

FVB/N-Del(1Sdcccag8-Akt3)CA1C2Ove/J

Stock No: **017598** | *Sdcccag8*³⁶⁷

◆ Coisogenic, Transposition

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

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transgene that caused a recombination deletion of genomic sequence encompassing exons 13-18 of the serologically defined colon cancer antigen 8 gene (*Sdcccag8*) and exons 2-13 of the thymoma viral proto-oncogene 3 gene (*Akt3*). These mice may be useful for studying SDCCAG8-deficiency (e.g., cleft palate, preaxial polydactyly, polycystic kidney disease) and AKT3-deficiency (e.g., brain phenotype).

Donating Investigator

Paul A Overbeek, Baylor College of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

Del(1Sdcccag8-Akt3)CA1C2Ove

Alele Type

Transposon induced
(Null/Knockout)

Gene Symbol

Del(1Sdcccag8-
Akt3)CA1C2Ove

Gene Name

deletion, Chr 1, Paul A Overbeek CA1C2

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

Internal/Organ Research

Endocrine Deficiency 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

OVE2161B-CA1C-2 (or *Sdccag8*^{SBT}) mice harbor a deletion created by random insertion of the pT2-BART3 transposon transgene that caused a recombination deletion of genomic sequence encompassing exons 13-18 of the serologically defined colon cancer antigen 8 gene (*Sdccag8*) and exons 2-13 of the thymoma viral proto-oncogene 3 gene (*Akt3*).

In 2012, the donating investigator (Dr. Paul Overbeek) reported that homozygous mice have complete absence of *Sdccag8* transcript. All homozygous mice exhibit cleft palate, with open palate observed by embryonic day (E)15. Homozygous mice die shortly after birth with complications from cleft palate (cannot suckle). In addition, the donating investigator reported that homozygous mice exhibit preaxial polydactyly and polycystic kidney disease. Hemizygous and homozygous mice of line OVE2161B-CA1C-2 exhibit very light tan coat color and red eyes.

In 2018, [Weihbrecht et al. 2018 PLoS ONE 13:e0192755](#) identified that the transgene insertion caused a recombination deletion of genomic sequence encompassing *Sdccag8* exons 13-18 and *Akt3* exons 2-13. Homozygotes display early neonatal lethality due to abnormal lung development and patterning defects in the secondary palate and the hind limb. This publication concludes that developmental defects of the secondary palate, hind limbs and the lung are due to a loss of *Sdccag8*, whereas the brain phenotype is likely due to loss of *Akt3*.

Development

Control Suggestions

Selected References

Genetics

Del(1*Sdccag8*-*Akt3*)CA1C2Ove

⊖ 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:[Sdcccag8alternate1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Homozygous mice die shortly after birth with complications from cleft palate (cannot suckle). When maintaining a live colony, heterozygous mice may be bred to wildtype siblings or to FVB/NJ inbred mice (Stock No. [001800](#)).

[Additional Breeding and Husbandry Support](#)

Citation

When using the *Sdcccag8*^{SBT} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017598 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



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

DomesticInternational

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for Sdccag8<Tn(sb-Tyr)2161B.CA1C2Ove>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	FVB/N-Del(1Sdccag8-Akt3)CA1C2Ove/J Frozen Embryo	\$2595.00
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- By Gene
- By Collection




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