Overview

Homozygous null mice have a perinatal lethal phenotype and do not survive long after birth due to respiratory failure. Homozygous 17.5 to 18.5 embryonic day old embryos exhibit severe shortening in all outgrowing axes of the body and limbs with loss of distal structures (absence of tail, limb digits and genital tubercle), and truncated facial features. This mutant mouse strain may be useful in studies of distal outgrowth of internal organs and organization of morphogenesis in development.

Donating Investigator

Andrew P McMahon, University of Southern California
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wnt5a^Im1Amc</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Wnt5a</td>
<td>wingless-type MMTV integration site family, member 5A</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS
Developmental Biology Research

BASE PRICE
Starting at:

$2,854.50 Domestic price Cryo Recovery

Details

Detailed Description

Homozygous null mice have a perinatal lethal phenotype and do not survive long after birth due to respiratory failure. Mice that are heterozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. No gene product (protein) is detected by immunohistochemical analysis in homozygotes. Homozygous 17.5 to 18.5 embryonic day old embryos exhibit severe shortening in all outgrowing axes of the body and limbs with loss of distal structures (absence of tail, limb digits and genital tubercle), and truncated facial features. Newborn homozygous mice succumb to asphyxia due to abnormal lung development and display shortened trachea, overexpansion of the distal airways and impaired capillary/alveolar coupling. This mutant mouse strain may be useful in studies of distal outgrowth of internal organs and organization of morphogenesis in development.

Development

Control Suggestions
Genotyping Protocols
Standard PCR: Wnt5a<sup>tm1Amc</sup>
High Resolution Melting: Wnt5a<sup>tm1Amc</sup>
Genotyping resources and troubleshooting

Breeding Considerations
The strain is maintained as a heterozygote. Homozygotes are not viable.

Additional Breeding and Husbandry Support

Citation
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.
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.

**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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**Terms Of Use**

Terms of Use

[General Terms and Conditions](#)

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**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

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains