

B6;SJL-Tg(MMTV-rtTA)4-1Jek/J

Stock No: **010576**

 Transgenic

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

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investigator also reports some rtTA expression in salivary glands (particularly in males) as well as prostate glands. These mice are a Tet-On tool that allows conditional, dox-inducible expression of genes primarily in mammary gland epithelial cells and may be useful in studying the endocrine function of mammary tissues and/or breast cancer (for example).

Donating Investigator

Jeffrey Kudlow, University of Alabama at Birmingham

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Tg(MMTV-rtTA)4-1Jek

Alele Type

Transgenic (Transactivator)

VIEW GENETICS

RESEARCH APPLICATIONS

Endocrine Deficiency Research

Research Tools

Neurobiology 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 donating investigator claims homozygous mice are viable and fertile. These MMTV-rtTA mice have expression of the reverse tetracycline-controlled transactivator (rtTA) protein directed primarily to the breast epithelia of the mammary ductal system by the mouse mammary tumor virus (MMTV) promoter. The donating investigator also reports some rtTA expression in salivary glands (particularly in the males) as well as prostate glands. When mated to a mutant strain carrying a gene of interest under the regulatory control of a tetracycline-responsive promoter element (TRE, TetRE or tetO), expression of the target gene may be induced with administration of the tetracycline analog doxycycline (dox) in the double mutant offspring. These MMTV-rtTA mice are a Tet-On tool that allows conditional, dox-inducible expression of genes primarily in mammary gland epithelial cells and may be useful in studying the endocrine function of mammary tissues and/or breast cancer (for example).

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(MMTV-rtTA)4-1Jek

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\(MMTV-rtTA\)4-1Jek](#)

Standard PCR:[Tg\(MMTV-rtTA\)](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, transgenic carrier mice may be bred with wildtype (noncarrier) siblings. The donating investigator reports that homozygous mice are viable and fertile. B6SJLF1/J mice (Stock No. [100012](#)) are an approximate control.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6;SJL-Tg(MMTV-rtTA)4-1Jek/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #010576 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.

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or Non Carrier for Tg(MMTV-rtTA)4-1Jek	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6;SJL-Tg(MMTV-rtTA)4-1Jek/J Frozen Embryo	\$2595.00
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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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All

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By Gene

By Collection



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