

**Table S3.** Genes upregulated or downregulated by *Klf5* deletion in more than one type of tissue. Upregulation in a tissue is indicated by "Up" or a positive fold change number, while downregulation is indicated by "Down" or a negative fold change number. Data for cornea, villus and bladder were from published studies (Ref. 41, 35 and 33).

Gene symbol	RefSeq	<i>Pten</i> -null Prostate	Cornea	Villus	Bladder
Tgm1	NM_001161715	-1.77	Up		Up
Sprr1a	NM_009264	-1.57	Up	Down	Down
Reep6	NM_139292	-2.26	Down	Down	Down
Dgat2	NM_026384	-3.37	Down	Down	Down
Snx31	NM_025712	-1.58	Down		Down
Upk1b	NM_178924	-2.58	Down		Down
Gipc2	NM_016867	-1.55		Down	Down
Mboat1	NM_153546	-1.57		Down	Down
AA986860	NM_177604	-1.57		Down	Down
Pof1b	NM_181579	-1.68		Down	Down
Ppl	NM_008909	-1.72		Down	Down
Mgat4a	ENSMUST00000042161	-1.74		Down	Down
Tjp3	NM_013769	-1.76		Down	Down
Degs2	NM_027299	-1.77		Down	Down
S100a6	NM_011313	-1.85		Down	Down
Camk1d	NM_177343	-1.95		Down	Down
Tacstd2	NM_020047	-2.09		Down	Down
Pparg	NM_001127330	-2.32		Down	Down
Sh2d4a	NM_028182	-2.46		Down	Down
Lass3	NM_001164201	-2.64		Down	Down
Elf3	NM_001163131	-3.24		Down	Down
Acsm3	NM_016870	-3.46		Down	Down
Plip	NM_026385	-3.68		Down	Down
Tspan8	NM_146010	-9.67		Down	Down
Spink5	NM_001081180	4.58	Up		
Cpn1	NM_030703	4.08	Up		
Hdac9	NM_024124	3.03	Up		
Arg1	NM_007482	2.72	Up		
Arg2	NM_009705	2.44	Up		
Ppbb	NM_023785	2.34	Up		
Steap1	NM_027399	2.19	Up		
Cntnap2	NM_001004357	2.08	Up		
Olr1	NM_138648	1.96	Up		
Steap4	ENSMUST00000115421	1.95	Up		
Kcnn4	NM_008433	1.95	Up		

Adamts4	ENSMUST00000006570	1.81	Up
Pilra	NM_153510	1.81	Up
Mmp8	NM_008611	1.78	Up
Grb14	NM_016719	1.74	Up
Trem3	NM_021407	1.73	Up
Slco2a1	NM_033314	1.63	Up
Igsf6	NM_030691	1.63	Up
Hdc	NM_008230	1.62	Up
Pgf	NM_008827	1.62	Up
Ccl2	NM_011333	1.51	Up
Tlr13	NM_205820	1.51	Up
Csf2rb	NM_007780	-1.50	Up
Lgals3bp	NM_011150	-1.50	Up
Stard5	NM_023377	-1.52	Up
Tnfaip2	NM_009396	-1.52	Up
Pcbp3	NM_021568	-1.52	Up
Lmo1	NM_057173	-1.53	Up
Kctd14	NM_001012434	-1.53	Up
Irx1	NM_010573	-1.53	Up
Socs2	NM_007706	-1.54	Up
Ms4a7	ENSMUST00000025574	-1.54	Up
Csf3r	NM_007782	-1.55	Up
Mbp	NM_010777	-1.55	Up
Anxa3	NM_013470	-1.55	Up
Irs1	NM_010570	-1.55	Up
Adamts13	NM_001190374	-1.55	Up
Slc11a1	NM_013612	-1.57	Up
Fcgr4	NM_144559	-1.57	Up
Pdgfb	NM_011057	-1.57	Up
Mfap5	NM_015776	-1.59	Up
Eya2	ENSMUST00000063433	-1.59	Up
Adamts9	NM_175314	-1.59	Up
Fam167a	NM_177628	-1.60	Up
S100a8	NM_013650	-1.60	Up
Sdcbp2	NM_145535	-1.61	Up
Hmcn1	NM_001024720	-1.62	Up
Glis3	NM_175459	-1.62	Up
Ctsk	NM_007802	-1.62	Up
Hmcn1	NM_001024720	-1.62	Up
Fblim1	ENSMUST00000006381	-1.62	Up
Cp	NM_001042611	-1.63	Up
Pmaip1	NM_021451	-1.63	Up
Mt1	NM_013602	-1.64	Up

Cd300ld	NM_145437	-1.64	Up
Ap1s2	NM_026887	-1.64	Up
Sftpd	NM_009160	-1.64	Up
Itgax	NM_021334	-1.65	Up
Synm	NM_201639	-1.65	Up
Cxcl1	NM_008176	-1.65	Up
Chst11	NM_021439	-1.65	Up
Lyz2	NM_017372	-1.65	Up
Rad5111	NM_009014	-1.65	Up
Clic6	NM_172469	-1.66	Up
Sulf2	ENSMUST00000109249	-1.66	Up
Cntn1	NM_007727	-1.66	Up
Noxo1	NM_027988	-1.68	Up
Ctsz	NM_022325	-1.69	Up
Adm	NM_009627	-1.70	Up
Gpx3	NM_008161	-1.70	Up
Il1b	NM_008361	-1.71	Up
Flt1	NM_010228	-1.74	Up
Xdh	NM_011723	-1.74	Up
Clec7a	NM_020008	-1.74	Up
Timp1	NM_001044384	-1.75	Up
Smoc2	NM_022315	-1.78	Up
Crym	NM_016669	-1.78	Up
Soat1	NM_009230	-1.79	Up
Ppp2r2b	NM_028392	-1.80	Up
Vcam1	NM_011693	-1.82	Up
Apol7a	NM_029419	-1.83	Up
Lox	NM_010728	-1.83	Up
Selp	NM_011347	-1.84	Up
Crabp2	NM_007759	-1.84	Up
Trem1	NM_021406	-1.85	Up
Thbs2	NM_011581	-1.87	Up
Gzmb	NM_013542	-1.87	Up
Kcne4	NM_021342	-1.88	Up
Serpina3n	NM_009252	-1.88	Up
Retnla	NM_020509	-1.89	Up
Clec4d	NM_010819	-1.90	Up
Fam132a	NM_026125	-1.90	Up
Gjal	NM_010288	-1.91	Up
St3gal4	NM_009178	-1.93	Up
Il1a	NM_010554	-1.93	Up
Qsox1	NM_001024945	-1.95	Up
Casp1	ENSMUST00000027015	-2.01	Up

Cd14	NM_009841	-2.02	Up
Fbn1	ENSMUST00000103234	-2.08	Up
Filip11	NM_001040397	-2.09	Up
Tnc	NM_011607	-2.09	Up
Slc6a2	NM_009209	-2.10	Up
Gabrp	NM_146017	-2.10	Up
Pla1a	NM_134102	-2.11	Up
Tnfsf10	NM_009425	-2.12	Up
Clec4e	NM_019948	-2.14	Up
Clec4n	NM_020001	-2.14	Up
Adra2a	NM_007417	-2.20	Up
Trf	NM_133977	-2.23	Up
Sestd1	NM_175465	-2.30	Up
Tspan2	ENSMUST00000029451	-2.32	Up
Adam28	NM_010082	-2.42	Up
Rgs5	ENSMUST00000027997	-2.46	Up
S1pr3	NM_010101	-2.49	Up
Spon1	NM_145584	-2.49	Up
Slc26a4	NM_011867	-2.56	Up
Krt23	NM_033373	-2.60	Up
Angptl2	NM_011923	-2.61	Up
Fam55d	ENSMUST00000093853	-2.61	Up
Ccnd2	NM_009829	-2.62	Up
Reg3g	NM_011260	-2.63	Up
Gprc5a	NM_181444	-2.67	Up
Cyp2f2	NM_007817	-2.74	Up
Plod2	NM_001142916	-2.74	Up
Mcoln2	NM_026656	-2.99	Up
Mecom	ENSMUST00000108271	-3.18	Up
Mmp13	ENSMUST00000015394	-3.18	Up
Mecom	NM_021442	-3.26	Up
Chi3l1	NM_007695	-3.32	Up
Clca2	NM_030601	-3.46	Up
Gsdmc	NM_031378	-3.50	Up
Adh6a	NM_026945	-3.98	Up
Atp2a3	NM_016745	-4.10	Up
Spp1	NM_001204233	-4.22	Up
Ctse	NM_007799	-4.52	Up
Mmp12	NM_008605	-4.96	Up
Ptges	NM_022415	-5.02	Up
Ttr	NM_013697	-5.05	Up
Ltf	NM_008522	-5.80	Up
Aspa	NM_023113	-6.20	Up

Cadps	NM_012061	-6.69	Up
Slco1a5	NM_001267707	-6.90	Up
Ptprz1	ENSMUST00000090568	-8.35	Up
Gp2	NM_025989	-10.19	Up
Psca	NM_028216	-19.63	Up
Olfm4	NM_001030294	-19.63	Up
Ppp1r3c	ENSMUST00000087321	4.07	Down
Rasl11b	NM_026878	3.09	Down
Egf	NM_010113	2.97	Down
Papss2	NM_011864	2.64	Down
Aldh1a1	NM_013467	2.32	Down
Stc2	NM_011491	2.17	Down
Ednrb	NM_007904	2.15	Down
Fah	NM_010176	2.15	Down
Bok	NM_016778	1.96	Down
Aldh6a1	NM_134042	1.94	Down
Ttc7b	NM_001033213	1.86	Down
Sfrp1	NM_013834	1.85	Down
Slc16a12	NM_172838	1.84	Down
Prom2	ENSMUST00000028855	1.77	Down
Pm20d1	NM_178079	1.70	Down
Slc19a2	NM_054087	1.70	Down
Trpm3	ENSMUST00000112704	1.62	Down
Cd40	NR_027852	1.61	Down
Crlf1	NM_018827	1.60	Down
Rasgrf1	NM_011245	1.59	Down
Fabp6	ENSMUST00000020672	-1.54	Down
Hmgcs1	NM_145942	-1.58	Down
Acs11	NM_007981	-1.58	Down
Slc25a10	NM_013770	-1.58	Down
Krt78	NM_212487	-1.61	Down
Myh14	NM_028021	-1.63	Down
Rassf7	NM_025886	-1.67	Down
Clic3	NM_027085	-1.68	Down
Npy2r	NM_008731	-1.68	Down
Ppfibp2	NM_008905	-1.73	Down
Ndn	NM_010882	-1.74	Down
Cdo1	NM_033037	-1.77	Down
F3	NM_010171	-1.90	Down
Lynx1	NM_011838	-1.94	Down
Glde	NM_138595	-1.99	Down
Omp	NM_011010	-2.00	Down
Tst	NM_009437	-2.01	Down

Homer2	NM_011983	-2.03	Down
Klf5	NM_009769	-2.11	Down
Clip4	NM_030179	-2.14	Down
Sema3c	NM_013657	-2.15	Down
Nrxn1	NM_020252	-2.19	Down
Lrrc26	NM_146117	-2.19	Down
Ano9	NM_178381	-2.19	Down
Rapgef11	NM_001080925	-2.19	Down
Galnt4	NM_015737	-2.29	Down
Cmb1	NM_181588	-2.32	Down
Sh3gl2	NM_019535	-2.46	Down
Npnt	NM_033525	-2.50	Down
Gsta3	NM_001077353	-2.89	Down
Mgat3	NM_010795	-3.42	Down
Ripply3	NM_133229	-3.48	Down

Down

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