B6.129S2-Alox5\textsuperscript{tm1Fun}/J

**Stock No:** 004155

*Congenic, Targeted Mutation*

**Also Known As: 5LX-**

Mice homozygous for Alox5\textsuperscript{tm1Fun} are in general selectively resistant to inflammatory insults. Because Leukotrienes are derived from 5-lipoxygenase-catalysed oxygenation of arachidonic acid in granulocytes, macrophages and mast cells, this strain may be useful in studying roles of leukotrienes in the pathophysiology of select inflammatory states.

**Donating Investigator**

Colin D. Funk, Queen's University

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N13F4</td>
</tr>
<tr>
<td></td>
<td>(2019-06-17 00:00:00)</td>
</tr>
</tbody>
</table>

**Alox5\textsuperscript{tm1Fun}**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Alox5</td>
<td>arachidonate 5-lipoxygenase</td>
</tr>
</tbody>
</table>

**RESEARCH APPLICATIONS**

Immunology, Inflammation and Autoimmunity Research
Metabolism Research

**BASE PRICE**

Starting at:
Genotyping Protocols
Standard PCR: Alox5<sup>tm1Fun</sup>
Genotyping resources and troubleshooting
Dietary Information
LabDiet<sup>®</sup> 5K52 formulation (6% fat)
Breeding Considerations
This strain originated on a B6;129S2 background and has been backcrossed to C57BL/6J for at least nine generations (8/21/01). Coat color expected from breeding: Black

Additional Breeding and Husbandry Support

Mating System
Homozgygote x Homozgygote

Citation
When using the IL6 null mouse strain in a publication, please cite the originating article(s) and include JAX stock #004155 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

AX11 (Maximum)

## Pricing & Availability

Live mice available in varying quantities. Ask Customer Service for details.

<table>
<thead>
<tr>
<th>Live Mouse</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 Alox5&lt;sup&gt;tm1Fun&lt;/sup&gt;</td>
<td>$236.78</td>
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Email: TechTran@jax.org

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