

Resource Summary Report

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

pcDNA3-EGFP-Cdc42(Q61L)

RRID:Addgene_12600

Type: Plasmid

Proper Citation

RRID:Addgene_12600

Plasmid Information

URL: <http://www.addgene.org/12600>

Proper Citation: RRID:Addgene_12600

Insert Name: EGFP-Cdc42 (Q61L)

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:15361624](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5500; Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Protocols for production and use of Hahn lab biosensors and photactivatable proteins can be found on their web page, at the URL below. If you have suggestions for the protocols or have any questions, please feel free to contact the Hahn lab. Good luck with your experiments! Hahn lab biosensor protocol: <http://www.hahnlab.com/tools/index.html>

Plasmid Name: pcDNA3-EGFP-Cdc42(Q61L)

Relevant Mutation: Q61L

Record Creation Time: 20220422T221700+0000

Record Last Update: 20260815T080420+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3-EGFP-Cdc42(Q61L).

No alerts have been found for pcDNA3-EGFP-Cdc42(Q61L).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Yu Y, et al. (2023) Self-assembly of CIP4 drives actin-mediated asymmetric pit-closing in clathrin-mediated endocytosis. *Nature communications*, 14(1), 4602.

Yankaskas CL, et al. (2021) The fluid shear stress sensor TRPM7 regulates tumor cell intravasation. *Science advances*, 7(28).

Medina CM, et al. (2021) Trypanosoma cruzi extracellular amastigotes engage Rac1 and Cdc42 to invade RAW macrophages. *Microbes and infection*, 23(8), 104837.

Vallejo D, et al. (2021) Wnt5a modulates dendritic spine dynamics through the regulation of Cofilin via small Rho GTPase activity in hippocampal neurons. *Journal of neurochemistry*, 158(3), 673.

Salameh J, et al. (2021) Cdc42 and its BORG2 and BORG3 effectors control the subcellular localization of septins between actin stress fibers and microtubules. *Current biology : CB*, 31(18), 4088.

Mukhamedova N, et al. (2019) Exosomes containing HIV protein Nef reorganize lipid rafts potentiating inflammatory response in bystander cells. *PLoS pathogens*, 15(7), e1007907.

Bonfim-Melo A, et al. (2018) Rac1/WAVE2 and Cdc42/N-WASP Participation in Actin-Dependent Host Cell Invasion by Extracellular Amastigotes of Trypanosoma cruzi. *Frontiers in microbiology*, 9, 360.

O'Loughlin T, et al. (2018) The MYO6 interactome reveals adaptor complexes coordinating early endosome and cytoskeletal dynamics. *EMBO reports*, 19(4).

Lomakin AJ, et al. (2015) Competition for actin between two distinct F-actin networks defines a bistable switch for cell polarization. *Nature cell biology*, 17(11), 1435.

Baschieri F, et al. (2014) Spatial control of Cdc42 signalling by a GM130-RasGRF complex regulates polarity and tumorigenesis. *Nature communications*, 5, 4839.

Jagan I, et al. (2013) Rescue of glandular dysmorphogenesis in PTEN-deficient colorectal cancer epithelium by PPAR γ -targeted therapy. *Oncogene*, 32(10), 1305.

Nikolic DS, et al. (2011) HIV-1 activates Cdc42 and induces membrane extensions in immature dendritic cells to facilitate cell-to-cell virus propagation. *Blood*, 118(18), 4841.

Deevi R, et al. (2011) PTEN regulates colorectal epithelial apoptosis through Cdc42 signalling. British journal of cancer, 105(9), 1313.