C.Cg-Cd19^tm1(cre)Cgn^ Igh^b/J

Stock No: 004126 | CD19Cre

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.

Overview

Also Known As: CD19Cre

Homozygous mice are Cd19-deficient, whereas heterozygous mice are phenotypically normal and can be used for specific deletion of
floxed targets in B-lymphocytes. Homozygous mice are severely impaired in their ability to respond to T-cell-dependent antigens and fail to form splenic germinal centers. A deficiency in the B-1 subset of B-lymphocytes is observed along with a concomitant reduction in serum IgM.

**Donating Investigator**

Robert Rickert, The Burnham Institute

### GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cd19(cre)Cgn</strong></td>
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<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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</thead>
<tbody>
<tr>
<td>Targeted (Recombinase-expressing)</td>
<td>Cd19</td>
<td>CD19 antigen</td>
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<table>
<thead>
<tr>
<th>Marker(s)</th>
<th>Marker Symbol</th>
<th>Marker Name</th>
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<tr>
<td></td>
<td>IgH</td>
<td>immunoglobulin heavy chain complex</td>
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### RESEARCH APPLICATIONS

Research Tools
Hematological Research
Immunology, Inflammation and Autoimmunity Research

### BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

**Details**

**Detailed Description**
The Cd19 promoter specifically directs expression at the earliest stages and throughout B-lymphocyte development and differentiation. A Cre cassette is inserted into the Cd19 exon 2, functionally disrupting the gene. Homozygous mice are Cd19-deficient, whereas heterozygous mice are phenotypically normal and can be used for specific deletion of floxed targets in B-lymphocytes. Mice that are homozygous deficient for Cd19 are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. A deficiency in the B-1 subset of B-lymphocytes is observed along with a concomitant reduction in serum IgM. Homozygous mice are severely impaired in their ability to respond to T-cell-dependent antigens and fail to form splenic germinal centers.

Because the targeted mutation was generated on 129P2-derived embryonic stem cells, and the Cd19 locus is near the Tyr locus on chromosome 7, the these Cd19-deficient mice may be albino (white coat color/pink eyes) or light-agouti coat color with dark eyes. View cre expression characterization.

Genetics

- Cd19<sup>m1creCgn</sup>
- Igh

Disease/Phenotype

- Disease Terms
- Research Areas By Genotype
- Mammalian Phenotype Terms by Genotype
- References

Technical Support

Genotyping Protocols
Separated PCR: Cd19<sup>m1creCgn</sup>
SEPARATED MELT: Cd19<sup>m1creCgn</sup> Alternate2
Genotyping resources and troubleshooting
Citation
Animal Health Reports
Facility Barrier Level Descriptions
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>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
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<tbody>
<tr>
<td>Pricing effective for USA, Canada and Mexico shipping destinations</td>
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</table>

<table>
<thead>
<tr>
<th>Cryorecovery - Domestic Pricing</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Cd19&lt;tm1(cre)Cgn&gt; Igh&lt;b&gt;</td>
<td>$2,854.50</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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Terms of Use
General Terms and Conditions

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Email: TechTran@jax.org

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