



# C57BL/6J-*Trem2*<sup>tm1.1dij</sup>/J

Stock No: 027197 | Trem2 KO

Coisogenic, Endonuclease-Mediated Mutation



AVAILABLE FOR PRE-ORDER

PRE-ORDER NOW

Estimated to begin distribution on Feb 3, 2020

## Overview



## MODEL-AD

Model Organism Development & Evaluation for Late-Onset Alzheimer's Disease

### Also Known As: Trem2 KO

This CRISPR/Cas9 generated mutant of the *Trem2* gene carries a knock out mutation.

### Donating Investigator

Mike Sasner, The Jackson Laboratory

READ MORE +

## GENETIC OVERVIEW

Genetic Background      Generation  
?+pN2F5  
(2018-04-02 00:00:00)

*Trem2<sup>em2Aduj</sup>*

Allele Type	Gene Symbol	Gene Name
Endonuclease-mediated (Null/Knockout)	<i>Trem2</i>	triggering receptor expressed on myeloid cells 2

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$255.00 Domestic price for female 4-week

VIEW PRICE LIST

### Details

#### Detailed Description

This is a CRISPR/Cas9 generated knock out mutant of the *Trem2*, triggering receptor expressed on myeloid cells 2, gene. The allele has a NHEJ-generated 175bp deletion that introduces a stop codon at amino acid 17. The targeted *Trem2* gene encodes for a protein that is part of a receptor signaling complex with TYRO protein tyrosine kinase binding protein, and that activates macrophages and dendritic cells immune response. Loss-of-function variants of the *TREM2* gene are associated with Alzheimer's Disease. As the mice are characterized, we will modify the strain description and add phenotype data.

#### Development

#### Control Suggestions

### Genetics

[+ Trem2<sup>em2Adiuj</sup>](#)

## – Disease/Phenotype

[+ Disease Terms](#)

[+ Research Areas By Genotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

## – Technical Support

CHAT OFFLINE

CONTACT TECHNICAL SUPPORT

### Genotyping Protocols

Separated PCR: [Trem2<sup>em2\(KO\)Msasn</sup>](#)

End Point Analysis: [Trem2<sup>em1Adiuj</sup>\\_EP](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

Heterozygotes may be bred to C57BL/6J (Stock No. [000664](#)), or wildtype littermates. 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](#)

### Mating System

Homozygote x Homozygote

### Citation

When using the Trem2 KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #027197 in your Materials and Methods section.

[Facility Barrier Level Descriptions](#)

 [AX18 \(Maximum\)](#)

## – Pricing & Availability



Estimated to begin distribution on Feb 3, 2020

Available for  
Pre-order

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse

AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Homozygous for Trem2 <sup>em2Aduj</sup>	\$255.00
	Male	Homozygous for Trem2 <sup>em2Aduj</sup>	\$255.00
5 weeks	Female	Homozygous for Trem2 <sup>em2Aduj</sup>	\$255.00
	Male	Homozygous for Trem2 <sup>em2Aduj</sup>	\$255.00
6 weeks	Female	Homozygous for Trem2 <sup>em2Aduj</sup>	\$255.00
	Male	Homozygous for Trem2 <sup>em2Aduj</sup>	\$255.00
7 weeks	Female	Homozygous for Trem2 <sup>em2Aduj</sup>	\$255.00
	Male	Homozygous for Trem2 <sup>em2Aduj</sup>	\$255.00
8 weeks	Female	Homozygous for Trem2 <sup>em2Aduj</sup>	\$255.00
	Male	Homozygous for Trem2 <sup>em2Aduj</sup>	\$255.00
9 weeks	Female	Homozygous for Trem2 <sup>em2Aduj</sup>	\$255.00
	Male	Homozygous for Trem2 <sup>em2Aduj</sup>	\$255.00
10 weeks	Female	Homozygous for Trem2 <sup>em2Aduj</sup>	\$255.00
	Male	Homozygous for Trem2 <sup>em2Aduj</sup>	\$255.00
11 weeks	Female	Homozygous for Trem2 <sup>em2Aduj</sup>	\$255.00
	Male	Homozygous for Trem2 <sup>em2Aduj</sup>	\$255.00
12 weeks	Female	Homozygous for Trem2 <sup>em2Aduj</sup>	\$255.00
	Male	Homozygous for Trem2 <sup>em2Aduj</sup>	\$255.00

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### Terms of Use

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