

Table S1 Probes and reagents for RNAscope smFISH and smISH

Probes
RNAscope™ Probe- Mm- <i>Gnal</i> -tv2-C2, Mus musculus guanine nucleotide binding protein alpha stimulating olfactory type (<i>Gnal</i>) transcript variant 2 (ACD Cat No. 1182761-C2)
RNAscope™ Probe- Mm- <i>Gnal</i> -tv1-C1, Mus musculus guanine nucleotide binding protein alpha stimulating olfactory type (<i>Gnal</i>) transcript variant 1 (ACD Cat No. 1182751-C1)
RNAscope™ Probe- Mm- <i>Drd1a</i> -C3 - Mus musculus dopamine receptor D1A (<i>Drd1a</i>) (ACD Cat No. 406491-C3)
RNAscope™ Probe- Mm- <i>Drd2</i> -C3 - Mus musculus dopamine receptor D2 (<i>Drd2</i>) (ACD Cat No. 406501-C3)
RNAscope™ Probe- Mm- <i>Calb1</i> -C3 - Mus musculus calbindin 1 (<i>Calb1</i>) (ACD Cat No. 428431-C3)
Reagents
Akoya Biosciences Opal 520 Reagent Pack (Cat No. NC1601877)
Akoya Biosciences Opal 570 Reagent Pack (Cat No. NC1601878)
RNAscope-Multiplex Fluorescent Detection Reagents v2 (ACD Cat No. 323110)
DAPI (4',6-Diamidino-2-Phenylindole, Dihydrochloride) (ThermoFisher Scientific, Waltham, MA, USA)
RNAscope® H2O2 and Protease Reagents (ACD Cat No. 322381)
RNAscope® 2.5 HD Detection Reagent-Brown (ACD Cat No. 2013537)
RNAscope® H2O2 and Protease Plus Reagents (ACD Cat No. 322330)
RNAscope® Multiplex TSA buffer (ACD Cat No. 322809)

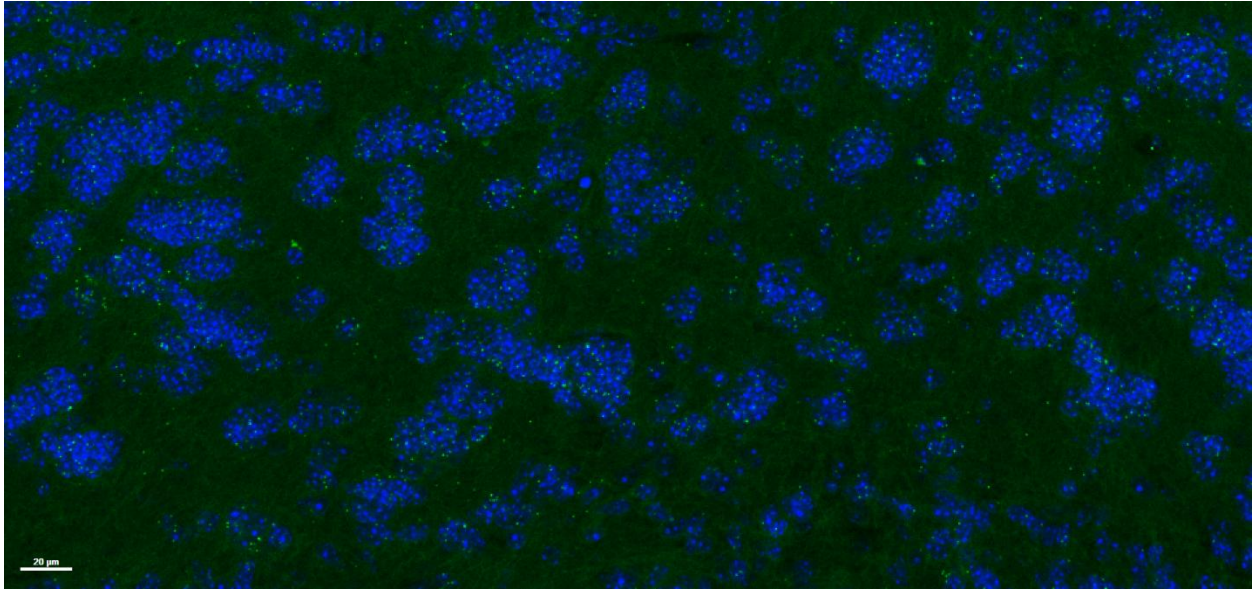


Fig. S1. Olfactory bulb, granule cell layer. Gα(olf) transcript (green) and DAPI (blue).

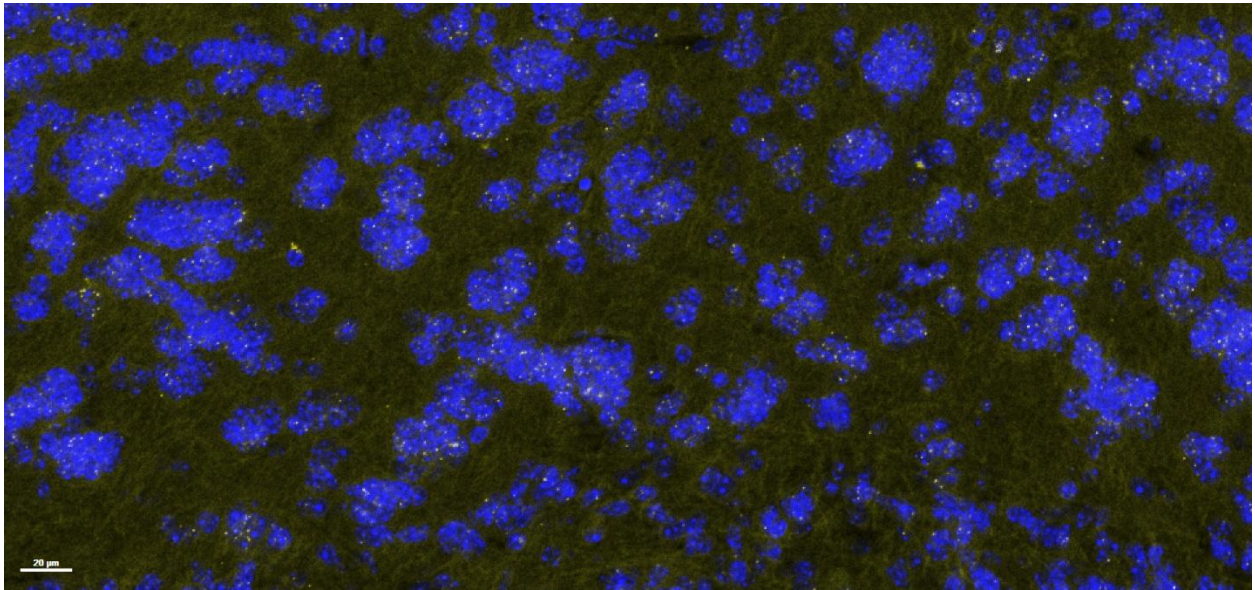


Fig. S2. Olfactory bulb, granule cell layer. XLGα(olf) transcript (yellow) and DAPI (blue).

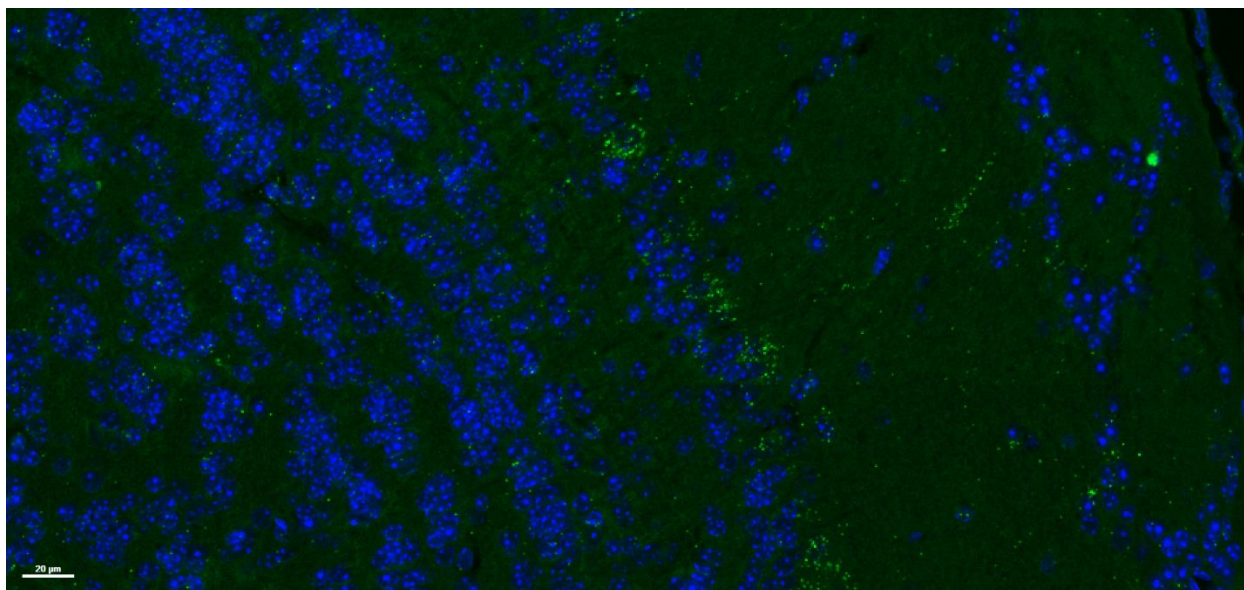


Fig. S3. Olfactory bulb, mitral cell layer. Gα(olf) transcript (green) and DAPI (blue).

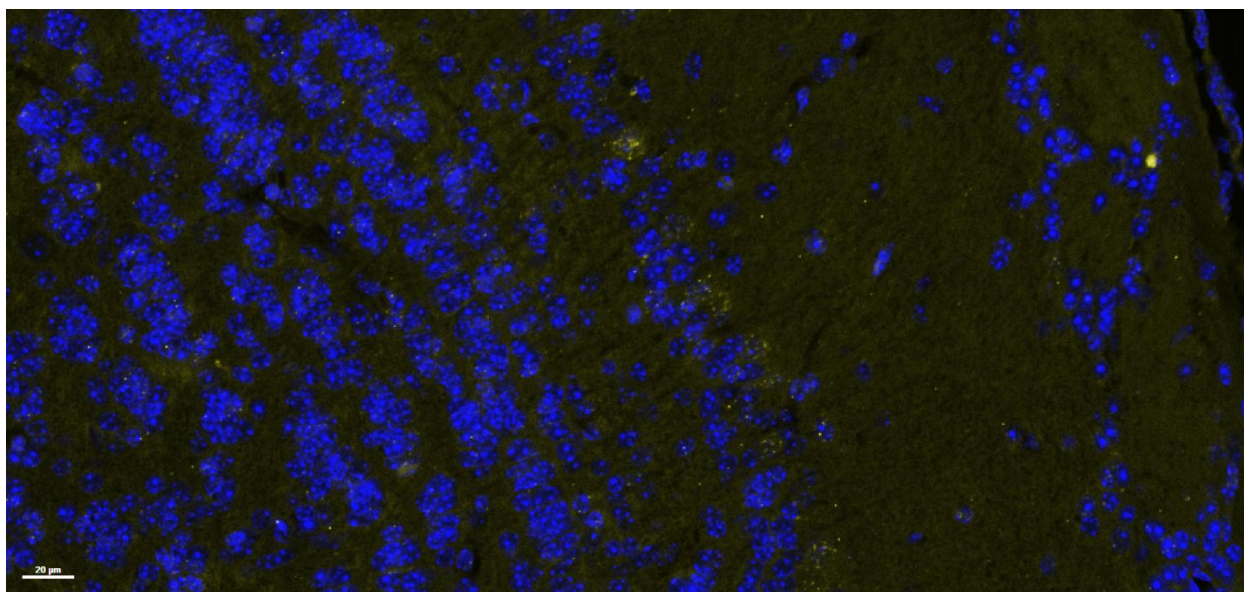


Fig. S4. Olfactory bulb, mitral cell layer. XLGα(olf) transcript (yellow) and DAPI (blue).

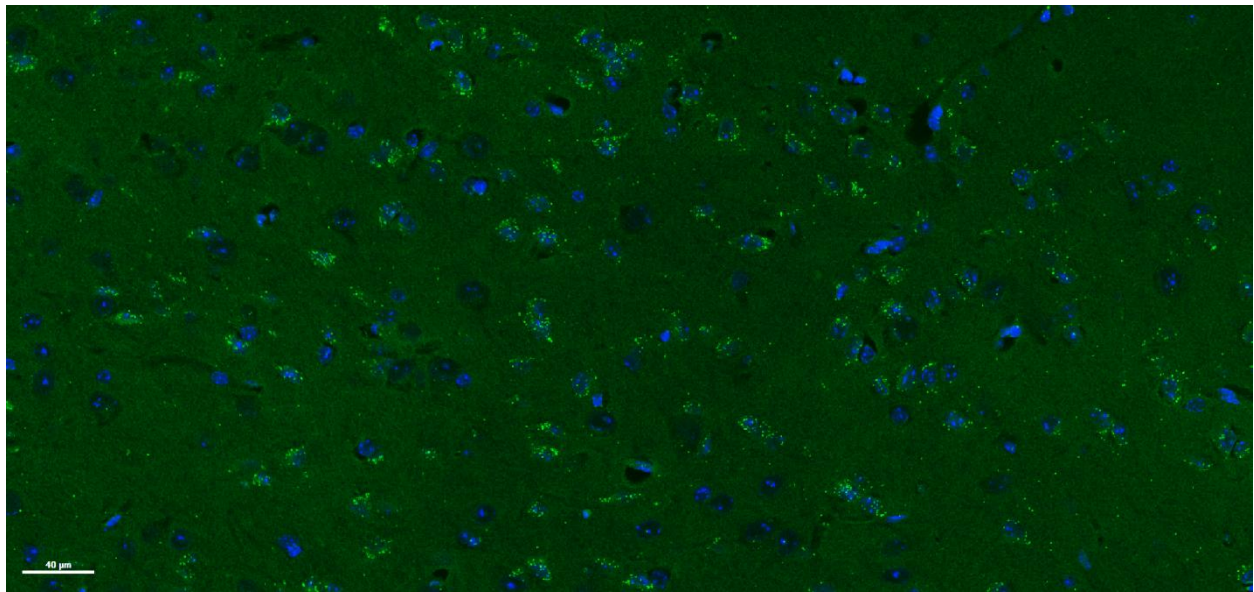


Fig. S5. Striatum. Ga(olf) transcript (green) and DAPI (blue).

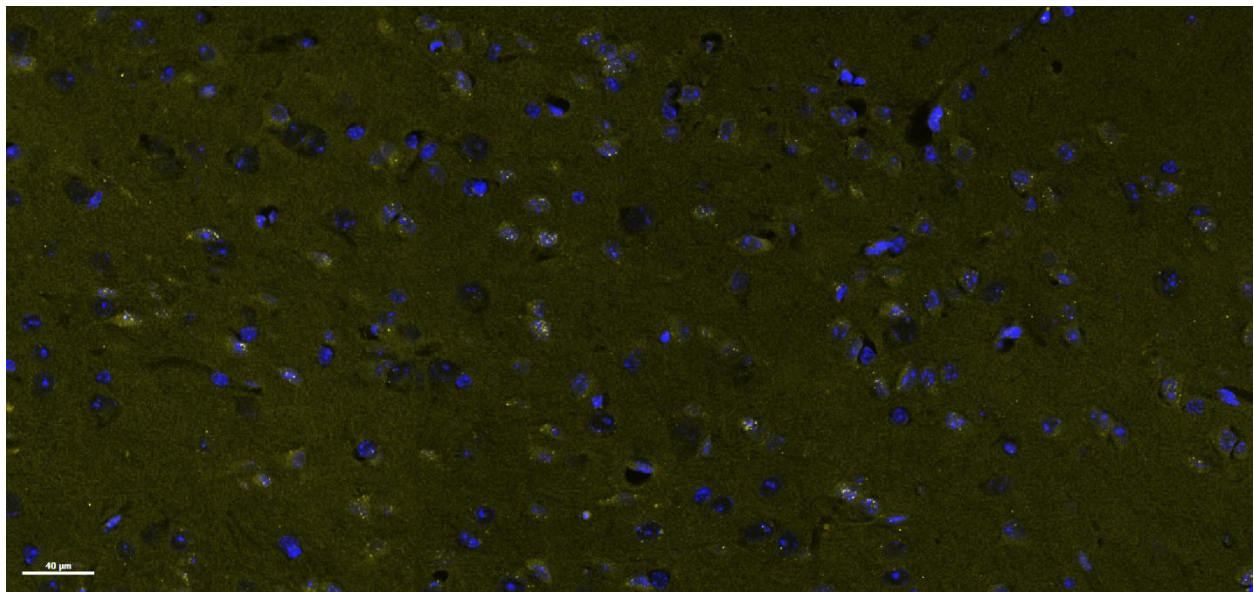


Fig. S6. Striatum. XLGa(olf) transcript (yellow) and DAPI (blue).