

B6;129S4-*Bmp4*^{tm1Jfm}/J
Stock No: **016878** | *Bmp4*_{flxed}

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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be useful for generating mutations in applications related to bone morphogenetic protein signaling pathways, bone biology, cardiovascular biology and cancer.

Donating Investigator

James F Martin, Baylor College of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

Bmp4^{tm1Jfm}

Allele Type

Targeted (Conditional ready
(e.g. floxed), No functional
change)

Gene Symbol

Bmp4

Gene Name

bone morphogenetic protein 4

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Cardiovascular Research

Developmental Biology Research

Cancer Research

Internal/Organ Research

Cell Biology Research

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Mice homozygous for this *Bmp4*^{loxneo} allele have *loxP* sites flanking exon 4 of the targeted gene. When bred to mice that express Cre recombinase, the resulting offspring will have the sequences encoding the endogenous mature peptide deleted in the *cre*-expressing tissues resulting in a null allele. Mice homozygous for the *Bmp4*^{loxneo} allele are viable and fertile. These mutant mice may be useful in generating conditional mutations for studying the role of *Bmp4* in bone morphogenetic protein signaling pathways, bone biology, cardiovascular biology, and cancer (*Bmp4* misregulation is associated with cancer cell motility/invasiveness and epithelial-to-mesenchymal transition/transformation [EMT]).

For example, when crossed to a strain expressing Cre recombinase in early limb bud mesenchyme and in a subset of craniofacial mesenchyme (see Stock No. [005584](#)), this mutant mouse strain may be useful in studies of limb patterning and skeletogenesis.

Development

Control Suggestions

Selected References

Genetics

Bmp4^{tm1Jfm}

⊖ 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:[Bmp4](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Citation

When using the $Bmp4^{loxneo}$ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #016878 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.

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Bmp4<tm1Jfm>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6;129S4-Bmp4<tm1Jfm>/J	\$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.

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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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