

B6;129-Txnip^{tm1.1Rlee} /J

Stock No: **018313**

 Targeted Mutation

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

PLACE ORDER

[Email](#) [Download PDF](#) [Help](#)

Donating Investigator

Richard T Lee, Harvard Medical School

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Txnip^{tm1.1Rlee}

Allele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Txnip

thioredoxin interacting protein

VIEW GENETICS

RESEARCH APPLICATIONS

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

The *Txnip* (thioredoxin interacting protein) gene produces a redox-sensitive signaling protein that participates in a variety of biological functions that are still being characterized.

This strain was created by breeding animals carrying a floxed exon 1 allele (see Stock No. [016847](#)) with Sox2-cre mice to excise the targeted exon.

A similar knockout allele in which the same floxed exon was removed via crosses with a Prm-cre strain (*Txnip*^{tm1.1Rlee}) was published in Circulation Research, 2007 (PMID 17916779). Fasting blood glucose levels in their homozygous mice indicated hypoglycemia without hyperinsulinemia. When placed on a high-fat diet for 4 weeks, their homozygous mice showed significant increases in adipogenesis and insulin sensitivity as compared to wildtype controls. Their homozygotes were viable and fertile.

Although generated in a similar fashion, the offered *Txnip*^{tm1.1Rlee} allele has not been fully characterized.

Development

Control Suggestions

Selected References

Genetics

Txnip^{tm1.1Rlee}

Disease/Phenotype

Disease Terms

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

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

Genotyping Protocols

Standard PCR: [Txnip](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Heterozygotes and homozygotes are viable and fertile.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6;129-*Txnip*^{tm1.1Rlee}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #018313 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 for Txnip<tm1.1Rlee>	\$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	B6;129-Txnip<tm1.1Rlee>/J Frozen Embryo	\$2595.00

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.

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

Related Strains

All

By Allele

By Gene

By Collection



DO YOU NEED BALB/c MICE?

Rely on JAX to provide the models you need, when you need them.

LEARN MORE



CONTACT



DONATE



SUBSCRIBE

JAX HOME CAREERS LEGAL INFORMATION

RESEARCH CENTERS MOUSE GENOME INFORMATICS


MOUSE PHENOME DATABASE

Leading the search for

TOMORROW'S CURES



©2021 THE JACKSON LABORATORY

Choose other country or region 

^ E E E D B

Did you find what you were looking for?

Yes No