

**C.129X1(B6)-*Ebi3*<sup>tm1Rsb</sup>/J**

Stock No: 008701

 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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Th1/Th2 immune responses (including inflammatory bowel disease).

### Donating Investigator

Richard S Blumberg, Brigham and Women's Hospital

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## GENETIC OVERVIEW

Genetic Background

Generation

*Ebi3*<sup>tm1Rsb</sup>

**Alele Type**

**Gene Symbol**

**Gene Name**

Targeted (Null/Knockout)

*Ebi3*

Epstein-Barr virus induced gene 3

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Cancer Research

Cell Biology Research

Immunology, Inflammation and Autoimmunity Research

Internal/Organ 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

Mice homozygous for this Ebi3-mutant allele are viable and fertile with the donating investigator reporting no overt autoimmunity or inflammatory disease associated with the mutation. No RNA from the targeted gene is observed in splenocytes isolated from homozygotes. Ebi3-deficiency leads to impaired T<sub>reg</sub> activity with failure to control homeostatic proliferation. Homozygotes exhibit decreased numbers and function of invariant natural killer T cells (iNKT); stimulated iNKT cells show impaired IL-4 production both *in vivo* and *in vitro*. Homozygotes are resistant to oxazolone-induced colitis (mediated primarily by T helper (Th) 2-type cytokine production by iNKT cells), whereas Ebi3-deficiency shows no affect on trinitrobenzene sulfonic acid-induced colitis (a predominantly Th1-mediated colitis model). These Ebi3-mutant strains may be useful in studying T<sub>reg</sub> function, IL12 heterodimeric cytokines (such as IL-35 and IL-27) and IFN $\gamma$  production, and Th1/Th2 immune responses (including inflammatory bowel disease).

*Of note, Ebi3-mutant mice may also be available on a C57BL/6 congenic background (see Stock No. [008691](#)).*

*In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.*

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### [+](#) *Ebi3*<sup>tm1Rsb</sup>

## – Disease/Phenotype

[+ Disease Terms](#)

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[+ Research Areas By Phenotype](#)

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[+ 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:[Ebi3MCA](#)

Standard PCR:[Ebi3](#)

Standard PCR:[Ebi3 MCA](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the C.129X1(B6)-*Ebi3*<sup>tm1Rsb</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008701 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



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
Cryo Recovery	Heterozygous for Ebi3<tm1Rsb>	\$2,854.50

### RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	C.129X1(B6)-Ebi3<tm1Rsb>/J	\$2595.00
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## 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

## ☰ Related Strains

- All
- By Allele
- By Gene
- By Collection




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