

129/Sv-A1cf^{tm1Ddsn}/NaJ

Stock No: 027924 | A1cf^{-/-}

◆ Coisogenic, 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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(A1cf) gene. These mice may be useful for studying C-to-U RNA editing as well as cell survival during early embryonic development.

Donating Investigator

Joe Nadeau, Pacific Northwest Diabetes Research Institute

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GENETIC OVERVIEW

Genetic Background

Generation

A1cf^{tm1Ddsn}

Alele Type

Targeted (Reporter, Null/Knockout)

Gene Symbol

A1cf

Gene Name

APOBEC1 complementation factor

VIEW GENETICS

RESEARCH APPLICATIONS

Internal/Organ Research

Cancer Research

Reproductive Biology Research

Developmental Biology 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

APOBEC1 complementation factor (*A1cf*) mutant mice have a green fluorescent protein and a PGK-neo cassette replacing exon 2 of the *A1cf* gene, abolishing gene function. ACF is an RNA binding protein and cofactor for APOBEC1 cytidine deaminase in C-to-U RNA editing. A1CF protein is highly expressed in the kidney, liver, and small intestine of adult mice and humans, as well as in heart, spinal cord, and lung of mouse embryos (E12.5). A1CF transcripts were also detected in adult gonads in humans. *A1cf*^{+/-} heterozygotes are viable and fertile while homozygotes die before implantation (around E3.5), suggesting that A1CF is essential for early development. A1CF plays a crucial role in cell growth and differentiation, and in particular in liver regeneration. Indeed, *A1cf*^{+/-} heterozygotes exhibit decreased proliferation and impaired liver mass restitution following partial hepatectomy. The donating investigator commented that it is unknown if the GFP is functional.

Development

Expression Data

Control Suggestions

Selected References

Genetics

A1cf^{tm1Ddsn}

– 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

Standard PCR:[A1cf](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred together, however, the donating investigator reports that homozygotes die before implantation.

[Additional Breeding and Husbandry Support](#)

Mating System

Heterozygote x Wild-type

Citation

When using the A1cf^f mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #027924 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



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Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for A1cf<tm1Ddsn>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	129/Sv-A1cf<tm1Ddsn>/NaJ Frozen Embryo	\$2595.00
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ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

LICENSING INFORMATION

☰ Related Strains

- All
- By Allele
- By Gene
- By Collection




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