CXB10 / HA Adn a^sm1/J Gtsr J

Stock No: 016887

Coisogenic, Recombinant Inbred (RI), Spontaneous Mutation

CRYO RECOVERY

PLACE ORDER

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Overview
This spontaneous mutant has a neurological defect causing ataxia, difficulty righting, and small body size.

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>001631 CXB10/H4AJ</td>
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</tbody>
</table>

**Cacna1asmrI**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Cacna1a</td>
<td>calcium channel, voltage-dependent, P/Q type, alpha 1A subunit</td>
</tr>
</tbody>
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**RESEARCH APPLICATIONS**

- Neurobiology Research
- Developmental Biology Research
- Reproductive Biology Research

**BASE PRICE**

Starting at:

$2,854.50 Domestic price Cryo Recovery

**Details**

Mice homozygous for the spontaneous recessive small roller mutation can usually be identified by 2 weeks of age by their difficulty in walking, which persists into adulthood. The hind legs splay, the gait has a severe side-to-side sway with the body held lower than normal, and homozygotes often tumble over. They have difficulty righting. Homozygotes are also smaller than normal, half normal size at wean age and growing to three quarters normal size as adults. Homozygous females have smaller than normal litter sizes, often produce fewer than expected numbers of homozygotes, and have a high number of stillborn and lost newborns. Heterozygous intercrosses also produce a high number of stillborn and lost newborns. Male homozygotes might not be fertile.

**Development**

**Control Suggestions**
Genotyping Protocols
Sanger sequencing: Cacna1a
Genotyping resources and troubleshooting

Breeding Considerations
Due to the fragility and diminutive size of homozygous pups, meal should be placed within easy reach and weaning should be delayed beyond the usual three week wean age. Homozygous females will breed, but have reduced litter size and increased stillborn and pre-wean death of pups. Homozygous males have not been found to breed. This strain can be maintained through progeny tested heterozygotes.

Additional Breeding and Husbandry Support

Citation
When using the CXB10/HiAJ-Cacna1asmr/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #016887 in your Materials and Methods section.

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.
Frozen Mouse Embryo
CXB10/HiAJ-Cacna1a<smrl>/GrsrJ
$2595.00

Payment Terms and Conditions
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- All
- By Allele
- By Gene
- By Collection

All Related Strains