

129-*Trp53*^{tm1Tyj} /J

Stock No: 002080

 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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Fraumeni syndrome, a form of familial breast cancer with mutations in TRP53.

Donating Investigator

Dr. Tyler Jacks, Massachusetts Institute of Technology

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GENETIC OVERVIEW

Genetic Background

Generation

Trp53^{tm1Tyj}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Trp53

transformation related protein 53

VIEW GENETICS

RESEARCH APPLICATIONS

Apoptosis Research

Cancer Research

Immunology, Inflammation and Autoimmunity Research

Mouse/Human Gene Homologs

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

Mice homozygous for the *Trp53*^{tm1Tyj} mutation show no visible phenotype but most develop tumors (principally lymphomas and sarcomas) at 3-6 months of age. Heterozygous mice develop tumors at about 10 months of age. These mice model some of the features of human Li-Fraumeni syndrome, a form of familial breast cancer with mutations in TRP53. Homozygous mice may produce a litter before succumbing to tumors.

Development

Control Suggestions

Selected References

Genetics

Trp53^{tm1Tyj}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

- 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: [Trp53 Alternate2](#)

Probe: [Trp53-Probe](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Expected coat color from breeding: White Bellied Agouti Homozygous males MAY produce a litter, but will most likely only produce 1 litter.

[Additional Breeding and Husbandry Support](#)

Appearance

white-bellied agouti

Related Genotype: A^W/A^W

Citation

When using the 129- $Trp53^{tm1Tyj}/J$ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002080 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	Heterozygous or wildtype for $Trp53^{tm1Tyj}$	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

129-Trp53<tm1Tyj>/J Frozen Embryos

\$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

ADDITIONAL USE RESTRICTIONS APPLY

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

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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Yes No