C57BL/6-Nfe2l2^tm1.1Sred/SbisJ

Stock No: 025433 | Nrf2^flox

Coisogenic, Targeted Mutation

AVAILABLE

PLACE ORDER

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

Overview

Also Known As: Nrf2^flox

These floxed mutant mice possess loxP sites flanking exon 5 of the Nfe2l2 gene. This strain may be useful for generating conditional mutations in applications related to wound repair and inflammation.

Donating Investigator

Sekhar Reddy, University of Illinois College of Medicine
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nfe2l2^{tm1.Sred}</td>
<td>N10-pN1F6</td>
</tr>
<tr>
<td></td>
<td>(2019-02-07 00:00:00)</td>
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</table>

**Nfe2l2^{tm1.Sred}**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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</thead>
<tbody>
<tr>
<td>Targeted (Conditional ready (e.g. floxed), No functional change)</td>
<td>Nfe2l2</td>
<td>nuclear factor, erythroid derived 2, like 2</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

- Internal/Organ Research
- Research Tools
- Immunology, Inflammation and Autoimmunity Research

BASE PRICE

Starting at:

$270.00 Domestic price for female

Details

Detailed Description

The targeted Nfe2l2 gene, also known as Nrf2, encodes a transcription factor that is involved in oxidative stress response. These mice possess loxP sites on either side of Exon 5 which encodes the DNA binding domain. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exon 5 deleted in the cre-expressing tissues. Removal of the floxed sequence creates a null allele. Mice that are homozygous for this allele are viable and fertile.

When bred to a strain with Cre recombinase expression in lung Clara cells, this mutant mouse strain may be useful in studies of lung injury and inflammation.
Genotyping Protocols
Standard PCR: Nfe2l2<sup>tm1.1Sred</sup>
Genotyping resources and troubleshooting

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

Breeding Considerations
When maintaining a live colony, these mice can be bred as homozygotes.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using the Nfe2l2<sup>fox</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #025433 in your Materials and Methods section.

AX12 (Maximum)
# Pricing & Availability

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

## Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>Live Mouse</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Nfe2l2&lt;sup&gt;tm1.15red&lt;/sup&gt;</td>
<td>$270.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Nfe2l2&lt;sup&gt;tm1.15red&lt;/sup&gt;</td>
<td>$270.00</td>
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</table>

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## Terms Of Use

### Terms of Use

General Terms and Conditions

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Phone: 207-288-6470  
Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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