Overview

Also Known As: 5LX-
These Alox5 knock-out mice exhibit a selective opposition to certain inflammatory insults.
**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td><strong>Alox5&lt;sup&gt;tm1Fun&lt;/sup&gt;</strong></td>
<td></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 (Null/Knockout)</td>
<td>Alox5</td>
<td>arachidonate 5-lipoxygenase</td>
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**RESEARCH APPLICATIONS**

Immunology, Inflammation and Autoimmunity Research  
Metabolism Research

**BASE PRICE**

Starting at:

$2,595.00 Domestic price Cryo Recovery

**Details**

**Detailed Description**

Mice homozygous for the Alox5<sup>tm1Fun</sup> targeted mutation are viable and fertile. In general, homozygous mutant mice are selectively resistant to inflammatory insults. They are resistant to the lethal effects of platelet activating factor but reaction to endotoxin shock is normal. Phorbol ester induced inflammation is normal but arachidonic acid induced inflammation is reduced. Commonly referred to as 5-LO.

**Development**

**Control Suggestions**

**Selected References**

**Genetics**

**Alox5<sup>tm1Fun</sup>**
Genotyping Protocols
Standard PCR: Alox5^{tm1Un}
Genotyping resources and troubleshooting

Breeding Considerations
Homoygous mice are viable and fertile. This strain is maintained by homozygous matings. Expected coat color from breeding: White Bellied Agouti
Additional Breeding and Husbandry Support

Appearance
white-bellied agouti
Related Genotype: A^w/A^w

Citation
When using the FLX mouse strain in a publication, please cite the originating article(s) and include JAX stock #002263 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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<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
<td>Cryorecovery - Domestic Pricing</td>
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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.

**Related Products and Services**

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

**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.

**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.

**Terms Of Use**

Terms of Use

General Terms and Conditions

**Licensing Information**

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

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains
Leading the search for
TOMORROW'S CURES