

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](#) on Apr 27, 2025

pAAV.Syn.GCaMP6m.WPRE.SV40

RRID:Addgene_100841

Type: Plasmid

Proper Citation

RRID:Addgene_100841

Plasmid Information

URL: <http://www.addgene.org/100841>

Proper Citation: RRID:Addgene_100841

Insert Name: GCaMP6m

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:23868258](#)

Vector Backbone Description: Vector Backbone:pAAV; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: This plasmid was previously available as pAAV.Syn.GCaMP6m.WPRE.SV40 (p2823) from the Penn Vector Core. This plasmid was created as part of the GENIE project at Janelia Research Campus.

Plasmid Name: pAAV.Syn.GCaMP6m.WPRE.SV40

Relevant Mutation: GCaMP3-T302L R303P M378G K379S D380Y T381R S383T R392G

Record Creation Time: 20220422T221450+0000

Record Last Update: 20220422T221457+0000

Ratings and Alerts

No rating or validation information has been found for pAAV.Syn.GCaMP6m.WPRE.SV40.

No alerts have been found for pAAV.Syn.GCaMP6m.WPRE.SV40.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 12 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Zhao X, et al. (2024) Alzheimer's disease protective allele of Clusterin modulates neuronal excitability through lipid-droplet-mediated neuron-glia communication. medRxiv : the preprint server for health sciences.

Koyanagi M, et al. (2024) Development of a 3-dimensional organotypic model with characteristics of peripheral sensory nerves. Cell reports methods, 4(8), 100835.

Gama de Barcellos Filho P, et al. (2024) Oxytocin and corticotropin-releasing hormone exaggerate nucleus tractus solitarii neuronal and synaptic activity following chronic intermittent hypoxia. The Journal of physiology, 602(14), 3375.

Stanley S, et al. (2024) Amygdala-liver signaling orchestrates rapid glycemic responses to stress and drives stress-induced metabolic dysfunction. Research square.

Masala N, et al. (2024) Aberrant hippocampal Ca²⁺ microwaves following synapsin-dependent adeno-associated viral expression of Ca²⁺ indicators. eLife, 13.

Masala N, et al. (2023) Aberrant hippocampal Ca²⁺ micro-waves following synapsin-dependent adenoviral expression of Ca²⁺ indicators. bioRxiv : the preprint server for biology.

Jung S, et al. (2022) A forebrain neural substrate for behavioral thermoregulation. Neuron, 110(2), 266.

Bowles S, et al. (2022) Vagus nerve stimulation drives selective circuit modulation through cholinergic reinforcement. Neuron, 110(17), 2867.

Sych Y, et al. (2022) Dynamic reorganization of the cortico-basal ganglia-thalamo-cortical network during task learning. Cell reports, 40(12), 111394.

Jiang Y, et al. (2021) Selective increase of correlated activity in Arc-positive neurons after chemically induced long-term potentiation in cultured hippocampal neurons. eNeuro, 8(6).

Henschke JU, et al. (2021) Enhanced modulation of cell-type specific neuronal responses in

mouse dorsal auditory field during locomotion. *Cell calcium*, 96, 102390.

Lima-Silveira L, et al. (2020) Mechanisms Underlying Neuroplasticity in the Nucleus Tractus Solitarii Following Hindlimb Unloading in Rats. *Neuroscience*, 449, 214.