



# B6.Cg-Tg(SOD1\*G93A)<sup>dl</sup>1Gur/J

Stock No: 002299 | G93A SOD1

Congenic, Transgenic



CRYORECOVERY

PLACE ORDER

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

## Overview

### Also Known As: G93A SOD1

These C57BL/6J-congenic SOD1-G93A transgenic mice carry a reduced copy number of the variant human superoxide dismutase 1 soluble gene transgene, Tg(SOD1\*G93A)<sup>dl</sup>1Gur. These mice exhibit a delayed onset of phenotype when compared to the original high copy number C57BL/6J-congenic SOD1-G93A transgenic mice (B6.Cg-Tg(SOD1\*G93A)1Gur/J; Stock No. [004435](#)). These

mice are useful for studies of neuromuscular disorders, including Amyotrophic Lateral Sclerosis (ALS).

## Donating Investigator

IMR Colony, The Jackson Laboratory

[READ MORE +](#)

## GENETIC OVERVIEW

Genetic Background

Generation

000664 C57BL/6J

**Tg(SOD1\*G93A)<sup>dl</sup>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:

\$2,854.50 Domestic price Cryo Recovery

[VIEW PRICE LIST](#)

## Details

### Detailed Description

Mice carrying the transgene exhibit paralysis resulting in a reduced life expectancy. They serve as a model for human amyotrophic lateral sclerosis (ALS). The transgene carries a variant of the human Superoxide dismutase-1 gene (glycine to alanine at position 93). Paralysis is due to loss of motor neurons from the spinal cord. The onset of the ALS phenotype is delayed compared to the original high copy number C57BL/6J-congenic SOD1-G93A transgenic mice (B6.Cg-Tg(SOD1\*G93A)1Gur/J; Stock No. [004435](#)) because of a reduction in transgenic copy number (see details below). This reduction most likely occurred during the importation and establishment of the original high copy number mutant transgenic strain. Mice on the B6SJL background (Stock No. [002300](#)) become paralyzed in one or more limbs beginning around six to seven months of age. Life expectancy is normally four to six weeks

beyond onset of symptoms. The transgene was backcrossed to C57BL/6J for five generations. The ALS phenotype on this genetic background has not been characterized; however, the onset of the ALS phenotype does not appear to be accelerated (March 1996). One advantage to working with this strain would be its inbred background.

In 2014, Genetic Quality Assurance/Control program at The Jackson Laboratory Repository assessed the survival of a cohort of hemizygous mice (16 females and 9 males; mixed siblings and non-siblings). This showed all tested animals survived beyond 200 days, ~50% survival at 275-300 days of age, and all tested animals die before one year of age. This confirms that reduced transgene copy number in these C57BL/6J-congenic SOD1-G93A transgenic mice (Stock No. 002299) results in a slower progressing model of ALS compared to the original high copy number C57BL/6J-congenic SOD1-G93A transgenic mice (Stock No. [004435](#); reported to have ~50% survival at 157 days of age).

#### + 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)<sup>dl</sup>1Gur

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#### - Disease/Phenotype

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#### + Disease Terms

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#### + Research Areas By Genotype

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#### + Mammalian Phenotype Terms by Genotype

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#### + References

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#### - Technical Support

C H A T   O  F L I N E

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

QPCR:Sod TgN Copy Number

[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](#)).

[Additional Breeding and Husbandry Support](#)

## Appearance

black

Related Genotype: *a/a*

## Citation

When using the G93A SOD1 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002299 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.

## Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

### Cryorecovery - Domestic Pricing

SERVICE	GENOTYPE	PRICE
Cryo Recovery	Carrier or Non carrier for Tg(SOD1*G93A)	\$2,854.50

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a [Dedicated Supply](#) for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

### Related Products and Services

Frozen Mouse Embryo	<a href="#">B6.Cg-Tg(SOD1*G93A)&lt;dl&gt;1Gur/J Frozen Embryo</a>	\$2595.00
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## 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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Phone: 207-288-6470

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

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## Related Strains

All

By Allele

By Gene

By Collection

All Related Strains



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