Resource Summary Report

Generated by NIF on Aug 14, 2026

C57BL/10ScSn-Dmd^{mdx}/J

RRID:IMSR_JAX:001801
Type: Organism

Proper Citation

RRID:IMSR_JAX:001801

Organism Information

URL: https://www.jax.org/strain/001801

Proper Citation: RRID:IMSR_JAX:001801

Description: Mus musculus with name C57BL/10ScSn-Dmd^{mdx}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: toll-like receptor 4|dystrophin; muscular dystrophy; coisogenic strain|mutant strain: Tlr4|Dmd

Affected Gene: toll-like receptor 4|dystrophin; muscular dystrophy

Genomic Alteration: defective lipopolysaccharide response; deletion|X linked muscular dystrophy

Catalog Number: JAX:001801

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C57BL/10ScSn-Dmd^{mdx}/J

Record Creation Time: 20250513T053627+0000

Record Last Update: 20260808T050829+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/10ScSn-Dmd^{mdx}/J.

No alerts have been found for C57BL/10ScSn-Dmd^{mdx}/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 285 mentions in open access literature.

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

Wehling-Henricks M, et al. (2026) CTLA4-Ig reduces proliferation and inflammatory gene expression in muscle fibroblasts, corresponding to less fibrosis and inflammation in mdx muscular dystrophy. American journal of physiology. Cell physiology, 330(5), C1172.

Mastrostefano F, et al. (2025) Central Neurophysiological Alterations in Dystrophic mdx Mice Correlate With Reduced Hippocampal Levels of the Endogenous NMDA Receptor Ligand D-Aspartate. Journal of neurochemistry, 169(9), e70223.

Park SE, et al. (2024) Anti-necroptotic effects of human Wharton's jelly-derived mesenchymal stem cells in skeletal muscle cell death model via secretion of GRO-?. PloS one, 19(12), e0313693.

You JS, et al. (2024) Leucyl-tRNA Synthetase Contributes to Muscle Weakness through Mammalian Target of Rapamycin Complex 1 Activation and Autophagy Suppression in a Mouse Model of Duchenne Muscular Dystrophy. The American journal of pathology, 194(8), 1571.

Matias-Valiente L, et al. (2024) Evaluation of pro-regenerative and anti-inflammatory effects of isolecanoric acid in the muscle: Potential treatment of Duchenne Muscular Dystrophy. Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie, 170, 116056.

Vu Hong A, et al. (2023) Dlk1-Dio3 cluster miRNAs regulate mitochondrial functions in the dystrophic muscle in Duchenne muscular dystrophy. Life science alliance, 6(1).

Treuer AV, et al. (2023) New NADPH Oxidase 2 Inhibitors Display Potent Activity against Oxidative Stress by Targeting p22phox-p47phox Interactions. Antioxidants (Basel, Switzerland), 12(7).

Coulis G, et al. (2023) Single-cell and spatial transcriptomics identify a macrophage population associated with skeletal muscle fibrosis. bioRxiv : the preprint server for biology.

Hahn D, et al. (2023) Rapid restitution of contractile dysfunction by synthetic copolymers in dystrophin-deficient single live skeletal muscle fibers. Skeletal muscle, 13(1), 9.

Russell AJ, et al. (2023) Modulating fast skeletal muscle contraction protects skeletal muscle in animal models of Duchenne muscular dystrophy. The Journal of clinical investigation, 133(10).

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

Da Silva A, et al. (2023) N-acetylneuraminate pyruvate lyase controls sialylation of muscle glycoproteins essential for muscle regeneration and function. Science advances, 9(26), eade6308.

Dominici C, et al. (2023) Inhibition of type I PRMTs reforms muscle stem cell identity enhancing their therapeutic capacity. eLife, 12.

Batti Angulski AB, et al. (2023) Molecular homing and retention of muscle membrane stabilizing copolymers by non-invasive optical imaging in vivo. Molecular therapy. Methods & clinical development, 28, 162.

Kalkan H, et al. (2023) Targeting gut dysbiosis against inflammation and impaired autophagy in Duchenne muscular dystrophy. EMBO molecular medicine, 15(3), e16225.

Coulis G, et al. (2023) Single-cell and spatial transcriptomics identify a macrophage population associated with skeletal muscle fibrosis. Science advances, 9(27), eadd9984.

Marcadet L, et al. (2023) RANKL Inhibition Reduces Cardiac Hypertrophy in mdx Mice and Possibly in Children with Duchenne Muscular Dystrophy. Cells, 12(11).

G?owniak-Kwitek U, et al. (2023) Effect of heme oxygenase-1 on the differentiation of human myoblasts and the regeneration of murine skeletal muscles after acute and chronic injury. Pharmacological reports : PR, 75(2), 397.

Engelbeen S, et al. (2023) Efficient Downregulation of Alk4 in Skeletal Muscle After Systemic Treatment with Conjugated siRNAs in a Mouse Model for Duchenne Muscular Dystrophy. Nucleic acid therapeutics, 33(1), 26.

García-Cruz C, et al. (2023) Tissue- and cell-specific whole-transcriptome meta-analysis from brain and retina reveals differential expression of dystrophin complexes and new dystrophin spliced isoforms. Human molecular genetics, 32(4), 659.