

B6.Cg-Gt(ROSA)26Sor^{tm1(rtTA*M2)Jae} Col1a1^{tm1(tetO-mCherry)Eggn} /J

Stock No: **014602** | Rosa26-rtTA::Col1a1-tetO-H2B-mCherry

 Congenic, Gene Trap, Targeted Mutation

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

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the *Col1a1-tetO-H2B-mcherry* targeted mutation (a tet-responsive element (*tetO*) and a histone *H2B-mCherry* fusion protein, targeted to the collagen, type I, alpha 1 (*Col1a1*) locus). These *Rosa26-rtTA::Col1a1-tetO-H2B-mCherry* mice may be useful for doxycycline-inducible studies which utilize the rtTA/tet-O (tet-on/TRE) system for visualizing pluripotent cells.

Donating Investigator

IMR Colony, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background

Generation

Col1a1^{tm1(tetO-mCherry)Eggn}

Alele Type

Targeted (Reporter, Null/Knockout, RMCE-ready)

Gene Symbol

Col1a1

Gene Name

collagen, type I, alpha 1

*Gt(ROSA)26Sor^{tm1(rtTA*M2)Jae}*

Alele Type

Targeted (Transactivator)

Gene Symbol

Gt(ROSA)26Sor

Gene Name

gene trap ROSA 26, Philippe Soriano

VIEW GENETICS

RESEARCH APPLICATIONS

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

The *Rosa26-rtTA::Col1a1-tetO-H2B-mCherry* double mutant mice were generated by breeding *Rosa26-rtTA* mice (from Stock No. [006965](#)) with *Col1a1-tetO-H2B-mCherry* mice (from Stock No. [014592](#)). The *Rosa26-rtTA* targeted mutation has an optimized form of reverse tetracycline controlled transactivator (rtTA-M2) downstream of the *Gt(ROSA)26Sor* promoter. The *Col1a1-tetO-H2B-mCherry* targeted mutation contains a tet-responsive element (*tetO*) and a histone *H2B-mCherry* fusion protein, targeted to the collagen, type I, alpha 1 (*Col1a1*) locus.

Rosa26-rtTA::Col1a1-tetO-H2B-mCherry double mutant mice that are heterozygous for both targeted mutations are viable and fertile (mice homozygous for both targeted mutations were not generated by the donating investigator but are expected to be viable and fertile as well). These double mutant *Rosa26-rtTA::Col1a1-tetO-H2B-mCherry* mice have widespread expression of the optimized form of reverse tetracycline-controlled transactivator (rtTA-M2) protein directed to multiple tissues by the *Gt(ROSA)26Sor* promoter. In the absence of the tetracycline analog doxycycline (dox), expression of the dox-inducible histone *H2B-mCherry* fusion protein cassette from the *Col1a1* locus is not detected. Following dox administration, double mutant mice express the *H2B-mCherry* fusion protein in embryonic stem (ES) cells, and differentiated trophoblast stem (TS) cells. These double mutant *Rosa26-rtTA::Col1a1-tetO-H2B-mCherry* mice may be useful for doxycycline-inducible studies which utilize the rtTA/tet-O (tet-on/TRE) system for visualizing pluripotent cells. Mice homozygous for the *Col1a1-tetO-H2B-mCherry* mutation may exhibit a subtle kink in the tail.

Development

Expression Data

Control Suggestions

Selected References

– Genetics

+ [Col1a1^{tm1\(tetO-mCherry\)}Eggn](#)

+ [Gt\(ROSA\)26Sor^{tm1\(rtTA*M2\)}Jae](#)

– 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: [Gt\(rosa\)26sor Probe](#)

Standard PCR: [Gt\(ROSA\)26Sor](#)

Separated MCA: [Gt\(ROSA\)26Sor STD](#)

Standard PCR: [Gt\(ROSA\)26Sor STD](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, mice that are homozygous for both mutations may be bred together. Mice homozygous for the *Col1a1-tetO-H2B-mCherry* mutation may exhibit a subtle kink in the tail.

[Additional Breeding and Husbandry Support](#)

Citation

When using the Rosa26-rtTA::Col1a1-tetO-H2B-mCherry mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #014602 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	Heterozygous for Gt(ROSA)26Sor<tm1(rtTA*M2)Jae>, Heterozygous for Col1a1<tm1(tetO-mCherry)Eggn>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.Cg-Gt(ROSA)26Sor<tm1(rtTA*M2)Jae> Col1a1<t	Frozen Embryos	\$2595.00
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