Resource Summary Report

Generated by dkNET on Sep 6, 2026

pAAV-CAG-Flex-mRuby2-GSG-P2A-GCaMP6s-WPRE-pA

RRID:Addgene_68717
Type: Plasmid

Proper Citation

RRID:Addgene_68717

Plasmid Information

URL: http://www.addgene.org/68717

Proper Citation: RRID:Addgene_68717

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-CAG-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: 20260905T080009+0000

Ratings and Alerts

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

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

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Williams LE, et al. (2025) Repetitive Sensory Stimulation Potentiates and Recruits Sensory-Evoked Cortical Population Activity. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(4).

Munz M, et al. (2023) Pyramidal neurons form active, transient, multilayered circuits perturbed by autism-associated mutations at the inception of neocortex. Cell, 186(9), 1930.

Currie SP, et al. (2022) Movement-specific signaling is differentially distributed across motor cortex layer 5 projection neuron classes. Cell reports, 39(6), 110801.

Gasselin C, et al. (2021) Cell-type-specific nicotinic input disinhibits mouse barrel cortex during active sensing. Neuron, 109(5), 778.

Melzer S, et al. (2021) Bombesin-like peptide recruits disinhibitory cortical circuits and enhances fear memories. Cell, 184(22), 5622.