

Resource Summary Report

Generated by [RRID](#) on Aug 31, 2026

[mRFP-Rab5](#)

RRID:Addgene_14437

Type: Plasmid

Proper Citation

RRID:Addgene_14437

Plasmid Information

URL: <http://www.addgene.org/14437>

Proper Citation: RRID:Addgene_14437

Insert Name: Rab 5

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:15954801](#)

Vector Backbone Description: Backbone Size:4656; Vector Backbone:pmRFP-C3;
Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: mRFP-Rab5

Record Creation Time: 20220422T221817+0000

Record Last Update: 20260829T075646+0000

Ratings and Alerts

No rating or validation information has been found for mRFP-Rab5.

No alerts have been found for mRFP-Rab5.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 81 mentions in open access literature.

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

Boyer NP, et al. (2026) Spectrin condensates provide a nidus for assembling the axonal membrane-associated periodic skeleton. *iScience*, 29(1), 114454.

Zheng YH, et al. (2026) A pH-driven receptor switch from ACE2 to NPC1 enables endosomal entry of SARS-CoV-2. *Research square*.

Vishwakarma A, et al. (2026) Mitochondrial dysfunction alters early endosome trafficking via microtubule reorganization. *Life science alliance*, 9(1).

Chen Y, et al. (2025) RAB5 is a host dependency factor for the generation of SARS-CoV-2 replication organelles. *mBio*, 16(5), e0331424.

Eswaran S, et al. (2025) Biological functions of extracellular vesicle double C2-like domain beta in cervical cancer. *Scientific reports*, 15(1), 477.

Saimoto Y, et al. (2025) Lysosomal lipid peroxidation contributes to ferroptosis induction via lysosomal membrane permeabilization. *Nature communications*, 16(1), 3554.

Li T, et al. (2025) Cholesterol modulates trafficking of galanin receptor subtype 1 but not subtype 2: Insights from live-cell imaging. *British journal of pharmacology*.

Saffi GT, et al. (2025) The lipid phosphatase INPP4B controls pancreatic cancer cell migration and invasion by regulating fibronectin exocytosis. *The Journal of biological chemistry*, 301(10), 110716.

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

Manchanda Y, et al. (2024) Engineered mini-G proteins block the internalization of cognate GPCRs and disrupt downstream intracellular signaling. *Science signaling*, 17(843), eabq7038.

Chang Y, et al. (2024) Palmitoylation regulates myelination by modulating the ZDHHC3-Cadm4 axis in the central nervous system. *Signal transduction and targeted therapy*, 9(1), 254.

Bhat M, et al. (2024) A genetically-encoded fluorescence-based reporter to spatiotemporally investigate mannose-6-phosphate pathway. *Molecular biology of the cell*, 35(8), mr6.

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.

Kumar N, et al. (2023) Identification of diphenylurea derivatives as novel endocytosis inhibitors that demonstrate broad-spectrum activity against SARS-CoV-2 and influenza A virus both in vitro and in vivo. *PLoS pathogens*, 19(5), e1011358.

York HM, et al. (2023) Deterministic early endosomal maturations emerge from a stochastic trigger-and-convert mechanism. *Nature communications*, 14(1), 4652.

Bai Y, et al. (2023) PTP4A2 promotes lysophagy by dephosphorylation of VCP/p97 at Tyr805. *Autophagy*, 19(5), 1562.

Yuan C, et al. (2022) Comprehensive Subcellular Localization of Swine Acute Diarrhea Syndrome Coronavirus Proteins. *Journal of virology*, 96(17), e0077222.

Taniguchi S, et al. (2022) The Ubiquitin Ligase RNF34 Participates in the Peripheral Quality Control of CFTR (RNF34 Role in CFTR PeriQC). *Frontiers in molecular biosciences*, 9, 840649.

Nørgård MØ, et al. (2022) A new transgene mouse model using an extravesicular EGFP tag enables affinity isolation of cell-specific extracellular vesicles. *Scientific reports*, 12(1), 496.

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.