

Resource Summary Report

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

pEGFP-RhoA Biosensor

RRID:Addgene_68026

Type: Plasmid

Proper Citation

RRID:Addgene_68026

Plasmid Information

URL: <http://www.addgene.org/68026>

Proper Citation: RRID:Addgene_68026

Insert Name: Anillin (AHD+PH)

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:18158243](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4700; Vector Backbone:pEGFP-C1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: pEGFP-RhoA Biosensor

Record Creation Time: 20220422T222424+0000

Record Last Update: 20260829T080913+0000

Ratings and Alerts

No rating or validation information has been found for pEGFP-RhoA Biosensor.

No alerts have been found for pEGFP-RhoA Biosensor.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Chandrasekar S, et al. (2025) Local RhoA activation induces septin recruitment. bioRxiv : the preprint server for biology.

Arslan FN, et al. (2024) Adhesion-induced cortical flows pattern E-cadherin-mediated cell contacts. Current biology : CB, 34(1), 171.

Liu D, et al. (2024) Dynamic encounters with red blood cells trigger splenic marginal zone B cell retention and function. Nature immunology, 25(1), 142.

Lombardo AT, et al. (2024) ARHGAP18-ezrin functions as an autoregulatory module for RhoA in the assembly of distinct actin-based structures. eLife, 13.

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.

Quintanilla MA, et al. (2024) Local monomer levels and established filaments potentiate non-muscle myosin 2 assembly. The Journal of cell biology, 223(4).

Saha S, et al. (2023) Mechanosensitive mTORC2 independently coordinates leading and trailing edge polarity programs during neutrophil migration. Molecular biology of the cell, 34(5), ar35.

Quintanilla MA, et al. (2023) Local Monomer Levels and Established Filaments Potentiate Non-Muscle Myosin 2 Assembly. bioRxiv : the preprint server for biology.

Ozkan NE, et al. (2023) Cell cycle-dependent palmitoylation of protocadherin 7 by ZDHHC5 promotes successful cytokinesis. Journal of cell science, 136(6).

Wang C, et al. (2023) Mechanosensitive accumulation of non-muscle myosin IIB during mitosis requires its translocation activity. iScience, 26(10), 107773.

Bourdais A, et al. (2023) MRCK activates mouse oocyte myosin II for spindle rotation and male pronucleus centration. The Journal of cell biology, 222(11).

Marivin A, et al. (2022) DAPLE orchestrates apical actomyosin assembly from junctional polarity complexes. The Journal of cell biology, 221(5).

Wang M, et al. (2022) PD-L1 promotes rear retraction during persistent cell migration by altering integrin $\beta 4$ dynamics. The Journal of cell biology, 221(5).

Dehapiot B, et al. (2021) RhoA- and Cdc42-induced antagonistic forces underlie symmetry breaking and spindle rotation in mouse oocytes. PLoS biology, 19(9), e3001376.

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

Limzerwala JF, et al. (2020) FoxM1 insufficiency hyperactivates Ect2-RhoA-mDia1 signaling to drive cancer. *Nature cancer*, 1(10), 1010.

Jiao M, et al. (2018) Myosin II-interacting guanine nucleotide exchange factor promotes bleb retraction via stimulating cortex reassembly at the bleb membrane. *Molecular biology of the cell*, 29(5), 643.

Matsuzawa K, et al. (2018) γ -Catenin Controls the Anisotropy of Force Distribution at Cell-Cell Junctions during Collective Cell Migration. *Cell reports*, 23(12), 3447.