

STOCK *Nf1*^{tm1Par} /J

Stock No: **017639** | *Nf1*lox

 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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studying cancer, neural crest development and neurofibromatosis type I.

Donating Investigator

Luis F Parada, UT Southwestern Medical Center

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GENETIC OVERVIEW

Genetic Background Generation

Nf1^{tm1Par}

Alele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed), No functional change)	<i>Nf1</i>	neurofibromin 1

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research
Research Tools
Mouse/Human Gene Homologs
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

Mutation in the human neurofibromin gene, *NF1*, is the cause of the autosomal dominant disorder Type I Neurofibromatosis. These mice possess *loxP* sites on either side of exons 31 and 32 of the targeted gene. Mice that are homozygous for this allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exons 31 and 32 deleted in the *cre*-expressing tissue(s).

When bred to a strain with Cre recombinase expression in the developing neural tube (see Stock No. [009107](#) for example), this mutant mouse strain may be useful in studies of Type I Neurofibromatosis.

When bred to a strain with Cre recombinase expression in neuronal cells (see Stock No. [003966](#) for example), this mutant mouse strain may be useful in studies of cerebral cortex development and reactive astrogliosis.

When bred to a strain with Cre recombinase expression in endothelial cells (see Stock No. [008863](#) for example), this mutant mouse strain may be useful in studies of neural crest development.

When bred to B6.Cg-Tg(Prrx1-cre)1Cjt/J mice (Stock No. [005584](#)), mesenchyme-specific *cre*-expression results in mice that exhibit an increase in the amount of connective tissue, as well as muscle dystrophy characterized by fibrosis, a reduced number of muscle fibers, and reduced muscle force.

When bred to mice carrying Tg(Mx1-cre)1Cgn (Stock No. [003556](#)), interferon-induced Cre-mediated recombination results in a progressive myeloproliferative disorder.

This allele is also part of the MADM-TG,p53KO,NF1-flox strain (Stock No. [017530](#)), which is a genetic mosaicism model for cancer.

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. This is the case for the strain above. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

Development

[+ Control Suggestions](#)

[+ Selected References](#)

[- Genetics](#)

[+ *Nf1^{tm1Par}*](#)

[- 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 MCA:[Nf1](#)

Separated PCR:[Nf1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Citation

When using the Nf1flox mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017639 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

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Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Nf1<tm1Par>	\$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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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

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