

Resource Summary Report

Generated by [dkNET](#) on Aug 25, 2026

GFP-C1-CAMKIIbeta

RRID:Addgene_21227

Type: Plasmid

Proper Citation

RRID:Addgene_21227

Plasmid Information

URL: <http://www.addgene.org/21227>

Proper Citation: RRID:Addgene_21227

Insert Name: CAMKIIbeta

Organism: Rattus norvegicus

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:9768845](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4731; Vector Backbone:C1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: GFP-C1-CAMKIIbeta

Relevant Mutation: Lab plasmid KS 0002.

Record Creation Time: 20220422T222054+0000

Record Last Update: 20260815T081201+0000

Ratings and Alerts

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

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

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](#) .

Nhieu J, et al. (2023) Targeting Cellular Retinoic Acid Binding Protein 1 with Retinoic Acid-like Compounds to Mitigate Motor Neuron Degeneration. International journal of molecular sciences, 24(5).

Lin YL, et al. (2022) CRABP1-CaMKII-Agrn regulates the maintenance of neuromuscular junction in spinal motor neuron. Cell death and differentiation, 29(9), 1744.

Zernov N, et al. (2022) CaMKII γ knockdown decreases store-operated calcium entry in hippocampal dendritic spines. IBRO neuroscience reports, 12, 90.

Zernov N, et al. (2022) Piperazine Derivative Stabilizes Actin Filaments in Primary Fibroblasts and Binds G-Actin In Silico. Current issues in molecular biology, 44(11), 5191.

Shibata ACE, et al. (2021) Photoactivatable CaMKII induces synaptic plasticity in single synapses. Nature communications, 12(1), 751.

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) γ -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.

Incontro S, et al. (2018) The CaMKII/NMDA receptor complex controls hippocampal synaptic transmission by kinase-dependent and independent mechanisms. Nature communications, 9(1), 2069.

Heidarinejad M, et al. (2018) Stimulation-induced changes in diffusion and structure of calmodulin and calmodulin-dependent protein kinase II proteins in neurons. Neuroscience research, 136, 13.

Mikhaylova M, et al. (2018) Caldendrin Directly Couples Postsynaptic Calcium Signals to Actin Remodeling in Dendritic Spines. Neuron, 97(5), 1110.