**Overview**

**Also Known As:** IR$^{\text{Lox}}$

These IR$^{\text{Lox}}$ mutant mice have loxP sites flanking exon 4 of the targeted gene. When bred to Cre-recombinase expressing mice, offspring will have a deletion of exon 4 in the cre expressing tissue(s). These floxed mice may be useful in studying insulin receptor function in several different tissues (including pancreas, liver, and skeletal muscle), as well as diabetes and glucose regulation.

**Donating Investigator**

C. Ronald Kahn, Joslin Diabetes Center
GENETIC OVERVIEW

**Genetic Background**

Generation

N11+N1F6
(2019-03-18 00:00:00)

**Insr**

Allele Type: Targeted (Conditional ready (e.g. floxed), No functional change)

<table>
<thead>
<tr>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tr>
<td>Insr</td>
<td>insulin receptor</td>
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RESEARCH APPLICATIONS

Research Tools
Diabetes and Obesity Research

BASE PRICE

Starting at:

$255.00 Domestic price for female 4-week

Details

Detailed Description

Mice homozygous for this IR<sup>lox</sup> allele are viable and fertile. These mutant mice have lox<sup>P</sup> sites flanking exon 4 of the targeted gene. When bred to Cre-recombinase expressing mice, offspring will have a deletion of exon 4 in the cre expressing tissue(s). These "floxed" mice may be useful in studying insulin receptor function in several different tissues (including pancreas, liver, and skeletal muscle), as well as diabetes and glucose regulation.

For example, when crossed to a strain expressing Cre recombinase in the central and peripheral nervous system (see Stock No. 003771), this mutant mouse strain may be useful in studies of glucose homeostasis.

When crossed to a strain expressing Cre recombinase in skeletal and cardiac muscle (see Stock No. 006475), this mutant mouse strain may be useful in studies of diabetes.

When crossed to a strain expressing Cre recombinase in the liver (see Stock No. 003574), this mutant mouse strain may be useful in
studies of insulin resistance.

When crossed to a strain expressing Cre recombinase in pancreatic beta cells (see Stock No. 003573), this mutant mouse strain may be useful in studies of diabetes.
Pricing & Availability

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

Available

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

<table>
<thead>
<tr>
<th>Live Mouse</th>
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<th>GENOTYPE</th>
<th>PRICE</th>
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Related Products and Services

Frozen Mouse Embryo | B6.129S4(FVB)-Insr<tm1Khn>/J | $2595.00

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Terms Of Use

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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