B6SJL-Tg(SOD1*G93A)dl1Gur/J

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

Donating Investigator
Dr. Mark E. Gurney, Tetra Discovery Partners

GENETIC OVERVIEW

Genetic Background

Generation

Tg(SOD1*G93A)dl1Gur

Allele Type
Transgenic (Inserted expressed sequence, Humanized sequence)

RESEARCH APPLICATIONS

Mouse/Human Gene Homologs
Neurobiology Research
Metabolism Research
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 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.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(SOD1*G93A)dl 1Gur

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype
Genotyping Protocols
Standard PCR: Tg(SOD1)
Standard PCR: Tg(SOD)
Genotyping resources and troubleshooting

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 cannot eat, drink, or move freely). Expected coat color from breeding: Black, White Bellied Agouti, Albino, Light Gray and Tan w/ pink eyes

Additional Breeding and Husbandry Support

Appearance
multiple coat colors
Related Genotype: segregating for a, Oca2<sup>d</sup>, Tyr<sup>c</sup>, and Pde6b<sup>rd1</sup>

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
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.

<table>
<thead>
<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<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>
</tr>
</tbody>
</table>
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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains