

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

Stock No: **029921** | aSMA-TK on B6

 Congenic, Transgenic

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

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Donating Investigator

Raghu Kalluri, University of Texas MD Anderson Cancer Center

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(Acta2-TK*)1Rkl

Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Cancer Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

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

Details

Detailed Description

These transgenic mice express a truncated *TK*, herpes simplex 1 virus thymidine kinase, gene 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. This strain allows Ganciclovir-inducible ablation of proliferating cells (myofibroblasts) that express *Acta2*. In vivo efficacy assessment (by immunofluorescence) of the aSMA-tk transgene in kidney tissue demonstrated dose-dependent Ganciclovir treatment (intraperitoneal injection) ablation of aSMA+ cells (proliferating interstitial myofibroblasts), with approximately 50% ablation. During backcrossing, the Y chromosome may not have been fixed to the C57BL/6J genetic background.

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.

The aSMA-TK transgenic mice are also available on a BALB/c congenic background (Stock No. [031155](#)).

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Acta2-TK*)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\(Acta2-TK*\)1Rkl](#)

[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

Hemizygote x Noncarrier

Noncarrier x Hemizygote

Citation

When using the aSMA-TK on B6 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #029921 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](#)



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CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or non-carrier for Tg(Acta2-TK*)1Rkl	\$2,854.50

RELATED PRODUCTS AND SERVICES

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

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