B6;129S-F8tm1Kaz/J

Stock No: 004424

Targeted Mutation

AVAILABLE NOW

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.
These knock-out mice are deficient of endogenous Factor VIII making them useful for hemophilia A studies.

Donating Investigator
Haig H. Kazazian, Jr., University of Pennsylvania

### GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>F8Im1Kaz</td>
<td>F8</td>
</tr>
</tbody>
</table>

(2019-06-27 00:00:00)

<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>

### RESEARCH APPLICATIONS
Hematological Research

[VIEW GENETICS]

[VIEW ALL RESEARCH APPLICATIONS]
Details

Detailed Description

Mice that are homozygous for the targeted, X chromosome-linked mutant allele are viable and fertile. Homozygous females and carrier males have less than 1% of normal factor VIII activity and exhibit prolonged clotting times. Care should be used when obtaining tail clippings for the purpose of genotyping. Clipped tails of affected mice must be cauterized immediately or the mouse will succumb to excessive blood loss within several hours. Only mice that have reached the age of 4 weeks or older should have their tails clipped. Published reports indicate that spontaneous bleeding into joints or soft tissues, and that no bleeding difficulties are apparent during birth. These mice recapitulate key features of hemophilia A and provide an excellent model for use in exploring gene therapy strategies.

NOTE: It has been the experience of The Jackson Laboratory, in contrast to the primary publication, and possibly due to genetic background differences as a result of continuous inbreeding, animals homozygous or hemizygous for the F8$^{tm1Kaz}$ allele do exhibit bleeding into joints and soft tissues.

Development

Control Suggestions

Selected References

Genetics

F8$^{tm1Kaz}$

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Probe: F8
Probe
Standard PCR: F8
MELT: F8
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
This strain originated on a B6:129S4 background. It is maintained by crossing homozygous females x hemizygous males on the same background. Expected coat color: Agouti and black. Homozygous females and carrier males have less than 1% of normal factor VIII activity and exhibit prolonged clotting times. Care should be exercise when obtaining tail clippings for genotyping purposes. Clipped tails of affected mice must be cauterized immediately, or the mouse will succumb to excessive blood loss within several hours. Preparing genomic DNA from ear punches is recommended.

NOTE: It has been the experience of The Jackson Laboratory, in contrast to the primary publication and possibly due to genetic background differences as a result of continuous inbreeding, that animals homozygous or hemizygous for the F8
allele do exhibit bleeding into joints and soft tissues.

Additional Breeding and Husbandry Support
Mating System
Homozygote x Hemizygote

Citation

Animal Health Reports
Facility Barrier Level Descriptions

Pricing & Availability

Live mice available in varying quantities. Ask Customer Service for details.

Available Now

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

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
</table>
| 4 weeks | Female | Homozygous for F8
 | $270.00 |
| 4 weeks | Male | Hemizygous for F8
 | $270.00 |
| 5 weeks | Female | Homozygous for F8
 | $270.00 |
| 5 weeks | Male | Hemizygous for F8
 | $270.00 |
| 6 weeks | Female | Homozygous for F8
 | $270.00 |
JAX® Mice, Products & Services

<table>
<thead>
<tr>
<th>Weeks</th>
<th>SEX</th>
<th>Strain Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>6 weeks</td>
<td></td>
<td></td>
<td>$270.00</td>
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<tr>
<td>7 weeks</td>
<td>Female</td>
<td>Heterozygous for F8</td>
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<tr>
<td>7 weeks</td>
<td>Male</td>
<td>Heterozygous for F8&lt;sup&gt;tm1Kaz&lt;/sup&gt;</td>
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<tr>
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<td>Female</td>
<td>Homozygous for F8&lt;sup&gt;tm1Kaz&lt;/sup&gt;</td>
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</tr>
</tbody>
</table>

Related Products and Services

Frozen Mouse Embryo $2,595.00 per straw or vial

Payment Terms and Conditions
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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

**STOCK F8tm1.1Rmnt/J**
Stock No: 026199
Related By: F8

**STOCK F8tm1Kaz Tg(Alb-F8*R593C)T4Mcal/J**
Stock No: 017706
Related By: F8, F8tm1Kaz
Leading the search for
TOMORROW'S CURES