844	1.037322	5.545255	17.4219	2.99E-05	0.000699	72599	Pdia5
ENSMUSG00000024164	-1.10971	8.916433	17.37547	3.07E-05	0.000714	12266	C3
ENSMUSG00000066363	1.672563	2.629391	17.24357	3.29E-05	0.000752	NA	Serpina3f
ENSMUSG00000071856	-1.14146	5.680112	17.22219	3.33E-05	0.000759	328949	Mcc
ENSMUSG00000072694	1.227639	4.43655	17.21317	3.34E-05	0.000761	NA	1500011B03Rik
ENSMUSG00000021728	2.156461	5.407945	17.20313	3.36E-05	0.000764	13723	Emb
ENSMUSG00000039153	1.206415	4.014647	17.1956	3.37E-05	0.000765	12393	Runx2
ENSMUSG00000029335	-1.86802	2.611082	17.17431	3.41E-05	0.000773	110075	Bmp3
ENSMUSG00000003452	-1.20564	2.828244	17.09869	3.55E-05	0.000796	12121	Bicd1
ENSMUSG00000021219	-2.75084	1.351749	17.07559	3.59E-05	0.000805	50779	Rgs6
ENSMUSG00000043557	1.420667	3.007317	17.00662	3.72E-05	0.000828	74762	Mdga1
ENSMUSG00000027792	-2.53218	1.924587	16.96922	3.80E-05	0.00084	12038	Bche
ENSMUSG00000094127	-2.44582	2.49976	16.92779	3.88E-05	0.000854	NA	G530012D18Rik
ENSMUSG00000084497	1.475457	1.848852	16.89169	3.96E-05	0.000865	NA	Gm22107
ENSMUSG00000034755	-1.62496	2.028977	16.82941	4.09E-05	0.000889	245578	Pcdh11x
ENSMUSG00000049881	1.305321	3.46338	16.80379	4.15E-05	0.0009	NA	2810025M15Rik
ENSMUSG00000054855	1.38909	4.163442	16.80082	4.15E-05	0.0009	223881	Rnd1
ENSMUSG00000026688	-1.65683	4.17205	16.73856	4.29E-05	0.00092	66447	Mgst3
ENSMUSG00000022661	-1.17841	5.199277	16.70831	4.36E-05	0.000933	17470	Cd200
ENSMUSG00000000197	-2.6278	2.976542	16.66919	4.45E-05	0.000949	338370	Nalcn
ENSMUSG00000030218	1.003439	9.225367	16.64916	4.50E-05	0.000955	17313	Mgp
ENSMUSG00000032420	-2.49988	4.869334	16.58568	4.65E-05	0.000983	23959	Nt5e
ENSMUSG00000034285	-1.52922	2.159521	16.52654	4.80E-05	0.001008	18082	Nipsnap1
ENSMUSG00000060459	1.301442	3.586153	16.51573	4.82E-05	0.001012	385643	Kng2
ENSMUSG00000023913	-1.61147	3.494891	16.5111	4.84E-05	0.001013	27226	Pla2g7
ENSMUSG00000031286	-1.8336	1.533323	16.50333	4.86E-05	0.001015	320302	Glt28d2
ENSMUSG00000010529	1.706014	2.803146	16.49738	4.87E-05	0.001017	212539	Gm266
ENSMUSG00000050010	-2.00976	4.377607	16.48835	4.90E-05	0.00102	330096	Shisa3
ENSMUSG00000035373	1.298468	8.924218	16.40123	5.13E-05	0.001055	20306	Ccl7
ENSMUSG00000022353	-1.2655	2.972656	16.27996	5.46E-05	0.001111	211401	Mtss1
ENSMUSG00000032719	-1.66099	5.324247	16.2502	5.55E-05	0.001126	226866	Sbspon
ENSMUSG00000041235	-1.72004	2.205287	16.22445	5.63E-05	0.001139	320790	Chd7
ENSMUSG00000068270	-1.90545	1.274132	16.18252	5.75E-05	0.00116	NA	Shroom4
ENSMUSG00000032131	-1.55742	2.004771	16.17468	5.78E-05	0.001163	192663	Abcg4

ENSMUSG00000040483	1.026219	5.622795	16.14154	5.88E-05	0.001179	327959	Xaf1
ENSMUSG00000020592	1.086948	6.75447	16.10712	5.99E-05	0.001199	20969	Sdc1
ENSMUSG00000027680	2.666261	2.711547	16.07492	6.09E-05	0.001215	14359	Fxr1
ENSMUSG00000056966	-1.31544	2.565561	15.98539	6.38E-05	0.001268	118446	Gjc3
ENSMUSG00000026249	1.007896	9.05506	15.87877	6.75E-05	0.00133	20720	Serpine2
ENSMUSG00000039519	1.296607	2.858565	15.8657	6.80E-05	0.001337	13123	Cyp7b1
ENSMUSG00000021259	1.310021	2.490389	15.81795	6.97E-05	0.001367	13116	Cyp46a1
ENSMUSG00000001020	-1.53493	3.572346	15.79611	7.05E-05	0.001381	20198	S100a4
ENSMUSG00000034648	-2.14286	2.144871	15.76759	7.16E-05	0.001397	16979	Lrrn1
ENSMUSG00000034394	-1.0891	3.934352	15.75601	7.21E-05	0.001403	16878	Lif
ENSMUSG00000078921	2.08414	4.272594	15.66133	7.58E-05	0.001466	1E+08	Tgtp2
ENSMUSG00000024747	-2.11257	2.230215	15.64225	7.65E-05	0.001476	26358	Aldh1a7
ENSMUSG00000032911	-1.21011	4.336765	15.57296	7.94E-05	0.001526	121021	Cspg4
ENSMUSG00000042010	-1.57904	2.616981	15.5488	8.04E-05	0.001541	NA	Acacb
ENSMUSG00000022483	-3.1136	1.186288	15.53181	8.11E-05	0.001552	12824	Col2a1
ENSMUSG00000001281	-1.99736	1.708466	15.46824	8.39E-05	0.001595	16421	Itgb7
ENSMUSG00000069874	1.08777	5.995878	15.41106	8.65E-05	0.001641	54396	Irgm2
ENSMUSG00000032946	-1.31851	3.728312	15.36036	8.88E-05	0.001681	NA	Rasgrp2
ENSMUSG00000024176	-1.18181	3.244685	15.35477	8.91E-05	0.001683	20681	Sox8
ENSMUSG00000066362	6.509151	4.09947	15.32081	9.07E-05	0.001708	NA	Rps13-ps1
ENSMUSG00000003665	1.310335	11.94293	15.25664	9.38E-05	0.001764	15116	Has1
ENSMUSG00000015533	-1.4947	1.831952	15.18279	9.76E-05	0.001829	16398	Itga2
ENSMUSG00000085399	-1.60088	2.633374	15.15909	9.88E-05	0.001846	NA	Foxd2os
ENSMUSG00000000120	-1.43922	5.242176	15.14448	9.96E-05	0.001858	18053	Ngfr
ENSMUSG00000045875	-1.1933	3.478726	15.11466	0.000101	0.001876	11549	Adra1a
ENSMUSG00000037852	-1.73842	7.839455	15.03007	0.000106	0.001946	12876	Cpe
ENSMUSG00000030653	-2.05388	3.18372	15.02757	0.000106	0.001946	207728	Pde2a
ENSMUSG00000042700	-1.23979	4.041549	15.00441	0.000107	0.001967	217692	Sipa1l1
ENSMUSG00000027574	-2.17037	1.442386	14.99364	0.000108	0.001975	58237	Nkain4
ENSMUSG00000033233	-1.19186	2.412801	14.98219	0.000109	0.001983	229644	Trim45
ENSMUSG00000031596	1.034103	4.091795	14.90286	0.000113	0.002051	11988	Slc7a2
ENSMUSG00000056069	1.290752	4.002893	14.89501	0.000114	0.002056	223433	Fam105a
ENSMUSG00000093930	-1.00538	6.16917	14.87257	0.000115	0.002074	208715	Hmgcs1
ENSMUSG00000000805	-3.43432	1.927171	14.84645	0.000117	0.002088	12351	Car4
ENSMUSG00000041134	-3.36381	0.822685	14.83642	0.000117	0.002092	224405	Cyyr1
ENSMUSG00000002831	-1.91711	1.869234	14.83706	0.000117	0.002092	57435	Plin4
ENSMUSG00000000275	1.56607	5.479998	14.82095	0.000118	0.002107	217069	Trim25
ENSMUSG00000021990	1.873508	1.502611	14.69951	0.000126	0.002227	219140	Spata13
ENSMUSG00000062591	-1.10826	4.652276	14.65453	0.000129	0.002274	22153	Tubb4a
ENSMUSG00000068686	-1.45456	1.867259	14.61481	0.000132	0.002315	333883	Cd59b
ENSMUSG00000044447	-1.08575	2.955486	14.58415	0.000134	0.00235	68813	Dock5
ENSMUSG00000074896	1.917607	7.423366	14.54211	0.000137	0.002391	15959	Ifit3
ENSMUSG00000046805	1.323275	1.978769	14.54018	0.000137	0.002391	17476	Mpeg1
ENSMUSG00000032009	1.137097	2.909227	14.53012	0.000138	0.002395	75747	Sesn3
ENSMUSG00000019832	1.019565	5.175945	14.52234	0.000139	0.0024	67844	Rab32
ENSMUSG00000075318	-1.44679	2.423406	14.37195	0.00015	0.002576	NA	Scn2a1
ENSMUSG00000071350	1.060737	3.830841	14.36971	0.00015	0.002576	239122	Setdb2

ENSMUSG00000020717	-1.38672	2.80633	14.28082	0.000157	0.002667	18613	Pecam1
ENSMUSG00000049999	1.055824	3.747359	14.26758	0.000159	0.002681	228966	Ppp1r3d
ENSMUSG00000022479	1.795791	1.800918	14.20758	0.000164	0.002753	22337	Vdr
ENSMUSG00000068397	7.66846	0.031517	14.19579	0.000165	0.002764	NA	Gm10240
ENSMUSG00000084383	7.667937	0.03152	14.19482	0.000165	0.002764	NA	Gm13370
ENSMUSG00000028871	-1.79266	1.558958	14.18134	0.000166	0.00278	192199	Rspo1
ENSMUSG00000041515	1.406961	3.282137	14.13228	0.00017	0.002841	15900	Irf8
ENSMUSG00000015850	-1.17615	5.619186	14.11803	0.000172	0.002855	NA	Adamtsl4
ENSMUSG00000021061	-1.75086	1.983911	14.0925	0.000174	0.002884	20741	Sptb
ENSMUSG00000059824	4.145596	5.342767	14.00636	0.000182	0.002992	13170	Dbp
ENSMUSG00000024727	-1.62398	2.256237	13.98738	0.000184	0.003014	225997	Trpm6
ENSMUSG00000037373	-1.71135	3.04396	13.98373	0.000184	0.003016	13016	Ctbp1
ENSMUSG00000022512	-1.63888	5.571282	13.97306	0.000185	0.003025	12737	Cldn1
ENSMUSG00000042106	1.0865	3.780738	13.95887	0.000187	0.003043	68176	Fam212a
ENSMUSG00000031871	-1.66135	2.297283	13.95342	0.000187	0.003048	12562	Cdh5
ENSMUSG00000039116	-1.99049	1.345	13.94017	0.000189	0.003062	215798	Gpr126
ENSMUSG00000035914	1.048866	4.646004	13.92881	0.00019	0.003069	102657	Cd276
ENSMUSG00000038086	-1.25912	2.469763	13.92553	0.00019	0.003069	69253	Hspb2
ENSMUSG00000050276	-3.73013	5.186534	13.92669	0.00019	0.003069	381974	Mrgprg
ENSMUSG00000085584	-2.04073	1.44524	13.86755	0.000196	0.003139	209540	Rgag1
ENSMUSG00000035095	-1.53124	2.715785	13.86394	0.000197	0.003141	219148	Fam167a
ENSMUSG00000020178	-1.41904	2.465627	13.85523	0.000197	0.003151	11540	Adora2a
ENSMUSG00000034173	1.193221	2.73056	13.80759	0.000203	0.003224	71970	Zbed5
ENSMUSG00000040699	1.004677	3.515812	13.78176	0.000205	0.003255	67803	Limd2
ENSMUSG00000049176	-1.68559	1.762471	13.76647	0.000207	0.003273	333605	Frmpd4
ENSMUSG00000031832	1.036164	2.856052	13.71174	0.000213	0.003361	NA	Taf1c
ENSMUSG00000046186	-1.26751	4.124357	13.70895	0.000213	0.003362	235505	Cd109
ENSMUSG00000031298	-1.43039	3.191125	13.68198	0.000217	0.003394	237175	Gpr64
ENSMUSG00000033191	-1.96097	1.917615	13.61426	0.000224	0.003499	21846	Tie1
ENSMUSG00000037872	-1.57784	3.561441	13.59584	0.000227	0.003519	13349	Ackr1
ENSMUSG00000052180	-1.76333	2.233423	13.59715	0.000227	0.003519	97848	Serpinb6c
ENSMUSG00000030725	1.226612	2.375668	13.5231	0.000236	0.003631	67164	Lipt2
ENSMUSG00000030254	1.282822	4.570599	13.52273	0.000236	0.003631	58186	Rad18
ENSMUSG00000049404	-1.36339	2.107684	13.5105	0.000237	0.00365	109222	Rarres1
ENSMUSG00000006442	1.039709	7.063249	13.50591	0.000238	0.003654	20810	Srm
ENSMUSG00000090387	-1.26681	2.335516	13.49329	0.000239	0.003655	NA	Gm17056
ENSMUSG00000017300	2.09081	2.533965	13.4946	0.000239	0.003655	21925	Tnnc2
ENSMUSG00000030399	2.565079	2.035474	13.45309	0.000245	0.003723	12715	Ckm
ENSMUSG00000030921	1.166184	3.628084	13.45167	0.000245	0.003723	20128	Trim30a
ENSMUSG00000036473	-1.08293	2.599072	13.44744	0.000245	0.003727	NA	Tbc1d24
ENSMUSG00000081143	-2.57422	1.861186	13.41414	0.00025	0.003784	NA	Gm15823
ENSMUSG00000068606	1.116355	2.523708	13.40824	0.000251	0.003791	225594	Gm4841
ENSMUSG00000042761	-2.62897	0.884507	13.39798	0.000252	0.003797	NA	Mrap2
ENSMUSG00000046718	1.242785	5.274539	13.33315	0.000261	0.003921	69550	Bst2
ENSMUSG00000015652	2.263489	1.71045	13.1004	0.000295	0.004357	70358	Steap1
ENSMUSG00000031994	1.962066	2.366346	13.09589	0.000296	0.004362	30806	Adamts8
ENSMUSG00000032193	-1.2931	5.504656	13.05331	0.000303	0.004451	16835	Ldlr

ENSMUSG00000025407	-1.52633	3.265686	12.98886	0.000313	0.004577	14632	Gli1
ENSMUSG00000035566	1.192604	3.471637	12.98735	0.000314	0.004577	219228	Pcdh17
ENSMUSG00000040703	-1.2439	2.377898	12.94856	0.00032	0.004662	74134	Cyp2s1
ENSMUSG00000037166	1.368141	2.719512	12.85904	0.000336	0.004837	68458	Ppp1r14a
ENSMUSG00000021273	-1.13427	3.468468	12.80889	0.000345	0.00495	14137	Fdft1
ENSMUSG00000006463	1.059765	3.576864	12.75254	0.000356	0.005089	70605	Zdhhc24
ENSMUSG00000036570	-2.167	1.988696	12.74693	0.000357	0.005099	NA	Fxyd1
ENSMUSG00000024827	1.895169	1.677015	12.73313	0.000359	0.00513	104174	Gldc
ENSMUSG00000052566	1.069566	2.904665	12.65613	0.000374	0.005309	170833	Hook2
ENSMUSG00000071477	1.083584	2.817421	12.52876	0.000401	0.005622	NA	Zfp777
ENSMUSG00000054545	1.326223	5.49987	12.49536	0.000408	0.005693	94284	Ugt1a6a
ENSMUSG00000025766	-1.08714	2.643835	12.43279	0.000422	0.005836	73852	D3ErtD751e
ENSMUSG00000029238	-1.02188	4.237004	12.36396	0.000438	0.006037	12753	Clock
ENSMUSG00000050271	1.891414	1.472786	12.29982	0.000453	0.006191	244418	D8ErtD82e
ENSMUSG00000037440	-1.50758	3.491073	12.23456	0.000469	0.006372	22361	Vnn1
ENSMUSG00000025813	-1.15251	2.181009	12.20787	0.000476	0.006422	26557	Homer2
ENSMUSG00000034940	-1.16563	3.18611	12.17555	0.000484	0.006525	217030	Synrg
ENSMUSG00000033768	-1.26598	2.119363	12.15741	0.000489	0.006566	18190	Nrxn2
ENSMUSG00000049882	1.085709	2.590199	12.14458	0.000492	0.006589	207965	Vcpkmt
ENSMUSG00000025154	-1.46479	1.575681	12.08924	0.000507	0.006742	71085	Arhgap19
ENSMUSG00000027215	-1.34036	3.047251	12.08147	0.000509	0.006756	NA	Cd82
ENSMUSG00000021097	-1.05038	2.397049	12.06549	0.000514	0.006795	94040	Clnn
ENSMUSG00000064220	1.1984	3.11484	12.06376	0.000514	0.006795	15267	Hist2h2aa2
ENSMUSG00000027994	1.394884	3.475229	12.05235	0.000517	0.006824	66815	Ccdc109b
ENSMUSG00000030672	2.390803	1.678962	12.02852	0.000524	0.006881	17907	Mylpf
ENSMUSG00000056214	1.013207	3.848243	12.00263	0.000531	0.006955	93737	Pard6g
ENSMUSG00000092232	3.194796	0.508851	11.99436	0.000534	0.006956	NA	Gm20521
ENSMUSG00000028957	1.313355	5.012476	11.99572	0.000533	0.006956	18628	Per3
ENSMUSG00000025790	-1.01004	3.872344	11.98568	0.000536	0.006965	108116	Slco3a1
ENSMUSG00000055022	-1.39238	3.063015	11.97417	0.000539	0.007	NA	Cntn1
ENSMUSG00000042066	-1.04123	2.757249	11.95882	0.000544	0.007051	68875	Tmcc2
ENSMUSG00000030806	-1.01105	2.838457	11.9331	0.000551	0.007133	56216	Stx1b
ENSMUSG00000053846	1.164456	4.09685	11.91153	0.000558	0.007193	16891	Lipg
ENSMUSG00000031075	-2.2514	1.696127	11.87354	0.000569	0.007302	101772	Ano1
ENSMUSG00000103622	1.07631	5.192959	11.85496	0.000575	0.007367	NA	RP23-298I7.2
ENSMUSG00000041046	1.485315	2.192854	11.84371	0.000579	0.007404	56089	Ramp3
ENSMUSG00000063011	-2.87447	2.163911	11.8281	0.000583	0.007442	56047	Msln
ENSMUSG00000070737	-1.12165	2.44547	11.75578	0.000607	0.0077	1E+08	Gm12942
ENSMUSG00000040987	-1.12548	3.181228	11.72201	0.000618	0.007802	243864	Mill2
ENSMUSG00000037936	-1.09474	3.238673	11.66946	0.000635	0.007976	20778	Scarb1
ENSMUSG00000044030	1.048908	2.336574	11.65278	0.000641	0.008035	272359	Irf2bp1
ENSMUSG00000030217	-1.82571	2.496581	11.61543	0.000654	0.008168	109978	Art4
ENSMUSG00000046879	1.027811	7.530219	11.58643	0.000664	0.008288	15944	Irgm1
ENSMUSG00000075408	-1.32086	3.743154	11.55989	0.000674	0.008372	NA	6030408B16Rik
ENSMUSG00000053199	-1.44617	6.152065	11.56091	0.000674	0.008372	244867	Arhgap20
ENSMUSG00000037921	1.075057	4.505639	11.56069	0.000674	0.008372	NA	Ddx60
ENSMUSG00000019966	-1.15575	6.107669	11.47893	0.000704	0.008682	17311	Kitl

ENSMUSG00000003849	-1.35638	2.053117	11.46855	0.000708	0.008716	18104	Nqo1
ENSMUSG000000053198	-1.61127	2.610988	11.45733	0.000712	0.008756	19153	Prx
ENSMUSG000000025630	-1.11126	5.212599	11.43107	0.000722	0.008826	15452	Hprt
ENSMUSG000000103525	-1.32764	2.611308	11.35875	0.000751	0.009102	NA	RP24-193D9.3
ENSMUSG000000019256	-1.29236	2.479145	11.32544	0.000765	0.009239	11622	Ahr
ENSMUSG000000087221	1.263787	1.701896	11.29176	0.000779	0.009379	NA	BC037032
ENSMUSG000000042249	-1.30998	2.682042	11.27417	0.000786	0.00944	320129	Adrbk2
ENSMUSG000000044468	-1.00231	3.779219	11.26678	0.000789	0.009458	74645	Fam46c
ENSMUSG000000071714	1.460533	2.724061	11.24061	0.0008	0.009574	12984	Csf2rb2
ENSMUSG000000037820	-1.16483	6.081009	11.20631	0.000815	0.009704	21817	Tgm2
ENSMUSG000000005220	-2.48326	2.407269	11.18149	0.000826	0.009805	53419	Corin
ENSMUSG000000066952	2.035919	1.189152	11.0781	0.000874	0.010285	231646	Myo1h
ENSMUSG000000054951	-1.32588	1.964095	11.04436	0.00089	0.010453	71583	9130008F23Rik
ENSMUSG000000056492	-1.81661	2.155038	11.01781	0.000902	0.010594	224792	Gpr116
ENSMUSG000000022485	-1.47495	2.054617	10.99704	0.000913	0.010692	15424	Hoxc5
ENSMUSG000000025656	-1.47046	2.280268	10.95866	0.000932	0.010841	236915	Arhgef9
ENSMUSG000000046794	-1.29968	1.907247	10.92945	0.000946	0.010992	244416	Ppp1r3b
ENSMUSG000000042254	1.003442	11.09029	10.91153	0.000956	0.011067	214425	Cilp
ENSMUSG000000044716	-1.43181	2.003193	10.90503	0.000959	0.011095	231134	Dok7
ENSMUSG000000021340	-1.0165	3.917369	10.88988	0.000967	0.011164	14756	Gpld1
ENSMUSG000000014813	-1.55188	3.179046	10.88081	0.000972	0.011208	20855	Stc1
ENSMUSG000000052512	-1.20455	1.892409	10.86588	0.00098	0.011266	NA	Nav2
ENSMUSG000000003644	-1.89635	1.463017	10.83731	0.000995	0.01136	20111	Rps6ka1
ENSMUSG000000015405	-2.52076	0.662247	10.81	0.00101	0.011481	NA	Ace2
ENSMUSG000000020123	1.757915	5.250813	10.7621	0.001036	0.011682	54140	Avpr1a
ENSMUSG000000026442	1.723679	2.286351	10.76224	0.001036	0.011682	269116	Nfasc
ENSMUSG000000031289	-1.57998	1.841311	10.74489	0.001046	0.011755	NA	Il13ra2
ENSMUSG000000026605	-1.08595	3.194909	10.72524	0.001057	0.011842	108000	Cenpf
ENSMUSG000000035890	1.13609	2.32289	10.66806	0.00109	0.01209	70294	Rnf126
ENSMUSG000000036596	1.11923	5.05472	10.65221	0.001099	0.012176	242939	Cpz
ENSMUSG000000025993	1.489173	5.796644	10.6281	0.001114	0.012279	53945	Slc40a1
ENSMUSG000000045287	-1.20624	3.506521	10.609	0.001125	0.012361	237847	Rtn4rl1
ENSMUSG000000050370	1.112988	3.629086	10.59349	0.001135	0.012419	12642	Ch25h
ENSMUSG000000020836	1.541229	3.372888	10.5803	0.001143	0.012485	216961	Coro6
ENSMUSG000000020173	-1.74537	1.989285	10.52307	0.001179	0.012784	12808	Cobl
ENSMUSG000000040929	-1.06403	2.20885	10.45144	0.001226	0.013115	19726	Rfx3
ENSMUSG000000055866	1.000583	5.177446	10.43303	0.001238	0.013207	18627	Per2
ENSMUSG000000052415	1.267666	3.186843	10.39204	0.001266	0.013395	99681	Tchh
ENSMUSG000000024610	5.470591	3.598569	10.30696	0.001325	0.013928	16149	Cd74
ENSMUSG000000028832	-1.10046	4.322592	10.2705	0.001352	0.014144	16765	Stmn1
ENSMUSG000000018822	-2.18227	4.450197	10.24762	0.001369	0.014296	54612	Sfrp5
ENSMUSG000000054150	-1.10114	2.321055	10.2412	0.001373	0.014333	212073	Syne3
ENSMUSG000000042258	1.417643	2.33544	10.16277	0.001433	0.014839	16392	Isl1
ENSMUSG000000057346	1.834597	1.624472	10.08214	0.001497	0.015296	NA	Apol9a
ENSMUSG000000042644	-1.17259	2.20423	10.06596	0.00151	0.015372	16440	Itpr3
ENSMUSG000000024647	1.396306	2.027452	10.02826	0.001542	0.01561	NA	Cbln2
ENSMUSG000000027985	-1.49746	1.561415	10.00748	0.001559	0.015734	16842	Lef1

ENSMUSG00000048834	-3.44943	1.20016	9.982898	0.00158	0.015919	211739	Vstm2a
ENSMUSG00000049044	-1.20684	1.777172	9.963589	0.001597	0.016059	56508	Rapgef4
ENSMUSG00000075593	-1.20789	2.872892	9.947322	0.001611	0.016175	330217	Gal3st4
ENSMUSG00000022040	-1.61718	2.133157	9.93048	0.001626	0.016296	13850	Ephx2
ENSMUSG00000059742	-2.55036	0.807532	9.882888	0.001668	0.016625	170738	Kcnh7
ENSMUSG00000038879	-1.05558	2.521711	9.878695	0.001672	0.016649	223473	Nipal2
ENSMUSG00000020089	1.048498	5.886844	9.872937	0.001677	0.016687	67895	Ppa1
ENSMUSG00000040811	-1.14635	2.850872	9.869826	0.00168	0.016691	72205	Eml2
ENSMUSG00000028524	-1.02014	3.508737	9.82079	0.001726	0.017025	73094	Sgip1
ENSMUSG00000103614	-1.03688	4.238381	9.776145	0.001768	0.017301	NA	RP24-541A5.3
ENSMUSG00000097974	-1.05392	2.667397	9.742279	0.001801	0.017442	NA	Gm10605
ENSMUSG00000040624	-1.02814	3.703972	9.72813	0.001815	0.017515	NA	Plekhg1
ENSMUSG00000038146	1.137523	2.895702	9.712216	0.00183	0.017638	18131	Notch3
ENSMUSG00000051022	-1.19937	2.826307	9.696096	0.001847	0.017725	NA	Hs3st1
ENSMUSG00000022577	1.223425	1.715243	9.676109	0.001867	0.017902	NA	Ly6h
ENSMUSG00000058831	-1.09138	2.405929	9.639435	0.001904	0.018146	12057	Opn1sw
ENSMUSG00000031216	-1.01009	3.351419	9.612591	0.001932	0.018369	236920	Stard8
ENSMUSG00000038831	-1.09298	2.422733	9.588844	0.001958	0.01852	241308	Ralgps1
ENSMUSG00000054162	-1.80284	1.589959	9.577545	0.00197	0.01859	NA	Spock3
ENSMUSG00000051166	-1.29521	2.344621	9.562604	0.001986	0.01868	319670	Eml5
ENSMUSG00000016356	-1.49669	2.238747	9.546647	0.002003	0.018728	73368	Col20a1
ENSMUSG00000002266	1.044421	4.938461	9.550637	0.001999	0.018728	22776	Zim1
ENSMUSG000000092657	-1.00688	2.779671	9.51536	0.002038	0.018922	NA	Gm25240
ENSMUSG00000021676	1.378814	2.332152	9.514871	0.002038	0.018922	544963	Iqgap2
ENSMUSG00000079225	4.912869	0.912604	9.51179	0.002042	0.018939	NA	Gm9531
ENSMUSG00000062515	-1.87781	3.49822	9.508348	0.002045	0.01896	11770	Fabp4
ENSMUSG00000051159	-1.21567	2.576187	9.480138	0.002077	0.019209	NA	Cited1
ENSMUSG00000085787	1.037088	3.00075	9.457352	0.002103	0.019404	NA	Gm13092
ENSMUSG00000017499	-1.37806	1.897923	9.444655	0.002118	0.019508	23834	Cdc6
ENSMUSG00000033952	-1.6264	2.263429	9.41834	0.002148	0.019725	12316	Aspm
ENSMUSG00000013483	1.129648	3.826587	9.371773	0.002204	0.020123	NA	Card14
ENSMUSG00000028845	-1.39213	1.518757	9.370832	0.002205	0.020123	24084	Tekt2
ENSMUSG00000097125	1.126756	2.662807	9.325386	0.00226	0.020534	NA	Gm26885
ENSMUSG00000040564	2.545376	1.146408	9.311948	0.002277	0.02067	NA	Apoc1
ENSMUSG00000036777	-1.09333	3.36332	9.301041	0.00229	0.020747	68743	Anln
ENSMUSG00000024014	1.291671	6.706221	9.272258	0.002327	0.020995	18712	Pim1
ENSMUSG00000088176	-1.18461	1.905816	9.223895	0.002389	0.021459	NA	Gm23094
ENSMUSG00000073421	5.151857	2.384156	9.203275	0.002416	0.021637	14961	H2-Ab1
ENSMUSG00000090698	-1.46811	1.401456	9.177733	0.00245	0.021859	381823	Apold1
ENSMUSG00000038530	1.131547	4.05062	9.165124	0.002467	0.021978	19736	Rgs4
ENSMUSG00000051375	-1.92664	0.889127	9.139721	0.002501	0.022235	75599	Pcdh1
ENSMUSG00000086350	-1.24831	1.504398	9.097827	0.002559	0.022611	NA	B230369F24Rik
ENSMUSG00000031803	1.758533	2.447964	9.075687	0.00259	0.022807	72297	B3gnt3
ENSMUSG00000073409	1.417502	1.589812	9.074241	0.002592	0.022808	15019	H2-Q6
ENSMUSG00000024109	-1.2183	1.94396	9.066516	0.002603	0.022871	18189	Nrxn1
ENSMUSG00000040675	1.078886	2.389352	9.004753	0.002693	0.023535	NA	Mthfd1l
ENSMUSG00000030849	-1.47732	2.423906	8.978226	0.002732	0.023844	14183	Fgfr2

ENSMUSG00000022235	-1.18025	1.883039	8.958127	0.002762	0.024038	69574	CmbI
ENSMUSG00000096929	-1.21612	2.064648	8.914875	0.002829	0.024407	NA	A330023F24Rik
ENSMUSG00000038828	1.129518	3.326552	8.886799	0.002872	0.024654	68796	Tmem214
ENSMUSG00000038064	-1.79509	2.318062	8.837478	0.002951	0.02513	75677	Cldn22
ENSMUSG00000039206	-1.60816	5.84933	8.832363	0.002959	0.025183	231871	DagIb
ENSMUSG00000027858	-1.16581	2.617405	8.803399	0.003007	0.025477	70747	Tspan2
ENSMUSG00000075224	-1.24819	3.191732	8.783687	0.003039	0.025699	241528	Lrrc55
ENSMUSG00000069378	-1.45017	1.342823	8.749901	0.003096	0.026069	225518	Prdm6
ENSMUSG00000027111	-1.19195	3.343596	8.746535	0.003102	0.026069	16403	Itga6
ENSMUSG00000020182	1.198247	2.117862	8.737909	0.003117	0.026148	NA	Ddc
ENSMUSG00000022025	-2.33212	2.709785	8.699942	0.003182	0.026624	16840	Lect1
ENSMUSG00000035783	1.411306	3.178171	8.698628	0.003184	0.026624	11475	Acta2
ENSMUSG00000078875	-1.00405	2.351361	8.672798	0.00323	0.026885	NA	Gm14419
ENSMUSG00000033268	-1.23499	3.577677	8.661806	0.003249	0.026977	99439	Duox1
ENSMUSG00000020911	-1.75489	2.381466	8.628794	0.003309	0.027312	16669	Krt19
ENSMUSG00000029648	-1.90132	2.113876	8.625568	0.003315	0.027312	14254	Flt1
ENSMUSG00000048696	1.116054	2.317941	8.617145	0.00333	0.02742	237400	Mex3d
ENSMUSG00000027544	-1.02546	3.05	8.589009	0.003382	0.027675	18019	Nfatc2
ENSMUSG00000079017	1.159907	4.597155	8.585817	0.003388	0.027704	76933	Ifi27I2a
ENSMUSG00000070867	-1.00601	2.517193	8.573556	0.003411	0.027834	666048	Trabd2b
ENSMUSG00000049538	-1.97019	1.313355	8.534749	0.003484	0.028318	271127	Adamts16
ENSMUSG00000023828	-1.76319	2.682893	8.503937	0.003544	0.028625	20519	Slc22a3
ENSMUSG00000029408	-1.12591	1.925355	8.484116	0.003583	0.028784	56325	Abcb9
ENSMUSG00000020641	2.064301	3.896245	8.475358	0.0036	0.028902	58185	Rsad2
ENSMUSG00000049422	1.243229	2.647646	8.436908	0.003677	0.029324	103172	Chchd10
ENSMUSG00000029386	-1.17164	4.317981	8.428455	0.003694	0.029401	NA	Tctn2
ENSMUSG00000042453	-2.12317	1.018969	8.426837	0.003697	0.029408	19699	Reln
ENSMUSG00000038642	5.238717	0.672124	8.421525	0.003708	0.029474	13040	Ctss
ENSMUSG00000037138	-1.03188	5.103027	8.347327	0.003863	0.030379	16764	Aff3
ENSMUSG00000029605	1.412385	2.6478	8.345015	0.003867	0.030397	23961	Oas1b
ENSMUSG00000092368	2.257136	1.83553	8.259879	0.004053	0.031439	NA	A930015D03Rik
ENSMUSG00000085558	-1.64348	1.126561	8.223754	0.004135	0.031909	NA	4930412C18Rik
ENSMUSG00000049307	1.137999	2.398778	8.166245	0.004268	0.032662	14345	Fut4
ENSMUSG00000071552	-1.2404	1.941722	8.16673	0.004267	0.032662	1E+08	Tigit
ENSMUSG00000015980	-1.03089	2.480203	8.129467	0.004355	0.033098	76612	Lrrc27
ENSMUSG00000085884	-1.54795	0.962107	8.106998	0.004409	0.033383	NA	Gm15342
ENSMUSG00000052825	1.267356	3.019683	8.078698	0.004479	0.03378	NA	Gm9892
ENSMUSG00000020839	-1.151	2.379491	8.052997	0.004543	0.034114	NA	Tmigd1
ENSMUSG00000044783	-1.09141	5.23651	7.947391	0.004816	0.035468	212427	Hjrp
ENSMUSG00000063767	-1.84565	1.176915	7.941987	0.00483	0.035553	381493	S100a7a
ENSMUSG00000041119	-1.1915	2.704089	7.931396	0.004858	0.035739	18585	Pde9a
ENSMUSG00000068452	-2.14763	0.627816	7.898077	0.004949	0.036262	214593	Duox2
ENSMUSG00000086765	1.966224	1.708643	7.839707	0.005111	0.037045	NA	Gm11827
ENSMUSG00000073940	7.349399	-0.3646	7.821662	0.005162	0.037308	15130	Hbb-bt
ENSMUSG00000085194	-2.64528	0.857146	7.807907	0.005202	0.0375	NA	Gm16012
ENSMUSG00000001656	1.144385	1.801654	7.806082	0.005207	0.0375	109663	Hoxc11
ENSMUSG00000036086	-1.46044	1.457743	7.797349	0.005232	0.037609	226409	Zranb3

ENSMUSG00000037580	1.10974	4.521467	7.782742	0.005275	0.037869	14528	Gch1
ENSMUSG000000102009	-1.49712	1.466786	7.775527	0.005296	0.037997	NA	4933400F21Rik
ENSMUSG000000063698	-1.03079	3.333706	7.765746	0.005325	0.038135	NA	Sfxn4
ENSMUSG000000032492	7.226574	-0.12586	7.762482	0.005334	0.038158	NA	Pth1r
ENSMUSG000000085678	-1.23818	1.8039	7.738668	0.005405	0.038457	NA	Gm16349
ENSMUSG000000046856	-1.07682	1.854942	7.738669	0.005405	0.038457	241070	Gpr1
ENSMUSG000000034853	-1.31838	1.755833	7.727955	0.005437	0.03864	329910	Acot11
ENSMUSG000000053749	1.045811	2.975703	7.725389	0.005445	0.038672	NA	Gm9920
ENSMUSG000000028427	-1.8106	1.007792	7.71853	0.005466	0.03875	11832	Aqp7
ENSMUSG000000047261	-1.1484	2.351273	7.706362	0.005503	0.038966	14432	Gap43
ENSMUSG000000044678	-1.11086	1.647686	7.686469	0.005564	0.039351	76486	Ly6k
ENSMUSG000000036594	3.827543	1.052138	7.623828	0.00576	0.040477	14960	H2-Aa
ENSMUSG000000017830	1.042947	3.276791	7.615007	0.005788	0.040628	80861	Dhx58
ENSMUSG000000022518	-1.31423	2.081815	7.606317	0.005816	0.040729	78809	4930562C15Rik
ENSMUSG000000026639	-1.05124	1.869671	7.569029	0.005938	0.041361	NA	Lamb3
ENSMUSG000000026311	-1.03056	4.240771	7.553333	0.00599	0.041578	65247	Asb1
ENSMUSG000000021356	-1.14176	2.432741	7.547505	0.006009	0.041654	16364	Irf4
ENSMUSG000000046709	-1.0448	1.77866	7.502075	0.006163	0.042555	26414	Mapk10
ENSMUSG000000040584	-1.6602	2.08903	7.466366	0.006286	0.043282	18671	Abcb1a
ENSMUSG000000027861	-1.17215	2.340347	7.466645	0.006285	0.043282	12373	Casq2
ENSMUSG000000070323	-1.02298	3.44851	7.409006	0.00649	0.0442	234911	Mmp27
ENSMUSG000000074971	1.061341	7.218329	7.371753	0.006626	0.044818	67606	Fibin
ENSMUSG000000086233	-1.00203	2.678386	7.367866	0.00664	0.044889	NA	Gm11816
ENSMUSG000000049164	-1.02202	2.29563	7.334229	0.006765	0.045454	72672	Zfp518a
ENSMUSG000000021319	-1.09516	8.660287	7.315068	0.006838	0.045812	20379	Sfrp4
ENSMUSG000000053368	-1.08261	2.568229	7.304135	0.00688	0.04604	140498	Rxfp2
ENSMUSG000000084817	-3.40801	0.937288	7.296843	0.006908	0.046202	NA	Gm5526
ENSMUSG000000020758	-1.37639	3.65301	7.273395	0.006998	0.046651	192897	Itgb4
ENSMUSG000000041378	-3.38657	0.33631	7.267154	0.007023	0.046736	12741	Cldn5
ENSMUSG000000034586	-1.28131	2.125153	7.26387	0.007036	0.046795	217310	Hid1
ENSMUSG000000099470	1.108403	1.765056	7.253996	0.007074	0.046914	NA	Gm29340
ENSMUSG000000093032	-1.47183	1.388078	7.244917	0.00711	0.047082	NA	Gm23631
ENSMUSG000000054418	-1.05922	1.74445	7.19585	0.007307	0.04812	NA	2900041M22Rik
ENSMUSG000000032092	-1.46734	2.859067	7.140193	0.007538	0.04931	14012	Mpzl2
ENSMUSG000000045569	2.666786	1.237222	7.132726	0.007569	0.049461	17200	Mc2r
ENSMUSG000000051000	-1.46306	1.877498	7.130187	0.00758	0.049484	NA	Fam160a1
ENSMUSG000000097474	1.865689	1.080646	7.105986	0.007683	0.049823	NA	Gm26584

Supplemental Table 3. Differentially expressed genes in FAPs at 6 months.

ID	logFC	logCPM	LR	PValue	FDR	Entrez	Gene
ENSMUSG00000000204	-7.41549	2.088123	23.53769	1.22E-06	0.000113	NA	Slfn4
ENSMUSG00000000253	2.729368	6.216021	12.74347	0.000357	0.009107	66355	Gmpr
ENSMUSG00000000275	1.261357	6.353375	58.08018	2.52E-14	2.11E-11	217069	Trim25
ENSMUSG00000000296	-1.78071	3.686696	18.94749	1.34E-05	0.000752	21987	Tpd52l1
ENSMUSG00000000305	-2.56767	2.300239	12.32096	0.000448	0.010853	12561	Cdh4
ENSMUSG00000000320	-2.32232	2.250774	16.74352	4.28E-05	0.001774	11684	Alox12
ENSMUSG00000000385	2.103775	0.710094	14.8784	0.000115	0.003847	50528	Tmprss2
ENSMUSG00000000416	-5.55148	1.882162	46.55759	8.90E-12	4.08E-09	NA	Cttnbp2
ENSMUSG00000000782	-2.05633	1.217213	19.96161	7.90E-06	0.000497	21414	Tcf7
ENSMUSG00000000805	-3.62142	5.212193	38.67294	5.01E-10	1.48E-07	12351	Car4
ENSMUSG00000000934	2.00492	2.797286	26.09705	3.25E-07	3.72E-05	72960	Top1mt
ENSMUSG00000000942	-4.50375	1.100467	9.481012	0.002076	0.032594	15401	Hoxa4
ENSMUSG00000001027	-2.91813	7.801357	18.57461	1.63E-05	0.000864	110880	Scn4a
ENSMUSG00000001029	-1.36782	4.662274	9.116386	0.002533	0.037466	15896	Icam2
ENSMUSG00000001300	-1.36428	5.19506	13.26104	0.000271	0.007342	13642	Efnb2
ENSMUSG00000001349	-2.52867	1.249562	10.77643	0.001028	0.019867	12797	Cnn1
ENSMUSG00000001436	1.017235	2.984502	11.71746	0.000619	0.013572	NA	Slc19a1
ENSMUSG00000001507	-1.99799	3.643208	16.46598	4.95E-05	0.00199	16400	Itga3
ENSMUSG00000001520	-1.05468	2.759815	9.212824	0.002403	0.036289	60345	Nrip2
ENSMUSG00000001741	-1.19339	3.192464	14.51981	0.000139	0.004404	16170	Il16
ENSMUSG00000001930	-1.82167	6.691438	16.3182	5.35E-05	0.002116	22371	Vwf
ENSMUSG00000001946	-1.13795	7.477308	10.1833	0.001417	0.025185	69524	Esam
ENSMUSG00000001983	-2.29128	4.255037	11.01397	0.000904	0.018065	70207	Taco1
ENSMUSG00000002249	1.047011	3.461503	14.75339	0.000123	0.003984	21678	Tead3
ENSMUSG00000002307	1.21958	5.142094	30.20646	3.88E-08	6.91E-06	NA	Daxx
ENSMUSG00000002458	1.016007	2.277115	10.98488	0.000919	0.01825	56470	Rgs19
ENSMUSG00000002489	-1.97426	2.227423	9.115578	0.002534	0.037466	21844	Tiam1
ENSMUSG00000002799	-2.64547	5.260426	36.8071	1.30E-09	3.57E-07	16450	Jag2
ENSMUSG00000002831	-2.99763	7.660619	17.34453	3.12E-05	0.001399	57435	Plin4
ENSMUSG00000002885	1.067944	6.221744	29.56393	5.41E-08	8.95E-06	26364	Cd97
ENSMUSG00000002944	-1.06149	9.032666	17.21634	3.34E-05	0.00147	NA	Cd36
ENSMUSG00000002980	-1.49181	6.894336	33.03703	9.04E-09	2.04E-06	57278	Bcam
ENSMUSG00000003411	-2.73187	1.265126	8.474654	0.003601	0.047918	69908	Rab3b
ENSMUSG00000003418	-5.64602	3.435088	92.7064	6.07E-22	1.44E-18	241230	St8sia6
ENSMUSG00000003617	-1.22133	6.678803	22.80894	1.79E-06	0.000151	12870	Cp
ENSMUSG00000003644	-1.49441	3.43819	14.75098	0.000123	0.003984	20111	Rps6ka1
ENSMUSG00000003849	-2.61198	4.507453	78.25043	9.08E-19	1.61E-15	18104	Nqo1
ENSMUSG00000003865	1.120125	8.095352	12.64663	0.000376	0.009506	14936	Gys1
ENSMUSG00000004085	1.005235	7.960508	24.73063	6.59E-07	6.67E-05	65964	Zak
ENSMUSG00000004473	1.571874	4.49273	15.29465	9.20E-05	0.003263	20256	Clec11a
ENSMUSG00000004698	4.758521	3.178294	13.07218	0.0003	0.007954	79221	Hdac9
ENSMUSG00000004791	-3.58312	4.693425	133.6486	6.52E-31	3.09E-27	18654	Pgf
ENSMUSG00000004951	-1.24459	8.643506	11.20044	0.000818	0.016858	15507	Hspb1
ENSMUSG00000004952	-1.57112	5.686622	33.33698	7.75E-09	1.83E-06	54153	Rasa4
ENSMUSG00000005124	2.49909	2.409682	18.73726	1.50E-05	0.000811	22402	Wisp1

ENSMUSG00000005220	-5.68832	0.990918	14.42265	0.000146	0.004575	53419	Corin
ENSMUSG00000005237	-1.91787	0.666893	8.736058	0.00312	0.043421	327954	Dnah2
ENSMUSG00000005373	-1.76102	5.670433	19.07102	1.26E-05	0.000719	58805	Mlxipl
ENSMUSG00000005483	-1.21487	7.691292	19.5361	9.87E-06	0.000595	81489	Dnajb1
ENSMUSG00000005718	-2.15262	1.872742	21.56919	3.41E-06	0.000256	83383	Tfap4
ENSMUSG00000006435	-1.42328	6.584061	15.40156	8.69E-05	0.003114	18011	Neurl1a
ENSMUSG00000006731	1.542785	2.521811	9.380927	0.002193	0.033899	14421	B4galnt1
ENSMUSG00000007097	-1.11423	10.12463	23.84365	1.04E-06	0.0001	98660	Atp1a2
ENSMUSG00000008999	-3.28704	3.548934	28.4158	9.79E-08	1.47E-05	12162	Bmp7
ENSMUSG00000009376	-1.81935	4.305022	15.76677	7.16E-05	0.002671	17295	Met
ENSMUSG00000009378	-2.14329	1.124001	11.31137	0.00077	0.016209	240638	Slc16a12
ENSMUSG00000009633	-1.36135	4.37286	15.85168	6.85E-05	0.002585	14373	G0s2
ENSMUSG00000009876	-2.21152	0.728105	10.16923	0.001428	0.025296	84682	Cox4i2
ENSMUSG00000011008	1.791069	4.637853	11.0236	0.0009	0.017997	68279	Mcoln2
ENSMUSG00000011267	-2.80859	2.096468	26.68987	2.39E-07	2.95E-05	63872	Zfp296
ENSMUSG00000011305	-4.57989	3.610996	9.623453	0.001921	0.030911	NA	Plin5
ENSMUSG00000012519	1.051317	2.922205	11.13745	0.000846	0.017197	74568	Mkl
ENSMUSG00000013033	1.301165	4.821359	10.94129	0.00094	0.018502	330814	Lphn1
ENSMUSG00000014039	1.48535	3.33666	18.15463	2.04E-05	0.001031	NA	Prdm15
ENSMUSG00000014498	1.183261	5.946165	11.00629	0.000908	0.018115	237615	Ankrd52
ENSMUSG00000014813	-1.14327	5.028609	11.68803	0.000629	0.013744	20855	Stc1
ENSMUSG00000015053	-1.2586	4.73164	8.959013	0.002761	0.03979	NA	Gata2
ENSMUSG00000015143	1.056338	4.443658	18.80183	1.45E-05	0.000793	109711	Actn1
ENSMUSG00000015222	-2.07009	2.549602	25.56965	4.27E-07	4.63E-05	17756	Map2
ENSMUSG00000015467	-1.82336	1.749455	11.22756	0.000806	0.016716	81701	Egfl8
ENSMUSG00000015647	-1.66602	5.410919	13.4109	0.00025	0.006923	16776	Lama5
ENSMUSG00000015843	-2.38904	4.585742	13.15818	0.000286	0.007625	20183	Rxrg
ENSMUSG00000015850	-1.11445	5.341904	10.63438	0.00111	0.021137	NA	Adamtsl4
ENSMUSG00000016349	4.254967	9.67588	10.68277	0.001081	0.020646	13628	Eef1a2
ENSMUSG00000016356	-1.28447	3.464857	11.64486	0.000644	0.013986	73368	Col20a1
ENSMUSG00000016386	-2.72204	2.802347	11.37949	0.000743	0.015695	NA	Mpped2
ENSMUSG00000016763	-3.00831	1.907138	26.10551	3.23E-07	3.72E-05	64706	Scube1
ENSMUSG00000016984	-1.94492	1.845218	14.98281	0.000108	0.00371	68145	Etaa1
ENSMUSG00000017057	1.014136	5.753324	11.81168	0.000589	0.013021	16164	Il13ra1
ENSMUSG00000017309	-1.55168	6.236882	16.0284	6.24E-05	0.002412	52685	Cd300lg
ENSMUSG00000017344	-1.2413	6.048651	8.58905	0.003382	0.045935	22370	Vtn
ENSMUSG00000017631	-1.02479	5.298505	20.55993	5.78E-06	0.00039	109934	Abr
ENSMUSG00000017756	-1.38012	4.930534	14.9543	0.00011	0.003743	20499	Slc12a7
ENSMUSG00000017929	1.583264	4.849676	26.53021	2.59E-07	3.10E-05	56336	B4galt5
ENSMUSG00000018411	-1.74687	5.416928	9.030335	0.002655	0.038699	17762	Mapt
ENSMUSG00000018566	-1.91027	7.999791	22.2874	2.35E-06	0.00019	20528	Slc2a4
ENSMUSG00000018800	-1.02264	5.26902	11.0275	0.000898	0.017984	217265	Abca5
ENSMUSG00000018830	-1.81802	5.654343	17.99485	2.22E-05	0.001094	17880	Myh11
ENSMUSG00000018920	1.548615	4.858385	28.23527	1.07E-07	1.59E-05	66102	Cxcl16
ENSMUSG00000019848	4.351893	5.506359	39.75452	2.88E-10	9.31E-08	78977	Popdc3
ENSMUSG00000019866	-1.32838	3.192925	9.163935	0.002468	0.036957	11630	Aim1
ENSMUSG00000019890	-1.71169	4.098149	8.812817	0.002991	0.042209	67405	Nts

ENSMUSG00000019960	1.825501	6.518664	48.7842	2.86E-12	1.45E-09	67603	Dusp6
ENSMUSG00000020123	1.939787	2.228332	10.93789	0.000942	0.01851	54140	Avpr1a
ENSMUSG00000020154	-1.36632	7.435402	8.780796	0.003044	0.04269	19263	Ptprb
ENSMUSG00000020173	1.39017	5.057386	15.16765	9.84E-05	0.003455	12808	Cobl
ENSMUSG00000020183	-1.29147	3.870306	13.27317	0.000269	0.007322	70574	Cpm
ENSMUSG00000020268	-1.64633	2.374498	12.64676	0.000376	0.009506	75530	Lym7
ENSMUSG00000020325	-1.37875	2.85182	16.8788	3.98E-05	0.001682	83554	Fstl3
ENSMUSG00000020413	-1.89234	3.193185	27.02806	2.01E-07	2.62E-05	15574	Hus1
ENSMUSG00000020473	1.333358	7.905684	23.91015	1.01E-06	9.77E-05	11568	Aebp1
ENSMUSG00000020607	-5.18189	0.775462	25.86627	3.66E-07	4.10E-05	105005	Fam84a
ENSMUSG00000020641	1.70082	5.863881	12.05619	0.000516	0.011978	58185	Rsad2
ENSMUSG00000020644	1.012547	6.567672	13.68657	0.000216	0.006169	15902	Id2
ENSMUSG00000020658	-1.49872	3.799559	14.26786	0.000159	0.004825	668212	Efr3b
ENSMUSG00000020709	-2.64546	1.485382	30.11775	4.07E-08	7.08E-06	216991	Adap2
ENSMUSG00000020717	-1.04339	8.196018	8.968083	0.002747	0.039674	18613	Pecam1
ENSMUSG00000020723	-2.53776	1.93548	8.972177	0.002741	0.039625	54377	Cacng4
ENSMUSG00000020834	1.255478	1.727426	8.519502	0.003514	0.047016	70451	Dhrs13
ENSMUSG00000020905	-4.8548	1.224211	28.52295	9.26E-08	1.40E-05	216835	Usp43
ENSMUSG00000020953	-2.79221	1.724295	15.92826	6.58E-05	0.002515	NA	Coch
ENSMUSG00000021061	-1.50118	7.803592	16.56784	4.69E-05	0.001919	20741	Sptb
ENSMUSG00000021070	-1.67978	1.447792	10.08091	0.001498	0.026144	12062	Bdkrb2
ENSMUSG00000021071	4.248237	-0.83539	9.002586	0.002696	0.03921	94090	Trim9
ENSMUSG00000021079	1.042687	3.713241	19.10181	1.24E-05	0.000717	NA	Timm9
ENSMUSG00000021108	-1.53864	5.77318	16.81051	4.13E-05	0.001728	18755	Prkch
ENSMUSG00000021130	-1.81018	3.681478	15.91269	6.63E-05	0.002523	108760	Galnt16
ENSMUSG00000021187	-1.46082	1.792558	10.1188	0.001468	0.025741	74413	Tc2n
ENSMUSG00000021200	-3.67675	7.702734	30.10925	4.08E-08	7.08E-06	65256	Asb2
ENSMUSG00000021219	-7.20288	0.117063	54.59771	1.48E-13	1.00E-10	50779	Rgs6
ENSMUSG00000021257	-1.1295	2.831599	9.648539	0.001895	0.03062	68737	Angel1
ENSMUSG00000021268	-1.63928	6.299689	36.63181	1.43E-09	3.83E-07	NA	Meg3
ENSMUSG00000021281	1.509918	7.754238	11.53034	0.000685	0.014623	21928	Tnfaip2
ENSMUSG00000021340	-1.41271	3.603524	19.18434	1.19E-05	0.000689	14756	Gpld1
ENSMUSG00000021416	-4.14675	-0.69723	9.23101	0.00238	0.036045	69123	Eci3
ENSMUSG00000021461	-1.26989	2.783145	19.4603	1.03E-05	0.000616	14088	Fancc
ENSMUSG00000021478	2.852141	-0.30556	8.774934	0.003054	0.042731	13488	Drd1a
ENSMUSG00000021662	-1.55011	3.872425	17.2865	3.21E-05	0.001429	110596	Arhgef28
ENSMUSG00000021678	2.887358	2.195631	26.66908	2.41E-07	2.96E-05	14063	F2rl1
ENSMUSG00000021702	1.607348	9.140153	27.15627	1.88E-07	2.49E-05	21828	Thbs4
ENSMUSG00000021750	-2.75834	3.591666	19.70644	9.03E-06	0.000554	NA	Fam107a
ENSMUSG00000021768	2.429531	5.86008	19.41875	1.05E-05	0.000625	27389	Dusp13
ENSMUSG00000021773	1.047284	2.215865	8.515844	0.003521	0.047066	69156	Comtd1
ENSMUSG00000021792	-2.55138	4.092843	29.87399	4.61E-08	7.90E-06	70564	Fam213a
ENSMUSG00000021822	1.101496	5.744847	10.63703	0.001108	0.021135	18792	Plau
ENSMUSG00000021974	-1.92536	2.651554	10.0352	0.001536	0.026569	14180	Fgf9
ENSMUSG00000022044	-1.69399	2.02271	8.774213	0.003055	0.042731	56471	Stmn4
ENSMUSG00000022179	-2.28528	1.548171	14.81851	0.000118	0.003919	74359	4931414P19Rik
ENSMUSG00000022206	-2.72471	3.839028	15.88219	6.74E-05	0.002557	18162	Npr3

ENSMUSG00000022246	1.055089	4.325121	21.9714	2.77E-06	0.000214	NA	Rai14
ENSMUSG00000022303	6.595311	0.82281	22.23656	2.41E-06	0.000193		75766 Dcstamp
ENSMUSG00000022394	-1.34955	3.154655	11.69625	0.000626	0.013705		214669 L3mbtl2
ENSMUSG00000022441	-3.59697	2.276575	18.61839	1.60E-05	0.000851		77627 Efcab6
ENSMUSG00000022449	-1.78043	2.979997	10.42278	0.001245	0.022934		223838 Adamts20
ENSMUSG00000022464	-9.91746	5.781114	142.6004	7.19E-33	5.11E-29		69354 Slc38a4
ENSMUSG00000022468	-1.31351	2.925946	14.14907	0.000169	0.005068		19011 Endou
ENSMUSG00000022469	-1.55037	5.351377	19.34031	1.09E-05	0.000646		223864 Rapgef3
ENSMUSG00000022512	-2.50222	2.904269	14.58354	0.000134	0.004286		12737 Cldn1
ENSMUSG00000022525	-2.83589	4.621461	9.442072	0.002121	0.033184		27281 Hrasls
ENSMUSG00000022579	-1.40484	6.851036	17.01326	3.71E-05	0.001581		68453 Gpihbp1
ENSMUSG00000022652	2.284317	0.14274	16.05753	6.14E-05	0.002382		17450 Morc1
ENSMUSG00000022661	-1.06823	6.536378	12.01071	0.000529	0.012172		17470 Cd200
ENSMUSG00000022696	-7.83874	0.752111	25.77871	3.83E-07	4.25E-05		320007 Sidt1
ENSMUSG00000022887	1.937834	2.170826	20.53124	5.87E-06	0.000392		17174 Masp1
ENSMUSG00000023045	-1.60588	0.909282	15.69603	7.44E-05	0.002748		223920 Soat2
ENSMUSG00000023064	-2.67939	3.461434	23.28815	1.39E-06	0.000124		20618 Sncg
ENSMUSG00000023232	2.837651	5.093715	17.72229	2.56E-05	0.001222	NA	Serinc2
ENSMUSG00000023267	-2.88648	0.735349	8.566451	0.003424	0.046322		14409 Gabrr2
ENSMUSG00000023336	-2.0129	4.984023	65.27295	6.52E-16	7.73E-13		67866 Wfdc1
ENSMUSG00000023341	1.742243	5.153778	19.08026	1.25E-05	0.000719		17858 Mx2
ENSMUSG00000023828	-6.45575	1.363785	18.98394	1.32E-05	0.000744		20519 Slc22a3
ENSMUSG00000023913	-1.9132	4.210271	21.20982	4.12E-06	0.0003		27226 Pla2g7
ENSMUSG00000023951	-1.0758	7.484446	12.30137	0.000453	0.010949		22339 Vegfa
ENSMUSG00000023959	-2.21294	7.38335	46.56489	8.86E-12	4.08E-09		224796 Clic5
ENSMUSG00000024056	-5.988	0.098443	19.40241	1.06E-05	0.000627		67052 Ndc80
ENSMUSG00000024112	-6.95986	1.286172	31.88761	1.63E-08	3.47E-06	NA	Cacna1h
ENSMUSG00000024173	6.626156	0.28369	9.953858	0.001605	0.027376	1.01E+08	Tpsab1
ENSMUSG00000024180	-2.8401	2.298463	15.73074	7.30E-05	0.002712		60455 Tmem8
ENSMUSG00000024395	-1.11599	6.030503	14.72109	0.000125	0.004029		225341 Lims2
ENSMUSG00000024593	-4.87058	2.274824	46.63166	8.57E-12	4.08E-09		70417 Megf10
ENSMUSG00000024598	-4.08231	0.904166	16.35154	5.26E-05	0.00209		14119 Fbn2
ENSMUSG00000024743	-2.06018	1.653589	8.696665	0.003188	0.044067		54525 Syt7
ENSMUSG00000024747	-3.30339	1.945668	11.0346	0.000894	0.017966		26358 Aldh1a7
ENSMUSG00000024776	1.076868	3.439974	18.74419	1.49E-05	0.000811	NA	Stambpl1
ENSMUSG00000024818	-1.3017	1.794735	9.347087	0.002233	0.034418	NA	Slc25a45
ENSMUSG00000024846	-2.44332	3.207971	25.12375	5.38E-07	5.63E-05		73720 Cst6
ENSMUSG00000024903	-5.63731	-0.10226	10.69466	0.001074	0.020544		100470 Lao1
ENSMUSG00000024907	-2.58531	3.494969	21.77003	3.07E-06	0.000234		14419 Gal
ENSMUSG00000025216	5.654206	5.305124	20.40956	6.25E-06	0.00041		16814 Lbx1
ENSMUSG00000025229	-4.79518	1.591387	13.17582	0.000284	0.007571		18742 Pitx3
ENSMUSG00000025375	-2.28067	3.236372	13.33697	0.00026	0.007173	NA	Aatk
ENSMUSG00000025420	-2.53381	0.346746	8.466687	0.003617	0.048084		71206 Katnal2
ENSMUSG00000025737	-1.08766	3.464033	13.50025	0.000239	0.006666		268933 Wdr24
ENSMUSG00000025746	1.088694	8.387751	9.725002	0.001818	0.029816		16193 Il6
ENSMUSG00000025776	2.171948	4.601939	23.33868	1.36E-06	0.000123		83691 Crispld1
ENSMUSG00000025888	1.764294	2.088682	11.62798	0.00065	0.014044		12362 Casp1

ENSMUSG00000026009	-4.60388	-0.12479	17.55526	2.79E-05	0.001293	54167	Icos
ENSMUSG00000026036	-1.0359	3.396836	22.01501	2.71E-06	0.000211	NA	Nif3l1
ENSMUSG00000026069	2.415882	2.174703	12.59694	0.000386	0.009727	17082	Il1rl1
ENSMUSG00000026100	3.924828	5.007036	19.2669	1.14E-05	0.000668	17700	Mstn
ENSMUSG00000026207	-1.63795	7.514197	14.77963	0.000121	0.003969	11790	Speg
ENSMUSG00000026208	-1.62105	10.97171	30.53197	3.28E-08	5.99E-06	13346	Des
ENSMUSG00000026235	1.222528	4.239619	10.84935	0.000988	0.019277	13838	Epha4
ENSMUSG00000026255	-1.92109	3.337222	14.50001	0.00014	0.00443	98363	Efhd1
ENSMUSG00000026407	3.12045	9.151281	8.408552	0.003735	0.049205	12292	Cacna1s
ENSMUSG00000026435	-1.77993	3.58035	18.58238	1.63E-05	0.000864	NA	Slc45a3
ENSMUSG00000026442	2.533684	1.736229	18.20073	1.99E-05	0.00101	269116	Nfasc
ENSMUSG00000026443	1.77208	3.228694	12.33627	0.000444	0.01082	16980	Lrn2
ENSMUSG00000026459	5.396257	4.598315	14.882	0.000114	0.003847	17928	Myog
ENSMUSG00000026475	-1.06108	5.840477	15.52423	8.15E-05	0.002956	19734	Rgs16
ENSMUSG00000026605	-2.34102	1.886687	22.35974	2.26E-06	0.000185	108000	Cenpf
ENSMUSG00000026610	-2.91054	4.542519	10.50373	0.001191	0.02218	NA	Esrrg
ENSMUSG00000026632	-1.27369	3.017171	21.79519	3.03E-06	0.000232	68972	Tatdn3
ENSMUSG00000026676	-1.48135	4.159784	10.69446	0.001075	0.020544	74186	Ccdc3
ENSMUSG00000026896	1.360202	4.447345	20.00605	7.72E-06	0.00049	71586	Ifih1
ENSMUSG00000026921	-1.32442	6.391912	14.96185	0.00011	0.003742	353156	Egfl7
ENSMUSG00000027071	-2.35496	4.287557	13.17513	0.000284	0.007571	228139	P2rx3
ENSMUSG00000027077	-2.25717	6.52953	15.07698	0.000103	0.003572	68678	Smtnl1
ENSMUSG00000027199	-1.9691	5.476916	25.17066	5.25E-07	5.57E-05	67092	Gatm
ENSMUSG00000027253	-1.34791	3.936549	13.7342	0.000211	0.006039	228357	Lrp4
ENSMUSG00000027324	1.781112	1.479859	12.21357	0.000474	0.011237	271842	Rpusd2
ENSMUSG00000027353	-2.39997	1.336402	12.05803	0.000516	0.011978	66634	Mcm8
ENSMUSG00000027358	-1.30886	5.73656	23.09745	1.54E-06	0.000133	12156	Bmp2
ENSMUSG00000027386	1.674438	7.270085	20.65324	5.50E-06	0.000375	70370	Fbln7
ENSMUSG00000027447	1.219472	9.906536	42.25872	8.00E-11	2.92E-08	13010	Cst3
ENSMUSG00000027474	-2.08202	4.625694	17.26807	3.25E-05	0.001438	228788	Ccm2l
ENSMUSG00000027500	-1.95449	4.181204	22.48604	2.12E-06	0.000174	20257	Stmn2
ENSMUSG00000027520	-3.59168	2.775189	27.42522	1.63E-07	2.21E-05	73884	Zdbf2
ENSMUSG00000027524	-2.84641	0.929345	9.758465	0.001785	0.029454	13616	Edn3
ENSMUSG00000027536	-2.25933	1.608651	10.98187	0.00092	0.01825	66371	Chmp4c
ENSMUSG00000027559	2.062932	10.42736	9.961272	0.001599	0.027331	12350	Car3
ENSMUSG00000027562	-2.11706	2.913491	12.50242	0.000406	0.010054	12349	Car2
ENSMUSG00000027611	-1.68643	7.250712	40.6753	1.80E-10	6.09E-08	19124	Procr
ENSMUSG00000027674	-6.24313	0.046572	19.21728	1.17E-05	0.00068	58869	Pex5l
ENSMUSG00000027737	-1.95828	2.72272	29.71038	5.02E-08	8.39E-06	26570	Slc7a11
ENSMUSG00000027776	-2.56847	1.188169	9.608841	0.001936	0.031088	16159	Il12a
ENSMUSG00000027784	-1.23685	6.61709	8.789027	0.00303	0.042552	242083	Ppm1l
ENSMUSG00000027792	-2.73351	3.699285	33.3108	7.85E-09	1.83E-06	12038	Bche
ENSMUSG00000027861	-1.7186	6.305223	12.47127	0.000413	0.010187	12373	Casq2
ENSMUSG00000027896	-2.05654	0.809751	15.50876	8.21E-05	0.002972	229699	Slc16a4
ENSMUSG00000027901	-6.56402	0.728131	22.18011	2.48E-06	0.000197	72121	Dennd2d
ENSMUSG00000027954	-1.32176	4.939207	23.45115	1.28E-06	0.000117	13636	Efna1
ENSMUSG00000027956	3.161636	1.190852	17.32615	3.15E-05	0.001404	70652	Tmem144

ENSMUSG00000027985	-4.79918	0.624345	45.37111	1.63E-11	6.82E-09	16842	Lef1
ENSMUSG00000028024	1.370548	5.083905	17.4131	3.01E-05	0.001362	13809	Enpep
ENSMUSG00000028033	-4.05173	4.022075	26.78894	2.27E-07	2.83E-05	226922	Kcnq5
ENSMUSG00000028066	1.261979	2.656407	14.50102	0.00014	0.00443	67037	Pmf1
ENSMUSG00000028085	-1.09389	4.073678	18.06847	2.13E-05	0.00106	229487	Gatb
ENSMUSG00000028289	-2.53216	1.867947	12.77769	0.000351	0.008974	13841	Epha7
ENSMUSG00000028318	1.309132	1.925331	9.280974	0.002315	0.035225	64424	Polr1e
ENSMUSG00000028364	1.933433	4.784047	20.88397	4.88E-06	0.000344	21923	Tnc
ENSMUSG00000028445	-1.16337	3.725004	13.01539	0.000309	0.008138	69638	Enho
ENSMUSG00000028573	-1.19585	2.660344	8.643985	0.003281	0.045053	75578	Fggy
ENSMUSG00000028626	-2.92155	2.511262	11.919	0.000556	0.012562	12840	Col9a2
ENSMUSG00000028755	-3.65539	0.750197	22.57939	2.02E-06	0.000167	72269	Cda
ENSMUSG00000028776	-1.55026	6.893514	21.6787	3.22E-06	0.000243	NA	Tinagl1
ENSMUSG00000028780	-1.38238	6.15188	17.86585	2.37E-05	0.001155	20348	Sema3c
ENSMUSG00000028793	1.122796	6.639908	39.10993	4.01E-10	1.27E-07	NA	Rnf19b
ENSMUSG00000028841	-1.97304	4.55576	11.22806	0.000806	0.016716	194231	Cnksr1
ENSMUSG00000028843	1.205096	5.982913	28.01147	1.21E-07	1.72E-05	73723	Sh3bgrl3
ENSMUSG00000028958	-1.31086	2.872587	22.74629	1.85E-06	0.000155	64295	Tmub1
ENSMUSG00000028978	-2.40978	6.266416	30.93647	2.67E-08	5.19E-06	18127	Nos3
ENSMUSG00000028989	-2.65037	6.386152	17.66483	2.63E-05	0.001253	654812	Angptl7
ENSMUSG00000028996	-1.93354	5.786619	12.26315	0.000462	0.011082	63954	Rbp7
ENSMUSG00000029047	-1.44189	2.61026	9.386639	0.002186	0.033867	668173	Pex10
ENSMUSG00000029093	-1.77963	3.884827	9.507909	0.002046	0.032191	81840	Sorcs2
ENSMUSG00000029095	-2.19346	5.271025	16.52949	4.79E-05	0.001941	231148	Ablim2
ENSMUSG00000029179	-1.35989	3.000579	9.044021	0.002636	0.038568	78796	Zcchc4
ENSMUSG00000029189	-3.24085	5.736358	12.1016	0.000504	0.011747	231238	Sel1l3
ENSMUSG00000029223	-2.28449	3.191306	28.11981	1.14E-07	1.66E-05	22223	Uchl1
ENSMUSG00000029228	-1.23143	4.773171	10.29438	0.001334	0.024302	16924	Lnx1
ENSMUSG00000029270	-1.53711	4.507363	30.73894	2.95E-08	5.60E-06	67266	Fam69a
ENSMUSG00000029334	-2.37261	1.146022	17.79951	2.45E-05	0.001183	19092	Prkg2
ENSMUSG00000029361	-3.30409	5.306894	12.8178	0.000343	0.008815	18125	Nos1
ENSMUSG00000029377	3.29224	1.627957	12.24261	0.000467	0.011167	13874	Ereg
ENSMUSG00000029417	3.155995	4.388472	72.04621	2.10E-17	3.32E-14	17329	Cxcl9
ENSMUSG00000029468	2.107091	2.629112	17.32675	3.15E-05	0.001404	18439	P2rx7
ENSMUSG00000029484	-1.1863	5.89941	10.61597	0.001121	0.021263	11745	Anxa3
ENSMUSG00000029499	-1.61796	3.713493	9.090861	0.002569	0.037751	19301	Pxmp2
ENSMUSG00000029521	-7.85028	1.108263	9.427075	0.002138	0.033351	50883	Chek2
ENSMUSG00000029552	-1.53622	4.280026	14.21011	0.000163	0.004955	21753	Tes
ENSMUSG00000029561	1.469274	5.08591	16.98632	3.77E-05	0.001599	NA	Oasl2
ENSMUSG00000029664	1.004197	5.56462	17.08663	3.57E-05	0.001535	21789	Tfpi2
ENSMUSG00000029683	3.676575	7.349695	13.69266	0.000215	0.006162	93677	Lmod2
ENSMUSG00000029828	-6.40933	0.710762	27.36332	1.69E-07	2.26E-05	70821	4921507P07Rik
ENSMUSG00000029832	2.635865	0.75468	11.13906	0.000845	0.017197	18025	Nfe2l3
ENSMUSG00000029999	-3.92176	2.149713	31.04484	2.52E-08	5.05E-06	21802	Tgfa
ENSMUSG00000030083	-1.36484	3.38521	11.8979	0.000562	0.012588	80283	Abtb1
ENSMUSG00000030107	2.521994	4.594442	30.84295	2.80E-08	5.38E-06	24110	Usp18
ENSMUSG00000030157	1.315606	4.33106	15.3423	8.97E-05	0.003197	93694	Clec2d

ENSMUSG00000030218	1.353096	8.942776	14.39894	0.000148	0.004593	17313	Mgp
ENSMUSG00000030231	-1.0885	3.028972	8.527825	0.003498	0.046919	109135	Plekha5
ENSMUSG00000030317	-1.68955	6.93341	11.50698	0.000693	0.014742	110595	Timp4
ENSMUSG00000030319	-1.33793	6.271701	18.22137	1.97E-05	0.001003	67088	Cand2
ENSMUSG00000030353	-3.82662	3.073535	23.22104	1.44E-06	0.000127	21679	Tead4
ENSMUSG00000030499	1.151507	4.866268	10.96286	0.00093	0.018318	NA	Kctd15
ENSMUSG00000030560	1.889096	5.510109	23.7622	1.09E-06	0.000103	13032	Ctsc
ENSMUSG00000030701	-3.03554	5.272102	150.6647	1.24E-34	1.76E-30	27276	Plekha5
ENSMUSG00000030732	-2.00832	2.625027	13.29943	0.000265	0.007248	69121	Chrdl2
ENSMUSG00000030739	-3.34552	4.982536	56.06173	7.02E-14	5.55E-11	71960	Myh14
ENSMUSG00000030838	5.357404	0.904424	12.54244	0.000398	0.009927	72088	Ush1c
ENSMUSG00000030849	-1.55887	1.281244	8.994891	0.002707	0.039224	14183	Fgfr2
ENSMUSG00000030873	-5.80751	0.133883	17.64085	2.67E-05	0.001264	20277	Scnn1b
ENSMUSG00000030889	-4.88831	2.09708	11.91954	0.000555	0.012562	233813	Vwa3a
ENSMUSG00000030905	-2.66054	2.029191	12.21736	0.000473	0.011237	12971	Crym
ENSMUSG00000030921	1.267978	4.896856	12.14661	0.000492	0.011574	20128	Trim30a
ENSMUSG00000030966	1.082686	3.457055	27.75566	1.38E-07	1.90E-05	NA	Trim21
ENSMUSG00000031004	2.828792	1.800729	8.79872	0.003014	0.042411	17345	Mki67
ENSMUSG00000031077	1.512373	2.300052	10.98424	0.000919	0.01825	14082	Fadd
ENSMUSG00000031274	-1.34707	4.692234	13.24962	0.000273	0.007373	NA	Col4a5
ENSMUSG00000031283	-1.74013	3.616771	19.03398	1.28E-05	0.000731	83453	Chrdl1
ENSMUSG00000031289	-3.87176	-0.49586	11.90671	0.000559	0.012562	NA	Il13ra2
ENSMUSG00000031298	-2.2388	1.521016	8.831677	0.00296	0.0419	237175	Gpr64
ENSMUSG00000031342	1.011241	6.507266	10.96237	0.00093	0.018318	14758	Gpm6b
ENSMUSG00000031375	1.042965	8.340472	10.51879	0.001182	0.022088	12111	Bgn
ENSMUSG00000031438	2.312333	4.895838	17.46679	2.92E-05	0.001346	66889	Rnf128
ENSMUSG00000031486	1.235903	4.300186	14.84977	0.000116	0.003887	78560	Gpr124
ENSMUSG00000031504	1.292283	5.549869	34.94762	3.39E-09	8.60E-07	19332	Rab20
ENSMUSG00000031543	2.274383	8.013304	10.50847	0.001188	0.022152	11733	Ank1
ENSMUSG00000031551	5.286517	0.986959	16.22134	5.64E-05	0.002202	15930	Ido1
ENSMUSG00000031616	1.25671	3.330901	9.47204	0.002086	0.032718	13617	Ednra
ENSMUSG00000031626	-1.80592	4.927197	9.734533	0.001808	0.029703	234214	Sorbs2
ENSMUSG00000031661	-1.81453	2.485575	16.71474	4.34E-05	0.001791	93960	Nkd1
ENSMUSG00000031750	1.155741	3.180037	12.26501	0.000462	0.011082	76527	Il34
ENSMUSG00000031778	2.087871	5.286896	20.79968	5.10E-06	0.000356	20312	Cx3cl1
ENSMUSG00000031779	7.057651	-0.16569	29.04061	7.09E-08	1.13E-05	20299	Ccl22
ENSMUSG00000031785	-1.24714	7.339575	9.012837	0.002681	0.039031	NA	Gpr56
ENSMUSG00000031790	1.463877	4.450508	10.49982	0.001194	0.022198	17388	Mmp15
ENSMUSG00000031805	1.019627	4.509367	8.705193	0.003173	0.043904	NA	Jak3
ENSMUSG00000031808	-1.07288	5.732478	18.8635	1.40E-05	0.000771	26457	Slc27a1
ENSMUSG00000031841	-1.80511	7.287212	55.95138	7.43E-14	5.56E-11	12554	Cdh13
ENSMUSG00000031842	-1.25275	3.168155	10.78937	0.001021	0.019837	110385	Pde4c
ENSMUSG00000031871	-1.52821	6.641665	11.57667	0.000668	0.01435	12562	Cdh5
ENSMUSG00000031883	-1.58591	2.783274	17.10176	3.54E-05	0.00153	NA	Car7
ENSMUSG00000031958	-3.14525	4.543508	20.89216	4.86E-06	0.000344	52815	Ldhd
ENSMUSG00000031972	1.457701	13.73823	13.7787	0.000206	0.005922	11459	Acta1
ENSMUSG00000031980	-2.34725	2.626967	19.25909	1.14E-05	0.000668	11606	Agt

ENSMUSG00000032033	7.706651	2.451045	49.55367	1.93E-12	1.02E-09	12023	Barx2
ENSMUSG00000032036	-3.14838	1.131714	17.2036	3.36E-05	0.00147	67703	Kirrel3
ENSMUSG00000032085	-1.11122	5.366516	9.058591	0.002615	0.038301	21345	Tagln
ENSMUSG00000032092	-3.48857	1.459465	13.94362	0.000188	0.005542	14012	Mpzl2
ENSMUSG00000032135	-1.42573	5.292581	15.00778	0.000107	0.00367	84004	Mcam
ENSMUSG00000032232	-1.46699	3.920525	11.13415	0.000848	0.017197	68178	Cgnl1
ENSMUSG00000032281	-3.4357	0.93394	24.86437	6.15E-07	6.34E-05	94180	Acsbg1
ENSMUSG00000032327	-2.34046	2.418572	9.527836	0.002024	0.031916	NA	Stra6
ENSMUSG00000032348	-2.12132	2.776478	23.17866	1.48E-06	0.000129	14860	Gsta4
ENSMUSG00000032355	-1.75205	5.95137	11.59287	0.000662	0.014273	69642	Mlip
ENSMUSG00000032369	1.025473	5.622279	24.40151	7.82E-07	7.83E-05	NA	Plscr1
ENSMUSG00000032372	2.408761	4.234042	38.69128	4.96E-10	1.48E-07	18828	Plscr2
ENSMUSG00000032380	-1.4872	4.021607	17.34492	3.12E-05	0.001399	13143	Dapk2
ENSMUSG00000032420	-2.20445	4.900293	24.31362	8.19E-07	8.14E-05	23959	Nt5e
ENSMUSG00000032446	-4.81341	1.509674	8.743489	0.003107	0.043286	13813	Eomes
ENSMUSG00000032452	-3.53785	1.123067	9.569999	0.001978	0.031574	64085	Clstn2
ENSMUSG00000032528	5.812572	0.550329	18.30491	1.88E-05	0.000972	22354	Vipr1
ENSMUSG00000032532	-4.81236	1.157021	9.866021	0.001684	0.028289	12424	Cck
ENSMUSG00000032537	-2.85179	2.572975	14.40685	0.000147	0.004593	270190	Ephb1
ENSMUSG00000032548	1.530691	5.107049	28.87065	7.74E-08	1.20E-05	24059	Slco2a1
ENSMUSG00000032690	1.822229	3.775756	12.91857	0.000325	0.008475	246728	Oas2
ENSMUSG00000032719	-2.95525	3.057205	30.55839	3.24E-08	5.98E-06	226866	Sbspon
ENSMUSG00000032735	-2.42321	6.328879	60.18871	8.62E-15	8.17E-12	NA	Ablim3
ENSMUSG00000032878	-1.67769	4.904307	9.115071	0.002535	0.037466	216613	Ccdc85a
ENSMUSG00000032942	4.730863	5.580803	12.81896	0.000343	0.008815	22229	Ucp3
ENSMUSG00000032946	-1.88466	4.104576	23.66384	1.15E-06	0.000108	NA	Rasgrp2
ENSMUSG00000033060	-2.3024	6.364363	23.26469	1.41E-06	0.000125	380928	Lmo7
ENSMUSG00000033174	-1.30922	6.95713	18.30907	1.88E-05	0.000972	23945	Mgll
ENSMUSG00000033191	-1.28999	7.483498	8.790377	0.003028	0.042552	21846	Tie1
ENSMUSG00000033207	1.155589	3.829833	10.57406	0.001147	0.021635	71738	Mamdc2
ENSMUSG00000033216	-1.36063	1.766747	9.1396	0.002501	0.037256	65967	Eefsec
ENSMUSG00000033355	2.029889	5.728575	30.59484	3.18E-08	5.95E-06	67775	Rtp4
ENSMUSG00000033377	-2.35692	6.008148	62.93224	2.14E-15	2.34E-12	114301	Palmd
ENSMUSG00000033389	1.152101	3.358369	14.57085	0.000135	0.004295	216831	Arhgap44
ENSMUSG00000033542	2.401879	3.394409	18.63271	1.58E-05	0.000847	54324	Arhgef5
ENSMUSG00000033579	-5.30697	1.245337	15.56161	7.99E-05	0.002905	338521	Fa2h
ENSMUSG00000033715	1.328428	3.282908	8.588274	0.003383	0.045935	105387	Akr1c14
ENSMUSG00000033720	-1.82968	2.038179	12.41285	0.000426	0.010439	94282	Sfxn5
ENSMUSG00000033763	1.336349	6.739492	16.24596	5.56E-05	0.00218	244654	Mtss1l
ENSMUSG00000033826	5.099761	2.73907	10.49305	0.001198	0.02225	13417	Dnah8
ENSMUSG00000033857	-1.35532	2.712773	16.27017	5.49E-05	0.002158	217364	Engase
ENSMUSG00000033880	1.108771	5.979052	10.08351	0.001496	0.026142	19039	Lgals3bp
ENSMUSG00000034006	1.179212	6.628161	22.96834	1.65E-06	0.00014	66943	Pqlc1
ENSMUSG00000034164	-1.79028	2.687195	9.627772	0.001917	0.030873	NA	Emid1
ENSMUSG00000034248	1.083694	4.70458	38.78862	4.72E-10	1.46E-07	67712	Slc25a37
ENSMUSG00000034258	-1.79466	1.69174	20.3298	6.52E-06	0.000423	217721	Mfsd7c
ENSMUSG00000034266	1.461792	1.314341	9.777475	0.001767	0.029287	53314	Batf

ENSMUSG00000034285	-1.33348	1.33384	9.632675	0.001911	0.030826	18082	Nipsnap1
ENSMUSG00000034295	-2.76547	4.946609	9.710818	0.001832	0.02995	225288	Fhod3
ENSMUSG00000034422	1.291203	5.425491	25.38656	4.69E-07	5.06E-05	547253	Parp14
ENSMUSG00000034459	2.817117	7.488105	32.48762	1.20E-08	2.67E-06	15957	Ifit1
ENSMUSG00000034488	2.916536	2.959148	16.61195	4.59E-05	0.00188	13612	Edil3
ENSMUSG00000034586	-1.20525	3.392381	22.08388	2.61E-06	0.000206	217310	Hid1
ENSMUSG00000034648	-8.38279	4.405881	53.69755	2.34E-13	1.45E-10	16979	Lrrn1
ENSMUSG00000034684	-1.58526	5.196976	16.01933	6.27E-05	0.002417	20350	Sema3f
ENSMUSG00000034685	1.500384	2.396383	18.07077	2.13E-05	0.00106	217219	Fam171a2
ENSMUSG00000034714	1.560939	4.119847	28.03023	1.19E-07	1.72E-05	117160	Ttyh2
ENSMUSG00000034768	-4.37931	5.672183	10.84744	0.000989	0.019277	217217	Asb16
ENSMUSG00000034911	-1.78006	5.71349	14.20728	0.000164	0.004955	234395	Ushbp1
ENSMUSG00000034936	-2.11903	5.033201	51.04477	9.03E-13	5.35E-10	80981	Arl4d
ENSMUSG00000034981	-1.33198	5.479336	12.76515	0.000353	0.009018	231440	Parm1
ENSMUSG00000035095	-2.33121	0.245916	8.397466	0.003757	0.04935	219148	Fam167a
ENSMUSG00000035105	-2.93627	5.946055	24.22066	8.59E-07	8.49E-05	112407	Egln3
ENSMUSG00000035274	1.622616	5.137338	45.53946	1.50E-11	6.65E-09	NA	Tpbg
ENSMUSG00000035314	-1.10387	2.929656	8.90141	0.00285	0.040572	233552	Gdpd5
ENSMUSG00000035441	1.4043	4.590965	17.45397	2.94E-05	0.001346	338367	Myo1d
ENSMUSG00000035566	-1.4849	4.433614	8.986088	0.00272	0.039365	219228	Pcdh17
ENSMUSG00000035686	-3.30435	5.520806	9.739671	0.001803	0.029654	21835	Thrsp
ENSMUSG00000035692	1.700819	5.876545	16.51103	4.84E-05	0.001955	1E+08	Isg15
ENSMUSG00000035778	-1.9217	4.97736	18.94682	1.34E-05	0.000752	14594	Ggta1
ENSMUSG00000035783	-1.19735	6.318643	14.75579	0.000122	0.003984	11475	Acta2
ENSMUSG00000036006	-3.11324	2.564903	25.97855	3.45E-07	3.93E-05	193385	Fam65b
ENSMUSG00000036040	-1.56498	4.226385	11.90558	0.00056	0.012562	77794	Adamtsl2
ENSMUSG00000036225	1.679426	1.22418	13.60691	0.000225	0.006398	106931	Kctd1
ENSMUSG00000036395	-4.06138	1.765547	9.976374	0.001586	0.027239	244757	Glb1l2
ENSMUSG00000036411	-1.97897	0.500682	9.257633	0.002345	0.035638	68283	9530077C05Rik
ENSMUSG00000036437	-2.70485	2.702999	23.92194	1.00E-06	9.77E-05	18166	Npy1r
ENSMUSG00000036469	-4.28548	0.193273	12.24655	0.000466	0.011162	72925	1-Mar
ENSMUSG00000036523	-3.11136	0.993684	14.43111	0.000145	0.004565	268527	Greb1
ENSMUSG00000036858	-1.42041	0.711636	10.4471	0.001228	0.022692	19208	Ptcra
ENSMUSG00000036931	-1.48807	3.279066	12.81815	0.000343	0.008815	NA	Nfkbid
ENSMUSG00000036986	1.014021	4.892272	43.5961	4.04E-11	1.59E-08	18854	Pml
ENSMUSG00000037007	-1.53568	2.731488	19.65399	9.28E-06	0.000567	56314	Zfp113
ENSMUSG00000037016	-4.65705	1.925568	17.83867	2.40E-05	0.001167	242022	Frem2
ENSMUSG00000037029	1.696008	3.630429	42.41022	7.40E-11	2.77E-08	26465	Zfp146
ENSMUSG00000037104	1.154431	5.45369	40.75009	1.73E-10	6.00E-08	56468	Socs5
ENSMUSG00000037161	-2.49497	-0.19633	10.72213	0.001059	0.020348	67749	Mgarp
ENSMUSG00000037254	1.673273	3.142532	15.30526	9.15E-05	0.003252	16425	Itih2
ENSMUSG00000037318	-1.69322	1.014857	9.758915	0.001785	0.029454	215243	Traf3ip3
ENSMUSG00000037341	-2.1711	1.229875	10.22472	0.001386	0.024861	236727	Slc9a7
ENSMUSG00000037363	-1.08922	2.736793	9.964333	0.001596	0.027319	270035	Letm2
ENSMUSG00000037580	1.327653	6.027299	27.0094	2.02E-07	2.62E-05	14528	Gch1
ENSMUSG00000037736	-1.24643	6.628621	17.18879	3.38E-05	0.001473	77569	Limch1
ENSMUSG00000037754	-1.42921	4.615051	13.94984	0.000188	0.005542	NA	Ppp1r16b

ENSMUSG00000037849	9.542419	0.032534	28.98017	7.31E-08	1.16E-05	NA	Gm4955
ENSMUSG00000037852	-2.81468	8.042101	102.1098	5.25E-24	1.49E-20		12876 Cpe
ENSMUSG00000037905	1.083269	2.699316	18.29403	1.89E-05	0.000972		76809 Bri3bp
ENSMUSG00000037942	-4.00942	-0.13699	9.549459	0.002	0.031894		12944 Crp
ENSMUSG00000037989	-2.85279	5.970024	16.35272	5.26E-05	0.00209		75607 Wnk2
ENSMUSG00000038007	-2.09669	4.917076	19.99012	7.78E-06	0.000492		230379 Acer2
ENSMUSG00000038047	-1.69227	3.085286	20.01688	7.68E-06	0.00049		230376 Haus6
ENSMUSG00000038077	-5.96361	0.370788	17.61783	2.70E-05	0.001268		16494 Kcna6
ENSMUSG00000038145	-1.07017	7.050981	15.98542	6.38E-05	0.002447	NA	Snrk
ENSMUSG00000038151	-2.50355	2.417349	13.17672	0.000283	0.007571		12142 Prdm1
ENSMUSG00000038156	-1.09	5.599225	17.18803	3.39E-05	0.001473		233744 Spon1
ENSMUSG00000038168	1.223713	3.480859	10.07883	0.0015	0.026144		210530 Leprel1
ENSMUSG00000038188	-2.01975	3.981031	28.74573	8.25E-08	1.26E-05		380713 Scarf1
ENSMUSG00000038235	-1.56488	6.278571	20.35905	6.42E-06	0.000419		16456 F11r
ENSMUSG00000038267	-4.16874	4.485644	23.32268	1.37E-06	0.000123	NA	Slc22a23
ENSMUSG00000038319	-6.83053	1.374759	28.17117	1.11E-07	1.63E-05		16511 Kcnh2
ENSMUSG00000038370	-2.54009	5.327279	31.39736	2.10E-08	4.40E-06		66425 Pcp4l1
ENSMUSG00000038415	-6.48577	-0.5189	20.82014	5.04E-06	0.000353		15220 Foxq1
ENSMUSG00000038522	-5.11919	1.553269	14.8683	0.000115	0.003858		215929 Al317395
ENSMUSG00000038569	-1.62208	1.356173	9.533624	0.002017	0.031916		231724 Rad9b
ENSMUSG00000038602	-2.48417	1.311773	9.914601	0.00164	0.027799		215085 Slc35f1
ENSMUSG00000038624	-5.81797	1.936228	21.38401	3.76E-06	0.000277		66650 Nepn
ENSMUSG00000038718	1.102808	2.940432	9.846178	0.001702	0.028546		18516 Pbx3
ENSMUSG00000038775	-1.61116	1.30622	8.537473	0.003479	0.046774		22351 Vill
ENSMUSG00000038781	-1.93608	3.554448	12.00508	0.000531	0.012172		106766 Stap2
ENSMUSG00000038807	-1.54783	5.081819	10.96589	0.000928	0.018318		380711 Rap1gap2
ENSMUSG00000038816	-1.46072	4.392327	26.25511	2.99E-07	3.52E-05		54366 Ctnnal1
ENSMUSG00000038827	1.017425	2.669846	10.51867	0.001182	0.022088		230234 Fam206a
ENSMUSG00000038963	-5.68017	0.676438	13.79567	0.000204	0.00588	NA	Slco4a1
ENSMUSG00000039063	-1.6457	2.140768	19.76455	8.76E-06	0.000542		67856 Echdc3
ENSMUSG00000039087	-1.01633	4.878061	14.57549	0.000135	0.004294	NA	Rreb1
ENSMUSG00000039116	-3.57627	1.901966	37.61738	8.61E-10	2.40E-07		215798 Gpr126
ENSMUSG00000039347	-1.69059	4.644039	16.54559	4.75E-05	0.00193		76252 Atp6v0e2
ENSMUSG00000039470	-2.50898	2.988041	19.90255	8.15E-06	0.000506		70546 Zdhhc2
ENSMUSG00000039476	1.392556	3.96632	25.68281	4.02E-07	4.40E-05		20204 Prrx2
ENSMUSG00000039496	-2.28474	4.760798	27.02771	2.01E-07	2.62E-05		227526 Cdnf
ENSMUSG00000039542	-1.19473	4.415082	11.29827	0.000776	0.016276		17967 Ncam1
ENSMUSG00000039601	-1.40833	5.78419	23.55271	1.22E-06	0.000113		53901 Rcan2
ENSMUSG00000039670	-4.77457	2.304174	13.95295	0.000187	0.005542		66431 Oxld1
ENSMUSG00000039699	3.816825	1.036025	59.32991	1.33E-14	1.19E-11		74481 Batf2
ENSMUSG00000039936	-1.4138	3.020873	13.18256	0.000283	0.007571		18707 Pik3cd
ENSMUSG00000039942	1.107353	5.396071	14.83333	0.000117	0.003906		19219 Ptger4
ENSMUSG00000039997	1.261913	6.929187	9.822813	0.001724	0.028809		15950 Ifi203
ENSMUSG00000040028	1.008481	3.608791	9.758644	0.001785	0.029454		15568 Elavl1
ENSMUSG00000040111	-2.41292	4.027028	26.55205	2.57E-07	3.09E-05		235283 Gramd1b
ENSMUSG00000040133	2.890673	0.855745	9.407956	0.00216	0.033622		381413 Gpr176
ENSMUSG00000040152	1.258744	10.15568	12.34528	0.000442	0.010786		21825 Thbs1

ENSMUSG00000040253	1.09944	5.544841	9.808916	0.001737	0.028962	NA	Gbp7
ENSMUSG00000040274	-1.44419	2.911429	9.704186	0.001838	0.030024	NA	Cdk6
ENSMUSG00000040424	-1.59639	1.649231	11.64381	0.000644	0.013986	233020	Hipk4
ENSMUSG00000040447	-1.32004	5.685845	13.1939	0.000281	0.007552	216892	Spns2
ENSMUSG00000040613	1.396385	2.680854	13.93758	0.000189	0.005542	NA	Apobec1
ENSMUSG00000040723	-1.17941	6.352364	11.25451	0.000794	0.016566	226594	Rcsd1
ENSMUSG00000040724	-2.32157	2.299764	16.83284	4.08E-05	0.001717	16490	Kcna2
ENSMUSG00000040829	1.832147	1.58708	14.26528	0.000159	0.004825	574428	Zmynd15
ENSMUSG00000040856	-3.73655	3.085758	31.97737	1.56E-08	3.36E-06	13386	Dlk1
ENSMUSG00000040998	-2.2377	3.434986	17.71912	2.56E-05	0.001222	114249	Npnt
ENSMUSG00000041012	-2.06365	2.813028	14.90877	0.000113	0.003803	70031	Cmtm8
ENSMUSG00000041037	1.521461	4.443435	36.3751	1.63E-09	4.29E-07	210146	Irgq
ENSMUSG00000041119	-2.30651	2.536192	29.78151	4.84E-08	8.19E-06	18585	Pde9a
ENSMUSG00000041235	-1.57236	5.521958	24.86765	6.14E-07	6.34E-05	320790	Chd7
ENSMUSG00000041423	-2.55403	0.868754	15.14398	9.96E-05	0.00349	68957	Paqr6
ENSMUSG00000041608	5.312083	3.9228	13.84774	0.000198	0.005743	215446	Entpd3
ENSMUSG00000041649	-3.31467	0.490198	13.88664	0.000194	0.00566	NA	Klf8
ENSMUSG00000041688	1.109909	6.990222	11.83377	0.000582	0.012959	27494	Amot
ENSMUSG00000041700	4.635654	2.64497	9.14366	0.002496	0.037218	237091	Lhfpl1
ENSMUSG00000041794	-2.03067	2.682413	8.729426	0.003131	0.043536	245049	Myrip
ENSMUSG00000041827	1.383587	4.642	8.388167	0.003777	0.049556	NA	Oasl1
ENSMUSG00000041912	-2.62689	1.704789	9.531861	0.002019	0.031916	NA	Tdrkh
ENSMUSG00000041920	-1.41734	3.14358	8.410247	0.003731	0.049205	104681	Slc16a6
ENSMUSG00000042045	4.53887	7.399247	18.65432	1.57E-05	0.000841	66402	Slc
ENSMUSG00000042050	-1.03158	3.97843	9.151135	0.002486	0.037138	217935	Wdr60
ENSMUSG00000042109	-1.29763	3.052718	12.86971	0.000334	0.008652	105859	Csdc2
ENSMUSG00000042246	1.62958	3.541344	23.32372	1.37E-06	0.000123	209760	Tmc7
ENSMUSG00000042379	-2.63137	1.020762	11.31741	0.000768	0.01618	71690	Esm1
ENSMUSG00000042429	-5.74627	2.682432	13.39581	0.000252	0.006965	11539	Adora1
ENSMUSG00000042453	-1.94563	4.935996	21.70807	3.17E-06	0.00024	19699	Reln
ENSMUSG00000042476	-2.65533	6.372192	13.31189	0.000264	0.007214	18670	Abcb4
ENSMUSG00000042485	-1.27744	7.249198	8.457173	0.003636	0.048246	66175	Mustn1
ENSMUSG00000042505	1.307487	3.100465	16.54871	4.74E-05	0.00193	71238	Acn9
ENSMUSG00000042515	-1.04755	3.767662	14.26879	0.000158	0.004825	NA	Mum1l1
ENSMUSG00000042606	-1.02831	2.904956	11.33723	0.00076	0.016032	233876	Hirip3
ENSMUSG00000042644	-1.48756	3.335258	10.25053	0.001366	0.024666	16440	Itpr3
ENSMUSG00000042734	2.806796	4.793372	27.93383	1.26E-07	1.75E-05	69480	Ttc9
ENSMUSG00000042784	2.163775	0.698378	10.31791	0.001317	0.024087	17829	Muc1
ENSMUSG00000042793	-4.74183	0.683621	9.933081	0.001623	0.02762	329252	Lgr6
ENSMUSG00000042812	1.164477	2.304529	9.647075	0.001897	0.03062	15227	Foxf1
ENSMUSG00000042895	2.720987	7.021861	10.51496	0.001184	0.022104	223513	Abra
ENSMUSG00000042903	-1.64791	6.322645	9.976704	0.001585	0.027239	54601	Foxo4
ENSMUSG00000043456	-6.40426	1.436961	25.12165	5.38E-07	5.63E-05	NA	Zfp536
ENSMUSG00000043613	2.825495	7.044292	20.99917	4.59E-06	0.00033	17392	Mmp3
ENSMUSG00000043924	-2.18099	2.673255	24.04765	9.40E-07	9.22E-05	NA	Ncmap
ENSMUSG00000044033	-1.53848	3.410203	12.99273	0.000313	0.008206	545428	Ccdc141
ENSMUSG00000044042	2.332988	0.552374	10.14142	0.00145	0.02552	14260	Fmn1

ENSMUSG00000044060	-1.0848	4.460736	13.94145	0.000189	0.005542	231570	A830010M20Rik
ENSMUSG00000044317	-2.15076	4.584581	31.01901	2.56E-08	5.05E-06	319197	Gpr4
ENSMUSG00000044338	-2.24039	4.592058	10.35506	0.001291	0.023698	23796	Aplnr
ENSMUSG00000044367	-1.53421	2.456888	9.620831	0.001924	0.03092	69309	Slc16a13
ENSMUSG00000044390	-2.25961	0.654901	14.76619	0.000122	0.003979	332359	Tigd3
ENSMUSG00000044461	-3.05711	5.699085	43.2559	4.80E-11	1.85E-08	219134	Shisa2
ENSMUSG00000044647	-5.60711	0.543357	13.43917	0.000246	0.006833	77771	Csrnp3
ENSMUSG00000044716	-1.67941	3.464565	14.69255	0.000127	0.004078	231134	Dok7
ENSMUSG00000045092	-1.90909	7.096356	22.25955	2.38E-06	0.000191	13609	S1pr1
ENSMUSG00000045201	-3.73804	2.304688	11.28202	0.000783	0.016395	NA	Lrrc3b
ENSMUSG00000045268	1.717084	3.119862	23.1318	1.51E-06	0.000131	NA	Zfp691
ENSMUSG00000045312	1.51979	4.702125	17.20538	3.35E-05	0.00147	218454	Lhfpl2
ENSMUSG00000045319	-1.92367	0.820791	10.22926	0.001382	0.024857	NA	Proser2
ENSMUSG00000045374	1.048956	3.545921	10.11042	0.001474	0.025826	192652	Wdr81
ENSMUSG00000045394	-7.50127	0.485247	12.13145	0.000496	0.011618	17075	Epcam
ENSMUSG00000045629	-5.66389	2.463407	20.01201	7.70E-06	0.00049	225608	Sh3tc2
ENSMUSG00000045667	-1.47793	7.225806	26.15827	3.15E-07	3.67E-05	276829	Smtnl2
ENSMUSG00000045875	-3.56578	1.689203	26.37904	2.81E-07	3.33E-05	11549	Adra1a
ENSMUSG00000046352	-7.48342	0.222649	26.86262	2.18E-07	2.75E-05	14619	Gjb2
ENSMUSG00000046404	-1.08431	4.007756	20.65459	5.50E-06	0.000375	226418	Yod1
ENSMUSG00000046480	-3.253	7.970515	34.19866	4.98E-09	1.20E-06	399548	Scn4b
ENSMUSG00000046603	1.203759	5.037017	12.23516	0.000469	0.011192	NA	Tcaim
ENSMUSG00000046694	-1.89613	1.748406	11.82806	0.000583	0.012959	100342	Fam46b
ENSMUSG00000046714	-1.92831	1.265111	10.18194	0.001418	0.025185	14234	Foxc2
ENSMUSG00000046731	1.498	4.410319	34.28783	4.75E-09	1.19E-06	216858	Kctd11
ENSMUSG00000046798	1.045035	4.538484	22.06271	2.64E-06	0.000207	NA	Cldn12
ENSMUSG00000046844	5.258604	0.475812	9.33609	0.002247	0.034537	270097	Vat1l
ENSMUSG00000046879	1.134248	7.627946	40.1297	2.38E-10	7.86E-08	15944	Irgm1
ENSMUSG00000047227	-1.10312	1.278914	12.33186	0.000445	0.010827	217648	Gm527
ENSMUSG00000047361	-5.82372	0.751959	17.59746	2.73E-05	0.001277	381260	Gm973
ENSMUSG00000047414	1.335662	5.352983	13.31866	0.000263	0.007208	399558	Flrt2
ENSMUSG00000047415	4.298806	0.197609	15.02539	0.000106	0.003653	NA	Gpr68
ENSMUSG00000047496	-3.61392	1.577741	15.19679	9.69E-05	0.003411	NA	Rnf152
ENSMUSG00000047797	-2.76263	0.737478	12.14264	0.000493	0.011574	14618	Gjb1
ENSMUSG00000048078	2.713036	2.46301	14.3632	0.000151	0.00467	NA	Tenm4
ENSMUSG00000048096	-2.49143	3.684412	9.801634	0.001744	0.02904	93689	Lmod1
ENSMUSG00000048138	-1.37406	2.813008	18.53302	1.67E-05	0.00088	226049	Dmrt2
ENSMUSG00000048218	-1.36079	4.155041	24.84341	6.22E-07	6.36E-05	105827	Amigo2
ENSMUSG00000048368	-1.31461	2.467027	8.591076	0.003378	0.045935	27047	Omd
ENSMUSG00000048376	1.60139	6.508737	37.88563	7.50E-10	2.13E-07	14062	F2r
ENSMUSG00000048445	-1.79159	2.30321	12.96883	0.000317	0.008297	71276	Ccdc57
ENSMUSG00000048458	-3.10952	4.270253	20.55062	5.81E-06	0.00039	NA	Fam212b
ENSMUSG00000048482	4.8962	2.913259	34.20275	4.97E-09	1.20E-06	NA	Bdnf
ENSMUSG00000048489	-1.56188	5.710466	11.17113	0.000831	0.017028	NA	8430408G22Rik
ENSMUSG00000048572	-1.0614	6.194155	10.18778	0.001414	0.025168	226040	Tmem252
ENSMUSG00000048706	-1.38779	2.362178	18.86715	1.40E-05	0.000771	52829	Lurap1l
ENSMUSG00000048707	-1.73178	2.352391	13.93315	0.000189	0.005544	97031	Tprn

ENSMUSG00000048782	-6.34576	0.268232	17.414	3.01E-05	0.001362	NA	Insc
ENSMUSG00000049115	-1.42187	3.472422	17.52977	2.83E-05	0.001306	11607	Agtr1a
ENSMUSG00000049265	-5.18064	2.461061	9.370272	0.002205	0.034059	16527	Kcnk3
ENSMUSG00000049288	1.183053	3.306011	8.602132	0.003358	0.045835	280411	Lix1l
ENSMUSG00000049313	-1.8422	5.838003	21.14248	4.26E-06	0.000308	20660	Sorl1
ENSMUSG00000049336	-8.46975	1.249619	70.57199	4.44E-17	6.31E-14	23964	Tenm2
ENSMUSG00000049502	1.476933	5.357335	50.03031	1.51E-12	8.28E-10	209200	Dtx3l
ENSMUSG00000049551	-3.32124	4.069735	15.44975	8.47E-05	0.003059	14371	Fzd9
ENSMUSG00000049717	-1.39418	2.831974	10.26025	0.001359	0.02463	319583	Lig4
ENSMUSG00000049723	4.442114	4.330704	8.664288	0.003245	0.044727	17381	Mmp12
ENSMUSG00000049734	1.041234	5.664919	15.09838	0.000102	0.00354	NA	Trex1
ENSMUSG00000049939	6.400305	1.480306	21.19898	4.14E-06	0.0003	192198	Lrrc4
ENSMUSG00000050010	-2.42093	2.451334	17.458	2.94E-05	0.001346	330096	Shisa3
ENSMUSG00000050071	-2.56405	4.565117	18.49706	1.70E-05	0.000893	19716	Bex1
ENSMUSG00000050105	-1.5588	4.722656	11.82914	0.000583	0.012959	72690	Grrp1
ENSMUSG00000050164	-7.09719	0.686126	24.72648	6.61E-07	6.67E-05	207911	Mchr1
ENSMUSG00000050271	1.361571	3.658686	10.58822	0.001138	0.021499	244418	D8Ert82e
ENSMUSG00000050370	2.096004	4.813354	60.82477	6.24E-15	6.34E-12	12642	Ch25h
ENSMUSG00000050541	-4.16849	-0.38978	20.5942	5.68E-06	0.000385	NA	Adra1b
ENSMUSG00000050860	-4.60349	6.619517	12.47817	0.000412	0.010168	237928	Phospho1
ENSMUSG00000051043	2.12285	4.996809	26.89702	2.15E-07	2.73E-05	70355	Gprc5c
ENSMUSG00000051048	1.931991	2.15942	11.75307	0.000607	0.013375	320452	P4ha3
ENSMUSG00000051166	-3.11662	2.907925	44.62275	2.39E-11	9.71E-09	319670	Eml5
ENSMUSG00000051177	-1.20206	4.141579	13.06618	0.000301	0.007964	18795	Plcb1
ENSMUSG00000051335	1.005848	3.68216	12.66005	0.000374	0.009471	328232	Gfod1
ENSMUSG00000051346	1.014227	4.239736	14.73393	0.000124	0.004011	66701	Spryd4
ENSMUSG00000051515	-2.43889	2.365528	12.28042	0.000458	0.011054	NA	Fam181b
ENSMUSG00000051980	6.406609	4.008809	16.45331	4.99E-05	0.001998	12374	Casr
ENSMUSG00000051984	-2.61383	4.38728	14.30711	0.000155	0.00477	240667	Sec31b
ENSMUSG00000052374	-2.11427	10.02341	12.36294	0.000438	0.010703	11472	Actn2
ENSMUSG00000052512	-1.40901	5.208149	9.723267	0.001819	0.029816	NA	Nav2
ENSMUSG00000052520	-4.4131	-0.52561	9.177933	0.00245	0.036816	13109	Cyp2j5
ENSMUSG00000052609	-1.03221	3.19176	9.881795	0.001669	0.028098	263406	Plekhg3
ENSMUSG00000052769	-4.61543	0.899203	9.95475	0.001604	0.027376	NA	Gm9889
ENSMUSG00000053004	-2.35969	3.153833	54.97652	1.22E-13	8.68E-11	NA	Hrh1
ENSMUSG00000053279	-1.12414	6.287858	18.2971	1.89E-05	0.000972	11668	Aldh1a1
ENSMUSG00000053559	-1.56282	3.346799	11.30299	0.000774	0.016258	NA	Smagp
ENSMUSG00000053626	-1.79834	2.74008	13.27987	0.000268	0.00731	21892	Tll1
ENSMUSG00000053647	-6.93367	2.265379	40.94736	1.56E-10	5.56E-08	76854	Gper1
ENSMUSG00000053702	-2.79481	1.872726	21.85855	2.94E-06	0.000226	74103	Nebi
ENSMUSG00000053846	2.677927	3.563143	29.19074	6.56E-08	1.06E-05	16891	Lipg
ENSMUSG00000053963	-4.82859	0.329497	10.20234	0.001403	0.025096	381310	6330403A02Rik
ENSMUSG00000054072	2.350403	8.80345	21.97805	2.76E-06	0.000214	NA	ligp1
ENSMUSG00000054074	-3.74653	0.503424	8.438661	0.003673	0.048694	72668	Skida1
ENSMUSG00000054083	-4.8591	0.196922	11.4136	0.000729	0.015432	60594	Capn12
ENSMUSG00000054204	-1.67299	3.264528	20.95857	4.69E-06	0.000335	1E+08	Fam150b
ENSMUSG00000054404	1.453437	6.485218	12.11769	0.000499	0.011665	327978	Slfn5

ENSMUSG00000054435	-1.61212	4.105304	8.381036	0.003792	0.049615	107526	Gimap4
ENSMUSG00000054690	-1.401	5.819611	10.90689	0.000958	0.018797	59308	Emcn
ENSMUSG00000054737	-2.09674	1.553247	13.01085	0.00031	0.008142	NA	Zfp182
ENSMUSG00000054889	-6.37778	3.459333	13.48645	0.00024	0.006689	109620	Dsp
ENSMUSG00000054978	4.247427	3.357583	9.916475	0.001638	0.027799	74492	Kbtbd13
ENSMUSG00000055022	-2.84546	3.044023	17.57169	2.77E-05	0.001286	NA	Cntn1
ENSMUSG00000055027	4.601127	8.175228	13.5988	0.000226	0.006413	12180	Smyd1
ENSMUSG00000055093	4.388149	5.172175	9.295089	0.002298	0.035051	NA	Gm8430
ENSMUSG00000055421	-1.36594	2.233388	18.91007	1.37E-05	0.000761	211712	Pcdh9
ENSMUSG00000055805	-1.30827	3.579071	20.50335	5.95E-06	0.000396	57778	Fmnl1
ENSMUSG00000055994	-1.57863	3.332086	8.997992	0.002703	0.039224	257632	Nod2
ENSMUSG00000056071	-4.50983	1.691144	12.01254	0.000528	0.012172	20202	S100a9
ENSMUSG00000056091	-1.42921	5.290764	23.56901	1.21E-06	0.000113	20454	St3gal5
ENSMUSG00000056418	-4.58025	1.063856	9.823285	0.001723	0.028809	NA	BC043934
ENSMUSG00000056492	-1.26	7.970409	13.48804	0.00024	0.006689	224792	Gpr116
ENSMUSG00000056966	-1.74505	1.762893	11.99433	0.000534	0.012203	118446	Gjc3
ENSMUSG00000057003	1.675179	14.28073	15.43684	8.53E-05	0.003071	17884	Myh4
ENSMUSG00000057182	3.61634	2.423569	18.09918	2.10E-05	0.00105	20269	Scn3a
ENSMUSG00000057359	-1.43558	1.979031	18.88398	1.39E-05	0.000769	NA	Gm17494
ENSMUSG00000057604	-1.32649	7.036303	12.27037	0.00046	0.011076	30937	Lmcd1
ENSMUSG00000057722	-1.37597	4.820423	12.22243	0.000472	0.011237	16847	Lepr
ENSMUSG00000057751	-5.41228	2.477004	54.42794	1.61E-13	1.04E-10	230971	Megf6
ENSMUSG00000057969	-1.24194	4.118466	10.25153	0.001366	0.024666	20347	Sema3b
ENSMUSG00000058145	2.55535	0.670762	16.88385	3.97E-05	0.001682	233332	Adamts17
ENSMUSG00000058152	1.297984	2.399751	9.905172	0.001648	0.027909	78923	Chsy3
ENSMUSG00000058914	2.656606	4.371453	14.83174	0.000118	0.003906	81799	C1qtnf3
ENSMUSG00000059013	-2.27918	5.611763	26.57892	2.53E-07	3.08E-05	27387	Sh2d3c
ENSMUSG00000060477	-1.53264	4.456532	15.76457	7.17E-05	0.002671	108960	Irak2
ENSMUSG00000060487	-2.89121	1.40451	15.64867	7.63E-05	0.00281	320825	Samd5
ENSMUSG00000060548	-3.56802	3.918156	20.12523	7.25E-06	0.000467	NA	Tnfrsf19
ENSMUSG00000061462	-2.22405	10.31288	14.1892	0.000165	0.004992	380698	Obscn
ENSMUSG00000061762	2.767432	6.31998	130.6618	2.94E-30	1.04E-26	21333	Tac1
ENSMUSG00000061816	2.200623	11.96292	20.74937	5.23E-06	0.000363	17901	Myl1
ENSMUSG00000061906	-6.74044	-0.02435	14.11356	0.000172	0.005143	100559	Ugt2b38
ENSMUSG00000062040	-1.90446	2.708157	13.51779	0.000236	0.006643	NA	Zfp27
ENSMUSG00000062329	-1.46687	4.494433	13.12123	0.000292	0.007763	231162	Cyt11
ENSMUSG00000062488	1.677928	3.498391	12.55645	0.000395	0.009905	667370	I830012O16Rik
ENSMUSG00000062591	-2.40941	3.371557	27.61929	1.48E-07	2.02E-05	22153	Tubb4a
ENSMUSG00000062691	-1.21814	3.319351	16.7338	4.30E-05	0.001778	NA	Cebpzoz
ENSMUSG00000063268	1.115283	4.700122	17.93856	2.28E-05	0.001116	NA	Parp10
ENSMUSG00000063296	-4.91305	4.126634	86.45891	1.43E-20	2.90E-17	320709	Tmem117
ENSMUSG00000063388	2.462768	4.397789	19.5974	9.56E-06	0.000581	NA	BC023105
ENSMUSG00000063564	-1.20515	4.04461	9.035855	0.002647	0.038661	237759	Col23a1
ENSMUSG00000064325	-2.07228	2.833991	18.74375	1.50E-05	0.000811	15245	Hhip
ENSMUSG00000066072	-6.36172	-0.68523	16.27031	5.49E-05	0.002158	13117	Cyp4a10
ENSMUSG00000066270	1.148416	4.379594	8.897755	0.002855	0.040613	NA	Gm10157
ENSMUSG00000066677	2.581085	2.201241	17.94191	2.28E-05	0.001116	1E+08	Pydc3

ENSMUSG00000066861	3.76164	1.180717	21.54	3.47E-06	0.000258	23960	Oas1g
ENSMUSG00000067149	4.020906	1.16675	8.629644	0.003307	0.045235	16069	Igj
ENSMUSG00000067818	-1.25741	5.700478	17.578	2.76E-05	0.001286	98932	Myl9
ENSMUSG00000067928	-2.83414	2.022532	15.11026	0.000101	0.003527	240034	Zfp760
ENSMUSG00000068079	-2.19047	4.831116	35.61973	2.40E-09	6.20E-07	21407	Tcf15
ENSMUSG00000068606	2.820186	5.004582	9.748999	0.001794	0.02956	225594	Gm4841
ENSMUSG00000068614	2.714365	8.965963	10.76654	0.001034	0.019947	11464	Actc1
ENSMUSG00000068747	-1.66781	6.128882	38.03382	6.95E-10	2.02E-07	20661	Sort1
ENSMUSG00000068874	-1.00903	4.785156	9.598837	0.001947	0.031187	20341	Selenbp1
ENSMUSG00000069515	5.534215	2.810688	18.27397	1.91E-05	0.000979	17110	Lyz1
ENSMUSG00000069806	2.175523	1.674374	10.886	0.000969	0.018984	81904	Cacng7
ENSMUSG00000069874	1.700317	5.804062	11.26375	0.00079	0.016508	54396	Irgm2
ENSMUSG00000070323	-4.62628	-0.16312	10.47963	0.001207	0.022383	234911	Mmp27
ENSMUSG00000070327	1.011655	5.756405	9.971233	0.00159	0.027257	672511	Rnf213
ENSMUSG00000070348	-1.4563	3.977007	9.107712	0.002545	0.037518	12443	Ccnd1
ENSMUSG00000070639	-2.10397	2.750977	20.44768	6.13E-06	0.000404	433926	Lrrc8b
ENSMUSG00000070720	1.112674	3.237239	11.67882	0.000632	0.01377	623230	Tmem200b
ENSMUSG00000070880	-3.4125	-0.0216	16.82821	4.09E-05	0.001717	14415	Gad1
ENSMUSG00000071001	-1.013	2.70857	11.10897	0.000859	0.017358	1E+08	Hrct1
ENSMUSG00000071042	-2.84593	5.590223	31.22932	2.29E-08	4.73E-06	NA	Rasgrp3
ENSMUSG00000071226	-1.31805	4.083966	14.17247	0.000167	0.005026	330409	Cecr2
ENSMUSG00000071456	-1.49272	1.153574	8.674516	0.003227	0.044519	NA	1110002L01Rik
ENSMUSG00000071540	5.694062	7.80514	12.87229	0.000333	0.008652	1.01E+08	3425401B19Rik
ENSMUSG00000071567	-3.4594	2.561448	10.72336	0.001058	0.020348	NA	A830039N20Rik
ENSMUSG00000071669	-1.70716	2.104272	17.42528	2.99E-05	0.001362	74478	Snx29
ENSMUSG00000071847	-1.34319	3.061964	9.186707	0.002438	0.036693	494504	Apcdd1
ENSMUSG00000072109	-2.90978	-0.56906	12.3261	0.000447	0.010842	NA	A530040E14Rik
ENSMUSG00000073096	-1.41648	3.416494	15.43236	8.55E-05	0.003071	NA	Lrrc61
ENSMUSG00000073415	-2.28023	0.710358	16.46882	4.95E-05	0.00199	NA	Gm10501
ENSMUSG00000073599	-1.39372	5.513013	25.32864	4.83E-07	5.17E-05	68545	Ecscr
ENSMUSG00000073600	-6.32369	6.068605	27.98012	1.23E-07	1.73E-05	381148	Prob1
ENSMUSG00000073682	-2.83154	2.573629	10.77694	0.001028	0.019867	NA	Gm10563
ENSMUSG00000074093	-4.70797	4.331629	65.51309	5.77E-16	7.46E-13	75744	Svip
ENSMUSG00000074158	2.807675	1.030549	14.32113	0.000154	0.004745	208111	9830147E19Rik
ENSMUSG00000074218	-1.58967	6.627631	8.593787	0.003373	0.045935	12865	Cox7a1
ENSMUSG00000074227	-1.74953	3.737589	22.99801	1.62E-06	0.000139	20733	Spint2
ENSMUSG00000074272	-2.02677	4.760064	20.45395	6.11E-06	0.000404	26365	Ceacam1
ENSMUSG00000074811	-1.21128	1.937939	11.91338	0.000557	0.012562	20170	Hps6
ENSMUSG00000074896	1.964031	5.55939	16.00947	6.30E-05	0.002423	15959	Ifit3
ENSMUSG00000075033	-2.26245	1.236699	8.640402	0.003288	0.045055	385658	Nxpe3
ENSMUSG00000075307	4.795171	9.422396	28.89611	7.64E-08	1.19E-05	228003	Klhl41
ENSMUSG00000076434	-2.45227	4.255274	12.14162	0.000493	0.011574	71856	Wfdc3
ENSMUSG00000076612	10.44948	1.701498	11.98127	0.000537	0.012269	NA	Ighg2c
ENSMUSG00000078670	-1.75123	3.584707	12.15967	0.000488	0.011519	1E+08	Fam174b
ENSMUSG00000078853	1.245297	6.570496	19.4427	1.04E-05	0.00062	16145	Igtp
ENSMUSG00000078920	1.865287	5.73188	29.18308	6.59E-08	1.06E-05	NA	Ifi47
ENSMUSG00000078937	3.443136	7.445274	12.63347	0.000379	0.009556	12895	Cpt1b

ENSMUSG00000079227	2.044403	1.389969	10.19255	0.00141	0.025166	12774	Ccr5
ENSMUSG00000079434	-3.31344	3.285016	21.40148	3.72E-06	0.000276	NA	Neu2
ENSMUSG00000079442	1.04696	4.648653	15.59484	7.85E-05	0.002869	20448	St6galnac4
ENSMUSG00000079465	-1.22956	3.118172	9.136937	0.002505	0.037271	12828	Col4a3
ENSMUSG00000079588	2.960295	7.699234	13.50373	0.000238	0.006666	381339	Tmem182
ENSMUSG00000079654	-3.67979	1.237794	15.60046	7.82E-05	0.002868	101359	Prrt4
ENSMUSG00000081137	-2.92178	0.543766	14.35942	0.000151	0.00467	NA	BC022960
ENSMUSG00000081855	7.728285	4.830569	8.576544	0.003405	0.046129	NA	Rpl17-ps5
ENSMUSG00000081967	5.448427	3.196064	32.16235	1.42E-08	3.10E-06	NA	Gm14017
ENSMUSG00000082292	2.860627	3.660245	50.32592	1.30E-12	7.41E-10	NA	Gm12250
ENSMUSG00000084843	5.729916	3.523572	17.80439	2.45E-05	0.001183	NA	B230312C02Rik
ENSMUSG00000084939	-3.51903	0.861763	8.561564	0.003433	0.046334	NA	Gm830
ENSMUSG00000085604	1.806037	0.90709	14.4773	0.000142	0.004464	NA	Dhx58os
ENSMUSG00000085667	-1.74854	0.575994	9.712065	0.001831	0.02995	NA	Gm12992
ENSMUSG00000086040	-2.94063	3.631116	25.74909	3.89E-07	4.29E-05	NA	Wipf3
ENSMUSG00000086245	-3.01546	3.189339	9.30629	0.002284	0.034966	NA	Gm16170
ENSMUSG00000086584	-2.03718	3.13892	9.390326	0.002181	0.03385	NA	Gm12002
ENSMUSG00000086769	-3.34517	0.843046	14.34004	0.000153	0.004708	NA	Gm15587
ENSMUSG00000086938	-2.31074	1.233447	21.20999	4.12E-06	0.0003	NA	4930481A15Rik
ENSMUSG00000087308	-6.59076	-0.26243	18.94211	1.35E-05	0.000752	NA	Gm16195
ENSMUSG00000087365	-2.63466	0.375235	14.80189	0.000119	0.003936	NA	C430049B03Rik
ENSMUSG00000087543	-1.19892	2.419227	9.176721	0.002451	0.036816	NA	Gm16576
ENSMUSG00000090272	1.176943	6.026574	12.54635	0.000397	0.009924	1E+08	Mndal
ENSMUSG00000090290	1.188929	2.583472	9.445947	0.002116	0.03315	212728	Gm17296
ENSMUSG00000090387	-1.41662	2.56164	9.970697	0.001591	0.027257	NA	Gm17056
ENSMUSG00000092083	-8.22006	1.253021	45.41487	1.59E-11	6.82E-09	98741	Kcnb2
ENSMUSG00000092260	-1.33933	2.216143	8.651925	0.003267	0.044987	620419	Zfp963
ENSMUSG00000092607	-1.09141	3.541776	16.18381	5.75E-05	0.00224	69269	Scnm1
ENSMUSG00000094345	9.378933	-0.41203	9.1331	0.00251	0.03731	NA	Igkv14-126
ENSMUSG00000094686	2.105525	8.535518	11.59226	0.000662	0.014273	18829	Ccl21a
ENSMUSG00000095193	-1.90252	0.76735	11.22041	0.000809	0.016716	1E+08	Gm20939
ENSMUSG00000095325	-1.44481	2.762498	11.18098	0.000826	0.016962	240066	Zfp870
ENSMUSG00000095362	1.372644	2.966129	10.31213	0.001322	0.024131	329575	Gm14325
ENSMUSG00000096188	1.177449	3.827518	16.08716	6.05E-05	0.002351	97487	Cmtm4
ENSMUSG00000096271	7.663992	0.382577	11.09906	0.000864	0.017426	65956	Ccl21b
ENSMUSG00000096929	-2.75003	2.770249	19.58422	9.63E-06	0.000583	NA	A330023F24Rik
ENSMUSG00000097154	-5.23075	-0.09702	14.10867	0.000173	0.005145	NA	Gm26510
ENSMUSG00000097233	-3.26849	1.760434	12.93529	0.000322	0.008416	NA	Gm17552
ENSMUSG00000097248	-2.57378	0.251059	11.45416	0.000713	0.015144	NA	Gm2694
ENSMUSG00000097317	-1.89657	3.632111	12.06352	0.000514	0.01197	NA	Gm17281
ENSMUSG00000097367	-6.96341	1.43636	8.994504	0.002708	0.039224	NA	Gm26718
ENSMUSG00000097451	-1.02969	5.321982	8.645923	0.003278	0.045049	NA	Rian
ENSMUSG00000098132	-5.15993	1.567074	17.21345	3.34E-05	0.00147	78748	Rassf10
ENSMUSG00000098134	-1.06296	3.005472	17.93641	2.28E-05	0.001116	66381	Rnf113a2
ENSMUSG00000099004	-1.56803	0.695722	9.547148	0.002003	0.031895	NA	Gm27656
ENSMUSG00000100625	-1.73159	0.645334	15.62969	7.70E-05	0.002831	NA	1700016G22Rik
ENSMUSG00000101609	-1.07851	5.631741	14.16819	0.000167	0.005027	NA	Kcnq1ot1

ENSMUSG00000102543	1.512459	2.154931	12.85124	0.000337	0.008722	93708	PCDHGC5
ENSMUSG00000102555	-3.01688	0.533594	18.99888	1.31E-05	0.000741	NA	RP23-474B13.2
ENSMUSG00000103268	-1.36716	7.248833	13.9377	0.000189	0.005542	NA	AC161246.1
ENSMUSG00000103672	-1.43572	1.83148	12.12197	0.000498	0.011658	NA	WI1-1981I9.3
ENSMUSG00000104476	-1.56372	1.334333	8.399853	0.003753	0.04935	NA	RP24-370G18.1