

Resource Summary Report

Generated by [Kravitz](#) on Sep 19, 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: 20260919T054911+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 [Kravitz](#) .

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.