Supplementary Table 1: primers

gene	target	species	forward	reverse
Prox1	DNA	mouse	CTC TGT GGA AAG GAC TCC GAA TC	ACA CTA AAC AAG CAA ATG GAA ATG C
MLR10Cre	DNA	mouse	CCT GTT TTG CAC GTT CAC CG	ATG CTT CTG TCC GTT TGC CG
Cdkn1b	mRNA	mouse	GCC AGA CGT AAA CAG CTC CGA ATT A	AGG CAG ATG GTT TAA GAG TGC CT
Cdkn1C	mRNA	mouse	CAA GCG AAC AGG CAG GCA AGC	TCG AAG GCT GGC TGA TTG GTG
Maf	mRNA	mouse	GTG GTG GTG ATG GCT CTT TT	GTT ACG GGG GAA TTC AGG TT
Cryaa	mRNA	mouse	GAG ATT CAC GGC AAA CAC AA	ACA TTG GAA GGC AGA CGG TA
Cryab	mRNA	mouse	ACT CAA AGT CAA GGT TCT GGG	GGG ATG AAG TGA TGG TGA GAG
Cryba1	mRNA	mouse	TGG AGT GTG GCG CCT GGA TT	CAT TGC TCC CGC TCC AGG CAT
Cryba3/a1	mRNA	mouse	CCT GGA GCG GGA GCA ATG CC	TCA CAG ATT CCC ACT GGC GTT CC
Crybb2	mRNA	mouse	GTG CAG AGC GGC ACG TGG GT	TGT CAC GGA TGC GAC GCA CA
Crygc	mRNA	mouse	CAT CCC CCA TGC AGG TTC	AGC CCG CCT TAG CAT CTA CA
Fgfr1	mRNA	mouse	AGC CCC TCT GGC AGC GAT ACC	AGG GAG CTA CAG GCC TAC GGT T
Fgfr2	mRNA	mouse	GGG GGC GCT TCA TCT GCC TG	CGG TGC TCC TTC TGG TTC TAA AGT G
Fgfr3	mRNA	mouse	CAG TGT GCG TGT AAC AGA TGC TCC A	TCG CTC CGG GCG AGT CCA AT
Lctl	mRNA	mouse	GCA CTG GCC TAT ATG TGG CT	TAC TAG GCC GTG CTG TTT GC
Mafb	mRNA	mouse	GCC TCT TAG ACT TGG GCA GA	CCT TCC AGC TTG GAG AA AG
Mip	mRNA	mouse	CGT GCT CTG CAT CTT TGC TA	ACC CTC CCC ACA GTC TCT TT
Pax6	mRNA	mouse	GCA CAT GCA AAC ACA CAT GA	ACT TGG ACG GGA ACT GAC AC
Prox1	mRNA	mouse	AGT AAG ACA TCA CCG CGT GCG C	GCT GGG CAC AGC TCA GAA ATC CC
Sox1	mRNA	mouse	GGC CAA GCG GCT GCG CGC GCT	GGC CAG CTG CGC CTC CTG CAT
Sox2	mRNA	mouse	GGC AGC TAC AGC ATG ATG CAG GAG C	CTG GTC ATG GAG TTG TAC TGC AGG
Crybb1	mRNA	mouse	CAG GGC CTG ATG GCA AGG GAA	CCT GCT CGA AGA CGA TCA GCC
Cdh1	mRNA	mouse	GCACTCTTCTCCTGGTCCTG	TATGAGGCTGTGGGTTCCCTC
Fgfrl1	mRNA	mouse	TCT TCA GGC TTC AGG TTC TTC AAG C	AGG AGG ACC CAG CCA GC
18S rDNA -0.15 Kb	RNA	mouse	QUIAGEN PPM57735E-200	
Crybb1	DNA	chicken	TCT GTT GTG CCG CTG GAT A	CCA GTC ATC ACA TCC TGC AA
-.05 Kb Spam1	DNA	chicken	AGC TGC ACT CCA GTC CTT TC	GTA GCC TCT GGC ATG GTG TT
-2 Kb Lctl	DNA	chicken	AGG AAG ATG TCT CAC CCC TGA	TCC CTC CTG CAA TAG GTG GTA
-0.4 Kb Lctl	DNA	chicken	CCC AGT GGG GGA GCA ATA AA	TGT ATC GAA GTG ACA TCA GCG
-0.05 Kb Lctl	DNA	chicken	ATT CAC AGG CTG GAA ACT CC	TGT ACA ATG CGG GAG AAG TGA
+5 Kb Lctl	DNA	chicken	AGC CTG GCT TGC ATG TGT AT	GGA GTG TTC AGA AGT GTG GGA
-2 Kb Fgfr3	DNA	chicken	GAG AGG CTC AGA CAC CGA AC	AGT CTC CTG CTG AGT GAC CA
-0.14 Kb Fgfr3	DNA	chicken	TCC CAT CCC CGT ATT CAG GA	ATG TGT CGT GTC TGA GCC
+5 Kb Fgfr3	DNA	chicken	ACT GAC TCC ATG CTC TCC CT	GCA GGC AGC AAA ACT TCC AA
-2 Kb Fgfrl1	DNA	chicken	TCT GGA TGC CCA AAG ATG GAG	TGC CTC CTG TAG ACT TTC CCA
-0.038 Kb Fgfrl1	DNA	chicken	AGC TCA TCT CAG GAA ACG GC	CAT AGG CTG CGT GTC CAT CT
-0.15 Kb Fgfrl1	DNA	chicken	TGC CCG TGG CGG TTG	AGC TCC AAA CTT CGC TCC AA
+5 Kb Fgfrl1	DNA	chicken	TTC TCT CTG CAC CAC TTG GC	TAG TCC CAA CAA CAC GTT CCC
Prox1	mRNA	chicken	AGA TGG AGA AGT ATG CGC GG	CTG GAA CCT CAA AGT CAT TCG C
Fgfr1	mRNA	chicken	GGG GTA CAA GGT CCG CTA TG	GTG TGG TTG ATG CTC CCG TA
Fgfr2	mRNA	chicken	TCT GCC AGC TCC TGA AAA GG	TTC TTC ATG CGG CAC AGG AT
Fgfr3	mRNA	chicken	GGA AAC CCA ACT CCC ACC AT	GCT GGT GTC GCA ACT TGA TG
Fgfrl1	mRNA	chicken	CAG TCC TGC CAG ATC CCA AG	GCA AAG CCA CAG GAG GAT TG
Lctl	mRNA	chicken	TCA CAC TCT GCA TAC TCA CCA G	ACA GCT GGC TTA CTG TAT TGT
18s	mRNA	chicken	TGT GCC GCT AGA GGT GAA ATT	TGG CAA ATG CTT TCG CTT T

Supplementary Table 2: immunofluorescence and immunohistochemistry procedures

Gene Symbol	Antibody	Sample Prep	Fixation	Blocking	Primary	secondary	final wash
Prox1	from Duncan MK et al. 2002	Frozen tissue was sectioned (16uM) and stored at -80C	immersion in 1:1 acetone/methanol at -20C for 15 minutes, then slides were air dried	Slides were immersed in 1% Bovine Serum Albumin (BSA) in Phosphate buffered saline (PBS) for 1 hour at room temperature (RT).	Primary antibody was diluted 1:500 in blocking buffer, and applied to tissue for 1 hour at RT in a humid slide chamber. Slides were then washed 3 times for 5 minutes in PBS.	Secondary Alexafluor 568 conjugated anti-rabbit antibody was diluted 1:200 in blocking buffer with 1:2000 Draq5, and applied to tissue for 1 hour at RT in a humid slide chamber.	Slides were washed 3 times for ten minutes with PBS then covered with mounting media, coverslipped and sealed, slides were stored at -20C until imaged.
cMaf	Santa Cruz: sc-7866	Frozen tissue was sectioned (16uM) and stored at -80C	immersion in 1:1 acetone/methanol at -20C for 15 minutes, then slides were air dried	Slides were immersed in 1% Bovine Serum Albumin (BSA) in Phosphate buffered saline (PBS) for 1 hour at room temperature (RT).	Primary antibody was diluted 1:100 in blocking buffer, and applied to tissue for 1 hour at RT in a humid slide chamber. Slides were then washed 3 times for 5 minutes in PBS.	Secondary Alexafluor 568 conjugated anti-rabbit antibody was diluted 1:200 in blocking buffer with 1:2000 Draq5, and applied to tissue for 1 hour at RT in a humid slide chamber.	Slides were washed 3 times for ten minutes with PBS then covered with mounting media, coverslipped and sealed, slides were stored at -20C until imaged.
Pax6	Santa Cruz: sc-53106	Frozen tissue was sectioned (16uM) and stored at -80C	immersion in 4% paraformaldehyde (pfa) in PBS for 20 min @ RT, then slides were washed in tris buffered saline (TBS) for 5 minutes.	Samples were covered with 5% normal goat serum in TBS supplemented with .3% Triton x100	Primary antibody was diluted 1:200 in blocking buffer, and applied to tissue overnight in a humid slide chamber at 4C. Slides were then washed 3 times for 10 minutes in TBS.	Secondary Alexafluor 568 conjugated anti-rabbit antibody was diluted 1:200 in blocking buffer with 1:2000 Draq5, and applied to tissue for 1 hour at RT in a humid slide chamber.	Slides were washed 3 times for ten minutes with TBS then covered with mounting media, coverslipped and sealed, slides were stored at -20C until imaged.
ECad	Cell Signaling : 4065	Frozen tissue was sectioned (16uM) and stored at -80C	immersion in 4% paraformaldehyde (pfa) in PBS for 20 min @ RT, then slides were washed in tris buffered saline (TBS) for 5 minutes.	Samples were covered with 5% normal goat serum in TBS supplemented with .3% Triton x100	Primary antibody was diluted 1:100 in blocking buffer, and applied to tissue overnight in a humid slide chamber at 4C. Slides were then washed 3 times for 10 minutes in TBS.	Secondary Alexafluor 568 conjugated anti-rabbit antibody was diluted 1:200 in blocking buffer with 1:2000 Draq5, and applied to tissue for 1 hour at RT in a humid slide chamber.	Slides were washed 3 times for ten minutes with TBS then covered with mounting media, coverslipped and sealed, slides were stored at -20C until imaged.
Cdnk1b (p27[Kip1])	Santa Cruz: sc-528	Frozen tissue was sectioned (16uM) and stored at -80C	immersion in 4% paraformaldehyde (pfa) in PBS for 20 min @ RT, then slides were washed in tris buffered saline (TBS) for 5 minutes.	Samples were covered with 5% normal goat serum in TBS supplemented with .3% Triton x100	Primary antibody was diluted 1:100 in blocking buffer, and applied to tissue overnight in a humid slide chamber at 4C. Slides were then washed 3 times for 10 minutes in TBS.	Secondary Alexafluor 568 conjugated anti-rabbit antibody was diluted 1:200 in blocking buffer with 1:2000 Draq5, and applied to tissue for 1 hour at RT in a humid slide chamber.	Slides were washed 3 times for ten minutes with TBS then covered with mounting media, coverslipped and sealed, slides were stored at -20C until imaged.
Mip (Aqp0)	Millipore : AB3071	Frozen tissue was sectioned (16uM) and stored at -80C	immersion in 1:1 acetone/methanol at -20C for 15 minutes, then slides were air dried	Slides were immersed in 1% Bovine Serum Albumin (BSA) in Phosphate buffered saline (PBS) for 1 hour at room temperature (RT).	Primary antibody was diluted 1:100 in blocking buffer, and applied to tissue for 1 hour at RT in a humid slide chamber. Slides were then washed 3 times for 5 minutes in PBS.	Secondary Alexafluor 568 conjugated anti-rabbit antibody was diluted 1:200 in blocking buffer with 1:2000 Draq5, and applied to tissue for 1 hour at RT in a humid slide chamber.	Slides were washed 3 times for ten minutes with PBS then covered with mounting media, coverslipped and sealed, slides were stored at -20C until imaged.

Cdkn 1c (p57 Kip2)	Santa Cruz: sc-8298	Paraffin embedded tissue was sectioned (6uM) and stored at RT	sections were dewaxed by two five minute immersions in xylenes, then 2 minute immersions in decreasing concentrations of ethanol in water (100%, 95%, 70%, 50%) followed by a brief rinse in running distilled water.	Antigen retrieval: slides were double boiled in 0.1M Sodium citrate pH6.0 for 30 minutes, and allowed to cool for 10 minutes. Slides were rinsed in dH2O for 2 minutes and washed in PBS for 5 minutes. Slides were immersed in 1% Saponin in PBS for 5 minutes, followed by 3 5 minute immersions in PBS with 0.1% Tween 20 (PBS-T). Slides were then blocked in 10% NGS in PBST for 30 minutes at RT.	Primary antibody was diluted 1:100 in blocking buffer, and applied to tissue overnight in a humid slide chamber at 4C. Slides were then washed 3 times for 10 minutes in PBS.	Secondary Alexafluor 568 conjugated anti-rabbit antibody was diluted 1:200 in blocking buffer with 1:2000 Draq5, and applied to tissue for 2 hours at RT in a humid slide chamber.	Slides were washed 3 times for ten minutes with PBS then covered with mounting media, coverslipped and sealed, slides were stored at -20C until imaged.
Cryg (gamma-crystallin)	Santa Cruz: sc-22415	Frozen tissue was sectioned (16uM) and stored at -80C	immersion in 4% paraformaldehyde (pfa) in PBS for 20 min @ RT, then slides were washed in tris buffered saline (PBS) for 5 minutes.	Samples were covered with 5% normal chicken serum in PBS supplimented with .3% Triton x100	Primary antibody was diluted 1:100 in blocking buffer, and applied to tissue for 4 hours in a humid slide chamber at RT. Slides were then washed 3 times for 10 minutes in PBS.	Secondary Alexafluor 568 conjugated anti-rabbit antibody was diluted 1:200 in blocking buffer with 1:2000 Draq5, and applied to tissue for 2 hours at RT in a humid slide chamber.	Slides were washed 3 times for ten minutes with PBS then covered with mounting media, coverslipped and sealed, slides were stored at -20C until imaged.
Cryb (beta-crystallin	gift from Samuel Zigler, Johns Hopkins University , MD)	Paraffin embedded tissue was sectioned (6uM) and stored at RT	paraffin sections were de-waxed by two immersions in Citrus Clearing Solvent for 10 minutes. Samples were rehydrated by immersion in decreeing concentrations of ethanol in water (100% 3x 3min, 95% 3x 2min, 70% 2 min.	Samples were processed using the Dako Envision horseraddish peroxidase (HRP) kit. Endogenous peroxides were eliminated covering samples with peroxidase blocking solution.	Primary antibody was diluted 1:600 in PBST and incubated in a humid slide chamber for 30 minutes at RT.	Slides were treated with anti rabbit conjugated HRP for 30 min and washed in PBS 3 times for five minutes. Slides were treated with 3,3'-diaminobenzidine (DAB) chromogen in pairs of controls and experimental slides until the tissue was visibly stained.	Slides were counterstained with Hematoxylin, and dehydrated and sealed according to our H&E protocol.
p-ERK (phosph orylated ERK	Cell Signaling : 4377s	Paraffin embedded tissue was sectioned (6uM) and stored at RT	paraffin sections were de-waxed by two immersions in Citrus Clearing Solvent for 10 minutes. Samples were rehydrated by immersion in decreeing concentrations of ethanol in water (100% 3x 3min, 95% 3x 2min, 70% 2 min.	Antigen retrieval: slides were double boiled in 0.1M Sodium citrate pH6.0 for 30 minutes, and allowed to cool for 10 minutes. Slides were rinsed in dH2O for 2 minutes and washed in PBS for 5 minutes. Slides were immersed in 1% Saponin in PBS for 5 minutes, followed by 3 5 minute immersions in PBS with 0.1% Tween 20 (PBS-T). Slides were then blocked in 10% NGS in PBST for 30 minutes at RT.	Slides were processed using the standard procedure outlined in the CSAII Biotin-Free Tyramide Signal Amplification kit with the CSAII rabbit link addition from DAKO. Primary antibody was diluted 1:50.		Slides were counterstained with Hematoxylin, and dehydrated and sealed according to our H&E protocol.

| p-AKT (Phosphorylated AKT) | Cell Signaling: 9271s | Paraffin embedded tissue was sectioned (6uM) and stored at RT | paraffin sections were de-waxed by two immersions in Citrus Clearing Solvent for 10 minutes. Sampes were rehydrated by immersion in decreseing concentrations of ethanol in water (100% 3x 3min, 95% 3x 2min, 70% 2 min. | Antigen retreival: slides were double boiled in 0.1M Sodium citrate pH6.0 for 30 minutes, and allowed to cool for 10 minutes. Slides were rinsed in dH2O for 2 minutesand washed in PBS for 5 minutes. Slides were immersed in 1% Saponin in PBS for 5 minutes, followed by 3 5 minute immersions in PBS with 0.1% Tween 20 (PBS-T). Slides were then blocked in 10% NGS in PBST for 30 minutes at RT. | Slides were processed using the standard procedure outlined in the CSAII Biotin-Free Tyramide Signal Amplification kit with the CSAII rabbit link addition from DAKO. Primary antibody was diluted 1:50. | Slides were counterstained with Hematoxylin, and dehydrated and sealed according to our H&E protocol. |

Supplementary Table 3: genes down-regulated following Prox1 loss

feature ID	fold change	FDR Pvalue	ensembl gene id	Prox1 rpkm mean	C57 rpkm mean	feature ID	fold change	FDR Pvalue	ensembl gene id	Prox1 rpkm mean	C57 rpkm mean
Lctl	-190.8	1.7E-13	ENSMUSG00000032401	0.03	2.91	Ndrg1	-11.4	1.4E-16	ENSMUSG00000005125	0.67	5.68
Dnase2b	-73.3	4.4E-11	ENSMUSG00000028185	0.12	5.55	Mafa	-11.3	2.7E-33	ENSMUSG00000047591	1.24	10.27
Birc7	-68.0	2.9E-14	ENSMUSG00000038840	0.14	6.78	Gpr160	-11.1	2.6E-83	ENSMUSG00000037661	1.55	12.93
D630024D03Rik	-64.5	1.4E-10	ENSMUSG00000085772	0.08	3.60	Cryba1	-11.1	3.9E-42	ENSMUSG00000000724	976.24	8287.86
Tmprss11e	-61.6	1.4E-06	ENSMUSG00000054537	0.09	4.03	Ggct	-10.9	2E-26	ENSMUSG00000002797	1.46	12.15
Crygf	-52.6	3.6E-15	ENSMUSG00000025945	92.23	3723.47	1300017J02Rik	-10.7	1.4E-65	ENSMUSG00000033688	1.62	13.03
Bfsp1	-39.2	2.9E-22	ENSMUSG00000027420	18.66	555.71	Tmem179	-10.5	1.6E-09	ENSMUSG00000054013	0.33	2.53
Crygb	-38.7	1.7E-21	ENSMUSG00000073658	276.61	8240.52	Bfsp2	-10.4	4E-26	ENSMUSG00000032556	19.66	155.26
Scn11a	-31.0	8.9E-52	ENSMUSG00000034115	0.15	3.53	Lim2_2	-10.4	9.4E-41	NA	31.34	249.57
Drd4	-30.4	6.5E-76	ENSMUSG00000025496	0.61	12.18	Caprin2	-10.3	7.8E-37	ENSMUSG00000030309	20.60	163.11
Hopx	-25.5	2.3E-22	ENSMUSG00000059325	0.92	17.11	Tmem40	-10.3	6.3E-47	ENSMUSG00000059900	15.31	120.59
Scnn1b	-23.2	2.2E-47	ENSMUSG00000030873	1.53	26.32	Cabp5	-10.2	1.1E-10	ENSMUSG00000005649	0.34	2.56
Gm20757	-23.1	2.9E-14	ENSMUSG00000098040	1.95	33.54	Tmod1	-10.2	1.8E-56	ENSMUSG00000028328	1.79	13.66
Crygd	-21.6	1.3E-31	ENSMUSG00000067299	318.25	5283.50	Fam89a	-10.1	1.5E-33	ENSMUSG00000043068	4.59	34.86
Hspb3	-21.3	5.9E-35	ENSMUSG00000051456	1.24	17.73	B230206L02Rik	-10.0	1.4E-08	ENSMUSG00000086003	0.27	2.09
Sct	-21.2	3.9E-16	ENSMUSG00000038580	0.20	3.35	Dmtn	-9.8	7.7E-54	ENSMUSG00000022099	1.75	12.88
Gm14546	-20.5	3.1E-19	ENSMUSG00000086762	0.17	2.44	Zfp365	-9.8	9E-51	ENSMUSG00000037855	8.10	61.18
Pgam2	-20.3	9.8E-33	ENSMUSG00000020475	11.10	171.23	Crybb3	-9.6	4.8E-42	ENSMUSG00000029352	1301.62	9556.74
Plekhs1	-20.0	6.7E-24	ENSMUSG00000035818	0.44	6.50	Pgm5	-9.6	2E-33	ENSMUSG00000041731	3.00	21.79
Myo18b	-19.6	1.4E-22	ENSMUSG00000072720	0.29	4.23	Scgn	-9.5	1.1E-23	ENSMUSG00000021337	0.69	5.22
Slc24a4	-19.2	1E-28	ENSMUSG00000041771	1.46	21.32	Cela1	-9.3	1.3E-61	ENSMUSG00000023031	10.47	74.85
Gcg	-18.7	4.6E-44	ENSMUSG00000000394	1.45	19.19	Fgfr3	-9.3	3.8E-55	ENSMUSG00000054252	5.26	37.60
Myo7b	-18.2	1.9E-18	ENSMUSG00000024388	0.49	6.71	Hfe	-9.3	8.6E-25	ENSMUSG00000006611	2.12	14.78
Wnt7a	-17.5	1.3E-24	ENSMUSG00000030093	1.31	17.08	Gsn	-9.2	3.9E-45	ENSMUSG00000026879	29.53	210.46
Bcmo1	-16.7	1.9E-25	ENSMUSG00000031845	0.27	3.35	Nol3	-8.9	1.2E-38	ENSMUSG00000014776	1.39	9.21
1700080G11Rik	-16.5	7.7E-10	ENSMUSG00000086771	0.15	2.53	Dync1i1	-8.7	1.4E-20	ENSMUSG00000029757	0.94	6.07
Crygs	-16.0	8E-35	ENSMUSG00000033501	18.08	220.23	Grifin	-8.5	3.8E-51	ENSMUSG00000036586	40.47	263.22
Gm26847	-15.9	8.1E-46	ENSMUSG00000097526	12.78	156.15	Mtnr1a	-8.4	8.9E-32	ENSMUSG00000054764	1.91	12.17
Cryga	-15.8	5.2E-31	ENSMUSG00000044429	1003.75	12221.23	Myh7b	-8.4	8.2E-32	ENSMUSG00000074652	1.23	7.86
St18	-15.7	3.8E-38	ENSMUSG00000033740	0.20	2.22	Gm15417	-8.2	7.2E-09	ENSMUSG00000074466	1.21	7.50
Snx22	-15.6	1E-16	ENSMUSG00000039452	1.12	13.06	Capn3	-8.0	9.8E-56	ENSMUSG00000079110	224.71	1401.46
Cryba2	-15.6	4.9E-46	ENSMUSG00000006546	382.22	4600.10	Gstp2	-7.9	1E-12	ENSMUSG00000038155	1.43	8.34
S100a4	-15.4	6.7E-14	ENSMUSG00000001020	1.68	17.59	Gadd45b	-7.9	6.5E-12	ENSMUSG00000015312	1.29	7.46
Chrng	-15.3	1.9E-41	ENSMUSG00000026253	5.24	61.97	Tdrd7	-7.8	4.5E-42	ENSMUSG00000035517	59.33	354.57
Cryba4	-14.8	5.8E-37	ENSMUSG00000066975	896.00	10270.19	Trpc6	-7.8	2.4E-26	ENSMUSG00000031997	3.36	19.73
Syn2	-14.8	1.9E-57	ENSMUSG00000009394	0.82	8.99	Poln	-7.6	7.5E-13	ENSMUSG00000045102	0.39	2.16
Crygc	-14.6	4.6E-35	ENSMUSG00000025952	340.35	3804.70	Lgi2	-7.5	7.6E-37	ENSMUSG00000039252	6.68	38.45
1500009C09Rik	-13.7	3.7E-33	ENSMUSG00000068099	0.61	5.75	Spta1	-7.5	1.4E-38	ENSMUSG00000026532	0.50	2.88
Prox1os	-13.6	1.1E-48	ENSMUSG00000079045	6.81	70.17	Nrcam	-7.4	2E-38	ENSMUSG00000020598	9.31	53.58
Sec14l5	-13.6	7.6E-37	ENSMUSG00000091712	0.54	4.97	Crygn	-7.4	1.6E-44	ENSMUSG00000038135	535.02	3026.93
Cryge	-13.5	5.1E-38	ENSMUSG00000070870	1025.95	10704.19	Slc46a3	-7.3	3.3E-19	ENSMUSG00000029650	1.52	8.31
Rspo1	-13.5	7.1E-79	ENSMUSG00000028871	4.59	47.02	Akap14	-7.1	5.1E-22	ENSMUSG00000036551	0.93	4.99
Mip	-13.4	7.5E-45	ENSMUSG00000025389	159.97	1657.29	Pip5kl1	-7.0	8E-86	ENSMUSG00000046854	5.34	29.05
Bmper	-12.9	7E-40	ENSMUSG00000031963	4.19	41.69	Unc13c	-7.0	6.6E-19	ENSMUSG00000062151	0.62	3.23
Pla2g7	-12.6	2.9E-24	ENSMUSG00000023913	16.92	162.56	Epn3	-6.9	2.8E-39	ENSMUSG00000010080	0.72	3.83
Ermap	-12.4	1.1E-24	ENSMUSG00000028644	0.71	6.54	Osbp2	-6.8	3.6E-54	ENSMUSG00000020435	6.72	35.42
Lyzl4	-12.3	3.1E-39	ENSMUSG00000032530	1.21	10.96	Tmem252	-6.8	1E-19	ENSMUSG00000048572	1.46	7.40
Gje1	-12.0	2.6E-45	ENSMUSG00000019867	3.93	35.61	Gls2	-6.7	4.1E-22	ENSMUSG00000044005	0.43	2.25
Hsf4	-11.7	1.6E-41	ENSMUSG00000033249	7.13	63.67	Cend1	-6.7	9.8E-25	ENSMUSG00000060240	1.18	5.77
Crybb1	-11.6	8E-49	ENSMUSG00000029343	2318.10	20757.30	Stx11	-6.4	1.7E-05	ENSMUSG00000039232	0.76	3.66

feature ID	fold change	FDR Pvalue	ensembl gene id	Prox1 rpkm mean	C57 rpkm mean	feature ID	fold change	FDR Pvalue	ensembl gene id	Prox1 rpkm mean	C57 rpkm mean
Zbtb7b	-6.5	4.9E-11	ENSMUSG00000028042	2.03	9.93	Fn3krp	-4.9	9E-33	ENSMUSG00000039253	13.59	51.36
Pla2g16	-6.4	1.7E-23	ENSMUSG00000060675	12.55	61.54	Rab42	-4.9	2.9E-09	ENSMUSG00000089687	0.88	3.87
Gm11427	-6.3	3.7E-11	ENSMUSG00000083161	0.54	2.74	Ogn	-4.9	8.4E-13	ENSMUSG00000021390	2.81	10.42
Rsph10b	-6.3	1.4E-12	ENSMUSG00000075569	0.67	3.17	Rnf180	-4.8	6.4E-06	ENSMUSG00000021720	2.50	8.98
Lingo3	-6.2	3.6E-32	ENSMUSG00000051067	0.92	4.47	Prkaa2	-4.7	3.6E-25	ENSMUSG00000028518	2.52	9.12
RP23-380A10.3	-6.2	3.4E-06	NA	0.45	2.00	Hist1h2bc	-4.7	3.8E-35	ENSMUSG00000018102	16.19	58.74
Cryaa	-6.2	4E-42	ENSMUSG00000024041	15055.37	71641.20	Cyb5r2	-4.7	7.1E-12	ENSMUSG00000048065	0.65	2.31
Prkca	-6.2	1.8E-35	ENSMUSG00000050965	1.77	8.31	Rnf19b	-4.7	6.8E-30	ENSMUSG00000028793	10.89	38.89
Pygm	-6.1	2.7E-48	ENSMUSG00000032648	22.49	106.00	Fam46c	-4.6	1.1E-29	ENSMUSG00000044468	25.12	90.13
Thsd4	-6.1	1.3E-11	ENSMUSG00000032289	1.24	5.76	Ace	-4.6	2.5E-22	ENSMUSG00000020681	0.74	2.58
R3hdml	-6.0	2.7E-18	ENSMUSG00000078949	6.20	28.28	Qpct	-4.5	1.6E-22	ENSMUSG00000024084	3.99	13.99
Akr1b8	-6.0	9.3E-22	ENSMUSG00000029762	1.10	5.39	Entpd1	-4.5	4.5E-32	ENSMUSG00000048120	3.85	13.38
Cpeb3	-5.9	6.8E-14	ENSMUSG00000039652	0.46	2.02	Vit	-4.5	9.6E-43	ENSMUSG00000024076	77.18	270.98
Zmat4	-5.9	1.3E-18	ENSMUSG00000037492	0.71	3.15	Ndrg4	-4.5	5.3E-48	ENSMUSG00000036564	4.42	15.31
Kcnma1	-5.8	4.8E-31	ENSMUSG00000063142	0.89	3.86	Tnfrsf23	-4.5	8.6E-20	ENSMUSG00000037613	1.28	4.32
Lin7a	-5.8	1.2E-50	ENSMUSG00000019906	4.10	18.34	Gm11961	-4.5	4.8E-12	ENSMUSG00000056288	1.53	5.39
Rcan2	-5.8	2E-36	ENSMUSG00000039601	2.01	8.75	Pstpip2	-4.5	6E-08	ENSMUSG00000025429	1.27	4.16
Pon2	-5.8	1.1E-38	ENSMUSG00000032667	14.97	66.29	Rgs8	-4.5	3E-51	ENSMUSG00000042671	6.33	21.93
Cd24a	-5.7	1.2E-40	ENSMUSG00000047139	342.95	1517.01	Cnih2	-4.4	9.7E-40	ENSMUSG00000024873	10.49	36.04
Stat5a	-5.7	4.7E-28	ENSMUSG00000004043	0.85	3.65	Gpr19	-4.4	1.2E-37	ENSMUSG00000032641	5.07	17.33
Gm14005	-5.6	4.4E-09	ENSMUSG00000074813	0.62	2.63	Itpk1	-4.4	4E-34	ENSMUSG00000057963	5.66	19.17
Nyap1	-5.5	3.6E-57	ENSMUSG00000045348	11.28	48.42	Itga2	-4.4	1.6E-13	ENSMUSG00000015533	1.69	5.69
Fam131a	-5.5	3.1E-36	ENSMUSG00000050821	3.43	14.48	Gprc5b	-4.4	2.4E-35	ENSMUSG00000008734	19.39	65.84
Add2	-5.4	1.1E-33	ENSMUSG00000030000	5.99	24.93	Fgfrl1	-4.4	2.1E-28	ENSMUSG00000008090	14.83	50.00
Arntl2	-5.4	7.5E-29	ENSMUSG00000040187	1.39	5.68	Dner	-4.4	4.4E-11	ENSMUSG00000036766	1.56	5.17
Espn	-5.3	8.9E-44	ENSMUSG00000028943	1.52	6.18	Sptb	-4.4	1E-19	ENSMUSG00000021061	19.31	65.48
Arhgdig	-5.3	5.3E-23	ENSMUSG00000073433	0.88	3.59	Map6d1	-4.3	1E-27	ENSMUSG00000041205	2.53	8.41
Ptgfr	-5.3	8.1E-17	ENSMUSG00000028036	2.54	10.28	Dbnl	-4.3	1E-36	ENSMUSG00000020476	59.24	198.23
Htatip2	-5.3	6.7E-10	ENSMUSG00000039745	0.74	2.71	Jazf1	-4.3	1E-52	ENSMUSG00000063568	6.48	21.77
Efcab10	-5.2	3.3E-06	ENSMUSG00000020562	0.58	2.58	S1pr5	-4.3	1.5E-17	ENSMUSG00000045087	1.32	4.35
2900005J15Rik	-5.2	1.1E-11	ENSMUSG00000043833	0.78	3.21	Btbd17	-4.3	7.7E-40	ENSMUSG00000000202	5.19	17.26
B230312C02Rik	-5.2	4.4E-42	ENSMUSG00000084843	7.32	29.36	Hist2h3c2	-4.2	1.1E-09	ENSMUSG00000081058	1.12	3.51
Gm17586	-5.2	2E-32	ENSMUSG00000097062	18.44	73.00	Magi2_1	-4.2	1.1E-07	NA	0.77	2.46
Gja3	-5.2	5.5E-38	ENSMUSG00000048582	69.21	274.68	Tex2	-4.2	8.8E-26	ENSMUSG00000040548	5.42	17.49
Lsamp	-5.1	3.7E-22	ENSMUSG00000061080	1.08	4.28	Snhg12	-4.2	1.6E-17	ENSMUSG00000086290	21.58	68.97
Gss	-5.1	3.4E-30	ENSMUSG00000027610	6.90	27.08	Adc	-4.2	1.1E-20	ENSMUSG00000028789	3.64	11.57
Zfp185	-5.1	1.1E-49	ENSMUSG00000031351	12.06	47.51	Tob1	-4.1	3.2E-24	ENSMUSG00000037573	39.37	125.10
Nkg7	-5.1	2.7E-08	ENSMUSG00000004612	0.52	2.11	Cdkl2	-4.1	2.8E-20	ENSMUSG00000029403	0.98	3.07
Mboat1	-5.0	4.9E-41	ENSMUSG00000038732	11.52	44.52	Abtb2	-4.1	3E-19	ENSMUSG00000032724	3.73	11.59
Rnaset2b	-5.0	1.3E-23	ENSMUSG00000094724	1.80	6.87	Reep1	-4.0	4.6E-37	ENSMUSG00000052852	12.02	37.56
Paqr7	-5.0	6.9E-31	ENSMUSG00000037348	2.00	7.67	Adra2a	-4.0	4.9E-19	ENSMUSG00000033717	0.91	2.78
Synm	-5.0	9.5E-23	ENSMUSG00000030554	10.57	40.79	Metap1	-4.0	2.3E-29	ENSMUSG00000005813	33.44	103.99
Gstp1	-5.0	5.5E-30	ENSMUSG00000060803	52.86	202.87	Optn	-4.0	1.4E-10	ENSMUSG00000026672	4.45	13.59
Clgn	-5.0	9.2E-31	ENSMUSG00000002190	1.24	4.76	Tecrl	-4.0	3.5E-07	ENSMUSG00000049537	0.85	2.66
Sqrdl	-5.0	1.9E-27	ENSMUSG00000005803	1.21	4.57	Stk39	-4.0	1.3E-36	ENSMUSG00000027030	19.00	59.09
Sorbs1	-5.0	2.1E-20	ENSMUSG00000025006	4.65	17.79	Fam46b	-4.0	0.00012	ENSMUSG00000046694	0.84	2.54
Aldoc	-5.0	3.6E-28	ENSMUSG00000017390	2.27	8.52	Kif1a	-4.0	1.3E-13	ENSMUSG00000014602	14.51	44.61
Hebp2	-5.0	1.9E-44	ENSMUSG00000019853	5.02	19.03	Pmp22	-4.0	1.1E-27	ENSMUSG00000018217	24.44	74.78
Wnt7b	-5.0	4.7E-22	ENSMUSG00000022382	13.42	50.96	Cyyr1	-4.0	1.2E-16	ENSMUSG00000041134	4.04	12.34
Metrnl	-4.9	1E-35	ENSMUSG00000039208	7.34	27.71	Clu	-3.9	1.9E-23	ENSMUSG00000022037	30.72	93.71

feature ID	fold change	FDR Pvalue	ensembl gene id	Prox1 rpkm mean	C57 rpkm mean
Ctnna2	-3.9	4E-42	ENSMUSG00000063063	2.34	7.13
Id2	-3.9	3.7E-45	ENSMUSG00000020644	60.12	183.57
Gck	-3.9	2.5E-36	ENSMUSG00000041798	5.95	18.14
Vwa5a	-3.9	3E-24	ENSMUSG00000023186	9.90	29.97
Gpr137b-ps	-3.9	5.9E-11	ENSMUSG00000097715	1.28	3.72
Mturn	-3.9	4.4E-25	ENSMUSG00000038065	7.59	22.69
Casp7	-3.9	8.4E-19	ENSMUSG00000025076	14.37	42.48
Tppp3	-3.9	7.4E-39	ENSMUSG00000014846	7.65	22.95
Rnf113a1	-3.8	4.8E-09	ENSMUSG00000036537	25.74	74.72
Dock5	-3.8	5E-19	ENSMUSG00000044447	9.10	27.10
Ndufs5	-3.8	9.2E-13	ENSMUSG00000028648	4.74	13.92
Il18	-3.8	5.7E-08	ENSMUSG00000039217	1.47	4.41
Fibin	-3.7	0.0001	ENSMUSG00000074971	2.05	5.80
Mocs2	-3.7	1E-23	ENSMUSG00000015536	8.37	23.91
Tsc2	-3.7	2.5E-15	ENSMUSG00000002496	22.41	63.47
Syt5	-3.7	7E-12	ENSMUSG00000004961	1.82	5.08
Prkag2	-3.7	1.8E-32	ENSMUSG00000028944	6.96	19.74
Rfx8	-3.7	5.8E-09	ENSMUSG00000057173	0.83	2.26
Sptbn1	-3.7	1.4E-19	ENSMUSG00000020315	32.36	92.67
Rilpl1	-3.7	1E-35	ENSMUSG00000029392	28.59	81.06
Kcnj11	-3.6	9.5E-12	ENSMUSG00000096146	2.65	7.43
Serpinb6b	-3.6	1.8E-08	ENSMUSG00000042842	0.95	2.59
Tubb2a	-3.6	3.7E-31	ENSMUSG00000058672	17.02	47.80
Efcab1	-3.6	1.5E-35	ENSMUSG00000068617	12.03	33.77
Abcc8	-3.6	1.7E-28	ENSMUSG00000040136	3.22	9.07
Gpm6b	-3.6	3.6E-14	ENSMUSG00000031342	4.88	13.42
Cpne7	-3.6	6.8E-16	ENSMUSG00000034796	0.97	2.71
Nap1l4	-3.6	2E-31	ENSMUSG00000059119	236.18	653.88
Gadd45g	-3.5	6E-13	ENSMUSG00000021453	9.36	25.26
Cpeb2	-3.5	4.3E-23	ENSMUSG00000039782	5.21	14.14
Map6	-3.5	3.7E-43	ENSMUSG00000055407	6.19	16.82
Osbpl11	-3.5	7.5E-29	ENSMUSG00000022807	14.83	39.87
Ptplad2	-3.5	1.2E-24	ENSMUSG00000028497	4.69	12.53
Cpeb1	-3.4	4.5E-34	ENSMUSG00000025586	6.15	16.32
Bpnt1	-3.4	2.3E-43	ENSMUSG00000026617	14.22	37.85
Dgkg	-3.4	1.8E-10	ENSMUSG00000022861	0.80	2.06
Ell2	-3.4	1.7E-26	ENSMUSG00000001542	52.22	137.46
Atp8a1	-3.4	1.6E-14	ENSMUSG00000037685	1.48	3.87
Pde2a	-3.3	6.3E-11	ENSMUSG00000030653	8.34	21.23
Fxyd1	-3.3	2.6E-08	ENSMUSG00000036570	2.85	7.36
Dnmbp	-3.3	7.8E-20	ENSMUSG00000025195	9.66	24.52
Nexn	-3.3	1.2E-18	ENSMUSG00000039103	3.19	8.08
Ngef	-3.3	4.5E-30	ENSMUSG00000026259	4.55	11.50
Herc4	-3.2	2.7E-28	ENSMUSG00000020064	32.19	80.77
Rnf123	-3.2	8.6E-27	ENSMUSG00000041528	6.21	15.53
Lyrm1	-3.2	2.2E-12	ENSMUSG00000030922	2.48	6.24
Pdlim1	-3.2	1.7E-13	ENSMUSG00000055044	3.32	8.13
Rab3b	-3.2	1.8E-19	ENSMUSG00000003411	2.55	6.33
Rnaset2a	-3.2	9.7E-09	ENSMUSG00000095687	1.61	4.06
Nacc2	-3.2	2E-16	ENSMUSG00000026932	2.08	5.07
Arvcf	-3.2	4E-24	ENSMUSG00000000325	19.17	46.55
Kcnq4	-3.2	1.3E-25	ENSMUSG00000028631	2.52	6.09
Adamts18	-3.2	5.5E-29	ENSMUSG00000053399	22.87	56.15
Tmem9b	-3.2	4.1E-25	ENSMUSG00000031021	17.04	41.75
Rpl34	-3.2	6.2E-06	ENSMUSG00000062006	35.79	87.59
Blvra	-3.1	3.3E-14	ENSMUSG00000001999	2.81	6.74
B3gnt5	-3.1	5.6E-22	ENSMUSG00000022686	19.42	46.86
Tbc1d22a	-3.1	1.6E-18	ENSMUSG00000051864	10.67	25.51
Gm11837	-3.1	1.3E-10	ENSMUSG00000086587	5.76	13.68
Adamtsl4	-3.1	8.2E-09	ENSMUSG00000015850	3.07	7.23
Cars	-3.1	4.7E-20	ENSMUSG00000010755	13.63	32.32
Slain1	-3.1	2.5E-31	ENSMUSG00000055717	6.06	14.59
Gpr137b	-3.1	2.1E-22	ENSMUSG00000021306	46.74	110.92
Nudt22	-3.1	1.4E-15	ENSMUSG00000037349	7.39	17.53
Rexo2	-3.0	2.8E-21	ENSMUSG00000032026	35.97	84.09
Gm14295	-3.0	1E-10	ENSMUSG00000078877	1.12	2.63
Fgfbp3	-3.0	7.7E-14	ENSMUSG00000047632	5.43	12.72
Rasl11b	-3.0	1.5E-25	ENSMUSG00000049907	54.36	126.61
Kif26b	-3.0	0.00017	ENSMUSG00000026494	0.96	2.22
Ddx26b	-3.0	1.2E-20	ENSMUSG00000035967	32.33	74.76
Lnp	-3.0	2.1E-19	ENSMUSG00000009207	7.04	16.12
Cttnbp2	-3.0	1.2E-19	ENSMUSG00000000416	2.17	4.95
Hlcs	-3.0	1.7E-25	ENSMUSG00000040820	9.44	21.66
Pnpla6	-2.9	1.3E-39	ENSMUSG00000004565	9.58	21.92
Cbs	-2.9	2.5E-11	ENSMUSG00000024039	0.88	2.03
Sntb1	-2.9	3E-11	ENSMUSG00000060429	6.46	14.50
Pbx4	-2.9	2.4E-14	ENSMUSG00000031860	2.34	5.40
Adam9	-2.9	1.1E-25	ENSMUSG00000031555	20.73	46.22
Gas6	-2.9	1.6E-16	ENSMUSG00000031451	8.10	17.78
Ppip5k2	-2.9	8.1E-28	ENSMUSG00000040648	8.31	18.41
Zfp385a	-2.8	6E-32	ENSMUSG00000000552	34.12	75.71
Insig1	-2.8	2.8E-28	ENSMUSG00000045294	31.09	68.61
Igsf9	-2.8	2.4E-21	ENSMUSG00000037995	18.84	41.24
Nabp1	-2.8	2.9E-14	ENSMUSG00000026107	2.85	6.22
Peli1	-2.8	4.1E-24	ENSMUSG00000020134	13.36	29.19
E530001K10Rik	-2.8	6.2E-08	ENSMUSG00000075020	4.82	10.40
Gls	-2.8	2.6E-21	ENSMUSG00000026103	12.27	26.70
Gm13152	-2.8	6.3E-09	ENSMUSG00000078496	4.28	9.30
Gm5607	-2.8	4.7E-19	ENSMUSG00000047935	7.36	15.96
Aldh1a7	-2.8	7.2E-20	ENSMUSG00000024747	40.36	87.36
Snap91	-2.8	1.6E-19	ENSMUSG00000033419	2.08	4.50
Sardh	-2.8	6.8E-07	ENSMUSG00000009614	1.01	2.16
C2cd2l	-2.8	5.8E-29	ENSMUSG00000032120	5.37	11.66
Scamp5	-2.8	1.6E-11	ENSMUSG00000040722	7.57	16.15
Megf9	-2.8	6E-14	ENSMUSG00000039270	15.45	33.12
Dnajb2	-2.8	3.6E-18	ENSMUSG00000026203	9.49	20.34
Hmgn3	-2.8	6.4E-11	ENSMUSG00000066456	34.04	72.23
Mecr	-2.8	2.9E-22	ENSMUSG00000028910	7.13	15.31
Sowaha	-2.8	7.6E-22	ENSMUSG00000044352	14.99	32.44
Mob3b	-2.8	1.2E-16	ENSMUSG00000073910	3.08	6.54

feature ID	fold change	FDR Pvalue	ensembl gene id	Prox1 rpkm mean	C57 rpkm mean	feature ID	fold change	FDR Pvalue	ensembl gene id	Prox1 rpkm mean	C57 rpkm mean
Sptan1	-2.8	4.7E-22	ENSMUSG00000057738	65.64	140.46	Mettl22	-2.6	3.2E-13	ENSMUSG00000039345	3.10	6.24
Dst	-2.7	1.6E-06	ENSMUSG00000026131	6.80	14.68	Ncoa7	-2.6	1.8E-15	ENSMUSG00000039697	7.08	14.23
Efcab2	-2.7	2.7E-14	ENSMUSG00000026495	5.04	10.57	C77080	-2.6	1.4E-20	ENSMUSG00000050390	8.67	17.45
Klhl5	-2.7	4.5E-20	ENSMUSG00000054920	5.85	12.29	Rbp3	-2.6	7.9E-13	ENSMUSG00000041534	5.42	10.79
Zbtb8b	-2.7	1.3E-24	ENSMUSG00000048485	7.08	15.03	Spg20	-2.6	1.1E-22	ENSMUSG00000036580	19.89	39.91
Ipo8	-2.7	2.2E-22	ENSMUSG00000040029	9.64	20.52	Slc25a22	-2.6	1.2E-11	ENSMUSG00000019082	4.38	8.76
Reep2	-2.7	1.8E-28	ENSMUSG00000038555	12.41	26.31	Trim9	-2.6	1.3E-23	ENSMUSG00000021071	5.85	11.71
Kcnj12	-2.7	2.9E-24	ENSMUSG00000042529	10.15	21.47	Eno3	-2.6	3.7E-25	ENSMUSG00000060600	23.84	47.99
Prx	-2.7	6.6E-18	ENSMUSG00000053198	13.87	29.09	Tubb6	-2.6	2.4E-22	ENSMUSG00000001473	32.95	65.97
Fah	-2.7	8.3E-09	ENSMUSG00000030630	1.35	2.87	Mllt11	-2.6	6.2E-08	ENSMUSG00000053192	2.64	5.22
Nedd4l	-2.7	3.3E-19	ENSMUSG00000024589	2.52	5.28	9930104L06Rik	-2.6	7.9E-20	ENSMUSG00000044730	3.71	7.41
Vldlr	-2.7	2.3E-17	ENSMUSG00000024924	7.24	15.08	Gm14296	-2.6	8E-17	ENSMUSG00000074527	2.04	4.06
Cpt2	-2.7	5.7E-17	ENSMUSG00000028607	15.80	32.74	Spink13	-2.6	0.01804	ENSMUSG00000073551	2.41	4.69
Prkab2	-2.7	2.5E-15	ENSMUSG00000038205	7.45	15.35	Epb4.1l4a	-2.6	5.3E-22	ENSMUSG00000024376	40.29	79.89
Pcsk6	-2.7	3.6E-08	ENSMUSG00000030513	1.74	3.53	Rhot1	-2.6	5.2E-15	ENSMUSG00000017686	8.28	16.29
Ass1	-2.7	5.1E-14	ENSMUSG00000076441	4.36	8.88	Osgin2	-2.6	3.9E-17	ENSMUSG00000041153	4.46	8.83
Cyp7b1	-2.7	1E-10	ENSMUSG00000039519	3.00	6.14	Dnajb1	-2.6	5E-10	ENSMUSG00000005483	28.72	56.13
Mthfd1l	-2.6	1.5E-27	ENSMUSG00000040675	14.37	29.63	Slc38a5	-2.5	5.8E-06	ENSMUSG00000031170	1.02	2.05
Gpx1	-2.6	8.9E-19	ENSMUSG00000063856	165.58	337.66	Mapk8ip1	-2.5	4.3E-24	ENSMUSG00000027223	8.88	17.51
Uchl1	-2.6	4.1E-18	ENSMUSG00000029223	57.91	117.93	Fktn	-2.5	9.6E-19	ENSMUSG00000028414	11.92	23.47
Eif2s3y	-2.6	1.4E-06	ENSMUSG00000069049	6.74	13.57	Inf2	-2.5	4.8E-07	ENSMUSG00000037679	1.74	3.36
A430105I19Rik	-2.6	2.3E-23	ENSMUSG00000045838	4.80	9.77	Tdrkh	-2.5	2.9E-21	ENSMUSG00000041912	11.96	23.48
Spag5	-2.6	4.2E-23	ENSMUSG00000002055	17.91	36.48	Pkp2	-2.5	2.7E-27	ENSMUSG00000041957	7.07	13.91
Cul3	-2.6	1.4E-22	ENSMUSG00000004364	52.92	107.96	Kat2b	-2.5	3.3E-14	ENSMUSG00000000708	4.50	8.76
Nudt17	-2.6	3.1E-06	ENSMUSG00000028100	1.18	2.50	Gabrg3	-2.5	3.2E-06	ENSMUSG00000055026	1.06	2.03
Me1	-2.6	2.4E-15	ENSMUSG00000032418	4.99	10.06	Mthfsl	-2.5	7.9E-07	ENSMUSG00000079427	1.19	2.36
Zfyve21	-2.6	1.6E-21	ENSMUSG00000021286	19.62	39.89	Dpf3	-2.5	2.1E-08	ENSMUSG00000021221	2.28	4.37
Gm14326	-2.6	2.6E-05	ENSMUSG00000078862	1.34	2.65	Arhgap31	-2.5	2.8E-07	ENSMUSG00000022799	7.33	14.35

Supplementary Table 4: Genes up-regulated following Prox1 loss

feature ID	fold change	FDR Pvalue	ensembl gene id	Prox1 mean RPKM	C57 mean RPKM
Calb1	120.5	1.1E-124	ENSMUSG00000028222	11.89	0.08
Ppp1r14c	67.6	1.4E-77	ENSMUSG00000040653	12.28	0.14
Cngb3	55.9	2.3E-159	ENSMUSG00000056494	18.91	0.26
Pde11a	49.5	2.0E-34	ENSMUSG00000075270	2.01	0.03
Tnc	30.6	1.2E-82	ENSMUSG00000028364	55.12	1.40
Hpse	27.0	9.7E-82	ENSMUSG00000035273	11.58	0.33
Rgs6	20.8	7.3E-76	ENSMUSG00000021219	5.46	0.21
Gm12901	18.6	2.0E-02	ENSMUSG00000083720	22.89	0.93
Sox21	18.4	3.8E-34	ENSMUSG00000061517	3.51	0.15
C1qtnf4	18.1	3.9E-45	ENSMUSG00000040794	21.80	0.94
Prokr1	13.4	1.6E-60	ENSMUSG00000049409	26.03	1.51
Klf5	12.7	4.4E-10	ENSMUSG00000005148	2.05	0.12
Tlr5	12.5	9.9E-23	ENSMUSG00000079164	2.11	0.13
Slc1a2	12.0	1.5E-78	ENSMUSG00000005089	7.35	0.48
Tff2	11.9	2.7E-11	ENSMUSG00000024028	5.02	0.33
Slc44a5	11.5	8.0E-49	ENSMUSG00000028360	4.76	0.33
Gm5900	10.5	5.5E-11	ENSMUSG00000094685	3.23	0.24
Ttr	10.2	2.7E-03	ENSMUSG00000061808	5.00	0.40
Trac	10.1	3.0E-07	ENSMUSG00000076928	2.70	0.19
Gm15631	10.0	7.5E-11	ENSMUSG00000085067	3.08	0.24
Pxdc1	8.5	1.4E-30	ENSMUSG00000021411	10.77	0.99
Smim1	7.9	3.9E-45	ENSMUSG00000078350	5.10	0.51
Tnnt3	7.7	5.7E-15	ENSMUSG00000061723	3.82	0.38
Cxcl14	7.7	2.0E-17	ENSMUSG00000021508	4.21	0.42
Cma1	7.7	3.5E-07	ENSMUSG00000022225	2.03	0.21
Depdc7	7.6	3.4E-15	ENSMUSG00000027173	2.43	0.25
Capn6	7.6	2.0E-17	ENSMUSG00000067276	11.99	1.26
Ppfibp2	7.5	1.1E-44	ENSMUSG00000036528	10.21	1.08
Wfikkn2	7.2	6.7E-35	ENSMUSG00000044177	5.88	0.63
Pltp	7.2	4.6E-15	ENSMUSG00000017754	11.76	1.30
Trim6	7.2	3.5E-25	ENSMUSG00000072244	8.35	0.91
Krt15	7.1	3.3E-05	ENSMUSG00000054146	8.79	0.97
Srpx	6.6	2.1E-22	ENSMUSG00000090084	5.70	0.67
Gm10800	6.4	1.2E-02	ENSMUSG00000075014	956.81	124.16
Itga8	6.4	2.8E-21	ENSMUSG00000026768	3.40	0.42
Eln	6.4	5.4E-04	ENSMUSG00000029675	9.16	1.13
Phactr1	6.2	1.2E-21	ENSMUSG00000054728	2.52	0.32
Tifa	6.2	2.1E-23	ENSMUSG00000046688	10.42	1.31
Tshr	6.2	8.4E-23	ENSMUSG00000020963	5.02	0.64
Gm10801	6.1	1.2E-02	ENSMUSG00000075015	269.14	36.60
Col1a1	6.1	1.2E-05	ENSMUSG00000001506	102.48	13.25
Mapk4	6.1	1.3E-37	ENSMUSG00000024558	5.85	0.75
Nnat	5.6	1.2E-53	ENSMUSG00000067786	40.59	5.63
Nrg1	5.6	3.6E-12	ENSMUSG00000062991	3.63	0.51
Col14a1	5.6	2.8E-04	ENSMUSG00000022371	6.36	0.90
A930003A15Rik	5.6	6.2E-27	ENSMUSG00000075330	53.49	7.37
Fosl2	5.5	5.2E-22	ENSMUSG00000029135	4.29	0.61
Gprc5a	5.5	1.3E-14	ENSMUSG00000046733	3.58	0.51
Pdlim3	5.5	3.5E-10	ENSMUSG00000031636	3.84	0.54
Sytl2	5.5	2.6E-17	ENSMUSG00000030616	2.21	0.32
Lox	5.4	2.1E-04	ENSMUSG00000024529	13.32	1.98
Mrc2	5.3	2.1E-24	ENSMUSG00000020695	21.66	3.24
Gfra2	5.3	2.4E-34	ENSMUSG00000022103	13.70	2.02
Gm11650	5.3	2.6E-07	ENSMUSG00000087184	2.23	0.33
Slc22a5	5.2	3.4E-35	ENSMUSG00000018900	14.78	2.21
Kera	5.2	2.6E-03	ENSMUSG00000019932	8.77	1.26
Rgs13	5.2	6.3E-14	ENSMUSG00000051079	15.63	2.33
Glb1l2	5.2	3.7E-27	ENSMUSG00000036395	4.35	0.65
Elmod1	5.2	1.2E-13	ENSMUSG00000041986	3.17	0.48
Krt5	5.2	3.3E-04	ENSMUSG00000061527	15.57	2.42
Klhl14	5.2	1.8E-20	ENSMUSG00000042514	4.10	0.62
Gm21738	5.2	3.8E-02	ENSMUSG00000095280	43.94	7.16
Slc11a1	5.1	1.0E-18	ENSMUSG00000026177	5.44	0.84
Kcna5	5.0	3.3E-11	ENSMUSG00000045534	7.30	1.16
4930426D05Rik	5.0	1.1E-09	ENSMUSG00000043168	3.46	0.54
Smoc2	5.0	7.1E-04	ENSMUSG00000023886	8.17	1.27
Vcan	4.9	4.3E-15	ENSMUSG00000021614	18.68	3.04
Col17a1	4.8	9.6E-04	ENSMUSG00000025064	2.32	0.39
Pdgfc	4.7	7.0E-13	ENSMUSG00000028019	6.07	1.02
Bves	4.7	4.8E-18	ENSMUSG00000071317	6.48	1.07
Ahnak	4.7	2.6E-06	ENSMUSG00000069833	10.79	1.86
Nkain4	4.7	5.9E-17	ENSMUSG00000027574	10.71	1.79
Matn4	4.7	7.7E-03	ENSMUSG00000016995	4.47	0.74
Ramp3	4.6	4.0E-17	ENSMUSG00000041046	6.87	1.16
Lypd6b	4.6	3.5E-13	ENSMUSG00000026765	4.15	0.70
Cx3cl1	4.6	2.2E-43	ENSMUSG00000031778	94.65	15.90
Tyr	4.5	3.5E-05	ENSMUSG00000004651	15.38	2.73
Klhdc8a	4.5	7.5E-13	ENSMUSG00000042115	2.68	0.46
Nfix	4.5	2.9E-04	ENSMUSG00000001911	2.30	0.41
Osbpl3	4.4	8.6E-46	ENSMUSG00000029822	12.89	2.28
Hist1h1d	4.4	1.2E-03	ENSMUSG00000052565	4.88	0.86
Sox9	4.4	8.8E-28	ENSMUSG00000000567	12.97	2.31
Rlbp1	4.4	9.0E-07	ENSMUSG00000039194	8.25	1.50
Dsp	4.4	1.0E-04	ENSMUSG00000054889	3.32	0.61
Cldn11	4.4	1.3E-04	ENSMUSG00000037625	4.01	0.72
Egfl6	4.4	1.1E-03	ENSMUSG00000000402	3.86	0.69
Col8a1	4.3	6.0E-04	ENSMUSG00000068196	8.19	1.53
Col12a1	4.3	5.2E-04	ENSMUSG00000032332	10.04	1.89
Agtr2	4.3	4.8E-03	ENSMUSG00000068122	7.46	1.38
Fras1	4.3	7.3E-14	ENSMUSG00000034687	9.69	1.80
Dusp4	4.3	3.2E-29	ENSMUSG00000031530	20.67	3.72
Frem1	4.3	3.2E-08	ENSMUSG00000059049	2.28	0.42
Kitl	4.3	3.5E-23	ENSMUSG00000019966	19.30	3.60
Abcc4	4.2	9.6E-33	ENSMUSG00000032849	20.38	3.78
Clec11a	4.2	1.4E-12	ENSMUSG00000004473	3.71	0.69
Crb1	4.2	6.6E-12	ENSMUSG00000063681	2.40	0.44
Slc4a5	4.2	1.6E-04	ENSMUSG00000068323	8.44	1.61
Sema3c	4.2	3.0E-04	ENSMUSG00000028780	2.74	0.51
Fam46a	4.2	2.0E-09	ENSMUSG00000032265	4.50	0.84
Ndnf	4.1	2.2E-16	ENSMUSG00000049001	13.13	2.53

feature ID	fold change	FDR Pvalue	ensembl gene id	Prox1 mean RPKM	C57 mean RPKM
Fam46a	4.2	2.0E-09	ENSMUSG00000032265	4.50	0.84
Ndnf	4.1	2.2E-16	ENSMUSG00000049001	13.13	2.53
Papss2	4.1	4.1E-12	ENSMUSG00000024899	4.68	0.90
Hist1h1b	4.1	1.6E-02	ENSMUSG00000058773	7.35	1.44
Asic2	4.1	6.3E-12	ENSMUSG00000020704	2.55	0.49
Spp1	4.0	6.5E-08	ENSMUSG00000029304	10.54	2.03
Kdelr3	4.0	4.3E-08	ENSMUSG00000010830	6.36	1.24
Osr2	4.0	3.1E-02	ENSMUSG00000022330	2.86	0.57
Postn	3.9	1.1E-04	ENSMUSG00000027750	8.06	1.63
Dab2	3.9	2.6E-21	ENSMUSG00000022150	12.26	2.48
Npr3	3.9	3.8E-15	ENSMUSG00000022206	13.31	2.74
Clec14a	3.9	3.1E-25	ENSMUSG00000045930	12.31	2.49
Tspan10	3.8	1.1E-05	ENSMUSG00000039691	10.15	2.10
Fbln5	3.8	2.3E-03	ENSMUSG00000021186	3.14	0.65
Col6a1	3.8	1.4E-04	ENSMUSG00000001119	17.74	3.68
Aqp4	3.8	1.1E-11	ENSMUSG00000024411	2.65	0.54
Acta2	3.8	1.6E-29	ENSMUSG00000035783	20.86	4.27
Lpcat2	3.8	9.0E-12	ENSMUSG00000033192	2.79	0.58
Col16a1	3.8	2.2E-04	ENSMUSG00000040690	3.22	0.68
Dcn	3.7	2.9E-05	ENSMUSG00000019929	37.46	7.82
Col6a2	3.7	3.8E-04	ENSMUSG00000020241	9.32	1.98
Pmel	3.7	3.0E-04	ENSMUSG00000025359	126.72	27.29
Col1a2	3.7	3.6E-05	ENSMUSG00000029661	49.37	10.60
Apoc1	3.7	9.0E-04	ENSMUSG00000040564	2.22	0.45
Wnt6	3.7	4.1E-02	ENSMUSG00000033227	3.12	0.69
Kctd12b	3.7	3.2E-21	ENSMUSG00000041633	13.89	3.00
Tnik	3.7	1.1E-25	ENSMUSG00000027692	3.83	0.81
Tgfbi	3.6	5.7E-05	ENSMUSG00000035493	9.09	1.99
Gli1	3.6	5.6E-09	ENSMUSG00000025407	7.53	1.62
Enc1	3.6	1.6E-30	ENSMUSG00000041773	22.17	4.83
Slc7a7	3.6	2.2E-24	ENSMUSG00000000958	26.13	5.62
Pipox	3.6	8.8E-10	ENSMUSG00000017453	5.95	1.27
Gpnmb	3.6	8.0E-05	ENSMUSG00000029816	16.18	3.59
Slc24a5	3.6	2.1E-04	ENSMUSG00000035183	4.03	0.89
Trp53i11	3.6	3.1E-21	ENSMUSG00000068735	28.17	6.25
Tyrp1	3.5	3.9E-04	ENSMUSG00000005994	16.22	3.65
Slc6a11	3.5	4.5E-20	ENSMUSG00000030307	11.66	2.53
Zfhx3	3.5	8.6E-07	ENSMUSG00000038872	12.64	2.88
Fat3	3.5	1.1E-11	ENSMUSG00000074505	10.32	2.32
Fst	3.5	5.9E-09	ENSMUSG00000021765	8.80	1.98
Lrrn2	3.5	1.2E-15	ENSMUSG00000026443	5.71	1.27
Pex5l	3.5	1.2E-13	ENSMUSG00000027674	2.40	0.54
Cpa3	3.5	6.7E-05	ENSMUSG00000001865	4.20	0.95
Igfbp2	3.5	2.4E-15	ENSMUSG00000039323	118.60	26.93
Steap4	3.5	2.2E-07	ENSMUSG00000012428	4.25	0.96
Wisp1	3.5	4.8E-03	ENSMUSG00000005124	2.08	0.48
Rab32	3.4	4.9E-12	ENSMUSG00000019832	9.94	2.26
Jam2	3.4	5.2E-35	ENSMUSG00000053062	9.86	2.24
Zfp462	3.4	2.9E-14	ENSMUSG00000060206	20.46	4.80
Edaradd	3.4	9.5E-19	ENSMUSG00000095105	11.46	2.63
Dct	3.4	3.8E-04	ENSMUSG00000022129	43.86	10.43
Slc45a2	3.4	7.6E-04	ENSMUSG00000022243	2.58	0.61
Cacna1g	3.4	1.7E-04	ENSMUSG00000020866	3.77	0.90
Tmem144	3.4	6.8E-07	ENSMUSG00000027956	2.56	0.60
Bace2	3.3	1.3E-04	ENSMUSG00000040605	3.51	0.83
Plxnc1	3.3	2.1E-17	ENSMUSG00000074785	7.03	1.67
Hs3st5	3.3	3.2E-12	ENSMUSG00000044499	2.48	0.58
Col8a2	3.3	2.1E-04	ENSMUSG00000056174	15.05	3.61
Creb3l1	3.3	4.8E-04	ENSMUSG00000027230	3.89	0.93
Tmem169	3.3	7.7E-09	ENSMUSG00000026188	2.61	0.62
Frk	3.3	8.6E-07	ENSMUSG00000019779	2.20	0.52
Nid2	3.3	4.7E-17	ENSMUSG00000021806	42.06	10.28
Pqlc2	3.3	1.1E-14	ENSMUSG00000028744	5.50	1.32
Aass	3.3	2.7E-09	ENSMUSG00000029695	3.16	0.77
Igsf3	3.2	6.5E-26	ENSMUSG00000042035	22.18	5.36
Mlana	3.2	4.5E-05	ENSMUSG00000024806	16.25	3.97
Krt19	3.2	1.4E-03	ENSMUSG00000020911	2.77	0.67
Pdgfrl	3.2	9.9E-06	ENSMUSG00000031595	2.27	0.54
4932443I19Rik	3.2	7.5E-05	ENSMUSG00000090336	2.78	0.68
Myof	3.2	3.0E-05	ENSMUSG00000048612	2.12	0.52
Sfrp2	3.2	2.3E-16	ENSMUSG00000027996	662.84	164.28
2010107G23Rik	3.2	2.3E-15	ENSMUSG00000020083	8.35	2.06
Satb2	3.2	5.3E-11	ENSMUSG00000038331	2.03	0.50
Cdh3	3.2	1.9E-04	ENSMUSG00000061048	6.39	1.61
Cacng4	3.2	1.4E-33	ENSMUSG00000020723	31.51	7.82
Prrx1	3.2	1.1E-04	ENSMUSG00000026586	5.04	1.28
Tmem35	3.1	2.0E-17	ENSMUSG00000033578	40.16	9.87
Fjx1	3.1	6.5E-30	ENSMUSG00000075012	29.87	7.43
Emp2	3.1	6.7E-10	ENSMUSG00000022505	2.83	0.71
Flnc	3.1	2.8E-04	ENSMUSG00000068699	3.75	0.98
Nfia	3.1	8.9E-06	ENSMUSG00000028565	4.13	1.07
Vcam1	3.1	1.5E-03	ENSMUSG00000027962	5.64	1.45
Mmp14	3.1	3.5E-20	ENSMUSG00000000957	62.64	16.14
Tril	3.1	1.8E-06	ENSMUSG00000043496	13.10	3.43
Anpep	3.1	6.4E-05	ENSMUSG00000039062	2.69	0.69
Sema3f	3.1	1.2E-22	ENSMUSG00000034684	20.57	5.28
Sncaip	3.1	6.1E-04	ENSMUSG00000024534	3.07	0.80
Egfem1	3.1	8.2E-21	ENSMUSG00000063600	20.82	5.31
Slc35d3	3.1	1.1E-04	ENSMUSG00000050473	2.21	0.56
Tmem119	3.1	9.7E-04	ENSMUSG00000054675	5.63	1.47
Lars2	3.1	6.0E-03	ENSMUSG00000035202	11537.92	3080.25
Pcdh9	3.1	5.5E-05	ENSMUSG00000055421	2.60	0.67
Tst	3.1	2.4E-18	ENSMUSG00000044986	24.53	6.29
Cd44	3.1	2.4E-03	ENSMUSG00000005087	2.66	0.69
Hs3st6	3.1	6.6E-07	ENSMUSG00000039628	6.10	1.58
Slc38a8	3.0	2.6E-03	ENSMUSG00000034224	21.71	5.79
Igf1	3.0	3.5E-05	ENSMUSG00000020053	4.18	1.12

feature ID	fold change	FDR Pvalue	ensembl gene id	Prox1 mean RPKM	C57 mean RPKM	feature ID	fold change	FDR Pvalue	ensembl gene id	Prox1 mean RPKM	C57 mean RPKM
Col13a1	3.0	4.9E-38	ENSMUSG00000058806	21.61	5.55	Maml2	2.7	4.5E-19	ENSMUSG00000031925	16.26	4.73
Col9a2	3.0	5.4E-14	ENSMUSG00000028626	28.97	7.50	Col3a1	2.7	7.8E-04	ENSMUSG00000026043	46.23	13.96
Lpl	3.0	1.0E-25	ENSMUSG00000015568	13.47	3.52	Smim24	2.7	1.6E-03	ENSMUSG00000078439	2.92	0.86
Ldhb	3.0	2.0E-18	ENSMUSG00000030246	81.89	21.44	Stbd1	2.7	2.7E-08	ENSMUSG00000047963	6.27	1.83
Vash2	3.0	7.3E-28	ENSMUSG00000037568	25.76	6.77	Sepp1	2.7	2.3E-11	ENSMUSG00000064373	62.12	18.56
Dnm1	3.0	6.3E-04	ENSMUSG00000026825	3.74	1.00	Nupr1	2.7	2.2E-11	ENSMUSG00000030717	116.88	33.45
Col25a1	3.0	1.0E-04	ENSMUSG00000058897	2.06	0.55	Rnf165	2.7	1.9E-17	ENSMUSG00000025427	13.72	4.03
Cxcl12	3.0	2.2E-03	ENSMUSG00000061353	4.66	1.28	Sertad4	2.7	2.0E-03	ENSMUSG00000016262	3.32	0.99
Thbs2	3.0	2.9E-04	ENSMUSG00000023885	3.84	1.01	Lama4	2.7	1.6E-09	ENSMUSG00000019846	13.31	4.01
Car14	3.0	3.6E-16	ENSMUSG00000038526	35.73	9.55	Prkcb	2.7	3.0E-06	ENSMUSG00000052889	2.59	0.76
Lum	3.0	6.2E-05	ENSMUSG00000036446	75.36	20.41	Sh3pxd2a	2.7	9.7E-08	ENSMUSG00000053617	15.55	4.66
Calml3	2.9	9.9E-03	ENSMUSG00000063130	3.47	0.94	Irx5	2.6	4.8E-03	ENSMUSG00000031737	2.93	0.86
Egfr	2.9	8.0E-04	ENSMUSG00000020122	2.80	0.77	Hif3a	2.6	3.1E-10	ENSMUSG00000004328	7.63	2.26
Nes	2.9	5.1E-24	ENSMUSG00000004891	124.95	33.66	Slc1a3	2.6	3.1E-08	ENSMUSG00000005360	6.45	1.92
Cd83	2.9	5.5E-06	ENSMUSG00000015396	3.53	0.94	Creb3l2	2.6	9.4E-15	ENSMUSG00000038648	27.83	8.35
Rgma	2.9	1.8E-10	ENSMUSG00000070509	6.91	1.86	Akr1b10	2.6	1.7E-05	ENSMUSG00000061758	2.06	0.62
Mt2	2.9	3.1E-04	ENSMUSG00000031762	5.68	1.52	Ntf3	2.6	2.4E-03	ENSMUSG00000049107	3.96	1.17
Gm26917	2.9	4.8E-03	ENSMUSG00000097971	4097.06	1152.77	Fez1	2.6	2.9E-17	ENSMUSG00000032118	16.29	4.87
Dkk2	2.9	7.5E-04	ENSMUSG00000028031	24.01	6.61	Efemp1	2.6	4.1E-04	ENSMUSG00000020467	11.52	3.47
Ror2	2.9	2.2E-05	ENSMUSG00000021464	3.52	0.97	Slc9a3r1	2.6	2.7E-11	ENSMUSG00000020733	28.26	8.55
5730559C18Rik	2.9	5.6E-07	ENSMUSG00000041605	5.89	1.63	Prom1	2.6	5.3E-16	ENSMUSG00000029086	23.87	7.23
Pla2g4a	2.9	6.7E-27	ENSMUSG00000056220	7.70	2.09	Dok1	2.6	2.3E-09	ENSMUSG00000068335	8.51	2.57
2700069I18Rik	2.9	2.6E-05	ENSMUSG00000086224	3.38	0.93	Apod	2.6	7.5E-04	ENSMUSG00000022548	2.39	0.72
Mid2	2.9	5.7E-10	ENSMUSG00000000266	3.29	0.90	Dgkh	2.6	1.2E-03	ENSMUSG00000034731	2.33	0.70
Krt18	2.8	1.3E-05	ENSMUSG00000023043	21.26	6.01	Itpr3	2.6	1.8E-05	ENSMUSG00000042644	2.70	0.83
AY036118	2.8	7.7E-03	ENSMUSG00000045999	175.12	50.59	Jph2	2.6	2.1E-09	ENSMUSG00000017817	4.07	1.23
Rbm20	2.8	2.9E-08	ENSMUSG00000043639	2.16	0.60	Lingo1	2.6	8.9E-11	ENSMUSG00000049556	4.10	1.24
Bdh2	2.8	2.8E-05	ENSMUSG00000028167	10.74	3.02	Cryl1	2.6	2.4E-05	ENSMUSG00000021947	3.49	1.05
Fam101b	2.8	4.3E-20	ENSMUSG00000020846	16.16	4.52	Gm4524	2.6	1.0E-12	ENSMUSG00000090257	16.01	4.81
Chd3	2.8	1.5E-10	ENSMUSG00000018474	27.76	7.93	Mtcl1	2.6	4.2E-20	ENSMUSG00000052105	22.25	6.82
Gm14236	2.8	9.7E-03	ENSMUSG00000086411	207.37	60.61	Olfml3	2.6	1.8E-10	ENSMUSG00000027848	30.96	9.23
Mreg	2.8	8.7E-07	ENSMUSG00000039395	3.57	1.01	Crabp2	2.6	7.1E-06	ENSMUSG00000004885	99.87	30.97
Ddr2	2.8	3.0E-04	ENSMUSG00000026674	5.51	1.59	Adam19	2.6	7.0E-04	ENSMUSG00000011256	2.88	0.91
Ntrk2	2.8	3.0E-14	ENSMUSG00000055254	9.05	2.54	Anxa2	2.5	1.3E-12	ENSMUSG00000032231	33.43	10.37
Olfml1	2.8	4.2E-02	ENSMUSG00000051041	2.42	0.70	Slc6a15	2.5	8.6E-04	ENSMUSG00000019894	17.03	5.32
S100a1	2.8	1.5E-06	ENSMUSG00000044080	8.40	2.39	Clmp	2.5	3.6E-09	ENSMUSG00000032024	7.36	2.29
C230034O21Rik	2.8	3.5E-02	ENSMUSG00000086181	2.77	0.78	Sparcl1	2.5	4.5E-14	ENSMUSG00000029309	57.05	17.89
Tenm4	2.7	8.5E-05	ENSMUSG00000048078	8.47	2.46	Fbln2	2.5	8.9E-04	ENSMUSG00000064080	6.29	1.98
Dmp1	2.7	2.5E-02	ENSMUSG00000029307	22.74	6.84	Col11a1	2.5	3.3E-03	ENSMUSG00000027966	6.04	1.92
Ccdc177	2.7	2.5E-09	ENSMUSG00000062961	2.95	0.85	Paqr4	2.5	8.3E-08	ENSMUSG00000023909	6.13	1.91
Sall2	2.7	2.8E-18	ENSMUSG00000049532	43.54	12.57	Optc	2.5	3.6E-02	ENSMUSG00000010311	6.11	1.85
Gzmm	2.7	1.5E-03	ENSMUSG00000054206	2.93	0.84	Clip1	2.5	6.1E-16	ENSMUSG00000049550	12.94	4.08
Rab27a	2.7	1.8E-04	ENSMUSG00000032202	5.86	1.72	Shank1	2.5	6.7E-08	ENSMUSG00000038738	4.81	1.51
Antxr1	2.7	1.1E-24	ENSMUSG00000033420	67.56	19.41	Fzd8	2.5	1.5E-07	ENSMUSG00000036904	4.12	1.30
Twist1	2.7	1.2E-02	ENSMUSG00000035799	10.59	3.10	Trib2	2.5	1.1E-23	ENSMUSG00000020601	22.21	6.98
Cdo1	2.7	5.1E-07	ENSMUSG00000033022	12.86	3.72						