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Stock No: 004163 | p35-

Congenic, Targeted Mutation



CRYO RECOVERY

P L A C E O R D E R

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

Overview

Also Known As: p35-

These *Cdk5r* knock-out mice exhibit defects in the patterning of the cerebral cortex and other areas of the brain.

Donating Investigator

Li-Huei Tsai, Massachusetts Institute of Technology

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Cdk5r1^{tm1Lht}

Allele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Cdk5r1

cyclin-dependent kinase 5, regulatory subunit 1 (p35)

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

At birth, mice homozygous for this targeted allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. *Cdk5r1* protein product is not immunodetectable in homozygote whole-brain lysates. Histological analysis of homozygotes reveals severe defects in the patterning of the cerebral cortex and other areas of the brain. The normal lamination pattern of cortical neurons is disrupted; axonal trajectories and dendritic structures are altered. Homozygous mice are more susceptible to mortality from chemically induced-seizures. Sporadic adult lethality is also observed, presumably resulting from spontaneous seizures, a consequence of the disrupted cytoarchitecture observed in the cortex. This mutant mouse strain represents a model that may be useful in studies related to the mechanisms of cortical lamination, epilepsy, Alzheimer's and other neurodegenerative diseases.

Development

Control Suggestions

+ Selected References

- Genetics

+ *Cdk5r1^{tm1Lht}*

- Disease/Phenotype

+ Disease Terms

+ Research Areas By Genotype

+ Mammalian Phenotype Terms by Genotype

+ References

- Technical Support

CHAT OFFLINE

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR: [Cdk5r1^{tm1Lht}](#)

Standard PCR: [Generic Neo](#)

Probe: [Generic Neo](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

This strain originated on a B6;129S4 background and has been backcrossed to C57BL/6 for at least 5 generations.

[Additional Breeding and Husbandry Support](#)

Citation

When using the *m35* mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #004163 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



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	GENOTYPE	PRICE
Cryo Recovery	Heterozygous or Wild-Type for Cdk5r1<tm1Lht>	\$2,854.50

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.

Related Products and Services

Frozen Mouse Embryo	B6.129S4-Cdk5r1<tm1Lht>/J Frozen Embryos	\$2595.00
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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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🔍 Terms Of Use

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