NOD.Cg-Tg(TcraBDC2.5,TcrbBDC2.5)1Doi/DoiJ

Stock No: 004460 | BDC2.5 TCR

Congenic, Transgenic

PLACE ORDER

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

Also Known As: NOD.BDC2.5, BDC2.5 TCR
These transgenic mice express the diabetogenic CD4+ T cell clone BDC-2.5 specific regulatory T cell receptor.

Donating Investigator
Christophe Benoist, Joslin Diabetes Center

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>N11+pN7</td>
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<td>(2019-03-01 00:00:00)</td>
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</table>

**Tg(TcraBDC2.5,TcrbBDC2.5)1Doi**

Allele Type
Transgenic (Inserted expressed sequence)

RESEARCH APPLICATIONS
Diabetes and Obesity Research
Immunology, Inflammation and Autoimmunity Research

BASE PRICE
Starting at:

- $231.00 Domestic price for female 4-week
- 307.22 Domestic price for breeder pair

Details

Detailed Description
These transgenic mice carry both rearranged TCR alpha and beta genes from the cytotoxic CD4+ T cell clone BDC-2.5. When paired...
with a homozygous Rag1<sup>tm1Moore</sup> mutation (such as in Stock No. 003729), recombination of endogenous TCR and Ig is prevented so that mature T cells in these mice express only the BDC2.5 TCR. On the NOD background, mice carrying the transgenes have a reduced incidence of diabetes relative to NOD/ShiLtJ controls (12% incidence at age 30 weeks). When coupled with the homozygous Rag1<sup>tm1Moore</sup> mutation, mice develop diabetes extremely early (mean age of 25 days). (Katz et al 1993, Gonzalez et al 2001, Mombaerts et al 1992)

Genotyping Protocols
Standard PCR: Tg(TcraBDC2.5)1D0i, Tg(TcrbBDC2.5)2D0i
MELT: Tg(TcraBDC2.5)1D0i, Tg(TcrbBDC2.5)2D0i
Genotyping resources and troubleshooting

Dietary Information
New Diet as of March 2015: Lab Diet® 5K0Q (6% fat)

Breeding Considerations
When maintaining a live colony, hemizygous mice are bred to wildtype siblings. Homozygous mice may not display delayed onset of diabetes.
Additional Breeding and Husbandry Support

Mating System
Noncarrier x Hemizygote
Appearance

albino
Related Genotype: Tyr<sup>c</sup>/Tyr<sup>c</sup>

albino, pink eyed
Related Genotype: A/A Tyr<sup>c</sup>/Tyr<sup>c</sup>

Citation

When using the B6C3F1 TCR mouse strain in a publication, please cite the originating article(s) and include JAX stock #004460 in your Materials and Methods section.

Facility Barrier Level Descriptions

Animal Health Reports

Pricing & Availability

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

Repository Live

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<td>4 weeks</td>
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<td>$231.00</td>
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<td>Noncarrier</td>
<td>$76.22</td>
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<td></td>
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<tr>
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<tr>
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<td>Hemizygous for Tg(TcraBDC2.5, TcrbBDC2.5)1Doi</td>
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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains

C57BL/6-Tg(TcraTcrb)1100Mjb/J
Stock No: 003831 | OT-1
Related By: Tcra, Tcrb

B6.129P2-Tcrtm1Mom/J
Stock No: 002118 | Tcrr KD
Related By: Tcrr
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