

FVB;129-Tg(KRT5-E2F3)3.2Dgj/J

Stock No: 017768

 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

Dr. David G. Johnson, Univ. of Texas, MD Anderson Cancer Ctr.

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(KRT5-E2F3)3.2Dgj

Allele Type

Transgenic (Inserted expressed sequence, Humanized sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Dermatology Research

Cancer Research

Apoptosis 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

Overexpression of *E2f3* (E2F transcription factor 3), a key regulator of cell proliferation that works downstream of the retinoblastoma (*Rb*) gene, has been observed in some human tumors. In this FVB background strain, expression of a human *E2F3* cDNA transgene is directed to epithelial tissues (including the basal cell layer of the epidermis, urinary bladder and prostate) under the control of the bovine keratin 5 (*KRT5*) promoter. In this line (founder 3.2) E2F3 protein expression is increased by an average of 10 fold.

Transgenic mice show hyperproliferation, hyperplasia, and increased levels of TRP53-independent apoptosis in the epidermis. The overall tumor incidence in these mice at 2 years of age is not statistically different from wildtype siblings. If *KRT5*-expressing tissues are considered independently, these mice show ~20% more tumors, the majority being epithelial alveolar bronchiolar adenomas. No bladder or prostate tumors were observed. Oncogenic activity can be enhanced by skin carcinogenesis induction protocols (DMBA/TPA). After 20 weeks of promotion, mice develop approximately twice as many skin papillomas as wildtype siblings.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(KRT5-E2F3)3.2Dgj

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\(KRT5-E2F3\)3.2Dgj](#)

Separated PCR:[Tg\(KRT5-E2F3\)3.2Dgj](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Hemizyotes may be bred. It is not known whether homozygotes are viable or fertile.

[Additional Breeding and Husbandry Support](#)

Citation

When using the FVB;129-Tg(KRT5-E2F3)3.2Dgj/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017768 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
Cryo Recovery	Hemizygous or Non carrier for Tg(KRT5-E2F3)3.2Dgj	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	FVB;129-Tg(KRT5-E2F3)3.2Dgj/J	\$2595.00
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Email: TechTran@jax.org

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