

Materials List for:

Lentivirus-mediated Genetic Manipulation and Visualization of Olfactory Sensory Neurons *in vivo*

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Materials

Microinjection: Newborn mice were microinjected using a 5 μ L Hamilton syringe (Hamilton #7647-01) fitted with a 33 gauge needle (Hamilton #7762-06).

Immunocytochemistry Reagents: Primary antibodies: rabbit polyclonal antibody GFP (Molecular Probes# A-6455), chicken polyclonal antibody against OMP (custom) (Chen et al., 2005), guinea pig polyclonal antibody against VGlut2 (Millipore# AB2251). Secondary antibodies: Cy2-conjugated donkey anti-rabbit (Jackson Immunolab# 711-225-152), Cy3-conjugated donkey-anti-chicken (Jackson Immunolab# 703-165-155) and Cy5-conjugated goat anti-guinea pig (Jackson Immunolab# 106-175-008). Sections were mounted on glass slides with Fluoromount G (Southern Biotech# 0010-01) with 50ng/mL DAPI chromatin stain solution.

Confocal Imaging: Z-stack images were taken using an Olympus Flouview FV1000 confocal microscope and images collected and processed into 3D projections using Olympus FV10-ASW 2.01 confocal acquisition and analysis software.