

FVB/N-Tg(tetORo1-lacZ)3Conk/J

Stock No: **003315** | tetO-Ro1

 Coisogenic, Transgenic

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

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the regulation of tetracycline responsive elements (TRE; tetO)(see Strain Development for more information). When Ro1 is expressed in the heart (by crossing it with strain FVB.Cg-Tg(Myh6-tTA)6Smbf/J - Stock No. [003170](#)), administration of the drug spiradoline produces a dramatic decrease in heart rate. Since Ro1 and *lacZ* are co-integrated and under tetracycline/doxycycline control, X-gal staining can be used to identify cells in which the tet-inducible system is working. Ro1 activates G_i-signaling in response to spiradoline, and can be used to study the effect of G_i-signaling in many tissues. In the heart, Ro1-mediated activation of G_i-signaling slows heart rate, but in other tissues it is predicted to control diverse physiological events, such as cell proliferation, secretion,...

Donating Investigator

Dr. Bruce Conklin, Gladstone Institutes

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(tetORo1-lacZ)3Conk

Alele Type

Transgenic (Reporter, Inducible, Inserted expressed sequence)

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

Transgenic mice express both Ro1 (Receptor Activated Solely by a Synthetic Ligand (RASSL), opioid, #1) and *lacZ* under the regulation of tetracycline responsive elements (TRE; tetO)(see Strain Development for more information). When Ro1 is expressed in the heart (by crossing it with strain FVB.Cg-Tg(Myh6-tTA)6Smbf/J - Stock No. [003170](#)), administration of the drug spiradoline produces a dramatic decrease in heart rate. Since Ro1 and *lacZ* are co-integrated and under tetracycline/doxycycline control, X-gal staining can be used to identify cells in which the tet-inducible system is working. Ro1 activates G_i-signaling in response to spiradoline, and can be used to study the effect of G_i-signaling in many tissues. In the heart, Ro1-mediated activation of G_i-signaling slows heart rate, but in other tissues it is predicted to control diverse physiological events, such as cell proliferation, secretion, and neurotransmission.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(tetORo1-lacZ)3Conk

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

Homozygotes are viable, but are believed to be infertile. The expected coat color is albino.

[Additional Breeding and Husbandry Support](#)

Appearance

albino

Related Genotype: Tyr^c/Tyr^c

Citation

When using the tetO-Ro1 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #003315 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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CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or Non carrier for Tg(tetORo1-lacZ)3Conk	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	FVB/N-Tg(tetORo1-lacZ)3Conk/J	\$2595.00
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Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

THE JACKSON LABORATORY'S GENOTYPE PROMISE

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.

Terms Of Use

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[Use of MICE by companies or for-profit entities requires a license.](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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