



B6.129X1S6Amc/J

Stock No: 008466

Targeted Mutation



CRYO RECOVERY

P L A C E O R D E R

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Overview

These *Shh::gfp* mice harbor a targeted mutation of the Sonic hedgehog (*Shh*) locus that secretes, after normal *Shh* processing, a bioactive GFP-tagged *Shh* signaling ligand (N-*Shh::GFPp*). These *Shh::gfp* may be useful to directly visualize the function of *Shh* ligand in an *in vivo* context, such as during neural tube patterning.

Donating Investigator

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GENETIC OVERVIEW

Genetic Background Generation

Shh^{tm6Amc}

Allele Type	Gene Symbol	Gene Name
Targeted (Reporter, Null/Knockout)	<i>Shh</i>	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[VIEW PRICE LIST](#)

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](#)

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[- Genetics](#)

[+ *Shh^{tm6Amc}*](#)

[- Disease/Phenotype](#)

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[+ Research Areas By Genotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

T E C H N I C A L S P P O R T C H A T

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^{tm6Amc}](#)

[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

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	GENOTYPE	PRICE
Cryo Recovery	Heterozygous or Wild-type for Shh<tm6Amc>	\$2,854.50

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a [Dedicated Supply](#) for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

Related Products and Services

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

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Terms of Use

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