

Resource Summary Report

Generated by [dkNET](#) on Sep 1, 2026

pTriEx4-Cdc42-2G

RRID:Addgene_68814

Type: Plasmid

Proper Citation

RRID:Addgene_68814

Plasmid Information

URL: <http://www.addgene.org/68814>

Proper Citation: RRID:Addgene_68814

Insert Name: Cdc42 activation reporter

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:26912264](#)

Vector Backbone Description: Backbone Marker:Novagen; Backbone Size:5238; Vector Backbone:pTriEx4; Vector Types:Mammalian Expression, Bacterial Expression, Insect Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pTriEx4-Cdc42-2G

Record Creation Time: 20220422T222428+0000

Record Last Update: 20260829T080920+0000

Ratings and Alerts

No rating or validation information has been found for pTriEx4-Cdc42-2G.

No alerts have been found for pTriEx4-Cdc42-2G.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Lu E, et al. (2026) A TRPV4-dependent calcium signaling axis regulates lamellipodial actin architecture to promote cell migration. *Current biology* : CB, 36(4), 995.

Lee H, et al. (2025) A Rho GTPase-effector ensemble governs cell migration behavior. *Nature communications*, 16(1), 9637.

Hiepen C, et al. (2025) Endothelial tip-cell position, filopodia formation and biomechanics require BMPR2 expression and signaling. *Communications biology*, 8(1), 21.

Müller PM, et al. (2022) A screening-compatible live cell fluorescence resonance energy transfer-based assay for modulation of Rho GTPase activity. *STAR protocols*, 3(4), 101705.

Anijs M, et al. (2022) ARHGEF39, a Gene Implicated in Developmental Language Disorder, Activates RHOA and Is Involved in Cell De-Adhesion and Neural Progenitor Cell Proliferation. *Frontiers in molecular neuroscience*, 15, 941494.

Yang JM, et al. (2021) Deciphering cell signaling networks with massively multiplexed biosensor barcoding. *Cell*, 184(25), 6193.

MacKeil JL, et al. (2019) A PKA/cdc42 Signaling Axis Restricts Angiogenic Sprouting by Regulating Podosome Rosette Biogenesis and Matrix Remodeling. *Scientific reports*, 9(1), 2385.

Sun T, et al. (2017) A reverse signaling pathway downstream of Sema4A controls cell migration via Scrib. *The Journal of cell biology*, 216(1), 199.