

Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

pAAV-CaMKIIa-EGFP

RRID:Addgene_50469

Type: Plasmid

Proper Citation

RRID:Addgene_50469

Plasmid Information

URL: <http://www.addgene.org/50469>

Proper Citation: RRID:Addgene_50469

Insert Name: EGFP

Organism: Aequorea victoria

Bacterial Resistance: Ampicillin

Vector Backbone Description: Backbone Size:4818; Vector Backbone:pAAV; Vector Types:AAV; Bacterial Resistance:Ampicillin

Comments: These plasmids were generated as part of the Illuminating the Druggable Genome (IDG) program sponsored by the NIH Common Fund. The goal of this program is to identify, gather, and distribute information and resources for proteins that currently are not well-studied yet belong to commonly drug-targeted protein families: protein kinases, non-olfactory G-protein coupled receptors (GPCRs), and ion channels. The IDG program is designed to develop fundamental research tools for understudied proteins, elucidate their function, and disseminate the IDG-related resources and data to the greater scientific community.

Plasmid Name: pAAV-CaMKIIa-EGFP

Record Creation Time: 20220422T222258+0000

Record Last Update: 20260815T081606+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-CaMKIIa-EGFP.

No alerts have been found for pAAV-CaMKIIa-EGFP.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 74 mentions in open access literature.

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

Gardner W, et al. (2026) The mPFC molecular clock mediates the effects of sleep deprivation on depression-like behavior and regulates sleep consolidation and homeostasis. *Molecular psychiatry*, 31(3), 1530.

Francis-Oliveira J, et al. (2026) Adolescent social isolation creates a latent vulnerability in maternal care with intergenerational social consequences, rescued by experienced mothers. *bioRxiv : the preprint server for biology*.

Chen SY, et al. (2026) Activity-dependent development of vocal circuits in the neonatal rodent forebrain. *EMBO reports*, 27(13), 3632.

Wright WJ, et al. (2026) Local plasticity underlies the reorganization of cortical circuit dynamics during motor learning. *Current biology : CB*, 36(12), 3020.

Kim SH, et al. (2026) Remodeling synaptic connections via engineered neuron-astrocyte interactions. *Nature communications*, 17(1).

Locarno A, et al. (2026) Endocannabinoid modulation of a reciprocal fronto-coerulear connection in contextual discrimination. *Cell reports*, 45(4), 117141.

Moretto E, et al. (2026) Aberrant tau accumulation caused by MAPT mutations induces early pathological changes in axonal transport that are rescued by p38 γ inhibition. *Nature neuroscience*, 29(6), 1355.

Tensaouti Y, et al. (2025) Contribution of Rat Insular Cortex to Stimulus-Guided Action. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 45(13).

Dovek L, et al. (2025) Differential Glutamatergic Inputs to Semilunar Granule Cells and Granule Cells Underscore Dentate Gyrus Projection Neuron Diversity. *bioRxiv : the preprint server for biology*.

Kaur N, et al. (2025) Specification of claustror-amygdalar and palaeocortical neurons and circuits. *Nature*, 638(8050), 469.

Patterson D, et al. (2025) Ventral hippocampus to nucleus accumbens shell circuit regulates approach decisions during motivational conflict. *PLoS biology*, 23(1), e3002722.

Ding Z, et al. (2025) SFRS8 Regulates Memory by Modulating RNA Splicing of Synaptic Genes. *Molecular neurobiology*, 62(10), 12523.

Yang SS, et al. (2025) Transient Inhibition of the Mediodorsal Thalamus During Early Adolescence Induces Hypofrontality and Social Memory Deficits in Young Adulthood. *Biological psychiatry global open science*, 5(4), 100486.

Barnard IL, et al. (2025) Activity of CaMKII-expressing neurons in medial prefrontal cortex of male and female Long-Evans rats is necessary for encoding odor information and novelty recognition in an odor-based incidental memory test. *Cerebral cortex (New York, N.Y. : 1991)*, 35(8).

McCoy C, et al. (2025) Focal postnatal deletion of Tsc2 causes epilepsy. *Frontiers in molecular neuroscience*, 18, 1686023.

Chen KH, et al. (2025) Loss of the proton-activated chloride channel in neurons impairs AMPA receptor endocytosis and LTD via endosomal hyper-acidification. *Cell reports*, 44(2), 115302.

Seo J, et al. (2025) Acquisition phase-specific contribution of climbing fiber transmission to cerebellum-dependent motor memory in mice. *eLife*, 13.

Liu Y, et al. (2025) Co-Conservation of synaptic gene expression and circuitry in collicular neurons. *Nature communications*, 16(1), 9146.

Reéb Z, et al. (2025) Morphological and electrophysiological diversity and connectivity of principal neurons in the lateral and basal nuclei of the mouse amygdala. *Scientific reports*, 15(1), 33675.

Neyama H, et al. (2025) Opioidergic activation of the descending pain inhibitory system underlies placebo analgesia. *Science advances*, 11(3), eadp8494.