

B6.129S4-Trp53^{tm3.1Tyj}/J

Stock No: **008182**

 Congenic, 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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types include osteosarcomas (often metastatic), hemangiosarcomas, B-cell lymphomas and a variety of carcinomas. Homozygous mice also develop an array of tumor types including a variety of hematological tumors (particularly T-cell lymphomas), hemangiosarcomas, soft-tissue sarcomas, osteosarcomas, primitive tumors (particularly male teratocarcinomas), and a variety of epithelial carcinomas. Homozygotes have a mean survival time of 4.5 months. This strain may be useful in studies of cancer and Li-Fraumeni Syndrome.

Donating Investigator

Dr. Tyler Jacks, Massachusetts Institute of Technology

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Trp53^{tm3.1Tyj}

Alele Type

Gene Symbol

Gene Name

Targeted

Trp53

transformation related protein 53

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research

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 targeted mutant mice carry a R270H missense mutation in exon 8 of the gene. Heterozygous mice develop a broad spectrum of tumors with a mean survival time of 16 months. Prominent tumor types include osteosarcomas (often metastatic), hemangiosarcomas, B-cell lymphomas and a variety of carcinomas. Homozygous mice also develop an array of tumor types including a variety of hematological tumors (particularly T-cell lymphomas), hemangiosarcomas, soft-tissue sarcomas, osteosarcomas, primitive tumors (particularly male teratocarcinomas), and a variety of epithelial carcinomas. Homozygotes have a mean survival time of 4.5 months. Mutant protein is expressed in all of the places that wildtype protein is expressed in normal tissues. Irradiation or DNA damage leads to substantially increased protein levels. Expression is also upregulated in some tumor types. This strain may be useful in studies of cancer and Li-Fraumeni Syndrome.

Development

Selected References

Genetics

Trp53^{tm3.1Tyj}

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

Sanger sequencing: [Trp53-SEQ](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintained as a live colony, heterozygotes may be bred. Homozygotes can breed, but have a shortened lifespan (~4.5 months).

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.129S4-*Trp53*^{tm3.1Tyj}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008182 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 <i>Trp53</i> <tm3.1Tyj>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6.129S4-Trp53^{tm3.1Tyj}/J Frozen Embryo

\$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.

Terms Of Use

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[General Terms and Conditions](#)

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

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By Allele

By Gene

By Collection



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