

Human Dopamine & Serotonin Pathway PCR array
<u>Receptors:</u>
<u>Dopamine:</u> DRD1, DRD2, DRD3, DRD4, DRD5.
<u>Serotonin:</u> HTR1A, HTR1B, HTR1D, HTR1E, HTR1F, HTR2A, HTR2B, HTR2C, HTR3A, HTR3B, HTR4, HTR5A, HTR6, HTR7.
<u>Synthesis & Degradation:</u>
<u>Dopamine:</u> COMT, DBH, DDC, MAOA, TH.
<u>Serotonin:</u> MAOA, MAOB, TDO2, TPH1, TPH2.
<u>Dopamine & Serotonin Transporters:</u> SLC6A3 (DAT), SLC6A4 (SERT).
<u>Signal Transduction pathways:</u>
<u>cAMP/PKA Pathway:</u> ADCY1, ADCY2, ADCY3, ADCY5, CASP3, CDK5, CREB1, DUSP1, FOS, PRKACA, MAPK1, PPP1R1B (DARPP32).
<u>PI3K/AKT Pathway:</u> PIK3CA, PIK3CG, AKT1, AKT2, AKT3, GSK3A, GSK3B.
<u>PLA2 Pathway:</u> ALOX12, CYP2D6, PDE4A, PDE4B, PDE4C, PDE4D, PDE10A, PLA2G5.
<u>PLC Pathway:</u> ITPR1, PLCB1, PLCB2, PLCB3.
<u>G-Protein Coupled Receptor Regulation:</u> ADRB1, ADRB2, ADRBK1, ADRBK2, APP, ARRB1, ARRB2, GRK4, GRK5, GRK6, SNCA, SNCAIP.
<u>Dopamine & Serotonin Gene Targets:</u> BDNF, EPHB1, GDNF, GFAP, NR4A1 (NUR77), NR4A3 (NOR1), PDYN, PTGS2, SLC18A1, SLC18A2 (VMAT2), SYN2.