

Resource Summary Report

Generated by [kravitz2](#) on Aug 25, 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 [kravitz2](#) .

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.

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).

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.

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.

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

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.

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.