

Resource Summary Report

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

[pAAV-hSyn1-mRuby2-GSG-P2A-GCaMP6f-WPRE-pA](#)

RRID:Addgene_50943

Type: Plasmid

Proper Citation

RRID:Addgene_50943

Plasmid Information

URL: <http://www.addgene.org/50943>

Proper Citation: RRID:Addgene_50943

Insert Name: mRuby2-P2A-GCaMP6f

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:27284193](#)

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

Comments: The discrepancies between the full sequence and Addgene's QC sequence should not have any functional consequence.

Plasmid Name: pAAV-hSyn1-mRuby2-GSG-P2A-GCaMP6f-WPRE-pA

Record Creation Time: 20220422T222301+0000

Record Last Update: 20260815T081613+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-hSyn1-mRuby2-GSG-P2A-GCaMP6f-WPRE-pA.

No alerts have been found for pAAV-hSyn1-mRuby2-GSG-P2A-GCaMP6f-WPRE-pA.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Saha S, et al. (2026) Nicotinamide Riboside Enhances Mitochondrial Bioenergetics and Dopaminergic Signaling Independent of Neuron Survival in a Double-Hit Parkinson's Model. Research square.

Dvorak NM, et al. (2025) Enhanced motivated behavior mediated by pharmacological targeting of the FGF14/Nav1.6 complex in nucleus accumbens neurons. Nature communications, 16(1), 110.

Pech U, et al. (2025) Synaptic deregulation of cholinergic projection neurons causes olfactory dysfunction across five fly Parkinsonism models. eLife, 13.

Ma W, et al. (2025) TAOK2 controls synaptic plasticity and anxiety via ERK and calcium signaling. iScience, 28(11), 113712.

Mikhaylova M, et al. (2018) Caldendrin Directly Couples Postsynaptic Calcium Signals to Actin Remodeling in Dendritic Spines. Neuron, 97(5), 1110.

Wozny C, et al. (2018) VGLUT2 Functions as a Differential Marker for Hippocampal Output Neurons. Frontiers in cellular neuroscience, 12, 337.