STOCK Nf1^ImPar/J

Stock No: 017639 | Nf1flox

Targeted Mutation

CRYO RECOVERY

PLACE ORDER
Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Overview

Also Known As: Nf1flox
These Nf1^flox mice possess loxP sites flanking exons 31-32 of the neurofibromatosis 1 gene (Nf1), and have applications in studying cancer, neural crest development and neurofibromatosis type 1.

Donating Investigator
Luis F Parada, UT Southwestern Medical Center
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 Tg1(Mx1-cre)1Cgn (Stock No. 003856), 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.

Genotyping Protocols

Separated PCR: N11^tmPar
Separated MCA: N11^tmPar

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 Nf1<tm1Par> mouse strain in a publication, please cite the originating article(s) and include JAX stock #017639 in your Materials and Methods section.

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

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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.

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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.

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