

Supplementary information | S3

Nomenclature of molecular features

(Method used to identify these molecules should be specified)

Transcription factors

Nkx2.1, Dlx1, Dlx2, Lhx6, NPAS1, NPAS3, Vax1

Neurotransmitters or their synthesizing enzymes (+/-)

GABA, GAD, NO, nNOS, TH, ACh, ChAT

Neuropeptides (+/-)

SOM, VIP, NPY, CCK, TK

Calcium binding proteins (+/-)

PV, CR, CB

Receptors

Ionotropic: AMPA (GluR1–4); kainate (GluR5–7, KA1, KA2); NMDA (NR1, NR2A–D); GABA_A (α 1–6, β 1–3, γ 1–3, δ , ϵ , π , and τ); GABA_C (ρ 1–3); glycine (α 1– α 4, β); nicotinic (nAChR α 2– α 7, β 2– β 4); serotonin (5-HT₃).

Metabotropic: GABA_B (1a, 1b, 2); glutamate (type I: mGluR1, mGluR5; type II: mGluR2, mGluR3; type III: mGluR4, mGluR6–8); muscarinic (M1–M5); serotonin (coupled to G_o/G_α proteins: 5-HT_{1A}, 5-HT_{1B}, 5-HT_{1D}, 5-HT_{1E}, 5-HT_{1F}; coupled to G_α proteins: 5-HT_{2A}, 5-HT_{2B}, 5-HT_{2C}; coupled to G_s proteins: 5-HT₄, 5-HT₆, and 5-HT₇; 5-HT₅; 5-HT_{5A} and 5-HT_{5B}); noradrenaline (α 1: α 1A, α B, α 1D; α 2: α 2A, α 2B, α 2C; β : β 1, β 2, β 3); histamine (H1–H4); dopamine (D1, D2); cannabinoid (CB1, CB2).

Structural proteins

Cell surface markers (+/-)

VVA (*Vicia villosa* agglutinin), SBA (soybean agglutinin)

Ion channel expression (+/-)

Kv3.1, Kv3.2, Ih (HCN1–4), I_T (T type current), Ca α 1, C α 3.1–3, Kv1.1, Kv4.2 or Kv4.3, Kv2.1, Kv2.2, SK and BK, KCNQ

Connexins

Pannexins

Transporters

Plasma membrane: GAT-1, GAT-3

Vesicular: VGAT, VGLUT-3