Overview

These mice carry an ENU-induced mutation characterized by hepatomegaly, splenomegaly and progressive anemia.

Donating Investigator

Dr. Xavier Montagutelli, Institut Pasteur

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemically induced (ENU)</td>
<td></td>
</tr>
</tbody>
</table>

**Fech**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemically induced (ENU)</td>
<td><em>Fech</em></td>
<td>ferrochelatase</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

- Internal/Organ Research
- Research Tools
- Hematological Research
- Cancer Research
- Mouse/Human Gene Homologs
- Dermatology Research
Details

Detailed Description

Homozygous mutants are recognizable by the intense yellow color of their sera, gross bilirubinemia, and, especially in albino mice, jaundice. Photosensitivity is evidenced by the appearance of inflammatory skin lesions, often becoming ulcerous, under standard mouse room conditions (fluorescent light). Mutants do not differ from their normal littermates in body size or weight, nor are they retarded in growth. They exhibit hepatomegaly and splenomegaly, leading to enlarged abdomens after several months of age. Although mutants are not anemic at one month old, normocytic anemia develops with age.

Control Suggestions

Selected References

Genetics

Fech^{m1Pas}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References
RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo  
C.Cg-Fech<Pas>/J Frozen Embryos  
$2595.00

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Restriction Enzyme Digest: Fech
Pyrosequencing: Fech
End Point Analysis: Fech EP Alternate1
Sanger sequencing: Fech-SEQ
Genotyping resources and troubleshooting

Breeding Considerations

This strain is maintained as homozygous sibling matings. Expected coat color from breeding: albino

Additional Breeding and Husbandry Support

Appearance
albino
Related Genotype: A/A Tyrp1<sup>b</sup> / Tyrp1<sup>b</sup>  Tyr<sup>c</sup> / Tyr<sup>c</sup>

Citation
When using the ferrochelatase deficiency mouse strain in a publication, please cite the originating article(s) and include JAX stock #002662 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

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.

Cryo Recovery

<table>
<thead>
<tr>
<th>CRYORECOVERY - DOMESTIC PRICING</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or wildtype for Fech&lt;1Pas&gt;</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>

Pricing effective for USA, Canada and Mexico shipping destinations

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo  
C.Cg-Fech<1Pas>/J Frozen Embryos  
$2595.00
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General Terms and Conditions

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

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