The BXD#/Rww recombinant inbred (RI) strains originate from crosses between C57BL/6J (000664) females and DBA/2J (000671) males and were generated using a strategy of advanced intercrosses (AI). They may be used to study the genetics of behavioral phenotypes (including alcohol and drug addiction, stress, and locomotor activity) and complex or potentially complex physiologic phenotypes (including differences in organ weight and bone mineral density).

### GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>F29+20</td>
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<td>(2020-04-29 00:00:00)</td>
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</table>

### RESEARCH APPLICATIONS

Research Tools

### BASE PRICE

Starting at:

$139.90 Domestic price for female 4-week
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. BXD65/RwwJ, BXD97/RwwJ (Stock No. 007140) and BXD92/RwwJ (Stock No. 009677) 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. BXD65/RwwJ is designated the primary strain, and the name will not be changed. BXD97/RwwJ is now designated BXD65a/RwwJ and BXD92/RwwJ is now designated BXD65b/RwwJ. In general, the "sister" strain (the one 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.

Currently there are no related genes or alleles for this strain.
Genotyping Protocols
*Genotyping resources and troubleshooting*

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

**Breeding Considerations**
This strain is a poor breeder.

**Additional Breeding and Husbandry Support**

**Mating System**
Sibling x Sibling

**Appearance**
brown

**Related Genotype:** $a/a$ $Tyrp1^b/Tyrp1^b$

**Citation**
When using the BXD65/RwwJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #007110 in your Materials and Methods section.

### Animal Health Reports

**Facility Barrier Level Descriptions**

- AX10 (Standard)
Live mice available in varying quantities. Ask Customer Service for details.

Available

Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
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<td>Male</td>
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<td>$139.90</td>
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<td>5 weeks</td>
<td>Female</td>
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<td></td>
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<td>$139.90</td>
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<tr>
<td>6 weeks</td>
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<td></td>
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<tr>
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<td></td>
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<td></td>
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<tr>
<td></td>
<td>Male</td>
<td>Not Applicable</td>
<td>$139.90</td>
</tr>
</tbody>
</table>

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Licensing Information

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

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains