

Human Notch Signaling Pathway PCR Array
Notch Signaling Pathway:
<u>Notch Ligands:</u> NOTCH1, NOTCH2, NOTCH2NL, NOTCH3, NOTCH4.
<u>Notch Binding:</u> DLL1, DLL3, DLL4, DTX1, JAG1, JAG2, LFNG, MFNG, NUMB, RFNG.
<u>Notch Receptor Processing:</u> ADAM10, ADAM17 (CD156B), NCSTN, PSEN1, PSEN2, PSENEN (PEN2).
<u>Transcription Factors & Cofactors:</u> EP300, HDAC1, MAML1, MAML2, NCOR2, RBPJL, SNW1 (SKIIP).
Notch Target Genes:
<u>Apoptosis:</u> CDKN1A (p21CIP1/WAF1), CFLAR (CASPER), FOSL1 (FRA1), ID1, IL2RA (CD25), NFKB1, PTCRA.
<u>Cell Cycle:</u> CCND1, CDKN1A (p21CIP1/WAF1).
<u>Cell Adhesion:</u> CD44, ERBB2 (HER2).
<u>Cell Differentiation & Development:</u> DTX1, HES1, HES5, HEY1, HEY2, HEYL, JAG1, KRT1, LFNG, LOR, NOTCH1, PPARG.
<u>Neurogenesis:</u> ERBB2 (HER2), FOS, HES1, HEY1, NR4A2 (NUR77).
<u>Immune Response:</u> CHUK (IKKa), IFNG, IL17B, IL2RA (CD25), NFKB1, NFKB2, STAT6.
<u>Transcription Factors:</u> FOS, FOSL1 (FRA1), HES1, HES5, HEY1, HEY2, HEYL, ID1, NFKB1, NFKB2, NR4A2 (NUR77), PPARG, STAT6.
Other Genes Involved in the Notch Signaling Pathway:
<u>Apoptosis:</u> AXIN1, CTNNB1.
<u>Cell Cycle:</u> AXIN1, CCNE1, FIGF (VEGFD), JAG2, NOTCH2.
<u>Cell Proliferation:</u> FIGF, FZD3, LRP5, STIL.
<u>Cell Differentiation:</u> PAX5, SHH.
<u>Neurogenesis:</u> NEURL, PAX5, ZIC2 (HPE5).
<u>Transcription Factors & Cofactors:</u> AES (Groucho), CBL, CTNNB1, GLI1, HOXB4, HR, PAX5, POFUT1, RUNX1 (AML1), SUFU, TLE1.
<u>Other Genes:</u> LMO2, MMP7, SEL1L, SH2D1A.
Pathways that Crosstalk with the Notch Signaling Pathway:

Hedgehog Signaling: GLI1, GSK3B, SHH, SMO, SUFU.

WNT Signaling: AES (Groucho), AXIN1, CTNNB1, FZD2, FZD3, FZD4, FZD7, GSK3B, LRP5, TLE1, WISP1

I, WNT11.