

Resource Summary Report

Generated by [RRID](#) on Aug 30, 2026

GFP-C1-CAMKIIalpha

RRID:Addgene_21226

Type: Plasmid

Proper Citation

RRID:Addgene_21226

Plasmid Information

URL: <http://www.addgene.org/21226>

Proper Citation: RRID:Addgene_21226

Insert Name: CAMKIIalpha

Organism: Rattus norvegicus

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:9768845](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4725; Vector Backbone:C1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: GFP-C1-CAMKIIalpha

Relevant Mutation: Lab plasmid KS 0001.

Record Creation Time: 20220422T222054+0000

Record Last Update: 20260829T080200+0000

Ratings and Alerts

No rating or validation information has been found for GFP-C1-CAMKIIalpha.

No alerts have been found for GFP-C1-CAMKIIalpha.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Brown CN, et al. (2025) CaMKII monomers are sufficient for GluN2B binding, co-condensation, and synaptic potentiation. bioRxiv : the preprint server for biology.

Wang Y, et al. (2023) Atypical peripheral actin band formation via overactivation of RhoA and nonmuscle myosin II in mitofusin 2-deficient cells. eLife, 12.

Zhan Q, et al. (2022) CAMK2/CaMKII activates MLKL in short-term starvation to facilitate autophagic flux. Autophagy, 18(4), 726.

Kim KR, et al. (2021) Calbindin regulates Kv4.1 trafficking and excitability in dentate granule cells via CaMKII-dependent phosphorylation. Experimental & molecular medicine, 53(7), 1134.

Emperador-Melero J, et al. (2021) PKC-phosphorylation of Liprin-?3 triggers phase separation and controls presynaptic active zone structure. Nature communications, 12(1), 3057.

Hwang H, et al. (2021) Cyclin Y, a novel actin-binding protein, regulates spine plasticity through the cofilin-actin pathway. Progress in neurobiology, 198, 101915.

Guo X, et al. (2021) Preservation of vision after CaMKII-mediated protection of retinal ganglion cells. Cell, 184(16), 4299.

Zemoura K, et al. (2019) Ca²⁺/Calmodulin-Dependent Protein Kinase II (CaMKII) ?-Dependent Phosphorylation of GABAB1 Triggers Lysosomal Degradation of GABAB Receptors via Mind Bomb-2 (MIB2)-Mediated Lys-63-Linked Ubiquitination. Molecular neurobiology, 56(2), 1293.

Wang Q, et al. (2016) Mechanistic study of TRPM2-Ca(2+)-CAMK2-BECN1 signaling in oxidative stress-induced autophagy inhibition. Autophagy, 12(8), 1340.

Melgarejo da Rosa M, et al. (2016) Synaptic GluN2B/CaMKII-? Signaling Induces Synapto-Nuclear Transport of ERK and Jacob. Frontiers in molecular neuroscience, 9, 66.