FVB.A-Irf6^{dm1}/BeiJ

Stock No: 012655

Chemically Induced Mutation, Congenic

PLACE ORDER

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Overview

This mutation of interferon regulatory factor 6 (Irf6) gene displays abnormal adhesion between the tongue and palate and may be useful studies of cleft palate and Van der Woude Syndrome.

Donating Investigator

David Beier, Harvard
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Irf6&lt;sup&gt;clft1&lt;/sup&gt;</strong></td>
<td></td>
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<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
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<tbody>
<tr>
<td>Chemically induced (ENU)</td>
<td>Irf6</td>
<td>interferon regulatory factor 6</td>
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</tbody>
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RESEARCH APPLICATIONS
Developmental Biology Research

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

Details

**Detailed Description**

Mice that are homozygous for this hypomorphic allele are characterized by an abnormal adhesion between the tongue and palate. Approximately 63% of E18.5 mutants exhibit a partial fusion of the anterior palate, the remaining mutants exhibit a complete cleft of the secondary palate. Oral adhesions between the palate and tongue are first observed by E12.5. In addition, a small number of mutants exhibit syndactyly, short forelimbs, curly tail, and hind limbs that appear fused to the body. This mutant mouse strain may be useful in studies of cleft palate and Van der Woude Syndrome.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

**Development**

**Control Suggestions**

**Selected References**
Genotyping Protocols
Pyrosequencing: Irf6^{cif1}
Genotyping resources and troubleshooting

Breeding Considerations
While maintaining a live colony, these mice are bred as heterozygotes. Mice homozygous for the mutation are not viable.

Additional Breeding and Husbandry Support

Citation
When using the I62-A-Irf6^{cif1} (B6;J) mouse strain in a publication, please cite the originating article(s) and include JAX stock #012655 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.
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.

<table>
<thead>
<tr>
<th>Related Products and Services</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</td>
</tr>
</tbody>
</table>

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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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains