

Resource Summary Report

Generated by [RRID](#) on Aug 17, 2026

[mito-BFP](#)

RRID:Addgene_49151

Type: Plasmid

Proper Citation

RRID:Addgene_49151

Plasmid Information

URL: <http://www.addgene.org/49151>

Proper Citation: RRID:Addgene_49151

Insert Name: mitochondrial targeting signal

Organism: Saccharomyces cerevisiae

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:21885730](#)

Vector Backbone Description: Backbone Marker:Clontech; Vector Backbone:pAcGFP1-N1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: mito-BFP

Record Creation Time: 20220422T222253+0000

Record Last Update: 20260815T081556+0000

Ratings and Alerts

No rating or validation information has been found for mito-BFP.

No alerts have been found for mito-BFP.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 59 mentions in open access literature.

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

Samangouei P, et al. (2026) Mitochondrial Dynamic Proteins MiD49 and MiD51 as Novel Targets of Cardioprotection. *Cells*, 15(6).

Michita RT, et al. (2025) Zika virus NS1 drives tunneling nanotube formation for mitochondrial transfer and stealth transmission in trophoblasts. *Nature communications*, 16(1), 1803.

Baumann N, et al. (2025) Regional differences in progenitor metabolism shape brain growth during development. *Cell*, 188(13), 3567.

Hanna MG, et al. (2025) BLTP3A is associated with membranes of the late endocytic pathway and is an effector of CASM. *The EMBO journal*, 44(21), 6168.

Bapat O, et al. (2024) VAP spatially stabilizes dendritic mitochondria to locally support synaptic plasticity. *Nature communications*, 15(1), 205.

Sharma N, et al. (2024) FLEX: genetically encodable enzymatic fluorescence signal amplification using engineered peroxidase. *Cell chemical biology*.

Zheng C, et al. (2024) Arrestin-3 binds parkin and enhances parkin-dependent mitophagy. *Journal of neurochemistry*.

Kichuk T, et al. (2024) Using MitER for 3D analysis of mitochondrial morphology and ER contacts. *Cell reports methods*, 4(1), 100692.

Prashar A, et al. (2024) Lysosomes drive the piecemeal removal of mitochondrial inner membrane. *Nature*, 632(8027), 1110.

Hees JT, et al. (2024) Insulin signalling regulates Pink1 mRNA localization via modulation of AMPK activity to support PINK1 function in neurons. *Nature metabolism*, 6(3), 514.

Pilic J, et al. (2024) Hexokinase 1 forms rings that regulate mitochondrial fission during energy stress. *Molecular cell*, 84(14), 2732.

Hofstadter WA, et al. (2024) Infection-induced peripheral mitochondria fission drives ER encapsulations and inter-mitochondria contacts that rescue bioenergetics. *Nature communications*, 15(1), 7352.

Sun H, et al. (2023) LPGAT1 controls MEGDEL syndrome by coupling phosphatidylglycerol remodeling with mitochondrial transport. *Cell reports*, 42(11), 113214.

Harned TC, et al. (2023) Acute ACAT1/SOAT1 Blockade Increases MAM Cholesterol and Strengthens ER-Mitochondria Connectivity. *International journal of molecular sciences*, 24(6).

Yiu SPT, et al. (2023) An Epstein-Barr virus protein interaction map reveals NLRP3 inflammasome evasion via MAVS UFMylation. *Molecular cell*, 83(13), 2367.

Sun G, et al. (2023) Biased placement of Mitochondria fission facilitates asymmetric inheritance of protein aggregates during yeast cell division. PLoS computational biology, 19(11), e1011588.

Amos C, et al. (2023) Erythroid Differentiation Dependent Interaction of VPS13A with XK at the Plasma Membrane of K562 Cells. Contact (Thousand Oaks (Ventura County, Calif.)), 6, 25152564231215133.

Tong L, et al. (2023) Single cell in?vivo optogenetic stimulation by two-photon excitation fluorescence transfer. iScience, 26(10), 107857.

Ouyang Q, et al. (2023) Rab8a as a mitochondrial receptor for lipid droplets in skeletal muscle. Developmental cell, 58(4), 289.

Sekine Y, et al. (2023) A mitochondrial iron-responsive pathway regulated by DELE1. Molecular cell, 83(12), 2059.