

## Human GABA & Glutamate PCR Array

### Glutamatergic Synapse:

Receptors: GRIA1, GRIA2, GRIA3, GRIA4, GRIK1, GRIK2, GRIK4, GRIK5, GRIN1, GRIN2A, GRIN2B, GRIN2C, GRM1, GRM2, GRM3, GRM4, GRM5, GRM6, GRM7, GRM8.

Downstream Signaling: ADCY7, APP, CACNA1A, CDK5R1, CLN3, DLG4 (PSD95), GNAI1, GNAQ, HOMER1, HOMER2, ITPR1, MAPK1 (ERK2), PLA2G6, PLCB1, SHANK2.

Transport & Secretion: ADORA1, ADORA2A, AVP, BDNF, IL1B, P2RX7, SLC17A6, SLC17A8, SLC1A1, SLC1A2, SLC1A3, SLC1A6, SLC17A6, SLC17A7, SLC17A8, SLC38A1, SLC7A11, SNCA.

Metabolism: ALDH5A1, GAD1, GLS, GLUL, PRODH, SLC1A3, SRR.

### GABAergic Synapse:

Receptors: GABBR1, GABBR2, GABRA1, GABRA2, GABRA4, GABRA5, GABRA6, GABRB1, GABRB3, GABRD, GABRE, GABRG1, GABRG2, GABRG3, GABRQ, GABRR1, GABRR2.

Downstream Signaling: ADCY7, ADORA1, ADORA2A, CACNA1A, CACNA1B, GNAI1, GNAQ, GPHN, SNCA.

Transport & Secretion: CACNA1A, NSF, P2RX7, SLC1A3, SLC32A1, SLC38A1, SLC6A1, SLC6A11, SLC6A12, SLC6A13.

Metabolism: ABAT, ALDH5A1, GAD1, GLS, GLUL, PHGDH, SLC1A3.