

## B6.129X1(Cg)-Csf3r<sup>tm1Link</sup>/J

Stock No: 017838 | G-CSFR-

 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

Daniel C. Link, Washington University Medical School

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## GENETIC OVERVIEW

Genetic Background

Generation

*Csf3r<sup>tm1Link</sup>*

**Alele Type**

Targeted (Null/Knockout)

**Gene Symbol**

*Csf3r*

**Gene Name**

colony stimulating factor 3 receptor (granulocyte)

VIEW GENETICS

## RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

Apoptosis Research

Cell Biology 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

A neo cassette replaces exons 3-8 of the endogenous colony stimulating factor 3 receptor (*Csf3r*) gene, abolishing gene function. Homozygotes are viable and fertile. CSF3R is the transmembrane receptor for colony stimulating factor 3 (G-CSF), a cytokine that controls the production, differentiation, and function of granulocytes. Expressed in precursor cells in the bone marrow, CSF3R also initiates the maturation of granulocytes. These mice contain a decreased number of circulating neutrophils. They also exhibit a 50% decrease of mature myeloid cells, metamyelocytes, and hematopoietic stem cells, and granulocytes in bone marrow. Neutrophils from these mice display impaired chemotaxis in response to G-CSF and Interleukin 8 (IL8). Increased apoptosis is evident in cultured bone marrow derived mononuclear cells.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Csf3r*<sup>tm1Link</sup>

### Disease/Phenotype

#### Disease Terms

#### Research Areas By Phenotype

#### Mammalian Phenotype Terms by Genotype

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+ References

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– 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:[Csf3r Alternate1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together. Homozygous mice are produced at a reduced Mendelian ratio (~10%) from heterozygous matings.

[Additional Breeding and Husbandry Support](#)

Citation

When using the G-CSFR- mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017838 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](#)*

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– 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 <a href="#">Csf3r&lt;tm1Link&gt;</a>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6.129X1(Cg)-Csf3r<tm1Link>/J

\$2595.00

## 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. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

## Terms Of Use

### TERMS OF USE

[General Terms and Conditions](#)

QUESTIONS ABOUT TERMS OF USE

### ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

### LICENSING INFORMATION

Phone: 207-288-6470

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

## Related Strains

All

By Allele

By Gene

By Collection



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