

Resource Summary Report

Generated by [dkNET](#) on Aug 23, 2026

CIBN-CAAX

RRID:Addgene_79574

Type: Plasmid

Proper Citation

RRID:Addgene_79574

Plasmid Information

URL: <http://www.addgene.org/79574>

Proper Citation: RRID:Addgene_79574

Insert Name: CIBN

Organism: Arabidopsis thaliana

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:22847441](#)

Vector Backbone Description: Backbone Marker:C. Tucker, University of Colorado Denver; Vector Backbone:CIBN-GFP-CAAX; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: Mutations K93A, R94A, K106A, K107A are mutations of putative nuclear localisation signals in CIB1.

Plasmid Name: CIBN-CAAX

Relevant Mutation: K93A, R94A, K106A, K107A (please see depositor comments below)

Record Creation Time: 20220422T222521+0000

Record Last Update: 20260815T082031+0000

Ratings and Alerts

No rating or validation information has been found for CIBN-CAAX.

No alerts have been found for CIBN-CAAX.

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 [dkNET](#) .

Humer C, et al. (2024) Bidirectional Allosteric Coupling between PIP2 Binding and the Pore of the Oncochannel TRPV6. *International journal of molecular sciences*, 25(1).

Hoang HTM, et al. (2024) Application of bioluminescence resonance energy transfer assays in primary mouse neuronal cultures. *STAR protocols*, 5(3), 103228.

Deng Y, et al. (2024) PIP5K-Ras bistability initiates plasma membrane symmetry breaking to regulate cell polarity and migration. *bioRxiv : the preprint server for biology*.

George K, et al. (2024) Robust GRK2/3/6-dependent desensitization of oxytocin receptor in neurons. *iScience*, 27(6), 110047.

Driscoll MK, et al. (2024) Proteolysis-free amoeboid migration of melanoma cells through crowded environments via bleb-driven worrying. *Developmental cell*, 59(18), 2414.

Pal DS, et al. (2023) Optogenetic modulation of guanine nucleotide exchange factors of Ras superfamily proteins directly controls cell shape and movement. *Frontiers in cell and developmental biology*, 11, 1195806.

Gada KD, et al. (2023) Imaging Membrane Proteins Using Total Internal Reflection Fluorescence Microscopy (TIRFM) in Mammalian Cells. *Bio-protocol*, 13(4), e4614.

Méry A, et al. (2023) Light-driven biological actuators to probe the rheology of 3D microtissues. *Nature communications*, 14(1), 717.

Pal DS, et al. (2023) Actuation of single downstream nodes in growth factor network steers immune cell migration. *Developmental cell*, 58(13), 1170.

Omar-Hmeadi M, et al. (2023) Local PI(4,5)P2 signaling inhibits fusion pore expansion during exocytosis. *Cell reports*, 42(2), 112036.

Abd El-Aziz TM, et al. (2022) Optogenetic Control of PIP2 Interactions Shaping ENaC Activity. *International journal of molecular sciences*, 23(7).

Banerjee T, et al. (2022) Spatiotemporal dynamics of membrane surface charge regulates cell polarity and migration. *Nature cell biology*, 24(10), 1499.

Ju J, et al. (2022) Optical regulation of endogenous RhoA reveals selection of cellular responses by signal amplitude. *Cell reports*, 40(2), 111080.

Archer CR, et al. (2020) Phosphatidylinositol 4,5-bisphosphate directly interacts with the α and β subunits of the sodium channel ENaC. *The Journal of biological chemistry*, 295(23), 7958.

Welf ES, et al. (2020) Actin-Membrane Release Initiates Cell Protrusions. *Developmental cell*, 55(6), 723.

Mukherjee A, et al. (2020) CL6mN: Rationally Designed Optogenetic Photoswitches with Tunable Dissociation Dynamics. *ACS synthetic biology*, 9(9), 2274.