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Stock No: 003916 | *sedc*

Congenic, Spontaneous 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: *sedc*

These *sedc* mice carry a spontaneous mutation at the *Col2a1* locus characterized by small body size and head bobbing. They are suitable for use in applications related to molecular and biological studies of bone development and pathology.

R E A D M O R E +

GENETIC OVERVIEW

Genetic Background

Generation

Col2a1^{sedc}

Allele Type

Gene Symbol

Gene Name

Spontaneous

Col2a1

collagen, type II, alpha 1

[VIEW GENETICS](#)

RESEARCH APPLICATIONS

Sensorineural Research

Mouse/Human Gene Homologs

Developmental Biology Research

[VIEW ALL RESEARCH APPLICATIONS](#)

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

[VIEW PRICE LIST](#)

Details

Detailed Description

Newborn homozygotes are smaller than normal, have a shortened trunk, and often display head bobbing. Decreased body weight persists into adulthood, and the noses, trunks, tails, skulls, and long bones of adults are shortened relative to those of normal siblings. Abnormal epiphyses, with dysplasia of the vertebrae, femora, and tibiae are found. Although light microscopy failed to detect any abnormalities in the inner ear, the head bobbing characteristic accompanying this mutation is usually associated with inner ear defects. Auditory brainstem response threshold analysis of 10-15 week old homozygotes does show hearing impairment. Clefts develop between the inner and outer aspects of the inner nuclear layer of the retina (retinoschisis).

Development

Control Suggestions

Selected References

Genetics

[+ Col2a1^{sedc}](#)

[- Disease/Phenotype](#)

[+ Disease Terms](#)

[+ Research Areas By Genotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

CHAT OFFLINE

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Pyrosequencing: [Col2a1^{sedc}-Pyro](#)

[Genotyping resources and troubleshooting](#)

Appearance

black

Related Genotype: *a/a*

Citation

When using the *sedc* mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #003916 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 International

Pricing effective for USA, Canada and Mexico shipping destinations

Cryorecovery - Domestic Pricing

SERVICE	GENOTYPE	PRICE
Cryo Recovery	Heterozygous or wildtype for Col2a1^{sedc}	\$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(Cg)-Col2a1<sedc>/GrsrJ

\$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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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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Terms of Use

[General Terms and Conditions](#)

Q U E S T I O N S A B O U T T E R M S O F U S E

Licensing Information

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