Mice homozygous for this spontaneous mutation become severely uncoordinated by postnatal day 3, developing spontaneous seizures and kyphosis. On the C57BL/6 background, homozygotes exhibit a severe phenotype and die shortly after birth. Retinal amacrine cells display defects in the arborization of processes and spacing of cell bodies. This mutant mouse strain may be useful in studies of the retina and the mechanism of neuronal self-avoidance.

Donating Investigator
**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>000664 C57BL/6J</td>
<td>000664 C57BL/6J</td>
</tr>
</tbody>
</table>

**Dscam**<sup>del17</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Dscam</td>
<td>DS cell adhesion molecule</td>
</tr>
</tbody>
</table>

**RESEARCH APPLICATIONS**

Neurobiology Research  
Sensorineural Research

**BASE PRICE**

Starting at:  
$2,854.50 Domestic price Cryo Recovery

**Important Note**

This C57BL/6 strain is homozygous for the age related hearing loss mutation Cdh23<sup>ahl</sup>, which on this background causes progressive hearing loss with onset after 10 months of age.

**Detailed Description**

Mice homozygous for this spontaneous mutation become severely uncoordinated by postnatal day 3, developing spontaneous seizures and kyphosis. On a mixed BALB/cBy and C57BL/6 background some homozygotes survive, are fertile and have a normal lifespan. On the C57BL/6 background, homozygotes exhibit a more severe phenotype and die shortly after birth.

With the exception of the caudal folium of the cerebellum, the central nervous system appears normal on a gross level, however, the retinal ganglion cell layer and inner plexiform layer exhibit disorganization by postnatal day 4. Retinal amacrine cells display defects in the arborization of processes and spacing of cell bodies. This mutant mouse strain may useful in studies of the retina and the mechanism of neuronal self-avoidance.
Genotyping Protocols
Standard PCR: Dscam
Genotyping resources and troubleshooting

Breeding Considerations
Most homozygotes die at or shortly after birth.
Additional Breeding and Husbandry Support

Appearance
black
Related Genotype: a/a

Citation
When using the B6.CBy-Dscam(del17)/RwbJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #008000 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.

<table>
<thead>
<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or Wild-type for Dscam&lt;del17&gt;</td>
<td>$2,854.50</td>
</tr>
<tr>
<td>Frozen Mouse Embryo</td>
<td>B6.CBy-Dscam&lt;del17&gt;/RwbJ</td>
<td>$2,955.00</td>
</tr>
</tbody>
</table>

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Phone: 207-288-6470
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