

B6N(Cg)-*Bmp7*^{tm1.1(cre/ERT2)Grsh} /J

Stock No: **029312** | Bmp7-CreERT2

 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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cloacal septation and sexual differentiation of the genital tubercle.

Donating Investigator

Irina Grishina, New York University School of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

Bmp7^{tm1.1(cre/ERT2)Grsh}

Alele Type

Gene Symbol

Gene Name

Targeted (Recombinase-expressing, Inducible)

Bmp7

bone morphogenetic protein 7

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

Bmp7-CreERT2 K1KO mice have a creER^{T2} fusion gene (a Cre recombinase fused to a human estrogen receptor ligand binding domain) replacing exon 1, including the translation start, of the bone morphogenetic protein 7 (*Bmp7*) gene. *Bmp7-CreERT2* homozygous mice are also *Bmp7*^{-/-} with respect to the BMP7 protein. BMP7 is a TGF-beta family protein involved in the development of the kidney, eye, limb, embryonic cloaca, urinary bladder, external genitalia, prostate gland, and other organs. Restricted to the cytoplasm, Cre-ER^{T2} can only gain access to the nuclear compartment after exposure to tamoxifen. Heterozygous mice are viable and fertile, while homozygous mice die within 4-11 days of age due to kidney failure. When these mice are bred with mice containing loxP-flanked sequence, tamoxifen-inducible, Cre-mediated recombination will result in deletion of the floxed sequences in the Cre-expressing cells of the offspring. When activated, cre expression in these mice recapitulates the expression pattern of the endogenous *Bmp7* gene in tissues such as mesonephric, urethral, intestinal, lung and periocular mesenchyme.

Development

Expression Data

Control Suggestions

Genetics

Bmp7^{tm1.1(cre/ERT2)}Grsh

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:[Bmp7](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred to wildtype (noncarrier) mice from the colony or C57BL/6NJ inbred mice Stock No. [005304](#)). Homozygous mice die within 4-11 days of age due to kidney failure.

[Additional Breeding and Husbandry Support](#)

Mating System

Wild-type x Heterozygote

Heterozygote x Wild-type

Citation

When using the Bmp7-CreERT2 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #029312 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 Bmp7<tm1.1(cre/ERT2)Grsh>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6N(Cg)-Bmp7<tm1.1(cre/ERT2)Grsh>/J Frozen Embryo	\$2595.00
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