

FVB.129P2(B6)-Trp53^{tm1Brn}/JwkimJ

Stock No: 034624 | FVB.p53^{LoxP}

◆ 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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expression is deleted in the tissue of interest.

Of note, The Jackson Laboratory Repository also offers p53^{fllox} mice on a C57BL/6 genetic background (Stock No. 008462).

Donating Investigator

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Jung-Whan Kim, The University of Texas at Dallas

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GENETIC OVERVIEW

Genetic Background

Generation

Trp53^{tm1Brn}

Alele Type

Targeted (Conditional ready (e.g. floxed), No functional change)

Gene Symbol

Trp53

Gene Name

transformation related protein 53

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Cancer Research

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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

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. The phenotype summarized below is for the parental line: $p53^{flox}$ mice on a C57BL/6 genetic background (Stock No. [008462](#)). It should be noted that the phenotype of this FVB/NJ-congenic $p53^{flox}$ line (Stock No. [034624](#)) could vary from that of the parental line from which it was derived.

Exons 2-10 are flanked by *loxP* sites in this conditional targeted mutant strain. Mice homozygous for the floxed allele do not show any increase in disease incidence for at least a year. When bred to mice with a cre recombinase gene under the control of a promoter of interest, expression is deleted in the tissue of interest.

For example, when crossed to a strain expressing Cre recombinase in the nervous system (see Stock No. [003771](#)), this mutant mouse strain may be useful in studies of medulloblastoma formation.

When crossed to a strain expressing Cre recombinase in the central nervous system (see Stock No. [004600](#)), this mutant mouse strain may be useful in studies of astrocytoma formation.

When crossed to a strain expressing Cre recombinase in virgin and lactating mammary glands (see Stock No. [003553](#)), this mutant mouse strain may be useful in studies of mammary gland tumors.

When crossed to a strain expressing a doxycyclin-inducible Cre recombinase in the osteoblast lineage (see Stock No. [006361](#)), this mutant mouse strain may be useful in studies of osteosarcomas.

When crossed to a strain expressing Cre recombinase in the epithelial cells of the developing kidney and genitourinary tract (see Stock No. [012237](#)), this mutant mouse strain may be useful in studies of endometrial carcinoma.

Development

Control Suggestions

Selected References

Genetics

[+](#) *Trp53^{tm1Brn}*

[-](#) 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

When maintained as a live colony, heterozygotes may be bred. Homozygotes have a somewhat reduced fertility, but may be bred.

[Additional Breeding and Husbandry Support](#)

Mating System

Heterozygote x Heterozygote

Appearance

Albino

Citation

When using the FVB.p53^{LoxP} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #034624 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<tm1Brn>	\$2,854.50

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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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