Overview

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

Genetic Background

Generation

F36+F22
(2019-10-04 00:00:00)

RESEARCH APPLICATIONS

Research Tools
Details

Detailed Description
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.

Development

Selected References

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
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 Tyrp1b/Tyrp1b Myo5a+/Myo5a+

Citation
When using the BXD75/RwwJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #007119 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.

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<tr>
<th>AGE</th>
<th>SEX</th>
<th>PRICE</th>
</tr>
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<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>$139.90</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>$139.90</td>
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Related Products and Services
Frozen Mouse Embryo
BXD75/RwwJ Frozen Embryos $2595.00
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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains
Leading the search for
TOMORROW'S CURES