B6C3Fe a/a-Glrβspa/J

Stock No: 000241 | spastic

Spontaneous Mutation

CRYO RECOVERY

REQUEST CRYORECOVERY

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

Also Known As: B6C3Fe-a/a-Glrβspa/+; spastic

Mice homozygous for the spastic spontaneous mutation (Glrβspa) can usually be recognized at 14 days of age, but some mutant mice may not be reliably distinguished until 5 or 6 weeks of age. They show spastic symptoms in response to handling, but spastic behavior can occur spontaneously. The spasms consist of rapid tremor, stiffness of posture, and difficulty in righting when placed on the back. No anatomical pathology occurs in either muscle or the central nervous system, except that herniated intervertebral discs and cysts of the leptomeninges occur, most severely in the lumbar region, possibly resulting from traumatic injuries sustained during the myoclonic episodes. The spastic symptoms can be markedly alleviated by intraperitoneal injection of aminoxyacetic acid, an inhibitor of γ-aminobutyric acid transaminase (GABA-T), but not by Dilantin or trimethadione. Glycine receptor expression in the CNS of spastic mice is reduced to 20%, or less, of normal.

GENETIC OVERVIEW

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<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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Glrβspa

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Spontaneous</td>
<td>Glrb</td>
<td>glycine receptor, beta subunit</td>
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a

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
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<tr>
<td>Spontaneous</td>
<td>a</td>
<td>nonagouti</td>
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VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research
Cell Biology Research

VIEW ALL RESEARCH APPLICATIONS
Details

Detailed Description

Mice homozygous for the spastic spontaneous mutation (Glrb<sup>69a</sup>) can usually be recognized at 14 days of age, but some mutant mice may not be reliably distinguished until 5 or 6 weeks of age. They show spastic symptoms in response to handling, but spastic behavior can occur spontaneously. The spasms consist of rapid tremor, stiffness of posture, and difficulty in righting when placed on the back. No anatomical pathology occurs in either muscle or the central nervous system, except that herniated intervertebral discs and cysts of the leptomeninges occur, most severely in the lumbar region, possibly resulting from traumatic injuries sustained during the myoclonic episodes. The spastic symptoms can be markedly alleviated by intraperitoneal injection of aminoxyacetic acid, an inhibitor of g-aminobutyric acid transaminase (GABA-T), but not by Dilantin or trimethadione. Glycine receptor expression in the CNS of spastic mice is reduced to 20%, or less, of normal.

Development

Genetics

Glrb<sup>69a</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
High Resolution Melting: $\text{Glrb}^{\text{spa}}$
Genotyping resources and troubleshooting

Appearance
black, tremors
Related Genotype: a/a $\text{Glrb}^{\text{spa}}$/ $\text{Glrb}^{\text{spa}}$
black, unaffected
Related Genotype: a/+ or a/a $\text{Glrb}^{\text{spa}}$/+

Citation
When using the erasable mouse strain in a publication, please cite the originating article(s) and include JAX stock #000241 in your Materials and Methods section.
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.

| SERVICE           | GENOTYPE                                                                 | PRICE  |
|------------------| Adam Nez
e|---------------------------------|--------|
| Cryo Recovery    | Homozygous for a, Heterozygous or Homozygous or Wild-type for $\text{Glrb}^{\text{spa}}$ | $2,595.00 |

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.

Cryo recovery 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.

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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Terms of Use
General Terms and Conditions

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Phone: 207-288-6470
Email: TechTran@jax.org

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## Related Strains

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<td>By Gene</td>
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<td>By Collection</td>
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All Related Strains
Leading the search for
TOMORROW'S CURES