

## B6SJL-Tg(SOD1\*G93A)1Gur/J

Stock No: **002726** | SOD1-G93A

 Transgenic

Sized to accommodate orders of up to 50 or more. Ask Customer Service for details.

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### Also Known As: B6SJL.SOD1-G93A, SOD1-G93A

SOD1-G93A transgenic mice express a G93A mutant form of human *SOD1* and may be useful in studying neuromuscular disorders such as Amyotrophic Lateral Sclerosis (ALS or Lou Gehrig's Disease).

**Our preclinical efficacy testing services offer scientific expertise and an array of target-based and phenotype-based outcome measures, both in vivo and at endpoint, for flexible study designs and assay development in mouse models of Amyotrophic Lateral Sclerosis. [See our full service platform.](#)**

This SOD1-G93A transgene is available on B6SJL (Stock No. 002726), C57BL/6J (Stock No. [004435](#)) and FVB/NJ (Stock No. [013199](#)). In addition, a very low expressing variant on B6SJL is available (Stock No. [032166](#)).

#### Donating Investigator

Dr. Mark E. Gurney, Tetra Discovery Partners

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## GENETIC OVERVIEW

Genetic Background

Generation

[Contact Technical Support](#)  
(2019-05-22 00:00:00)

## Tg(SOD1\*G93A)1Gur

### Allele Type

Transgenic (Inserted expressed sequence, Humanized sequence)

[VIEW GENETICS](#)

## RESEARCH APPLICATIONS

Metabolism Research  
Neurobiology Research  
Mouse/Human Gene Homologs

[VIEW ALL RESEARCH APPLICATIONS](#)

## BASE PRICE

Starting at:

\$318.63 Domestic price for female 4-week

[VIEW PRICE LIST](#)

### [Details](#)

#### [Detailed Description](#)

Mice hemizygous for this SOD1-G93A (also called G93A-SOD1) transgene are viable and fertile, with transgenic expression of a G93A mutant form of human *SOD1*. This founder line (often referred to as G1H) is reported to have high transgene copy number. Hemizygotes exhibit a phenotype similar to amyotrophic lateral sclerosis (ALS) in humans; becoming paralyzed in one or more limbs with paralysis due to loss of motor neurons from the spinal cord. Transgenic mice have an abbreviated life span: 50% survive at 128.9±9.1 days (in contrast to C57BL/6J background where 50% survival is observed at 157.1±9.3 days). In contrast to LPS-induced microglia and activated M1/M2 macrophages, spinal cord microglia activated by disease progression do not upregulate genes that display a bias to either an M1 (neurotoxic) phenotype or an M2 (protective) phenotype. The pattern of gene expression in SOD1<sup>G93A</sup> activated microglia represents a unique ALS-specific signature. When maintaining a live colony, it has been the experience of The Jackson Laboratory that male mice are aggressive. It is our recommendation that no more than 4 males are housed in a box. These SOD1-G93A (also called G93A-SOD1) transgenic mice may be useful in studying neuromuscular disorders, including Amyotrophic Lateral Sclerosis (ALS or Lou Gehrig's Disease).

This strain ships with a JAXTag™ affixed. Learn more about JAXTag™ .

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+ Development

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+ Expression Data

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+ Control Suggestions

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+ Selected References

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## - Genetics

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+ Tg(SOD1\*G93A)1Gur

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## - Disease/Phenotype

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+ 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\(SOD1\)](#)

Standard PCR: [Tg\(SOD1\)](#)

Standard PCR: [Tg\(SOD\)](#)

Standard PCR: [Tg\(SOD\)](#)

Standard PCR: [Tg\(SOD\)](#)

Standard PCR: [Tg\(SOD\)](#)

QPCR: [Sod TgN Copy Number](#)

QPCR: [Sod TgN Copy Number](#)

[Genotyping resources and troubleshooting](#)

## Breeding Considerations

[This strain is an exceptional breeder.](#)

The strain is maintained by breeding hemizygous carriers (preferably males) to B6SJLF1 hybrids. When maintaining a live colony, it has been the experience of The Jackson Laboratory that male mice are aggressive. It is our recommendation that no more than 4 males are housed in a box. Expected coat colors from breeding are "White Bellied Agouti, Black, Albino, Tan w/pink eyes."

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

#### Mating System

F1 x Hemizygote

#### Appearance

multiple coat colors

Related Genotype: segregating for *a*, *A*, *Oca2<sup>o</sup>*, *Tyr<sup>c</sup>* and *Pde6b<sup>rd1</sup>*

#### Citation

When using the SOD1-G93A mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002726 in your Materials and Methods section.

## Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX4 \(Standard\)](#)

 [AX29 \(Maximum\)](#)

## Pricing & Availability



Available Now

Sized to accommodate orders of up to 50 or more. Ask Customer Service for details.

## Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

### LIVE MOUSE

AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Hemizygous for Tg(SOD1*G93A)1Gur	\$318.63
	Male	Hemizygous for Tg(SOD1*G93A)1Gur	\$318.63
4 weeks	Female	Noncarrier	\$78.51

	Male	Noncarrier	\$78.51
	SEX		
5 weeks	Female	Hemizygous for Tg(SOD1*G93A)1Gur	\$318.63
	Male	Hemizygous for Tg(SOD1*G93A)1Gur	\$318.63
5 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
6 weeks	Female	Hemizygous for Tg(SOD1*G93A)1Gur	\$323.78
	Male	Hemizygous for Tg(SOD1*G93A)1Gur	\$323.78
6 weeks	Female	Noncarrier	\$83.66
	Male	Noncarrier	\$83.66
7 weeks	Female	Hemizygous for Tg(SOD1*G93A)1Gur	\$328.93
	Male	Hemizygous for Tg(SOD1*G93A)1Gur	\$328.93
7 weeks	Female	Noncarrier	\$88.81
	Male	Noncarrier	\$88.81
8 weeks	Female	Hemizygous for Tg(SOD1*G93A)1Gur	\$340.04
	Male	Hemizygous for Tg(SOD1*G93A)1Gur	\$334.08
8 weeks	Female	Noncarrier	\$93.96
	Male	Noncarrier	\$93.96
9 weeks	Female	Hemizygous for Tg(SOD1*G93A)1Gur	\$339.23
	Male	Hemizygous for Tg(SOD1*G93A)1Gur	\$345.19
9 weeks	Female	Noncarrier	\$99.11
	Male	Noncarrier	\$99.11
10 weeks	Female	Noncarrier	\$104.26
	Male	Noncarrier	\$104.26
10 weeks	Female	Hemizygous for Tg(SOD1*G93A)1Gur	\$344.38
	Male	Hemizygous for Tg(SOD1*G93A)1Gur	\$350.34

## 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.

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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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### TERMS OF USE

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### ADDITIONAL USE RESTRICTIONS APPLY

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### LICENSING INFORMATION

Phone: 207-288-6470

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

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