

Resource Summary Report

Generated by [NIF](#) on Aug 23, 2026

mEmerald-TOMM20-N-10

RRID:Addgene_54282

Type: Plasmid

Proper Citation

RRID:Addgene_54282

Plasmid Information

URL: <http://www.addgene.org/54282>

Proper Citation: RRID:Addgene_54282

Insert Name: TOMM20

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

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

Comments: . Excitation = 487; Emission = 509. Localization data: Mitochondrial Membrane

Plasmid Name: mEmerald-TOMM20-N-10

Record Creation Time: 20220422T222318+0000

Record Last Update: 20260815T081639+0000

Ratings and Alerts

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

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

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Cotto BA, et al. (2026) Divergent mitochondrial and metabolic adaptations shape selective vulnerability in ALS. *bioRxiv* : the preprint server for biology.

Zheng S, et al. (2024) Long-term super-resolution inner mitochondrial membrane imaging with a lipid probe. *Nature chemical biology*, 20(1), 83.

Yao Y, et al. (2024) Optogenetic Strategies for Optimizing the Performance of Phospholipids Biosensors. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 11(36), e2403026.

Na J, et al. (2024) Extracellular matrix stiffness as an energy metabolism regulator drives osteogenic differentiation in mesenchymal stem cells. *Bioactive materials*, 35, 549.

Fait BW, et al. (2024) Spontaneously regenerative corticospinal neurons in mice. *bioRxiv* : the preprint server for biology.

Ramezani M, et al. (2023) Alpha Synuclein Modulates Mitochondrial Ca²⁺ Uptake from ER During Cell Stimulation and Under Stress Conditions. *bioRxiv* : the preprint server for biology.

Allred CA, et al. (2023) Tumor-specific intracellular delivery: peptide-guided transport of a catalytic toxin. *Communications biology*, 6(1), 60.

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

Ramezani M, et al. (2023) Alpha synuclein modulates mitochondrial Ca²⁺ uptake from ER during cell stimulation and under stress conditions. *NPJ Parkinson's disease*, 9(1), 137.

Wong YC, et al. (2022) Mid51/Fis1 mitochondrial oligomerization complex drives lysosomal untethering and network dynamics. *The Journal of cell biology*, 221(10).

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

Tamura T, et al. (2020) Organelle membrane-specific chemical labeling and dynamic imaging in living cells. *Nature chemical biology*, 16(12), 1361.

Guo Y, et al. (2018) Visualizing Intracellular Organelle and Cytoskeletal Interactions at Nanoscale Resolution on Millisecond Timescales. *Cell*, 175(5), 1430.

Yang N, et al. (2015) Characterization of the apoptotic response induced by the cyanine dye D112: a potentially selective anti-cancer compound. *PloS one*, 10(4), e0125381.

Hayashi S, et al. (2015) Ultrafast superresolution fluorescence imaging with spinning disk confocal microscope optics. *Molecular biology of the cell*, 26(9), 1743.