Resource Summary Report

Generated by RRID on Aug 22, 2026

mCherry-Rab5DN(S34N)

RRID:Addgene_35139
Type: Plasmid

Proper Citation

RRID:Addgene_35139

Plasmid Information

URL: http://www.addgene.org/35139

Proper Citation: RRID:Addgene_35139

Insert Name: Rab5a

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: PMID:22072788

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4722; Vector Backbone:pmCherry-C1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: mCherry-Rab5DN(S34N)

Relevant Mutation: Dominant Negative- S34N

Record Creation Time: 20220422T222149+0000

Record Last Update: 20260815T081358+0000

Ratings and Alerts

No rating or validation information has been found for mCherry-Rab5DN(S34N).

No alerts have been found for mCherry-Rab5DN(S34N).

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 .

Kim DH, et al. (2025) RABEP1 amplifies front signaling in neutrophil migration. bioRxiv : the preprint server for biology.

Markou A, et al. (2024) Mechanisms of aquaporin-4 vesicular trafficking in mammalian cells. Journal of neurochemistry, 168(2), 100.

Bekku Y, et al. (2024) Glia trigger endocytic clearance of axonal proteins to promote rodent myelination. Developmental cell.

Courte J, et al. (2024) Programming the elongation of mammalian cell aggregates with synthetic gene circuits. bioRxiv : the preprint server for biology.

Rahman F, et al. (2022) DYNC1LI2 regulates localization of the chaperone-mediated autophagy receptor LAMP2A and improves cellular homeostasis in cystinosis. Autophagy, 18(5), 1108.

Lahree A, et al. (2022) Active APPL1 sequestration by Plasmodium favors liver-stage development. Cell reports, 39(9), 110886.

Trofimenko E, et al. (2021) The endocytic pathway taken by cationic substances requires Rab14 but not Rab5 and Rab7. Cell reports, 37(5), 109945.

Jeckel P, et al. (2021) Autism Spectrum Disorder Risk Factor Met Regulates the Organization of Inhibitory Synapses. Frontiers in molecular neuroscience, 14, 659856.

Sønder SL, et al. (2021) Restructuring of the plasma membrane upon damage by LC3-associated macropinocytosis. Science advances, 7(27).

Caudano F, et al. (2020) cGMP favors the interaction between APP and BACE1 by inhibiting Rab5 GTPase activity. Scientific reports, 10(1), 1358.

Xie CB, et al. (2020) Complement-activated interferon-?-primed human endothelium transpresents interleukin-15 to CD8+ T cells. The Journal of clinical investigation, 130(7), 3437.

Fang C, et al. (2019) ZFYVE21 is a complement-induced Rab5 effector that activates non-canonical NF-?B via phosphoinosotide remodeling of endosomes. Nature communications, 10(1), 2247.

Parks XX, et al. (2019) Fluvastatin inhibits Rab5-mediated IKs internalization caused by chronic Ca2+-dependent PKC activation. Journal of molecular and cellular cardiology, 129, 314.

Ruhe F, et al. (2017) Overexpression of the Endosomal Anion/Proton Exchanger ClC-5 Increases Cell Susceptibility toward Clostridium difficile Toxins TcdA and TcdB. Frontiers in cellular and infection microbiology, 7, 67.

Yap CC, et al. (2017) The endosomal neuronal proteins Nsg1/NEEP21 and Nsg2/P19 are itinerant, not resident proteins of dendritic endosomes. Scientific reports, 7(1), 10481.

Ng WC, et al. (2016) The C-type Lectin Langerin Functions as a Receptor for Attachment and Infectious Entry of Influenza A Virus. Journal of virology, 90(1), 206.

Cruse G, et al. (2015) The CD20 homologue MS4A4 directs trafficking of KIT toward clathrin-independent endocytosis pathways and thus regulates receptor signaling and recycling. Molecular biology of the cell, 26(9), 1711.

Li Y, et al. (2014) Rab5 and Ndfip1 are involved in Pten ubiquitination and nuclear trafficking. Traffic (Copenhagen, Denmark), 15(7), 749.