

SWR/J-*Clcn1*^{adr-mto} /J

Stock No: 000939 | myotonia

📍 Coisogenic, Spontaneous Mutation

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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GENETIC OVERVIEW

Genetic Background

Generation

Clcn1^{adr-mto}

Allele Type

Spontaneous

Gene Symbol

Clcn1

Gene Name

chloride channel, voltage-sensitive 1

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Mouse/Human Gene Homologs

Cell Biology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

Details

Important Note

This strain is homozygous for the retinal degeneration allele *Pde6b*^{rd1}.

Detailed Description

Mice homozygous for the myotonia spontaneous mutations exhibit classical myotonia similar to that described in human myotonic diseases. Homozygotes are recognizable at 2 weeks of age or earlier by prolonged, stiff extension postures of the limbs when the cage is shaken or the mouse is dropped from about 10 cm. This behavior persists throughout life. When undisturbed, affected animals walk almost normally, although somewhat stiffly. They grow more slowly and weigh about 40% less than controls in adulthood. Electromyographic studies revealed changes characteristic of myotonia. These discharges do not originate in peripheral nerves, and there is no evidence of muscle fiber necrosis.

Development

Control Suggestions

Selected References

Genetics

Clcn1^{adr-mto}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Separated PCR:[Clcn1](#)

Sanger sequencing:[Clcn1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Until at least 7 weeks of age, homozygotes require a wildtype companion for warmth in shipping.

[Additional Breeding and Husbandry Support](#)

Appearance

albino, myotonia

Related Genotype: $A/A Tyr^c / Tyr^c Clcn1^{adr-mto} / Clcn1^{adr-mto}$

albino, non-myotonic (unaffected)

Related Genotype: $A/A Tyr^c / Tyr^c +/?$ or $A/A Tyr^c / Tyr^c Clcn1^{adr-mto} / +$

Citation

When using the myotonia mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #000939 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)

Pricing & Availability



Cryo
Recovery

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or Homozygous or Wild-type for $Clcn1^{<adr-mto>}$	\$2,854.50

PAYMENT TERMS AND CONDITIONS

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

THE JACKSON LABORATORY'S GENOTYPE PROMISE

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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Q U E S T I O N S A B O U T T E R M S O F U S E

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

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TOMORROW'S CURES



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