

STOCK *Kitl^{tm1.1Sjm}* / J

Stock No: **017860** | Scf (*Kitl*) knockin

 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

Sean J Morrison, University of Texas Southwestern Medical Center

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GENETIC OVERVIEW

Genetic Background

Generation

Kitl^{tm1.1Sjm}

Alele Type

Targeted (Reporter,
Null/Knockout)

Gene Symbol

Kitl

Gene Name

kit ligand

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Developmental Biology Research

Internal/Organ Research

Cardiovascular Research

Hematological 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

An Enhanced Green Fluorescent Protein (EGFP) reporter disrupts expression of *Kitl* (kit ligand; also called stem cell factor, Scf) in this targeted mutation strain. EGFP is primarily expressed by perivascular endothelial and stromal cells throughout the bone marrow. Homozygotes die perinatally with severe anemia. *Kitl* transcripts are nearly undetectable by quantitative RT-PCR in the livers of newborn homozygotes. Overall cellularity of the newborn liver is reduced fivefold in homozygotes and approximately twofold in heterozygotes. Hematopoietic stem cell numbers are reduced about eightfold in the livers of newborn homozygotes as compared with wildtype and heterozygous controls. Heterozygotes have a diluted coat color and often have a white spot on the abdomen.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Kitl^{tm1.1Sjm}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

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:Kitl

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Heterozygous mice are viable and fertile. Homozygotes die perinatally with severe anemia.

[Additional Breeding and Husbandry Support](#)

Citation

When using the Scf (Kitl) knockin mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017860 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.

DomesticInternational

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for Kitl<tm1.1Sjm	\$2,854.50

RELATED PRODUCTS AND SERVICES

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Q U E S T I O N S A B O U T T E R M S O F U S E

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LICENSING INFORMATION

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Email: TechTran@jax.org

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