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Stock No: 006392 | CSP α KO

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: CSP α KO

These *Dnajc5* knock-out mice exhibit neurodegeneration and are useful in studies relating to synaptic transmission.

Donating Investigator

Dr. Thomas C. Sudhof, Stanford University School of Medicine

GENETIC OVERVIEW

Genetic Background Generation

Dnajc5^{tm1Sud}

Allele Type	Gene Symbol	Gene Name
Targeted (Null/Knockout)	<i>Dnajc5</i>	DnaJ heat shock protein family (Hsp40) member C5

V I E W G E N E T I C S

RESEARCH APPLICATIONS

Neurobiology 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

Newborn homozygotes with this targeted mutation are viable, normal in size, and do not display any gross physical or behavioral abnormalities. After 15 days of age, the animals stop gaining weight. They rapidly develop a neurodegenerative phenotype which impairs productivity. Young homozygotes show no significant changes in presynaptic Ca²⁺ currents or synaptic vesicle exocytosis, but at 2-4 weeks of age, these mice develop a progressive, fatal sensorimotor disorder. Neuromuscular junctions and Calyx synapses exhibit increasing neurodegenerative changes, and synaptic transmission becomes severely impaired. Partial paralysis and loss of neuromuscular control are seen by ~20 days of age and most die by 60 days of age (none survive beyond 3 months). No protein product from the targeted gene is detected in brain tissue. This mutant mouse strain represents a model that may be useful in studies of synaptic vesicle transport mechanisms and neurodegeneration.

Development

Control Suggestions

Selected References

– Genetics

+ [Dnajc5^{tm1Sud}](#)

– Disease/Phenotype

+ [Disease Terms](#)

+ [Research Areas By Genotype](#)

+ [Mammalian Phenotype Terms by Genotype](#)

+ [References](#)

– Technical Support

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

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

Standard PCR: [Dnajc5^{tm1Sud}](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintained as a live colony, homozygous crosses are used.

[Additional Breeding and Husbandry Support](#)

Citation

When using the GSPo KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006392 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 Dnajc5<tm1Sud>	\$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;129S6-Dnajc5<tm1Sud>/J Frozen Embryo	\$2595.00

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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Phone: 207-288-6470

Email: TechTran@jax.org

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