

Supplemental Table S4. DEGs and Enriched Functional Annotations of *BRAF*-Like Papillary Thyroid Carcinomas from the TCGA Database

Annotations	<i>q</i> -value	Genes
Upregulated DEGs		
Extracellular matrix	1.89×10^{-10}	<i>LRRC15, COL1A1, CCN4, POSTN, COL11A1, MMP13, CCN5, ASPN, COL5A2, ADAMTS16, KERA, EPYC, MMP3, COL3A1, COL1A2</i>
Extracellular space	2.15×10^{-9}	<i>COL1A1, COL12A1, CD1B, COL11A1, MMP13, SMR3B, CCL11, FGF16, CCN5, COL1A2, CSF3, MSMP, C1QTNF3, LRRC15, TCN1, CCN4, POSTN, FGF10, PI15, IL6, ASPN, COL5A2, IL36G, KERA, CR2, MMP3, PLA2G2A, VWC2, COL3A1, GREM1, SFTP2</i>
Extracellular region	4.38×10^{-7}	<i>COL1A1, COL12A1, COL11A1, MMP13, SMR3B, CCL11, FGF16, MFAP5, ADAMTS16, ADAM12, EPYC, COL1A2, CSF3, NMU, AKR1B10, TCN1, CCN4, FGF10, IL6, SAA1, ASPN, COL5A2, IL36G, KERA, MMP3, PLA2G2A, COL3A1, GREM1, SFTP2</i>
Collagen trimer	3.40×10^{-6}	<i>COL1A1, COL12A1, COL3A1, COL1A2, COL11A1, SFTP2, C1QTNF3, COL5A2</i>
Extracellular matrix structural constituent conferring tensile strength	2.58×10^{-4}	<i>COL1A1, COL12A1, COL3A1, COL1A2, COL11A1, COL5A2</i>
Collagen fibril organization	5.18×10^{-4}	<i>COL1A1, COL12A1, COL3A1, COL1A2, COL11A1, GREM1, COL5A2</i>
Extracellular matrix organization	5.18×10^{-4}	<i>ADAMTS16, MMP3, COL1A1, COL3A1, COL1A2, POSTN, COL11A1, MMP13, COL5A2</i>
Extracellular matrix structural constituent	2.82×10^{-3}	<i>COL1A1, COL3A1, COL1A2, POSTN, COL11A1, MFAP5, COL5A2</i>
Protein digestion and absorption	1.37×10^{-2}	<i>COL1A1, COL12A1, COL3A1, COL1A2, COL11A1, COL5A2</i>
Endoplasmic reticulum lumen	3.27×10^{-2}	<i>COL1A1, COL12A1, COL3A1, COL1A2, COL11A1, IL6, COL5A2</i>
Downregulated DEGs		
Neuroactive ligand-receptor interaction	4.12×10^{-2}	<i>VGF, GRIA2, PENK, CALCA, CALCB, NPFFR2</i>
Extracellular region	4.95×10^{-2}	<i>IGHG4, CEACAM5, HAMP, PENK, IGKV2-28, CALCA, CALCB, FGG, IGKV2-29, KLK5, TMEFF2, KLK3, GFRA4, IGHV4-4</i>
Extracellular space	4.95×10^{-2}	<i>IGHG4, VGF, HAMP, IGKV1D-17, IGKV2-28, CALCA, CALCB, FGG, MYOC, IGKV2-29, KLK5, SCGB3A1, KLK3</i>
Plasma membrane	9.79×10^{-2}	<i>SLC5A5, IGHG4, CEACAM5, GLDC, IGKV1D-17, CFTR, PENK, LHFPL4, IGKV2-28, CACNA1E, NPFFR2, FGG, IGKV2-29, KCNJ13, TRDC, TRPV6, TMEFF2, SLC30A3, GRIA2, ASTL, GFRA4, IGHV4-4</i>
External side of plasma membrane	9.79×10^{-2}	<i>IGHG4, TRDC, GRIA2, FGG, GFRA4, IGHV4-4</i>
Immunoglobulin complex	9.79×10^{-2}	<i>IGKV2-29, IGKV1D-17, IGKV2-28, IGHV4-4</i>
Hormone activity	1.15×10^{-1}	<i>VGF, HAMP, CALCA, CALCB</i>
Neuropeptide hormone activity	1.15×10^{-1}	<i>VGF, PENK, CALCB</i>
Calcitonin receptor binding	1.59×10^{-1}	<i>CALCA, CALCB</i>
Neuronal cell body	1.82×10^{-1}	<i>VGF, GRIA2, PENK, CACNA1E, CALCA</i>

DEG, differentially expressed gene; TCGA, The Cancer Genome Atlas.