

MRL.129P2(B6)-*B2m^{tm1Unc}*/J

Stock No: 002453 | MRL β_2 m KO

 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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Donating Investigator

Dr. Derry Roopenian, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background

Generation

000486 MRL/MpJ

B2m^{tm1Unc}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

B2m

beta-2 microglobulin

VIEW GENETICS

RESEARCH APPLICATIONS

Hematological Research

Internal/Organ Research

Immunology, Inflammation and Autoimmunity Research

Research Tools

Metabolism 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

Mice homozygous for the $B2m^{tm1Unc}$ targeted mutation have little if any MHC class I protein expression on the cell surface. There are few $CD8^+$ cytotoxic T-cells and under some circumstances a compensatory increase in $CD4^+$ cytotoxic T-cells. Immune responses involving $CD8^+$ T-cells are severely deficient providing a model to assess the role of $CD8^+$ cells and class I MHC in various experimental systems. 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

Control Suggestions

Selected References

Genetics

$B2m^{tm1Unc}$

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:[B2m](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

This $B2m^{tm1Unc}$ strain is maintained by mating homozygous siblings. Only homozygous mice may be ordered. Expected coat color from breeding:Albino

[Additional Breeding and Husbandry Support](#)

Citation

When using the MRL β_2m KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002453 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	Homozygous for B2m<tm1Unc>, 1 pair minimum	\$2,854.50

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.

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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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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TOMORROW'S CURES



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