Resource Summary Report

Generated by nidm-terms on Aug 29, 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: 20260829T080325+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

Source: Addgene

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? 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.