

## B6(Cg)-*Slc6a8*<sup>tm1.2Clar</sup> /J

Stock No: 021072 | CrT knockout

 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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creatine transporter gene on the X chromosome. These mice may be useful for studying creatine transport and human X-linked creatine deficiency syndrome, mental retardation, autism, and speech, language, cognitive, and memory disorders.

### Donating Investigator

Joseph F Clark, University of Cincinnati

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## GENETIC OVERVIEW

Genetic Background

Generation

*Slc6a8*<sup>tm1.2Clar</sup>

**Alele Type**

Targeted (Null/Knockout)

**Gene Symbol**

*Slc6a8*

**Gene Name**

solute carrier family 6 (neurotransmitter transporter, creatine), member 8

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research

Cell Biology Research

Developmental Biology Research

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

The ubiquitous CrT knockout allele ( $\text{CrT}^-$ ) has a deletion of the exons encoding the 2nd-4th transmembrane domain of the creatine transporter gene on the X chromosome. Heterozygous females ( $\text{CrT}^{+/-}$ ) are viable and fertile with no observed abnormalities. Hemizygous males ( $\text{CrT}^{-/Y}$ ) do not breed (perhaps due to behavioral/cognitive phenotype; fertility is unknown). No homozygous females have been generated to date (January 2013). Males hemizygous for the pan deletion ( $\text{CrT}^{-/Y}$ ) lack creatine in brain and muscle, have significant creatine reductions in other tissues (including heart and testis), and exhibit learning and memory deficits resembling human X-linked creatine deficiency syndrome.

Of note, the donating investigator also sent the  $\text{CrT}^{\text{fllox}}$  conditional mice (floxed exons 2-4) to The Jackson Laboratory Repository as Stock No. [020642](#).

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### $\text{Slc6a8}^{\text{tm1.2Clar}}$

### Disease/Phenotype

#### Disease Terms

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[+ Research Areas By Phenotype](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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[+ References](#)

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## [- 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:[Generic Cre Probe](#)

Probe:[Generic FLP](#)

Standard PCR:[Slc6a8-Alternate 1](#)

Standard PCR:[Tg\(ACTFLPe\)](#)

Standard PCR:[Tg\(ACTFLPe\)](#)

Standard PCR:[Generic Neo](#)

Probe:[Generic Neo](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

The targeted mutation is on the X chromosome. Heterozygous females have no reported breeding problems. Hemizygous males do not breed (perhaps due to behavioral/cognitive phenotype; fertility is unknown). When maintaining a live colony, heterozygous females are bred with wildtype males from the colony or with C57BL/6J inbred males (Stock No. [000664](#)).

[Additional Breeding and Husbandry Support](#)

### Citation

When using the CrT knockout mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #021072 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](#)*

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## [- Pricing & Availability](#)



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# Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

## CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	X linked Heterozygous females and wildtype males for Slc6a8<tm1.2Clar>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	B6(Cg)-Slc6a8<tm1.2Clar>/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

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### LICENSING INFORMATION

Phone: 207-288-6470

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By Gene

By Collection



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