B6Ros.Cg-Dmd mdx-Cv/J

Stock No: 002378 | X linked muscular dystrophy 4

Chemically Induced Mutation, Congenic

Available

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.

Overview

Also Known As: X linked muscular dystrophy 4

This spontaneous mutation of Dmd is one several Dmd\textsuperscript{mdx} revertants and exhibits muscle fiber necrosis, fibrosis and centrally nucleated skeletal muscle fibers. This allele has 10-fold fewer revertants than mdx-2Cv and mdx-3Cv and may be useful in studies of muscular dystrophy.

Donating Investigator

Dr. Verne M. Chapman (deceased), Roswell Park Memorial Institute

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## Genetic Overview

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>N12F17pF16</td>
<td>(2018-04-02 00:00:00)</td>
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</table>

### Dmd<sup>mdx-4Cv</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemically induced (ENU)</td>
<td>Dmd</td>
<td>dystrophin, muscular dystrophy</td>
</tr>
</tbody>
</table>

View Genetics

## Research Applications

Mouse/Human Gene Homologs

Neurobiology Research

View All Research Applications

## Base Price

Starting at:

$0.00 Domestic price for male

View Price List

## Details

### Detailed Description

The Dmd<sup>mdx-4Cv</sup> and Dmd<sup>mdx-5Cv</sup> strains have 10 times fewer revertants than the Dmd<sup>mdx</sup> and Dmd<sup>mdx-2Cv</sup> strains as viewed in quadriceps cross-sections. This is not attributable to genetic background or viral infections. These reversion rate differences may be attributable to differences in the location of the point mutation. The large number of revertants in Dmd<sup>mdx</sup> mutants has complicated the analysis of gene or cell therapies. These mutants are more useful for this purpose. All these strains are also hemizygous for Hprt<sup>a</sup> and Pkg1<sup>+</sup> (both are on the X chromosome).

### Development

### Control Suggestions

### Selected References

### Genetics

- Dmd<sup>mdx-4Cv</sup>
Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
Pyrosequencing: Dmd<sup>mdx-4Cv</sup>
End Point Analysis: Dmd<sup>mdx-4Cv</sup> EP Alternate1
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
This strain is maintained by mating homozygous females to hemizygous males (X-linked).
Additional Breeding and Husbandry Support

Mating System
Homozygote x Hemizygote

Citation
When using the X-linked muscular dystrophy 4 mouse strain in a publication, please cite the originating article(s) and include JAX stock #002378 in your Materials and Methods section.
Facility Barrier Level Descriptions

Pricing & Availability

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All

By Allele

By Gene

By Collection

All Related Strains