

B6;CByJ-Cacna2d2^{du-3J}/JStock No: **005050** | ducky 3 Jackson **Chemically Induced Mutation**

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GENETIC OVERVIEW

Genetic Background**Generation***Cacna2d2^{du-3J}***Alele Type**

Chemically induced (ENU)

Gene Symbol*Cacna2d2***Gene Name**

calcium channel, voltage-dependent, alpha 2/delta subunit 2

[V I E W G E N E T I C S](#)

RESEARCH APPLICATIONS

Neurobiology Research

Developmental Biology Research

Cell Biology Research

[V I E W A L L R E S E A R C H A P P L I C A T I O N S](#)

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

Details

Detailed Description

The mutants can be detected at or shortly after weaning age (average age of onset 5 weeks \pm 1.9; n=9). They are small, show body tremor, splayed hind limbs, and might advance with both hind limbs simultaneously, in a 'frog-like' manner. Intermittently, body spasms can be observed, which may be limited to one or the other hind- or fore limb, or to the head, neck, shoulder and front limb area, or include the whole body, so the animal needs to lie on its side. Either episode may last for several seconds. Because of the observed body spasms and splayed hind limbs, allele tests were performed with *Cacna2d2* (calcium channel, voltage-dependent, alpha 2/delta subunit 2) or *Cacnb4* (calcium channel, voltage-dependent, beta 4 subunit) mutants. The results showed NMF299 to be an allele of *Cacna2d2*, i.e. 2 heterozygous matings (w/duky-2J) resulted in 2 affected mice in a total of 12 progeny. NMF299 are now backcrossed to the BALB/cByJ background. Standard pathology work-up on one mutant (57 days of age) showed no abnormalities, except body and organs to be small and immature.

With special care and feeding mutants can live to over 2 months of age, without it, they may die as early as 4 weeks of age. Males are fertile, females may require ovarian transplants.

Development

Control Suggestions

Genetics

Cacna2d2^{du-3J}

Disease/Phenotype

[+ Disease Terms](#)

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

[Genotyping resources and troubleshooting](#)

Breeding Considerations

With special care and feeding mutants can live to over 2 months of age, without it, they may die as early as 4 weeks of age. Males are fertile, females may require ovarian transplants.

[Additional Breeding and Husbandry Support](#)

Citation

When using the ducky 3 Jackson mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #005050 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](#)

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SERVICE/PRODUCT	DESCRIPTION	PRICE
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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. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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