BXSB.B6-Tg(TcraTcrb)1100Mjb/DcrJ

Stock No: 021880

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.
BXSB.Tg(TcraTcrb)1100 mice are a BXSB-congenic strain carrying the OT-1 T cell receptor transgenes; resulting in high frequency of MHC class I-restricted, ovalbumin-specific, CD8+ T cells (OT-I cells). These mice may be useful in studying CD8+ T cell development/selection and CD8+ T cell suppressor cells in spontaneous lupus-like autoimmune syndrome. These BXSB.Tg(TcraTcrb)1100 mice are also called BXSB.Yaa Tg(TcraTcrb)1100 mice or BXSB.Yaa OT-1 TCR transgenic mice.

Donating Investigator
Dr. Derry Roopenian, The Jackson Laboratory

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td><strong>Tg(TcraTcrb)1100Mjb</strong></td>
<td></td>
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</tbody>
</table>

Allele Type
Transgenic (Inserted expressed sequence)

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Mouse/Human Gene Homologs
Research Tools
Internal/Organ Research

BASE PRICE
Starting at:

$2,595.00 Domestic price Cryo Recovery

Details

Detailed Description

BXSB.Tg(TcraTcrb)1100 mice are a BXSB-congenic strain carrying the OT-1 T cell receptor transgenes (Tcra-V2 and Tcrb-V5) that recognize ovalbumin residues 257-264 in the context of H2Kb. Hemizygous mice have a high frequency of MHC class I-restricted, ovalbumin-specific, CD8+ T cells (OT-I cells).
BXSB.Tg(TcraTcrb)1100 hemizygotes develop spontaneous lupus-like autoimmune syndrome similarly to BXSB/MpJ inbred mice (Stock No. 000740). Specifically, mortality in males starts at ~13 weeks of age with 50% lethality by ~30 weeks and 76% lethality by ~40 weeks. Females develop a greatly attenuated form of autoimmune disease because they lack Yaa. Hemizygous mice are otherwise viable, fertile, and are somewhat immunodeficient (like most TCR transgenic mice). The donating investigator has not determined the phenotype of homozygous mice to date (May 2013).

C57BL/6-congenic OT-1 TCR transgenic mice are described and available from The Jackson Laboratory Repository as Stock No. 003831.
Breeding Considerations
To maintain the live colony, hemizygous mice may be bred together, to wildtype (noncarrier) mice from the colony, or to BXSB/MpJ inbred mice (Stock No. 000740). Hemizygous mice exhibit the same autoimmune disease as BXSB/MpJ inbred mice. Specifically, mortality in males starts at ~13 weeks of age with 50% lethality by ~30 weeks and 76% lethality by ~40 weeks. Females develop a greatly attenuated form of autoimmune disease because they lack Yaa. Hemizygous mice are otherwise viable, fertile, and somewhat immunodeficient (like most TCR transgenic mice). The donating investigator has not determined the phenotype of homozygous mice to date (May 2013). The expected coat color is white-bellied agouti.

Additional Breeding and Husbandry Support

Citation
When citing BioLay by B6;129-TcraTcrrb1100Mjb/DcrJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #021880 in your Materials and Methods section.

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.

### Domestic | International

Cryorecovery - Domestic Pricing

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous for Tg(TcraTcrrb)1100Mjb</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

<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00</td>
</tr>
</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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The Jackson Laboratory has rigorous genetic quality control and mutant mouse genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. Therefore, we cannot guarantee a strain’s phenotype will meet all expectations. To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project.

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Phone: 207-288-6470
Email: TechTran@jax.org

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains

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Leading the search for
TOMORROW'S CURES