

B6N;129S6-Eef1a1^{tm1Tcr1}/J
Stock No: **027588** | EF1a^{Cre3-GFP}

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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tissues.

Donating Investigator

Thomas J. Carroll, The University of Texas Southwestern Medical Center

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GENETIC OVERVIEW

Genetic Background

Generation

Eef1a1^{tm1Tcr1}

Alele Type

Targeted (Conditional ready
(e.g. floxed), Reporter)

Gene Symbol

Eef1a1

Gene Name

eukaryotic translation elongation factor 1 alpha 1

VIEW GENETICS

RESEARCH APPLICATIONS

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

EF1a^{Crb3-GFP} KI mice contain a floxed STOP cassette and a crumbs family member 3 (*Crb3*)-enhanced green fluorescent protein (GFP) fusion protein (*Crb3-GFP*) in exon 1 of the eukaryotic translation elongation factor 1 alpha 1 (*Eef1a1*) gene, abolishing *Eef1a1* expression. *Crumbs3* is a transmembrane protein localized to the apical membranes of epithelial cells. Homozygous *Crb3-GFP* males are viable and fertile, while homozygous females are not viable. In the absence of *Cre*, reporter gene expression is prevented by the STOP sequence. After removal of the *loxP*-flanked STOP cassette via cre-mediated recombination, GFP labels apical membranes in the majority of epithelial cell types where Cre recombinase is expressed.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Eef1a1^{tm1Tcr1}

Disease/Phenotype

Disease Terms

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:[Eif1a](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred to wildtype (noncarrier) mice from the colony or to C57BL/6NJ mice (Stock No. [005304](#)). Homozygous mice are not viable.

[Additional Breeding and Husbandry Support](#)

Mating System

Wild-type x Heterozygote

Heterozygote x Wild-type

Citation

When using the EF1a^{Crb3-GFP} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #027588 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 or wildtype for Eif1a<tm1Tcr1>	\$2,854.50

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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

Related Strains

All

By Allele

By Gene

By Collection



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