

B6.129-Nrxn1^{tm3Sud} /J

Stock No: **021777**

 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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region provides a useful marker.

Donating Investigator

Dr. Thomas C. Sudhof, Stanford University School of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

Nrxn1^{tm3Sud}

Alele Type

Targeted (Conditional ready (e.g. floxed), No functional change)

Gene Symbol

Nrxn1

Gene Name

neurexin I

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Research Tools

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

Neurexins act as cell adhesion molecules and receptors involved with synaptic function. In this conditional targeted mutation strain, the last coding exon (exon 24) of the *Nrxn1* (neurexin 1) gene is flanked by loxP sites. Excision of the floxed segment through Cre recombinase expression effectively truncates the gene product. A 2xHA (hemagglutinin) tag outside of the floxed region provides a useful marker. Immunoblotting, immunohistochemistry, and immunocytochemistry confirm that the HA tag is functional.

Development

Control Suggestions

Genetics

Nrxn1^{tm3Sud}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR: [Nr_{xn1}](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Homozygous and heterozygous mice are viable and fertile.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.129-Nr_{xn1}^{tm3Sud}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #021777 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 Nr _{xn1} <tm3Sud> | \$2,854.50 |

RELATED PRODUCTS AND SERVICES

| | | |
|-------------------------------------|---|-----------|
| Frozen Mouse Embryo | B6.129-Nr _{xn1} <tm3Sud>/J Frozen Embryo | \$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.

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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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

Related Strains

All

By Allele

By Gene

By Collection



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