

C57BL/6J-Trem2^{em3Aduj} /J

Stock No: **029725** | Trem2 Y38C KI (Trem2*Y38C)

 Coisogenic, Endonuclease-Mediated Mutation

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

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Alzheimer's disease risk.

Donating Investigator

Bruce Lamb, Indiana University School of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

Trem2^{em3Aduj}

Alele Type

Endonuclease-mediated
(Humanized sequence)

Gene Symbol

Trem2

Gene Name

triggering receptor expressed on myeloid cells 2

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology 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

This CRISPR/Cas9-generated knock-out mutant of the *Trem2*, triggering receptor expressed on myeloid cells 2, gene introduces a Y38C point mutation. 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. Homozygotes are viable and fertile. As the mice are characterized, we will modify the strain description and add phenotype data.

Development

Control Suggestions

Genetics

Trem2^{em3Adiuj}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Sanger sequencing: [Trem2](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes. Homozygotes are viable and fertile. As the mice are characterized, we will modify the strain description if necessary and add data related to viability and fertility.

[Additional Breeding and Husbandry Support](#)

Citation

When using the Trem2 Y38C KI (Trem2*Y38C) mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #029725 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

Domestic Pricing for

- Commercial & For-Profit
- Not-For-Profit & Academic

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for Trem2<em3Adpmc>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

C57BL/6J-Trem2^{em3AdiuJ}/J

\$2595.00

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.

Terms Of Use

TERMS OF USE

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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

ADDITIONAL USE RESTRICTIONS APPLY

The use of this mouse model is subject to the terms and conditions of the Limited License from The Broad Institute.

The use of this mouse model is subject to the terms and conditions of the Limited Use Label License from Caribou Biosciences, Inc.

Use of MICE by companies or for-profit entities requires a no-fee JAX Leap License prior to shipping.

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

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