



B 6 . 1 2 9 / S q ^{tm13} / J

Stock No: 008698

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

These integrin beta 3 targeted mutant mice exhibit significant embryonic lethality attributed to fetal hemorrhaging and placental defects. This mutant mouse strain represents a model that may be useful in studies related to Glanzmann thrombasthenia.

Donating Investigator

Dr. Richard Hynes, Massachusetts Institute of Technology

GENETIC OVERVIEW

Genetic Background

Generation

Itgb3^{tm1Hyn}

Allele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Itgb3

integrin beta 3

VIEW GENETICS

RESEARCH APPLICATIONS

Internal/Organ Research

Cardiovascular Research

Hematological Research

Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Mice that are homozygous for this targeted allele are viable and fertile. No gene product (protein) is detected on the surface of platelets. Significant (50%) embryonic lethality attributed to fetal hemorrhaging and placental defects is observed. Until three weeks of age, additional pup loss may occur due to hemorrhaging in the skin and gastrointestinal tract. Gastrointestinal tract bleeding is commonly observed in adults and is frequently associated with an enlarged spleen. Erythrocyte number, hemoglobin, hematocrits and thrombus formation are all reduced while bleeding time is prolonged. Varying degrees of liver and kidney necrosis are also observed. Although increased numbers of osteoclasts are observed (3.5 fold over that seen in heterozygotes) they appear to be dysfunctional, having a reduced ability to resorb whale dentin in vitro. Mice are osteosclerotic and hypocalcemic. Enhanced tumor angiogenesis and vascular endothelial growth factor-induced blood vessel growth are observed. This mutant mouse strain represents a model that may be useful in studies related to Glanzmann thrombasthenia.

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. This is the case for the strain above. 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

+ Selected References

- Genetics

+ *Itgb3^{tm1Hyn}*

- 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

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintained as a live colony, homozygotes or heterozygotes may be bred. On a C57BL/6 background, viability may be compromised and heterozygous females may perform better.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the B6.129S2-*Itgb3^{tm1Hyn}*/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008698 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



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 Itgb3<tm1Hyn>	\$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	B6.129S2-Itgb3<tm1Hyn>/J Frozen Embryo	\$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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Terms of Use

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All

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