

Resource Summary Report

Generated by [nidm-terms](#) on Aug 10, 2026

pcDNA3-EGFP-RhoA-T19N

RRID:Addgene_12967

Type: Plasmid

Proper Citation

RRID:Addgene_12967

Plasmid Information

URL: <http://www.addgene.org/12967>

Proper Citation: RRID:Addgene_12967

Insert Name: RhoA DN

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:10734125](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:6100; Vector Backbone:pcDNA3-EGFP; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pcDNA3-EGFP-RhoA-T19N

Relevant Mutation: T19N Dominant negative

Record Creation Time: 20220422T221721+0000

Record Last Update: 20260808T080733+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3-EGFP-RhoA-T19N.

No alerts have been found for pcDNA3-EGFP-RhoA-T19N.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 39 mentions in open access literature.

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

Powell O, et al. (2025) Elongation of the nascent avian foregut requires coordination of intrinsic and extrinsic cell behaviors. *Developmental biology*, 527, 277.

Harrison A, et al. (2024) Expanding science skills: teaching tissue culture, data analysis, and reporting through imaging the actin cytoskeleton. *Journal of microbiology & biology education*, 25(2), e0019023.

Boulton DP, et al. (2024) MIRO2 promotes cancer invasion and metastasis via MYO9B suppression of RhoA activity. *Cell reports*, 44(1), 115120.

Müller L, et al. (2024) Plakophilin 4 controls the spatio-temporal activity of RhoA at adherens junctions to promote cortical actin ring formation and tissue tension. *Cellular and molecular life sciences : CMLS*, 81(1), 291.

Liu X, et al. (2024) RABV induces biphasic actin cytoskeletal rearrangement through Rac1 activity modulation. *Journal of virology*, 98(7), e0060624.

Kumar R, et al. (2022) A cell-based GEF assay reveals new substrates for DENN domains and a role for DENND2B in primary ciliogenesis. *Science advances*, 8(8), eabk3088.

Finney AC, et al. (2021) EphA2 signaling within integrin adhesions regulates fibrillar adhesion elongation and fibronectin deposition. *Matrix biology : journal of the International Society for Matrix Biology*, 103-104, 1.

Wu D, et al. (2021) Single-cell metabolic imaging reveals a SLC2A3-dependent glycolytic burst in motile endothelial cells. *Nature metabolism*, 3(5), 714.

McCray BA, et al. (2021) Neuropathy-causing TRPV4 mutations disrupt TRPV4-RhoA interactions and impair neurite extension. *Nature communications*, 12(1), 1444.

Sala S, et al. (2021) Stress fiber strain recognition by the LIM protein testin is cryptic and mediated by RhoA. *Molecular biology of the cell*, 32(18), 1758.

Priya R, et al. (2020) Tension heterogeneity directs form and fate to pattern the myocardial wall. *Nature*, 588(7836), 130.

Fox ME, et al. (2020) Dendritic remodeling of D1 neurons by RhoA/Rho-kinase mediates depression-like behavior. *Molecular psychiatry*, 25(5), 1022.

Hung PS, et al. (2020) The Inhibition of Wnt Restrains KRASG12V-Driven Metastasis in Non-Small-Cell Lung Cancer. *Cancers*, 12(4).

Fray MA, et al. (2020) Vav2 lacks Ca²⁺ entry-promoting scaffolding functions unique to Vav1 and inhibits T cell activation via Cdc42. *Journal of cell science*, 133(5).

Shen W, et al. (2020) Tomosyn regulates the small RhoA GTPase to control the dendritic stability of neurons and the surface expression of AMPA receptors. *Journal of neuroscience research*, 98(6), 1213.

Bertolio R, et al. (2019) Sterol regulatory element binding protein 1 couples mechanical cues and lipid metabolism. *Nature communications*, 10(1), 1326.

Schaffer TB, et al. (2018) PKC ϵ Inhibits Neuronal Dendritic Spine Development through Dual Phosphorylation of Ephexin5. *Cell reports*, 25(9), 2470.

Rafiq NB, et al. (2017) Podosome assembly is controlled by the GTPase ARF1 and its nucleotide exchange factor ARNO. *The Journal of cell biology*, 216(1), 181.

Yu B, et al. (2017) A Cytokine-Like Protein Dickkopf-Related Protein 3 Is Atheroprotective. *Circulation*, 136(11), 1022.

Shah MK, et al. (2017) Influence of Inherent Mechanophenotype on Competitive Cellular Adherence. *Annals of biomedical engineering*, 45(8), 2036.