

B6.129-Gfi1^{tm3(Gfib1)Tmo} /J

Stock No: **016163** | Gfi1:Gfi1b 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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independent 1) locus and may be useful in studies of deafness, hematopoiesis, and lymphopoiesis.

Donating Investigator

Tarik Moroy, IRCM

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GENETIC OVERVIEW

Genetic Background

Generation

Gfi1^{tm3(Gfib1)Tmo}

Alele Type

Gene Symbol

Gene Name

Targeted

Gfi1

growth factor independent 1 transcription repressor

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Developmental Biology Research

Hematological Research

Immunology, Inflammation and Autoimmunity Research

Research Tools

Sensorineural 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 mutant mice express mouse *Gfi1b* (growth factor independent 1B) from the endogenous *Gfi1* locus. Mice that are homozygous for the targeted mutation are viable, fertile and normal in size. Higher expression levels of *Gfi1b* transcript is detected in inner ears as measured by RT-PCR analysis. The *Gfi1b* knock-in did not completely rescue the *Gfi1* knock out phenotype (see STOCK No. [016161](#)). Homozygotes have slightly fewer granulocytes in bone marrow, a small accumulation in bone marrow of immature myeloid cells and monocytes, and fewer mature circulating granulocytes when compared to wildtype controls. At 3 to 3.5 months in age, homozygotes are deaf, do not display a Preyer reflex, abnormal auditory brainstem response (over 100 dB at 8 kHz and over 90 dB at 16 and 32 kHz), and exhibit head bobbing and abnormal reaching response. In neonatal mutants, the cochlear inner hair cells are morphologically immature and the outer hair cells are smaller in size and disorganized with progressive degeneration. The cochlear phenotype is less severe in these mice when compared to the knock-out mice. 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^{tm3(Gfib1)Tmo}*

⊖ 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 homozygotes.

[Additional Breeding and Husbandry Support](#)

Citation

When using the Gfi1:Gfi1b knock-in mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #016163 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

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 or wildtype for Gfi1^{tm3(Gfib1)}Tmo>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129-Gfi1^{tm3(Gfib1)}Tmo>/J 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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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

Related Strains

All

By Allele

By Gene

By Collection



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