Overview

Also Known As: Irf1 KO
Type I interferon gene induction is abnormal in homozygous mice. They exhibit impairment of CD8<sup>+</sup> T cell and NK cell maturation, impaired IL-12 macrophage production, exclusive Th2 differentiation, and defective Th1.

Donating Investigator
Dr. Ronald Schwartz, National Institutes of Health
Mice homozygous for the *Irf1* targeted mutation are viable and fertile with no major abnormalities. Type I interferon gene induction is abnormal. These mice exhibit impairment of CD8⁺ T cell and NK cell maturation, impaired IL-12 macrophage production, exclusive Th2 differentiation, and defective Th1. While these mice are highly susceptible to infections, they have been reported to be resistant to several autoimmune diseases such as collagen-induced arthritis, experimental autoimmune encephalomyelitis, Helicobacter pylori-induced gastritis, induced lymphocytic thyroiditis, insulitis, or diabetes.
Genotyping Protocols
Standard PCR: Irf1
Genotyping resources and troubleshooting

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

Breeding Considerations
When maintaining the live colony, homozygous mice may be bred together. The expected coat color from breeding is Black.

Additional Breeding and Husbandry Support
Mating System
Homozygote x Homozygote

Appearance
black
Related Genotype: a/a

Citation
When using the Irf1 KO mouse strain in a publication, please cite the originating article(s) and include JAX stock #002762 in your Materials and Methods section.

Animal Health Reports

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

Domestic
Pricing effective for USA, Canada and Mexico shipping destinations

### Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
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<tbody>
<tr>
<td>4 weeks</td>
<td>Female</td>
<td>Homozygous for Irf1</td>
<td>$236.78</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Irf1</td>
<td>$236.78</td>
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