

C57BL/6-Tg(IL21-cre)GLipp/J

Stock No: **028840** | IL21-Cre

 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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generating reporter mice that allow for the characterization and tracing of the development of IL-21 expressing cells.

Donating Investigator

Gerd Mueller, Max-Delbrueck-Center for Molecular Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(IL21-cre)GLipp

Alele Type

Transgenic (Recombinase-expressing)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Immunology, Inflammation and Autoimmunity 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

IL-21-Cre mice express a codon optimized Cre recombinase (*iCre*) under control of the mouse interleukin 21 (*IL21*) promoter. IL-21 is a cytokine produced by CD4⁺ T cell populations, in particular T follicular helper (T_{FH}) cells, T_H 17 cells, and natural killer T (NKT) cells. IL-21 exerts numerous immune-enhancing and immune-regulatory functions, thus playing a critical role in the initiation and control of both innate and adaptive immune responses. It acts on a broad range of cell types including, but not limited to, T cells, B cells, macrophages, monocytes, and dendritic cells by modulating proliferation, differentiation, phagocytosis, apoptosis, and the production of other cytokines. IL-21-Cre mice may be particularly useful for the generation of reporter mice that allow for the characterization and tracing of the development of IL-21 expressing cells such as follicular T helper (T_{fh}) cells. Hemizygous mice are viable and fertile. The donating investigator did not attempt to make a homozygous colony.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(IL21-cre)GLipp

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: [Tg\(IL21-cre\)GLipp](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony hemizygous mice may be bred together. The donating investigator did not attempt to make a homozygous colony.

[Additional Breeding and Husbandry Support](#)

Mating System

Noncarrier x Hemizygote

Hemizygote x Noncarrier

Citation

When using the IL21-Cre mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #028840 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	Hemizygous or non carrier for Tg(I121-cre)GLipp	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	C57BL/6-Tg(I121-cre)GLipp/J	\$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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