**STOCK F8 Im1Kaz Tg(Alb-F8*R593C)T4Mcal/J**

Stock No: 017706

- Transgenic

**CRYO RECOVERY**

*PLACE ORDER*

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

These mice contain a huFVIII-R593C transgene, designed with the murine albumin (Alb) promoter driving expression of an altered human coagulation factor VIII (F8) cDNA harboring a mutation that is frequently observed in patients with mild hemophilia A. These mice also carry a knock-out of the F8 gene and are deficient for endogenous F8 protein.

**Donating Investigator**

Michele Calos, Stanford University School of Medicine

**Genetic Background** | **Generation**
--- | ---
**F8Im1Kaz**

<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>F8</td>
<td>coagulation factor VIII</td>
</tr>
</tbody>
</table>

**Tg(Alb-F8*R593C)T4Mcal**

<table>
<thead>
<tr>
<th>Allele Type</th>
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</thead>
<tbody>
<tr>
<td>Transgenic (Inserted expressed sequence, Humanized sequence)</td>
</tr>
</tbody>
</table>

**VIEW GENETICS**

**Hematological Research**

**VIEW ALL RESEARCH APPLICATIONS**
Details

Detailed Description

The huFVIII-R593C transgene was designed with the murine albumin (Alb) promoter driving expression of a mutated human coagulation factor VIII (F8) cDNA. Mice carrying this transgene were bred to mice deficient in endogenous F8. F8 is a coagulation factor, and mutations of this gene have been linked to hemophilia A. As such, the donating investigator reports that these mice will die due to blood loss from a tail clip (see additional note below). These double mutant mice are tolerant of human F8 (hF8) injection, and have no F8 activity. They produce very little inhibitory antibodies and lack F8 responsive T cells or B cells after treatment with human F8. When treated with a hF8 expression plasmid driven by a liver specific human 1 anti trypsin promoter and an attB phiC31 integrate site, in conjunction with phiC31 integrase treatment, this hF8 integrates into the host genome at specific "pseudo-attP sites" and results in long-term gene therapy. This strain may be useful for studying hF8 gene therapy treatments for Hemophilia A patients.

Additional note on tail clipping: The donating investigator reports that these mice will die due to blood loss from a tail clip. The donating investigator suggests no tail clipping be performed on mice younger than 4 weeks of age, and tail clipping with cauterization may be used for mice older than 4 weeks of age.

Development

Expression Data

Control Suggestions

Selected References

Genetics

F8^imXaz

Tg(Alb-F8*R593C)T4Mcal

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype
Genotyping Protocols
Separated PCR: Tg(Alb-F8*)T4Mcal
Standard PCR: F8<tm1Kaz>
Genotyping resources and troubleshooting

Breeding Considerations
The F8<tm1Kaz> mutation is on the X chromosome. When maintaining a live colony, females homozygous for the targeted mutation and hemizygous for the transgene may be bred to males hemizygous for the targeted mutation and wildtype (noncarrier) for the transgene. Alternatively, females homozygous for the targeted mutation and wildtype (noncarrier) for the transgene may be bred to males hemizygous for the targeted mutation and hemizygous for the transgene. The donating investigator reports that these mice will die due to blood loss from a tail clip. The donating investigator suggests no tail clipping be performed on mice younger than 4 weeks of age, and tail clipping with cauterization may be used for mice older than 4 weeks of age.

Additional Breeding and Husbandry Support

Mating System
See “Breeding Considerations”

Citation
When using the STOCK 56<tm1Kaz> Tg(Alb-F8*R593C)T4Mcal/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #017706 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

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

| Domestic | International |

| Cryorecovery - Domestic Not-For-Profit & Academic Pricing |

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous for Tg(Alb-F8*R593C)T4Mcal, Heterozygous female and Wildtype males for F8&lt;tm1Kaz&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

| 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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### Terms Of Use

**Terms of Use**

[General Terms and Conditions](#)

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Use of MICE only available to non-profit entities.

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Phone: 207-288-6470

Email: TechTran@jax.org

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains
ELLSWORTH FACILITY OFFICIALLY OPEN AND OPERATIONAL
Shipments have begun at our new facility, allowing increased access to JAX mouse models.

Leading the search for
TOMORROW'S CURES

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