

B6.129-Gfi1^{tm2Tmo} /J

Stock No: 016162 | Gfi1:GFP knock-in

 Congenic, 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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studies of *Gfi1* expressing cells during hematopoiesis, lymphopoiesis and B and T cell development.

Donating Investigator

Tarik Moroy, IRCM

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GENETIC OVERVIEW

Genetic Background

Generation

Gfi1^{tm2Tmo}

Alele Type

Targeted (Reporter, Null/Knockout)

Gene Symbol

Gfi1

Gene Name

growth factor independent 1 transcription repressor

VIEW GENETICS

RESEARCH APPLICATIONS

Sensorineural Research

Neurobiology Research

Developmental Biology Research

Internal/Organ Research

Research Tools

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 mutant mice express EGFP (Enhanced Green Fluorescent Protein) from the endogenous *Gfi1* locus. No endogenous gene product (protein) is detected in thymocytes from homozygotes, as detected by FACS analysis. Homozygotes exhibit neutropenia, decreased thymocyte number, and defective B cell and T cell differentiation. The Donating Investigator reports that homozygous mice must be maintained under spf conditions and have a lifespan of 1 year. GFP fluorescence expression mimics the expression pattern of the endogenous gene. Mice that are heterozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. Almost all thymocytes from heterozygotes fluoresce. Fluorescence of thymocytes from homozygotes is more intense than fluorescence observed in heterozygotes. At embryonic day 17.5, homozygous embryos exhibit disorganized inner ear sensory epithelia, with abnormal outer hair cells morphology. Neonate homozygotes have degeneration and loss of hair cells. During backcrossing, the Y chromosome may not have been fixed to the C57BL/6 genetic background.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Gfi1^{tm2Tmo}

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:[Gfi1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice can be bred as heterozygotes. The Donating Investigator reports that homozygous mice must be maintained under spf conditions and have a lifespan of approximately 1 year.

[Additional Breeding and Husbandry Support](#)

Citation

When using the Gfi1:GFP knock-in mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #016162 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 NOT-FOR-PROFIT & ACADEMIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for Gfi1<tm2Tmo>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129-Gfi1<tm2Tmo>/J Frozen Embryo	\$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.

Terms Of Use

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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All

By Allele

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