

STOCK Tg(Sox9-cre/ERT2)1Msan/J

Stock No: 018829 | Sox9CreER^{T2}

◆ Transgenic

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

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are suitable for performing cre-recombination in pancreatic ductal cells and their progenitors.

Donating Investigator

Maike Sander, University of California San Diego

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GENETIC OVERVIEW

Genetic Background

Generation

?+pN3F13
(2021-04-07 00:00:00)

Tg(Sox9-cre/ERT2)1Msan

Alele Type

Transgenic (Recombinase-expressing, Inducible)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$278.00 Domestic price for female 4-week

356.51 Domestic price for breeder pair

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

Details

Detailed Description

Mice hemizygous for the BAC *Sox9-creER^{T2}* transgene are viable and fertile. *Cre-ER^{T2}* expression is directed by the murine SRY-box containing gene 9 (*Sox9*) promoter/enhancer regions in early pancreatic progenitor and ductal cells. Restricted to the cytoplasm, *Cre-ER^{T2}* can only gain access to the nuclear compartment after exposure to tamoxifen. When these mice are bred with mice containing *loxP*-flanked sequence, tamoxifen-inducible, *Cre*-mediated recombination will result in deletion of the floxed sequences in the *cre*-expressing cells of the offspring.

For example, when bred to B6.129X1-*Gt(ROSA)26Sor^{tm1(EYFP)Cos}*/J mice (Stock No. [006148](#)), tamoxifen induction in the offspring results in fluorescent labeling of pancreatic progenitor cells such as endocrine, acinar, and duct cells, until birth, with weak fluorescence in non-β endocrine cells for 3 weeks after birth. Fluorescence is also seen in 70% of pancreatic ductal cells in adults.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(*Sox9-cre/ERT2*)1Msan

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: [Generic Cre](#)

Separated PCR: [Tg\(Sox9-cre/ERT2\)1Msan-Alternate 3](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred to wildtype (noncarrier) mice from the colony.

[Additional Breeding and Husbandry Support](#)

Mating System

Hemizygote x Noncarrier

Noncarrier x Hemizygote

Citation

When using the Sox9CreER^{T2} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #018829 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX18 \(Maximum\)](#)

[- Pricing & Availability](#)



Available

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

LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Hemizygous for Tg(Sox9-cre/ERT2)1Msan	\$278.00
	Male	Hemizygous for Tg(Sox9-cre/ERT2)1Msan	\$278.00
4 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
5 weeks	Female	Hemizygous for Tg(Sox9-cre/ERT2)1Msan	\$278.00
	Male	Hemizygous for Tg(Sox9-cre/ERT2)1Msan	\$278.00
5 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
6 weeks	Female	Hemizygous for Tg(Sox9-cre/ERT2)1Msan	\$278.00
	Male	Hemizygous for Tg(Sox9-cre/ERT2)1Msan	\$278.00
6 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
7 weeks	Female	Hemizygous for Tg(Sox9-cre/ERT2)1Msan	\$278.00
	Male	Hemizygous for Tg(Sox9-cre/ERT2)1Msan	\$278.00
7 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
8 weeks	Female	Hemizygous for Tg(Sox9-cre/ERT2)1Msan	\$278.00
	Male	Hemizygous for Tg(Sox9-cre/ERT2)1Msan	\$278.00
8 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
9 weeks	Female	Hemizygous for Tg(Sox9-cre/ERT2)1Msan	\$278.00
	Male	Hemizygous for Tg(Sox9-cre/ERT2)1Msan	\$278.00
9 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
10 weeks	Female	Hemizygous for Tg(Sox9-cre/ERT2)1Msan	\$278.00
	Male	Hemizygous for Tg(Sox9-cre/ERT2)1Msan	\$278.00
10 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
11 weeks	Female	Hemizygous for Tg(Sox9-cre/ERT2)1Msan	\$278.00
	Male	Hemizygous for Tg(Sox9-cre/ERT2)1Msan	\$278.00
11 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
12 weeks	Female	Hemizygous for Tg(Sox9-cre/ERT2)1Msan	\$278.00

	SEX	Genotype	PRICE
12 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51

BREEDER PAIR			
SEX	GENOTYPE		PRICE
Female	Hemizygous for Tg(Sox9-cre/ERT2)1Msan		\$356.51
Male	Noncarrier		
Female	Noncarrier		\$356.51
Male	Hemizygous for Tg(Sox9-cre/ERT2)1Msan		

RELATED PRODUCTS AND SERVICES			
Frozen Mouse Embryo	STOCK Tg(Sox9-cre/ERT2)1Msan/J Frozen Embryo		\$2595.00

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Email: TechTran@jax.org

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