

Resource Summary Report

Generated by [NIF](#) on Sep 4, 2026

mKeima-Red-Mito-7

RRID:Addgene_56018

Type: Plasmid

Proper Citation

RRID:Addgene_56018

Plasmid Information

URL: <http://www.addgene.org/56018>

Proper Citation: RRID:Addgene_56018

Insert Name: Mito

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Vector Backbone Description: Backbone Size:4750; Vector Backbone:mKeima-Red;
Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: . Excitation = 440; Emission = 620

Plasmid Name: mKeima-Red-Mito-7

Record Creation Time: 20220422T222327+0000

Record Last Update: 20260902T045733+0000

Ratings and Alerts

No rating or validation information has been found for mKeima-Red-Mito-7.

No alerts have been found for mKeima-Red-Mito-7.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 41 mentions in open access literature.

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

Qin Y, et al. (2026) Loss of TMEM55B modulates lipid metabolism through dysregulated lipophagy and mitochondrial function. *Cell death & disease*, 17(1), 26.

Hong SG, et al. (2025) Laminar Shear Stress Increases the Cytosolic Pool of PINK1 in Endothelial Cells and Enhances Mitophagic Sensitivity Toward Dysfunctional Mitochondria. *bioRxiv : the preprint server for biology*.

Kakanj P, et al. (2025) Retromer promotes the lysosomal turnover of mtDNA. *Science advances*, 11(14), eadr6415.

Zhang T, et al. (2025) POLR1A inhibits ferroptosis by regulating TFAM-mediated mitophagy and iron homeostasis. *Redox biology*, 85, 103758.

Dafsari HS, et al. (2025) Mutations in the Key Autophagy Tethering Factor EPG5 Link Neurodevelopmental and Neurodegenerative Disorders Including Early-Onset Parkinsonism. *Annals of neurology*, 98(5), 932.

Timmins LR, et al. (2024) Caveolin-1 promotes mitochondrial health and limits mitochondrial ROS through ROCK/AMPK regulation of basal mitophagic flux. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 38(1), e23343.

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.

Russo T, et al. (2024) The SATB1-MIR22-GBA axis mediates glucocerebroside accumulation inducing a cellular senescence-like phenotype in dopaminergic neurons. *Aging cell*, 23(4), e14077.

Das D, et al. (2024) VPS4A is the selective receptor for lipophagy in mice and humans. *Molecular cell*, 84(22), 4436.

Mohamud Yusuf A, et al. (2024) Acid sphingomyelinase inhibition induces cerebral angiogenesis post-ischemia/reperfusion in an oxidative stress-dependent way and promotes endothelial survival by regulating mitochondrial metabolism. *Cell death & disease*, 15(9), 650.

Schollmeier A, et al. (2024) The impact of HBx protein on mitochondrial dynamics and associated signaling pathways strongly depends on the hepatitis B virus genotype. *Journal of virology*, 98(5), e0042424.

Tao J, et al. (2024) Phosphoglycerate mutase 5 exacerbates alcoholic cardiomyopathy in male mice by inducing prohibitin-2 dephosphorylation and impairing mitochondrial quality control. *Clinical and translational medicine*, 14(8), e1806.

Praharaj PP, et al. (2024) CLU (clusterin) and PPARGC1A/PGC1 β coordinately control mitophagy and mitochondrial biogenesis for oral cancer cell survival. *Autophagy*, 20(6),

Russo T, et al. (2023) The SATB1-MIR22-GBA axis mediates glucocerebroside accumulation inducing a cellular senescence-like phenotype in dopaminergic neurons. *bioRxiv : the preprint server for biology*.

Sung MJ, et al. (2023) PTEN-induced kinase 1 exerts protective effects in diabetic kidney disease by attenuating mitochondrial dysfunction and necroptosis. *International journal of biological sciences*, 19(16), 5145.

Wang Z, et al. (2023) Morin exhibits a neuroprotective effect in MPTP-induced Parkinson's disease model via TFEB/AMPK-mediated mitophagy. *Phytomedicine : international journal of phytotherapy and phytopharmacology*, 116, 154866.

Sun X, et al. (2023) Parkin regulates IGF2BP3 through ubiquitination in the tumourigenesis of cervical cancer. *Clinical and translational medicine*, 13(10), e1457.

Terrén I, et al. (2023) IL-12/15/18-induced cell death and mitochondrial dynamics of human NK cells. *Frontiers in immunology*, 14, 1211839.

Duan P, et al. (2022) PINK1/Parkin-Mediated Mitophagy Plays a Protective Role in Albumin Overload-Induced Renal Tubular Cell Injury. *Frontiers in bioscience (Landmark edition)*, 27(6), 184.

Fisher CR, et al. (2022) Quantification of mitophagy using mKeima-mito in cultured human primary retinal pigment epithelial cells. *Experimental eye research*, 217, 108981.