Overview

Also Known As: Scaredy cat

Mice carrying this spontaneous mutation of the Down syndrome cell adhesion molecule exhibit degeneration of spinal joints, dystrophic axons in the lumbar spinal cord, small areas of degenerating epaxial skeletal muscle, and disorganization of inner nuclear and retinal ganglion layers. These mice may be useful for studies of neural development.
**GENETIC OVERVIEW**

**Genetic Background**  
**Generation**

| Dscam$^{2J}$ |  
|----------------|----------------|
| **Allele Type** | **Gene Symbol** | **Gene Name** |
| Spontaneous | Dscam | DS cell adhesion molecule |

**RESEARCH APPLICATIONS**

Neurobiology Research  
Sensorineural Research  
Developmental Biology Research

**BASE PRICE**

Starting at:  
$2,854.50 Domestic price Cryo Recovery

---

Mice homozygous for the *Dscam*$^{2J}$ mutation can be identified as early as 2 days of age resting on their backs instead of their stomachs and struggling to maintain balance. They develop overt thoracic kyphosis and a domed skull and appear to walk on their toes. Homozygotes fail swim tests wherein they are unable to swim in a straight line, curl up their bodies, and sink to the bottom. However, they have normal auditory brain stem responses indicative of normal cochlear hair cell function and connectivity. Degeneration of spinal joints, dystrophic axons in the lumbar spinal cord and small areas of degenerating epaxial skeletal muscle are found in aging homozygotes. On this background, in the presence of the *Pde6b*$^{rd1}$ mutation, the inner nuclear layer and retinal ganglion layer are disorganized, a phenotype beyond the retinal degeneration inherent in the background. Additionally, the dopaminergic amacrine cells have fasciculated neurites and are organized in clumps instead of mosaics. When bred onto a C3H background that lacks the *Pde6b*$^{rd1}$ mutation, it was revealed that homozygotes have defective lamination of the processes of cholinergic, calbindin-positive, and nitric oxide synthetase 1-positive amacrine cells in the retina and that distinct from *Dscam*$^{del17}$ homozygotes the central calbindin-positive amacrine cell band loses organized lamination so that three distinct calbindin-positive bands are not found. It is noteworthy that on this C3H inbred background homozygotes survive to adulthood, while other mutations of this gene on the C57BL/6J background suffer postnatal lethality which is diminished by the introduction of hybrid vigor.
Genotyping Protocols
Genotyping resources and troubleshooting

Citation
When using the Scaredy cat mouse strain in a publication, please cite the originating article(s) and include JAX stock #006038 in your Materials and Methods section.

Animal Health Reports
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

<table>
<thead>
<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Dscam&lt;2J&gt;</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

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 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.

**Related Strains**

- All
- By Allele
- By Gene
- By Collection

All Related Strains

▲

▼