

Table S1 Continuously Upregulated or Downregulated Genes in the Process of N0 to N1a and N1a to N1b in PTC patients

Gene Symbol	Description	Trends
<i>GALNT7</i>	Polypeptide N-Acetylgalactosaminyltransferase 7	Up
<i>ATP6V1B2</i>	ATPase H ⁺ Transporting V1 Subunit B2	Up
<i>LRATD2</i>	LRAT Domain Containing 2	Up
<i>SLCO4A1</i>	Solute Carrier Organic Anion Transporter Family Member 4A1	Up
<i>SNX27</i>	Sorting Nexin 27	Up
<i>BRX1</i>	Biogenesis of Ribosomes BRX1	Up
<i>DNAJC21</i>	DnaJ Heat Shock Protein Family (Hsp40) Member C21	Up
<i>OR5A1</i>	Olfactory Receptor Family 5 Subfamily A Member 1	Up
<i>BAZ1A</i>	Bromodomain Adjacent to Zinc Finger Domain 1A	Up
<i>TREM1</i>	Triggering Receptor Expressed on Myeloid Cells 1	Up
<i>PI15</i>	Peptidase Inhibitor 15	Up
<i>ANPEP</i>	Alanyl Aminopeptidase, Membrane	Up
<i>ZMYND8</i>	Zinc Finger MYND-Type Containing 8	Up
<i>NR2F1</i>	Nuclear Receptor Subfamily 2 Group F Member 1	Up
<i>FXD5</i>	FXD Domain Containing Ion Transport Regulator 5	Up
<i>PABPC4L</i>	Poly(A) Binding Protein Cytoplasmic 4 Like	Up
<i>RARA</i>	Retinoic Acid Receptor Alpha	Up
<i>CRYBG1</i>	Crystallin Beta-Gamma Domain Containing 1	Up
<i>ARHGAP17</i>	Rho GTPase Activating Protein 17	Up
<i>WFS1</i>	Wolframin ER Transmembrane Glycoprotein	Down
<i>CFAP46</i>	Cilia and Flagella Associated Protein 46	Down
<i>CLCNKB</i>	Chloride Voltage-Gated Channel Kb	Down
<i>PEG3</i>	Paternally Expressed 3	Down
<i>ATP2C2</i>	ATPase Secretory Pathway Ca ²⁺ Transporting 2	Down
<i>ALDH1A1</i>	Aldehyde Dehydrogenase 1 Family Member A	Down
<i>RILPL2</i>	Rab Interacting Lysosomal Protein Like 2	Down
<i>AKAP3</i>	A-Kinase Anchoring Protein 3	Down
<i>RILPL1</i>	Rab Interacting Lysosomal Protein Like 1	Down
<i>MAPK8IP1</i>	Mitogen-Activated Protein Kinase 8 Interacting Protein 1	Down
<i>FAM240C</i>	Family with Sequence Similarity 240 Member C	Down
<i>C12orf60</i>	Chromosome 12 Open Reading Frame 60	Down
<i>RWDD2A</i>	RWD Domain Containing 2A	Down
<i>ARHGEF33</i>	Rho Guanine Nucleotide Exchange Factor 33	Down
<i>ZNF79</i>	Zinc Finger Protein 79	Down
<i>INKA2</i>	Inka Box Actin Regulator 2	Down
<i>ZNF544</i>	Zinc Finger Protein 544	Down
<i>RDH13</i>	Retinol Dehydrogenase 13	Down
<i>CABLES1</i>	Cdk5 and Abl Enzyme Substrate 1	Down
<i>PRDM16</i>	PR/SET Domain 16	Down
<i>TM2D2</i>	TM2 Domain Containing 2	Down
<i>SDR42E1</i>	Short Chain Dehydrogenase/Reductase Family 42E, Member 1	Down
<i>HS6ST3</i>	Heparan Sulfate 6-O-Sulfotransferase 3	Down
<i>ESRRG</i>	Estrogen Related Receptor Gamma	Down
<i>ZBED9</i>	Zinc Finger BED-Type Containing 9	Down
<i>TRPV6</i>	Transient Receptor Potential Cation Channel Subfamily V Member 6	Down
<i>VPS37D</i>	VPS37D Subunit Of ESCRT-I	Down
<i>TUB</i>	TUB Bipartite Transcription Factor	Down
<i>MYCN</i>	MYCN Proto-Oncogene, BHLH Transcription Factor	Down
<i>KIAA0319L</i>	KIAA0319 Like	Down
<i>PLA2R1</i>	Phospholipase A2 Receptor 1	Down
<i>SLC5A7</i>	Solute Carrier Family 5 Member 7	Down
<i>NCOA5</i>	Nuclear Receptor Coactivator 5	Down
<i>BMP7</i>	Bone Morphogenetic Protein 7	Down
<i>NUPR2</i>	Nuclear Protein 2, Transcriptional Regulator	Down
<i>DDOST</i>	Dolichyl-Diphosphooligosaccharide--Protein Glycosyltransferase Non-Catalytic Subunit	Down
<i>PPP1R42</i>	Protein Phosphatase 1 Regulatory Subunit 42	Down
<i>NCS1</i>	Neuronal Calcium Sensor 1	Down
<i>ZDHHC22</i>	Zinc Finger DHHC-Type Palmitoyltransferase 22	Down
<i>SDHAF3</i>	Succinate Dehydrogenase Complex Assembly Factor 3	Down
<i>KCNJ13</i>	Potassium Inwardly Rectifying Channel Subfamily J Member 13	Down
<i>TMEM86A</i>	Transmembrane Protein 86A	Down
<i>AQP11</i>	Aquaporin 11	Down
<i>NRDE2</i>	NRDE-2, Necessary for RNA Interference, Domain Containing	Down
<i>ROPN1B</i>	Rophilin Associated Tail Protein 1B	Down
<i>SYNGR1</i>	Synaptogyrin 1	Down
<i>METTL2A</i>	Methyltransferase Like 2A	Down
<i>ZNF618</i>	Zinc Finger Protein 618	Down
<i>APMAP</i>	Adipocyte Plasma Membrane Associated Protein	Down
<i>ZNF582</i>	Zinc Finger Protein 582	Down