

C; 129S4-Rag2^{tm1.1Flv} Il2rg^{tm1.1Flv} /J

Stock No: 014593 | Rag2-γc-

 Targeted Mutation

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

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Donating Investigator

Dr. Richard A. Flavell, Yale University School of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

F?+F21
(2020-03-17 00:00:00)

Rag2^{tm1.1Flv}

Allele Type

Targeted (Null/Knockout)

Gene Symbol

Rag2

Gene Name

recombination activating gene 2

Il2rg^{tm1.1Flv}

Allele Type

Targeted (Null/Knockout)

Gene Symbol

Il2rg

Gene Name

interleukin 2 receptor, gamma chain

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Immunology, Inflammation and Autoimmunity Research

BASE PRICE

Starting at:

\$183.00 Domestic price for female 4-week

VIEW PRICE LIST

Details

Detailed Description

Both the *Rag2* and the X-linked *Ii2rg* genes were targeted in these compound mutant mice. Homozygous *Rag2* and hemizygous male/homozygous female *Ii2rg* animals lack T, B, and NK cells. Their immunodeficiencies make them particularly useful as transplant hosts. Liver hematopoietic stem and progenitor cell transplants create a humanized model that may be used to develop and test novel immune therapeutic and preventative strategies.

The creation of this strain was funded by the Bill and Melinda Gates Foundation.

Development

Control Suggestions

Selected References

Genetics

Rag2^{tm1.1Flv}

Ii2rg^{tm1.1Flv}

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:[Laragen](#)

Separated MCA:[Rag2 Alternate 1](#)

Standard PCR:[Il2rg Alternate1](#)

QPCR:[Generic Neo Quantitative PCR-QPCR- 1.2](#)

Standard PCR:[Generic Neo](#)

Standard PCR:[Rag2](#)

Probe:[Generic Neo](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintained as a live colony, mice that are both homozygous for the *Rag2* mutation and hemizygous/homozygous for the X-linked *Il2rg* mutation may be intercrossed.

[Additional Breeding and Husbandry Support](#)

Mating System

See "Breeding Considerations"

Citation

When using the Rag2- γ c- mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #014593 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX11 \(Maximum\)](#)

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| LIVE MOUSE | | | |
|------------|--------|--|----------|
| AGE | SEX | GENOTYPE | PRICE |
| 4 weeks | Female | Homozygous for Rag2 ^{tm1.1Fv} Homozygous for Il2rg ^{tm1.1Fv} | \$183.00 |
| 4 weeks | Male | Homozygous for Rag2 ^{tm1.1Fv} Hemizygous for Il2rg ^{tm1.1Fv} | \$183.00 |
| 5 weeks | Female | Homozygous for Rag2 ^{tm1.1Fv} Homozygous for Il2rg ^{tm1.1Fv} | \$183.00 |
| 5 weeks | Male | Homozygous for Rag2 ^{tm1.1Fv} Hemizygous for Il2rg ^{tm1.1Fv} | \$183.00 |
| 6 weeks | Female | Homozygous for Rag2 ^{tm1.1Fv} Homozygous for Il2rg ^{tm1.1Fv} | \$183.00 |
| 6 weeks | Male | Homozygous for Rag2 ^{tm1.1Fv} Hemizygous for Il2rg ^{tm1.1Fv} | \$183.00 |
| 7 weeks | Female | Homozygous for Rag2 ^{tm1.1Fv} Homozygous for Il2rg ^{tm1.1Fv} | \$183.00 |
| 7 weeks | Male | Homozygous for Rag2 ^{tm1.1Fv} Hemizygous for Il2rg ^{tm1.1Fv} | \$183.00 |
| 8 weeks | Female | Homozygous for Rag2 ^{tm1.1Fv} Homozygous for Il2rg ^{tm1.1Fv} | \$183.00 |
| 8 weeks | Male | Homozygous for Rag2 ^{tm1.1Fv} Hemizygous for Il2rg ^{tm1.1Fv} | \$183.00 |

RELATED PRODUCTS AND SERVICES

| | | |
|-------------------------------------|--|-----------|
| Frozen Mouse Embryo | C;129S4-Rag2<tm1.1Fv> Il2rg<tm1.1Fv>/J | \$2595.00 |
|-------------------------------------|--|-----------|

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