

## D1.129P2(B6)-*Fcer1g*<sup>tm1Rav</sup>/J

Stock No: 017793 | FcRg-

 Congenic, Targeted Mutation

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

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### Donating Investigator

Sandra Kleinau, Biomedical Center, Uppsala University

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## GENETIC OVERVIEW

Genetic Background      Generation

*Fcer1g*<sup>tm1Rav</sup>

Alele Type	Gene Symbol	Gene Name
Targeted (Null/Knockout)	<i>Fcer1g</i>	Fc receptor, IgE, high affinity I, gamma polypeptide

VIEW GENETICS

## RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W   P R I C E   L I S T

## Details

### Detailed Description

Fc IgE receptors are found on immune effector cells and mediate macrophage phagocytosis, antibody-dependent cell-mediated cytotoxicity, mast cell degranulation, IgE-mediated systemic anaphylaxis and neutrophil recruitment. These mice carry a targeted mutation of the *Fcer1g* (Fc receptor, IgE, high affinity I, gamma polypeptide ) gene and have been backcrossed onto the autoimmune-susceptible DBA/1 background. In homozygous mice challenged with collagen-induced arthritis, fewer mice develop arthritic symptoms, and the symptoms are mild compared to wildtype controls. Mutant mice that develop collagen-induced arthritis do not exhibit inflammatory cell infiltration in the synovium or cartilage and bone erosion. However, homozygotes produce total IgG anti-collagen antibodies at levels similar to those seen in controls. During backcrossing, the Y chromosome may not have been fixed to the DBA/1 genetic background. Mice that are homozygous for the targeted mutation are viable, fertile and normal in size.

### Development

### Control Suggestions

### Selected References

## Genetics

### *Fcer1g*<sup>tm1Rav</sup>

## Disease/Phenotype

### Disease Terms

### Research Areas By Phenotype

### Mammalian Phenotype Terms by Genotype

### References

## Technical Support

C O N T A C T   T E C H N I C A L   S U P P O R T

### Genotyping Protocols

Standard PCR:[Fcer1galternate1](#)

[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 FcRg- mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017793 in your Materials and Methods section.

### Animal Health Reports

[Facility Barrier Level Descriptions](#)

*Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)*

## Pricing & Availability



Cryo  
Recovery

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

## Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

### CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous for Fcer1g<tm1Rav>	\$2,854.50

### RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	D1.129P2(B6)-Fcer1g<tm1Rav>/J Frozen Embryo	\$2595.00
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## Terms Of Use

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Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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