

**B6.129S2-Noct<sup>tm1Bjc</sup> /J**

Stock No: **008841**

 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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clockwork, and post-transcriptional regulation of genes necessary for nutrient uptake, metabolism, and storage.

### Donating Investigator

Joseph C Besharse, Medical College of Wisconsin

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## GENETIC OVERVIEW

Genetic Background

Generation

*Noct<sup>tm1Bjc</sup>*

**Alele Type**

Targeted (Null/Knockout)

**Gene Symbol**

*Noct*

**Gene Name**

nocturnin

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Endocrine Deficiency Research

Internal/Organ Research

Neurobiology Research

Cell Biology Research

Metabolism Research

Cardiovascular Research

Diabetes and Obesity 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

Mice homozygous for this Nocturnin (*Ccm4l* or *Noc*) targeted mutation are viable and fertile, with no detectable *Noc* protein made from the targeted gene. Homozygotes are resistant to diet-induced obesity and remain lean on high-fat diets, with lower body weight and reduced visceral fat. Unlike lean lipodystrophic mouse models, *Noc*-deficient mice do not have fatty livers (hepatic steatosis) and do not exhibit increased activity or reduced food intake. In addition to changes in glucose tolerance and insulin sensitivity, homozygous mice may also have deficits in lipid metabolism or lipid uptake. Nocturnin-deficient mice may be useful in studying resistance to diet-induced obesity, physiologic rhythms downstream of the circadian clockwork, and post-transcriptional regulation of genes necessary for nutrient uptake, metabolism, and storage.

#### + Development

#### + Control Suggestions

#### + Selected References

### – Genetics

#### + *Noct*<sup>tm1Bjc</sup>

### – 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

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the B6.129S2-*Noct<sup>tm1Bjc</sup>*/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008841 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

## RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6.129S2-Noct&lt;tm1Bjc&gt;/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.

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[General Terms and Conditions](#)

QUESTIONS ABOUT TERMS OF USE

## LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)[Related Strains](#)

All

By Allele

By Gene

By Collection



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# TOMORROW'S CURES



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