SWR/J

Stock No: 000689

Inbred Strain

AVAILABLE NOW

PLACCE ORDER

Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.

Overview

Also Known As: SW, swiss

SWR/J mice are used widely in research as a general purpose strain. Aging mice exhibit a high incidence of lung and mammary gland
tumors. They also develop extreme polydipsia and polyuria (nephrogenic diabetes insipidus) with increasing age. SWR/J mice are highly susceptible to experimental allergic encephalomyelitis. SWR/J mice show an intermediate susceptibility to developing atherosclerotic aortic lesions following an atherogenic diet. SWR/J mice are useful for creation of transgenic mice because they are high responders to exogenous hormones and have large and prominent pronuclei with good resistance to lysis following microinjection. SWR/J mice appear to be the only inbred carrying the allele Soa6 (Taster) characterized by avoidance of sucrose octaacetate solutions at low concentrations.

**RESEARCH APPLICATIONS**
Metabolism Research
Research Tools
Immunology, Inflammation and Autoimmunity Research
Sensorineural Research
Mouse/Human Gene Homologs
Diabetes and Obesity Research
Developmental Biology Research
Cancer Research

**BASE PRICE**
Starting at:
$112.53 Domestic price for male 3-week

**Details**

**Important Note**
This strain is homozygous for the retinal degeneration allele Pde6b<sup>rd1</sup>.

**Detailed Description**

SWR/J mice are used widely in research as a general purpose strain. Aging mice exhibit a high incidence of lung and mammary gland tumors. They also develop extreme polydipsia and polyuria (nephrogenic diabetes insipidus) with increasing age. SWR/J mice are highly susceptible to experimental allergic encephalomyelitis (EAE). Germline deletion of about 50% of T-cell receptor V beta-chain...
gene segments and a T-cell receptor V alpha polymorphism are responsible for the resistance of SWR/J mice to collagen type II-induced arthritis. SWR/J mice show an intermediate susceptibility to developing atherosclerotic aortic lesions (1670 to 1690 \( \text{um}^2 \)) atherosclerotic aortic lesions/aortic cross-section) following 14 weeks on an atherogenic diet (1.25% cholesterol, 0.5% cholic acid and 15% fat). SWR/J mice have been recommended for generation and propagation of transgenic mice because they are high responders to exogenous hormones, have large and prominent pronuclei with good resistance to lysis following microinjection, and are genetically well-defined. SWR/J mice may also be used as controls for comparison to the autoimmune diabetic NOD/ShiLtJ mice (Stock No. 001976), especially for experiments examining the aberrant immune functions of NOD/ShiLtJ mice. Both NOD and SWR/J mice are derived from Swiss mice. SWR/J are in some cases more suitable than random bred Swiss ICR mice because of their genetic uniformity. Unlike NOD/ShiLtJ mice they are not immunocompromised, and they are genetically very different from NOD. SWR/J mice appear to be the only inbred carrying the allele Soa\(^d\) (Taster) characterized by avoidance of sucrose octaacetate solutions at low concentrations (\(< 10^{-3}\text{M})\).
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 an exceptional breeder.

Additional Breeding and Husbandry Support

Mating System
Sibling x Sibling

Appearance
albino
Related Genotype: A/A TyrC/TyrC

Citation
When using the SWR/J mouse strain in a publication, please include JAX stock #000689 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level descriptions
- AXS (Standard)

Pricing & Availability

Available Now
Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 weeks</td>
<td>Female</td>
<td>Not Applicable</td>
<td>$118.56</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Not Applicable</td>
<td>$112.53</td>
</tr>
<tr>
<td>4 weeks</td>
<td>Female</td>
<td>Not Applicable</td>
<td>$118.56</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Not Applicable</td>
<td>$112.53</td>
</tr>
<tr>
<td>5 weeks</td>
<td>Female</td>
<td>Not Applicable</td>
<td>$118.56</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Not Applicable</td>
<td>$112.53</td>
</tr>
<tr>
<td>6 weeks</td>
<td>Female</td>
<td>Not Applicable</td>
<td>$122.01</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Not Applicable</td>
<td>$115.98</td>
</tr>
<tr>
<td>7 weeks</td>
<td>Female</td>
<td>Not Applicable</td>
<td>$125.46</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Not Applicable</td>
<td>$119.43</td>
</tr>
<tr>
<td>8 weeks</td>
<td>Female</td>
<td>Not Applicable</td>
<td>$128.91</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Not Applicable</td>
<td>$122.88</td>
</tr>
<tr>
<td>9 weeks</td>
<td>Female</td>
<td>Not Applicable</td>
<td>$132.36</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Not Applicable</td>
<td>$126.33</td>
</tr>
<tr>
<td>10 weeks</td>
<td>Female</td>
<td>Not Applicable</td>
<td>$135.81</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
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 of MICE or PRODUCTS. “RECIPIENT” means each recipient of MICE, PRODUCTS, or SERVICES provided by JACKSON including each institution, its employees and other researchers under its control. MICE or PRODUCTS shall not be: (i) used for any purpose other than internal research, (ii) sold or otherwise provided to any third party for any use, or (iii) provided to any agent or other third party to provide breeding or other services. Acceptance of MICE, PRODUCTS or SERVICES from JACKSON shall be deemed as agreement by RECIPIENT to these conditions, and departure from these conditions requires JACKSON’s prior written authorization.

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
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.