C3FeLe.Cg-a/a Hm Kitl St Krt71 Ca/J

Stock No: 000291

Congenic

CRYO RECOVERY

PLACE ORDER

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

Overview
The multiple steel mutations (Kitl^st) behave in a semidominant fashion and cause deficiencies in pigment cells, germ cells, and blood cells paralleling those caused by the Kit locus mutations (dominant spotting alleles). Most of the alleles at steel locus cause severe anemia in utero and death by 15 to 16 days of gestation in homozygous mutant mice. However, compounds of two steel mutants (e.g. Kitl^st들 / Kitl^st들) are viable, black-eyed white, are usually sterile in one or both sexes, and have severe macrocytic anemia. Heterozygous steel mice have a diluted coat color with a small amount of white spotting, are viable and fertile, and may have a slight macrocytic anemia. Primordial germ cells are absent in the nonviable steel homozygotes and severely reduced in steel heterozygotes. Mast cells are virtually absent in skin and other tissues of steel mutant mice. Tumors tend to develop in germ-cell-deficient ovaries with adva...

### GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td><strong>Hm</strong></td>
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<tr>
<td>Allele Type</td>
<td>Gene Symbol</td>
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<tr>
<td>Spontaneous (Not Applicable)</td>
<td>Hm</td>
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<td><strong>a</strong></td>
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<td>Allele Type</td>
<td>Gene Symbol</td>
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<td>Spontaneous</td>
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<td><strong>Krt71^Ca-J</strong></td>
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<td>Allele Type</td>
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<tr>
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<td>Krt71</td>
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<td><strong>Kitl^st</strong></td>
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<tr>
<td>Allele Type</td>
<td>Gene Symbol</td>
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<tr>
<td>Spontaneous</td>
<td>Kitl</td>
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</tbody>
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### RESEARCH APPLICATIONS

- Developmental Biology Research
- Cancer Research
- Dermatology Research
- Endocrine Deficiency Research
- Reproductive Biology Research
- Research Tools
- Immunology, Inflammation and Autoimmunity Research
- Neurobiology Research
The multiple steel mutations (Kitl<sup>Sl</sup>) behave in a semidominant fashion and cause deficiencies in pigment cells, germ cells, and blood cells paralleling those caused by the Kit locus mutations (dominant spotting alleles). Most of the alleles at steel locus cause severe anemia in utero and death by 15 to 16 days of gestation in homozygous mutant mice. However, compounds of two steel mutants (e.g., Kitl<sup>Sl</sup>/Kitl<sup>Sl-c</sup>) are viable, black-eyed white, are usually sterile in one or both sexes, and have severe macrocytic anemia. Heterozygous steel mice have a diluted coat color with a small amount of white spotting, are viable and fertile, and may have a slight macrocytic anemia. Primordial germ cells are absent in the nonviable steel homozygotes and severely reduced in steel heterozygotes. Mast cells are virtually absent in skin and other tissues of steel mutant mice. Tumors tend to develop in germ-cell-deficient ovaries with advancing age. This strain is also carrying the caracal-J (Krt71<sup>Ca-J</sup>) and hammer toe (Hm) mutations.
Genotyping Protocols

Genotyping resources and troubleshooting

Breeding Considerations

Krt71<ca-J>, Kitl<sl> and Hm are not linked and thus mice with various combinations of these mutations will be found from an Heterozygote x F1 breeding scheme.

Additional Breeding and Husbandry Support

Citation

When using the C3F1 x Csaj/a Hm Kitl<sl> Krt71<ca-J/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #000291 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.

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.

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
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Terms Of Use

General Terms and Conditions

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**Licensing Information**

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

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**Animal Care and Use for SERVICES**

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Related Strains

All

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Shipments have begun at our new facility, allowing increased access to JAX mouse models.

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TOMORROW'S CURES

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