

B6.129-Bpnt1^{tm1Yrk} /J

Stock No: **012920**

 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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may be useful in studies of liver disease.

Donating Investigator

John York, Duke University Medical Center

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GENETIC OVERVIEW

Genetic Background

Generation

Bpnt1^{tm1Yrk}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Bpnt1

Gene Name

bisphosphate 3'-nucleotidase 1

VIEW GENETICS

RESEARCH APPLICATIONS

Internal/Organ 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

Both male and female homozygous *Bpnt1* (bisphosphate 3'-nucleotidase 1) targeted mutation mice develop lethal full body edema with 45% penetrance. The onset of edema is typically between 40 and 60 days. Following the development of edema, mice have been observed to live up to a week. Mice develop severe liver pathologies resulting in poor viability during adolescence. None of the examined phenotypes differ between this C57BL/6 and a mixed C57BL/6-129 (Stock No. 012919) genetic background strain. Western blots of liver, kidney, and brain using polyclonal antibodies raised against full-length protein indicate that no protein is expressed in homozygous animals. There is no detectable mRNA in liver. This strain may be useful in studies of liver disease.

Development

Selected References

Genetics

Bpnt1^{tm1Yrk}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintained as a live colony, heterozygotes may be bred. Many homozygotes die during adolescence due to severe liver pathologies.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.129-Bpnt1^{tm1Yrk}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #012920 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 Bpnt1<tm1Yrk>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129-Bpnt1<tm1Yrk>/J	\$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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Q U E S T I O N S A B O U T T E R M S O F U S E

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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Yes No