Resource Summary Report

Generated by NIF on Sep 16, 2026

B6Ros.Cg-Dmd$^{mdx-4Cv}$/J

RRID:IMSR_JAX:002378
Type: Organism

Proper Citation

RRID:IMSR_JAX:002378

Organism Information

URL: https://www.jax.org/strain/002378

Proper Citation: RRID:IMSR_JAX:002378

Description: Mus musculus with name B6Ros.Cg-Dmd$^{mdx-4Cv}$/J from IMSR.

Species: Mus musculus

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

Affected Gene: dystrophin; muscular dystrophy

Genomic Alteration: X linked muscular dystrophy 4; Verne Chapman

Catalog Number: JAX:002378

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6Ros.Cg-Dmd$^{mdx-4Cv}$/J

Record Creation Time: 20250513T053631+0000

Record Last Update: 20260912T060416+0000

Ratings and Alerts

No rating or validation information has been found for B6Ros.Cg-Dmd$^{mdx-4Cv}$/J.

No alerts have been found for B6Ros.Cg-Dmd$^{mdx-4Cv}$/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Florio F, et al. (2022) Targeting Muscle-Resident Single Cells Through in vivo Electro-Enhanced Plasmid Transfer in Healthy and Compromised Skeletal Muscle. Frontiers in physiology, 13, 834705.

Domenig SA, et al. (2022) CRISPR/Cas9 editing of directly reprogrammed myogenic progenitors restores dystrophin expression in a mouse model of muscular dystrophy. Stem cell reports, 17(2), 321.

Pappas MP, et al. (2022) Defining the Skeletal Myogenic Lineage in Human Pluripotent Stem Cell-Derived Teratomas. Cells, 11(9).

Sénéchal C, et al. (2022) The adhesion G-protein-coupled receptor Gpr116 is essential to maintain the skeletal muscle stem cell pool. Cell reports, 41(7), 111645.

Xu L, et al. (2021) Efficient precise in vivo base editing in adult dystrophic mice. Nature communications, 12(1), 3719.

Tichy ED, et al. (2021) Persistent NF-?B activation in muscle stem cells induces proliferation-independent telomere shortening. Cell reports, 35(6), 109098.

Nance ME, et al. (2019) AAV9 Edits Muscle Stem Cells in Normal and Dystrophic Adult Mice. Molecular therapy : the journal of the American Society of Gene Therapy, 27(9), 1568.

Liang F, et al. (2018) The dual CCR2/CCR5 chemokine receptor antagonist Cenicriviroc reduces macrophage infiltration and disease severity in Duchenne muscular dystrophy (Dmdmdx-4Cv) mice. PloS one, 13(3), e0194421.

Park JS, et al. (2018) Non-invasive tracking of disease progression in young dystrophic muscles using multi-parametric MRI at 14T. PloS one, 13(10), e0206323.

Judson RN, et al. (2018) Inhibition of Methyltransferase Setd7 Allows the In Vitro Expansion of Myogenic Stem Cells with Improved Therapeutic Potential. Cell stem cell, 22(2), 177.

Guess MG, et al. (2015) miR-30 family microRNAs regulate myogenic differentiation and provide negative feedback on the microRNA pathway. PloS one, 10(2), e0118229.

Dupont JB, et al. (2015) Short-lived recombinant adeno-associated virus transgene expression in dystrophic muscle is associated with oxidative damage to transgene mRNA. Molecular therapy. Methods & clinical development, 2, 15010.

Park J, et al. (2015) Multi-parametric MRI at 14T for muscular dystrophy mice treated with AAV vector-mediated gene therapy. PloS one, 10(4), e0124914.

Ieronimakis N, et al. (2013) Increased sphingosine-1-phosphate improves muscle regeneration in acutely injured mdx mice. Skeletal muscle, 3(1), 20.

Li D, et al. (2011) iNOS ablation does not improve specific force of the extensor digitorum longus muscle in dystrophin-deficient mdx4cv mice. PloS one, 6(6), e21618.