B6N.129P2(lyz2(cre))/J

Stock No: 018956 | LysMcre

Congenic, Targeted Mutation

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: 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.

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lyz2&lt;sup&gt;tm1(cre)If&lt;/sup&gt;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Recombinase-expressing)</td>
<td>Lyz2</td>
<td>lysozyme 2</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

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

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

Details

To be more suitable for use with C57BL/6N-congenic Knockout Mouse Project (KOMP) strains with floxed alleles, The Jackson...
Laboratory Repository chose several Cre recombinase-expressing strains and backcrossed them onto the C57BL/6N genetic background using a marker-assisted, speed-congenic approach. This approach employed 148 single nucleotide polymorphism (SNP) markers that differ between the C57BL/6N and C57BL/6J substrains, covering all 19 chromosomes and the X chromosome. This analysis determined that the colony has at least 97% of the SNP markers as C57BL/6N allele-type.

The parental line, C57BL/6-congenic LysMcre knockin/knockout mice, are available and described as Stock No. 004781. It should be noted that the phenotype of these C57BL/6NJ-congeneric LysMcre knockin/knockout mice (Stock No. 018956) could vary from that of the C57BL/6-congeneric parental line from which it was derived. We may modify the C57BL/6NJ-congeneric strain description if necessary as published results become available.

Breeding Considerations
Mice were bred to C57BL/6NJ inbred mice (Stock No. 005304) for many generations using a marker-assisted, speed congenic approach to generate this C57BL/6NJ-congeneric strain. When maintaining the live congenic colony, homozygous mice may be bred together.

Additional Breeding and Husbandry Support
Citation

When using the LysM<sup>cre</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #018956 in your Materials and Methods section.

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.

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### Domestic Pricing

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or wild-type for Lyz2&lt;tm1(cre)Ifo&gt;/</td>
<td>$2,854.50</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.

Cryo recovery 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

<table>
<thead>
<tr>
<th>Product</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>B6N.129P2(B6)-Lyz2&lt;tm1(cre)Ifo&gt;/J Frozen Embryo</td>
<td>$2595.00</td>
</tr>
</tbody>
</table>

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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.

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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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Phone: 207-288-6470
Email: TechTran@jax.org

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