B6.129S6-Cftr^tm1Kth/J

Stock No: 002515 | F

Congenic, Targeted Mutation

CRYO RECOVERY

PLACE ORDER

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

Overview

Also Known As: F

These Cftr knock-out mice exhibit neonatal lethality with abnormal bowel development. They may be useful in applications related to the study of cystic fibrosis.

Donating Investigator

Dr. Kirk R. Thomas, Univ of Utah
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cftr&lt;sup&gt;tm1Kth&lt;/sup&gt;</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
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<tbody>
<tr>
<td>Targeted (Hypomorph)</td>
<td>Cftr</td>
<td>cystic fibrosis transmembrane conductance regulator</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Metabolism Research
Mouse/Human Gene Homologs

BASE PRICE
Starting at:

$2,595.00 Domestic price Cryo Recovery

VIEW PRICING

Details

Detailed Description

The Cftr<sup>tm1Kth</sup> targeted mutation corresponds to the delta 508 mutation in humans. Homozygous mutant mice show an increased mortality within the first month after birth, with ~60% mortality by post-weaning. Those that survive are fertile, but females are poor breeders. Mutant mice are also reduced in size compared to normal wildtype mice. Those that do not survive to adulthood show bowel obstructions, bowel strictures and peritonitis. Lungs, pancreas, gall bladder, male reproductive tract, lacrimal gland, and submandibular glands from homozygous mice appear normal regardless of the survival of the animal. Homozygous mice also show a tissue-specific loss of CFTR transcripts in the intestine.

Development

Control Suggestions

Selected References
Genotyping Protocols
Standard PCR: Cft
Genotyping resources and troubleshooting

Breeding Considerations
This strain is currently being maintained by mating heterozygous siblings; this is the most effective breeding strategy. Homozygous males will breed while homozygous females are very poor breeders. Expected coat color from breeding: Black
Additional Breeding and Husbandry Support

Citation
When using this Fmr mice strain in a publication, please cite the originating article(s) and include JAX stock #002515 in your Materials and Methods section.

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.

Domestic
International
Pricing effective for USA, Canada and Mexico shipping destinations
Cryorecovery - Domestic Pricing

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or Wild-type for Cfr&lt;tm1Kth&gt;</td>
<td>$2,595.00</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Product</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.

### Terms Of Use

**Terms of Use**

**General Terms and Conditions**

[QUESTIONS ABOUT TERMS OF USE]

**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*