B6C3Fe a/a-Agtpbp1 pcd/J

Stock No: 001037 | Purkinje cell degeneration

Spontaneous Mutation

CRYO RECOVERY

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

Also Known As: B6C3Fe-a/a-Agtpbp1pcd/+, B6C3Fe-a/a-Nna1pcd/+, Purkinje cell degeneration

These mice carry a spontaneous mutation at the Agtpbp1 locus characterized by a moderate ataxia and degeneration of Purkinje cells, retinal photoreceptor cells, and olfactory bulb mitral cells.

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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</thead>
<tbody>
<tr>
<td>a</td>
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<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Spontaneous</td>
<td>a</td>
<td>nonagouti</td>
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<table>
<thead>
<tr>
<th>Agtpbp1pcd</th>
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<tbody>
<tr>
<td>Allele Type</td>
<td>Gene Symbol</td>
<td>Gene Name</td>
</tr>
<tr>
<td>Spontaneous (Not Specified)</td>
<td>Agtpbp1</td>
<td>ATP/GTP binding protein 1</td>
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VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research
Sensorineural Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:
Details

Detailed Description
Mice homozygous for the Purkinje cell degeneration spontaneous mutation (pcd) show a moderate ataxia beginning at 3 to 4 weeks. Homozygous mutant mice are somewhat smaller than normal but may live a fairly normal life span. Males have abnormal sperm and are sterile. Females are fertile but are poor breeders. There is rapid degeneration of nearly all Purkinje cells beginning at 15 to 18 days, and a slower degeneration of the photoreceptor cells of the retina and mitral cells of the olfactory bulb. Degeneration of Purkinje cells is followed by partial loss of granule cells. Discrete serotonin-immunoreactive fibers, which ascend to all three layers of the cerebellar cortex in normal controls, are of much higher density and form multidirectional contours in homozygotes. In the retina of homozygous mutant mice, pycnotic nuclei begin to appear in the photoreceptor cells between 18 and 25 days, and the outer rod segments become disorganized. Degeneration of the photoreceptor cells proceeds slowly to completeness over the course of a year.

Genetics

Agtpbp1\textsuperscript{pcd}

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
Genotyping resources and troubleshooting
Appearance
black, ataxic
Related Genotype: a/a Agtpbp1^{Pcd}/Agtpbp1^{Pcd}

black, unaffected
Related Genotype: a/a Agtpbp1^{Pcd}+/+ or a/a ?+/+

Citation
When using the Purkinje cell degeneration mouse strain in a publication, please cite the originating article(s) and include JAX stock #0011037 in your Materials and Methods section.
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>Cryorecovery - Domestic Pricing</th>
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</thead>
<tbody>
<tr>
<td><strong>SERVICE</strong></td>
<td><strong>GENOTYPE</strong></td>
<td><strong>PRICE</strong></td>
</tr>
<tr>
<td>Cryo Recovery with Progeny Testing</td>
<td>No genotyping assay is available for this recessive mutation. The customer will receive cryorecovered animals of undefined genotype.</td>
<td>$2,595.00</td>
</tr>
</tbody>
</table>

A molecular assay to genotype this strain is not available. We will fulfill your order by providing at least two untested males and two untested females (two pairs). The total number, sex, and genotypes will vary, although typically 8 or more mice are provided. Untested animals typically are available to ship between 10 and 14 weeks from the date of your order. If the first recovery attempt is unsuccessful, a second recovery will be done, extending the overall recovery time to approximately 25 weeks. **Progeny testing may be required** – If recovered animals do not display a phenotype, progeny testing will be required. This testing involves breeding the recovered animals and assessing the phenotype of the offspring in order to identify animals carrying the mutation of interest. Please note that identified pairs may not reflect the mating scheme utilized by The Jackson Laboratory prior to cryopreservation of the strain. Mating schemes are sometimes modified for successful cryopreservation. 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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General Terms and Conditions

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

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| By Collection |

All Related Strains