The BXD#/Rww set was generated using a strategy of advanced intercrosses (AI). The AI technique produces recombinant RI strains which incorporate approximately twice as many recombinations as the standard RI strains. The addition of the AI BXD RI lines to the existing BXD set creates the largest of the mouse RI mapping panels. This set is useful in QTL mapping and analysis of gene function. The BXD strains are derived from the C57BL/6J (Stock No. 000664) and DBA/2J (Stock No. 000671) progenitor strains.

GENETIC OVERVIEW

**Genetic Background**

**Generation**

F21+25  
(2020-09-17 00:00:00)

RESEARCH APPLICATIONS

Research Tools

BASE PRICE

Starting at:

$139.90 Domestic price for female
The BXD recombinant inbred (RI) strains are used to study the genetics of behavioral phenotypes including alcohol and drug addiction, stress, and locomotor activity. The BXD set of RI strains also are used in the genetic analysis of numerous complex or potentially complex physiologic phenotypes including differences in organ weight and bone mineral density.

The BXD#/Rww set was generated using a strategy of advanced intercrosses (AI). The AI technique produces recombinant RI strains which incorporate approximately twice as many recombinations as the standard RI strains. The addition of the AI BXD RI lines to the existing BXD set creates the largest of the mouse RI mapping panels. This set is useful in QTL mapping and analysis of gene function.

The strain distribution pattern (SDP) for the BXD RI strains is available through the Mouse Genome Informatics Contributed Data Sets and Gene Network.

Additional tools and information are presented through the Mouse Phenome Database Specialized Strain Panel Query Form, and Gene Network.

Through high density MUGA (Mouse Universal Genotyping Array) analysis performed in 2011 and Affymetrix screening in 2008, it has been determined that some BXD recombinant inbred strains are the same or nearly the same genetically. BXD73/Rww, BXD80/Rww (Stock No. 007124) and BXD103/Rww (Stock No. 007146) were found to be highly similar in their overall genomes, but with particular chromosomes differing between them. We have renamed two of these sister strains to reflect the genetic similarity. BXD73/Rww is designated the primary strain, and the name will not be changed. BXD80/Rww is now designated BXD73a/Rww and BXD103/Rww is now designated BXD73b/Rww. In general, the “sister” strains (the ones with a suffix) should not be used for primary screening/QTL mapping. However, if a QTL is located in a region of difference in a sister recombinant inbred then this strain can serve as a “near congenic” for additional analysis. For additional information see GeneNetwork.
**Disease/Phenotype**

**Disease Terms**

**Research Areas By Phenotype**

**Mammalian Phenotype Terms by Genotype**

**Phenotype Information**

**References**

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**Technical Support**

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Mating System
Sibling x Sibling

Appearance
dilute brown

Related Genotype: \(a/a\) Tyrp1\(^b\) /Tyrp1\(^b\) Myo5a\(^d\) /Myo5a\(^d\)

Citation
When using the BXD73/RwwJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #007117 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

- FGB29 (Standard)

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**Pricing & Availability**
Live mice available in varying quantities. Ask Customer Service for details.

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<thead>
<tr>
<th>DOMESTIC</th>
<th>INTERNATIONAL</th>
</tr>
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<tbody>
<tr>
<td>Pricing effective for USA, Canada and Mexico shipping destinations</td>
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### RELATED PRODUCTS AND SERVICES

<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
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<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2595.00</td>
</tr>
<tr>
<td>BXD73/RwwJ Frozen Embryos</td>
<td></td>
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</table>

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

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