

Supplemental table S5. List of the 722 significantly altered genes with relative fold change of expression between CNA and WT mice (Log₂ scale).

Gene	log₂(Fold change)
Ces3	-4.60
Emilin2	-2.66
Cenpf	-2.52
Efnb3	-2.50
Kcnj3	-2.48
Tmprss13	-2.36
Pla2g5	-2.30
Il15	-2.27
Car14	-2.26
Till1	-2.16
Entpd5	-2.12
Acsl6	-2.05
Rpl3l	-2.00
Slc38a4	-2.00
Egf	-1.86
Aqp7	-1.81
Pfkfb1	-1.81
Dhrs7c	-1.79
Apbb1	-1.79
Mif1	-1.78
Tnfaip8	-1.77
Asb15	-1.76
Car4	-1.76
A2bp1	-1.74
Phkg1	-1.74
Lingo3	-1.74
Tbc1d10c	-1.72
Amy1	-1.72
Mtr	-1.72
Dsg2	-1.71
Hnmt	-1.70
Lad1	-1.70
Myh6	-1.66
Maob	-1.66
Tmod4	-1.66
Lamb3	-1.64
Kcnd2	-1.62
Mpped2	-1.61
Wnk2	-1.58
Cadm4	-1.56
Cmtm8	-1.55
Slc16a7	-1.54
Slc2a12	-1.53

Kcnv2	-1.52
Acot1	-1.51
Whrn	-1.51
Gpt	-1.49
Ano10	-1.49
Lpin1	-1.49
Cish	-1.48
Ift81	-1.46
Cobll1	-1.44
Gstk1	-1.43
Ano4	-1.41
Dgat2	-1.40
Retnla	-1.40
Nt5dc2	-1.39
S1pr3	-1.39
Scn5a	-1.38
Ptgds	-1.38
Mmp15	-1.38
Npc1	-1.38
Bcl2l11	-1.38
Fabp4	-1.37
Cmb1	-1.36
Doc2g	-1.35
Slc7a1	-1.35
Vwc2	-1.34
Paqr9	-1.34
Acaa2	-1.34
Fbp2	-1.33
Mal	-1.33
Coro1c	-1.33
Cd300lg	-1.33
Asb14	-1.33
Pex11a	-1.32
Dsc2	-1.32
Fah	-1.32
Fndc5	-1.32
Ephb1	-1.31
Ryr2	-1.29
Mreg	-1.28
Kcne1	-1.28
Sord	-1.28
Camk2a	-1.26
Fkbp4	-1.26
Ucp3	-1.25
Rmnd1	-1.25
Prrg1	-1.25
Slc36a2	-1.25
Mdga1	-1.25

Cpeb3	-1.24
Apba3	-1.24
Fmn1	-1.24
Timp4	-1.22
Adra1b	-1.22
Ezr	-1.20
Gpr22	-1.20
Hamp	-1.20
Pde1c	-1.20
Gdap10	-1.20
Prei4	-1.20
Eepd1	-1.19
M6prbp1	-1.19
Obscn	-1.19
Hisppd1	-1.17
Vtn	-1.17
Nhsl1	-1.16
Crhr2	-1.16
Actr3b	-1.16
Agpat3	-1.15
Decr1	-1.15
Myo1b	-1.15
Hopx	-1.15
Hhatl	-1.14
Efemp1	-1.13
Hook1	-1.13
Nampt	-1.13
Myom2	-1.13
Adhfe1	-1.13
Yipf7	-1.12
Pde3a	-1.12
Syt7	-1.12
Psme1	-1.12
Plekhh1	-1.11
Impa2	-1.11
Celsr1	-1.11
Dci	-1.11
Ceacam1	-1.10
C1qtnf4	-1.10
Fdft1	-1.10
Abcc9	-1.09
Prepl	-1.09
Klhl23	-1.08
Htra1	-1.08
Pfkfb2	-1.08
Slc27a1	-1.08
Ccl11	-1.08
Egflam	-1.08

Gpr116	-1.07
Hlf	-1.07
Ung	-1.07
Gchfr	-1.07
Ccbl1	-1.06
Slc40a1	-1.06
Epas1	-1.06
Zfp30	-1.05
Nrp1	-1.05
Aldh5a1	-1.05
Dbh	-1.04
Rasgrp3	-1.03
Fgf13	-1.02
Rragd	-1.02
Rasgrp2	-1.01
Sod2	-1.01
Ogdh	-1.01
Slc9a2	-1.01
Mrgprh	-1.01
Opn4	-1.01
Pitpnc1	-1.01
Kdr	-1.01
Stk39	-1.01
Penk1	-1.01
Adamts7	-1.01
Pank1	-1.00
Itpr2	-1.00
Eno3	-1.00
Gnmt	-1.00
Stt3a	1.00
Spred1	1.00
Ankrd23	1.00
Sorbs2	1.00
Rab23	1.00
Cnpy4	1.00
Hr	1.00
Flt3l	1.01
Cpeb1	1.01
Slc25a36	1.01
Ccl12	1.01
Scpep1	1.01
Spcs3	1.01
Kif26b	1.01
Mpp7	1.01
Wdr17	1.01
Itgb1	1.01
Armcx2	1.01
Tuba1a	1.02

Slc1a1	1.02
Cacna2d1	1.02
Tyrobp	1.02
Pqlc3	1.02
Fxyd5	1.02
Fer1l3	1.02
Cobl	1.02
Col5a1	1.02
Acot9	1.02
Maff	1.02
Vcam1	1.02
C1r	1.02
Basp1	1.02
Myo5a	1.02
Rnd1	1.02
Atp8a2	1.03
Sh3bgrl	1.03
Zfp37	1.03
Hectd2	1.03
Msn	1.03
Atp6v1h	1.03
Dnm1	1.03
Ctss	1.03
Usp47	1.03
Fkbp7	1.03
Dact1	1.03
Sphk1	1.03
Tmed3	1.03
Zfp423	1.03
Pcgf6	1.04
Nudt18	1.04
Creb3l2	1.04
Gas5	1.04
Pdlim7	1.04
Peg3	1.04
Dzip1	1.05
Stxbp1	1.05
Atp6ap2	1.05
Sesn3	1.05
Hebp2	1.05
Marcks	1.05
Pftk1	1.06
Spsb4	1.06
Dact3	1.06
Apod	1.06
C1qb	1.06
Igfbp3	1.06
P2ry2	1.06

Bambi	1.06
Plekha4	1.06
Ccnd2	1.07
Tgfb2	1.07
Itm2a	1.07
Igsf3	1.07
Col4a5	1.07
Scarf2	1.07
P2rx7	1.08
Actn1	1.08
Emp3	1.08
Spg3a	1.08
Shisa4	1.08
Ckb	1.08
Smc4	1.08
Fads1	1.08
Ogn	1.08
Zfp354c	1.08
Akr1b8	1.08
Rasl11b	1.09
Pdpr	1.09
Id3	1.09
Ptprad2	1.09
Col6a2	1.09
Lnx1	1.09
Sucnr1	1.09
Kif5b	1.10
Popdc3	1.10
Scd1	1.10
Pscn	1.10
Anxa3	1.10
Mtap1b	1.10
Fmo5	1.10
Trf	1.10
Pde1a	1.11
Star	1.11
Thsd7a	1.11
Dclk1	1.11
Gadd45g	1.11
Nova1	1.11
Slc7a2	1.11
Mical2	1.11
Anxa5	1.12
Slc35a2	1.12
Matn2	1.12
Gulp1	1.12
Bdh1	1.12
Cdr2	1.12

Tmod2	1.12
Tmem176a	1.12
Tspo	1.12
A2m	1.12
Hrasls3	1.12
Rassf5	1.12
Anxa4	1.12
Vwa1	1.12
Arpc1b	1.13
Fzd1	1.13
Ccdc80	1.13
Sema3b	1.13
Zdhhc9	1.13
P2ry6	1.13
Mamdc2	1.13
Ptplb	1.13
Omd	1.13
Sumf1	1.14
Ace	1.14
Csf2ra	1.14
Pycr1	1.14
Sync	1.14
Irf6	1.14
Loxl3	1.14
Serping1	1.14
Ndr4	1.14
Icam1	1.14
Cnn3	1.15
Procr	1.15
Arid5a	1.15
Dusp6	1.15
Igfbp4	1.15
Nucb2	1.15
EG634650	1.15
Rab31	1.16
Hexb	1.16
Clec11a	1.16
Efhd2	1.16
Dbn1	1.16
Anxa2	1.16
Akap2	1.16
Vit	1.16
Bmx	1.16
Ttc8	1.16
Uchl1	1.16
Lyve1	1.16
Mtpn	1.16
Strn	1.17

Hsp90aa1	1.17
Cd55	1.17
Ckap4	1.17
Lgals1	1.17
Crem	1.17
Scd2	1.17
Snhg1	1.17
Hspa1l	1.17
Twist1	1.17
Fzd7	1.17
Npdc1	1.17
Plcb4	1.17
Dpep1	1.18
Sparc	1.18
Aff3	1.18
Nelf	1.18
Pkd2	1.18
Ddah1	1.18
Ppap2a	1.18
Nedd9	1.18
Phlda3	1.18
Plat	1.19
Laptm5	1.19
Cnksr1	1.20
Synpo2	1.20
Vat1	1.20
Snai2	1.20
Picalm	1.20
Robo1	1.20
Ephx1	1.20
Smad6	1.20
Dnm3os	1.20
Slitrk4	1.20
Ifrd1	1.20
Timp2	1.20
Cks2	1.20
Cald1	1.20
Eif1a	1.21
Atp13a3	1.21
Rab3il1	1.21
Thbs3	1.21
Cebpd	1.21
Slc1a3	1.21
Itgb5	1.22
Col6a1	1.22
Slc39a6	1.22
Spon2	1.22
Cotl1	1.23

Skil	1.23
Fat1	1.23
Ptgs2	1.23
Ccdc104	1.23
Adam9	1.23
Etv1	1.24
Scx	1.24
Ston1	1.24
Txndc5	1.24
B3galnt1	1.24
Mmp23	1.24
Cpne8	1.24
Scara3	1.24
Kank1	1.24
Cst3	1.24
Cks1b	1.24
Sln	1.25
Mgat4a	1.25
Clic5	1.25
Selm	1.25
Irs1	1.25
Col3a1	1.25
Vim	1.26
Zwint	1.26
Tgm2	1.26
Mark1	1.26
Serpine2	1.26
Ctla2b	1.26
Bdnf	1.27
Adamts12	1.27
Axl	1.27
Zscan18	1.27
Hip1	1.28
Comt1	1.28
Vkorc1	1.28
Lox	1.28
Itga9	1.28
Adamts2	1.28
Cyr61	1.29
Rnase4	1.29
Ptgfrn	1.29
Bace2	1.29
Gp1bb	1.29
Tsc22d1	1.29
Enah	1.30
Leprel2	1.30
Trps1	1.30
Rcn1	1.31

S100a10	1.31
Gdf15	1.31
Uck2	1.31
Odz3	1.32
Tspan17	1.32
B3gnt9	1.32
Plk2	1.32
Tmem119	1.32
Ereg	1.32
Fez2	1.32
Sh3d19	1.32
Kcnj14	1.32
Prkab2	1.32
Pcdh9	1.33
Rgs18	1.33
Naalad2	1.33
Mpa2l	1.33
Cspg4	1.33
Pdgfra	1.34
Lmna	1.35
Nrtn	1.35
Emilin1	1.35
Dpysl3	1.35
Fn1	1.35
Bmp4	1.35
Carhsp1	1.35
Nfkbiz	1.35
Fstl3	1.35
Krt80	1.36
Arfgap3	1.36
Ltbp3	1.36
Lpar1	1.37
S100a11	1.37
Apcdd1	1.37
Chsy1	1.37
Cyfip2	1.37
Kdelr3	1.37
Casp12	1.38
Ifi27	1.38
Pdgfc	1.38
Fzd2	1.39
Dmn	1.39
Bicc1	1.39
Endod1	1.40
Fbn1	1.40
Ahnak2	1.41
Fzd9	1.42
Lhfp	1.42

Lrp1	1.42
Col4a4	1.42
Ppm1e	1.43
Lum	1.43
Foxp2	1.43
Dzip3	1.43
Hpgd	1.43
Fbln5	1.43
Cacnb1	1.44
Reck	1.44
Ddef2	1.45
Nkd2	1.45
Soat1	1.45
Serpina3n	1.46
Ifi202b	1.47
F2r	1.47
Srpx2	1.47
Tlr4	1.47
Cd24a	1.48
P4ha1	1.48
Clca1	1.48
Prelp	1.49
Meig1	1.49
Eln	1.50
Il17d	1.50
Cygb	1.51
Otud1	1.51
Dap	1.51
Vasn	1.51
Ifit2	1.52
Mrc2	1.52
Tmem45a	1.52
Dsel	1.52
Ecm1	1.52
Nuak1	1.52
Cd9	1.52
Ass1	1.52
Ctsz	1.53
Tcf21	1.53
Stk32b	1.53
Tubb2b	1.53
Gpm6a	1.54
Fgl2	1.55
Gpnmb	1.55
Lrrcc1	1.55
Chn2	1.55
Pde10a	1.56
Pmepa1	1.56

Crispld2	1.56
Igfbp7	1.56
Gabra3	1.57
Mxra8	1.57
Enpp1	1.57
S100a4	1.57
Wif1	1.57
Pmp22	1.57
Fgf6	1.58
Kcnk2	1.58
Itgb1bp3	1.58
Kif5c	1.58
Olfml1	1.59
Hspa1a	1.59
Fbln1	1.60
Plvap	1.60
Col4a3	1.61
Mgat5b	1.61
Antxr1	1.62
Tll7	1.62
Ptger4	1.62
Etv5	1.62
Mmp2	1.62
Col14a1	1.62
Runx2	1.62
Dio2	1.62
Id2	1.62
Dynll1	1.63
Pcolce	1.63
Bcl2	1.63
Tmem158	1.64
Vcan	1.65
Col11a1	1.65
Gpm6b	1.65
Islr	1.65
Flrt2	1.65
Nupr1	1.66
Crispld1	1.66
Trim47	1.66
Lmcd1	1.67
Mxra7	1.67
Tmem195	1.67
Lrrc52	1.68
Slc5a3	1.68
Thbs1	1.68
Nbl1	1.69
Col1a1	1.71
Fhl1	1.71

Rcn3	1.71
Abat	1.72
Ctla2a	1.73
Acta2	1.73
Myoc	1.73
Svep1	1.73
Lhfp12	1.73
Reln	1.73
Capg	1.74
Ldlrad3	1.74
Fgfr1	1.75
S100a6	1.76
Col5a2	1.76
Pdgfr1	1.76
Tnnt1	1.77
Cd302	1.77
Crim1	1.77
Egr2	1.77
Il33	1.78
Fst	1.78
Prss23	1.79
Sfrp1	1.79
Cyp1b1	1.80
Csrp2	1.80
Tnfrsf12a	1.80
Iqgap2	1.81
Fbln2	1.82
Anxa1	1.82
Mmrn1	1.82
Synpo2l	1.83
Sertad4	1.84
Serpine1	1.86
Pcolce2	1.86
Hbegf	1.86
Colec12	1.86
Loxl1	1.86
Nppa	1.86
Amot	1.86
Cp	1.87
Krt18	1.87
Fmod	1.87
Cst6	1.88
Casc4	1.89
Aldh1a1	1.90
Mum1l1	1.90
Myh10	1.91
Dse	1.92
Cdh11	1.92

Frem1	1.93
Plagl1	1.93
Sulf1	1.94
Rab40b	1.94
Rcan1	1.94
Milt11	1.95
Qpct	1.96
Cnnm2	1.97
Rtn4	1.97
Myl9	1.98
Pdlim5	1.99
Col12a1	1.99
Myot	2.00
Ptgis	2.00
Pi16	2.01
Nox4	2.01
Prg4	2.01
Rpgr	2.02
Tmem100	2.02
Itih5	2.02
Tgfb1	2.03
Ptgr	2.03
Lbp	2.03
Wisp2	2.04
Nppb	2.04
Mgp	2.04
Col1a2	2.05
Bgn	2.05
Adcy7	2.05
Abra	2.05
Gpx3	2.06
Pak3	2.06
Pmm1	2.07
Nt5e	2.07
Tpbp	2.07
Serpinf1	2.08
Kcnq5	2.08
Olfml3	2.08
Plod2	2.13
Cfh	2.14
Hspa1b	2.16
Dct	2.16
Vwf	2.17
Vgll3	2.18
Fstl1	2.19
Mmp12	2.19
Ltbp2	2.20
Tubb2a	2.20

Pdlim2	2.21
Emp1	2.21
Col8a1	2.22
Cyt11	2.24
Igfbp6	2.25
Synpo	2.27
Igsf1	2.28
E430002G05Rik	2.29
Capn3	2.32
Lgals3	2.33
Nlrc3	2.42
Cd44	2.43
Dkk3	2.46
Pla2g4a	2.47
Frzb	2.47
Mfap5	2.50
Mfap4	2.52
Ror2	2.55
Grk5	2.61
Hmgn3	2.64
Id4	2.66
Sema3d	2.67
Gcnt1	2.67
Timp1	2.69
Casq1	2.73
Acta1	2.75
Comp	2.81
Edn3	2.82
Crif1	2.90
Meox1	2.94
Myl1	2.94
Egr3	2.98
Fxyd6	2.99
Col8a2	3.02
Chodl	3.05
Tgfb2	3.13
Npr3	3.18
Ptn	3.22
Shisa3	3.22
Aspn	3.23
Itgb1	3.27
Postn	3.29
Rbp1	3.30
Ctgf	3.30
Leprel1	3.33
Thbs4	3.35
Tgfb3	3.35
Dkk2	3.39

Spp1	3.52
Sfrp2	3.54
Ppp1r1c	3.65
Myh7	3.80
Tnmd	3.86
Cilp	4.35
Tpm2	4.55