

**B6.129S6-Map3k4<sup>tm1Flv</sup>/J**

Stock No: **008375**

 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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reduced p38 (Mapk14, mitogen-activated protein kinase 14) activity and defective interferon gamma (IFNG) synthesis. The targeted gene is not expressed in T lymphocytes, as determined by Western blot. Heterozygotes are viable and fertile. This strain may be useful in studies of interferon gamma (IFNG)-producing pathways, as well as development.

### Donating Investigator

Dr. Richard A. Flavell, Yale University School of Medicine

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## GENETIC OVERVIEW

Genetic Background

Generation

*Map3k4<sup>tm1Flv</sup>*

**Alele Type**

Targeted (Null/Knockout)

**Gene Symbol**

*Map3k4*

**Gene Name**

mitogen-activated protein kinase kinase kinase 4

VIEW GENETICS

## RESEARCH APPLICATIONS

Developmental Biology Research

Immunology, Inflammation and Autoimmunity 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

Homozygous mice carrying this targeted mutation develop highly penetrant neural tube defects and are embryonic lethal. CD4 T cells from homozygotes have reduced p38 (*Mapk14*, mitogen-activated protein kinase 14) activity and defective interferon gamma (*Ifn $\gamma$* ) synthesis. The targeted gene is not expressed in T lymphocytes, as determined by Western blot. Heterozygotes are viable and fertile. This strain may be useful in studies of interferon gamma (IFNG)-producing pathways, as well as development.

#### Development

#### Selected References

### Genetics

#### *Map3k4*<sup>tm1Flv</sup>

### Disease/Phenotype

#### Disease Terms

#### Research Areas By Phenotype

#### Mammalian Phenotype Terms by Genotype

#### References

## Technical Support

### CONTACT TECHNICAL SUPPORT

#### Genotyping Protocols

Standard PCR:[Map3k4](#)

[Genotyping resources and troubleshooting](#)

#### Breeding Considerations

When maintained as a live colony, heterozygotes may be bred. Homozygotes are embryonic lethal.

[Additional Breeding and Husbandry Support](#)

#### Citation

When using the B6.129S6-*Map3k4*<sup>tm1Flv</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008375 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
<a href="#">Cryo Recovery</a>	Heterozygous or Wild-Type for <i>Map3k4</i> <tm1Flv>	\$2,854.50

#### RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	B6.129S6- <i>Map3k4</i> <tm1Flv>/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.

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#### TERMS OF USE

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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](mailto:TechTran@jax.org)

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### 🔵 Related Strains

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