NOD.129P2(B6)-Lyz2^{tm1(cre)Ifs/NadMJ

Stock No: 019096 | LysMcre

Green: Congenic Targeted Mutation

Cryo Recovery

REQUEST CRYORECOVERY

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

Also Known As: LysMcre

The LysMcre knock-in/knockout allele has a nuclear-localized Cre recombinase inserted into the first coding ATG of the lysozyme 2 gene (Lyz2); both abolishing endogenous Lyz2 gene function and placing NLS-Cre expression under the control of the endogenous Lyz2 promoter/enhancer elements. These LysMcre mice may be useful for Cre-lox studies of the myeloid cell lineage (monocytes, mature macrophages and granulocytes) and the innate immune response.

Donating Investigator

Dr. Jerry L. Nadler, Eastern Virginia Medical School

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>Lyz2&lt;sup&gt;tm1(cre)lo&lt;/sup&gt;</td>
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<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Recombinase-expressing)</td>
<td>Lyz2</td>
<td>lysozyme 2</td>
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RESEARCH APPLICATIONS

Research Tools
Immunology, Inflammation and Autoimmunity Research
Internal/Organ Research
Developmental Biology Research
Hematological Research

BASE PRICE
Starting at:

$2,595.00 Domestic price Cryo Recovery

VIEW GENETICS

VIEW ALL RESEARCH APPLICATIONS

VIEW PRICE LIST
Details

Detailed Description

This strain expresses Cre recombinase from the endogenous Lyz locus in myeloid cells. When crossed with a strain containing floxP site-flanked sequence, Cre-mediated recombination results in deletion of the flanked region in the myeloid cell lineage, including monocytes, mature macrophages, and granulocytes. Mice that are homozygous for the targeted mutation are viable, and fertile. This strain represents an effective tool for generating myeloid cell-specific targeted mutants.

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

Expression Data

Control Suggestions

Genetics

Lyz2<sup>tm1creflo</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Separated MCA: Lyz2<sup>tm1creflo</sup>
Separated PCR: Lyz2<sup>tm1creflo</sup>
Genotyping resources and troubleshooting
Breeding Considerations
When maintaining a live colony, mice may be bred as homozygotes.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using the IL2-GFP mouse strain in a publication, please cite the originating article(s) and include JAX stock #019096 in your Materials and Methods section. Facility Barrier Level Descriptions
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.

Domestic | International
Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>Cryorecovery - Domestic Pricing</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or wildtype for Lyz2&lt;tm1(cre)Ifo&gt;</td>
<td>$2,595.00</td>
</tr>
</tbody>
</table>

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.

Related Products and Services

| Frozen Mouse Embryo | $2,595.00 per straw or vial |

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains