

## Supplementary Table S1

### genes whose expression was modulated by Cnots and/or Trim28

down-regulated genes			up-regulated genes		
Trim28 only <105>	Cnots and Trim28 <211>	Cnots only <341>	Trim28 only <95>	Cnots and Trim28 <96>	Cnots only <110>
2610024D14Rik	1110032F04Rik	1110032A04Rik	1700007L15Rik /// LOC100502742	1700042O10Rik	1700109F18Rik
3110007F17Rik	1700029J07Rik	1700048O20Rik	2310076G05Rik	1810014B01Rik	2010001M09Rik
4931406C07Rik	1810019J16Rik	2010300C02Rik	2810430I11Rik	1810063B07Rik	2210404J11Rik
6330408A02Rik	2010107G23Rik	2210012G02Rik	4932425I24Rik	2410002O22Rik	3110002H16Rik
6430573F11Rik	2310011E23Rik	2310046K01Rik	A530047J11Rik	2610300M13Rik	4930519F16Rik
8030474K03Rik	2610528A11Rik	2310057J16Rik	Adcy2	2610305D13Rik	6030446N20Rik
A030009H04Rik	2900072G11Rik	2410007B07Rik	Adh7	4732490B19Rik	A930004D18Rik
Aass	4632428N05Rik	2510009E07Rik	Al848100	4921509J17Rik ///	Actn1
Adck3	4930506M07Rik	2810432L12Rik	Aknad1	A730082K24Rik	Ada
Agpl3	4930523C07Rik	2810468N07Rik	Ammecr1	Aadat	Adam23
Al845619	6330403K07Rik	2900022M07Rik	Aoah	Acpp	Adamts7
Aldoc	A330076H08Rik	2900092E17Rik ///	Apba1	Al448005	Ak1
Angel2	Adamts12	2900092N22Rik	Areg	Al662270	Akr1b8
Ankfy1	Adcy8	3110039M20Rik	Arhgap28	Al956758	Akr1c18
Apobec2	Adora2b	3830612M24	Arx	Ano4	Apobec3
Arhgap23	Adrbk2	4833406M21Rik	Asb7	Ap1s2	Atp6v1c1
Atf3	Aim2	5430421B17	Atp2b2	Arhgdib	BC005512 /// F630007L15Rik /// Gm6958
B930012P20Rik	Airn	5730446D14Rik /// LOC100503966	Bche	Arntl2	Bcl2l2
Bach2	Als2	5730492I20Rik	C030017B01Rik	Aspa	Ccdc158
BC037703	Amph	5830474E16Rik	C78859	BC066028	Cdc42ep1
Bmf	Ankrd34b	8030445P17Rik	Car3	Bdnf	Cdkn2c
Btg2	Ano9	8430427H17Rik	Cd36	Camk2d	Cldn11
Cbx4	Aqp3	9330118A15Rik	Chst11 /// Phactr1	Car13	Clec2i
Ccdc69	Arc	9430078K24Rik	Col3a1	Ccdc141	Clock
Cd68	Arg1	A130078K24Rik	Cst9	Cd34	Ctnnd2
Cdkn2a	Arhgef16	A730009E18Rik	Cul3	Cd80	D15Ert55e
Cdbl	Atp1a2	A730090H04Rik	D430030G11Rik	Cdh11	Diras2
Cnksr1	AU040829	Abca5	Dbc1	Cited1	Dmrtc2
Crip1	BC068157	Acsf6	Dgcr8	Cml3	Drd1a
Cspp1	Bcl11a	Adamts3	Ehf	Cryab	Drp2
Cyr61	Bcl11a /// LOC100503813	Aim11	Eif4e3	Cyrr1	DXErt242e
D730035F11Rik	Bmp5	Akna	Enpp3	Ddc	Ebf3
D930017J03Rik	Bzrap1	Aldh1a2	Fabp7	Dppa2	Eik3
D9Wsu90e	C130071C03Rik	Ank2	Fam122b	Enpp1	Ephx1
Dhcr24	C530008M17Rik	Anp32a	Flrt2	Exoc4	Eras
Dusp1	Cacnb2	Arhgap6	Flrt3	Fam154a	Fbxo2
Edn2	Camk2n1	Arhgap8	Gabra2	Fam159b	Gemin8
Egr1	Capsl	Armxc2	Gabrb3	Fam49a	Gigyf2
Egr2	Casp7	Armxc3	Gap43	Fcgr2b	Glod5
Egr3	Cbr2	Arrb1	Ggh	Fgf7	Gm10439 /// Gm15080 /// Gm15085 /// Gm15107 /// Gm15128
Eif2ak2	Cbx8	Aspscr1	Glpr2	Folr1	Gpr37
Elf1	Ccbe1	Atf7ip2	Gm13139	Foxd1	Gss
Emp1	Ccdc109b	Atp2a3	Gm5868 /// Slc10a4	G530011O06Rik	H2-Eb1
Epb4.1	Cd164I2	Atxn711	Gng3	Gm10482	Hccs
Espn	Cd302	AW551984	Gvin1	Gm14005	Hint3
F3	Cdc23	B4galnt2	H19	Gm8267	Hoxb13
Fam110a	Cdca7l	Bai2	Herc3	Gpr114	Hoxc4
Fam64a	Cdh10	Bai3	Hspa4l	Hba-a1 /// Hba-a2	Hoxd10
Fam69b	Cdh4	Basp1	Huwe1	Herc6	Hoxd13
Fus	Ceacam1	Bckdha	Ifitm6	Hist2h2be	Hoxd8
Gsdmd	Cfh	Bex1	Kctd12b	Hmgcll1	Hoxd9
Hist1h4a /// Hist1h4b /// Hist1h4f /// Hist1h4i /// Hist1h4m	Chrna7	Bex2	Kctd8	Hoxd4	Htra1
Hmgcs1	Cldn3	Bex4	Klf12	Il6	Ido1
Id3	Cldn4	Bhlhe22	Klf5	Il7	Il6ra
Ier5l	Cldn7	Bicd1	Klhdc10	Itga6	Inf2
Insig1	Cldn9	Bmp2	Ldb2	Jam2	Insc
Jun	Clip4	Bnc2	Lix1	Kcnk13	Kalrn
Kcnf1	Cox7a1	Bspry	Lrrc8d	Kpna7	Kif5b
Kcnu1	Crabp2	C030034E14Rik	Mansc1	Lama1	Krt13
Kit	Ctsf	C130057M05Rik	Mobp	Lifr	Laptm5
Klf2	Cttnbp2	C1ql3	Napb	Limch1	Loxl3

Klh10	Cyip2	C1qtnf2	Nat8l	Ln timer	Lpcat1
Klh8	Dmrt1	Cables1	Neo1	Ly6g6d	Lymr1
Klk1b22 /// Klk1b9	Dpyd	Cacna2d1	Nmnat2	Mbp	Mbtps2 /// Yy2
Krt17	Efcab1	Calcr1	Pcsk1	Msc	Mcam
Ldlr	Ehhadh	Calml4	Phactr1	Naprt1	Mcf2l
LOC74457	Enkur	Camk1d	Phgdh	Nat8	Mdfic
Macrodl	Epcam	Car2	Pla2g4a	Ncam1	Mfap3l
Mapk6	Evpl	Ccdc112	Pla2r1	Nexn	Mid1
Mrip	Fads6	Ccdc122	Pr12c2 /// Pr12c3 /// Pr12c4	Npm3 /// Npm3-ps1	Mreg
Mt1	Fam171a2	Ccdc91	Prss35	Nr0b1	Myof
Nek1	Fgf9	Ccnjl	Ptpn22	Nudt7	Npepl1
Neo1	Fhit	Cd99	Rab39b	Pak3	Nppb
Nfe2l3	Fhl1	Cdh1	Rbms3	Parvb	Nr5a2
Ninl	Flt1	Cdh9	Rhbdd1	Pdcl2	Ociad2
Nol3	Fndc1	Cdhr1	Rnf13	Pkp2	Olfm1
Nr4a2	Fosb	Cdkl2	Runx111	Pla2g7	Pax3
Phf21a	Foxa1	Cdon	Runx2	Prss41	Pdzm3
Ppil6	Foxg1	Ceacam1 /// Ceacam2	Sema3e	Rgs7	Pfn2
Prokr1	Foxj1	Cebpa	Sema6d	Riok3	Pid1
Pstpip2	Foxp2	Celsr1	Sgol2	Sdpr	Pld6
Rbm39	Fzd2	Chdh	Sgtb	Sectm1a	Plekha2
Rpp25	Galnt12	Chst2	Slc7a11	Serpine2	Plxdc2
Rsad2	Gas1	Ckmt1	Slc7a8	Sh3rf2	Podxl
Scn2a1	Gatm	Cmtm8	Slc9a2	Slc13a5	Ppp1r14a
Sh3bgr	Gcnt3	Cntln	Sox6	Slc5a9	Prdx4
Sh3gl2	Gcom1	Crb3	Spnb2	Stx11	Prps1
Slc46a1	Gfra1	Cryl1	St6gal2	Them5	Rbm12b
Smad6	Gli2	Csrp2	Sulf1	Tmprss5	Rbp1
Smad7	Glis3	Cxxc4	Taf9b	Trpc6	Rnf39
Spag9	Glr1b	Cyp4a10 /// Cyp4a31	Tcfap2d	Tshz3	Runx1
Spry3	Gm12606	D3Ertid751e	Tmem47	Tll13	Smurf1
Ssbp3	Gnai1	Dab1	Tspyl4	Ugt1a1 /// Ugt1a10 /// Ugt1a2 /// Ugt1a5 /// Ugt1a6a /// Ugt1a6b /// Ugt1a7c /// Ugt1a9	Srp54b
Tbc1d24	Gng13	Dach2	Tubb3	Vat1l	Steap4
Tfdp2	Gng4	Ddx43	Wdr37	Vnn1	Syap1
Tmem146	Grb7	Dennd5b		Zmat4	Syce2
Tmem191c	Heph	Dlx4			Tcfap2c
Tmtc2	Hoxa5	Doc2b			Tead4
Tob1	Ica1	Dock3			Tex15
Ube3a	Ifi2712a	Dusp4			Tm4sf1
Uhrf2	Igf1bp2	Ebf4			Tmem159
Zdhhc20	Igfbp2	Efnb1			Tmem2
Zfp286	Irs3	Efnb2			Tmem43
Zfp36	Irx3	Efs			Tnfsf11
Zfp768	Itgb7	Elmo3			Tspan12
	Katnal2	Elovl7			Ttyh2
	Kbtbd11	Emx2			Ube2m
	Kbtbd7	Eomes			Upp1
	Kcnd2	Epha4			Zfp365
	Kcnj8	Erdr1			Zrsr2
	Kcnk1	Esrp1			
	Kctd12	Exph5			
	Khdrbs3	Fam129a			
	Kif27	Fam19a4			
	Klf4	Fam20a			
	Klk1	Fam46a			
	Krt14	Fam84b			
	Krt20	Farp1			
	Krt8	Fbn1			
	Lad1	Fbxl7			
	Lgals9	Fert2			
	Lgi2	Fjx1			
	Lhx2	Fmn1			
	Lor	Fndc3c1			
	Lpar1	Foxc1			
	Lrrc31	Foxc2			
	Lypd2	Fras1			
	Mamdc2	Frem2			
	Map2k6	Frk			
	Mdga2	Fzd4			
	Micalcl	Gca			
	Mipol1	Gdf3			
	Mif1	Ggt1			
	Mmp16	Gjc1			
	Mmp2	Glcci1			

Mmp20	Gm11818
Msln	Gm15698
Mtss1	Gm347
Myo5c	Gm5089
Ncrna00086	Gm5124
Nefh	Gm5480
Nell1	Gpc3
Nfatc4	Gpr98
Nhsl2	Grb10
Nkx1-2	Gsx1
Npr3	Gtf2ird2
Nrk	Gypc
Nudt10	H1f0
P2rx3	H2-BI
Pabpc4l	Hhip
Pard3b	Hist3h2ba
Pax6	Homer2
Pcdh8	Hook1
Pclo	Hopx
Peli1	Hoxa3
Phlda2	Hs6st2
Phyhipl	Hsd17b11
Plbd1	Hspa12a
Ppl	Ifrd2
Ppp1r13b	Igf2r
Prkcb	Igfbp3
Prokr2	Igsf8
Prph	Il1rap
Ptprd	Ina
Ptpru	Inadl
Ptprz1	Iqsec3
Rab11fip4	Irf6
Rasa4	Irx5
Rasgef1b	Isl1
Rassf10	Itga3
Rassf6	Itga9
Rbm24	Kcnj9
Rfx2	Kcnt2
Rnf157	Kcnv1
Rsph4a	Klhl13
Sfn	Klhl22
Sfrp2	Klhl23
Six3	Klk8
Slain1	Krt19
Slc19a3	Kynu
Slc1a3	Lama3
Smarca1	Ldb2
Snca	Lect1
Sorl1	Leprel1
Sox3	Lgr5
Stx3	Lhx9
Stxbp6	LOC100038746
Susd4	LOC100502594
Syt14	Lonrf3
Tcea3	Lpar4
Tgfb2	Lphn2
Timp3	Lrch2
Tppp3	Lrmp
Trim25	Lrrc34
Tspan13	Lsr
Ucn3	Mal2
Ugt8a	Mall
Upk1b	Marveld3
Vav3	Mbnl3
Vill	Mctp2
W91776	Mdfi
Xist	Med1
Xylt2	Med12l
Zbtb12	Mef2c
Zcchc18	Meis2
Zcchc3	Mgat3
Zfp354b	Mgat4c
Zfp46	Mpdz
Zfp703	Mrc2
Zxda	Mtap2
	Myb
	Myh10
	Myo1g

Nap1l2
Narf
Nccrp1
Nppc
Nptx1
Nr3c1
Nrip1
Nts
Nudt11
Odz2
Odz3
Odz4
Onecut2
Park2
Parm1
Parp8
Parva
Pcbp3
Pcolce
Pcsk6
Pctp
Pde2a
Pdpm
Pex5l
Plac8
Plcg2
Plcl1
Plcl2
Plek2
Plekha6
Plekhg6
Pnma2
Pof1b
Pogk
Porcn
Ppbp
Ppp1r3b
Ppp2r3a
Prdm11
Prkca
Prkch
Psd3
Ptger4
Ptprg
Ptprm
Pycard
Rab25
Rab27a
Rab38
Rapgef5
Rarb
Rassf9
Rcbtb2
Rcn3
Ripk4
Rnf130
Rnf144a
Rragd
Rtn4rl2
Rundc3b
Runx3
Scarf2
Selenbp1
Sema5b
Sfrp1
Sh3d19
Sh3gl3
Six1
Slc16a2
Slc16a7
Slc35f1
Slc6a14
Slc6a15
Sliitrk4
Snap91
Sntg1
Sox4
Sox9

Spata13
Spint2
Spr1a
Spsb4
Srgap3
St6galnac2
Stat4
Stk39
Stx18
Synpo
Syt7
Tbx4
Tcf15
Tcf7
Tcfl5
Tchh
Thbs1
Tie1
Tmem176a
Tmem181a ///
Tmem181b-ps
Tmem56
Tnk1
Tnrc6c
Trim2
Trim44
Trim47
Trpc4
Tshz2
Tspan6
Ttc8
Tll11
Twist1
Ube2ql1
Unc13b
Unc5d
Vstm2a
Wdr41
Wfdc2
Wls
Zfx4
Zfp12
Zfp146
Zfp2
Zfp423
Zfp503
Zfp521
Zfp629
Zfp827
Zfp882
Zmiz1