

D2.129S4(B6)-Meox2^{tm1(cre)Sor}/SjJ

Stock No: 026858

 Congenic, Targeted Mutation

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

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Donating Investigator

Dr. Simon John, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background

Generation

Meox2^{tm1(cre)Sor}

Alele Type

Targeted (Recombinase-expressing)

Gene Symbol

Meox2

Gene Name

mesenchyme homeobox 2

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

Research Tools

VIEW ALL RESEARCH APPLICATIONS

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

This strain expresses Cre recombinase under the control of the endogenous *Meox2* promoter. Expression of Cre recombinase is observed in epiblast-derived tissues as early as embryonic day 5. The insertion creates a null allele for the *Meox2* gene. Homozygous mice are viable on this background but exhibit an overall reduction in muscle mass and the absence of specific muscles resulting in abnormal limb posture and reduced motility. This phenotype is variable. As many as 80% of homozygotes are severely affected, fail to thrive and die before weaning. Some homozygotes (10%) exhibit clefting of the secondary palate. These mice can be utilized as a deleter strain for *loxP* flanked DNA and provide an alternative to tetraploid embryo analysis.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

+ Development

+ Expression Data

+ Control Suggestions

+ Selected References

- Genetics

+ *Meox2*^{tm1(cre)Sor}

- Disease/Phenotype

+ Disease Terms

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

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

Separated PCR:[Meox2cre](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Heterozygotes are viable and fertile.

[Additional Breeding and Husbandry Support](#)

Mating System

Heterozygote x Wild-type

Wild-type x Heterozygote

Citation

When using the D2.129S4(B6)-*Meox2*^{tm1(cre)Sor}/SjJ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #026858 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**

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Cryorecovery - Domestic Pricing

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for Meox2<tm1(cre)Sor>	\$2,854.50

Related Products and Services		
Frozen Mouse Embryo	D2.129S4(B6)-Meox2<tm1(cre)Sor>/SjJ	\$2595.00

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