BUB/BnJ

Stock No: 000653

Inbred Strain

CRYO RECOVERY

PLACE ORDER

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

BUB/BnJ mice carry a specific T cell receptor V beta mutation, making this strain highly susceptible to collagen-induced arthritis. Mice are also reported to have high serum complement activity. BUB/BnJ mice are homozygous for the Mass1frings allele (monogenic, audiogenic seizure susceptibility 1) and are susceptible to audiogenic seizures prior to 25 days of age. They also have early onset hearing impairment by 3-4 weeks of age.

READ MORE +

GENETIC OVERVIEW

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

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Neurobiology Research
Sensorineural Research
Research Tools
Mouse/Human Gene Homologs

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

$2,595.00 Domestic price Cryo Recovery

VIEW PRICE LIST
**Important Note**
This strain is homozygous for Cdh23^{ahl} and Pde6b^{rd1}. The ahl mutation accounts for progressive hearing loss (complete deafness by two to three months). See article “Genetic Background Effects: Can Your Mice See?”, JAX* NOTES Spring 2002, No. 485.

**Detailed Description**
BUB/BnJ mice carry a specific T cell receptor V beta mutation, making this strain highly susceptible to collagen-induced arthritis. This T cell receptor V beta restriction works in concert with other uncharacterized modifying genes present in BUB/BnJ mice. BUB/BnJ mice carry no detectable endogenous ecotropic MuLV DNA sequences. Mice are also reported to have high serum complement activity. In response to challenge, BUB/BnJ mice develop immune-mediated nephritis characterized by proteinuria, glomerulonephritis and tubulointerstitial disease (Xie et al., 2004).

BUB/BnJ mice are homozygous for the Adgrv1^{frings} allele (monogenic, audiogenic seizure susceptibility 1) and are susceptible to audiogenic seizures prior to 25 days of age (Skradski, et al 2001). In addition, the Adgrv1^{frings} allele accounts for early onset hearing impairment by 3-4 weeks of age (Johnson KR, et al 2005).

**Development**

**Selected References**

**Genetics**

- **Il3ra^{a1}**
- **Cdh23^{ahl}**
- **Mx1^{s1}**
- **Ahr^{b-2}**
- **Pde6b^{rd1}**
- **Adgrv1^{frings}**

**Disease/Phenotype**

**Disease Terms**

**Research Areas By Genotype**

**Mammalian Phenotype Terms by Genotype**

**Phenotype Information**

**References**
Genotyping Protocols
Genotyping resources and troubleshooting

Mating System
Sibling x Sibling

Appearance
albino
Related Genotype: a/a Tyr<sup>c</sup>/Tyr<sup>c</sup>

Citation
Animal Health Reports
When using the BUB/BnJ mouse strain in a publication, please include JAX stock #000653 in your Materials and Methods section.
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>Cryo Recovery - Domestic Pricing</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Inbred</td>
<td>$2,595.00</td>
</tr>
</tbody>
</table>

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. **Please check genotypes which will be recovered.** While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. **Animals are typically ready to ship in 11-14 weeks.** If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryo recovery to establish a **Dedicated Supply** for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

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.

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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.

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**Terms Of Use**

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**General Terms and Conditions**

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**Licensing Information**

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

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By Allele

By Gene

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