Mice that are homozygous for the targeted mutation exhibit slightly increased red blood cell counts, mean corpuscular hemoglobin, hematocrit and mean corpuscular volume when compared to wild-type controls. Homozygotes have diminished antigen-induced granulation tissue formation.

Donating Investigator
Dr. Stephen Hedrick, University of California at San Diego
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clec10a&lt;sup&gt;tm1Hed&lt;/sup&gt;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Clec10a</td>
<td>C-type lectin domain family 10, member A</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

Hematological Research
Cell Biology Research
Immunology, Inflammation and Autoimmunity Research

BASE PRICE
Starting at:

$2,854.50 Domestic price Cryo Recovery

Details

Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. No gene product (mRNA) is detected by Northern blot or RT-PCR analysis. Immunohistochemical reactivity is not detected in inflamed skin. Although mutant mice exhibit slightly increased red blood cell counts, mean corpuscular hemoglobin, hematocrit and mean corpuscular volume when compared to wild-type controls, these levels are within the normal range for mice. Homozygotes have diminished antigen-induced granulation tissue formation but show normal antigen-independent granulation tissue formation. This mutant mouse strain may be useful in studies of glycosidic molecular interactions and function, antigen-specific and antigen-independent cellular immune response and hematopoiesis.

This strain was transferred from the collection of the Consortium for Functional Glycomics.

Development
Genotyping Protocols
Separated PCR: Clec10a
Separated PCR: B6.129-Mgl1/J
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice can be bred as homozygotes.

Additional Breeding and Husbandry Support

Citation
When using the B6.129-Clec10a<sup>tm1Hed</sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #006944 in your Materials and Methods section.

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.
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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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains