Overview

Also Known As: G93A SOD1

These rederived G93A-SOD1 transgenic mice carry a lower copy number than the original transgenic strain and may be useful in studying neuromuscular disorders, including Amyotrophic Lateral Sclerosis (ALS or Lou Gehrig's Disease).

Donating Investigator
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 strain (SOD1*G93A)1Gur, Stock No. 002726) because of a reduction in transgenic copy number. This reduction most likely occurred during the importation and establishment of the original high copy number mutant transgenic strain. Mice 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.
**Genotyping Protocols**
Standard PCR: Tg(SOD1*G93A)dl1Gur

**Breeding Considerations**
This strain is maintained by mating hemizygous carriers (preferably males) to B6SJLF1 hybrids. We have established an 8 month lifetime maximum for this strain that is compatible with The Jackson Laboratory policy for humane husbandry (i.e. paralysis has affected the mouse to the extent that it can not eat, drink, or move freely). Expected coat color from breeding: Black, White Bellied Agouti, Albino, Light Gray and Tan w/ pink eyes

**Appearance**
multiple coat colors
Related Genotype: segregating for a, Oca2^p^, Tyr^r^, and Pde6b^d1^

**Citation**
When using the G93A SOD1 mouse strain in a publication, please cite the originating article(s) and include JAX stock #002300 in your Materials and Methods section.

**Animal Health Reports**
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

<table>
<thead>
<tr>
<th>Cryorecovery - Domestic Pricing</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or Non carrier for Tg(SOD1*G93A)&lt;dl&gt;1Gur</td>
<td>$2,854.50</td>
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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 | B6SJL-Tg(SOD1*G93A)<dl>1Gur/J Frozen Embryo | $2,595.00 |

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.

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Terms of Use

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Email: TechTran@jax.org

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### Related Strains

All