

B6.129S-Runx1^{tm1Spe} /J

Stock No: 005669 | Cbfa2 KO

 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

Nancy Speck, University of Pennsylvania

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GENETIC OVERVIEW

Genetic Background

Generation

Runx1^{tm1Spe}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Runx1

runt related transcription factor 1

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

Research Tools

Immunology, Inflammation and Autoimmunity Research

Cardiovascular Research

Hematological Research

Internal/Organ Research

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

Heterozygous mice are viable, fertile, devoid of hemorrhagic lesions, and exhibit mild hematopoietic impairment. Mice that are homozygous for the targeted mutation have an embryonic lethal phenotype; animals are alive at embryonic day 11.5, but start dying at embryonic day 12.5. Embryos exhibit extensive hemorrhagic lesions in the central nervous system including the intraventricular regions and metencephalon as well as segmental bleeds at the VII-VIII cranial nerve complex, cervical, thoracic, and caudal regions. At embryonic day 10.5, symmetrical and bilateral necrosis preceding hemorrhage is observed in homozygotes. Homozygous disruption of the endogenous gene completely blocks definitive erythropoiesis, myelopoiesis, and lymphopoiesis. This mutant may be useful in leukemia studies as disruption of the human homolog of this gene is associated with many different leukemias.

Development

Control Suggestions

Selected References

Genetics

Runx1^{tm1Spe}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

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

Standard PCR:[Runx1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice are maintained as heterozygotes. Homozygotes are embryonic lethal.

[Additional Breeding and Husbandry Support](#)

Mating System

+/+ sibling x Heterozygote

Citation

When using the Cbfa2 KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #005669 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/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for Runx1<tm1Spe>	\$2,854.50

Related Products and Services

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By Allele

By Gene

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