

**FVB.129P2(Cg)-*Hlx*<sup>tm1Rph</sup>/J**Stock No: **008315** **Congenetic, Targeted Mutation**

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CD4 T cells from heterozygotes on the FVB/NJ background exhibit increased responsiveness to IL-4, resulting in differentiation of more Th2 cells. This mutant mouse strain may be useful in studies of liver and gastrointestinal development and T helper 2 cell differentiation.

### Donating Investigator

Michael Bates, Cincinnati Children's Hospital Med Ctr

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## GENETIC OVERVIEW

**Genetic Background****Generation***Hlx<sup>tm1Rph</sup>***Alele Type****Gene Symbol****Gene Name**

Targeted (Null/Knockout)

*Hlx*

H2.0-like homeobox

[VIEW GENETICS](#)

## RESEARCH APPLICATIONS

Hematological Research

Internal/Organ Research

Developmental Biology Research

Immunology, Inflammation and Autoimmunity 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

Homozygous null mice have an embryonic lethal phenotype. Homozygous mice on the C57BL/6 and B6;129 mixed background fail to develop past embryonic days 15.5 due to impaired fetal hematopoiesis (anemia, hypoplastic and abnormal development of the liver, hypoplastic gut). Homozygous mice on the FVB/N background survive through embryonic day 18.5 and dead homozygote newborn pups are observed. Late gestation homozygous embryos on the FVB/N background are smaller than wild-type littermates, pale, hydropic (subcutaneous fluid ballooning skin), and have impaired neural crest cell and enteric neuron migration from the stomach to intestine. Mice that are heterozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. Naive CD4 T cells from heterozygotes exhibit increased responsiveness to IL-4, resulting in differentiation of more Th2 cells. This mutant mouse strain may be useful in studies of liver and gastrointestinal development and T helper 2 cell differentiation.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Hlx<sup>tm1Rph</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:[Hlx](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, these mice can be bred as heterozygotes. Homozygotes have an embryonic lethal phenotype.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the FVB.129P2(Cg)-*Hlx*<sup>tm1Rph</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008315 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](#)*

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## – Pricing & Availability



Cryo  
Recovery

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Pricing effective for USA, Canada and Mexico shipping destinations

**CRYORECOVERY - DOMESTIC PRICING**

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous or Wild-type for Hlx<tm1Rph>	\$2,854.50

RELATED PRODUCTS AND SERVICES		
<a href="#">Frozen Mouse Embryo</a>	FVB.129P2(Cg)-Hlx<tm1Rph>/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.

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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

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### LICENSING INFORMATION

Phone: 207-288-6470

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

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