Mice homozygous for this Hlx targeted mutation have an embryonic or perinatal lethal phenotype, failing to develop past ED15.5 or dying at birth. Homozygotes exhibit defective fetal hematopoiesis with abnormal liver and gut development. Naive 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.
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.

Genetics

Hlxl^{m1Rph}

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Standard PCR: Hlxl^{m1Rph}
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 EVB129B2(Ce)Hlxl^{m1Rph}/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
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.

<table>
<thead>
<tr>
<th>Pricing</th>
<th>Domestic</th>
<th>International</th>
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<tr>
<td>Cryorecovery - Domestic Pricing</td>
<td>GENOTYPE</td>
<td>PRICE</td>
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<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or Wild-type for H1x&lt;tm1Rph&gt;</td>
<td>$2,595.00</td>
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We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. **Please check genotypes which will be recovered.** While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. **Animals are typically ready to ship in 11-14 weeks.** If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary. Cryorecovery to establish a **Dedicated Supply** for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

**Related Products and Services**

| Frozen Mouse Embryo | $2,595.00 per straw or vial |

**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.

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