Resource Summary Report

Generated by dkNET on Aug 29, 2026

pAAV-hSyn1-mRuby2-GSG-P2A-GCaMP6s-WPRE-pA

RRID:Addgene_50942
Type: Plasmid

Proper Citation

RRID:Addgene_50942

Plasmid Information

URL: http://www.addgene.org/50942

Proper Citation: RRID:Addgene_50942

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

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

Record Creation Time: 20220422T222301+0000

Record Last Update: 20260829T080636+0000

Ratings and Alerts

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

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

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

McNally MA, et al. (2025) Ongoing loss of viable neurons for weeks after mild hypoxia-ischaemia. Brain communications, 7(2), fcaf153.

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).

van den Berg MM, et al. (2024) Sodium salicylate improves detection of amplitude-modulated sound in mice. iScience, 27(5), 109691.

McNally MA, et al. (2024) Ongoing loss of viable neurons for weeks after mild perinatal hypoxia-ischemia. bioRxiv : the preprint server for biology.

Yang L, et al. (2023) Nicotine rebalances NAD+ homeostasis and improves aging-related symptoms in male mice by enhancing NAMPT activity. Nature communications, 14(1), 900.

Suryavanshi P, et al. (2023) Brief excitotoxic insults cause a calpain-mediated increase in nuclear membrane permeability in neonatal neurons. bioRxiv : the preprint server for biology.

Davis BA, et al. (2023) TCF4 mutations disrupt synaptic function through dysregulation of RIMBP2 in patient-derived cortical neurons. bioRxiv : the preprint server for biology.

Rust R, et al. (2022) Xeno-free induced pluripotent stem cell-derived neural progenitor cells for in vivo applications. Journal of translational medicine, 20(1), 421.

Page SC, et al. (2022) Electrophysiological measures from human iPSC-derived neurons are associated with schizophrenia clinical status and predict individual cognitive performance. Proceedings of the National Academy of Sciences of the United States of America, 119(3).

Schumacher JW, et al. (2022) Selective enhancement of neural coding in V1 underlies fine-discrimination learning in tree shrew. Current biology : CB, 32(15), 3245.

Go MA, et al. (2021) Place Cells in Head-Fixed Mice Navigating a Floating Real-World Environment. Frontiers in cellular neuroscience, 15, 618658.

Agoglia RM, et al. (2021) Primate cell fusion disentangles gene regulatory divergence in neurodevelopment. Nature, 592(7854), 421.

Kon N, et al. (2021) Na+/Ca2+ exchanger mediates cold Ca2+ signaling conserved for temperature-compensated circadian rhythms. Science advances, 7(18).

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.

Hallin EI, et al. (2018) Structure of monomeric full-length ARC sheds light on molecular flexibility, protein interactions, and functional modalities. Journal of neurochemistry, 147(3), 323.

Hill RA, et al. (2017) Targeted two-photon chemical apoptotic ablation of defined cell types in vivo. Nature communications, 8, 15837.

Pag??s S, et al. (2015) Single cell electroporation for longitudinal imaging of synaptic structure and function in the adult mouse neocortex in vivo. Frontiers in neuroanatomy, 9, 36.