

Resource Summary Report

Generated by [nidm-terms](#) on Jul 31, 2026

Mfn2-YFP

RRID:Addgene_28010

Type: Plasmid

Proper Citation

RRID:Addgene_28010

Plasmid Information

URL: <http://www.addgene.org/28010>

Proper Citation: RRID:Addgene_28010

Insert Name: mitofusin 2

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:12499352](#)

Vector Backbone Description: Backbone Size:4700; Vector Backbone:YFP-N1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: Santel, A. and M.T. Fuller, Control of mitochondrial morphology by a human mitofusin. J Cell Sci, 2001. 114(Pt 5): p. 867-74.

Plasmid Name: Mfn2-YFP

Relevant Mutation: silent S508S

Record Creation Time: 20220422T222126+0000

Record Last Update: 20260725T074524+0000

Ratings and Alerts

No rating or validation information has been found for Mfn2-YFP.

No alerts have been found for Mfn2-YFP.

Data and Source Information

Usage and Citation Metrics

We found 14 mentions in open access literature.

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

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

Sá-Pessoa J, et al. (2023) A trans-kingdom T6SS effector induces the fragmentation of the mitochondrial network and activates innate immune receptor NLRX1 to promote infection. *Nature communications*, 14(1), 871.

Zhou J, et al. (2023) MORN4 protects cardiomyocytes against ischemic injury via MFN2-mediated mitochondrial dynamics and mitophagy. *Free radical biology & medicine*, 196, 156.

Márquez-Nogueras KM, et al. (2022) Polycystin-2 (PC2) is a key determinant of in vitro myogenesis. *American journal of physiology. Cell physiology*, 323(2), C333.

Tanwar J, et al. (2022) Mitofusin-2 Negatively Regulates Melanogenesis by Modulating Mitochondrial ROS Generation. *Cells*, 11(4).

Baek M, et al. (2021) TDP-43 and PINK1 mediate CHCHD10S59L mutation-induced defects in *Drosophila* and in vitro. *Nature communications*, 12(1), 1924.

Delmotte P, et al. (2021) TNF α induces mitochondrial fragmentation and biogenesis in human airway smooth muscle. *American journal of physiology. Lung cellular and molecular physiology*, 320(1), L137.

Fessler E, et al. (2020) A pathway coordinated by DELE1 relays mitochondrial stress to the cytosol. *Nature*, 579(7799), 433.

Du M, et al. (2020) Mitofusin 2 but not mitofusin 1 mediates Bcl-XL-induced mitochondrial aggregation. *Journal of cell science*, 133(20).

Purohit PK, et al. (2019) MiR-195 regulates mitochondrial function by targeting mitofusin-2 in breast cancer cells. *RNA biology*, 16(7), 918.

Gao J, et al. (2019) Endoplasmic reticulum mediates mitochondrial transfer within the osteocyte dendritic network. *Science advances*, 5(11), eaaw7215.

Fang D, et al. (2016) Mfn2 is Required for Mitochondrial Development and Synapse Formation in Human Induced Pluripotent Stem Cells/hiPSC Derived Cortical Neurons. *Scientific reports*, 6, 31462.

Lim GG, et al. (2013) Proteasome inhibition promotes Parkin-Ubc13 interaction and lysine 63-linked ubiquitination. *PLoS one*, 8(9), e73235.

Zhang GE, et al. (2013) Anti-tumor effects of Mfn2 in gastric cancer. International journal of molecular sciences, 14(7), 13005.