

STOCK Tg(CMV-rtTA)4Bjd/J

Stock No: 003273

 Transgenic

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

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tetracycline response element (TRE) to study the target gene expression effects under tissue-specific, dox-inducible regulation.

Donating Investigator

Dr. Hermann Bujard, Universität Heidelberg

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(CMV-rtTA)4Bjd

Alele Type

Transgenic (Transactivator)

VIEW GENETICS

RESEARCH APPLICATIONS

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

Homozygous transgenic mice are viable, fertile, and display no overt phenotype. These mice carry the gene encoding the reverse tetracycline-controlled transactivator protein (rtTA) under the control of a human cytomegalovirus early promoter (P_{hCMV}). When these mice are mated to a strain carrying a luciferase reporter gene coupled to a tetracycline-responsive promoter element (TRE; tetO), luciferase expression in the bitransgenic offspring is induced up to 10^5 -fold by treatment with doxycycline (dox) in organs and tissues where P_{hCMV} is known to be active, (i.e. muscle, kidney, thymus and pancreas). Little to no luciferase expression is induced in tissues where P_{hCMV} is not active (i.e. lung, brain, liver and lymphocytes). These mice may be mated to strains containing a gene of interest coupled to a TRE to study the target gene expression effects under tissue-specific, dox-inducible regulation. Dox may be administered in the animals' water supply.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(CMV-rtTA)4Bjd

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

Probe: [Generic tTA/rtTA](#)

QPCR: [Tg\(tTA\)](#)

Standard PCR: [Tg\(tTA\)](#)

Standard PCR: [Tg\(tTA\)](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous mice are bred together. As this strain is on a mixed genetic background, black, albino and agouti coat colors may appear.

[Additional Breeding and Husbandry Support](#)

Appearance

agouti

Related Genotype: *A/+*

black

Related Genotype: *a/a*

albino

Related Genotype:

Citation

When using the STOCK Tg(CMV-rtTA)^{4Bjd/J} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #003273 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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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(rtTAhCMV)4Bjd	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	STOCK Tg(CMV-rtTA)4Bjd/J Frozen Embryo	\$2595.00
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The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

- All
- By Allele
- By Gene
- By Collection



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