

**B6;129X1-*Itgb1*<sup>tm1Mll</sup>/AjkJ**

Stock No: **029354** | beta1-flox

 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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conditional mutations in applications related to cell adhesion, cell migration, embryonic development, as well as the inflammatory immune response.

### Donating Investigator

Anthony J Koleske, Yale University

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## GENETIC OVERVIEW

Genetic Background

Generation

*Itgb1*<sup>tm1Mll</sup>

**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

Neurobiology 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

The targeted *Itgb1* gene encodes the the integrin beta 1 subunit (also known as fibronectin receptor beta) and is the most abundant beta-integrin.

These mice possess *loxP* sites on either side of exon 1 of the targeted gene. Mice that are homozygous for this allele are viable and fertile. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exon 1 deleted in the *cre*-expressing tissues.

When crossed to nestin-cre mice (in which Cre recombinase activity is detected at E10.5 in neural tissue), no protein detected in neural tissue from embryos aged embryonic days 12.5 and 15.5, and postnatal day 1 neonates.

When bred to a strain with Cre recombinase expression in embryonic neural tissue (see Stock No. [003771](#) for example), this mutant mouse strain may be useful in studies of neuronal structure and development.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Itgb1*<sup>tm1MII</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:[Itgb1](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the beta1-flox mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #029354 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
<a href="#">Cryo Recovery</a>	Heterozygous for Itgb1<tm1MII>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	B6;129X1-Itgb1<tm1MII>/AjkJ Frozen Embryo	\$2595.00
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## 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

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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

### ADDITIONAL USE RESTRICTIONS APPLY

[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](mailto:TechTran@jax.org)

## Related Strains

All

By Allele

By Gene

By Collection



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