

## B6(C3)-Trem2<sup>tm1c(EUCOMM)Wtsi</sup>/AdujJ

Stock No: 029853 | Trem2 flox

 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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generating conditional mutations in applications related to Alzheimer's Disease.

### Donating Investigator

Bruce Lamb, Indiana University School of Medicine

Guixiang Xu, Indiana University School of Medicine

Adrian Oblak, Indiana University School of Medicine, Alzheimer Disease Center

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## GENETIC OVERVIEW

Genetic Background      Generation

*Trem2*<sup>tm1c(EUCOMM)Wtsi</sup>

Alele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed))	<i>Trem2</i>	triggering receptor expressed on myeloid cells 2

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

The targeted *Trem2* gene encodes a protein that is part of a receptor signaling complex with TYRO protein tyrosine kinase binding protein, and that activates macrophages and dendritic cells during immune responses. Loss-of-function variants of the *TREM2* gene are associated with Alzheimer's Disease. These mice possess *loxP* sites on either side of exons 2 and 3 of the targeted gene.

The donating investigator reports that homozygotes are viable and fertile. As the mice are characterized, we will modify the strain description and add phenotype data.

When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exons 2 and 3 deleted in the *cre*-expressing tissues.

#### Development

#### Control Suggestions

### Genetics

#### *Trem2*<sup>tm1c(EUCOMM)Wtsi</sup>

### Disease/Phenotype

#### Disease Terms

#### Research Areas By Phenotype

[- 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

Standard PCR: [Trem2 Alternate1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice can be bred as heterozygotes or homozygotes. The donating investigator reports that homozygotes are viable and fertile.

[Additional Breeding and Husbandry Support](#)

Mating System

Wild-type x Heterozygote

Heterozygote x Wild-type

Citation

When using the Trem2 flox mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #029853 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.

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**CRYORECOVERY - DOMESTIC NOT-FOR-PROFIT & ACADEMIC PRICING**

**SERVICE/PRODUCT**

**DESCRIPTION**

**PRICE**

## RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6(C3)-Trem2&lt;tm1c(EUCOMM)Wtsi&gt;/AdiujJ

\$2595.00

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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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## TERMS OF USE

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QUESTIONS ABOUT TERMS OF USE

## ADDITIONAL USE RESTRICTIONS APPLY

NOT AVAILABLE TO COMPANIES OR FOR COMMERCIAL  
Use of MICE only available to non-profit entities.

## LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)[Related Strains](#)

All

By Allele

By Gene

By Collection



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