The BXH set of RI strains is used in the genetic analysis of numerous complex or potentially complex physiologic phenotypes including differences in thyroid function (Graves' disease), bone mineral density, atherosclerosis and leukemia. The BXH set is derived from the C57BL/6J (Stock No. 000664) and C3H/HeJ (Stock No. 000659) progenitor strains.

### GENETIC OVERVIEW

#### Genetic Background

<table>
<thead>
<tr>
<th>Generation</th>
<th>Date</th>
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<tbody>
<tr>
<td>F147+46</td>
<td>2019-12-17</td>
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#### Allele Type

<table>
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<tr>
<th>QTL</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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</thead>
<tbody>
<tr>
<td>Micr</td>
<td>micr</td>
<td>microwave induced increase in complement receptor B cells</td>
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</tbody>
</table>

### RESEARCH APPLICATIONS

Research Tools

### BASE PRICE

Starting at:

$139.90 Domestic price for female
Details

Detailed Description

The BXH set of RI strains is used in the genetic analysis of numerous complex or potentially complex physiologic phenotypes including differences in thyroid function (Graves’ disease), bone mineral density, atherosclerosis and leukemia. A SNP data set is available through the Mouse Phenome Database for the BXH strains. Another BXH genotype data set consists of 472 MIT CA-repeat dinucleotide microsatellite markers that were typed at UTHSC from 1998 through 2000. The file is taken directly from Williams and colleagues (2001) without any significant modification in genotypes. This order of markers has been updated to conform to the March 2005 assembly of the mouse genome (Build 34 or UCSC mm6). The data set may be downloaded from the University of Tennessee Gene Network site. A data set from Mouse Genome Informatics Contributed Data Sets is also available.

Tools for using the RI set are presented through the Mouse Phenome Database Specialized Strain Panel Query Form, and Gene Network.

Development

Selected References

Genetics

MicrR

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

Phenotype Information
Genotyping Protocols
Genotyping resources and troubleshooting
Dietary Information
LabDiet® 5K52 formulation (6% fat)

Mating System
Sibling x Sibling
Appearance
agouti
Related Genotype: A/A

Citation
When using the BXH9/TyJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #000008 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.

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>PRICE</th>
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<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>$139.90</td>
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<tr>
<td></td>
<td>Male</td>
<td>$139.90</td>
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General Terms and Conditions

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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