

Resource Summary Report

Generated by [NIF](#) on Sep 14, 2026

pAAV.Syn.Flex.GCaMP6f.WPRE.SV40

RRID:Addgene_100833

Type: Plasmid

Proper Citation

RRID:Addgene_100833

Plasmid Information

URL: <http://www.addgene.org/100833>

Proper Citation: RRID:Addgene_100833

Insert Name: GCaMP6f

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.Flex.GCaMP6f.WPRE.SV40 (p2819) from the Penn Vector Core. This plasmid was created as part of the GENIE project at Janelia Research Campus.

Plasmid Name: pAAV.Syn.Flex.GCaMP6f.WPRE.SV40

Relevant Mutation: GCaMP3-T302L R303P A317E D380Y T381R S383T R392G

Record Creation Time: 20220422T221450+0000

Record Last Update: 20260912T091340+0000

Ratings and Alerts

No rating or validation information has been found for pAAV.Syn.Flex.GCaMP6f.WPRE.SV40.

No alerts have been found for pAAV.Syn.Flex.GCaMP6f.WPRE.SV40.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 69 mentions in open access literature.

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

Nitahara K, et al. (2026) Defective ventral neurogenesis due to midfetal Chd8 mutation drives autistic-like behavior in mice. Nature communications, 17(1).

Marshall JJ, et al. (2026) Synaptic mechanisms modulate the spatiotemporal dynamics of striatal direct pathway neurons and motor output. eLife, 13.

Lewis E, et al. (2026) D3 dopamine receptors implicate a striatal neuronal subtype in the aversive effects of the antipsychotic drug quetiapine. bioRxiv : the preprint server for biology.

Park E, et al. (2025) Somatostatin neurons detect stimulus-reward contingencies to reduce neocortical inhibition during learning. Cell reports, 44(5), 115606.

Fujima S, et al. (2025) Parvalbumin interneurons in the insular cortex control social familiarity and emotion recognition. Cell reports, 116085.

Ranjbar-Slamloo Y, et al. (2025) Aging disrupts the link between network centrality and functional properties of prefrontal neurons during memory-guided behavior. Communications biology, 8(1), 62.

Dong HW, et al. (2025) Neural Networks of the Mouse Primary Visceromotor Cortex. Research square.

Lefner MJ, et al. (2025) Flexible updating of reward and punishment contingencies by VTA GABA neurons. Current biology : CB, 35(16), 3973.

Cichon J, et al. (2025) Nitrous oxide activates layer 5 prefrontal neurons via SK2 channel inhibition for antidepressant effect. Nature communications, 16(1), 2999.

Locantore J, et al. (2025) Mixed representations of choice direction and outcome by GABA/glutamate cotransmitting neurons in the entopeduncular nucleus. eLife, 13.

Campelo T, et al. (2025) REM sleep reduces subthreshold depolarization in cortical pyramidal neurons in a region-specific manner. Cell reports, 44(11), 116506.

Lo H, et al. (2025) Feeding-induced olfactory cortex suppression reduces satiation. Neuron, 113(17), 2856.

Hong CY, et al. (2025) Anterior hypothalamic nucleus drives distinct defensive responses through cell-type-specific activity. iScience, 28(4), 112097.

Ahmadlou M, et al. (2025) A subcortical switchboard for perseverative, exploratory and disengaged states. *Nature*, 641(8061), 151.

Loh MK, et al. (2025) Dopamine activity encodes the changing valence of the same stimulus in conditioned taste aversion paradigms. *eLife*, 13.

Jáidar O, et al. (2025) Refinement of efficient encodings of movement in the dorsolateral striatum throughout learning. *Cell reports*, 44(9), 116229.

Bortolozzo-Gleich MH, et al. (2025) Impaired vasopressin neuromodulation of the lateral septum leads to social behavior deficits in Shank3B^{+/-} male mice. *Nature communications*, 16(1), 6783.

Inácio AR, et al. (2025) Brain-wide presynaptic networks of functionally distinct cortical neurons. *Nature*, 641(8061), 162.

Brécier A, et al. (2025) Layer 1 NDNF interneurons form distinct subpopulations with opposite activation patterns during sleep in freely behaving mice. *Proceedings of the National Academy of Sciences of the United States of America*, 122(33), e2503139122.

Fei Y, et al. (2025) Coordination of distinct sources of excitatory inputs enhances motion selectivity in the mouse visual thalamus. *Neuron*.