

B6(Cg)-*Sting1*^{tm1.2Camb}/J

Stock No: **025805** | MPYS⁺, STING^{-/-}

 Congenic, Targeted Mutation

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

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and exploring aspects of the tumor microenvironment.

Donating Investigator

John C Cambier, University of Colorado Denver and National Jewish Health

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GENETIC OVERVIEW

Genetic Background

Generation

?+pN2
(2021-03-31 00:00:00)

Sting1^{tm1.2Camb}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Sting1

Gene Name

stimulator of interferon response cGAMP interactor 1

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

Cell Biology Research

Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$255.00 Domestic price for female 4-week

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

Details

Detailed Description

MPYS^{-/-} (STING KO) mice lack exons 3-5 of the transmembrane protein 173 (*Tmem173*) gene. *MPYS* acts as a facilitator of innate immune signaling and interferon beta (IFN β) production through the detection of cytosolic bacterial pathogens and their cyclic dinucleotide metabolites. Mice that are homozygous for this allele are viable and fertile. *MPYS*^{-/-} mice produce less IFN β and interleukin-6 (IL6) after 8 hours of infection with *Listeria monocytogenes* or *Francisella tularensis* than controls, with normal production seen by 24 hours. *MPYS*^{-/-} mice produce more IFN β than the *Sting1*^{goldenticket} mice (Stock No. 017537) which do not produce IFN β after *Listeria monocytogenes* infection.

In 2020, a 48 SNP (single nucleotide polymorphism) panel analysis showed that one of the 43 markers, in the Rd8 gene on Chromosome 1, was segregating. This mutation has been associated with retinal degeneration.

Development

Control Suggestions

Selected References

Genetics

Sting1^{tm1.2Camb}

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: [Tmem173-Alternate 2](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the MPYS⁻, STING⁻ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #025805 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX12 \(Maximum\)](#)

[- 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
4 weeks	Female	Homozygous for Sting1 ^{tm1.2Carrb}	\$255.00
	Male	Homozygous for Sting1 ^{tm1.2Carrb}	\$255.00
5 weeks	Female	Homozygous for Sting1 ^{tm1.2Carrb}	\$255.00
	Male	Homozygous for Sting1 ^{tm1.2Carrb}	\$255.00
6 weeks	Female	Homozygous for Sting1 ^{tm1.2Carrb}	\$255.00
	Male	Homozygous for Sting1 ^{tm1.2Carrb}	\$255.00
7 weeks	Female	Homozygous for Sting1 ^{tm1.2Carrb}	\$255.00
	Male	Homozygous for Sting1 ^{tm1.2Carrb}	\$255.00
8 weeks	Female	Homozygous for Sting1 ^{tm1.2Carrb}	\$255.00
	Male	Homozygous for Sting1 ^{tm1.2Carrb}	\$255.00
9 weeks	Female	Homozygous for Sting1 ^{tm1.2Carrb}	\$255.00
	Male	Homozygous for Sting1 ^{tm1.2Carrb}	\$255.00
10 weeks	Female	Homozygous for Sting1 ^{tm1.2Carrb}	\$255.00
	Male	Homozygous for Sting1 ^{tm1.2Carrb}	\$255.00
11 weeks	Female	Homozygous for Sting1 ^{tm1.2Carrb}	\$255.00
	Male	Homozygous for Sting1 ^{tm1.2Carrb}	\$255.00
12 weeks	Female	Homozygous for Sting1 ^{tm1.2Carrb}	\$255.00
	Male	Homozygous for Sting1 ^{tm1.2Carrb}	\$255.00

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6(Cg)-Sting1 ^{tm1.2Carrb} /J Frozen Embryo	\$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.

Terms Of Use

TERMS OF USE

[General Terms and Conditions](#)

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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