Resource Summary Report

Generated by NIF on Sep 9, 2026

D2.B10-Dmd^{mdx}/J

RRID:IMSR_JAX:013141
Type: Organism

Proper Citation

RRID:IMSR_JAX:013141

Organism Information

URL: https://www.jax.org/strain/013141

Proper Citation: RRID:IMSR_JAX:013141

Description: Mus musculus with name D2.B10-Dmd^{mdx}/J from IMSR.

Species: Mus musculus

Synonyms: D2-mdx

Notes: gene symbol note: dystrophin; muscular dystrophy; mutant strain|congenic strain: Dmd

Affected Gene: dystrophin; muscular dystrophy

Genomic Alteration: X linked muscular dystrophy

Catalog Number: JAX:013141

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: D2.B10-Dmd^{mdx}/J

Record Creation Time: 20250513T053724+0000

Record Last Update: 20260905T044508+0000

Ratings and Alerts

No rating or validation information has been found for D2.B10-Dmd^{mdx}/J.

No alerts have been found for D2.B10-Dmd^{mdx}/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 31 mentions in open access literature.

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

Reynaud O, et al. (2026) Parkin overexpression attenuates muscle atrophy and improves mitochondrial bioenergetics but not histological features of Duchenne muscular dystrophy in mice. Scientific reports, 16(1), 4139.

Guillemaud J, et al. (2026) Stimulation of EGFR signaling in fibro-adipogenic precursors decreases adipogenesis in Duchenne muscular dystrophy. Skeletal muscle, 16(1).

Tinklenberg JA, et al. (2026) The D2.B10-Dmdmdx/J Mouse Model of Duchenne Muscular Dystrophy Exhibits a Severe Mitochondrial Deficiency Not Observed in the C57BL/10ScSn-Dmdmdx/J Mouse. The American journal of pathology, 196(2), 532.

Narra N, et al. (2026) Positive allosteric modulator of SERCA pump NDC-1171 attenuates cardiac functional decline in mouse model of Duchenne muscular dystrophy. bioRxiv : the preprint server for biology.

Cedervall T, et al. (2026) Humanin improves bone health in a glucocorticoid-treated mouse model of Duchenne muscular dystrophy. Biochemistry and biophysics reports, 45, 102421.

Kendra JA, et al. (2026) A Borophosphate Glass Doped with Cobalt Oxide Improves Skeletal Muscle Structure and Function in Myopathic Mice. Journal of functional biomaterials, 17(3).

Kendra JA, et al. (2025) Time Release Ion Matrix Regenerates Dystrophic Skeletal Muscle. Research square.

Andreana I, et al. (2025) Nanoparticle delivery of AMPK activator 991 prevents its toxicity and improves muscle homeostasis in Duchenne muscular dystrophy. Molecular therapy. Methods & clinical development, 33(3), 101564.

Marcella BM, et al. (2024) GSK3 inhibition improves skeletal muscle function and whole-body metabolism in male mouse models of Duchenne muscular dystrophy. Nature communications, 15(1), 10210.

De Giorgio D, et al. (2023) Characterization of the Cardiac Structure and Function of Conscious D2.B10-Dmdmdx/J (D2-mdx) mice from 16-17 to 24-25 Weeks of Age. International journal of molecular sciences, 24(14).

Boccanegra B, et al. (2023) LKB1 signaling is altered in skeletal muscle of a Duchenne muscular dystrophy mouse model. Disease models & mechanisms, 16(7).

Shen Y, et al. (2023) Identification of Novel Gene Regulatory Networks for Dystrophin Protein in Vascular Smooth Muscle Cells by Single-Nuclear Transcriptome Analysis. Cells, 12(6).

Shen Y, et al. (2023) Uncovering the Gene Regulatory Network of Endothelial Cells in Mouse Duchenne Muscular Dystrophy: Insights from Single-Nuclei RNA Sequencing Analysis. Biology, 12(3).

Uapinyoying P, et al. (2023) Single-cell transcriptomic analysis of the identity and function of fibro/adipogenic progenitors in healthy and dystrophic muscle. iScience, 26(8), 107479.

Bellissimo CA, et al. (2023) Memory impairment in the D2.mdx mouse model of Duchenne muscular dystrophy is prevented by the adiponectin receptor agonist ALY688. Experimental physiology, 108(9), 1108.

Wohlgemuth RP, et al. (2023) The extracellular matrix of dystrophic mouse diaphragm accounts for the majority of its passive stiffness and is resistant to collagenase digestion. Matrix biology plus, 18, 100131.

Albini S, et al. (2023) Assessment of Therapeutic Potential of a Dual AAV Approach for Duchenne Muscular Dystrophy. International journal of molecular sciences, 24(14).

Cernisova V, et al. (2023) Microdystrophin Gene Addition Significantly Improves Muscle Functionality and Diaphragm Muscle Histopathology in a Fibrotic Mouse Model of Duchenne Muscular Dystrophy. International journal of molecular sciences, 24(9).

Brashear SE, et al. (2022) Collagen cross-links scale with passive stiffness in dystrophic mouse muscles, but are not altered with administration of a lysyl oxidase inhibitor. PloS one, 17(10), e0271776.

Hayes HM, et al. (2022) Preserved Left Ventricular Function despite Myocardial Fibrosis and Myopathy in the Dystrophin-Deficient D2.B10-Dmd mdx /J Mouse. Oxidative medicine and cellular longevity, 2022, 5362115.