The CXB 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) and pulmonary inflammation as well as behavioral phenotypes including avoidance, exploration and locomotor activity. The CXB set is derived from the BALBc/ByJ (Stock No. 001026) and C57BL/6ByJ (Stock No. 001139) progenitor strains.

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

**Ahr**<sup>b-1</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>Ahr</td>
<td>aryl-hydrocarbon receptor</td>
</tr>
</tbody>
</table>

**RESEARCH APPLICATIONS**

Research Tools
Neurobiology Research
Metabolism Research

**BASE PRICE**
Starting at:
Details

Detailed Description
The CXB 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) and pulmonary inflammation as well as behavioral phenotypes including avoidance, exploration and locomotor activity.

The CXB set is so small that markers on different chromosomes occasionally have almost precisely the same SDP. This produces high non-syntenic association and false linkage between variance in phenotypes and genotypes. Please examine the correlation coefficients of markers close to interest loci with ALL other markers to evaluate the risk of non-syntenic association.

The strain distribution pattern (SDP) for the CXB 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

Genetics

$Ahr^{b-1}$

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype
Technical Support

Genotyping Protocols
Genotyping resources and troubleshooting

Appearance
chocolate brown
Related Genotype: \( a/a \) \( Tyrp1^b/Tyrp1^b \) \( Tyr^+ /Tyr^+ \)

Citation
When using the CXB6/ByJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #000356 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.

<table>
<thead>
<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Inbred, 1 pair minimum will be supplied</td>
<td>$2,854.50</td>
</tr>
</tbody>
</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

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Terms Of Use

Terms Of Use

General Terms and Conditions

Licensing Information

Phone: 207-288-6470
Email: TechTran@jax.org

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains