



B 6 ; 1 2 9 β a r c^{m1Hwe} / J

Stock No: 003728 | SPARC 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: SPARC KO

These *Sparc* knock-out mice exhibit development of cataracts and osteopenia.

Donating Investigator

Chin C Howe, The Wistar Institute

R E A D M O R E +

GENETIC OVERVIEW

Genetic Background

Generation

Sparc^{tm1Hve}

Allele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Sparc

secreted acidic cysteine rich glycoprotein

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

RESEARCH APPLICATIONS

Endocrine Deficiency Research

Sensorineural Research

Internal/Organ 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

Mice that are homozygous null for *Sparc* are viable and fertile. They display decreased physical activity when handled but otherwise appear normal. *Sparc* transcripts and protein products are not detected in these animals. The development of cataracts and osteopenia are the predominant phenotypes. Lenticular opacity starts to develop at 1 to 2 months after birth, progressing to mature cataracts by 5-8 months of age. Intracellular vacuoles are apparent at 1-2 months, leading to a disruption of fiber cell packing. In later stages, the lens capsule ruptures and displacement of lens material into the anterior chamber is evident. At 17 weeks of age, null mice exhibit 50% less trabecular bone than that found in wild type controls. The loss is 70% at 36 weeks. Decreases in both osteoclast and osteoblast numbers are observed, the cumulative effect of which is a negative bone-balance leading to profound osteopenia.

Control Suggestions

Selected References

– Genetics

+ [Sparc^{tm1Hwe}](#)

– Disease/Phenotype

+ Disease Terms

+ Research Areas By Genotype

+ Mammalian Phenotype Terms by Genotype

+ References

– Technical Support

C H A T O  F L I N E

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: [Sparc^{tm1Hwe}](#)

Standard PCR: [Sparc^{tm1Hwe}](#)

Separated PCR: [Sparc^{tm1Hwe}](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

This strain arose on a B6;129S background. It is maintained by the donating investigator as a homozygote on a B6;129S background.

[Additional Breeding and Husbandry Support](#)

Citation

When using the SPARC KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #003728 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 Sparc<tm1Hwe>	\$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;129S-Sparc<tm1Hwe>/J	\$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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Licensing Information

Phone: 207-288-6470

Email: TechTran@jax.org

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