

B6.129S7-*Atoh1*^{tm2Hzo}/J

Stock No: **005970** | Math1 KO

 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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the brain stem. They also display perinatal lethality.

Donating Investigator

Huda Zoghbi, Baylor College of Medicine

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GENETIC OVERVIEW

Genetic Background Generation

Atoh1^{tm2Hzo}

Alele Type	Gene Symbol	Gene Name
Targeted (Reporter, Null/Knockout)	<i>Atoh1</i>	atonal bHLH transcription factor 1

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research
Research Tools
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

Mice that are heterozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. Homozygous mutant mice have a perinatal lethal phenotype and die shortly after birth. No gene product (protein) is detected in resting chondrocytes by immunohistochemical analysis of embryonic age 18.5 homozygotes. Beta-galactosidase X-gal staining of neural tissue from embryonic day 14.5 and newborn (postnatal day 0) aged homozygous and heterozygous mice mimicks the endogenous expression pattern. Mice homozygous for this mutation exhibit a phenotype similar to the phenotype observed in mice homozygous for the null (loss of function) targeted mutation. Homozygotes lack cerebellar granule neurons, cochlear and ventricular hair cells, and the pontine nuclei in the brain stem. This mutant mouse strain may be useful in studies of brain and inner ear development.

+ Development

+ Expression Data

+ Control Suggestions

+ Selected References

- Genetics

+ *Atoh1*^{tm2Hzo}

- 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

Separated MCA:[Atoh](#)

Separated PCR:[Atoh](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice are bred as heterozygotes due to the homozygous perinatal lethal phenotype.

[Additional Breeding and Husbandry Support](#)

Mating System

+/+ sibling x Heterozygote

Citation

When using the Math1 KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #005970 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 or Wild-type for Atoh1<tm2Hzo>	\$2,854.50

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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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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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