

B6(Cg)-Mir203^{tm1.1Yir}/J
Stock No: **028362** | miR-203^{tm/m}

 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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knockout allele useful in studies of skin cancer.

Donating Investigator

Rui Yi, University of Colorado Boulder

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Mir203^{tm1.1Yir}

Alele Type

Gene Symbol

Gene Name

Targeted (Conditional ready
(e.g. floxed))

Mir203

microRNA 203

VIEW GENETICS

RESEARCH APPLICATIONS

Cell Biology Research

Research Tools

Cancer Research

Dermatology 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

Messenger RNA (mRNA) and microRNA sequencing (miR-Seq) screens of the transcriptome has revealed that *Mir203* (microRNA 203) expression is downregulated in keratinocytes in response to the G12V mutation of *Hras* (a potent driver of tumorigenesis in skin that stimulates clonal expansion in papillomas).

These mice carry a floxed allele of the mouse *Mir203* locus which enables the generation of cre-mediated conditional knockouts.

When crossed with E1a-Cre mice, mice exhibit mild epidermal hyperplasia during skin development and have increased skin tumor burden in the DMBA/TPA skin chemical carcinogenesis model. Loss of *Mir203* expression promotes selection and expansion of tumor-initiating cells. *Mir203* acts to limit the proliferation of skin cells when they are rapidly dividing.

Development

Control Suggestions

Selected References

Genetics

Mir203^{tm1.1Yir}

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:[Mir203](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Heterozygous and homozygous floxed mice are viable and fertile.

[Additional Breeding and Husbandry Support](#)

Mating System

Heterozygote x Heterozygote

Citation

When using the miR-203^{fl/fl} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #028362 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 Mir203<tm1.1Yir>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6(Cg)-Mir203<tm1.1Yir>/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.

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

ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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Yes No