

FVB-Tg(TERT-rluc)DJzhu/J

Stock No: 018167

📍 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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development and telomerase regulation.

Donating Investigator

Jiyue Zhu, Pennsylvania State University

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(TERT-rluc)DJzhu

Alele Type

Transgenic (Reporter)

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research

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

These transgenic mice express Renilla luciferase (*rluc*) under control of the human *TERT* (telomerase reverse transcriptase) promoter. Renilla luciferase (*rluc*) was inserted into the human BAC RPC111-117B23 which contains *TERT* (telomerase reverse transcriptase) including *cis* regulatory elements for *TERT*. After injection of the luciferin substrate, *rluc* expression can be visualized using bioluminescence imaging (BLI). Detectable luciferase activity mimics the published expression pattern of human *TERT* with bioluminescence observed in the adult thymus, skin, testis, and ovary tissues. *rluc* mRNA expression is detected in most tissues of E9.5 embryos by *in situ* RNA hybridization, but becomes more restricted with age. Mice that are hemizygous for the targeted mutation are viable and fertile. The Donating Investigator reports that homozygotes are viable but very sickly.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(TERT-rluc)DJzhu

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

Separated PCR:[Tg\(TERT-rluc\)DJzhu](#)

Separated MCA:[Tg\(TERT-rluc\)D](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred to wildtype (noncarrier) mice from the colony or to FVB/NJ inbred mice (Stock No. [001800](#)). The Donating Investigator reports that homozygotes are viable but very sickly.

[Additional Breeding and Husbandry Support](#)

Citation

When using the FVB-Tg(TERT-rluc)DJzhu/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #018167 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	Hemizygous or Non Carrier for Tg(TERT-rluc)DJzhu	\$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	FVB-Tg(TERT-rluc)DJzhu/J	\$2595.00

PAYMENT TERMS AND CONDITIONS

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.

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Q U E S T I O N S A B O U T T E R M S O F U S E

LICENSING INFORMATION

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 Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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