

B6;129-Merk^{tm1Gr1}/J

Stock No: **011122** | mer

 Targeted Mutation

Live mice available in varying quantities. Ask Customer Service for details.

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useful in studying autoimmunity, germ cell development, homeostatic regulation and apoptosis.

Donating Investigator

Greg Lemke, The Salk Institute

H. Shelton Earp, University of North Carolina, Chapel Hill

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GENETIC OVERVIEW

Genetic Background

Generation

F?⁺N1F21
(2018-12-21 00:00:00)

Merk^{tm1Gr1}

Allele Type

Targeted (Null/Knockout)

Gene Symbol

Merk

Gene Name

c-mer proto-oncogene tyrosine kinase

VIEW GENETICS

RESEARCH APPLICATIONS

Apoptosis Research

Immunology, Inflammation and Autoimmunity Research

Sensorineural Research

Reproductive Biology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$236.78 Domestic price for female

V I E W P R I C E L I S T

Details

Detailed Description

Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. In response to endotoxin, homozygotes exhibit an increase in spleen size and a decrease in monocyte response. Retinal photoreceptor epithelial cells fail to phagocytose outer segment membranes resulting in complete photoreceptor degeneration and blindness.

When combined with the mutations *Tyro3^{tm1Gr1}* (Stock No. [007937](#)) and *Axl^{tm1Gr1}* (Stock No. [011121](#)) mice exhibit a lymphoproliferative disorder, autoimmunity, increased apoptosis in multiple tissues, abnormal spermatogenesis and reduced (in females) fertility or infertility (in males).

This mutant mouse strain may be useful in studies of autoimmunity, germ cell development homeostatic regulation and apoptosis.

Development

Control Suggestions

Selected References

Genetics

Mertk^{tm1Gr1}

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

Probe:[Mertk Probe](#)

Separated PCR:[Mertkalternate2](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

While maintaining a live colony, these mice are bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the mer⁻ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #011122 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [FGB29 \(Standard\)](#)

[- Pricing & Availability](#)



Live mice available in varying quantities. Ask Customer Service for details.

Available

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE

AGE	SEX	GENOTYPE	PRICE
Approx 4-8 weeks	Female	Homozygous for Mertk ^{tm1Gr1}	\$236.78
	Male	Homozygous for Mertk ^{tm1Gr1}	\$236.78

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6;129-Mertk<tm1Gr1>/J	\$2595.00
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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

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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