

Human Parkinson's Disease PCR Array
Parkin Complex: HSPA4 (HSP70), PARK7, STUB1.
Parkin Substrate: ATXN2, ATXN3, GPR37, SYT11.
Cell Adhesion: APC, APP, CDH8, FN1, NFASC, NRXN3, PTEN, TPBG.
Ubiquitination: CDC27, CUL2, FBXO9, LRRK2, PAN2, PARK2, PINK1, SKP1, STUB1, UBB, UBA1, UBE2I, UBE2K, UBE2L3, UCHL1, USP34.
Inflammation: FN1, PRDX2, YWHAZ.
Apoptosis:
<u>Pro-Apoptosis:</u> APC, APP, CASP1 (ICE), CASP3, CASP8 (FLICE), CASP9, CUL2, MAPK9 (JNK2), PSEN2, PTEN.
<u>Anti-Apoptosis:</u> APC, BDNF, CASP3, CASP9, NEFL, NR4A2 (NUR77), OPA1, PPID, PRDX2, PSEN2, PTEN, SLC25A4, SNCA, TCF7L2, UBB, YWHAZ.
Mitochondria: CASP3, CASP7, CASP8 (FLICE), HSPA4 (HSP70), LRRK2, NEFL, OPA1, PARK7, PINK1, PTEN, SLC25A4, SNCA, TH, UCHL1, VAMP1, VDAC3, YWHAZ.
Synaptic Vesicles: LRRK2, SEPT5, SV2B, SYNGR3, SYT1, SYT11, TH.
Signal Transduction:
<u>Dopaminergic:</u> D4S234E, DDC, DRD2, HTR2A, NR4A2 (NUR77), PARK2, PARK7, PINK1, SEPT5, SLC6A3, SNCA, TH.
<u>GABAergic:</u> DRD2, GABBR2.
<u>MAP Kinase:</u> APC, FGF13, MAPK9 (JNK2), PRDX2, RGS4.
<u>Notch:</u> APP, PSEN2, SPEN.
Cytoskeletal Organization: APC, CDC42, MAPT, NEFL, PARK2.
Ion Transport: ATP2B2, CADPS, CXXC1, DRD2, EGLN1, GBE1, GRIA3, HTR2A, KCNJ6, NSF, PSEN2, S100B, SRSF7, SLIT1, SNCA, VDAC3.
Transporters: ATP2B2, GRIA3, SLC18A2, SLC6A3, SLC25A4, SV2B, SYT1, SYT11, VDAC3.
Others: ALDH1A1, BASP1, CHGB, DLK1, NCOA1, NTRK2, RTN1.