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.
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.

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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. BXD48/RwwJ (Stock No. 007097) and BXD96/RwwJ were found to be highly similar in their overall genomes, but with particular chromosomes differing between them. We have renamed one of these sister strains to reflect the genetic similarity. BXD48/RwwJ is designated the primary strain, and the name will not be changed. BXD96/RwwJ is now designated BXD48a/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.
Genetics

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
black

Related Genotype: a/a

Citation
When using the BXD48a/RwwJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #007139 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

FGB29 (Standard)

Pricing & Availability

Live mice available in varying quantities. Ask Customer Service for details.

Domestic
Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse
**Related Products and Services**

| Frozen Mouse Embryo | BXD48a/RwwJ Frozen Embryos | $2595.00 |

<table>
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<th>AGE</th>
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<td></td>
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