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.
### RESEARCH APPLICATIONS

- Neurobiology Research
- Sensorineural Research
- Developmental Biology Research

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### BASE PRICE

**Starting at:**

$2,854.50 Domestic price

**Cryo Recovery**

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### Details

- **Detailed Description**

Mice homozygous for the \textit{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 \textit{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 \textit{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 \textit{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
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.
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.

Cryorecovery 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.

Terms Of Use
Terms of Use
General Terms and Conditions

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

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