Also Known As: ducky dilute

Homozygous mutants show severe dysgenesis of hindbrain and spinal cord with demyelination and axonal dystrophy in the spinocerebellar and vestibulospinal tracts of fiber systems. This histology underlies an abnormal gait and occasional seizures.

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.
Mice homozygous for the ducky spontaneous mutation (Cacna2d2^du^) show a waddling or reeling gait and a tendency to fall to one side. Homozygous mutant mice are slightly smaller than normal and may occasionally have seizures. Histologically, homozygotes show severe dysgenesis of hindbrain and spinal cord, myelin deficiency that is more marked the more caudad the CNS region, and demyelination and axonal dystrophy in selective fiber systems including the spinocerebellar and vestibulospinal tracts. There is a deficit of cerebrosides in the hindbrain and spinal cord, but other lipid classes are present in normal amounts relative to the size of the CNS. Viability is somewhat less than normal. Males living to maturity may be fertile, but are poor breeders. Females rarely breed. In mice homozygous for either Cacna2d2^du^ or Cacna2d2^du^, no loss of Purkinje cells or granular cells was seen by immunohistochemistry for calbindin or calretinin respectively. (Barclay et al., 2001.)
Genotyping Protocols
Restriction Enzyme Digest: \textit{Cacna2d2}
Genotyping resources and troubleshooting

Citation
When using the ducky dilute mouse strain in a publication, please cite the originating article(s) and include JAX stock #012889 in your Materials and Methods section.

Animal Health Reports
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, \textit{G200}

Pricing & Availability

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

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<tr>
<th>SERVICE/PRODUCT</th>
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<td>Cryo Recovery</td>
<td>Heterozygous for d, heterozygous for du</td>
<td>$2,854.50</td>
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| Frozen Mouse Embryo   | \textit{B6N;TKDU-Myo5a<d} Cacna2d2<du>/J Frozen Embryo  | $2595.00  |

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