Resource Summary Report

Generated by dkNET on Jul 29, 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: 20260725T073339+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.