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
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 in vitro.
Genotyping Protocols
Standard PCR: C3\textsuperscript{tm1Crr}

Genotyping resources and troubleshooting

Dietary Information
LabDiet\textregistered 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\textsuperscript{tm1Crr}/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.

<table>
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<th>GENOTYPE</th>
<th>PRICE</th>
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<td>Female</td>
<td>Homozygous for C3\textsuperscript{tm1Crr}</td>
<td>$247.50</td>
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### Related Products and Services

**Frozen Mouse Embryo**

B6.129S4-C3<tm1Crr>/J Frozen Embryos

$2595.00

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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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Terms of Use

[General Terms and Conditions](#)

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Phone: 207-288-6470

Email: TechTran@jax.org
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Related Strains

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- By Allele
- By Gene