



B6J.B6NTAK (C3H)1.2^{lin}/J

Stock No: 028416 | BK β 2 floxed

Congenic, Targeted Mutation



CRYORECOVERY

PLACE ORDER

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Overview

Also Known As: BK β 2 floxed

BK β 2 floxed mice possess *loxP* sites flanking exon 1 of the *Kcnmb2* gene, making this strain useful for studying the regulation of BK channel activation.

Donating Investigator

Christopher J. Lingle, Washington University School of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

Kcnmb2^{tm1.1}Clin

Allele Type

Gene Symbol

Gene Name

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

Kcnmb2

potassium large conductance calcium-activated channel, subfamily M, beta member 2

VIEW GENETICS

RESEARCH APPLICATIONS

Cell Biology Research

Neurobiology Research

Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

BK β 2 floxed mutant mice possess *loxP* sites flanking exon 1 of potassium large conductance calcium-activated channel, subfamily

M, beta member 2 (*Kcnmb2*) gene, which includes the coding sequence of the $\beta 2$ subunit N terminus. KCNMB2 encodes the regulatory $\beta 2$ subunit of the calcium activated potassium KCNMA1 channel, which produces inactivation of BK channels. In adrenal chromaffin cells, this subunit also shifts the activation range of $\beta 2$ -containing BK channels to more negative voltages, thereby enhancing afterhyperpolarizations and helping sustain repetitive firing. *BK $\beta 2$* floxed mice that are homozygous for this allele are viable and fertile. When bred to mice that express tissue-specific Cre recombinase, resulting offspring will have first exon and start codon deleted in cre-expressing tissues.

+ Development

+ Control Suggestions

+ Selected References

- Genetics

+ *Kcnmb2*^{tm1.1}Clin

- Disease/Phenotype

+ Disease Terms

+ Research Areas By Genotype

+ Mammalian Phenotype Terms by Genotype

+ References

- Technical Support

C H A T O  F L I N E

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:[Kcnmb2](#)^{tm1.1}Clin

[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 *BK $\beta 2$* floxed mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #028416 in your Materials and Methods section.

[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	GENOTYPE	PRICE
Cryo Recovery	Heterozygous for Kcnmb2<tm1.1Clin>	\$2,854.50

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a [Dedicated Supply](#) for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

Related Products and Services

Frozen Mouse Embryo	B6J.B6NTac(C3)-Kcnmb2<tm1.1Clin>/J	\$2595.00
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Payment Terms and Conditions

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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