

B6.129X1(Cg)-Shh^{tm6Amc}/J

Stock No: 008466

 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 function of Shh ligand in an *in vivo* context, such as during neural tube patterning.

Donating Investigator

Andrew P McMahon, University of Southern California

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GENETIC OVERVIEW

Genetic Background

Generation

Shh^{tm6Amc}

Alele Type

Targeted (Reporter,
Null/Knockout)

Gene Symbol

Shh

Gene Name

sonic hedgehog

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

Neurobiology Research

Research Tools

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

While mice heterozygous for the *Shh::gfp* allele are viable, fertile, and indistinguishable from wild-type littermates, homozygotes are stillborn and show developmental defects consistent with reduced Sonic Hedgehog (Shh) signaling. The *Shh::gfp* mutation has GFP inserted into the endogenous Shh processing site (and adds a new processing site after the GFP). Thus normal Shh processing leads to secretion of the GFP-tagged Shh signaling ligand (N-Shh::GFPp) instead of wild-type Shh; with N-Shh::GFPp retaining both GFP and lipid modifications post-processing. Biochemical and cellular analysis indicates that Shh::GFP undergoes correct processing to produce active, bi-lipidated signaling peptides. Shh::GFP processing is, however, less efficient and results in reduced levels of Shh::GFP compared with wild-type Shh protein. These *Shh::gfp* mice produce bioactive, fluorescently labeled Shh from the endogenous Shh locus and may be useful to directly visualize the function of Shh ligand in an *in vivo* context, such as during neural tube patterning. In addition, these mice may also be useful in conjunction with other Sonic Hedgehog (Shh) mutant strains including Shh knockout mice (Stock No. 003318), Shh-floxed mice (Stock No. 004293), Shh-GFP/cre mice (Stock No. 005622), and Shh-creERT2 mice (Stock No. 005623).

Development

Expression Data

Selected References

Genetics

Shh^{tm6Amc}

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:[Shh](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred together or to wildtype littermates.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.129X1(Cg)-*Shh*^{tm6Amc}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008466 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

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Domestic**International**

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT

DESCRIPTION

PRICE

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6.129X1(Cg)-Shh<tm6Amc>/J Frozen Embryo

\$2595.00

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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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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org[Related Strains](#)

All

By Allele

By Gene

By Collection



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