Resource Summary Report

Generated by dkNET on Jul 30, 2026

Mfn1-Myc

RRID:Addgene_23212
Type: Plasmid

Proper Citation

RRID:Addgene_23212

Plasmid Information

URL: http://www.addgene.org/23212

Proper Citation: RRID:Addgene_23212

Insert Name: Mfn1

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

Plasmid Name: Mfn1-Myc

Record Creation Time: 20220422T222103+0000

Record Last Update: 20260725T074439+0000

Ratings and Alerts

No rating or validation information has been found for Mfn1-Myc.

No alerts have been found for Mfn1-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 dkNET .

Jiang C, et al. (2024) Targeting mitochondrial dynamics of morphine-responsive dopaminergic neurons ameliorates opiate withdrawal. The Journal of clinical investigation, 134(5).

Gatti P, et al. (2023) Mitochondria- and ER-associated actin are required for mitochondrial fusion. 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.

Casellas-Díaz S, et al. (2021) Mfn2 localization in the ER is necessary for its bioenergetic function and neuritic development. EMBO reports, 22(9), e51954.

Duan X, et al. (2020) Dynamic organelle distribution initiates actin-based spindle migration in mouse oocytes. Nature communications, 11(1), 277.

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.

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

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.

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.

Wu MJ, et al. (2019) Epithelial-Mesenchymal Transition Directs Stem Cell Polarity via Regulation of Mitofusin. Cell metabolism, 29(4), 993.

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.

Muñoz-Úbeda M, et al. (2019) Gemini-Based Lipoplexes Complement the Mitochondrial Phenotype in MFN1-Knockout Mouse Embryonic Fibroblasts. Molecular pharmaceutics, 16(12), 4787.

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.

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.

Stafa K, et al. (2014) Functional interaction of Parkinson's disease-associated LRRK2 with members of the dynamin GTPase superfamily. Human molecular genetics, 23(8), 2055.

Glauser L, et al. (2011) Parkin promotes the ubiquitination and degradation of the mitochondrial fusion factor mitofusin 1. Journal of neurochemistry, 118(4), 636.