

C3H/HeO_uJ-*Maoa*^{Tg(H2-K1-Ifnb1)8Seif} /J

Stock No: **014132**

 Coisogenic, 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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exons 2-3 and abolishing *Maoa* gene function. These mice may be useful for studying MAOA-related aggression and abnormal development of neural circuits under excess serotonin.

Donating Investigator

Dr. Isabelle Seif, Centre Natl de la Recherche Scientifique

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GENETIC OVERVIEW

Genetic Background

Generation

Maoa^{Tg(H2-K1-Ifnb1)8Seif}

Alele Type

Transgenic (Null/Knockout, Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Developmental Biology 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

These *H2-IFNB* transgenic mice have the murine interferon beta 1 (*ifnb1*) coding sequence driven by a fragment of the murine histocompatibility 2, K1, K region (*H2-K1*) promoter. The transgene integrated into the X-linked monoamine oxidase A (*Maoa*) gene, replacing exons 2-3 and abolishing *Maoa* gene function. Hemizygous males and homozygous females are viable, and fertile until at least 6 months. MAOA is a mitochondrial enzyme that oxidizes monoamine neurotransmitters and dietary monoamines. These mutants lack MAOA activity resulting in increased levels of serotonin, dopamine, and norepinephrine. Excess serotonin in these mice causes abnormal development of certain neural circuits, such as in the barrelfield. During the first two postnatal weeks, these mice successively exhibit increased trembling and head nodding, frantic running and falling over. Adult males exhibit increased aggression towards subordinate males, male intruders, and females during courtship. These changes are not attributable to expression of the *ifnb1* transgene. These mice may be useful for studying MAOA-related aggression and abnormal development of neural circuits under excess serotonin.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Maoa^{Tg(H2-K1-ifnb1)8Seif}

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:[Maoa](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

Citation

When using the C3H/HeO_uJ-*Maoa*^{Tg(H2-K1-Irfb1)8Seif}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #014132 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 females and wildtype males for Maa<Tg(H2-K1-lfmb1)8Seif>	\$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	C3H/HeOuj-Maa<Tg(H2-K1-lfmb1)8Seif>/J	\$2595.00

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