

B6.BR-Agtbbp1^{pcd}/J

Stock No: 000537 | Purkinje cell degeneration

 Congenic, Spontaneous Mutation

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

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GENETIC OVERVIEW

Genetic Background

Generation

000664 C57BL/6J

Agtbbp1^{pcd}

Allele Type

Gene Symbol

Gene Name

Spontaneous (Not Specified)

Agtbbp1

ATP/GTP binding protein 1

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Sensorineural Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

Details

Detailed Description

Mice homozygous for the Purkinje cell degeneration spontaneous mutation (*Agtppb1^{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.

Development

Control Suggestions

Genetics

Agtppb1^{pcd}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols

[Genotyping resources and troubleshooting](#)

Appearance

black, ataxic

Related Genotype: *a/a Agtppb1^{pcd} /Agtppb1^{pcd}*

black, unaffected

Related Genotype: *a/a Agtppb1^{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 #000537 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



Cryo
Recovery

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

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Progeny testing required but not provided. No genotyping assay is available for these recessive cryo-recovered animals of undefined genotype	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.BR-Agtppb1<pcd>/J	\$2595.00
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