

<b>Human Neurogenesis PCR Array</b>
<b>Neuronal Migration:</b> ASCL1, CDK5R1, DCX, DRD2, NDN, NEUROG2, NRCAM, NTN1, PAFAH1B1, ROBO1, SLIT2.
<b>Cell Differentiation:</b>
<u>Neuronal Differentiation:</u> ASCL1, BDNF, BMP2, BMP4, CDK5R1, CDK5RAP2, HES1, HEYL, MEF2C, NEUROD1, NEUROG1, NEUROG2, NOG, NRCAM, OLIG2, PAFAH1B1, PAX3, POU4F1, RTN4, SOX2.
<u>Neuronal Cell Fate Determination:</u> ASCL1, NTF3, OLIG2, SOX2.
<u>Other Regulators of Cell Differentiation:</u> HDAC4, MDK, NRG1 (HGL), ODZ1, PAX5, PAX6.
<b>Synaptic Functions:</b>
<u>Regulation of Synaptic Plasticity:</u> ADORA1, APOE, BDNF, DRD2, GRIN1, NF1, S100B.
<u>Synaptic Transmission:</u> APOE, CHRM2, CREB1, DLG4 (PSD95), DRD2, FGF2 (BFGF), GRIN1, PAFAH1B1, SOD1, TH.
<u>Synaptogenesis:</u> ACHE, NRCAM, POU4F1.
<u>Axonogenesis:</u> APBB1, APP, DCX, DRD2, ERBB2 (HER2), MAP2, NOTCH1, NRCAM, PARD3, POU4F1, S100A6, S100B.
<b>Growth Factors &amp; Cytokines:</b>
<u>Growth Factors:</u> ARTN, BDNF, EGF, FGF2 (BFGF), GDNF, GPI, MDK, NDP, NRG1 (HGL), PTN, S100A6, VEGFA.
<u>Cytokines:</u> BMP2, BMP4, BMP8B, CXCL1, GPI, IL3, MDK, PTN, TGFB1.
<b>Apoptosis:</b> ADORA1, ADORA2A, ALK, APOE, BCL2, EP300, GDNF, NOTCH2, NTN1, PAX3, RTN4, S100B, VEGFA.
<b>Cell Adhesion:</b> DLL1, EFNB1, NRCAM, NRP1, NRP2, RAC1, ROBO1, SLIT2, TNFR.
<b>Cell Cycle:</b> APBB1, EP300, HDAC4, MDK, MLL, NDN, PARD3, PTN.
<b>Signal Transduction:</b>
<u>Notch Signaling:</u> APP, ASCL1, DLL1, HES1, HEY1, HEY2, HEYL, NOTCH1, NOTCH2, NRG1 (HGL).
<u>WNT Signaling:</u> DVL3, NDP, SHH.
<u>TGF<math>\beta</math> Signaling:</u> BMP2, BMP4, BMP8B, TGFB1.
<u>G-Protein Coupled Receptor Signaling:</u> ADORA1, ADORA2A, CHRM2, CXCL1, DRD2.

**Transcription Factors & Cofactors:** APBB1, ASCL1, CREB1, EP300, FLNA, HES1, HEY1, HEY2, HEYL, MEF2C, MLL, NDN, NEUROD1, NEUROG1, NEUROG2, NR2E3, PAX3, PAX5, PAX6, POU3F3, POU4F1, SOX2, SOX8, STAT3.