B6.129P2-Fcgr3^{tmJsv}/2J

Stock No: 009637 | Fc RIII

- Congenic, Targeted Mutation

**REQUEST CRYORECOVERY**

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

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**Overview**

**Also Known As: CD16(SLE BL/6), Fc RIII**

Mice homozygous for the Fcgr3^{tmJsv} (Fc receptor, IgG, low affinity III) targeted mutation lack NK cell-mediated antibody-dependent cytotoxicity, phagocytosis of IgG1-coated particles by macrophages, IgG-mediated mast cell degranulation, are resistant to IgG-dependent passive cutaneous anaphylaxis, and exhibit an impaired Arthus reaction. This mutant mouse strain may be useful in studies of allergic response, anaphylaxis, and hypersensitive immune response.
### GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fcgr3&lt;sup&gt;tm1Jsv&lt;/sup&gt;</strong></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Fcgr3</td>
<td>Fc receptor, IgG, low affinity III</td>
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</table>

VIEW GENETICS

### RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

### BASE PRICE

Starting at:

- $2,595.00 Domestic price Cryo Recovery

VIEW PRICE LIST

### Details

#### Detailed Description

Mice homozygous for the Fcgr3<sup>tm1Jsv</sup> targeted mutation, which eliminates the ligand-binding alpha chain of FcgammaRIII, are viable and fertile. Homozygous mutant mice lack NK cell-mediated antibody-dependent cytotoxicity, phagocytosis of IgG1-coated particles by macrophages, and IgG-mediated mast cell degranulation. They are resistant to IgG-dependent passive cutaneous anaphylaxis, and exhibit an impaired Arthus reaction. SNP analysis completed by the Donating Investigator shows that these mice carry the C57BL/6 derived Slep1b, systematic lupus erythematosus susceptibility 1b, locus.

#### Development

#### Control Suggestions
Genotyping Protocols
Standard PCR: Fcgr3^Im1Jv
Genotyping resources and troubleshooting

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

Citation
When using the FcR-IIIm^Im1Jv mouse strain in a publication, please cite the originating article(s) and include JAX stock #009637 in your Materials and Methods section.
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 stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

**The Jackson Laboratory’s Genotype Promise**

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain’s phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project.

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**Terms Of Use**

**Terms of Use**

**General Terms and Conditions**

**QUESTIONS ABOUT TERMS OF USE**

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

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Consistent with the requirement for a written understanding regarding animal care and use, the JACKSON Animal Care and Use Committee will review the animal care and use protocol(s) associated with any SERVICES to be performed at JACKSON, and JACKSON shall have ultimate responsibility and authority for the care of animals while on site or in JACKSON custody.

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