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>
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<tbody>
<tr>
<td></td>
<td>F17+26</td>
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<td>(2020-04-29 00:00:00)</td>
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**RESEARCH APPLICATIONS**

**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.

A 27 SNP (single nucleotide polymorphism) panel analysis, with 27 markers covering all 19 chromosomes and the X chromosome, was performed on the rederived living colony after five generations of inbreeding at The Jackson Laboratory Repository. This identified one marker on chromosome 1 (~89 Mbp) that was not fixed for C57BL/6J allele-type (e.g.: still segregating for DBA/2J allele-type markers).

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 (Stock No. 007117), BXD80/Rww (Stock No. 007124) and BXD103/Rww 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.
Currently there are no related genes or alleles for this strain.

- **Disease/Phenotype**
- **Disease Terms**
- **Research Areas By Phenotype**
- **Mammalian Phenotype Terms by Genotype**
- **Phenotype Information**
- **References**

- **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 BXD73b/RwwJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #007146 in your Materials and Methods section.

  **Animal Health Reports**
  Facility Barrier Level Descriptions
  - AX10 (Standard)

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

Available

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
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<th>PRICE</th>
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<tr>
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<td>Not Applicable</td>
<td>$139.90</td>
</tr>
</tbody>
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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