



CBA.129S1 (B2b)^m/J

Stock No: 019002

Congenic, Targeted Mutation



CRYORECOVERY

PLACE ORDER

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

Overview

These IL-12p40-deficient CBA mice exhibit less severe hepatic inflammation in response to schistosome infection when compared to wildtype controls, and have applications in studies related to the Th17 cell immune response to parasitic infection.

Donating Investigator

Miguel J. Stadecker, Tufts Medical School

READ MORE +

GENETIC OVERVIEW

Genetic Background Generation

Il12b^{tm1Jm}

Allele Type	Gene Symbol	Gene Name
Targeted (Null/Knockout)	<i>Il12b</i>	interleukin 12b

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Cancer Research
Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Il12b, interleukin 12 beta, encodes the 40 kD cytokine receptor-like subunit of interleukin 12, a cytokine secreted by activated macrophages and important in the development and maintenance of memory/effector Th1 cells in long term immune responses to intracellular pathogens. CBA/J inbred mice are more susceptible to schistosomiasis, developing a more severe perioval granulomatous inflammation when compared to the C57BL/6 inbred strain. These mice carry a targeted mutation of *Il12b*, interleukin 12 beta, in which part of exon 3 is replaced by a PGK-Neo cassette. No bioactive IL-12 protein is detected by ELISA analysis of schistosome egg- or LPS-stimulated dendritic cells derived from the bone marrow of homozygotes. Schistosome-infected homozygotes exhibit reduced granulomatous inflammation (smaller granuloma size, reduced serum aspartate aminotransferase level) and produce lower levels of IL17 and IFNG when compared to wildtype controls. The Donating Investigator reports that although homozygotes are viable, homozygous females are difficult to breed. During back-crossing, the Y chromosome was not fixed to the

CBA/J genetic background.

+ Development

+ Control Suggestions

+ Selected References

- Genetics

+ *Il12b^{tm1Jm}*

- Disease/Phenotype

+ Disease Terms

+ Research Areas By Genotype

+ Mammalian Phenotype Terms by Genotype

+ References

- Technical Support

C H A T O  F L I N E

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

Separated PCR:*Il12b^{tm1Jm}*

Separated PCR:*Il12b^{tm1Jm}*

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice can be bred by crossing heterozygous females with homozygous males. The Donating Investigator reports that although homozygotes are viable, homozygous females are difficult to breed.

[Additional Breeding and Husbandry Support](#)

Citation

When using the CBA-129S1(B6)-*Il12b^{tm1Jm}*/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #019002 in your Materials and Methods section.

[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	GENOTYPE	PRICE
Cryo Recovery	Heterozygous for Il12b<tm1Jm>	\$2,854.50

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.

Related Products and Services

Frozen Mouse Embryo	CBA.129S1(B6)-Il12b<tm1Jm>/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.

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[General Terms and Conditions](#)

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