

B6(Cg)-Sec24c ^{*tm1c(EUCOMM)Wtsi*} /J

Stock No: 024867

 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

David Ginsburg, University of Michigan

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GENETIC OVERVIEW

Genetic Background

Generation

Sec24c ^{*tm1c(EUCOMM)Wtsi*}

Alele Type

Targeted (Conditional ready
(e.g. floxed))

Gene Symbol

Sec24c

Gene Name

Sec24 related gene family, member C (*S. cerevisiae*)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Cell 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

SEC24 proteins are responsible for selectively recruiting cargo proteins from the endoplasmic reticulum (ER) into COPII vesicles that mediate transport to the Golgi. *Sec24c* (Sec24 related gene family, member C (*S. cerevisiae*)) is one of four mammalian *Sec24* paralogs which are highly conserved at the C-terminus and variable in the N-terminal region. Mice completely lacking SEC24C die around embryonic day 7.

Exon 3 of the *Sec24c* gene is flanked by loxP sites in this conditional mutant strain. Heterozygous and homozygous *Sec24c*-FL mice are healthy, appear normal and are fertile. Cre excision of the floxed segment results in a frameshift mutation and early stop in exon 4, producing a null allele (see Stock No. [024868](#)).

Progeny derived from crosses with a smooth muscle cell-specific Cre strain (SM22-Cre, see Stock No. [04746](#)) do not have any grossly apparent abnormalities and are able to carry litters to term. Pups derived from crosses with albumin-Cre (hepatocyte-specific, see Stock No. [003574](#)) and villin-cre (intestinal-epithelial-specific, see Stock No. [004586](#)), show normal plasma cholesterol and triglyceride levels when on a high fat diet.

Development

Control Suggestions

Selected References

Genetics

Sec24c^{tm1c(EUCOMM)Wtsi}

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:[Sec24c](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Heterozygotes and homozygotes are viable and fertile.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6(Cg)-*Sec24c*^{tm1c(EUCOMM)Wtsi}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #024867 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 NOT-FOR-PROFIT & ACADEMIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for Sec24c<tm1c(EUCOMM)Wtsi>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6(Cg)-Sec24c<tm1c(EUCOMM)Wtsi>/J	\$2595.00
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[Use of MICE only available to non-profit entities.](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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