

## B6.129(Cg)-*Phox2b*<sup>tm1Rth</sup>/J

Stock No: 025436

 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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exon knocks out expression of the mouse form of protein, but allows the mutant human form and EGFP to be expressed.

### Donating Investigator

David H. Rowitch, University of California, San Francisco

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## GENETIC OVERVIEW

Genetic Background

Generation

### *Phox2b*<sup>tm1Rth</sup>

**Alele Type**

Targeted (Conditional ready  
(e.g. floxed), Reporter,  
Humanized sequence)

**Gene Symbol**

*Phox2b*

**Gene Name**

paired-like homeobox 2b

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

Developmental Biology 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

*Phox2b* (paired-like homeobox 2b) functions early in development, promoting the formation and differentiation of nerve cells.

In this targeted mutant strain, exon 3 of the mouse *Phox2b* gene is flanked by loxP sites and the human *PHOX2B* exon 3, modified with an 8 bp deletion and EGFP marker, was placed downstream. Cre-mediated excision of the floxed exon knocks out expression of the mouse form of protein, but allows the mutant human form and EGFP to be expressed. Homozygous floxed mice are viable and fertile, and show no observable phenotype. EGFP reporter is expressed in specific hindbrain nuclei and enteric neurons, faithful to anticipated *Phox2b* patterns.

Homozygotes developed after crossing these floxed mice with a germline cre expressor die embryonically (starting at about embryonic day 11.5) or at birth.

Crosses with brain-specific cre animals produce progeny that have problems feeding and pups fail to gain weight. Mice developed through crosses with a peripheral nervous system-specific cre animals show enteric nervous system failure from birth and fail to gain appropriate weight.

#### Development

#### Expression Data

#### Control Suggestions

### Genetics

#### *Phox2b*<sup>tm1Rth</sup>

### Disease/Phenotype

+ Disease Terms

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+ Research Areas By Phenotype

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+ Mammalian Phenotype Terms by Genotype

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+ References

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## - 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:[Phox2b](#)

[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(Cg)-*Phox2b*<sup>tm1Rth</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #025436 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
<a href="#">Cryo Recovery</a>	Heterozygous or wildtype for Phox2b<tm1Rth>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	B6.129(Cg)-Phox2b<tm1Rth>/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.

## Terms Of Use

### TERMS OF USE

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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](mailto:TechTran@jax.org)

## Related Strains

All

By Allele

By Gene

By Collection



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