Resource Summary Report

Generated by dkNET on Aug 16, 2026

pAAV.CAG.GCaMP6f.WPRE.SV40

RRID:Addgene_100836
Type: Plasmid

Proper Citation

RRID:Addgene_100836

Plasmid Information

URL: http://www.addgene.org/100836

Proper Citation: RRID:Addgene_100836

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.CAG.GCaMP6f.WPRE.SV40 (P3081) from the Penn Vector Core. This plasmid was created as part of the GENIE project at Janelia Research Campus.

Plasmid Name: pAAV.CAG.GCaMP6f.WPRE.SV40

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

Record Creation Time: 20220422T221450+0000

Record Last Update: 20260815T080015+0000

Ratings and Alerts

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

No alerts have been found for pAAV.CAG.GCaMP6f.WPRE.SV40.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Zhang C, et al. (2026) Mechanoadaptation via Myosin Cytoplasmic Redistribution Protects Circulating Tumor Cells From Shear-induced Death During Hematogenous Dissemination. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(33), e23112.

Bohl JM, et al. (2026) Long-distance object motion evokes direction selectivity in retinal neurons through nicotinic receptors in bipolar cells. Journal of neurophysiology, 136(1), 34.

Gershon Z, et al. (2026) Genetic mapping identifies Homer1 as a developmental modifier of attention. Nature neuroscience, 29(3), 647.

Iqbal J, et al. (2026) A prelimbic molecular clock of protein synthesis for memory persistence. bioRxiv : the preprint server for biology.

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

Zak JD, et al. (2024) Distinct information conveyed to the olfactory bulb by feedforward input from the nose and feedback from the cortex. Nature communications, 15(1), 3268.

Osaki T, et al. (2024) Early differential impact of MeCP2 mutations on functional networks in Rett syndrome patient-derived human cerebral organoids. bioRxiv : the preprint server for biology.

Campbell EP, et al. (2023) Electrical signals in the ER are cell type and stimulus specific with extreme spatial compartmentalization in neurons. Cell reports, 42(1), 111943.

Mackevicius EL, et al. (2023) Self-organization of songbird neural sequences during social isolation. eLife, 12.

Kundu S, et al. (2022) High throughput 3D gel-based neural organotypic model for cellular assays using fluorescence biosensors. Communications biology, 5(1), 1236.

Murakami T, et al. (2022) Modular strategy for development of the hierarchical visual network in mice. Nature, 608(7923), 578.

Chen APF, et al. (2022) Nigrostriatal dopamine pathway regulates auditory discrimination behavior. Nature communications, 13(1), 5942.

Zhang J, et al. (2021) Lsm12 is an NAADP receptor and a two-pore channel regulatory protein required for calcium mobilization from acidic organelles. Nature communications, 12(1), 4739.

Liu J, et al. (2021) A Simple and Efficient Method to Generate Gene-Knockout and Transgenic Cell Lines. DNA and cell biology, 40(2), 239.

MacDonald DI, et al. (2021) A central mechanism of analgesia in mice and humans lacking the sodium channel NaV1.7. Neuron, 109(9), 1497.

Hsiao K, et al. (2020) A Thalamic Orphan Receptor Drives Variability in Short-Term Memory. Cell, 183(2), 522.

Mackevicius EL, et al. (2019) Unsupervised discovery of temporal sequences in high-dimensional datasets, with applications to neuroscience. eLife, 8.