

Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

[pAAV-hSyn1-Flex-mRuby2-GSG-P2A-GCaMP6s-WPRE-pA](#)

RRID:Addgene_68720

Type: Plasmid

Proper Citation

RRID:Addgene_68720

Plasmid Information

URL: <http://www.addgene.org/68720>

Proper Citation: RRID:Addgene_68720

Insert Name: mRuby2-P2A-GCaMP6s

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:27284193](#)

Vector Backbone Description: Vector Backbone:pAAV; Vector Types:AAV; Bacterial Resistance:Ampicillin

Comments: mRuby2: Article: Improving FRET dynamic range with bright green and red fluorescent proteins. Lam et al (Nat Methods. 2012 Sep 9. doi: 10.1038/nmeth.2171. PubMed) Addgene Plasmid 40260 GCaMP6s: Article: Ultrasensitive fluorescent proteins for imaging neuronal activity. Chen et al (Nature. 2013 Jul 18;499(7458):295-300. doi: 10.1038/nature12354. PubMed) Addgene Plasmid 40753

Plasmid Name: pAAV-hSyn1-Flex-mRuby2-GSG-P2A-GCaMP6s-WPRE-pA

Relevant Mutation: Cre-dependent expression from inverted open reading frame (i.e. 'FLEXED')

Record Creation Time: 20220422T222427+0000

Record Last Update: 20260815T081851+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-hSyn1-Flex-mRuby2-GSG-P2A-GCaMP6s-WPRE-pA.

No alerts have been found for pAAV-hSyn1-Flex-mRuby2-GSG-P2A-GCaMP6s-WPRE-pA.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Jenks KR, et al. (2026) Functional organization of dendritic spines in mouse visual cortex layer 2/3 neurons. iScience, 29(6), 115861.

Tsimring K, et al. (2025) Large-scale synaptic dynamics drive the reconstruction of binocular circuits in mouse visual cortex. Nature communications, 16(1), 5810.

Liu J, et al. (2021) Diversity of Receptive Fields and Sideband Inhibition with Complex Thalamocortical and Intracortical Origin in L2/3 of Mouse Primary Auditory Cortex. The Journal of neuroscience : the official journal of the Society for Neuroscience, 41(14), 3142.

Liu J, et al. (2019) Parallel Processing of Sound Dynamics across Mouse Auditory Cortex via Spatially Patterned Thalamic Inputs and Distinct Areal Intracortical Circuits. Cell reports, 27(3), 872.