NOD.Cg-Tg(Ins2-Cxcl13)1Cys/JbsJ

Stock No: 006154 | NOD.RIP-BCL

Congenic, Transgenic

CRYO RECOVERY

PLACE ORDER

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

Also Known As: NOD.RIP-BLC1, NOD.BLC1, NOD.BLC, NOD.RIP-BLC, RIP-BLC1, NOD.RIP-BCL

Expression of the transgene in these mice leads to development of lymph node-like structures in pancreatic islets that contain B and T cell zones, high endothelial venules, stromal cells, and the chemokine SLC.

Donating Investigator

Dr. Jeffrey A. Bluestone, University of California, San Francisco

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GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>001289 NOD/ShiLt</td>
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</tbody>
</table>

Tg(Ins2-Cxcl13)1Cys

Allele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Diabetes and Obesity Research
Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:
Details

Detailed Description

Ins2-Cxcl13 (commonly referred to as BLC) transgenic mice are viable, fertile, normal in size, and do not display any gross physical or behavioral abnormalities. On the B6.D2 background pancreatic islet structure is disrupted, strongly resembling severe insulitis. However, these mice have normal blood glucose levels, no decrease in B-cells and do not become overtly diabetic. Immunohistochemistry indicates Cxcl13 expression is significantly higher in the pancreatic islets than the follicular stromal cells of the lymph nodes while no expression was observed in the liver or kidney. Histopathology indicates 50% of the pancreatic islets are infiltrated with small nucleated cells. Immunohistochemistry and FACS analysis reveals that 90% of the infiltrating cells are B220+ naïve B lymphocytes. In addition, CD4+ and CD8+ cells were present. Transgenic expression leads to the development of lymph node like structures that contain B and T cell zones, high endothelial venules, stromal cells and the chemokine Ccl21 (SLC), Luther SA et al; Immunity 2000.
On the NOD congenic background Tg(Ins2-Cxcl13) expression in the pancreas leads to accelerated diabetes (Donating investigator unpublished communication).
This strain is useful to the study of B cells and chemokines in the development of diabetes.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Ins2-Cxcl13)1Cys

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Standard PCR: Tg(Ins2-Cxcl13)1Cys
Genotyping resources and troubleshooting

Mating System
Hemizygote x +/- sibling

Appearance
albino, pink eyed
Related Genotype: A/A TyrC/TyrC

Citation
When using the Ins2-Cxcl13 Tg mouse strain in a publication, please cite the originating article(s) and include JAX stock #006154 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

Cryo Recovery
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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<tr>
<td>Pricing effective for USA, Canada and Mexico shipping destinations</td>
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</table>

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or Non carrier for Tg(Ins2-Cxcl13)1Cys</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.

<table>
<thead>
<tr>
<th>Related Products and Services</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</td>
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</tbody>
</table>
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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By Gene

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