

B6;129-*Itgb1*^{tm1Efu}/J

Stock No: 004605 | β 1 integrin floxed

 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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These floxed mutant mice possess *loxP* sites flanking exon 3 of the *Itgb1* gene. This strain may be useful for generating conditional mutations in applications related to studies of epithelium and endothelium function and development.

Donating Investigator

Elaine Fuchs, The Rockefeller University

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GENETIC OVERVIEW

Genetic Background

Generation

Itgb1^{tm1Efu}

Alele Type

Targeted (Conditional ready (e.g. floxed), No functional change)

Gene Symbol

Itgb1

Gene Name

integrin beta 1 (fibronectin receptor beta)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Developmental 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

These mice possess *loxP* sites on either side of exon 3 of the targeted gene. Mice that are homozygous for this allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities.

When bred to a strain expressing Cre recombinase in the epithelial cells of the intestine (see Stock No. [004586](#) for example), this mutant mouse strain may be useful in studies of intestinal hyperplasia.

When bred to a strain expressing Cre recombinase in the podocytes of the kidney glomeruli (see Stock No. [008205](#) for example), this mutant mouse strain may be useful in studies of glomerular structural integrity.

Development

Control Suggestions

Selected References

Genetics

$Itgb1^{tm1Efu}$

Disease/Phenotype

Disease Terms

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- 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

End Point Analysis:[Itgb1-EP](#)

Standard PCR:[Itgb1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Resulting chimeric animals were bred to C57BL/6J mice once before being made homozygous. Expected coat colors are: dark brown (almost black) it is suspected that they are a/a Tyr<c-ch>/Tyr<c-ch>.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the $\beta 1$ integrin floxed mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #004605 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/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Itgb1<tm1Efu>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6;129-Itgb1<tm1Efu>/J Frozen Embryos	\$2595.00
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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.

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Q U E S T I O N S A B O U T T E R M S O F U S E

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[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

Related Strains

All

By Allele

By Gene

By Collection



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