

## C57BL/6-Tg(tetO-MAPT)32Lms/J

Stock No: **029269** | TRE-hTau-WT line 32

 Coisogenic, Transgenic

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

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the hTau protein may be regulated with the tetracycline analog doxycycline (dox) in the double-allelic offspring. This strain may be useful as a control strain for (Stock No. [028979](#)) and in studies related to frontotemporal dementia, Alzheimer's disease, and other neurodegenerative diseases.

### Donating Investigator

Lennart Mucke, Gladstone Inst of Neurological Disease

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## GENETIC OVERVIEW

Genetic Background

Generation

### Tg(tetO-MAPT)32Lms

#### Alele Type

Transgenic (Inducible, Inserted expressed sequence, Humanized sequence)

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 hemizygous for the hTau-WT transgene are viable and fertile. Expression of the 1N4R isoform of human MAPT (microtubule associated protein tau) is regulated by a tetracycline operator (*tetO*); also called tetracycline-responsive element (TRE, TetRE) or tet-operator). When mated to a mutant strain expressing tetracycline-controlled transactivator protein (tTA), expression of 1N4R isoform of human MAPT protein may be regulated with tetracycline or its analog doxycycline (dox) in the double mutant offspring. The Donating Investigator reports no human MAPT protein is detected in brain sections from singly transgenic mice by western blotting and immunohistochemical staining. Hemizygotes are viable and fertile. Homozygous viability/fertility has not been tested (June, 2016). This strain may serve as a control strain for (Stock No. [028979](#)).

When these line 32 hTau-WT transgenic mice are crossed to CaMKII-tTA mice (see, for example, Stock No. [003010](#)), the double mutant mice express a similar level of the human MAPT protein when compared to C11-1 line hTau-A152T transgenic mice (Stock No. [028979](#)).

#### Development

#### Expression Data

#### Control Suggestions

#### Selected References

### Genetics

#### Tg(tetO-MAPT)32Lms

### 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

Standard PCR: [Tg\(tetO-MAPT\)](#)

Sanger sequencing: [Tg\(MAPT\\*A152T\)](#)

Probe: [Tg\(MAPT\) cDNA- Probe](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred to wildtype siblings, or to C57BL/6J inbred mice (Stock No. [000664](#)). The Donating Investigator has not attempted to make the strain homozygous.

### [Additional Breeding and Husbandry Support](#)

#### Mating System

Hemizygote x Noncarrier

Noncarrier x Hemizygote

### Citation

When using the TRE-hTau-WT line 32 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #029269 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.

## CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Hemizygous or non-carrier for Tg(tetO-MAPT)32Lms	\$2,854.50

## RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	C57BL/6-Tg(tetO-MAPT)32Lms/J	\$2595.00
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## 🔍 Terms Of Use

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[General Terms and Conditions](#)

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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Phone: 207-288-6470

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

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