

B6.129P2-*Rbp3*^{tm1Gil}/J

Stock No: **023080**

 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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Donating Investigator

John Nickerson, Emory University

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GENETIC OVERVIEW

Genetic Background

Generation

Rbp3^{tm1Gil}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Rbp3

Gene Name

retinol binding protein 3, interstitial

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

Sensorineural 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

The Interstitial retinal binding protein 3 is a large glycoprotein that binds retinoids and fatty acids, and transports retinoids between the retinal pigment epithelium and the photoreceptors, mediating cone pigment regeneration. These mice carry a targeted mutation for the *Rbp3* gene in which the promoter and most of exon 1 has been replaced by a NEO selection cassette. Mice that are homozygous for the targeted mutation are viable and fertile. A truncated transcript product is detected by Northern blot analysis of total retinal RNA from homozygous animals, however no protein gene product is detected by immunocytochemical or Western blot analysis. Homozygotes exhibit myopia, and progressive retinal degeneration is detected at postnatal day 11. The onset of ocular enlargement occurs between postnatal day 7 and 10. Retinal outer nuclear layer is approximately 40% and electroretinographic (ERG) response is reduced by approximately 40% when compared to wildtype controls.

Development

Control Suggestions

Selected References

Genetics

Rbp3^{tm1Gil}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

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:[Rbp3-Alternate 1](#)
[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.129P2-*Rbp3*^{tm1Gil}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #023080 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



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 <i>Rbp3</i> ^{tm1Gil}	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6.129P2-Rbp3<tm1Gil>/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](#)

QUESTIONS ABOUT TERMS OF USE

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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TOMORROW'S CURES



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