Overview

These mice carry a spontaneous mutation at the Cacna1a locus characterized by a wobbly gait and intermittent, spontaneous seizures.

Genetic Overview

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

**Cacna1a**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous (Not Specified)</td>
<td>Cacna1a</td>
<td>calcium channel, voltage-dependent, P/Q type, alpha 1A subunit</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

- Neurobiology Research
- Mouse/Human Gene Homologs
- Cell Biology Research

BASE PRICE

Starting at: ...
Mice homozygous for the tottering spontaneous mutation (Cacna1a\textsuperscript{tg}) are characterized by a wobbly gait beginning at around 3 to 4 weeks of age and affecting, particularly, the hindquarters and by intermittent, spontaneous seizures. The seizures are of two kinds: i) Sudden arrests of movement (behavioral absence seizures) begin at about 3 weeks and are accompanied by abnormal bursts of bilaterally synchronous spike waves in ECG; they last about 0.3 to 10 seconds, occur hundreds of times per day, and continue throughout life; ii) Stereotyped partial motor seizures begin at about 4 weeks and are accompanied by abnormal ECG activity; they last 20 to 30 minutes, occur once or twice a day, and persist throughout life. Homozygous mutant mice of both sexes are fertile, but breeding performance is poor.

Leaner/tottering heterozygotes (Cacna1a\textsuperscript{tg-tg}/Cacna1a\textsuperscript{tg}) show ataxia, stiffness, and retarded motor activity at 15 to 17 days of age. Within a few days, they develop a wobbly gait and intermittent focal seizures which continue throughout life.
Genotyping Protocols
Separated PCR: Cacna1a
Genotyping resources and troubleshooting

Appearance
black, ataxic
Related Genotype: a/a Cacna1a<tg> / Cacna1a<tg>

black, unaffected
Related Genotype: a/a +/? or a/a Cacna1a<tg> / +

Citation
When using the tottering mouse strain in a publication, please cite the originating article(s) and include JAX stock #000544 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>Cryo Recovery - Domestic Pricing</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous for Cacna1a&lt;tg&gt;</td>
<td>$2,854.50</td>
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</table>

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All

By Allele

By Gene

By Collection

All Related Strains
Leading the search for
TOMORROW'S CURES

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Did you find what you were looking for?
- Yes
- No