Table S7: Classification of Protein-Coding Transcripts Altered in WTβ3 and/ or CAβ3 cells.

Downregulated transcripts are in red and upregulated transcripts are in black. Those transcripts that were either downregulated or upregulated in both cell lines are in bold. KEGG, DAVID Bioinformatics Resources, the Matrisome database and UniProt were used to classify the transcripts. The Miscellaneous Bio-annotation includes proteins that currently have no classification.

Bio-annotation	**# of Genes**	**Genes in WTβ3 Cells**	**# of Genes**	**Genes in CAβ3 Cells**
Enzymes (includes protein kinases and glycosyltransferases)	30	**PLCB1; CHAC1; MMP1;** HERC5; GALNT14; TIE1; PTPRN; CYP1B1 **QPRT; HUNK; CPA4; DTX1; GALNT18; HS3ST3B1; GALC; SMARCA2; ADCY1; GUCY1A1; RIMKLA; RET; SULF2;** B3GALNT1; ENPP4; CA9; PTGIS; CPS1; ATP8A2; QPCT; GALNT14	69	**PLCB1; CHAC1; MMP1;** PTGES; TENT5B; EYA2; PLEK2; ARHGAP24; SGIP1; TNFAIP3; CHST7; CHST6; PTPRO; ST6GALNAC5; MME; FA2H; DUSP5; SIK1; PDF; PCSK1; NUDT4B; EYA2; SPOCD1; PGBD5 **QPRT; HUNK; SULF2; CPA4; DTX1; GALNT18; HS3ST3B1; GALC; SMARCA2; ADCY1; GUCY1A1; RIMKLA; RET;** TLL1; USP51; DIO2; ABCB1; OAS2; NUDT11; PDE3A; KATNAL2; KYNU; DHRS2; EGLN3; CA4; DDO; ACADS; GUCY1A2; FGFR2; HPD; KSR2; CMPK2; OAS1; DTX4; SULF1; PRSS12; PTP4A3; PDE5A; CHDH; PDE8B; FGFR3; HR; CFI; ABAT; MEST
Membrane trafficking	13	**PLCB1**; **HCLS1**; **CCN3** **MCF2L**; **LINGO1**; **GIPC3**; **ITGB3**; **GAS7**; **RAPGEF4**; **A2M;** TBC1D8B; SH3GL2; ADGRB1	27	**PLCB1**; **HCLS1**; **CCN3**; SYTL3; RAB27B; PLEK2; SGIP1; NRP2; ARHGAP24; MSLN **RAPGEF4**; **GIPC3**; **A2M**; **MCF2L**; **LINGO1**; **ITGB3**; **GAS7**; SYT13; SRGAP3; DENND2D; ARHGAP22; DENND2C; DOC2B; AGAP2; EXPH5; SYT1
Transcription (includes transcription factors, nuclear receptors and	19	**KLF4**; **DDIT3**; **TBX18**; **ZNF704**; EBF1; EGR2; RUNX1T1; NUPR1 **ZNF677**; **ZC4H2**; **LMX1B**; **NPAS3**; **AR; ZNF793; ZNF69**;	57	**KLF4**; **DDIT3; TBX18**; **ZNF704**; FOSL1; SP140; MAFF; KLF2; BNC1; RELB; RFX8; EYA2; SPOCD1; LPXN **ZNF677; ZC4H2**; **LMX1B**; **NPAS3**; **ZNF793; ZNF69**; **ZNF117; AR; SMARCA2; MNX1**;

transcription machinery)		**ZNF117**; **SMARCA2; MNX1;** ZNF626		EBF1; ISL1; SOX5; HOXC9; STAT5A; LHX1; PAX6; ALX4; LHX2; EBF4; DMRTA1; HOXA13; ZIC5; DLX4; FOXS1; ZNF347; ZNF429; ZNF730; ZNF641; MYCL; TXNIP; MYOCD; ZNF467; ZNF391; ZNF667; RASL11A; PPARGC1A; USP51; RNASEL; EID3; RGMA; HR; ATF7;
Peptidases and inhibitors	11	**ABHD8**; **MMP1; TIMP3** **A2M**; **C4B**; **CPA4**; **PCSK1N**; CPS1; QPCT; ADGRB1; SERPINB9	19	**ABHD8**; **MMP1**; **TIMP3**; TNFAIP3; MME; SERPINE1; BIRC3; PCSK1 **A2M**; **C4B**; **CPA4**; **PCSK1N;** TLL1; USP51; C4A; PRSS12; ADGRL3; CFI; CPAMD8
Exosome	10	TCIRG1; ACTG2 **ITGB3**; **C4B**; **A2M;** SLC44A4; PLP1; TUBA4A; TC2N; CETP	19	PARVB; MBP; MME; RAB27B; SERPINE1; ANXA3; LPXN **ITGB3**; **C4B**; **A2M**; ABCB1; MARVELD2; CA4; C4A; HPD; EFNB1; IFITM1; CFI; CRYAB
Cell adhesion molecules	14	**NRCAM;** CDH11; PCDH20; JAM2 **PCDHB13**; **PCDHB16**; **ITGB3**; **PCDHB5**; **PCDHB12**; **PODXL2 PCDHB10;** PCDHGB3; PCDHGB1; TENM4	28	**NRCAM;** MSLN; CNTN3; VCAM1; PCDHGA6 **PCDHB13**; **PCDHB16**; **ITGB3**; **PCDHB5**; **PCDHB12**; **PODXL2; PCDHB10;** DCHS1; PCDH1; PCDHB11; IGDCC4; PCDH18; CDH6; PCDHB14; NCAM2; SNED1; ADGRL3; EFNB1; TRO; CD33; MARVELD2; FLRT3; LRFN5;
Cytoskeleton associated proteins	10	**HCLS1; MYH15**; ACTG2; MAP7 KIAA1211L (CRACD) **GAS7**; **LRRC6;** NHS; TUBA4A; ADAP2	16	**HCLS1; MYH15**; PARVB; VILL; MYBPH; LPXN **GAS7**; **LRRC6**; ANK3; TMSB15A; KATNAL2; INA; IQGAP2; SORBS1; ABLIM1; RFLNA
Extracellular Matrix Associated Proteins[1]	15	**MFAP2**; **MMP1; TNC; TIMP3** COL11A1; TIE1 **VSTM2L**; **SULF2; A2M; SRPX**; POSTN; EMILIN1; COL8A2; SERPINB9; SEMA5B;	29	**MFAP2**; **MMP1; TNC; TIMP3;** VEGFA; BMPER; SERPINE1; WNT7B; TNFAIP6; COL13A1; GREM1 **VSTM2L**; **SULF2**; **A2M; SRPX**; SEMA6D; MFAP4; FREM2; KAZALD1; SEMA6A;

				SEMA3D; TLL1; COL14A1; VWA5A; WNT8B; SULF1; ANGPT1; EMILIN3; SPOCK1
G-protein coupled receptors	6	**CMKLR1;** OPRD1; GPR1 **GPRC5C**; **GLP2R;** ADGRB1;	10	**CMKLR1;** HTR7 **GPRC5C**; **GLP2R**; SSTR2; S1PR5; ADRA2C; ADGRL3; ACKR1; GPR156;
Chromosome and associated proteins	6	**AUTS2**; **PPP2R2C**; **SMARCA2; H4C6 (HIST1H4F)**; TUBA4A; SPAG4	14	H2BC6 (HIST1H2BE); PGBD5 **AUTS2**; **PPP2R2C**; **SMARCA2; H4C6 (HIST1H4F)**; TSPYL5; USP51; SYCE2; DCDC2; PPP2R2B; HR; USH1G; H1-1(HIST1H1A)
Cytokine Interactions	7	**GDF15**; **IL18**; **CD70**; TNFSF9; GDNF **TRIL; BMP3**	22	**GDF15; IL18**; **CD70**; CSF3; INHBB; VEGFA; IL1B; IL11; LIF; CXCL1; CXCL2; CXCL3; CXCL5; CXCL8; TNFAIP3 **TRIL; BMP3**; ANGPT1; BMP4; TGFB2; EFNB1; TRAF3IP3
CD molecules	6	**CD70**; **EVI2A;** JAM2; IL21R **ITGB3;** CDCP1	17	**CD70**; **EVI2A;** KLRC2; MME; CD274; CDCP1; EVI2B; VCAM1 **ITGB3**; CD33; ABCB1; BST2; FGFR2; FGFR3; IFITM1; ACKR1; NGFR
Transporters	8	**ABCA8**; **C3orf18 (SLC35F6); PENK** **SLC22A17**; CETP; SLC7A8; SLC44A4; RBP7	17	**ABCA8**; **C3orf18 (SLC35F6); PENK;** MFSD2A **SLC22A17**; CNNM1; ABCB1; SLC7A14; TMEM63C; NKAIN1; SLCO5A1; SLC8A2; SLC29A3; IFITM1; ATCAY; SLC19A3; REEP1
Ubiquitin system	4	**TRIM6**; HERC5 **DTX1**; **KLHL13**	11	**TRIM6**; BIRC3; KCTD14; TNFAIP3; TRIML2 **DTX1; KLHL13;** USP51; DTX4; KBTBD11; ARRDC4
Protein phosphatases and associated proteins	3	PCDH20; PTPRN **PPP2R2C**	11	PTPRO; SPOCD1; PPP4R4; DUSP5; EYA2; SYTL3 **PPP2R2C;** SLC7A14; PCDH1; PTP4A3; PPP2R2B
Ion channels	5	KCNS3	15	**GRIN2A**; **KCNH2**; **TCAF2**; **FAM155B**; ANO1; ANO4; CACNA2D2; P2RX7; KCNT2;

		GRIN2A; **KCNH2; TCAF2**; **FAM155B**		KCNJ8; CHRNB2; SCN9A; CHRNA3; ITPR2; TSPAN13
Glycosaminoglycan binding proteins	2	**TNC**; COL11A1	13	**TNC**; IL1B; VEGFA; CXCL8; WNT7B; COL13A1; SERPINE1; TNFAIP6 SLC8A2; FGFR2; BMP4; TGFB2; SLIT3
mRNA biogenesis	2	**PPP2R2C;** TUBA4A	5	TENT5B; GSPT2; MBP **PPP2R2C**; PPP2R2B
GTP-binding proteins	7	RAB36; PLEKHG4 **RAPGEF4; MCF2L;** DIRAS3; RND2; ADAP2	9	RHOD; RAB27B; ARHGAP24 (FILGAP) **RAPGEF4; MCF2L;** IQGAP2; RUNDC3A; SRGAP3; ARHGAP22
Cytochrome p450	2	CYP1B1; PTGIS	0	
Mitochondrial biogenesis	2	**GDAP1L1;** CHCHD10	2	**GDAP1L1**; PPARGC1A
Cytokine receptors	3	**CMKLR1;** IL21R **GHR**	5	**CMKLR1;** IL31RA **GHR;** ACKR1; NGFR
Chaperones and folding catalysts	0		4	DNAJB9; PCSK1 DNAJC12; CRYAB
Spliceosome	0		3	RNVU1-7 NOVA2; SRSF8
DNA repair and recombination proteins	0		2	PPP4R4 LRATD2 (FAM84B)
Ribosome biogenesis	1	ATP8A2	0	
Translation factors	0		1	GSPT2
Miscellaneous	26	**IGFN1**; **MCTP1; PRTFDC1; SDF2L1**; **FCRLA**; **HCLS1;** CRYBG1; ZNF804A; TMEM255A; CHCHD10; LRRC17; SPX; NIPSNAP1; MID1IP1	68	**IGFN1**; **MCTP1; PRTFDC1; SDF2L1**; **FCRLA**; **HCLS1;** LURAP1L; FAM167A; NUP50-DT; TMEM158; ARMCX2; TM4SF19; SBSN; ANKRD29; SH2D5; HPCAL1; TEX15; NPY; DTNA; SCG2; PRUNE2; EMP1; PAQR5; KDELC2; FCRLB; GCSAM; DKK1; S100A6; DNER; PHLDA2

	CCDC181; H3BM21 (AC068234.1); TMEM98; BEND4; PAIP2B; VANGL2; PLAC8; CARD11; NMU	**CCDC181; H3BM21 (AC068234.1); TMEM98; BEND4; PAIP2B**; **VANGL2;** FAM49A; LYPD6B; FAM13C; FAM225A; ZNF608; ARMH4; TMEM130; AMOT; SAMD11; ENDOD1; NPR3; ZNF66; CASC10; CASC15; LAMP5; SELENOP; TSPAN11; DMKN; APOC1; OLFM1; SNCAIP; SLITRK6; DLL1; C4BPA; SMAD6; MAGEH1; PKIB; LIN7A; TOX; SAMD5; HHIPL2; EFHD1