

BXD73a/RwwJ

Stock No: **007124**

 Recombinant Inbred (RI)

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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).

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GENETIC OVERVIEW

Genetic Background

Generation

F27+26

(2020-04-29 00:00:00)

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BASE PRICE

Starting at:

\$139.90 Domestic price for female 4-week

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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](#) .

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/RwwJ (Stock No. 007117), BXD80/RwwJ and BXD103/RwwJ (Stock No. 007146) 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/RwwJ is designated the primary strain, and the name will not be changed. BXD80/RwwJ is now designated BXD73a/RwwJ and BXD103/RwwJ is now designated BXD73b/RwwJ. 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](#) .

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](#)

[+ Phenotype Information](#)

[+ References](#)

⊖ Technical Support

C O N T A C T T E C H N I C A L S U P P O R T

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 BXD73a/RwwJ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007124 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX10 \(Standard\)](#)

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AGE		SEX	PRICE
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		Male	\$139.90
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7 weeks		Female	\$139.90
		Male	\$139.90
8 weeks		Female	\$139.90
		Male	\$139.90
9 weeks		Female	\$139.90
		Male	\$139.90
10 weeks		Female	\$139.90
		Male	\$139.90
11 weeks		Female	\$139.90
		Male	\$139.90
12 weeks		Female	\$139.90
		Male	\$139.90

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	BXD73a/RwwJ Frozen Embryos	\$2595.00
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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. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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All

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By Gene

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