



# C . 1 2 9 P 2 ~~B2m~~ <sup>Ugc</sup> / J

Stock No: 002420 | BALB/c  $\beta_2m$  KO

Congenic, Targeted Mutation



CRYO RECOVERY

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: BALB/c  $\beta_2m$  KO

These *B2m* knock-out mice exhibit little if any MHC class I protein expression on the cell surface.

Donating Investigator

Dr. Derry Roopenian, The Jackson Laboratory

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## GENETIC OVERVIEW

Genetic Background

000651 BALB/cJ

Generation

*B2m<sup>tm1Unc</sup>*

Allele Type

Targeted (Null/Knockout)

Gene Symbol

*B2m*

Gene Name

beta-2 microglobulin

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Metabolism Research

Hematological Research

Internal/Organ Research

Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

### Details

#### Detailed Description

Mice homozygous for the *B2m<sup>tm1Unc</sup>* targeted mutation have little if any MHC class I protein expression on the cell surface. There are few CD8<sup>+</sup> cytotoxic T-cells and under some circumstances a compensatory increase in CD4<sup>+</sup> cytotoxic T-cells. Immune responses involving CD8<sup>+</sup> T-cells are severely deficient providing a model to assess the role of CD8<sup>+</sup> cells and class I MHC in various experimental systems. Other traits of B2M deficient mice include: NK cells deficiency, NK1<sup>+</sup> T cells deficiency and decreased levels of serum Ig. Some forms of lupus autoimmunity are severely reduced. (Christianson, *J Immunol* 156:4932-9, 1996).

Hemachromatosis has been noted in certain genetic backgrounds (Rothenberg BE, Voland JR, *Proc Natl Acad Sci USA* 93:1529-34, 1996). *In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. This is the case for the strain above. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.*

[+ Development](#)

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[+ Control Suggestions](#)

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[+ Selected References](#)

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[- Genetics](#)

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[+  \$B2m^{tm1Unc}\$](#)

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[- Disease/Phenotype](#)

[+ Disease Terms](#)

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[+ Research Areas By Genotype](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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## Genotyping Protocols

Standard PCR: [B2m<sup>tm1Unc</sup>](#)

Standard PCR: [B2m<sup>tm1Unc</sup>](#)

[Genotyping resources and troubleshooting](#)

## Breeding Considerations

When held in a live colony, this  $B2m^{tm1Unc}$  strain was maintained by mating homozygous siblings. Expected coat color from breeding: Albino

[Additional Breeding and Husbandry Support](#)

## Appearance

albino

Related Genotype:  $Tyr^c/Tyr^c$

## Citation

When using the BALB/c  $\beta$ -m KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002420 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 or Wildtype for B2m<tm1Unc>	\$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	<a href="#">C.129P2(B6)-B2m&lt;tm1Unc&gt;/J</a>	\$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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## ➔ Terms Of Use

### Terms of Use

[General Terms and Conditions](#)

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Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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## ☐ Related Strains

All

By Allele

By Gene

By Collection

All Related Strains



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