

## C57BL/6-Tg(tetO-MAPT\*A152T)L1Lms/J

Stock No: **028979** | TRE-hTau-A152T L1

 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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(tTA), expression of the hTau-A152T protein may be regulated with the tetracycline analog doxycycline (dox) in the double-allelic offspring. This strain may be useful 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\*A152T)L1Lms

#### Alele Type

Transgenic (Inducible, Inserted expressed sequence, Humanized sequence)

VIEW GENETICS

## RESEARCH APPLICATIONS

Developmental Biology Research

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-A152T transgene, founder line line L1, are viable and fertile. Expression of the 1N4R isoform of human MAPT (microtubule associated protein tau) with an A152T substitution 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 mutant 1N4R isoform of human MAPT protein may be regulated with tetracycline or its analog doxycycline (dox) in the double mutant offspring. No human MAPT protein is detected in brain sections from singly transgenic mice by western blotting and immunohistochemical staining. When these line C11-1 hTau-A152T transgenic mice are crossed to CaMKII-tTA mice (see, for example, Stock No. [007004](#)), the adult double mutant mice have a lower body weight than wildtype and single C11-1 hTau-A152T transgenic controls. Hemizygotes are viable and fertile. Homozygous viability/fertility has not been tested (June 2016).

#### + Development

#### + Expression Data

#### + Control Suggestions

#### + Selected References

### - Genetics

#### + Tg(tetO-MAPT\*A152T)L1Lms

### - Disease/Phenotype

#### + Disease Terms

[+ 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](#)

QPCR: [Tg\(MAPT\) cDNA](#)

[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](#)

### Citation

When using the TRE-hTau-A152T L1 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #028979 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

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Cryorecovery - Domestic Pricing

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Hemizygous or non carrier for Tg(tetO-MAPT*A152T)L1Lms	\$2,854.50

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