

C57BL/6-*Itgal*^{tm1.1Mshi} /JStock No: **014148** **Coisogenic, 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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Motomu Shimaoka, Immune Disease Institute (formerly CBRI)

[R E A D M O R E +](#)**GENETIC OVERVIEW****Genetic Background****Generation***Itgal*^{tm1.1Mshi}**Alele Type**

Targeted (Not Specified)

Gene Symbol*Itgal***Gene Name**

integrin alpha L

[V I E W G E N E T I C S](#)**RESEARCH APPLICATIONS**

Cell Biology Research

Immunology, Inflammation and Autoimmunity Research

[V I E W A L L R E S E A R C H A P P L I C A T I O N S](#)**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

This strain carries an I306A knock-in mutation of the *Itgal* (integrin alpha L; also known as Cd11a or LFA-1) gene. This mutation was shown to perturb lymphocyte de-adhesion that is part of circulating T cell homing/rolling to lymph nodes via endothelial venules. Homozygotes are viable and fertile and do not exhibit any gross abnormalities or developmental defects except for a smaller sized peripheral lymph nodes which contain fewer lymphocytes as compared to wildtype mice. Lymphocytes from these mice show reduced expression of ITGAL, but not other integrins. These mice may be useful in studies of integrin function.

Development

Control Suggestions

Selected References

Genetics

Itgal^{tm1.1Mshi}

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

Standard PCR:[Itgal](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintained as a live colony, homozygotes or heterozygotes may be bred.

[Additional Breeding and Husbandry Support](#)

Citation

When using the C57BL/6-*Itgal*^{tm1.1Mshi}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #014148 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 <i>Itgal</i> <tm1.1Mshi>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	C57BL/6- <i>Itgal</i> <tm1.1Mshi>/J	\$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.

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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

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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TOMORROW'S CURES



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