

STOCK *Klf5^{tm1Jaw} /J*
Stock No: **029787** | *Klf5^{loxP}*

 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 conditional mutations in applications related to epithelial tissue development.

Donating Investigator

Dr. Jeffrey Whitsett, Children's Hospital Medical Center

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GENETIC OVERVIEW

Genetic Background Generation

Klf5^{tm1Jaw}

Alele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed), No functional change)	<i>Klf5</i>	Kruppel-like factor 5

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Developmental Biology 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

The targeted *Klf5* gene encodes a zinc finger protein that acts as a transcriptional activator and is expressed in epithelial cells. These *Klf5^{fllox}* mice possess *loxP* sites flanking exons 2 and 3 of the targeted gene. Mice that are homozygous for this allele are viable, however fewer than expected homozygotes are produced from heterozygous crosses and female homozygotes appear to be subfertile in our colony. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exons 2 and 3 deleted in the Cre-expressing tissues. Removal of the floxed sequence creates a null allele.

When bred to strains with inducible Cre recombinase expression in lung, this mutant mouse strain may be useful in studies of lung morphogenesis.

When bred to a strain with Cre recombinase expression in the embryonic endoderm, (see Stock No. [005622](#) for example), this mutant mouse strain may be useful in studies of the lung, intestine, and bladder epithelium during development.

+ Development

+ Control Suggestions

+ Selected References

- Genetics

+ *Klf5^{tm1Jaw}*

- 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:[Klf5 Alternate1](#)

Standard PCR:[Generic Neo](#)

Probe:[Generic Neo](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Heterozygotes may be bred to C57BL/6J (Stock# [000664](#)), or wildtype littermates. While homozygotes are viable, fewer than expected homozygotes are produced (from heterozygous X heterozygous, and heterozygous x homozygous crosses) and female homozygotes appear to be subfertile in our colony.

[Additional Breeding and Husbandry Support](#)

Mating System

Heterozygote x Heterozygote

Citation

When using the Klf5^{loxP} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #029787 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](#)

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Cryo
Recovery

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Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for Klf5<tm1Jaw>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	STOCK Klf5<tm1Jaw>/J Frozen Embryo	\$2595.00
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Phone: 207-288-6470

Email: TechTran@jax.org

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