The Jackson Laboratory

B6J.B6N(Cg)-*Sec24c* $^{tm1a(EUCOMM)Wtsi}$/J

Stock No: **024866**

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

David Ginsburg, University of Michigan

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GENETIC OVERVIEW

Genetic Background	Generation

Sec24c$^{tm1a(EUCOMM)Wtsi}$

Allele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed), Reporter, Null/Knockout)	*Sec24c*	Sec24 related gene family, member C (S. cerevisiae)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Cell Biology Research
Developmental Biology Research

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

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.

These mice carry the Sec24c-GT genetrap allele that incorporates an FRT-*En2* splice acceptor (SA)-IRES-lacZ-SV40 polyadenylation signal (pA)-loxP-PGK-Neo-SV40 polyadenylation signal (pA)-FRT-loxP sequence in intron 2 of the gene and and additional loxP site in intron 3. When FLP recombinase is introduced, an allele carrying a floxed exon 3, but lacking both the lacZ and neomycin features, can be produced (see Stock No. 024867). 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).

Heterozygous Sec24c-GT mice are healthy and appear normal, but homozygotes exhibit embryonic lethality due to the presence of the gene trap cassette.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Sec24c$^{tm1a(EUCOMM)Wtsi}$

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:Sec24calternate1
Standard PCR:Generic LacZ Melt Curve Analysis
Probe:Generic LacZ Probe
Genotyping resources and troubleshooting

Breeding Considerations

Heterozygotes are viable and fertile. Homozygotes die during embryonic development due to the presence of the genetrap cassette.

Additional Breeding and Husbandry Support

Citation

When using the B6J.B6N(Cg)-*Sec24c*$^{tm1a(EUCOMM)Wtsi}$/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #024866 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 B6N(Cg)-Sec24c<tm1a(EUCOMM)Wtsi>	$2,854.50

PAYMENT TERMS AND CONDITIONS

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

THE JACKSON LABORATORY'S GENOTYPE PROMISE

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee breeding performance and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

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