Resource Summary Report

Generated by RRID on Aug 22, 2026

GFP-rGBD

RRID:Addgene_26732
Type: Plasmid

Proper Citation

RRID:Addgene_26732

Plasmid Information

URL: http://www.addgene.org/26732

Proper Citation: RRID:Addgene_26732

Insert Name: rhotekin

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: PMID:15684032

Vector Backbone Description: Backbone Size:4097; Vector Backbone:pCS2+; Vector Types:Mammalian Expression, reporter for Rho; Bacterial Resistance:Ampicillin

Comments: The RhoA-binding domain of rhotekin (rGBD) was fused to eGFP in order to visualize active RhoA

Plasmid Name: GFP-rGBD

Relevant Mutation: RhoA binding domain of rhotekin

Record Creation Time: 20220422T222120+0000

Record Last Update: 20260815T081256+0000

Ratings and Alerts

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

No alerts have been found for GFP-rGBD.

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 .

Jin L, et al. (2025) An acentrosomal aster with atypical microtubule polarity recruits cytokinesis signals to its center in Xenopus egg extracts. Journal of cell science, 138(18).

Sharma R, et al. (2024) The CPLANE protein Fuzzy regulates ciliogenesis by suppressing actin polymerization at the base of the primary cilium via p190A RhoGAP. Development (Cambridge, England), 151(6).

Michaud A, et al. (2022) A versatile cortical pattern-forming circuit based on Rho, F-actin, Ect2, and RGA-3/4. The Journal of cell biology, 221(8).

Mahlandt EK, et al. (2021) Visualizing endogenous Rho activity with an improved localization-based, genetically encoded biosensor. Journal of cell science, 134(17).

Pal D, et al. (2020) Rac and Arp2/3-Nucleated Actin Networks Antagonize Rho During Mitotic and Meiotic Cleavages. Frontiers in cell and developmental biology, 8, 591141.

Streets AJ, et al. (2020) Polycystin-1 regulates ARHGAP35-dependent centrosomal RhoA activation and ROCK signaling. JCI insight, 5(16).

Poirier MB, et al. (2020) F-actin flashes on phagosomes mechanically deform contents for efficient digestion in macrophages. Journal of cell science, 133(12).

DeKraker C, et al. (2019) Dynamics of actin polymerisation during the mammalian single-cell wound healing response. BMC research notes, 12(1), 420.

Hori A, et al. (2019) Prominin-1 Modulates Rho/ROCK-Mediated Membrane Morphology and Calcium-Dependent Intracellular Chloride Flux. Scientific reports, 9(1), 15911.

O'Neill PR, et al. (2018) Membrane Flow Drives an Adhesion-Independent Amoeboid Cell Migration Mode. Developmental cell, 46(1), 9.

Li C, et al. (2016) Unravelling the Mechanism of TrkA-Induced Cell Death by Macropinocytosis in Medulloblastoma Daoy Cells. Molecular and cellular biology, 36(20), 2596.

Miklavc P, et al. (2015) Actin depolymerisation and crosslinking join forces with myosin II to contract actin coats on fused secretory vesicles. Journal of cell science, 128(6), 1193.

Kourtidis A, et al. (2015) Distinct E-cadherin-based complexes regulate cell behaviour through miRNA processing or Src and p120??catenin activity. Nature cell biology, 17(9), 1145.