DBA/1J

Stock No: 000670

Inbred Strain

READILY AVAILABLE

PLACE ORDER
Sized to accommodate orders of up to 100 or more. Ask Customer Service for details.

Overview
Also Known As: D1, DBA1

DBA/1J mice are widely used as a model for rheumatoid arthritis: immunization with type II collagen leads to the development of severe polyarthritis mediated by an autoimmune response. DBA/1J mice show an intermediate susceptibility to developing atherosclerotic aortic lesions on an atherogenic diet. In response to challenge, DBA/1J mice develop immune-mediated nephritis characterized by proteinuria, glomerulonephritis and tubulointerstitial disease.

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Contact Technical Support</td>
</tr>
<tr>
<td></td>
<td>(2018-07-27 00:00:00)</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

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

BASE PRICE

Starting at:

$40.89 Domestic price for female 3-week

Volume Pricing Available!

for select shipping destinations
Click for Details

Details

Important Note

This strain is homozygous for Cdh23<sup>ahl</sup>, the age related hearing loss 1 mutation, which on this background results in progressive hearing loss with onset after 10 months of age.

Detailed Description
DBA/1J mice are widely used as a model for rheumatoid arthritis: immunization with type II collagen leads to the development of severe polyarthritis mediated by an autoimmune response. The incidence of collagen induced arthritis varies by experimental protocol, but is less than 100%. Similar to the human condition, mice with collagen-induced arthritis display synovitis and erosions of cartilage and bone. In addition, susceptibility in both humans and mice is linked to the expression of specific MHC class II molecules. DBA/1J mice show an intermediate susceptibility to developing atherosclerotic aortic lesions on an atherogenic diet. In response to challenge, DBA/1J mice develop immune-mediated nephritis characterized by proteinuria, glomerulonephritis and tubulointerstitial disease (Xie et al., 2004). There is high incidence of calcified lesions of the tongue with age. This strain is among the least responsive to phytohemagglutinin (Heiniger et al., 1975).

**Development**

**Selected References**

**Genetics**

- **Gpr84**
- **Rmcf**
- **P2rx7**
- **Tyrp1**
- **Cd23**
- **Cd5**
- **Cox7a2**
- **Myo5a**

**Disease/Phenotype**

**Disease Terms**

**Research Areas By Genotype**

**Mammalian Phenotype Terms by Genotype**

**Phenotype Information**

**References**

**Technical Support**
### Genotyping Protocols

Genotyping resources and troubleshooting

Inbred mouse strains are maintained through sibling (sister x brother) matings; no genotyping required.

### Dietary Information

LabDiet® 5K52 formulation (6% fat)

### Breeding Considerations

**This strain is a good breeder.**

Additional Breeding and Husbandry Support

**Mating System**

Sibling x Sibling

**Appearance**

dilute brown

Related Genotype: a/a Tyrp<sup>1b</sup>/Tyrp<sup>1b</sup> Myo5a<sup>d</sup>/Myo5a<sup>d</sup>

**Citation**

When using the DBA/1 mouse strain in a publication, please include JAX stock #000670 in your Materials and Methods section.

### Animal Health Reports

### Pricing & Availability

Sized to accommodate orders of up to 100 or more. Ask Customer Service for details.

### Domestic

Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>LIVE MOUSE</th>
<th>SEX</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 weeks</td>
<td>Female</td>
<td>$40.89</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>$41.44</td>
</tr>
<tr>
<td>4 weeks</td>
<td>Female</td>
<td>$40.89</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>$41.44</td>
</tr>
<tr>
<td>5 weeks</td>
<td>Female</td>
<td>$42.95</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>$44.07</td>
</tr>
<tr>
<td>6 weeks</td>
<td>Female</td>
<td>$45.79</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>$44.95</td>
</tr>
<tr>
<td>7 weeks</td>
<td>Female</td>
<td>$45.79</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>$45.60</td>
</tr>
</tbody>
</table>
### Volume Pricing Details

<table>
<thead>
<tr>
<th>QUANTITY</th>
<th>VOLUME PRICING</th>
</tr>
</thead>
<tbody>
<tr>
<td>125</td>
<td>10% off</td>
</tr>
</tbody>
</table>

**Volume Pricing Program**
Quantities: Volume pricing is automatically applied when a minimum quantity per strain for a shipment is reached.
Sexes: Sexes of the same strain may be combined to reach minimum quantity levels to receive the volume pricing.
Shipment: All shipping destinations qualify.

**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.

### Terms Of Use

**Terms of Use**
**General Terms and Conditions**

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

**JAX® Mice, Products & Services Conditions of Use**
“MICE” means mouse strains, their progeny derived by inbreeding or crossbreeding, unmodified derivatives from mouse strains or their progeny supplied by The Jackson Laboratory (“JACKSON”). “PRODUCT(S)” means biological materials supplied by JACKSON, and their derivatives. “SERVICES” means projects conducted by JACKSON for other parties that may include but are not limited to the use...
No Warranty
MICE, PRODUCTS AND SERVICES ARE PROVIDED "AS IS". JACKSON EXTENDS NO WARRANTIES OF ANY KIND, EITHER EXPRESS, IMPLIED, OR STATUTORY, WITH RESPECT TO MICE, PRODUCTS OR SERVICES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF NON-INFRINGEMENT OF ANY PATENT, TRADEMARK, OR OTHER INTELLECTUAL PROPERTY RIGHTS.

Credit for PRODUCTS or SERVICES
In case of dissatisfaction for a valid reason and claimed in writing by a purchaser within ninety (90) days of receipt of, PRODUCTS or SERVICES, JACKSON will, at its option, provide credit or replacement for the PRODUCT received or the SERVICES provided; JACKSON makes no other representations and this shall be the exclusive remedy of the purchaser. Please note specific policy for live mice.

Animal Care and Use for SERVICES
Consistent with the requirement for a written understanding regarding animal care and use, the JACKSON Animal Care and Use Committee will review the animal care and use protocol(s) associated with any SERVICES to be performed at JACKSON, and JACKSON shall have ultimate responsibility and authority for the care of animals while on site or in JACKSON custody.

No Liability
In no event shall JACKSON, its trustees, directors, officers, employees, and affiliates be liable for any causes of action or damages, including any direct, indirect, special, or consequential damages, arising out of the provision of MICE, PRODUCTS, or SERVICES, including economic damage or injury to property and lost profits, and including any damage arising from acts or negligence on the part of JACKSON, its agents or employees. Unless prohibited by law, in purchasing or receiving MICE, PRODUCTS, or SERVICES from JACKSON, purchaser or recipient, or any party claiming by or through them, expressly releases and discharges JACKSON from all such causes of action or damages, and further agrees to defend and indemnify JACKSON from any costs or damages arising out of any third party claims.

MICE, PRODUCTS or SERVICES are to be used in a safe manner and in accordance with all applicable governmental rules and regulations.

The foregoing represents the General Terms and Conditions applicable to JACKSON's MICE, PRODUCTS or SERVICES. In addition, special terms and conditions of sale of certain MICE, PRODUCTS, or SERVICES may be set forth separately in JACKSON web pages, catalogs, price lists, contracts, and/or other documents, and these special terms and conditions shall also govern the sale of these MICE, PRODUCTS and SERVICES by JACKSON, and by its licensees and distributors. Acceptance of delivery of MICE, PRODUCTS or SERVICES shall be deemed agreement to these terms and conditions. No purchase order or other document transmitted by purchaser or recipient that may modify the terms and conditions hereof, shall be in any way binding on JACKSON, and instead the terms and conditions set forth herein, including any special terms and conditions set forth separately, shall govern the sale of MICE, PRODUCTS or SERVICES by JACKSON.
Leading the search for
TOMORROW'S CURES