Overview

A C57BL/6J-congenic version of this strain is available as Stock No. 029661. These knock-out mice, susceptible to infection, are useful when studying the role of C3 during immune responses.

Donating Investigator

Michael C. Carroll, The Center for Blood Research

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
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<tbody>
<tr>
<td>N?+pN7F23</td>
<td></td>
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<tr>
<td>(2019-06-12 00:00:00)</td>
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</tr>
</tbody>
</table>
Mice homozygous for the C3 (complement component C3) targeted mutation are viable and fertile. Homozygous mutants exhibit an increased susceptibility to lethal infection by Group B streptococci. Reductions in peritoneal mast cell degranulation, production of tumor necrosis factor alpha, neutrophil infiltration and bacterial clearance have also been reported in these mice. Homozygotes also demonstrate a profound defect in antibody response to T cell dependent antigens. They show a diminished level of peanut agglutinin+ germinal centers and a failure in isotype switching despite normal B cell signaling \textit{in vitro}.
Genotyping Protocols
Standard PCR: C3<sup>tm1Crr</sup>

Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
When maintaining a live colony, homozygous mice may be bred together. The expected coat color from breeding is black.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using the B6.129S4-C3<sup>tm1Crr</sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #003641 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

Pricing & Availability

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

Available

### Pricing & Availability

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>4 weeks</td>
<td>Female</td>
<td>Homozygous for C3&lt;sup&gt;tm1Crr&lt;/sup&gt;</td>
<td>$247.50</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for C3&lt;sup&gt;tm1Crr&lt;/sup&gt;</td>
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