

C.FVB-Tg(Cspg4-TK*)1Rkl/J

Stock No: 031156 | NG2-tk on BALB/c

 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(Cspg4-TK*)1Rkl

Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research
Research Tools

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 NG2-tk transgenic mice express a truncated *TK*, herpes simplex 1 virus thymidine kinase, gene under control of the mouse *Cspg4* (chondroitin sulfate proteoglycan 4) gene promoter. This strain allows Ganciclovir-inducible ablation of proliferating cells (pericytes) that express *Cspg4*. In vitro efficacy assessment of the NG2-tk transgene (immunofluorescence) demonstrated dose-dependent Ganciclovir treatment ablates 75% of *Cspg4* expressing cells (pericytes). In vivo efficacy assessment of the NG2-tk transgene (immunofluorescence) in kidney demonstrated dose-dependent Ganciclovir treatment results in approximately 55% reduction of *Cspg4* expressing interstitial cells (pericytes). Hemizygotes are viable and fertile. Homozygous viability/fertility has not been tested (October 2017). During backcrossing, the Y chromosome may not have been fixed to the BALB/cAnNCrl genetic background. The transgene has been found to contain neo.

The NG2-tk transgenic mice are also available on a C57BL/6J congenic background (Stock No. [029922](#)).

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Cspg4-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\(Cspg4-TK*\)1Rkl](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred together, to wildtype siblings, or to BALB/cByJ inbred mice (Stock No. [001026](#)). 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 NG2-tk on BALB/c mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #031156 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](#)



Cryo
Recovery

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

Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

Cryorecovery - Domestic Pricing

SERVICE/PRODUCT

DESCRIPTION

PRICE

Related Products and Services

Frozen Mouse Embryo

C.FVB-Tg(Cspg4-TK*)1Rkl/J

\$2595.00

Payment Terms and Conditions

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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Phone: 207-288-6470

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