

**S3 Table. List of upregulated and downregulated genes in P28B cells according to gene ontology analysis**

Gene ontology	Set of genes
<i>Upregulated genes (fold-change ≥ 2)</i>	
GO:0007166~cell surface receptor linked signal transduction	<b>NOG, GRIK1, PREX2, EDN1, MITF, LPAR3, VIPR2, WNT2, FOXF1, CXCR7, LBP, SHC3, CFD, CIB2, LYN, PTGER4, PTHLH, ADAMTS7, CHRM3, ADM, GPR56, SORT1, OR10K2, GPR183, TWSG1, FGFR4, USP9Y, GPR63, GPR65, OXTR, CACNB3, ITGB3, KIT, GPRC5B, ADAP1, MUSK, TEK, P2RY1, CD24, D4S234E, PPAP2A, ENTPD1, DTX4, TXNIP, GABRA2, SMAD9, NLK, GRIA4, FZD7, FZD6, WNT2B, RPS6KA5, SEMA6A, LAMA3, EPHA6, PENK, NPY*, ITGA8*, P2RY14, RGS6, GFRA1, SMURF2*, RGS9, BAMBI, SST</b>
GO:0007155~cell adhesion	<b>PPFIA2, VTN, ITGB3, CDH6, CD9, FAT3, FAT4, TEK, ACAN, SSX2IP, CD24, ENTPD1, APBA1, F11R*, SVEP1, EGFL6, SDK1, NFASC, CLDN22, MCAM, NCAM2, LAMA3, NLGN4Y, DSG2*, ITGA8*, GPR56, DSC3, DSC2, RELN, SEMA4D, JAM2, CHL1*</b>
GO:0007186~G-protein coupled receptor protein signaling pathway	<b>GPR183, GPR63, EDN1, PREX2, GPR65, LPAR3, OXTR, GPRC5B, VIPR2, CXCR7, P2RY1, PPAP2A, ENTPD1, D4S234E, GABRA2, PTGER4, FZD7, FZD6, PTHLH, NPY*, PENK, ADM, CHRM3, P2RY14, GPR56, RGS6, SORT1, RGS9, SST, OR10K2, SLC38A4, SCN3A, GRIK1, TRPV2, ANO1, CCL8, SLC38A11, CACNB3, KCNK12, WNT2, KCNQ3, SLC4A4, SCN5A, CNNM2, GABRA2, KCND3, SLC8A1, TRPC3, TRPC6, TRPA1, GRIA4, CNNM1, P2RX5, NPY*, UCP2, ABCC4, RYR2, KCNH7, CP</b>
GO:0006811~ion transport	<b>FGFR4, GRIK1, EDN1, LPAR3, CCL8, OXTR, VIPR2, WNT2, NPTX1, MUSK, KCNQ3, TEK, CD24, SHC3, APBA1, GABRA2, LYN, GRIA4, PTHLH, CCL13, TNFSF10, CXCL14, NPY*, ADM, GPR56, TFAP2C, PMP22, SST</b>
GO:0042127~regulation of cell proliferation	<b>FGFR4, NOG, CSF1, EDN1, MITF, KIT, FLT3LG, WNT2, CD9*, TEK, CD24, PPAP2A, NKX2-3, TXNIP, NOX4, LYN, IL6R, PTHLH, ADAMTS8*, ADM, F3, WFDC1, PMP22, SST, MAB21L2, ICOSLG</b>
GO:0009611~response to wounding	<b>NOX4, F11R*, C7, A2M, NOG, F10, CYP1A1, LYN, SCUBE1, CCL8, IL6R, ITGB3, IGSF10, CD9*, CCL13, ADM, F3, P2RY1, CD24, LBP, CFD, ENTPD1</b>
GO:0006955~immune response	<b>GPR183, C7, PTGER4, LYN, GPR65, CCL8, VTN, IL6R, CCL13, TNFSF10, SARM1, CXCL14, P2RY14, SEMA4D, LBP, CD24, CFD, ICOSLG, GBP2, NKX2-3</b>
GO:0006928~cell motion	<b>PALM, MDGA1, NFASC, IL6R, KIT, DNAH5, ELMO1, WNT2, CD9*, SEMA6A, NPY*, RELN, CD24, UNC5C*, PPAP2A, NKX2-3</b>
<i>Downregulated genes (fold-change ≤ 0.5)</i>	
GO:0042127~regulation of cell proliferation	<b>NRP1, CLU*, PRRX1*, JAG1, PNP, GLI3, MSX2, RAC2*, SERPINE1, CHST11, ADRA2A, IL1B, RARB, IL1A, CDC6*, ARHGEF2, IL6, ITGA2*, GAS1, CDKN3*, VASH2, CDH13, PLA2G4A, CTH*, CCND2, TGFBR3, KLF4, NFIB, HTR2A, IL6, NRP1, ENPP2, MET, ITGA2*, SPOCK1, GAS1, ENPEP*, SLIT2, PLAUR, EPHB2, CDH13, UNC5B, ANK3, FYN*, ADRA2A, IL1B, TGFBR3, SEMA3C, VCAN</b>
GO:0006928~cell motion	<b>KCNMA1, ARHGEF2, IL6, CLU*, GAS1, GLI3, CD74*, MSX2, CDH13, PLA2G4A, UACA*, CHST11, SERPINB2, IL1B, RARB, TOP2A*, NEFL, IL1A</b>
GO:0042981~regulation of apoptosis	<b>IL18R1, KYNU, IL6, ENPP2, PRG4, CFB, CLU*, IFI44L, CTSS, PNP, CD74*, IL1B, TGFBR3, SEMA3C, HLA-DPA1, PTX3, IL1A</b>
GO:0006955~immune response	<b>NRP1, PCDHB8, PCDHB5, PCDH10, ITGA2*, SPOCK1, ITGA3*, POSTN*, CLDN11, ECM2, EMILIN2, TPBG, CDH13, TNFAIP6, PGM5, SRPX, VCAN</b>
GO:0007155~cell adhesion	<b>CDC6*, ARHGEF2, CCND2, PLK1, NCAPG, DLGAP5, BUB1B*, CENPF, HORMAD1, CDKN3*, ASPM*</b>
GO:0000278~mitotic cell cycle	<b>CDH13, BGN, NRP1, PRRX1*, TGFBR3, IL1B, SEMA3C, ENPEP*, JAG1, SLIT2</b>
GO:0001944~vasculature development	<b>CDH13, BGN, NRP1, PRRX1*, TGFBR3, IL1B, SEMA3C, ENPEP*, JAG1, SLIT2</b>

Pro-tumorigenic genes (bold), anti-tumorigenic genes (underlined) and genes with both effects in tumorigenesis (asterisk, \*) are indicated based on literature review (see S4 Table).