

Resource Summary Report

Generated by [NIF](#) on Sep 11, 2026

pAAV-CaMKII-GFP

RRID:Addgene_64545

Type: Plasmid

Proper Citation

RRID:Addgene_64545

Plasmid Information

URL: <http://www.addgene.org/64545>

Proper Citation: RRID:Addgene_64545

Insert Name: GFP

Organism: Synthetic

Bacterial Resistance: Ampicillin

Vector Backbone Description: Backbone Marker:Scott Sternson; Backbone Size:5088; Vector Backbone:AAV; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: The plasmid is fully sequenced in the coding sequence regions (fluorophore and important flanking regions). Multiple digestions were done to verify the vector structure. The construct and the virus were both tested in vitro. In addition, the published CaMKII promoter contains 10 basepair differences vs. the wild-type, and that persists here.

Plasmid Name: pAAV-CaMKII-GFP

Record Creation Time: 20220422T222409+0000

Record Last Update: 20260905T075931+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-CaMKII-GFP.

No alerts have been found for pAAV-CaMKII-GFP.

Data and Source Information

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Wang Y, et al. (2026) Neuronal competition shapes the encoding, consolidation, and retrieval of precise spatial memories in mice. *Current biology : CB*, 36(9), 2255.

Ji J, et al. (2025) KCC2 inhibition and neuronal hyperexcitability promote extrinsic apoptosis dependent upon C1q. *Frontiers in molecular neuroscience*, 18, 1645428.

Papanikolaou A, et al. (2025) Selectively vulnerable deep cortical layer 5/6 fast-spiking interneurons in Alzheimer's disease models in vivo. *Neuron*, 113(14), 2265.

Bayraktar E, et al. (2023) In vitro effects of eslicarbazepine (S-licarbazepine) as a potential precision therapy on SCN8A variants causing neuropsychiatric disorders. *British journal of pharmacology*, 180(8), 1038.

Herron RS, et al. (2023) A twin UGUA motif directs the balance between gene isoforms through CFIm and the mTORC1 signaling pathway. *eLife*, 12.

Lyu H, et al. (2023) Clinical and electrophysiological features of SCN8A variants causing episodic or chronic ataxia. *EBioMedicine*, 98, 104855.

Sánchez-Bellot C, et al. (2022) Two opposing hippocampus to prefrontal cortex pathways for the control of approach and avoidance behaviour. *Nature communications*, 13(1), 339.

AlSubaie R, et al. (2021) Control of parallel hippocampal output pathways by amygdalar long-range inhibition. *eLife*, 10.

Akam T, et al. (2021) The Anterior Cingulate Cortex Predicts Future States to Mediate Model-Based Action Selection. *Neuron*, 109(1), 149.

Keaveney MK, et al. (2020) CaMKII γ -Positive Interneurons Identified via a microRNA-Based Viral Gene Targeting Strategy. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 40(50), 9576.

Nakazato Y, et al. (2020) Neurons promote encephalitogenic CD4 $^{+}$ lymphocyte infiltration in experimental autoimmune encephalomyelitis. *Scientific reports*, 10(1), 7354.

Puls B, et al. (2020) Regeneration of Functional Neurons After Spinal Cord Injury via in situ NeuroD1-Mediated Astrocyte-to-Neuron Conversion. *Frontiers in cell and developmental biology*, 8, 591883.

Neely RM, et al. (2018) Volitional Modulation of Primary Visual Cortex Activity Requires the Basal Ganglia. *Neuron*, 97(6), 1356.

Dunn M, et al. (2018) Identification of Fluorescent Small Molecule Compounds for Synaptic Labeling by Image-Based, High-Content Screening. *ACS chemical neuroscience*, 9(4), 673.

Keaveney MK, et al. (2018) A MicroRNA-Based Gene-Targeting Tool for Virally Labeling Interneurons in the Rodent Cortex. *Cell reports*, 24(2), 294.

Liu Y, et al. (2018) Social Isolation Induces Rac1-Dependent Forgetting of Social Memory. *Cell reports*, 25(2), 288.