

Resource Summary Report

Generated by [dkNET](#) on Aug 6, 2026

pAAV.CAG.Flex.GCaMP6m.WPRE.SV40

RRID:Addgene_100839

Type: Plasmid

Proper Citation

RRID:Addgene_100839

Plasmid Information

URL: <http://www.addgene.org/100839>

Proper Citation: RRID:Addgene_100839

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.CAG.Flex.GCaMP6m.WPRE.SV40 (p2817) from the Penn Vector Core. This plasmid was created as part of the GENIE project at Janelia Research Campus.

Plasmid Name: pAAV.CAG.Flex.GCaMP6m.WPRE.SV40

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

Record Creation Time: 20220422T221450+0000

Record Last Update: 20260801T075805+0000

Ratings and Alerts

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

No alerts have been found for pAAV.CAG.Flex.GCaMP6m.WPRE.SV40.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Zafiri D, et al. (2025) Dopamine prediction error signaling in a unique nigrostriatal circuit is critical for associative fear learning. *Nature communications*, 16(1), 3066.

Leithead AB, et al. (2024) Social Interaction Elicits Activity in Glutamatergic Neurons in the Posterior Intralaminar Complex of the Thalamus. *Biological psychiatry*, 95(2), 112.

Zachry JE, et al. (2024) D1 and D2 medium spiny neurons in the nucleus accumbens core have distinct and valence-independent roles in learning. *Neuron*, 112(5), 835.

Ortiz-Guzman J, et al. (2024) Cholinergic Basal Forebrain Connectivity to the Basolateral Amygdala Modulates Food Intake. *eNeuro*, 11(3).

Serikov A, et al. (2024) Protocol for in vivo dual-color fiber photometry in the mouse thalamus. *STAR protocols*, 5(2), 102931.

Molas S, et al. (2024) Dopamine control of social novelty preference is constrained by an interpeduncular-tegmentum circuit. *Nature communications*, 15(1), 2891.

Lu J, et al. (2022) Somatosensory cortical signature of facial nociception and vibrotactile touch-induced analgesia. *Science advances*, 8(46), eabn6530.

Swanson JL, et al. (2022) Activation of basal forebrain-to-lateral habenula circuitry drives reflexive aversion and suppresses feeding behavior. *Scientific reports*, 12(1), 22044.

Klenowski PM, et al. (2022) Dynamic activity of interpeduncular nucleus GABAergic neurons controls expression of nicotine withdrawal in male mice.

Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology, 47(3), 641.

Breton-Provencher V, et al. (2022) Spatiotemporal dynamics of noradrenaline during learned behaviour. *Nature*, 606(7915), 732.

Patel JM, et al. (2019) Sensory perception drives food avoidance through excitatory basal forebrain circuits. *eLife*, 8.