Resource Summary Report

Generated by dkNET on Jul 29, 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: 20260725T073339+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 66 mentions in open access literature.

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

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.

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.

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.

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

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

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

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

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.

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

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.

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

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

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

Li K, et al. (2024) Distinct ventral hippocampal inhibitory microcircuits regulating anxiety and fear behaviors. Nature communications, 15(1), 8228.

Palmer D, et al. (2024) Ventral pallidum neurons projecting to the ventral tegmental area reinforce but do not invigorate reward-seeking behavior. Cell reports, 43(1), 113669.

de Brito Van Velze M, et al. (2024) Feedforward and disinhibitory circuits differentially control activity of cortical somatostatin interneurons during behavioral state transitions. Cell reports, 43(5), 114197.