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>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Hld</td>
<td>hippocampal lamination defect</td>
</tr>
<tr>
<td>Not Applicable</td>
<td>Ahr</td>
<td>aryl-hydrocarbon receptor</td>
</tr>
<tr>
<td>Spontaneous</td>
<td>Crb1</td>
<td>crumbs family member 1, photoreceptor morphogenesis associated</td>
</tr>
</tbody>
</table>

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

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.

Like BALB/cByJ, this recombinant inbred carries the mutation hippocampal lamination defect or \textit{Hld}, an allele responsible for abnormal neuronal migration to the pyramidal cell layer (Nowakowski RS, et al, Jnl Neurogen, 1984).
Genetics

Hld

Ahb⁻²

Crb₁rd₈

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

Phenotype Information

References

Technical Support

Genotyping Protocols
Genotyping resources and troubleshooting

Appearance
albino
Related Genotype: A/A Tyrp₁ᵇ /Tyrp₁ᵇ  Tyrᶜ /Tyrᶜ

Citation
When using the CXB3/ByJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #000353 in your Materials and Methods section.
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.

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

### 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.

## Terms Of Use

### TERMS OF USE

General Terms and Conditions

**QUESTIONS ABOUT TERMS OF USE**