B6.129P2-Lyz2<sup>tm1(cre)fts</sup>/J

Stock No: 004781 | LysMcre

Congenic, Targeted Mutation

PLACE ORDER

0–2 week average lead time for 10 or more mice with age range

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

Irmgard Foerster, University of Duesseldorf

READ MORE +
### Lys2<sup>tm1(cre)If0</sup>

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

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

**Starting at:**

$255.00 Domestic price for female 4-week

**Details**

**Detailed Description**

The LysM<sup>cre</sup> knock-in 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. When crossed with a strain containing loxP site flanked sequence of interest, Cre-mediated recombination results in deletion of the targeted gene in the myeloid cell lineage, including monocytes, mature macrophages, and granulocytes. Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. This strain represents an effective tool for generating myeloid cell-specific targeted mutants.

View cre expression characterization.

**Development**

**Expression Data**

**Control Suggestions**

**Selected References**
Genetics

Lyz2<sup>tm1creifi</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>tm1creifi</sup>
Separated PCR: Lyz2<sup>tm1creifi</sup>
Genotyping resources and troubleshooting

Dietary Information
LabDiet<sup>®</sup> 5K52 formulation (6% fat)

Breeding Considerations
When maintaining the live colony, homozygous mice may be bred together. The expected coat color is black (non-agouti).
Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using this strain as a source strain in a publication, please cite the originating article(s) and include JAX stock #004781 in your Materials and Methods section.
Facility Barrier Level Descriptions

AX11 (Maximum)

Pricing & Availability

0–2 week average lead time for 10 or more mice with age range

Repository Live
### Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
<td>4 weeks</td>
<td>Female</td>
<td>Homozygous for Lyz2&lt;sup&gt;tm1cre&lt;/sup&gt;/Lo &lt;sup&gt;tm1cre&lt;/sup&gt;</td>
<td>$255.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Lyz2&lt;sup&gt;tm1cre&lt;/sup&gt;/Lo &lt;sup&gt;tm1cre&lt;/sup&gt;</td>
<td>$255.00</td>
</tr>
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<td>5 weeks</td>
<td>Female</td>
<td>Homozygous for Lyz2&lt;sup&gt;tm1cre&lt;/sup&gt;/Lo &lt;sup&gt;tm1cre&lt;/sup&gt;</td>
<td>$255.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Lyz2&lt;sup&gt;tm1cre&lt;/sup&gt;/Lo &lt;sup&gt;tm1cre&lt;/sup&gt;</td>
<td>$255.00</td>
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<td>6 weeks</td>
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<td>Homozygous for Lyz2&lt;sup&gt;tm1cre&lt;/sup&gt;/Lo &lt;sup&gt;tm1cre&lt;/sup&gt;</td>
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<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Lyz2&lt;sup&gt;tm1cre&lt;/sup&gt;/Lo &lt;sup&gt;tm1cre&lt;/sup&gt;</td>
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<td>Homozygous for Lyz2&lt;sup&gt;tm1cre&lt;/sup&gt;/Lo &lt;sup&gt;tm1cre&lt;/sup&gt;</td>
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### Related Products and Services

<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
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<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</td>
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Email: TechTran@jax.org
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