

Resource Summary Report

Generated by [NIF](#) on Sep 9, 2026

mCherry-Rab7a-7

RRID:Addgene_55127

Type: Plasmid

Proper Citation

RRID:Addgene_55127

Plasmid Information

URL: <http://www.addgene.org/55127>

Proper Citation: RRID:Addgene_55127

Insert Name: Rab7a

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Vector Backbone Description: Backbone Size:4750; Vector Backbone:mCherry; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: . Excitation = 587; Emission = 610

Plasmid Name: mCherry-Rab7a-7

Relevant Mutation: N117S in NM_004637.5

Record Creation Time: 20220422T222323+0000

Record Last Update: 20260905T075815+0000

Ratings and Alerts

No rating or validation information has been found for mCherry-Rab7a-7.

No alerts have been found for mCherry-Rab7a-7.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 21 mentions in open access literature.

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

Kim TW, et al. (2026) Altered Intracellular Trafficking as a Mechanism for Prolonged Duration of G Protein-Coupled Receptor Activation. *Journal of the American Chemical Society*, 148(21), 22045.

Wright EB, et al. (2025) TMEM184B modulates endolysosomal acidification via the vesicular proton pump. *Journal of cell science*, 138(15).

Samuels M, et al. (2025) LMTK3 regulation of EV biogenesis and cargo sorting promotes tumour growth by reducing monocyte infiltration and driving pro-tumourigenic macrophage polarisation in breast cancer. *Molecular cancer*, 24(1), 149.

Peng W, et al. (2025) Endosomal trafficking participates in lipid droplet catabolism to maintain lipid homeostasis. *Nature communications*, 16(1), 1917.

Denha SA, et al. (2025) Molecular consequences of SCA5 mutations in the spectrin-repeat domains of β -III-spectrin. *The Journal of biological chemistry*, 301(7), 110350.

Jang W, et al. (2024) Visualization of endogenous G proteins on endosomes and other organelles. *bioRxiv : the preprint server for biology*.

Rudd JC, et al. (2023) Membrane structure and internalization dynamics of human Flower isoforms hFWE3 and hFWE4 indicate a conserved endocytic role for hFWE4. *The Journal of biological chemistry*, 299(8), 104945.

Minckley TF, et al. (2023) Zn²⁺ decoration of microtubules arrests axonal transport and displaces tau, doublecortin, and MAP2C. *The Journal of cell biology*, 222(8).

Heo K, et al. (2022) Serine/Threonine Protein Phosphatase 2A Regulates the Transport of Axonal Mitochondria. *Frontiers in cellular neuroscience*, 16, 852245.

Harbauer AB, et al. (2022) Neuronal mitochondria transport Pink1 mRNA via synaptojanin 2 to support local mitophagy. *Neuron*, 110(9), 1516.

Ecker M, et al. (2021) Quantitative visualization of endocytic trafficking through photoactivation of fluorescent proteins. *Molecular biology of the cell*, 32(9), 892.

Hülsemann M, et al. (2021) TC10 regulates breast cancer invasion and metastasis by controlling membrane type-1 matrix metalloproteinase at invadopodia. *Communications biology*, 4(1), 1091.

Pan M, et al. (2021) Interactome analysis reveals endocytosis and membrane recycling of EpCAM during differentiation of embryonic stem cells and carcinoma cells. *iScience*, 24(10), 103179.

Du Rietz H, et al. (2020) Imaging small molecule-induced endosomal escape of siRNA. *Nature communications*, 11(1), 1809.

Kühn S, et al. (2020) Actin Assembly around the Shigella-Containing Vacuole Promotes Successful Infection. *Cell reports*, 31(6), 107638.

Redpath GMI, et al. (2019) Flotillins promote T cell receptor sorting through a fast Rab5-Rab11 endocytic recycling axis. *Nature communications*, 10(1), 4392.

Minckley TF, et al. (2019) Sub-nanomolar sensitive GZnP3 reveals TRPML1-mediated neuronal Zn²⁺ signals. *Nature communications*, 10(1), 4806.

Szczurkowska J, et al. (2018) NEGR1 and FGFR2 cooperatively regulate cortical development and core behaviours related to autism disorders in mice. *Brain : a journal of neurology*, 141(9), 2772.

Dettmer U, et al. (2017) Loss of native α -synuclein multimerization by strategically mutating its amphipathic helix causes abnormal vesicle interactions in neuronal cells. *Human molecular genetics*, 26(18), 3466.

Okuda K, et al. (2016) *Leishmania amazonensis* Engages CD36 to Drive Parasitophorous Vacuole Maturation. *PLoS pathogens*, 12(6), e1005669.