

B6.FVB-Tg(Acta2-cre)1Rkl/J

Stock No: 029925

 Congenic, Transgenic

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

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Donating Investigator

Raghu Kalluri, University of Texas MD Anderson Cancer Center

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GENETIC OVERVIEW

Genetic Background

Generation

N12+pN2F1
(2019-01-25 00:00:00)

Tg(Acta2-cre)1Rkl

Alele Type

Transgenic (Recombinase-expressing)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Cancer Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$255.00 Domestic price for female 4-week

333.51 Domestic price for breeder pair

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

Details

Detailed Description

These aSMA-Cre transgenic mice express Cre recombinase under control of an extended 5.2kb mouse *Acta2* (actin, alpha 2, smooth muscle, aorta) gene promoter that includes the *Acta2* promoter plus exon 1, intron 1, and part of exon 2. Cre activity is detected in a few interstitial renal cells of healthy mice. In a model of experimentally induced renal fibrosis (by unilateral ureteral obstruction), *Acta2* expressing fibroblasts that accumulate in fibrotic kidney interstitium exhibit Cre activity. The donating investigator reports Cre activity is detected in *Acta2* expressing myofibroblasts with minimal Cre activity in striated muscle.

Hemizygotes are viable and fertile. Homozygous viability/fertility has not been tested (October 2017).

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

Tg(Acta2-cre)1Rkl

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: [Tg\(Acta2-cre\)1Rkl-Alternate 2](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred together, to wildtype siblings, or to C57BL/6J inbred mice (Stock No. [000664](#)). The donating investigator has not attempted to make the strain homozygous. Homozygous viability/fertility has not been tested (October 2017).

[Additional Breeding and Husbandry Support](#)

Mating System

Hemizygous x C57BL/6J (000664)

Hemizygote x Noncarrier

Noncarrier x Hemizygote

C57BL/6J (000664) x Hemizygote

Citation

When using the B6.FVB-Tg(Acta2-cre)1Rkl/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #029925 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 **International**

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Hemizygous for Tg(Acta2-cre)1Rkl	\$255.00
	Male	Hemizygous for Tg(Acta2-cre)1Rkl	\$255.00
4 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
5 weeks	Female	Hemizygous for Tg(Acta2-cre)1Rkl	\$255.00
	Male	Hemizygous for Tg(Acta2-cre)1Rkl	\$255.00
5 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
6 weeks	Female	Hemizygous for Tg(Acta2-cre)1Rkl	\$255.00
	Male	Hemizygous for Tg(Acta2-cre)1Rkl	\$255.00
6 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
7 weeks	Female	Hemizygous for Tg(Acta2-cre)1Rkl	\$255.00
	Male	Hemizygous for Tg(Acta2-cre)1Rkl	\$255.00
7 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
8 weeks	Female	Hemizygous for Tg(Acta2-cre)1Rkl	\$255.00
	Male	Hemizygous for Tg(Acta2-cre)1Rkl	\$255.00
8 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
9 weeks	Female	Hemizygous for Tg(Acta2-cre)1Rkl	\$255.00
	Male	Hemizygous for Tg(Acta2-cre)1Rkl	\$255.00
9 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
10 weeks	Female	Hemizygous for Tg(Acta2-cre)1Rkl	\$255.00
	Male	Hemizygous for Tg(Acta2-cre)1Rkl	\$255.00
10 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
11 weeks	Female	Hemizygous for Tg(Acta2-cre)1Rkl	\$255.00
	Male	Hemizygous for Tg(Acta2-cre)1Rkl	\$255.00
11 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
12 weeks	Female	Hemizygous for Tg(Acta2-cre)1Rkl	\$255.00
	Male	Hemizygous for Tg(Acta2-cre)1Rkl	\$255.00
12 weeks	Female	Noncarrier	\$78.51

SEX

Noncarrier

\$78.51

BREEDER PAIR

SEX	GENOTYPE	PRICE
Female	Hemizygous for Tg(Acta2-cre)1Rkl	\$333.51
Male	Noncarrier	
Female	Noncarrier	\$333.51
Male	Hemizygous for Tg(Acta2-cre)1Rkl	

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.FVB-Tg(Acta2-cre)1Rkl/J	\$2595.00
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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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