Resource Summary Report

Generated by NIF on Jul 29, 2026

Mfn2-Myc

RRID:Addgene_23213
Type: Plasmid

Proper Citation

RRID:Addgene_23213

Plasmid Information

URL: http://www.addgene.org/23213

Proper Citation: RRID:Addgene_23213

Insert Name: Mfn2

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: PMID:12527753

Vector Backbone Description: Backbone Size:5000; Vector Backbone:pcDNA3.1(-)/Myc-His; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: 16 Myc tags and His tag at the C-terminus.

Plasmid Name: Mfn2-Myc

Record Creation Time: 20220422T222103+0000

Record Last Update: 20260725T074439+0000

Ratings and Alerts

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

No alerts have been found for Mfn2-Myc.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 20 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF .

Kolitsida P, et al. (2024) Mfn2 induces NCLX-mediated calcium release from mitochondria. bioRxiv : the preprint server for biology.

Wang Y, et al. (2023) Atypical peripheral actin band formation via overactivation of RhoA and nonmuscle myosin II in mitofusin 2-deficient cells. eLife, 12.

Roverato ND, et al. (2021) Parkin is an E3 ligase for the ubiquitin-like modifier FAT10, which inhibits Parkin activation and mitophagy. Cell reports, 34(11), 108857.

Motori E, et al. (2020) Neuronal metabolic rewiring promotes resilience to neurodegeneration caused by mitochondrial dysfunction. Science advances, 6(35), eaba8271.

Ballard A, et al. (2020) The tethering function of mitofusin2 controls osteoclast differentiation by modulating the Ca2+-NFATc1 axis. The Journal of biological chemistry, 295(19), 6629.

Chung E, et al. (2020) Intracellular delivery of Parkin rescues neurons from accumulation of damaged mitochondria and pathological ?-synuclein. Science advances, 6(18), eaba1193.

Huang NK, et al. (2019) Morphological control of mitochondria as the novel mechanism of Gastrodia elata in attenuating mutant huntingtin-induced protein aggregations. Phytomedicine : international journal of phytotherapy and phytopharmacology, 59, 152756.

Freyre CAC, et al. (2019) MIGA2 Links Mitochondria, the ER, and Lipid Droplets and Promotes De Novo Lipogenesis in Adipocytes. Molecular cell, 76(5), 811.

Ribeiro MF, et al. (2019) Amyloid ? Peptide Compromises Neural Stem Cell Fate by Irreversibly Disturbing Mitochondrial Oxidative State and Blocking Mitochondrial Biogenesis and Dynamics. Molecular neurobiology, 56(6), 3922.

Shen M, et al. (2019) Reduced mitochondrial fusion and Huntingtin levels contribute to impaired dendritic maturation and behavioral deficits in Fmr1-mutant mice. Nature neuroscience, 22(3), 386.

Wong YC, et al. (2019) Lysosomal Regulation of Inter-mitochondrial Contact Fate and Motility in Charcot-Marie-Tooth Type 2. Developmental cell, 50(3), 339.

Huang CY, et al. (2018) Inhibition of ERK-Drp1 signaling and mitochondria fragmentation alleviates IGF-IIR-induced mitochondria dysfunction during heart failure. Journal of molecular and cellular cardiology, 122, 58.

Mattie S, et al. (2018) A new mitofusin topology places the redox-regulated C terminus in the mitochondrial intermembrane space. The Journal of cell biology, 217(2), 507.

Chun SK, et al. (2018) Loss of sirtuin 1 and mitofusin 2 contributes to enhanced ischemia/reperfusion injury in aged livers. Aging cell, 17(4), e12761.

Pernas L, et al. (2018) Mitochondria Restrict Growth of the Intracellular Parasite Toxoplasma gondii by Limiting Its Uptake of Fatty Acids. Cell metabolism, 27(4), 886.

Bahat A, et al. (2018) MTCH2-mediated mitochondrial fusion drives exit from naïve pluripotency in embryonic stem cells. Nature communications, 9(1), 5132.

Biel TG, et al. (2016) Sirtuin 1 suppresses mitochondrial dysfunction of ischemic mouse livers in a mitofusin 2-dependent manner. Cell death and differentiation, 23(2), 279.

Norkett R, et al. (2016) DISC1-dependent Regulation of Mitochondrial Dynamics Controls the Morphogenesis of Complex Neuronal Dendrites. The Journal of biological chemistry, 291(2), 613.

Li L, et al. (2015) p38 MAP kinase-dependent phosphorylation of the Gp78 E3 ubiquitin ligase controls ER-mitochondria association and mitochondria motility. Molecular biology of the cell, 26(21), 3828.

Martorell-Riera A, et al. (2014) Mfn2 downregulation in excitotoxicity causes mitochondrial dysfunction and delayed neuronal death. The EMBO journal, 33(20), 2388.