

Table S2. Differentially expressed genes between *Klf5* -wildtype and -null mouse dorsal prostates in the *Pten*-null background, as identified by microarray analysis. Fold-change was the mean value of 4 pairs of samples.

Gene symbol	RefSeq	Fold change	p -Value
Spink14	NM_001039218	18.25	3.17E-06
Sbp	NM_011321	15.72	8.32E-03
Smr2	NM_001252679	14.13	6.97E-04
Mug1	NM_008645	11.92	2.11E-05
Crabp1	NM_013496	11.90	5.95E-06
Abpb	NM_001100464	11.64	8.82E-04
Mug-ps1	NR_027619	11.23	2.76E-05
Psg27	NM_001037168	10.88	1.02E-05
Fam55b	NM_030069	9.24	2.86E-04
Mug-ps1	NR_027619	8.35	3.85E-05
Lcn13	NM_153558	7.61	2.53E-02
2610528A11Rik	NM_001206684	6.91	4.76E-07
Wfdc3	NM_027961	5.82	3.87E-05
Abo	NM_030718	5.36	7.93E-04
Cbs	NM_144855	5.21	9.39E-05
Trpv6	NM_022413	5.07	1.52E-04
Ttr	NM_013697	5.05	1.56E-03
Mmp12	NM_008605	4.96	2.91E-05
Abpa	NM_009596	4.92	8.07E-03
Gc	NM_008096	4.88	3.46E-02
Spink5	NM_001081180	4.58	2.17E-06
Rgs4	NM_009062	4.50	1.96E-03
Mug2	NM_008646	4.49	3.91E-06
Duoxa1	ENSMUST00000110537	4.35	9.90E-03
Spp1	NM_001204233	4.22	8.15E-06
A2m	ENSMUST00000032203	4.15	4.09E-03
Slc9a2	NM_001033289	4.15	5.39E-06
Krtap3-3	NM_025524	4.14	2.02E-03
Ugt2b35	NM_172881	4.13	8.65E-03
Cpn1	NM_030703	4.08	8.85E-03
Eci3	NM_026947	4.08	2.42E-03
Ppp1r3c	ENSMUST00000087321	4.07	2.12E-04
Adh6a	NM_026945	3.98	8.57E-03
Pak6	ENSMUST00000099557	3.89	1.00E-03
Erbp4	NM_010154	3.88	6.07E-04
Tac1	NM_009311	3.87	7.79E-03
BC100530	ENSMUST00000096089	3.85	1.12E-03
Serpina1b	NM_009244	3.80	1.01E-04
Prr9	NM_175424	3.76	2.01E-03

Col10a1	NM_009925	3.75	1.10E-02
Lpo	NM_080420	3.72	1.32E-04
Fabp5	NM_010634	3.69	4.69E-04
Abpg	NM_178308	3.68	1.36E-03
Fabp5	NM_010634	3.67	6.77E-04
Wfdc8	NM_001080550	3.65	9.33E-03
5430419D17Rik	NM_175166	3.56	9.71E-06
Clca2	NM_030601	3.46	1.73E-03
Ica11	NM_027407	3.46	1.06E-02
Sbpl	NM_001077421	3.42	1.09E-03
Scnn1b	NM_011325	3.40	1.29E-06
Bhlha15	NM_010800	3.38	4.39E-03
Onecut2	NM_194268	3.36	3.59E-02
Qpct	NM_027455	3.33	3.58E-05
Chi311	NM_007695	3.32	8.88E-03
Cited1	NM_007709	3.32	1.46E-03
Agtr1a	NM_177322	3.31	3.59E-02
Atp6v0d2	NM_175406	3.28	1.50E-03
Mmp13	ENSMUST00000015394	3.18	6.08E-05
Lrrc52	ENSMUST00000036643	3.12	8.42E-04
Gcnt4	NM_001166065	3.11	6.91E-05
Rasl11b	NM_026878	3.09	1.40E-03
Hdac9	NM_024124	3.03	1.18E-04
Gpr123	NM_177469	3.03	2.03E-06
Slc1a2	NM_001077514	3.01	2.01E-04
Stfa1	NM_001082543	3.01	1.13E-03
Psg25	NM_054060	3.00	2.21E-04
Cdhr1	NM_130878	2.99	1.99E-04
Egf	NM_010113	2.97	1.10E-03
Aldh1a2	NM_009022	2.93	3.07E-03
Tiaf2	AF075717	2.89	1.58E-05
Ccl20	NM_016960	2.89	3.61E-02
Fam38b	NM_001039485	2.86	5.94E-03
Azgp1	NM_013478	2.81	2.96E-02
Gm10403	AK134775	2.80	4.72E-04
Fam38b	NM_001039485	2.79	5.71E-03
Ank	NM_020332	2.78	5.49E-06
Spink6	NM_001013797	2.75	8.23E-04
Plod2	NM_001142916	2.74	6.42E-04
Cml3	NM_001037842	2.74	1.21E-03
GpnmB	NM_053110	2.73	2.65E-04
Arg1	NM_007482	2.72	9.56E-03
Coro6	ENSMUST00000102493	2.71	7.66E-05

R3hdml	NM_001099331	2.70	2.32E-03
Myo7b	NM_032394	2.69	4.34E-02
Gdpd2	NM_023608	2.69	5.61E-03
Derl3	NM_024440	2.67	1.80E-03
Nrn1	NM_153529	2.65	1.80E-03
Nav3	NM_001081035	2.64	1.91E-04
Papss2	NM_011864	2.64	3.05E-03
Fam38b	NM_001039485	2.62	7.52E-03
Ccnd2	NM_009829	2.62	4.10E-04
Fam55d	ENSMUST00000093853	2.61	2.57E-07
D7Ert443e	NM_001199941	2.61	2.96E-05
Angptl2	NM_011923	2.61	3.37E-03
Tex24	NM_001013609	2.60	2.49E-05
9530002B09Rik	NM_023865	2.60	1.18E-04
Padi2	NM_008812	2.57	1.73E-03
Nkx3-1	NM_010921	2.57	3.20E-02
Gm11128	NM_001201389	2.57	1.36E-03
Slc26a4	NM_011867	2.56	3.95E-02
Cyp7b1	NM_007825	2.56	9.16E-03
Klf8	NM_173780	2.54	1.68E-04
Masp2	NM_001003893	2.53	6.25E-03
Chrm3	NM_033269	2.53	4.91E-04
Tmem108	NM_178638	2.52	2.80E-02
Asrgl1	NM_025610	2.50	1.96E-04
Spon1	NM_145584	2.49	4.71E-03
S1pr3	NM_010101	2.49	7.36E-03
Sema3a	ENSMUST00000030714	2.48	7.83E-04
Pycr1	NM_144795	2.47	7.25E-05
Rgs5	ENSMUST00000027997	2.46	1.99E-03
Prlr	NM_011169	2.45	3.26E-03
Arg2	NM_009705	2.44	2.75E-03
Phlda2	NM_009434	2.44	2.07E-05
Aass	NM_013930	2.43	3.01E-03
Slc22a1	NM_009202	2.42	6.19E-03
Psg21	NM_027403	2.41	3.30E-05
Ankfn1	NM_001080933	2.40	1.33E-02
Zfp697	NM_172863	2.40	9.96E-05
Htr2b	NM_008311	2.40	8.90E-04
Clca1	ENSMUST00000059091	2.40	2.95E-03
Mia1	NM_019394	2.38	2.20E-04
Prlr	NM_011169	2.37	1.96E-03
Rimklb	NM_027664	2.37	1.92E-02
Srgap2	AY512953	2.35	2.44E-03

Ppbp	NM_023785	2.34	7.67E-03
Ceacam13	NM_027210	2.34	1.45E-03
Serpina1e	NM_009247	2.34	5.20E-05
Tm4sf4	NM_145539	2.33	3.83E-02
Aldh1a1	NM_013467	2.32	9.75E-04
Prss53	NM_001081268	2.31	1.04E-03
Adora2b	NM_007413	2.30	7.04E-04
Bmpr1b	NM_007560	2.30	4.54E-03
Ublcp1	NM_024475	2.27	2.45E-02
Cercam	NM_207298	2.26	3.93E-05
Fndc5	NM_027402	2.26	3.83E-04
P4ha3	NM_177161	2.26	2.29E-03
Cml3	NM_001037842	2.26	2.67E-03
4833422C13Rik	NR_028314	2.26	1.86E-03
Odz4	NM_011858	2.25	1.72E-03
Cntfr	NM_016673	2.24	7.48E-03
Trf	NM_133977	2.23	4.82E-03
Col15a1	NM_009928	2.19	1.17E-02
Steap1	NM_027399	2.19	3.26E-03
3110007F17Rik	BC027572	2.19	3.55E-02
Ccl28	NM_020279	2.18	4.18E-02
Amotl1	NM_001081395	2.18	2.04E-04
Stc2	NM_011491	2.17	9.92E-03
Rgs5	ENSMUST00000027997	2.17	3.47E-03
Cpne5	NM_153166	2.17	1.67E-02
Ednrb	NM_007904	2.15	1.97E-04
Acnat1	NM_001164565	2.15	3.71E-03
Fah	NM_010176	2.15	3.90E-05
Dgkh	NM_001081336	2.15	7.11E-07
Clec4n	NM_020001	2.14	4.05E-03
Ms4a14	ENSMUST00000067600	2.14	5.07E-03
Clec4e	NM_019948	2.14	2.43E-03
Tbc1d24	NM_173186	2.13	1.74E-03
Doc2b	NM_007873	2.13	1.06E-03
Lhfp	NM_175386	2.13	9.03E-04
Kng2	NM_201375	2.13	1.63E-03
Raver2	NM_183024	2.13	1.31E-03
LOC100504608	NM_001205036	2.12	6.86E-05
Msr1	NM_031195	2.12	3.32E-04
Pla1a	NM_134102	2.11	2.34E-02
Rxrg	NM_009107	2.11	4.93E-03
Sstr2	NM_009217	2.10	7.62E-04
Slc6a2	NM_009209	2.10	8.86E-03

Mug2	NM_008646	2.10	1.65E-04
Irg1	ENSMUST00000022722	2.10	8.41E-03
Ggt1	ENSMUST00000134503	2.09	1.75E-03
AI646023	NM_198860	2.09	1.14E-04
Tnc	NM_011607	2.09	3.28E-02
Filip11	NM_001040397	2.09	9.60E-03
Camk2b	NM_007595	2.09	4.37E-02
Slc16a10	NM_001114332	2.08	6.35E-06
Slc7a8	NM_016972	2.08	2.19E-03
Fbn1	ENSMUST00000103234	2.08	1.21E-02
Cyp3a57	NM_001100180	2.08	3.54E-02
Cntnap2	NM_001004357	2.08	2.65E-02
Mme	NM_008604	2.08	2.50E-04
Spatc1	NM_028852	2.08	1.61E-02
1700072H12Rik	AK006938	2.08	1.54E-03
Ccbe1	NM_178793	2.07	2.82E-03
Mtmr7	NM_001040699	2.07	4.89E-02
3110007F17Rik	BC027572	2.07	3.74E-02
Ddo	NM_027442	2.07	2.88E-03
Rgs2	NM_009061	2.06	7.78E-05
Fam184a	NM_001081428	2.06	1.82E-05
Cd80	NM_009855	2.06	1.72E-03
Ctnnal1	NM_018761	2.05	1.46E-06
A330021E22Rik	BC062906	2.04	5.95E-04
Ggt1	NM_010283	2.04	2.32E-03
Gzmc	NM_010371	2.04	3.52E-03
Gstm6	NM_008184	2.03	4.02E-02
Gm5087	NM_177813	2.03	3.61E-03
Anxa6	NM_013472	2.03	1.09E-04
Psg18	NM_011963	2.03	2.96E-03
Syt15	NM_177704	2.02	1.88E-03
Tdrd5	NM_001134741	2.02	2.32E-03
D730039F16Rik	BC021771	2.02	2.85E-03
Hey1	NM_010423	2.00	1.41E-02
Spinlw1	NM_029325	2.00	2.60E-02
Ero11b	NM_026184	2.00	3.89E-03
Ak4	NM_001177602	1.99	2.58E-03
Dact1	NM_001190466	1.99	4.55E-04
Hist1h2be	NM_001177653	1.98	1.03E-03
Ccl3	NM_011337	1.98	1.26E-03
Ceacam20	NM_027839	1.97	4.45E-04
Mir181b-1	NR_029820	1.96	9.20E-04
Olr1	NM_138648	1.96	1.29E-03

Bok	NM_016778	1.96	1.93E-04
Steap4	ENSMUST00000115421	1.95	9.47E-03
3110007F17Rik	BC027572	1.95	4.07E-02
Kcnn4	NM_008433	1.95	3.90E-03
Lrrc32	NM_001113379	1.95	2.00E-02
Aldh6a1	NM_134042	1.94	2.31E-05
Hc	NM_010406	1.93	2.34E-03
Il1a	NM_010554	1.93	1.79E-02
Aqp9	NM_022026	1.93	5.91E-05
St3gal4	NM_009178	1.93	3.69E-04
Shisa2	NM_145463	1.92	2.06E-03
Serpina1a	NM_001252569	1.92	1.86E-05
Pknox2	NM_001029838	1.92	3.52E-03
Ranbp17	NM_023146	1.92	6.49E-04
Caln1	NM_181045	1.92	3.87E-03
Eif4ebp1	NM_007918	1.91	9.76E-05
Gjal	NM_010288	1.91	2.74E-02
Cxcl2	NM_009140	1.91	3.06E-02
Fam132a	NM_026125	1.90	1.15E-03
Clec4d	NM_010819	1.90	1.24E-03
Chodl	NM_139134	1.88	1.99E-02
Slc25a43	NM_001085497	1.88	2.01E-04
Bmp7	NM_007557	1.88	3.55E-03
Palmd	NM_023245	1.88	6.79E-04
Serpina3n	NM_009252	1.88	3.92E-02
Gzmb	NM_013542	1.87	6.55E-04
Thbs2	NM_011581	1.87	1.83E-02
Gzmd	NM_010372	1.87	4.08E-02
Fhl5	NM_021318	1.87	8.22E-04
Kdelr3	NM_134090	1.86	8.62E-04
Ttc7b	NM_001033213	1.86	1.68E-04
Efna3	NM_010108	1.86	4.55E-03
Cd7	NM_009854	1.86	2.30E-02
Dppa2	NM_028615	1.85	9.25E-06
Pla2g7	NM_013737	1.85	1.96E-03
Trem1	NM_021406	1.85	5.82E-04
Sfrp1	NM_013834	1.85	2.47E-02
Crabp2	NM_007759	1.84	2.28E-04
Slc16a12	NM_172838	1.84	1.65E-04
Selp	NM_011347	1.84	2.07E-02
Fcer2a	NM_013517	1.84	1.13E-02
Prrg3	NM_001081135	1.83	1.60E-02
Abhd3	NM_134130	1.83	2.38E-03

Lox	NM_010728	1.83	1.94E-02
Scin	NM_001146196	1.83	1.85E-02
Gp49a	ENSMUST00000102894	1.83	1.86E-03
Flrt3	NM_001172160	1.83	3.15E-04
Vcam1	NM_011693	1.82	1.94E-02
Cad	NM_023525	1.82	6.17E-04
Cd93	NM_010740	1.82	1.85E-02
Pdgfd	NM_027924	1.82	1.03E-04
Adamts4	ENSMUST00000006570	1.81	3.38E-04
Hilpda	NM_023516	1.81	2.06E-04
Cck	NM_031161	1.81	2.46E-03
Pdgfrb	NM_001146268	1.81	4.25E-02
Mgst1	NM_019946	1.81	5.91E-05
Ceacam12	NM_026087	1.81	4.62E-03
Pilra	NM_153510	1.81	6.80E-04
4932411E22Rik	BC140961	1.80	4.97E-03
Lphn2	NM_001081298	1.80	1.83E-03
Ephx3	NM_001033163	1.80	2.49E-02
Slc39a6	NM_139143	1.80	9.67E-05
Dos	NR_036582	1.80	2.30E-05
Cmah	NM_001111110	1.79	7.55E-04
Rab31	NM_133685	1.79	7.88E-06
Cd80	ENSMUST00000104896	1.79	8.14E-03
Soat1	NM_009230	1.79	4.52E-04
Mrc2	NM_008626	1.79	7.87E-03
Fmo4	NM_144878	1.79	1.75E-02
Spred3	NM_182927	1.79	3.55E-06
Cdh17	NM_019753	1.79	7.34E-03
Hoxb13	ENSMUST00000062709	1.79	1.54E-04
Vsnl1	NM_012038	1.78	4.34E-02
Bambi	NM_026505	1.78	2.61E-05
Mmp8	NM_008611	1.78	3.44E-03
Il1f9	NM_153511	1.77	2.35E-02
Prom2	ENSMUST00000028855	1.77	2.93E-03
Rev3l	NM_011264	1.77	2.19E-04
Tnnt2	NM_001130175	1.77	5.78E-04
Scarna17	NR_028560	1.77	6.99E-06
Scarna17	NR_028560	1.77	6.99E-06
Tgm1	NM_001161715	1.77	2.20E-03
Colla1	NM_007742	1.77	2.71E-02
Gmpr	NM_025508	1.76	3.06E-03
Dclk3	NM_172928	1.76	3.63E-03
Col5a2	NM_007737	1.76	2.27E-02

Adamts12	NM_175501	1.76	9.74E-03
Tnfrsf26	ENSMUST00000055723	1.75	1.07E-03
Lipg	NM_010720	1.75	2.17E-02
Cdh5	NM_009868	1.75	8.41E-03
Jag2	NM_010588	1.75	7.33E-03
Timp1	NM_001044384	1.75	3.66E-02
Pqlc3	NM_172574	1.74	5.41E-03
Clec7a	NM_020008	1.74	4.64E-03
Tcf7l1	NM_001079822	1.74	2.58E-04
Tnfrsf23	NM_024290	1.74	6.25E-03
Zfp389	NR_026798	1.74	3.51E-03
Atp8b5	NM_177195	1.74	1.43E-04
Treh	NM_021481	1.74	4.04E-02
Grb14	NM_016719	1.74	3.40E-04
Plcx2	NM_001134480	1.74	7.90E-03
Kcnj2	NM_008425	1.74	2.52E-04
Flt1	NM_010228	1.74	3.25E-03
Gm10002	AK040372	1.73	3.11E-02
Pde3a	NM_018779	1.73	1.79E-03
Glis3	ENSMUST00000162022	1.73	8.94E-03
Col1a2	NM_007743	1.73	1.55E-02
Aqp1	NM_007472	1.73	6.94E-03
Cd300lf	NM_001169153	1.73	2.74E-03
Trem3	NM_021407	1.73	1.35E-03
Pdgfrl	NM_026840	1.72	4.47E-02
Slc5a8	NM_145423	1.72	3.80E-02
Slc16a4	NM_146136	1.72	4.03E-03
Gm10400	NR_033555	1.72	4.83E-03
Cxcr2	NM_009909	1.72	4.40E-02
Gstm7	NM_026672	1.72	2.85E-02
Il1b	NM_008361	1.71	4.86E-03
Lrrc3b	NM_146052	1.70	3.11E-03
Gpx3	NM_008161	1.70	4.05E-03
Paqr3	NM_198422	1.70	1.21E-03
Pm20d1	NM_178079	1.70	1.81E-03
Adm	NM_009627	1.70	6.43E-03
Slc19a2	NM_054087	1.70	3.35E-04
Parp8	NM_001081009	1.69	1.19E-05
Pfkfb3	NM_001177753	1.69	1.38E-03
Rcn1	NM_009037	1.69	7.43E-04
Ctsz	NM_022325	1.69	1.26E-03
Col3a1	NM_009930	1.69	2.00E-02
Rmnd5a	NM_024288	1.69	1.24E-04

Ttc12	NM_172770	1.69	1.13E-04
Arhgap24	NM_029270	1.68	4.73E-04
Rgs1	NM_015811	1.68	1.06E-03
Apln	NM_013912	1.68	6.19E-04
Gstt1	NM_008185	1.68	6.10E-04
Slc25a23	NM_025877	1.68	8.56E-03
Ttyh2	NM_053273	1.68	1.56E-02
Wbscr17	NM_145218	1.67	4.87E-03
Col4a2	ENSMUST00000033899	1.67	2.01E-02
Osbpl1a	NM_207530	1.67	7.42E-04
Yif1b	NM_029887	1.67	1.35E-04
Efcab5	NM_176965	1.67	8.58E-03
Egr2	NM_010118	1.67	3.32E-02
Rasgrp3	NM_207246	1.66	3.81E-02
Angpt2	NM_007426	1.66	1.92E-04
Spry2	NM_011897	1.66	2.13E-03
Gga2	NM_028758	1.66	1.55E-04
Il34	NM_029646	1.66	5.97E-04
Nudt10	NM_001031664	1.66	9.88E-03
Tril	NM_025817	1.66	2.49E-02
Abpz	NM_177446	1.66	1.64E-03
Gm10267	ENSMUST00000091916	1.66	1.73E-03
Gm14005	NR_028590	1.66	4.76E-02
Loxl1	NM_010729	1.65	3.10E-02
Bbs4	NM_175325	1.65	2.41E-04
Lyz2	NM_017372	1.65	1.60E-02
Ccl25	NM_009138	1.65	2.48E-03
Auts2	NM_177047	1.65	1.43E-03
Chst11	NM_021439	1.65	1.44E-02
Pesk6	NM_011048	1.65	4.01E-02
Lphn2	NM_001081298	1.65	6.34E-04
Cxcl1	NM_008176	1.65	1.60E-02
Trib3	NM_175093	1.65	5.98E-04
Mir181b-2	NR_029904	1.65	4.85E-02
1700011H14Rik	NM_025956	1.65	5.70E-03
Lphn2	NM_001081298	1.65	3.61E-03
Itgax	NM_021334	1.65	3.47E-02
Farp2	NM_145519	1.64	5.14E-04
Prss2	NM_009430	1.64	8.88E-04
Ap1s2	NM_026887	1.64	7.59E-03
Gpr153	NM_178406	1.64	7.32E-03
Cd300ld	NM_145437	1.64	1.13E-03
Mdk	NM_010784	1.64	1.25E-02

Mt1	NM_013602	1.64	2.61E-05
Apobec1	NM_031159	1.64	1.73E-03
Slc2a12	NM_178934	1.63	4.17E-03
Mat2a	NM_145569	1.63	3.34E-05
Aldh7a1	NM_001127338	1.63	1.59E-04
Slc39a14	NM_001135151	1.63	5.72E-04
Lphn2	NM_001081298	1.63	3.14E-03
Ctns	NM_031251	1.63	2.36E-03
Plekhh2	NM_177606	1.63	2.55E-04
Slco2a1	NM_033314	1.63	7.00E-04
Cp	NM_001042611	1.63	2.02E-03
Sirpb1b	NM_001173460	1.63	3.79E-02
Ctnnd2	NM_008729	1.63	2.27E-02
Igsf6	NM_030691	1.63	3.25E-03
Hdc	NM_008230	1.62	2.18E-02
Prkg2	ENSMUST00000161490	1.62	3.96E-02
Hmcn1	NM_001024720	1.62	9.37E-04
Tm4sf19	NM_001160402	1.62	9.31E-03
Ctsk	NM_007802	1.62	4.16E-02
Mfap3l	NM_027756	1.62	2.31E-03
Glis3	NM_175459	1.62	2.02E-02
Gtf2h5	NM_181392	1.62	1.13E-03
Pgf	NM_008827	1.62	1.73E-02
Tnfrsf12a	NM_013749	1.62	1.37E-02
Fetub	NM_021564	1.62	1.70E-02
Greb1l	NM_001083628	1.62	2.81E-02
Tuba4a	NM_009447	1.62	1.95E-04
Trpm3	ENSMUST00000112704	1.62	2.33E-04
Hmcn1	NM_001024720	1.62	8.84E-03
Tspan7	NM_019634	1.62	2.12E-02
Fbn2	NM_010181	1.62	4.11E-05
Nek5	NM_177898	1.61	2.75E-03
Wdr52	NM_001033247	1.61	1.32E-02
Cd40	NR_027852	1.61	2.73E-03
Try10	NM_001038996	1.61	7.42E-03
Hmcn1	ENSMUST00000074783	1.61	1.81E-02
Chrnbl	NM_009601	1.61	1.64E-04
Cdh3	NM_001037809	1.61	1.25E-02
Glipr1	NM_028608	1.61	2.29E-02
Lrp2bp	NM_026278	1.60	4.62E-04
Fam3c	NM_138587	1.60	5.99E-04
S100a8	NM_013650	1.60	1.79E-02
Clec11a	NM_009131	1.60	3.67E-03

Dio3	NM_172119	1.60	8.30E-03
Best1	NM_011913	1.60	2.52E-03
Esam	NM_027102	1.60	8.95E-03
Acad8	NM_025862	1.60	1.97E-04
Lphn2	NM_001081298	1.60	3.61E-04
Clca5	ENSMUST00000040465	1.60	7.72E-03
Bckdhb	ENSMUST00000034801	1.60	1.05E-04
Fam167a	NM_177628	1.60	8.21E-04
Zfp354b	NM_013744	1.60	1.59E-03
Crlf1	NM_018827	1.60	2.22E-02
Emcn	ENSMUST00000122064	1.59	5.61E-03
Loxl3	NM_013586	1.59	3.55E-02
Adamts9	NM_175314	1.59	5.51E-03
Fv1	NM_010244	1.59	6.70E-04
Greb11	NM_001083628	1.59	3.46E-02
Gpr116	NM_001081178	1.59	8.14E-03
Sema6a	NM_018744	1.59	2.61E-02
Mfap5	NM_015776	1.59	4.10E-02
Rasgrf1	NM_011245	1.59	5.80E-04
Preld2	NM_029942	1.59	4.70E-03
Osbpl3	NM_027881	1.59	1.37E-03
Nphs2	NM_130456	1.59	2.40E-04
Apold1	NM_001109914	1.58	3.86E-03
Susd2	NM_027890	1.58	9.92E-03
Gucy2g	NM_001081076	1.58	2.19E-03
Psg28	NM_054063	1.58	3.84E-04
Hmcn1	ENSMUST00000074783	1.58	1.15E-02
Slc25a33	NM_027460	1.58	6.05E-04
Il22ra1	NM_178257	1.58	1.39E-02
Lass6	ENSMUST00000028426	1.58	7.01E-04
Padi3	NM_011060	1.58	2.61E-02
Fgd5	ENSMUST00000089334	1.58	2.87E-03
Fkbp10	NM_010221	1.58	3.94E-02
Trim30b	NM_175648	1.58	1.30E-02
Mtap2	NM_001039934	1.58	2.48E-02
Angptl4	ENSMUST00000002360	1.58	8.42E-03
Fam198b	NM_133187	1.57	2.67E-02
Abtb2	NM_178890	1.57	6.51E-03
Pdgfb	NM_011057	1.57	4.92E-04
Med22	NM_011513	1.57	4.13E-04
Ddi1	NM_027942	1.57	1.99E-03
Fcgr4	NM_144559	1.57	2.79E-02
Sprr1a	NM_009264	1.57	7.21E-03

Slc11a1	NM_013612	1.57	5.85E-03
Fzd8	ENSMUST00000041080	1.57	1.50E-02
Pomgnt1	NM_026651	1.56	8.11E-05
Ndrg1	NM_008681	1.56	1.03E-02
Nlrp9b	NM_194058	1.56	3.29E-02
Ovgp1	NM_007696	1.56	8.77E-03
Lphn2	NM_001081298	1.56	3.56E-04
Proc	NM_001042768	1.56	5.20E-04
Bmper	NM_028472	1.56	2.40E-02
Tmem146	NM_175350	1.56	7.53E-03
Chka	NM_013490	1.56	9.23E-03
Aox1	NM_009676	1.56	1.99E-02
Srsf12	NM_177774	1.56	1.88E-02
Cpm	NM_027468	1.56	2.23E-02
Tmeff1	NM_021436	1.55	1.39E-02
Pcdh18	NM_130448	1.55	7.66E-03
Sdc2	NM_008304	1.55	6.37E-06
A530064D06Rik	NM_178796	1.55	1.01E-02
Col4a1	NM_009931	1.55	1.56E-02
Dpysl3	NM_009468	1.55	4.89E-03
Irs1	NM_010570	1.55	1.35E-02
Prnd	NM_023043	1.55	2.00E-02
Aif1l	NM_145144	1.55	2.98E-02
Bcl6b	NM_007528	1.55	2.74E-03
1810011O10Rik	NM_026931	1.55	1.60E-03
Fbxo36	NM_025386	1.55	1.55E-02
Aoah	NM_012054	1.55	3.24E-02
Hhex	NM_008245	1.55	1.16E-03
Il17rb	NM_019583	1.55	3.82E-06
Nrp1	NM_008737	1.55	3.82E-03
Clec5a	NM_001038604	1.55	2.76E-02
Ripk3	NM_019955	1.55	2.19E-03
Adarb1	NR_004429	1.55	2.09E-04
Csf3r	NM_007782	1.55	4.34E-02
D6Mm5e	NM_033079	1.55	4.83E-04
Ptprb	NM_029928	1.55	2.85E-02
Hmcn1	NM_001024720	1.55	1.51E-02
Cited2	NM_010828	1.54	1.79E-03
Slc16a1	NM_009196	1.54	1.47E-02
Ms4a7	ENSMUST00000025574	1.54	1.18E-02
Rps6ka5	NM_153587	1.54	2.90E-03
Bnip3	NM_009760	1.54	4.14E-04
Spred2	BC040462	1.54	5.37E-04

6330416G13Rik	ENSMUST00000077709	1.54	1.42E-02
Socs2	NM_007706	1.54	1.63E-03
Scel	NM_022886	1.54	4.44E-02
Ninj1	NM_013610	1.54	7.92E-04
Hmcn1	NM_001024720	1.54	2.07E-02
Pid1	NM_001003948	1.54	2.48E-02
Mgarp	NR_028121	1.53	3.39E-04
Abpe	NM_207262	1.53	5.31E-03
Tfpi2	NM_009364	1.53	3.02E-02
Mir568	NR_030576	1.53	2.14E-03
Pcsk5	NM_001190483	1.53	1.64E-02
Irx1	NM_010573	1.53	1.15E-02
Cyp2d22	NM_001163472	1.53	7.66E-03
B3gnt9-ps	ENSMUST00000136822	1.53	1.77E-02
Lmo1	NM_057173	1.53	1.95E-02
Xcl1	NM_008510	1.53	9.33E-03
Tek	NM_013690	1.53	3.08E-02
A830039N20Rik	BC038501	1.53	7.71E-03
Cyb5r1	ENSMUST00000027726	1.52	7.92E-05
Acad9	NM_172678	1.52	9.68E-04
Hmcn1	NM_001024720	1.52	1.58E-02
Gprin3	ENSMUST00000051065	1.52	2.57E-03
Hmcn1	NM_001024720	1.52	2.98E-03
Tnfaip2	NM_009396	1.52	1.46E-02
Gimap9	NM_174960	1.52	1.06E-03
Stard5	NM_023377	1.52	5.14E-03
Phgdh	NM_016966	1.52	1.83E-02
Ccl2	NM_011333	1.51	1.18E-02
Nhs1l	NM_173390	1.51	1.15E-02
Mir365-1	NR_029855	1.51	3.17E-03
Klhdc8a	NM_144810	1.51	5.62E-03
Mpp1	NM_008621	1.51	1.56E-03
Prickle1	NM_001033217	1.51	2.72E-04
Gm10791	NR_045889	1.51	1.86E-05
Dcbld1	NM_025705	1.51	2.78E-04
Tlr13	NM_205820	1.51	4.57E-02
Lamb1	NM_008482	1.51	3.73E-02
A830018L16Rik	NM_001160369	1.51	2.14E-02
Lmcd1	NM_144799	1.51	4.07E-02
Ugt2b1	ENSMUST00000031183	1.51	4.32E-02
Pglyrp4	NM_001165968	1.51	3.78E-02
Trem2	NM_031254	1.51	5.48E-03
Pls3	NM_145629	1.51	1.46E-04

Hmcn1	NM_001024720	1.51	2.90E-02
Capn6	NM_007603	1.51	3.90E-02
Mt2	NM_008630	1.51	3.14E-04
Rcn3	NM_026555	1.51	4.51E-02
Igfbp5	NM_010518	1.50	4.01E-02
Ahnak2	AK138503	1.50	6.94E-03
Eng	NM_001146350	1.50	4.71E-02
Csf2rb	NM_007780	1.50	1.12E-02
Eltf1	NM_133222	1.50	1.20E-02
Sirpb1b	NM_001173460	1.50	3.68E-02
C1rl	NM_181344	1.50	1.28E-03
Fbln5	NM_011812	1.50	1.50E-02
Alb	NM_009654	1.50	3.27E-02
Ghr	NM_010284	1.50	5.98E-04
Fam63b	NM_172772	-1.50	6.22E-03
Gda	NM_010266	-1.50	9.86E-03
Olfr143	NM_146806	-1.50	6.14E-03
Zfp459	NM_177811	-1.50	6.84E-04
Stard3	NM_021547	-1.50	2.52E-04
Gabre	NM_017369	-1.50	1.68E-04
4930572J05Rik	NM_198607	-1.50	8.09E-03
Lgals3bp	NM_011150	-1.50	5.56E-03
Gramd1b	ENSMUST00000165104	-1.50	2.86E-03
Hcn2	NM_008226	-1.50	2.47E-03
Atp6ap2	NM_027439	-1.51	1.49E-04
Scn2a1	NM_001099298	-1.51	2.31E-02
Pik3c2b	NM_001099276	-1.51	2.10E-05
Lpgat1	NM_001134829	-1.51	2.93E-02
Ldlr	NM_010700	-1.51	7.03E-03
Agfg2	ENSMUST00000031736	-1.51	9.25E-03
Zfp618	NM_028326	-1.51	6.75E-05
Scg5	NM_009162	-1.51	2.71E-02
Kcng3	NM_153512	-1.51	1.51E-02
Mir196a-1	NR_029721	-1.51	9.53E-03
Zfp826	BC086681	-1.51	3.22E-03
Pln	NM_001141927	-1.51	2.39E-02
Hoxa5	NM_010453	-1.51	1.45E-03
Tmtc2	NM_177368	-1.51	1.51E-04
Gm13154	NM_001014397	-1.52	8.28E-03
Chrd11	NM_001114385	-1.52	1.99E-02
Frk	NM_001159544	-1.52	9.42E-05
Ccdc109a	NM_001033259	-1.52	2.08E-06
Pclo	NM_011995	-1.52	4.21E-02

Kndc1	NM_177261	-1.52	4.16E-02
Pde2a	NM_001143848	-1.52	3.36E-02
Defb44-ps	NR_002879	-1.52	1.85E-02
2900055J20Rik	NR_045177	-1.52	3.03E-02
Gpx2	NM_030677	-1.52	5.09E-04
Wnk4	NM_175638	-1.52	7.76E-03
Foxp2	NM_053242	-1.52	1.28E-02
Sema3f	NM_011349	-1.52	2.16E-03
Pcbp3	NM_021568	-1.52	9.29E-03
Mcm6	NM_008567	-1.52	3.60E-02
Bex1	NM_009052	-1.53	1.38E-02
Lrp4	NM_172668	-1.53	2.47E-02
Prr16	ENSMUST00000097576	-1.53	1.48E-03
Sp5	NM_022435	-1.53	1.92E-02
Kctd14	NM_001012434	-1.53	2.50E-02
Khdrbs3	NM_010158	-1.53	9.16E-03
Hpn	NM_001110252	-1.53	4.51E-02
Fam57a	ENSMUST00000094014	-1.53	9.91E-04
2410018L13Rik	BC063063	-1.53	1.28E-02
Unc5b	NM_029770	-1.53	1.38E-02
Zfp57	ENSMUST00000174524	-1.53	1.43E-02
Gm13251	NM_001085522	-1.54	6.87E-04
Lpcat2	NM_173014	-1.54	4.18E-04
Idh2	NM_173011	-1.54	1.79E-03
Zfp961	NM_001164581	-1.54	2.75E-04
Prkcz	NM_008860	-1.54	8.61E-04
Hsd17b11	NM_053262	-1.54	8.55E-04
Sh3bgrl2	NM_172507	-1.54	2.27E-03
Slc17a9	NM_183161	-1.54	2.50E-02
Fabp6	ENSMUST00000020672	-1.54	8.19E-04
Aldh1a3	NM_053080	-1.54	4.00E-02
Mboat2	NM_026037	-1.54	2.03E-02
Abcd3	NM_008991	-1.54	1.93E-05
Lipo1	NM_001013770	-1.54	8.55E-03
Bcas1	NM_029815	-1.54	1.23E-02
9930005F22Rik	NM_001220499	-1.55	2.16E-05
Mbp	NM_010777	-1.55	1.96E-02
Gipc2	NM_016867	-1.55	3.47E-03
Kcnn2	NM_080465	-1.55	7.37E-03
Anxa3	NM_013470	-1.55	3.21E-05
Pdlim2	NM_145978	-1.55	9.16E-03
Glt25d1	NM_146211	-1.55	3.61E-06
Cnnm4	NM_033570	-1.55	6.19E-05

Pwwp2a	NM_027557	-1.55	3.77E-04
Olf890	NM_146481	-1.55	3.25E-02
Arrb1	NM_177231	-1.55	1.95E-04
Adamts13	NM_001190374	-1.55	7.41E-04
Hoxa2	NM_010451	-1.55	8.66E-04
Pla2g16	NM_139269	-1.55	1.86E-03
Tchh	NM_001163098	-1.56	2.63E-03
Efhd2	NM_025994	-1.56	7.93E-04
Adam23	NM_011780	-1.56	2.50E-02
Nell1	NM_001037906	-1.56	1.15E-02
Nalcn	NM_177393	-1.56	1.47E-03
Vav2	ENSMUST00000056176	-1.56	3.07E-04
Gpr165	NM_029536	-1.56	2.41E-02
Dgkg	NM_138650	-1.56	1.16E-02
Ermp1	NM_001081213	-1.56	2.81E-04
Gm10573	XM_987080	-1.56	7.25E-03
2410018L13Rik	BC063063	-1.56	2.67E-03
Pla2g1b	NM_011107	-1.56	1.49E-02
Atp13a3	NM_001128096	-1.57	6.31E-03
3830431G21Rik	NM_001177503	-1.57	3.82E-03
Cadm1	NM_207675	-1.57	8.12E-04
Mboat1	NM_153546	-1.57	1.08E-04
Nlgn1	NM_138666	-1.57	5.68E-03
Plekha6	NM_182930	-1.57	8.06E-04
Extl1	NM_019578	-1.57	6.73E-03
Gm1614	AK146021	-1.57	1.82E-04
4930588N13Rik	NM_029464	-1.57	2.62E-03
AA986860	NM_177604	-1.57	4.25E-03
Vps13d	ENSMUST00000020441	-1.57	1.04E-03
Hoxa6	ENSMUST00000062829	-1.57	2.94E-06
Zfp599	NM_181419	-1.57	3.04E-03
Ctnna2	NM_001109764	-1.57	3.80E-02
Hmgcs1	NM_145942	-1.58	2.91E-03
Acs11	NM_007981	-1.58	3.47E-03
Slc25a10	NM_013770	-1.58	1.86E-03
Amot	NM_153319	-1.58	5.13E-03
Zfp462	NM_172867	-1.58	1.75E-03
Lrg1	NM_029796	-1.58	2.19E-02
1700029I01Rik	NR_040355	-1.58	1.99E-03
Cdkn2c	NM_007671	-1.58	6.08E-04
Bhlhe40	NM_011498	-1.58	1.16E-03
Bco2	NM_133217	-1.58	9.50E-04
Fam171b	NM_175514	-1.58	1.51E-02

Lanc13	NM_173414	-1.58	2.17E-03
Paqr4	NM_023824	-1.58	5.24E-05
Snx31	NM_025712	-1.58	1.99E-03
Gal3st1	NM_016922	-1.58	6.66E-04
Vit	NM_028813	-1.59	1.09E-02
Eml3	NM_144872	-1.59	3.02E-04
Adcy5	ENSMUST00000114913	-1.59	4.64E-02
Eya2	ENSMUST00000063433	-1.59	1.12E-04
Kcnq5	NM_001160139	-1.59	6.93E-03
Lrrc8e	NM_028175	-1.59	7.94E-03
Wnt5a	NM_009524	-1.59	1.52E-02
Adamdec1	NM_021475	-1.59	7.16E-03
Cyp21a1	NM_009995	-1.59	1.66E-03
Baiap2l1	NM_025833	-1.59	3.16E-05
Klk1b4	NM_010915	-1.60	2.53E-02
D730001G18Rik	NR_027836	-1.60	4.87E-02
Solh	ENSMUST00000041641	-1.60	8.37E-04
Arhgef38	ENSMUST00000147041	-1.60	1.91E-03
Slc28a3	NM_022317	-1.60	6.80E-04
Samd9l	NM_010156	-1.60	1.68E-02
Myof	NM_001099634	-1.60	1.21E-05
Fgf13	NM_010200	-1.61	4.07E-02
Slc4a7	NM_001033270	-1.61	3.73E-05
Krt78	NM_212487	-1.61	2.05E-02
Nefh	NM_010904	-1.61	3.93E-02
Sgsm1	NM_172718	-1.61	3.61E-02
Ttyh3	NM_175274	-1.61	4.83E-04
Rap1gap	NM_001081155	-1.61	2.14E-02
Sdcbp2	NM_145535	-1.61	1.02E-05
Ptprn2	NM_011215	-1.61	1.89E-03
Zfp667	NM_001024928	-1.61	2.69E-02
Nr2f2	NM_009697	-1.61	7.18E-06
Il18	NM_008360	-1.61	1.39E-04
Per3	NM_011067	-1.62	4.63E-02
Ggh	NM_010281	-1.62	1.27E-03
Ggh	NM_010281	-1.62	1.27E-03
Cobl	NM_172496	-1.62	4.76E-03
Atrnl1	NM_181415	-1.62	4.59E-05
Rasal1	NM_013832	-1.62	9.11E-04
Gusb	ENSMUST00000026613	-1.62	3.46E-03
Pag1	NM_001195031	-1.62	2.77E-03
Prr15l	ENSMUST00000107636	-1.62	5.65E-04
Akap12	NM_031185	-1.62	3.57E-02

Slk	NM_009289	-1.62	3.28E-05
Fblim1	ENSMUST00000006381	-1.62	2.27E-03
Slc52a3	NM_001164819	-1.62	3.42E-02
Opn3	NM_010098	-1.63	9.66E-03
Foxc1	NM_008592	-1.63	8.37E-04
Myh14	NM_028021	-1.63	1.04E-02
Avpi1	NM_027106	-1.63	4.79E-05
Pmaip1	NM_021451	-1.63	9.45E-03
Slc9a4	NM_177084	-1.63	1.20E-02
Mcf2l	NM_178076	-1.64	6.35E-03
Sp110	NM_175397	-1.64	3.98E-04
Gcnt3	NM_028087	-1.64	4.94E-02
Fam63b	NM_172772	-1.64	1.56E-03
Sftpd	NM_009160	-1.64	1.52E-02
Tmem98	NM_029537	-1.65	1.17E-03
Sym	NM_201639	-1.65	2.16E-02
Capsl	NM_029341	-1.65	2.63E-02
Syt12	ENSMUST00000032846	-1.65	3.36E-03
Nt5c2	NR_028353	-1.65	1.98E-05
Ap1s3	NM_183027	-1.65	4.87E-04
Rad5111	NM_009014	-1.65	5.15E-04
Klf3	NM_008453	-1.65	7.40E-05
Fam124a	NM_001243857	-1.66	6.53E-03
Mfsd4	NM_001114662	-1.66	3.92E-03
Myoc	NM_010865	-1.66	4.23E-03
Kcna2	NM_008417	-1.66	9.76E-03
Clic6	NM_172469	-1.66	5.66E-03
Slc34a2	NM_011402	-1.66	9.41E-03
Cdk6	ENSMUST00000042410	-1.66	4.00E-07
Adap1	NM_172723	-1.66	4.45E-05
Sulf2	ENSMUST00000109249	-1.66	5.13E-04
Rnf152	NM_178779	-1.66	4.24E-04
Itih5	NM_172471	-1.66	3.80E-02
Cntn1	NM_007727	-1.66	9.75E-03
Gsdmd	NM_026960	-1.67	9.60E-06
Slc35f1	NM_178675	-1.67	2.24E-02
Sprr2b	NM_011469	-1.67	4.44E-05
Idh1	NM_010497	-1.67	6.56E-05
C530008M17Rik	ENSMUST00000125922	-1.67	1.57E-02
Eepd1	NM_026189	-1.67	6.19E-04
Rassf7	NM_025886	-1.67	4.60E-05
Fam13a	NM_153574	-1.68	2.86E-04
Klf10	NM_013692	-1.68	4.91E-05

Chml	NM_021350	-1.68	3.59E-04
Stxbp5l	ENSMUST00000114787	-1.68	2.60E-02
Clic3	NM_027085	-1.68	5.79E-03
Npy2r	NM_008731	-1.68	1.69E-02
D130040H23Rik	NM_172491	-1.68	2.35E-03
Olf894	NM_146868	-1.68	1.56E-04
Gm15401	NR_040421	-1.68	3.04E-02
Pof1b	NM_181579	-1.68	9.67E-04
Noxo1	NM_027988	-1.68	1.04E-03
Fxyd7	NM_022007	-1.69	4.81E-02
Cant1	ENSMUST00000017620	-1.69	5.82E-05
Plp1	ENSMUST00000033800	-1.69	3.76E-02
Cdh2	NM_007664	-1.69	1.59E-02
Tspan15	NM_197996	-1.69	2.34E-02
Atp4a	NM_018731	-1.69	3.77E-02
Foxq1	NM_008239	-1.69	2.34E-04
6330403A02Rik	NM_001081227	-1.69	1.35E-03
Cyp2b9	NM_010000	-1.70	1.29E-05
Aqp11	NM_175105	-1.70	6.71E-03
Hoxa7	NM_010455	-1.70	6.56E-06
Rab3b	NM_023537	-1.70	6.01E-04
Cfi	NM_007686	-1.70	3.22E-03
Sval3	NM_001003952	-1.70	1.83E-02
Nans	NM_053179	-1.70	2.89E-04
Efnb2	NM_010111	-1.70	2.56E-07
Chst8	NM_175140	-1.70	3.95E-04
4833442J19Rik	NM_001252094	-1.70	2.00E-05
2010300C02Rik	NM_028096	-1.70	1.04E-04
Zbtb7c	NM_145356	-1.71	2.67E-02
Tmod2	NM_016711	-1.71	2.84E-02
Bcl2	NM_009741	-1.71	1.22E-03
Spr2a1	NM_011468	-1.71	4.06E-04
9130404H23Rik	NM_028998	-1.71	9.30E-04
Trim6	NM_001013616	-1.71	2.13E-03
Socs6	NM_018821	-1.72	5.16E-05
Mir200a	NR_029723	-1.72	2.35E-04
Anxa13	NM_027211	-1.72	1.08E-03
Ppm1l	NM_178726	-1.72	7.54E-05
Ppl	NM_008909	-1.72	1.69E-03
Fez1	ENSMUST00000034630	-1.72	1.76E-03
Slco1a6	NM_023718	-1.73	1.75E-03
Trim36	NM_178872	-1.73	2.34E-02
Hoxa3	NM_010452	-1.73	1.62E-04

Plac8	NM_139198	-1.73	2.30E-02
Naip2	NM_010872	-1.73	5.70E-05
Ppfibp2	NM_008905	-1.73	2.00E-04
Zfp617	NM_133358	-1.74	1.17E-04
Ndn	NM_010882	-1.74	1.69E-02
Klk1b24	NM_010643	-1.74	1.89E-02
Xdh	NM_011723	-1.74	1.05E-02
5730559C18Rik	NM_028872	-1.74	2.73E-04
Eml6	NM_146016	-1.74	8.98E-03
Mgat4a	ENSMUST00000042161	-1.74	4.21E-05
Gm7285	XR_142151	-1.75	7.72E-04
G930009F23Rik	AK145170	-1.75	7.75E-03
Slco4c1	NM_172658	-1.75	8.08E-03
Map3k5	NM_008580	-1.75	4.70E-05
Atp6v1b1	NM_134157	-1.75	2.06E-02
Chrm2	NM_203491	-1.76	4.47E-03
Tjp3	NM_013769	-1.76	1.94E-04
Dnajc17	NM_139139	-1.76	1.72E-04
Fgf14	ENSMUST00000026631	-1.76	6.91E-04
Slc41a3	NM_027868	-1.76	7.16E-03
Dmrt2	NM_145831	-1.77	1.67E-02
Asb11	NM_026853	-1.77	1.64E-02
Cdo1	NM_033037	-1.77	3.82E-02
Degs2	NM_027299	-1.77	1.95E-02
Gm13154	NM_001014397	-1.77	1.46E-02
Ogn	NM_008760	-1.78	2.14E-03
Smoc2	NM_022315	-1.78	1.50E-03
Crispld1	ENSMUST00000095075	-1.78	7.68E-03
Peg10	NM_130877	-1.78	1.64E-02
Slc44a4	NM_023557	-1.78	1.07E-05
Crym	NM_016669	-1.78	4.01E-02
Ly6g6e	NM_027366	-1.78	7.52E-03
Tfcp2l1	NM_023755	-1.78	2.44E-04
Tnxb	NM_031176	-1.78	4.08E-02
Lysmd2	NM_027309	-1.79	1.21E-04
Syt13	NM_031395	-1.80	3.40E-03
Sh3tc1	NM_194344	-1.80	4.23E-03
Sh3pxd2a	NM_008018	-1.80	2.60E-05
Gm13139	NM_001083918	-1.80	4.63E-03
Tnfaip8	ENSMUST00000126883	-1.80	4.59E-04
Ppp2r2b	NM_028392	-1.80	2.06E-02
Ick	NM_019987	-1.81	1.86E-05
Ascl1	NM_008553	-1.82	2.83E-02

Wdr76	NM_030234	-1.82	2.74E-04
Rdh16	NM_009040	-1.82	1.30E-04
9930012K11Rik	NM_001004155	-1.83	9.68E-04
2200002D01Rik	ENSMUST00000032808	-1.83	1.19E-06
Apol7a	NM_029419	-1.83	5.12E-03
Ttll7	NM_027594	-1.83	5.28E-03
D14Ert449e	NM_025311	-1.84	9.36E-04
Kcnh2	NM_013569	-1.84	1.04E-02
Efemp1	NM_146015	-1.85	2.64E-03
Meis2	NM_001136072	-1.85	2.20E-03
Zfp467	NM_020589	-1.85	3.70E-03
S100a6	NM_011313	-1.85	4.17E-03
Smpd3	NM_021491	-1.85	5.71E-04
Has3	NM_008217	-1.85	3.73E-03
D14Ert449e	NM_025311	-1.86	1.06E-03
Cntn3	ENSMUST00000032159	-1.86	2.45E-03
Acot11	NM_025590	-1.86	2.42E-04
Socs6	NM_018821	-1.86	9.51E-04
Arhgef4	NM_183019	-1.87	1.63E-04
Epha4	NM_007936	-1.87	2.60E-04
Syt9	NM_021889	-1.87	8.74E-03
Agr2	NM_011783	-1.87	8.73E-04
Wnt4	NM_009523	-1.87	2.84E-04
Kcne4	NM_021342	-1.88	1.88E-03
D14Ert449e	NM_025311	-1.88	1.05E-03
Spr2a2	ENSMUST00000090872	-1.88	3.64E-04
Spr2a2	ENSMUST00000090872	-1.88	3.64E-04
Faim2	NM_028224	-1.89	3.87E-02
Retnla	NM_020509	-1.89	4.58E-02
Sorbs1	NM_178362	-1.89	1.87E-02
Gata2	NM_008090	-1.90	9.91E-03
Arhgef4	ENSMUST00000159747	-1.90	1.86E-04
Zfp872	NM_001033813	-1.90	1.77E-03
Mall	NM_145532	-1.90	6.04E-03
Efh1	NM_028889	-1.90	1.82E-02
F3	NM_010171	-1.90	2.07E-04
Itpr2	NM_019923	-1.91	7.42E-07
Hsd17b14	NM_025330	-1.91	1.09E-03
Zfp185	NM_009549	-1.92	4.23E-04
Dcxr	NM_026428	-1.92	2.67E-04
Syp	NM_009305	-1.92	4.82E-02
4933436C20Rik	NR_033641	-1.92	1.44E-03
Capn5	NM_007602	-1.93	1.21E-06

Acacb	NM_133904	-1.93	2.95E-05
Ank2	ENSMUST00000166157	-1.93	3.87E-02
Mir31	NR_029747	-1.93	6.12E-03
Abca8a	NM_153145	-1.93	5.90E-05
Lynx1	NM_011838	-1.94	1.10E-04
Plcx3	NM_177355	-1.94	5.76E-03
Ttll7	NM_027594	-1.94	5.78E-04
Hmgcs2	NM_008256	-1.95	2.80E-03
Camk1d	NM_177343	-1.95	2.46E-02
Aldh3b2	NM_001177438	-1.95	9.36E-04
1700001C19Rik	NM_029296	-1.95	1.05E-04
Pcp411	NM_025557	-1.95	4.51E-02
Qsox1	NM_001024945	-1.95	5.05E-04
Fzd3	NM_021458	-1.96	9.19E-04
Kif19a	NM_001102615	-1.97	2.20E-04
Golm1	NM_027307	-1.97	4.98E-04
Sp110	NM_175397	-1.97	1.86E-04
Sp110	NM_175397	-1.97	1.86E-04
Gm11545	NM_001105561	-1.97	2.16E-04
Mst1r	NM_009074	-1.97	1.82E-03
Inmt	NM_009349	-1.98	2.17E-04
Dgkb	NM_178681	-1.98	3.21E-02
Lepr	NM_001122899	-1.98	2.40E-04
Rasgef1a	NM_027526	-1.98	1.62E-04
Glde	NM_138595	-1.99	2.73E-04
O3far1	NM_181748	-1.99	2.53E-03
Aldh3b2	NM_001177438	-1.99	6.87E-04
2510049J12Rik	NM_001101431	-2.00	6.26E-04
Gm1965	BC147526	-2.00	1.81E-02
Gsn	NM_001206367	-2.00	2.54E-05
Cpxm2	NM_018867	-2.00	7.37E-03
Mir429	NR_029958	-2.00	2.20E-04
Omp	NM_011010	-2.00	3.36E-04
S100a14	NM_001163525	-2.01	3.92E-03
Galnt7	NM_144731	-2.01	1.03E-02
Tst	NM_009437	-2.01	3.80E-04
Casp1	ENSMUST00000027015	-2.01	4.30E-03
Creb3l4	NM_030080	-2.02	7.46E-03
Cd14	NM_009841	-2.02	4.08E-05
A530032D15Rik	NM_213615	-2.02	2.85E-03
Aim11	NM_001162970	-2.02	2.95E-05
Naip6	NM_010871	-2.02	6.57E-04
Wnt4	NM_009523	-2.03	3.03E-04

Upk2	NM_009476	-2.03	7.72E-04
Homer2	NM_011983	-2.03	8.59E-04
Abca8b	NM_013851	-2.03	4.17E-04
Spire2	NM_172287	-2.04	2.51E-04
3632451O06Rik	BC023359	-2.04	6.87E-03
1700055N04Rik	NM_028545	-2.05	2.57E-03
AI427809	NR_033139	-2.06	1.37E-02
Nt5dc3	NM_175331	-2.06	1.27E-06
Syt16	NM_172804	-2.06	4.73E-06
Fam107a	NM_183187	-2.07	1.23E-04
Ppp1r9a	NM_181595	-2.07	1.33E-06
Tnfaip8	NM_134131	-2.07	1.50E-04
Gmds	NM_146041	-2.07	4.93E-06
Cdc42ep5	NM_021454	-2.08	3.97E-05
Spock2	ENSMUST00000121820	-2.09	1.85E-03
Tmprss2	NM_015775	-2.09	3.94E-05
Tacstd2	NM_020047	-2.09	3.32E-05
Ppargc1b	NM_133249	-2.09	4.19E-05
Gabrp	NM_146017	-2.10	1.08E-02
Col25a1	NM_029838	-2.10	1.53E-03
Rnf150	NM_177378	-2.11	1.90E-04
Klf5	NM_009769	-2.11	5.63E-04
Tnfsf10	NM_009425	-2.12	1.33E-05
Prodh	NM_011172	-2.12	5.92E-04
Sp110	NM_175397	-2.13	2.40E-04
Tox3	ENSMUST00000109621	-2.14	3.43E-03
Clip4	NM_030179	-2.14	5.27E-04
1700016M24Rik	BC111897	-2.14	9.13E-05
Gpr83	NM_010287	-2.14	9.11E-05
Sema3c	NM_013657	-2.15	2.53E-04
Homer2	NM_011983	-2.15	6.13E-03
Slc37a1	NM_153062	-2.15	4.86E-05
Mal	NM_010762	-2.15	4.95E-05
Kctd12b	NM_175429	-2.15	1.67E-03
Psap11	NM_175249	-2.16	3.48E-03
Igsf9b	NM_001129787	-2.16	1.20E-04
Gpa33	ENSMUST00000060833	-2.16	3.37E-03
Por	NM_008898	-2.16	1.02E-04
Sowaha	NM_183173	-2.16	3.99E-04
Arhgef4	ENSMUST00000159747	-2.17	9.85E-04
5730507C01Rik	NM_001201330	-2.18	1.82E-03
Ttc22	NM_177667	-2.18	1.45E-04
Nrxn1	NM_020252	-2.19	1.86E-03

Lrrc26	NM_146117	-2.19	3.09E-05
Spats2l	NM_144882	-2.19	1.16E-03
Gm16432	NM_001034899	-2.19	1.25E-04
Ano9	NM_178381	-2.19	3.45E-04
Rapgef1l	NM_001080925	-2.19	4.22E-04
Trim31	NM_146077	-2.19	2.99E-03
Adra2a	NM_007417	-2.20	9.64E-03
A530040E14Rik	BC100303	-2.21	7.00E-03
A530040E14Rik	BC100303	-2.21	7.00E-03
Dhrs9	NM_175512	-2.21	5.45E-03
Klk1b2l	NM_010642	-2.23	1.61E-02
Rbfox3	NM_001039167	-2.24	1.35E-02
Reep6	NM_139292	-2.26	4.71E-08
Napepld	NM_178728	-2.26	9.23E-04
Galnt4	NM_015737	-2.29	3.84E-05
Naip5	NM_010870	-2.29	1.93E-04
Sestd1	NM_175465	-2.30	5.89E-05
Sox2	NM_011443	-2.31	1.72E-06
A530040E14Rik	BC100303	-2.32	5.14E-03
A530040E14Rik	BC100303	-2.32	5.14E-03
Xkr4	NM_001011874	-2.32	1.10E-04
Pparg	NM_001127330	-2.32	7.81E-05
Cmbl	NM_181588	-2.32	1.18E-04
Tspan2	ENSMUST00000029451	-2.32	9.01E-04
Hnf4g	NM_013920	-2.34	4.01E-04
9030619P08Rik	NM_001039720	-2.35	2.22E-02
Paqr6	NM_198410	-2.35	3.36E-05
Fut8	NM_001252614	-2.35	1.32E-05
Olf893	NM_146336	-2.36	5.51E-03
Ugt8a	NM_011674	-2.37	5.12E-03
Hsh2d	ENSMUST00000165324	-2.38	6.33E-04
Agt	NM_007428	-2.38	2.03E-02
Tnip3	NM_001001495	-2.38	2.12E-03
Tmie	NM_146260	-2.39	4.39E-05
Ret	NM_001080780	-2.39	3.89E-02
Rab6b	NM_173781	-2.40	5.20E-03
Arhgef4	ENSMUST00000159747	-2.40	1.36E-04
Bace2	NM_019517	-2.40	1.40E-05
C130026I21Rik	NM_175219	-2.40	4.04E-04
Efcab4b	NM_001033464	-2.41	1.06E-03
4930452B06Rik	NM_028934	-2.42	5.26E-05
Adam28	NM_010082	-2.42	4.73E-05
Tmem22	NM_001101483	-2.42	8.39E-04

Plac9	NM_207229	-2.42	7.67E-05
Plac9	NM_207229	-2.42	7.67E-05
B3galt5	NM_033149	-2.43	1.42E-02
BC005685	BC005685	-2.43	3.40E-03
Plac9	NM_207229	-2.45	8.76E-05
Sh3gl2	NM_019535	-2.46	3.08E-03
Slc39a4	NM_028064	-2.46	2.64E-04
Sh2d4a	NM_028182	-2.46	6.10E-06
L1cam	NM_008478	-2.47	3.07E-03
Hif3a	NM_016868	-2.48	1.47E-03
Sh3rf2	NM_001146299	-2.49	5.60E-05
Npnt	NM_033525	-2.50	6.27E-04
Abcg8	NM_026180	-2.56	3.91E-03
Upk1b	NM_178924	-2.58	1.13E-03
Prss27	NM_175440	-2.59	3.81E-03
BC005685	BC005685	-2.59	3.10E-03
Als2cl	NM_001146059	-2.60	8.95E-05
Krt23	NM_033373	-2.60	2.40E-03
Tprn	NM_175286	-2.62	1.49E-05
BC005685	BC005685	-2.62	3.26E-03
Pde8b	NM_172263	-2.62	1.78E-04
Tbx1	NM_011532	-2.63	5.85E-04
Reg3g	NM_011260	-2.63	5.78E-05
Chga	NM_007693	-2.64	2.41E-04
Lass3	NM_001164201	-2.64	2.94E-04
BC030870	NR_033217	-2.65	2.06E-05
Gprc5a	NM_181444	-2.67	7.23E-05
Fa2h	NM_178086	-2.68	5.80E-04
Sult1e1	NM_023135	-2.70	1.02E-02
Tmprss4	NM_145403	-2.72	1.67E-04
Rab27a	NM_023635	-2.74	3.06E-05
Cyp2f2	NM_007817	-2.74	2.35E-04
BC005685	BC005685	-2.75	3.23E-03
Gnao1	NM_010308	-2.76	1.02E-03
Ces1d	NM_053200	-2.77	2.99E-02
1110017F19Rik	NM_001162998	-2.80	2.80E-04
Cln2	NM_009900	-2.82	2.78E-06
Slc12a8	NM_134251	-2.83	1.82E-02
Cdh19	NM_001081386	-2.84	1.30E-02
Elfn1	NM_175522	-2.86	4.48E-04
Lgi1	NM_020278	-2.87	3.50E-03
Gsto1	NM_010362	-2.89	4.61E-07
Snhg11	NM_175692	-2.89	3.21E-03

Gsta3	NM_001077353	-2.89	4.33E-03
Fam40b	NM_177204	-2.90	3.78E-06
Fam83e	NM_001033170	-2.92	1.14E-04
Styk1	NM_172891	-2.94	3.11E-05
Hpse	NM_152803	-2.95	2.34E-04
Chic1	NM_009767	-2.97	4.36E-05
Mcoln2	NM_026656	-2.99	5.98E-06
B3gnt3	NM_028189	-3.00	5.25E-05
Duxbl	NM_183389	-3.00	3.26E-05
Gm13235	AB010326	-3.00	3.85E-03
Gm13235	AB010326	-3.00	3.85E-03
LOC641050	M11024	-3.06	2.61E-03
Serpinb11	NM_025867	-3.06	4.66E-05
Susd4	NM_144796	-3.09	3.24E-04
2310007B03Rik	NM_172411	-3.09	4.29E-04
LOC641050	M11024	-3.10	3.46E-03
Gm1965	ENSMUST00000162900	-3.10	1.11E-02
Sult1c2	NM_026935	-3.12	3.91E-03
Ces2g	NM_197999	-3.13	2.81E-07
Tmc5	NM_001105252	-3.14	1.84E-04
Ccnjl	NM_001045530	-3.15	4.34E-03
LOC641050	M11024	-3.17	3.51E-03
Mecom	ENSMUST00000108271	-3.18	2.71E-05
Fgfr3	NM_008010	-3.22	3.66E-04
Chic1	NM_009767	-3.23	6.73E-05
Elf3	NM_001163131	-3.24	1.97E-06
Arhgap40	NM_001145015	-3.24	4.52E-06
Kcnh6	NM_001037712	-3.26	1.89E-02
Mecom	NM_021442	-3.26	2.46E-05
LOC641050	M11024	-3.30	2.44E-03
Fbp2	NM_007994	-3.31	1.28E-05
Atoh1	NM_007500	-3.33	3.09E-02
Klk1	NM_010639	-3.34	6.51E-03
Duxbl	NM_183389	-3.35	1.01E-05
Duxbl	NM_183389	-3.35	1.01E-05
Dgat2	NM_026384	-3.37	1.46E-04
Fer1l4	NM_001136556	-3.39	8.02E-06
Cnksr2	NM_177751	-3.40	1.08E-04
Pcp4	ENSMUST00000061739	-3.40	1.13E-02
Wdr49	XM_003086309	-3.41	2.99E-06
Mgat3	NM_010795	-3.42	7.33E-05
Muc4	NM_080457	-3.43	3.30E-05
Acsm3	NM_016870	-3.46	1.50E-03

Kcnq1	NM_008434	-3.46	2.32E-04
Gm6020	AB010317	-3.48	4.24E-04
Ripply3	NM_133229	-3.48	2.50E-04
Ccdc129	NM_001081665	-3.49	1.89E-03
Engase	NM_172573	-3.49	1.40E-05
Ms4a8a	NM_022430	-3.49	1.14E-02
Gsdmc	NM_031378	-3.50	7.35E-06
Ttll6	NM_172799	-3.52	1.60E-04
Insrr	NM_011832	-3.52	1.92E-02
Hgfac	NM_019447	-3.53	1.28E-03
Naip1	NM_008670	-3.53	9.11E-05
Syt8	NM_018802	-3.53	2.32E-06
Gsta4	NM_010357	-3.59	3.99E-06
Gpc3	NM_016697	-3.60	4.11E-03
Fam3b	NM_020622	-3.68	2.12E-04
Pllp	NM_026385	-3.68	7.53E-06
Csprs	NM_033616	-3.73	1.65E-04
Ppp1r1b	NM_144828	-3.79	5.10E-07
2210407C18Rik	NM_144544	-3.85	3.82E-03
Tc2n	ENSMUST00000110047	-3.88	1.84E-06
Chad	NM_007689	-3.89	4.01E-05
Muc5b	NM_028801	-3.93	1.54E-02
Tnfrsf19	NM_013869	-3.95	1.02E-06
Fut9	ENSMUST00000084770	-3.99	2.66E-04
Cbr2	NM_007621	-4.01	1.02E-04
Gm7609	NM_001081746	-4.03	2.13E-04
Scnn1a	NM_011324	-4.05	1.67E-04
Krt7	NM_033073	-4.06	9.13E-06
Atp2a3	NM_016745	-4.10	8.47E-05
Gm7609	NM_001081746	-4.21	1.83E-04
Csprs	NM_033616	-4.24	1.59E-04
Lgals12	NM_019516	-4.34	1.79E-05
Msln	NM_018857	-4.45	6.53E-05
Capn13	NM_001033444	-4.51	2.67E-05
Ctse	NM_007799	-4.52	2.44E-04
Ly6d	NM_010742	-4.54	8.95E-04
Muc13	NM_010739	-4.54	1.49E-03
9530053A07Rik	NM_001164655	-4.56	1.89E-02
BC025446	BC025446	-4.79	1.28E-05
Ckmt1	ENSMUST00000078222	-4.89	1.36E-06
Muc1	NM_013605	-4.90	6.57E-04
Ptges	NM_022415	-5.02	1.34E-06
Fer114	NM_001136556	-5.17	4.12E-05

Abcg5	ENSMUST00000066175	-5.19	7.16E-04
Ly6g	XM_001475753	-5.39	1.19E-02
Cd200r2	NM_206535	-5.51	7.82E-08
Best2	NR_052011	-5.65	4.28E-03
Hepacam2	NM_178899	-5.68	1.12E-03

2.93E-05

