

B6;129S-Maob^{tm1Shih}/J

Stock No: **014133**

 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

Jean Shih, University of Southern California

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GENETIC OVERVIEW

Genetic Background

Generation

Maob^{tm1Shih}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Maob

monoamine oxidase B

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

Neurobiology 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

In this strain, a neomycin resistance (neo) cassette replaces exon 6 of the endogenous X-linked monoamine oxidase B (*Maob*) gene, abolishing gene function. *Maob* deficient mice are viable, fertile, and normal in size. *Maob* is a mitochondrial enzyme which oxidizes neurotransmitters and dietary amines. These mutants lack MAOB activity in the brain and liver resulting in increased levels of phenylethylamine. These mice exhibit increased reactivity to stress and increased aggression. These mice also show decreased susceptibility to the neurodegenerative effects of MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine), which induces Parkinson's disease-like symptoms when administered to mice. These mice may be useful for studying neurodegeneration and MAOB-related behaviors.

Development

Control Suggestions

Selected References

Genetics

Maob^{tm1Shih}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

- 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:[Maob](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous females may be bred to hemizygous males.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6;129S-*Maob*^{tm1Shih}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #014133 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	X linked Heterozygous Females and males wildtype for <i>Maob</i> <tm1Shih>, 1 pair minimum	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6;129S-Maob<tm1Shih>/J

\$2595.00

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