

## List of neuron synapse-encoding genes

gene

CBLN1

DKK1

EPHA7

PTPN13

ROBO2

SLIT1

TLR2

WNT5A

ARHGEF15

NEUROD2

NFATC4

ADORA1

CNR2

HTR1B

NPY5R

SLC6A1

STXBP1

ATAD1

DRD2

DRD3

GRIK2

GRIK3

HTR2A

EPHB2

GRM5

KIT

NEURL1

NPTN

SHANK3

ADGRB1

ADGRB3

ADNP

AGRN

AMIGO1

AMIGO2

AMIGO3

ARMCX5-GPRASP2

ASIC2

BDNF

CBLN2

CLSTN1

CLSTN2

CLSTN3

CUX2

DLG5

EEF2K

EFNA5

EPHB1

EPHB3

FLRT2

FLRT3

GHRL

GPRASP3

GRID2

IL1RAP

IL1RAPL1

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LRRN3  
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LRRTM2  
LRRTM3  
LRTM2  
NLGN1  
NLGN2  
NLGN3  
NRXN1  
NTRK1  
NTRK2  
OXTR  
PTPRD  
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SEMA4D  
SLITRK1  
SLITRK2  
SLITRK3  
SLITRK4  
SLITRK5  
SLITRK6  
SRPX2  
ST8SIA2  
STAU2  
SYNDIG1  
THBS2  
TPBG  
VSTM5  
WNT7A  
ADGRL1  
ANAPC2  
CAMK2B  
CDC20  
DAB2IP  
RELN  
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LAMA2  
NALCN  
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TACR2  
ADRA1A  
CA2  
CA7  
HAP1  
KIF5B  
NPS  
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CACNG3  
CACNG4

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CACNG8  
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CCR2  
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ERBB4  
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BMPR2  
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CADM1  
CALCA  
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CAMK2N1  
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CAPZB  
CDK5R1  
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CPEB3  
CPEB4  
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DCC  
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DLG2  
DMTN  
DNAJC6  
DNM2  
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EIF3E  
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FXR2  
FYN  
GIT1  
GNG3  
GOPC  
GPER1  
GPHN  
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GRIK4  
GRIK5  
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IGSF9B  
INPP4A  
INSYN1  
INSYN2A  
INSYN2B  
IQSEC1  
ITPR1  
KALRN  
KCNH1

LIN7A  
LIN7B  
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LZTS3  
MAGI2  
MINK1  
MPDZ  
MPP2  
MTMR2  
NCK2  
NCS1  
NECTIN3  
NEFH  
NGFR  
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PCBP2  
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PDYN  
PENK  
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PJA2  
PKP4  
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PPP1R9B  
PRKCG  
PRNP  
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PRRT1  
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RHEB  
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RTN1

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SEMA4C  
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RAP2B  
GRIK2  
GATM  
ANK3  
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PTPRZ1  
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CYFIP2

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NCKAP1  
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ILK  
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SBF1  
COX5A  
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CAMKV  
MTOR  
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HECTD1  
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SRPK2  
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THY1  
MYL4  
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GABRA3  
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PRUNE2  
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XKR4  
ICAM5  
ASTN1  
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DPP10  
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IGSF21  
GABBR2  
DGKZ  
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DLGAP2  
CADPS2  
CAMKK2  
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SHISA7  
HYCC2  
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CALCOCO1  
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ABLIM1  
ARHGEF6  
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CSNK1D  
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LGI1  
NECTIN1  
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GRIA3

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YJEFN3  
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SYT3  
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TRAPPC3  
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COPS4  
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MIF  
CFL2  
SYT2  
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UFM1  
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GABRB2  
MPP1  
HINT1  
CDH10  
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HAPLN4  
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DGKG  
WASL  
TTC1  
DIRAS1  
NECAB2  
MACROD1  
PLS3  
CLINT1  
DHRS1  
DDAH2  
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DNAJB2  
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FSD1  
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KCNA4  
PDE1A  
CA4  
CRTC1

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HCN2  
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ACYP2  
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TIMM8B  
OLFM3  
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KCNAB1  
PKP1  
ATP5PF

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ATP5ME  
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TRAPPC9  
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PDP1  
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ARRB1  
PITHD1  
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VWA8  
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TRNT1  
PITRM1  
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BPHL  
UBQLN1  
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SH3KBP1  
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ISOC1  
WVOX  
PNPO  
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ME2  
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RGS10  
BTF3L4  
DNAJC19  
UQCC2  
NDUFB7  
TPPP3  
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BCS1L  
UBE2V1  
TBCB  
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BCAS1  
APPL2  
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FABP3  
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ADSS2  
PPP3CC  
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NCAN  
MRTFB  
SNAP25  
CYTH2

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PRKAA1  
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HRAS  
NT5E  
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ABLM3  
DGKB  
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TIAM2  
CSPG5  
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OSCP1  
ABLM2  
AGAP1  
THOP1  
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DCTN6  
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CRYAB  
CRYZ  
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ANXA5

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TSNAX