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**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Micr</strong>&lt;sup&gt;R&lt;/sup&gt;</td>
<td></td>
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</tbody>
</table>

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

**RESEARCH APPLICATIONS**

Research Tools

**BASE PRICE**

Starting at: $2,854.50 Domestic price Cryo Recovery
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

Micr\textsuperscript{R}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

Phenotype Information
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

Appearance
black
Related Genotype: a/a
Citation
When using the BXH4/TyJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #000011 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

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

| Cryo Recovery - Domestic Pricing |
|-------------------------------|---------------------------------|------------------|
| SERVICE/PRODUCT | DESCRIPTION | PRICE |
| Cryo Recovery | Inbred, 1 pair minimum will be supplied | $2,854.50 |

Related Products and Services

| Frozen Mouse Embryo | BXH4/TyJ Frozen Embryos | $2595.00 |
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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.

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Email: TechTran@jax.org

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Please note specific policy for live mice.
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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains

- **A/J**
  - Stock No: 000646
  - Related By: **Mcrf**

- **BALB/cJ**
  - Stock No: 000651
  - Related By: **Mcrf**

- **C57BL/6J**
  - Stock No: 000664
  - Related By: **Mcrf**