

B6.Cg-Glrb^{spa}/J

Stock No: 000066

 Congenic

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

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induced by handling. 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 CNS except that herniated intervertebral discs and cysts of the leptomeninges occur, most severely in the lumbar region, possibly as a result of traumatic injuries consequent on spasticity and tremor. The spastic symptoms can be markedly alleviated by intraperitoneal injection of aminooxyacetic acid, an inhibitor of g-aminobutyric acid transaminase (GABA-T), but not by Dilantin or trimethadione. There is a decrease to less than 20% of normal in the receptor for glycine, the major inhibitory neurotransmitter in the spinal cord and brainstem.

GENETIC OVERVIEW

Genetic Background Generation

Glrb^{spa}

Alele Type	Gene Symbol	Gene Name
Spontaneous	<i>Glrb</i>	glycine receptor, beta subunit

V I E W G E N E T I C S

RESEARCH APPLICATIONS

Neurobiology Research
Cell Biology Research

V I E W A L L R E S E A R C H A P P L I C A T I O N S

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

Details

Detailed Description

Mice homozygous for the spastic spontaneous mutation (*Glr^{spa}*) can usually be recognized at 14 days of age but sometimes not until 5 or 6 weeks. They show spastic symptoms which sometimes occur spontaneously and can always be induced by handling. 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 CNS except that herniated intervertebral discs and cysts of the leptomeninges occur, most severely in the lumbar region, possibly as a result of traumatic injuries consequent on spasticity and tremor. The spastic symptoms can be markedly alleviated by intraperitoneal injection of aminooxyacetic acid, an inhibitor of g-aminobutyric acid transaminase (GABA-T), but not by Dilantin or trimethadione. There is a decrease to less than 20% of normal in the receptor for glycine, the major inhibitory neurotransmitter in the spinal cord and brainstem.

Development

Genetics

Glr^{spa}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR: [Glrb](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice are bred by homozygote female x heterozygote male matings. The fertility of homozygous males has not been assessed.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.Cg-*Glrb*^{spa}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #000066 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/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for <i>Glrb</i> <spa>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.Cg- <i>Glrb</i> <spa>/J	\$2595.00
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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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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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