

**B6.Cg-Edil3** <sup>Tg(Sox2-cre)1Amc</sup> /J

Stock No: **008454** | Sox2Cre

 Congenic, Transgenic

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## Donating Investigator

Valeri Zimmerman, University of Cincinnati

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## GENETIC OVERVIEW

### Genetic Background

### Generation

**N11+pN1F2**  
(2020-06-11 00:00:00)

**Edil3**<sup>Tg(Sox2-cre)1Amc</sup>

### Allele Type

Transgenic (Recombinase-expressing, Null/Knockout)

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

These transgenic mice express Cre recombinase under the control of the mouse SRY-box containing gene 2 promoter. The transgene integrated into an intron of *Edil3* (EGF-like repeats and discoidin I-like domains 3). The insertion results in a functional knock-out of *Edil3* in homozygous mice. Mice hemizygous for the Sox2Cre transgene are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. These transgenic mice express Cre recombinase under the control of the mouse SRY-box containing gene 2 promoter. When these transgenic mice are bred with mice containing *loxP*-flanked sequences, Cre-mediated recombination will result in deletion of the floxed sequences in Sox2-expressing tissues in the offspring. Specifically, Cre recombinase activity is detected in the epiblast cells at embryonic day 6.5, with little or no activity in other cells at gastrulation. Some activity is also detected in extra embryonic derivatives of the epiblast, the yolk sac mesoderm and amnion. No Cre recombinase activity is detected in primitive endoderm derived tissues, visceral endoderm. The phenotype of homozygous mice has not been characterized to date (April 2011). These Sox2Cre transgenic may be useful for generating epiblast-derived specific conditional mutations. Transgene expression is active in the female germline. Offspring arising from a hemizygous transgenic female will exhibit Cre recombinase activity, regardless of genotype. This maternal inheritance effect, due to female germline expression of the transgene, can provide a rapid and efficient breeding mechanism for generating null animals.

*In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.*

### Development

### Expression Data

### Control Suggestions

### Selected References

## Genetics

### *Edil3*<sup>Tg(Sox2-cre)</sup>1Amc

## – Disease/Phenotype

+ [Disease Terms](#)

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+ [Research Areas By Phenotype](#)

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+ [Mammalian Phenotype Terms by Genotype](#)

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+ [References](#)

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## – 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:[EdiI3](#)

Probe:[EdiI3-Probe](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred with wildtype (noncarrier) siblings or to C57BL/6J inbred mice (Stock No. [000664](#)). The phenotype of homozygous mice has not been characterized to date (April 2011). Of note, transgene expression is active in the female germline. Offspring arising from a hemizygous transgenic female will exhibit Cre recombinase activity, regardless of phenotype.

### [Additional Breeding and Husbandry Support](#)

#### Mating System

Noncarrier x Hemizygote

Hemizygote x Noncarrier

#### Citation

When using the Sox2Cre mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008454 in your Materials and Methods section.

### Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX18 \(Maximum\)](#)

## – Pricing & Availability



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

Available

# Domestic Internatio

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$278.00
	Male	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$278.00
4 weeks	Female	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$78.51
	Male	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$78.51
5 weeks	Female	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$278.00
	Male	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$278.00
5 weeks	Female	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$78.51
	Male	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$78.51
6 weeks	Female	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$278.00
	Male	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$278.00
6 weeks	Female	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$78.51
	Male	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$78.51
7 weeks	Female	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$278.00
	Male	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$278.00
7 weeks	Female	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$78.51
	Male	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$78.51
8 weeks	Female	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$278.00
	Male	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$278.00
8 weeks	Female	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$78.51
	Male	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$78.51
9 weeks	Female	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$278.00
	Male	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$278.00
9 weeks	Female	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$78.51
	Male	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$78.51
10 weeks	Female	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$278.00
	Male	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$278.00
10 weeks	Female	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$78.51
	Male	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$78.51
11 weeks	Female	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$278.00
	Male	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1A<sup>mc</sup></sup>	\$278.00

11 weeks	SEX	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1Amc</sup>	\$78.51
	Male	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1Amc</sup>	\$78.51
12 weeks	Female	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1Amc</sup>	\$278.00
	Male	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1Amc</sup>	\$278.00
12 weeks	Female	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1Amc</sup>	\$78.51
	Male	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1Amc</sup>	\$78.51

BREEDER PAIR			
SEX	GENOTYPE		PRICE
Female	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1Amc</sup>		\$356.51
Male	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1Amc</sup>		
Female	Noncarrier for Edil3 <sup>Tg(Sox2-cre)1Amc</sup>		\$356.51
Male	Hemizygous for Edil3 <sup>Tg(Sox2-cre)1Amc</sup>		

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Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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