Also Known As: cerebellar deficient folia

These mice carry a spontaneous mutation at the Ctnna2 locus characterized by an abnormal gait and abnormal brain development.
**Allele Type**
Spontaneous

**Gene Symbol**
Ctnna2

**Gene Name**
catenin (cadherin associated protein), alpha 2

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**RESEARCH APPLICATIONS**

**Developmental Biology Research**
**Neurobiology Research**

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**BASE PRICE**

Starting at:
$2,854.50 Domestic price Cryo Recovery

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**Details**

**Important Note**
This strain is homozygous for the retinal degeneration allele \( Pde6b^{rd1} \).

**Detailed Description**

Cerebellar deficient folia (\( cdf \)) is a recessive mutation which maps to chromosome 6. Homozygotes display a constant side-to-side wobble in their gait that is apparent as early as 2 weeks of age. Additionally, they often hold their tails off the surface or arch them over their heads while moving. Smaller size is detectable in homozygotes by two weeks of age, at weaning they weigh approximately 25% less than littermate controls, and as adults they weigh, on average, 50% less. These mutants live a normal life span (one-and-a-half to two years on the C3H/HeJ background), but homozygous males rarely breed and homozygous females are poor mothers requiring transfer of litters to foster mothers.

The \( cdf \) mutation causes a hypoplastic and dysmorphic cerebellum. On the C3H/HeJ background, homozygotes have only 7 cerebellar folia rather than the 10 present in wildtype, and the folia pattern is abnormal. Their vermis is one-third smaller than wildtype in rostro-caudal length and the ventral vermis contains concentric mineral deposits. Ectopic Purkinje cells (mostly zebrin II-negative) are in the deep core of the cerebellum between the cerebellar nuclei, in the granular cell layer, and in the intralobular white matter. BrdU analysis indicates that these ectopic Purkinje cells, like Purkinje cells in wildtype mice, are generated during embryonic days 11-13. The overall number of Purkinje cells in homozygotes is relatively normal. The Perkinje cell defect appears to result from a failure in dispersion of the zebrin II-negative subpopulation. (Cook et al., 1997; Beierbach et al., 2001.)

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**Development**

**Control Suggestions**
Genetic Analysis

Ctnna2<sup>df</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
Separated PCR: Ctnna2<sup>df</sup>
Genotyping resources and troubleshooting

Appearance
agouti
Related Genotype: A/A

Citation
When using the cerebellar deficient folia mouse strain in a publication, please cite the originating article(s) and include JAX stock #002235 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
Pricing effective for USA, Canada and Mexico shipping destinations

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<td>Cryorecovery</td>
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We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. 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.

**The Jackson Laboratory’s Genotype Promise**

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. Therefore, we cannot guarantee a strain's phenotype will meet all expectations. To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project.
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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains
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