

## B6.129-*St8sia2*<sup>tm1Jxm</sup>/J

Stock No: **006902** | ST8Sia-II KO

 Congenic, Targeted Mutation

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

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impaired fear responses.

### Donating Investigator

Jamey D Marth, Burnham Inst at Univ Calif Santa Barbara

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## GENETIC OVERVIEW

Genetic Background

Generation

*St8sia2*<sup>tm1Jxm</sup>

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

*St8sia2*

ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 2

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

## 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

Heterozygous mice are viable and fertile and do not display any gross physical or behavioral abnormalities. Homozygous mice show a polysialic acid (PSA) deficit in regions of neurogenesis. Hippocampal synaptic plasticity is not impaired, but abnormal trafficking of infrapyramidal mossy fibers and the formation of ectopic synapses in the hippocampus are observed coincident with a high exploratory drive and reduced behavioral responses to Pavlovian fear conditioning.

This mutant mouse strain represents a model of polysialyltransferase function in modulating axonal trafficking and mechanisms of anxiety and fear behaviors.

#### Development

#### Selected References

### Genetics

#### *St8sia2<sup>tm1 Jxm</sup>*

### Disease/Phenotype

#### Disease Terms

#### Research Areas By Phenotype

#### Mammalian Phenotype Terms by Genotype

#### References

## Technical Support

### CONTACT TECHNICAL SUPPORT

#### Genotyping Protocols

Standard PCR: [St8sia2](#)

[Genotyping resources and troubleshooting](#)

#### Breeding Considerations

When maintained as a live colony, heterozygous crosses may be used.

[Additional Breeding and Husbandry Support](#)

#### Citation

When using the ST8Sia-II KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006902 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
<a href="#">Cryo Recovery</a>	Heterozygous or Wild-type for <a href="#">St8sia2</a>	\$2,854.50

#### RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	B6.129-St8sia2	\$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.

## THE JACKSON LABORATORY'S GENOTYPE PROMISE

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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### Terms Of Use

#### TERMS OF USE

[General Terms and Conditions](#)

Q U E S T I O N S   A B O U T   T E R M S   O F   U S E

#### ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

#### LICENSING INFORMATION

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



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# TOMORROW'S CURES



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