

Resource Summary Report

Generated by [RRID](#) on Aug 22, 2026

mCherry-Rab5CA(Q79L)

RRID:Addgene_35138

Type: Plasmid

Proper Citation

RRID:Addgene_35138

Plasmid Information

URL: <http://www.addgene.org/35138>

Proper Citation: RRID:Addgene_35138

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-Rab5CA(Q79L)

Relevant Mutation: Constitutively Active- Q79L

Record Creation Time: 20220422T222149+0000

Record Last Update: 20260815T081404+0000

Ratings and Alerts

No rating or validation information has been found for mCherry-Rab5CA(Q79L).

No alerts have been found for mCherry-Rab5CA(Q79L).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 19 mentions in open access literature.

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

Shao W, et al. (2025) Endolysosomal dysfunction impairs proteostasis and induces neurodegeneration in vivo. *iScience*, 28(10), 113460.

Hao M, et al. (2024) In vivo CRISPR knockout screen identifies p47 as a suppressor of HER2+ breast cancer metastasis by regulating NEMO trafficking and autophagy flux. *Cell reports*, 43(2), 113780.

Bittel DC, et al. (2023) Early Endosomes Undergo Calcium-Triggered Exocytosis and Enable Repair of Diffuse and Focal Plasma Membrane Injury. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 10(33), e2300245.

Ma L, et al. (2023) Two RNA-binding proteins mediate the sorting of miR223 from mitochondria into exosomes. *eLife*, 12.

Schmieder SS, et al. (2022) Structural basis for acyl chain control over glycosphingolipid sorting and vesicular trafficking. *Cell reports*, 40(2), 111063.

Mashimo M, et al. (2022) Poly(ADP-ribose) Polymerase 1 Mediates Rab5 Inactivation after DNA Damage. *International journal of molecular sciences*, 23(14).

Barman B, et al. (2022) VAP-A and its binding partner CERT drive biogenesis of RNA-containing extracellular vesicles at ER membrane contact sites. *Developmental cell*, 57(8), 974.

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

Hao M, et al. (2021) Autophagy Blockade Limits HER2+ Breast Cancer Tumorigenesis by Perturbing HER2 Trafficking and Promoting Release Via Small Extracellular Vesicles. *Developmental cell*, 56(3), 341.

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

Liu XM, et al. (2021) Selective sorting of microRNAs into exosomes by phase-separated YBX1 condensates. *eLife*, 10.

Valenzuela JI, et al. (2020) Localized Intercellular Transfer of Ephrin-As by Trans-endocytosis Enables Long-Term Signaling. *Developmental cell*, 52(1), 104.

Leidal AM, et al. (2020) The LC3-conjugation machinery specifies the loading of RNA-binding proteins into extracellular vesicles. *Nature cell biology*, 22(2), 187.

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

Hellerschmied D, et al. (2019) Protein folding state-dependent sorting at the Golgi apparatus. *Molecular biology of the cell*, 30(17), 2296.

Chang R, et al. (2018) The dual role of chloride in synaptic vesicle glutamate transport. *eLife*, 7.

Giovannone AJ, et al. (2017) Monoubiquitination of syntaxin 3 leads to retrieval from the basolateral plasma membrane and facilitates cargo recruitment to exosomes. *Molecular biology of the cell*, 28(21), 2843.

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

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.