

B6SJL-Tg(Prnp-TARDBP*A315T)23JleI/J

Stock No: 016203

 Transgenic

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

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related to the study of neuromuscular and neurodegenerative disorders such as ALS (Amyotrophic lateral sclerosis, Lou Gehrig's Disease) and frontotemporal lobar degeneration with ubiquitin aggregates.

Donating Investigator

Jeffrey L Elliott, The University of Texas Southwestern Medical Center

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(Prnp-TARDBP*A315T)23JleI

Alele Type

Transgenic (Inserted expressed sequence, Humanized sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Mouse/Human Gene Homologs

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

TDP43^{A315T} transgenic mice express a full-length human TAR DNA binding protein (*TARDBP*) cDNA containing an A315T amino acid substitution. Expression is directed by the mouse prion protein (*Pmp*) promoter. Hemizygotes from founder line 23 are viable and fertile. These mice display an increase in mean survival as compared with *TDP43*^{A315T} transgenic mice on a STOCK background (Stock No. [016143](#)). The data shows that hemizygous males have median survival of 125 days, while hemizygous females have median survival of 157 days. In neurons of patients with Amyotrophic lateral sclerosis (ALS), ubiquitin and TDP43 positive inclusions are observed. These mice express high levels of A315T TDP-43 in spinal cord, brainstem and brain. Specifically, levels in spinal cord are four-fold that of levels seen in non-transgenic mice. They develop a late onset progressive motor phenotype, characterized by hind limb weakness, progressive decline in grip strength, and reduction in stride length. A shift to cytosolic localization of A315T TDP-43 as well as lower molecular weight form of TDP-43 leads to earlier disease progression in these mice than in WT TDP-43 mice (Stock No. [016201](#)). These transgenic mice may be useful in studying neuromuscular and neurodegenerative disorders such as ALS (Amyotrophic lateral sclerosis, Lou Gehrig's Disease) and frontotemporal lobar degeneration with ubiquitin aggregates.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. It should be noted that the phenotype of these B6SJL/F1 mice could vary from the originally described background. We may modify the strain description if necessary as published results become available.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Pmp-TARDBP*A315T)23Jlel

⊖ Disease/Phenotype

[+ Disease Terms](#)

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

⊖ 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

Separated PCR:[Tg\(Prnp-TARDBP\)](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Mutant mice were bred to B6SJLF1/J hybrid mice for many generations to establish this strain. When maintaining the live colony, hemizygous mice are bred with B6SJLF1/J hybrid mice (Stock No. [100012](#)). On a mixed genetic background (CD1;C57BL/6;SJL), transgenic mice only survive up to 75 days with decreased motor function and progressive neurodegeneration.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6SJL-Tg(Prnp-TARDBP*A315T)23Jle/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #016203 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



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

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or Non Carrier for Tg(Prnp-TARDBP*A315T)23Jlel/	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6SJL-Tg(Prnp-TARDBP*A315T)23Jlel/J Frozen Embryo	\$2595.00
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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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ADDITIONAL USE RESTRICTIONS APPLY

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LICENSING INFORMATION

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- By Gene
- By Collection




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