B6;129S4-C3tm1Crr/J

Stock No: 003641

Targeted Mutation

REPOSITORY LIVE

PLACE ORDER

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

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

READ MORE +

Genetic Background

C3tm1Crr

Allele Type

Targeted (Null/Knockout)

Gene Symbol

C3

Gene Name

complement component 3

VIEW GENETICS

Immunology, Inflammation and Autoimmunity Research
Developmental Biology Research
Research Tools

VIEW ALL RESEARCH APPLICATIONS

Starting at:
Details

Detailed Description
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.

Development

Control Suggestions

Genetics

C3<sup>tm1Crr</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
High Resolution Melting: 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 BA1295/Crj-2tmt1Cre/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
AX11 (Maximum)

Pricing & Availability

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

Repository Live

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<th>Live Mouse</th>
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<td>Homozygous for C3 \textsuperscript{tm1Cre}</td>
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Related Products and Services

Frozen Mouse Embryo $2,595.00 per straw or vial

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- All
- By Allele
- By Gene
- By Collection

All Related Strains

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TOMORROW'S CURES