

B6.Cg-Shh ^{*tm1(EGFP/cre)Cjt*} /J

Stock No: **005622** | Shhgfpcre

 Congenic, Targeted Mutation

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buds of embryos aged embryonic day 10 to 12. Mice homozygous for the mutation develop a limited limb skeleton and lack digit 2. This mutant mouse strain may be useful in studies of limb patterning and development.

Donating Investigator

Clifford J Tabin, Harvard Medical School

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

N8F5

(2021-04-06 00:00:00)

Shh^{*tm1(EGFP/cre)Cjt*}

Alele Type

Targeted (Recombinase-expressing, Null/Knockout)

Gene Symbol

Shh

Gene Name

sonic hedgehog

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$278.00 Domestic price for female 4-week

348.51 Domestic price for breeder pair

V I E W P R I C E L I S T

– Details

– Detailed Description

This strain expresses a fusion product involving Enhanced Green Fluorescent Protein (EGFP) and Cre recombinase from the endogenous *Shh* locus. EGFP and *cre* expression are consistent with the endogenous gene. Fluorescence is detected in the distal posterior region of the limb buds of embryos aged embryonic day 10 to 12 and colocalizes with the endogenous gene product (mRNA).

The donating investigator reports that it is not uncommon for a mosaic expression pattern to be exhibited when the allele is inherited through the female germline. It is recommended that this allele be passed through the male germline when conducting experiments involving cre-induced recombination. Mice homozygous for the mutation develop a limited limb skeleton and lack digit 2. Homozygous mice are not viable or fertile. Heterozygous mutant mice are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities.

This mutant mouse strain may be useful in studies of limb patterning and development.

+ Development

+ Expression Data

+ Control Suggestions

+ Selected References

– Genetics

+ *Shh*^{tm1(EGFP/cre)}Cjt

– 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](#)

Separated MCA:[Shh tm1\(EGFP/cre\)Cjt](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

New Diet as of March 2015: Lab Diet® 5K0Q (6% fat)

Breeding Considerations

When maintaining a live colony, these mice are bred as heterozygotes. Homozygous mice are not viable.

[Additional Breeding and Husbandry Support](#)

Mating System

Wild-type x Heterozygote

Heterozygote x Wild-type

Citation

When using the [Shhgfpcr](#) mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #005622 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX10 \(Standard\)](#)

– Pricing & Availability



Live mice available in varying quantities. Ask Customer Service for details.

Available

Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}	\$278.00
	Male	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}	\$278.00
4 weeks	Female	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}	\$78.51
	Male	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}	\$78.51
5 weeks	Female	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}	\$278.00
	Male	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}	\$278.00
5 weeks	Female	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}	\$78.51
	Male	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}	\$78.51
6 weeks	Female	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}	\$278.00
	Male	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}	\$278.00
6 weeks	Female	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}	\$78.51
	Male	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}	\$78.51
7 weeks	Female	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}	\$278.00
	Male	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}	\$278.00
7 weeks	Female	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}	\$78.51
	Male	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}	\$78.51
8 weeks	Female	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}	\$278.00
	Male	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}	\$278.00
8 weeks	Female	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}	\$78.51
	Male	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}	\$78.51
9 weeks	Female	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}	\$278.00
	Male	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}	\$278.00
9 weeks	Female	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}	\$78.51
	Male	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}	\$78.51
10 weeks	Female	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}	\$278.00
	Male	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}	\$278.00
10 weeks	Female	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}	\$78.51
	Male	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}	\$78.51
11 weeks	Female	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}	\$278.00
	Male	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}	\$278.00

11 weeks	SEX	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}	\$78.51
	Male	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}	\$78.51
12 weeks	Female	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}	\$278.00
	Male	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}	\$278.00
12 weeks	Female	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}	\$78.51
	Male	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}	\$78.51

BREEDER PAIR			
SEX	GENOTYPE		PRICE
Female	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}		\$348.51
Male	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}		
Female	Wild-type for Shh ^{tm1(EGFP/cre)Cjt}		\$348.51
Male	Heterozygous for Shh ^{tm1(EGFP/cre)Cjt}		

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	B6.Cg-Shh<tm1(EGFP/cre)Cjt>/J Frozen Embryo	\$2595.00

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Email: TechTran@jax.org

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