Resource Summary Report

Generated by NIF on Sep 22, 2026

STOCK *Mfn1*^{tm2Dcc}/Mmucd

RRID:MMRRC_029901-UCD
Type: Organism

Proper Citation

RRID:MMRRC_029901-UCD

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=29901

Proper Citation: RRID:MMRRC_029901-UCD

Description: Mus musculus with name STOCK *Mfn1*^{tm2Dcc}/Mmucd from MMRRC.

Species: Mus musculus

Notes: Research areas: Apoptosis, Cell Biology, Developmental Biology, Neurobiology, Reproduction; Mutation Type: Targeted Mutation ; Collection:

Phenotype: Purkinje cell degeneration [MP:0000876]| decreased body size [MP:0001265]| impaired righting response [MP:0001523]| impaired limb coordination [MP:0001524]| no abnormal phenotype detected [MP:0002169]| abnormal mitochondrion morphology [MP:0006035]| abnormal Purkinje cell dendrite morphology [MP:0008572]| abnormal respiratory electron transport chain [MP:0010955]| postnatal lethality [MP:0011085]| complete penetrance [MP:0011087]| neonatal lethality [MP:0011088]| complete penetrance [MP:0011091]

Affected Gene: Mfn1

Catalog Number: 029901-UCD

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: PMID:17693261, PMID:12527753

Alternate IDs: MMRRC_29901-UCD, MMRRC_029901, MMRRC_2991

Organism Name: STOCK *Mfn1*^{tm2Dcc}/Mmucd

Record Creation Time: 20230308T055117+0000

Record Last Update: 20260919T133814+0000

Ratings and Alerts

No rating or validation information has been found for STOCK *Mfn1*^{tm2Dcc}/Mmucd.

No alerts have been found for STOCK *Mfn1*^{tm2Dcc}/Mmucd.

Data and Source Information

Source: Integrated Animals

Source Database: Mutant Mouse Resource and Research Center (MMRRC)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Irazoki A, et al. (2023) Disruption of mitochondrial dynamics triggers muscle inflammation through interorganellar contacts and mitochondrial DNA mislocation. Nature communications, 14(1), 108.

Bhatia D, et al. (2022) Conditional deletion of myeloid-specific mitofusin 2 but not mitofusin 1 promotes kidney fibrosis. Kidney international, 101(5), 963.

Miao J, et al. (2021) MFN1 and MFN2 Are Dispensable for Sperm Development and Functions in Mice. International journal of molecular sciences, 22(24).

Carvalho KF, et al. (2020) Mitofusin??1 is required for oocyte growth and communication with follicular somatic cells. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 34(6), 7644.

Chung KP, et al. (2019) Mitofusins regulate lipid metabolism to mediate the development of lung fibrosis. Nature communications, 10(1), 3390.