

STOCK *Utrn*^{tm1Ked} /J

Stock No: 013158 | utr-

 Targeted Mutation

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

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Duchenne Type Muscular Dystrophy.

Donating Investigator

Kay Davies, University of Oxford

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GENETIC OVERVIEW

Genetic Background

Generation

Utrn^{tm1Ked}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Utrn

utrophin

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

Details

Detailed Description

Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. No gene product (protein) is detected by Western blot analysis of kidney, lung and brain tissues. Levels of transcript are significantly reduced, as detected by RNase protection assay. Neuromuscular junctions from homozygotes lack extrasynaptic nerve sprouts, exhibit reduced postsynaptic membrane folding and fewer (approximately 40% reduction) acetylcholine receptors. The amplitude of miniature endplate currents (in extensor digitorum longus muscle) is reduced by 20%. Homozygotes exhibit abnormal Schwann cell compartments and reduced internodal length.

When bred with mice carrying the Dmd^{mdx} allele (see Stock No. [001801](#)) the resulting double mutant mice exhibit a more severe phenotype than single Dmd^{mdx} mutants: earlier onset of muscle dystrophy (degeneration, macrophage infiltration and necrosis), weight loss after weaning, joint contractures, kyphosis, dystrophy of extraocular muscles, abnormal electrocardiograms, infertility and premature death. This double mutant strain is a model for Duchenne Type Muscular Dystrophy.

When bred with mice carrying the $Dmd^{mdx-3Cv}$ allele (see Stock No. [002377](#)), the resulting double mutant mice develop skeletal muscle abnormalities similar to the Dmd^{mdx} , $Utrn^{tm1Ked}$ double mutant, but lack pathology of nonmuscle tissues.

Development

Control Suggestions

Selected References

Genetics

$Utrn^{tm1Ked}$

– Disease/Phenotype

+ [Disease Terms](#)

+ [Research Areas By Phenotype](#)

+ [Mammalian Phenotype Terms by Genotype](#)

+ [References](#)

– Technical Support

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

Probe:[Utrn-PROBE](#)

Standard PCR:[Utrnalternate1](#)

Separated PCR:[Utrnalternate1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Citation

When using the utr- mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #013158 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

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 for Utrn<tm1Ked>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	STOCK Utrn<tm1Ked>/J Frozen Embryo	\$2595.00
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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

By Gene

By Collection



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