STOCK Tg(tetO-Fgfr2b/Igh)1.3Jaw/J

Stock No: 025672

Transgenic

CRYO RECOVERY

PLACE ORDER

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

Overview

These transgenic mice carry the FGFR-HFc inhibitor of FGF signaling, regulated by a tetracycline operator (tetO)/minimal
cytomegalovirus (CMV) promoter. When mated to a mutant strain expressing tetracycline-controlled transactivator protein (tTA), expression of the dominant-negative FGFR-HFc protein may be regulated with the tetracycline analog doxycycline (dox) in the double mutant offspring. These mice may be useful for studying FGF signaling in development of the embryo and in the adult mouse.

Donating Investigator
Dr. Jeffrey Whitsett, Children's Hospital Medical Center

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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**Tg(tetO-Fgfr2b/Igh)1.3Jaw**

**Allele Type**
Transgenic (Inducible, Inserted expressed sequence)

**RESEARCH APPLICATIONS**

Research Tools

**BASE PRICE**

Starting at:

$2,595.00 Domestic price Cryo Recovery

**Detailed Description**

The Fgfr2b gene encodes for a tyrosine protein kinase, fibroblast growth factor receptor, that is required for embryonic patterning, lung development, osteoblast differentiation, and skin development. The soluble chimeric dominant-negative FGFR-HFc construct consists of the extracellular domain of the mouse Fgfr2b, fibroblast growth factor receptor 2, gene and the heavy chain hinge and Fc domain of the mouse immunoglobulin (Igh, immunoglobulin heavy chain complex).

Expression of the FGFR-HFc construct is regulated by a tetracycline operator (tetO)/minimal cytomegalovirus (CMV) promoter, in this transgenic strain. When mated to a mutant strain expressing tetracycline-controlled transactivator protein (tTA), expression of the mutant Fgfr2 may be regulated with tetracycline or its analog doxycycline (dox) in the double mutant offspring.
Mice hemizygous for the transgene are viable and fertile.
The Donating Investigator has not attempted to make the strain homozygous.

Genotyping Protocols
MELT: Generic rtTA-Alternate 1
MELT: Generic tTA
Standard PCR: Tg(tetO-Fgfr2b/lig)/j1.3Jaw
Probe: Generic rtTA-Alternate 1
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, hemizygous mice may be bred together, to wildtype siblings, or to FVB/NJ inbred mice (Stock No. 001800). The Donating Investigator has not attempted to make the strain homozygous.

Additional Breeding and Husbandry Support

Citation
When using the B6GK Tg(tetO-Fgfr2b/lig)1.3Jaw/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #025572 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.

### Domestic Pricing

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or non carrier for Tg(tetO-Fgfr2b/lgh)1.3Jaw</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.

Cryo recovery 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>
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<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</td>
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</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.

The Jackson Laboratory’s Genotype Promise

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

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Phone: 207-288-6470
Email: TechTran@jax.org

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