B6.129S(Cg)-Commd1^tm2.1Bvds/J

Stock No: 018419

Congenic, Targeted Mutation

CRYO RECOVERY

PLACE ORDER

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Commd1^loxP mice have applications related to the study of copper regulation, NF-κB and hypoxia signaling, and oxidative stress.

Donating Investigator

Bart van de Sluis, University of Groningen

READ MORE +

Genetic Background

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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</table>

Commd1^tm2.1Bvds

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Conditional ready (e.g. floxed), No functional change)</td>
<td>Commd1</td>
<td>COMM domain containing 1</td>
</tr>
</tbody>
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VIEW GENETICS

Research Tools

Immunology, Inflammation and Autoimmunity Research
Apoptosis Research
Metabolism Research

VIEW ALL RESEARCH APPLICATIONS

Starting at:
Details

Detailed Description

These Commd1 loxP mutant mice possess loxP sites flanking exon 1 of the Commd1 (COMM domain containing 1) gene. COMMD1 plays a role in copper homeostasis, sodium transport, antioxidant defense, SOD-1 maturation, and NF- B and hypoxia signaling. Mice that are homozygous for this allele are viable and fertile. When bred to mice that express Cre recombinase, resulting offspring will have exon 1 deleted in cre-expressing tissues. Germ-line deletion of COMMD1 results in embryonic lethality.

When bred to B6.Cg-Tg(Alb-cre)21Mgn/J mice (Stock No. 003574), COMMD1 deficiency in the liver results in a 3-fold increase in hepatic copper levels when mice are fed a normal chow, and a progressive 20-fold increase when fed a diet high in copper.

Development

Control Suggestions

Selected References

Genetics

Commd1 tm2.1Bvd

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
Standard PCR: Commd1 tm2.1Bvd
Genotyping resources and troubleshooting
Breeding Considerations
When maintaining a live colony, homozygous mice may be bred together.

Additional Breeding and Husbandry Support

Citation
When using the B6.129S7(Cg)-Commd1<sup>tm2.1Bvds</sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #018419 in your Materials and Methods section.

Animal Health Reports

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.

<table>
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<tr>
<th>Service</th>
<th>Genotype</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Commd1&lt;sup&gt;tm2.1Bvds&lt;/sup&gt;</td>
<td>$2,595.00</td>
</tr>
</tbody>
</table>

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.

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The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background
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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains