

Human Alzheimer's Disease PCR Array
Beta-Amyloid Generation, Oligomerization, Clearance, & Degradation:
<u>Secretases:</u> ADAM9, APH1A, BACE1, BACE2, CTSB, NCSTN, PSEN1, PSEN2.
<u>Other Peptidases:</u> IDE, PLAT (tPA), PLA2 (uPA), PLG.
<u>Endocytosis:</u> APLP1, APP, LRP1, LRP6, LRP8.
<u>Other Genes:</u> A2M, ACHE, APBB1, APBB2, APOE, BCHE, UBQLN1.
Cytoskeleton Reorganization: APOE, MAP2, MAPT, PKP4, PRKCI.
Synaptic Formation: ACHE, APBA1, APBB1, APBB2, APOE, BDNF, CHAT.
Lipid Metabolism: ABCA1, APOA1, APOE, CLU, HSD17B10 (HADH2), INS, LPL, LRP1, LRP8, SNCB.
Apoptosis: APLP1, APP, CASP3, CASP4, CLU, EP300, ERN1, IL1A, MAPT, MPO, NAE1, PRKCA, PRKCE, PRKCZ, PSEN1, PSEN2, SNCA.
Cell Cycle: APBB1, APBB2, CDK1 (CDC2), CDK5, CDKL1, ERN1, EP300, IL1A, NAE1, PRKCA.
Cell Signaling Molecules:
<u>WNT Signaling:</u> GSK3A, GSK3B, LRP6.
<u>Notch Signaling:</u> ADAM10, APH1A, NCSTN, PSEN1, PSEN2.
<u>G-protein Coupled Receptor Signaling:</u> APLP2, GNAO1, GNAZ, GNB1, GNB4, GNB5, GNG11, GNG3, GNG4, GNGT1, GNGT2, NTRK1, NTRK2.
<u>Intracellular Signaling:</u> APBA3, APBB2, PRKCA, PRKCB, PRKCD, PRKCE, PRKCG, PRKCI, PRKCQ, PRKCZ, PSEN1, PSEN2.
<u>Other Genes:</u> GAP43, GNB2, IDE, IL1A, INSR, NAE1, PLA2 (uPA).
Transcription: APBB1, APBB2, EP300, ERN1.
Oxidative Stress: HSD17B10 (HADH2), MPO, UQCRC1, UQCRC2.
Proteases & Inhibitors: ADAM10, APLP2, APP, CAPN1, CTSC, CTSD, CTSG, CTSL1, SERPINA3, UQCRC2.