

B6D2-Tg(MMTVTGFA)254Rjc/J

Stock No: 002459 | MMTV-TGF α

 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. Robert J. Coffey, Vanderbilt University Medical Center

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GENETIC OVERVIEW

[Genetic Background](#) [Generation](#)

Tg(MMTVTGFA)254Rjc

Alele Type

Transgenic (Inserted expressed sequence, Humanized sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

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

The phenotype of TgN(MMTVTGFA)254Rjc transgenic mice is very similar to that of B6D2-TgN(MMTVTGFA)29Rjc (Stock No. 002373). Mice are viable and fertile, but lactate insufficiently to support the litter. Virgin transgenic mice show no mammary gland abnormalities prepubertally, but adult virgin mice have considerable alveolar gland hyperplasia. Pregnant transgenic mice show marked proliferation of the stromal cells, and alveolar secretion is markedly increased compared to nontransgenic mice. After multiple pregnancies, isolated adenocarcinomas develop. There is no apparent phenotypic effect in males. In females transgene expression was localized to the small ducts and alveoli in both virgin and pregnant mice as evidenced by in situ hybridization and by immunohistochemistry. Immunostaining also revealed some stromal staining in the hyperplastic areas. *Egfr* mRNA expression was also increased in mammary tissues expressing high levels of the transgene. Crosses between TGFA transgenic mice and TGFB1 transgenic mice demonstrate that these growth factors oppose each other's action on mammary gland development. The B6D2-TgN(MMTVTGFA)254Rjc line is notable for sebaceous gland hyperplasia, which occurs in both male and female mice. The hyperplasia was evidenced as multiple raised, white plaques and nodules on the abdominal skin. No dysplasia or sebaceous cell carcinoma was observed. High expression of TGFA mRNA and TGFa protein was detected in the areas of sebaceous hyperplasia.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(MMTVTGFA)254Rjc

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

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, this strain is maintained by mating a (C57BL/6J x DBA/2)F1 female with transgenic carrier male. Female transgenic mice do not lactate.

[Additional Breeding and Husbandry Support](#)

Citation

When using the MMTV-TGF α mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002459 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	Carrier or non-carrier for Tg(MMTVTGFA)254Rjc	\$2,854.50

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Email: TechTran@jax.org

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