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

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>F7+34</td>
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<td>(2020-04-29 00:00:00)</td>
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</tbody>
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RESEARCH APPLICATIONS

Research Tools

BASE PRICE

Starting at:

$139.90 Domestic price for female 4-week

Live mice available in varying quantities. Ask Customer Service for details.
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/Rww (Stock No. 007110), BXD92/Rww (Stock No. 009677) and BXD97/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. BXD65/Rww is designated the primary strain, and the name will not be changed. BXD97/Rww is now designated BXD65a/Rww and BXD92/Rww is now designated BXD65b/Rww. 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)

Mating System
Sibling x Sibling
Appearance
brown
Related Genotype: a/a Tyrp1^b/Tyrp1^b

Citation
When using the BXD65a/RwwJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #007140 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.

Domestic
International
Live Mouse

<table>
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<th>AGE</th>
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</tr>
<tr>
<td>6 weeks</td>
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<tr>
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</tbody>
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Related Products and Services

| Frozen Mouse Embryo | BXD65a/RwwJ Frozen Embryos | $2595.00 |

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.

The Jackson Laboratory's Genotype Promise

The Jackson Laboratory has rigorous genetic quality control and mutant gene 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.
Terms Of Use

General Terms and Conditions

Additional Use Restrictions Apply

Use of MICE by companies or for-profit entities requires a license prior to shipping.

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