

Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

mCherry-TOMM20-N-10

RRID:Addgene_55146

Type: Plasmid

Proper Citation

RRID:Addgene_55146

Plasmid Information

URL: <http://www.addgene.org/55146>

Proper Citation: RRID:Addgene_55146

Insert Name: TOMM20

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Vector Backbone Description: Backbone Size:4750; Vector Backbone:mCherry-N1;
Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: Excitation = 587; Emission = 610

Plasmid Name: mCherry-TOMM20-N-10

Record Creation Time: 20220422T222323+0000

Record Last Update: 20260815T081647+0000

Ratings and Alerts

No rating or validation information has been found for mCherry-TOMM20-N-10.

No alerts have been found for mCherry-TOMM20-N-10.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 28 mentions in open access literature.

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

Parutto P, et al. (2026) FidlTrack: high-fidelity structure-aware single particle tracking resolves intracellular molecular motion in organelles sensing APP processing. *Nature communications*, 17(1).

David EA, et al. (2026) SARS-CoV-2 envelope protein mitochondrial localization reveals host metabolic disruption. *The Journal of biological chemistry*, 302(5), 111419.

Paquola A, et al. (2026) Lipid-trap mass spectrometry identifies lipid-protein interactions in cells. *Nature cell biology*, 28(5), 1066.

Rose K, et al. (2025) In situ cryo-ET visualization of mitochondrial depolarization and mitophagic engulfment. *bioRxiv : the preprint server for biology*.

Tan X, et al. (2025) Dichotomous roles of ACBD3 in NSCLC growth and metastasis. *Oncogene*, 44(25), 2078.

Rose K, et al. (2025) In situ cryo-ET visualization of mitochondrial depolarization and mitophagic engulfment. *Proceedings of the National Academy of Sciences of the United States of America*, 122(31), e2511890122.

Lu SL, et al. (2025) Evidence that mitochondria in macrophages are destroyed by microautophagy. *Nature communications*, 16(1), 8123.

Ocasio CA, et al. (2024) A palmitoyl transferase chemical-genetic system to map ZDHHC-specific S-acylation. *Nature biotechnology*, 42(10), 1548.

Santinho A, et al. (2024) Giant organelle vesicles to uncover intracellular membrane mechanics and plasticity. *Nature communications*, 15(1), 3767.

T??bara LC, et al. (2024) MTFP1 controls mitochondrial fusion to regulate inner membrane quality control and maintain mtDNA levels. *Cell*, 187(14), 3619.

Jin DY, et al. (2023) A genome-wide CRISPR-Cas9 knockout screen identifies FSP1 as the warfarin-resistant vitamin K reductase. *Nature communications*, 14(1), 828.

Uno S, et al. (2023) Incorporating a Polyethyleneglycol Linker to Enhance the Hydrophilicity of Mitochondria-Targeted Triphenylphosphonium Constructs. *Chembiochem : a European journal of chemical biology*, 24(11), e202200774.

Mahlandt EK, et al. (2023) Cell-based optimization and characterization of genetically encoded location-based biosensors for Cdc42 or Rac activity. *Journal of cell science*, 136(10).

Kidwell CU, et al. (2023) Transferred mitochondria accumulate reactive oxygen species, promoting proliferation. *eLife*, 12.

Belton TB, et al. (2022) Live cell microscopy of mitochondria-lysosome contact site formation and tethering dynamics. *STAR protocols*, 3(2), 101262.

Moya MV, et al. (2022) Unique molecular features and cellular responses differentiate two populations of motor cortical layer 5b neurons in a preclinical model of ALS. *Cell reports*, 38(12), 110556.

Hatori Y, et al. (2022) ATP13A2 modifies mitochondrial localization of overexpressed TOM20 to autolysosomal pathway. *PloS one*, 17(11), e0276823.

Zhu H, et al. (2022) A Systemic Study of Subcellular Localization of Porcine Epidemic Diarrhea Virus Proteins. *Pathogens (Basel, Switzerland)*, 11(12).

Simpson CL, et al. (2021) NIX initiates mitochondrial fragmentation via DRP1 to drive epidermal differentiation. *Cell reports*, 34(5), 108689.

Benedetti L, et al. (2021) Optogenetic Tools for Manipulating Protein Subcellular Localization and Intracellular Signaling at Organelle Contact Sites. *Current protocols*, 1(3), e71.