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Stock No: 002249 | muMt⁻

Congenic, Targeted Mutation



CRYO RECOVERY

P L A C E O R D E R

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

Overview

Also Known As: muMt⁻

Mice homozygous for the *Ighm*^{tm1Cgn} knock-out mutation have a disruption of one of the membrane exons of the gene encoding immunoglobulin heavy chain of the class mu (IgM) and lack mature B-cells. These mice may be useful as a model for B-cell

immunodeficiency found in humans.

Donating Investigator

Klaus Rajewsky, Max Delbrück Centre for Molecular Medicine

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Ighm^{tm1Cgn}

Allele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Ighm

immunoglobulin heavy constant mu

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Mice homozygous for the *Ighm*^{tm1Cgn} targeted mutation are viable and fertile. Homozygous mutant mice lack mature B-cells. There is no expression of membrane-bound IgM, although some B-cells may be produced using a C gene other than *mu*. It may be useful as a model for B-cell immunodeficiency found in humans. Also known as *mu*MT.

Control Suggestions

Selected References

– Genetics

+ [Ighm^{tm1Cgn}](#)

– Disease/Phenotype

+ [Disease Terms](#)

+ [Research Areas By Genotype](#)

+ [Mammalian Phenotype Terms by Genotype](#)

+ [References](#)

– Technical Support

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

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: [Ighm^{tm1Cgn}](#)

Standard PCR: [Ighm^{tm1Cgn}](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes. The expected coat color from breeding is black.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Appearance

black

Related Genotype: *a/a*

Citation

When using the m^uM^e mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002249 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

Cryorecovery - Domestic Pricing

SERVICE	GENOTYPE	PRICE
Cryo Recovery	Homozygous for Igh-6<tm1Cgn>, 1 pair minimum	\$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.

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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Licensing Information

Phone: 207-288-6470

Email: TechTran@jax.org

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