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>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td><em>Irf8</em></td>
<td>interferon regulatory factor 8</td>
</tr>
</tbody>
</table>

**RESEARCH APPLICATIONS**

**Research Tools**

**BASE PRICE**

Starting at:

$2,854.50 Domestic price Cryo Recovery
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.

BXH2 is susceptible to M. bovis (tuberculosis) and malaria infections despite Nramp1 resistance due to an Icsbp1 (Irf8) mutation. (P Gros and colleagues).

Selected References

Genetics

Irf8

Disease/Phenotype

Disease Terms
Genotyping Protocols
Genotyping resources and troubleshooting

Appearance
black
Related Genotype: a/a

Citation
When using the BXH2/TyJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #000034 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

Cryo Recovery
Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

<table>
<thead>
<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
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<tbody>
<tr>
<td>Cryorecovery</td>
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</table>
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. 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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- Yes
- No