



129S1 / $\text{Oca}^+2T y^r K i^{Sl} // J$

Stock No: 000090

Spontaneous Mutation



CRYORECOVERY

PLACE ORDER

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

Overview

Also Known As: 129S1

The multiple steel mutations (Kit^{Sl}) behave in a semidominant fashion and cause deficiencies in pigment cells, germ cells, and blood

cells paralleling those caused by the *Kit* locus mutations (dominant spotting alleles). Most of the alleles at steel locus cause severe anemia *in utero* and death by 15 to 16 days of gestation in homozygous mutant mice. However, compounds of two steel mutants (e.g. *Kitl^{Sl}/Kitl^{Sl-d}*) are viable, black-eyed white, are usually sterile in one or both sexes, and have severe macrocytic anemia. Heterozygous steel mice have a diluted coat color with a small amount of white spotting, are viable and fertile, and may have a slight macrocytic anemia. Primordial germ cells are absent in the nonviable steel homozygotes and severely reduced in steel heterozygotes. Mast cells are virtually absent in skin and other tissues of steel mutant mice. Tumors tend to develop in germ-cell-deficient ovaries with advancing a...

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GENETIC OVERVIEW

Genetic Background Generation

Oca2⁺

Allele Type	Gene Symbol	Gene Name
Not Applicable	<i>Oca2</i>	oculocutaneous albinism II

Tyr⁺

Allele Type	Gene Symbol	Gene Name
Not Applicable	<i>Tyr</i>	tyrosinase

Kitl^{Sl-J}

Allele Type	Gene Symbol	Gene Name
Spontaneous	<i>Kitl</i>	kit ligand

VIEW GENETICS

RESEARCH APPLICATIONS

- Cancer Research
- Dermatology Research
- Developmental Biology Research
- Endocrine Deficiency Research
- Mouse/Human Gene Homologs
- Reproductive Biology Research
- Research Tools
- Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

Details

Detailed Description

The multiple steel mutations ($Kitl^{Sl}$) behave in a semidominant fashion and cause deficiencies in pigment cells, germ cells, and blood cells paralleling those caused by the *Kit* locus mutations (dominant spotting alleles). Most of the alleles at steel locus cause severe anemia *in utero* and death by 15 to 16 days of gestation in homozygous mutant mice. However, compounds of two steel mutants (e.g. $Kitl^{Sl}/Kitl^{Sl-d}$) are viable, black-eyed white, are usually sterile in one or both sexes, and have severe macrocytic anemia. Heterozygous steel mice have a diluted coat color with a small amount of white spotting, are viable and fertile, and may have a slight macrocytic anemia. Primordial germ cells are absent in the nonviable steel homozygotes and severely reduced in steel heterozygotes. Mast cells are virtually absent in skin and other tissues of steel mutant mice. Tumors tend to develop in germ-cell-deficient ovaries with advancing age. The steel-J mutation ($Kitl^{Sl-J}$) on this 129S1 genetic background increases the incidence of testicular teratomas to approximately 10%.

Control Suggestions

Genetics

$Oca2^+$

Tyr^+

$Kitl^{Sl-J}$

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CHAT OFFLINE

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

[Genotyping resources and troubleshooting](#)

Citation

When using the 129S1/Sy-Oca2⁺ Tyr⁺ Kitl^{Sl-J}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #000090 in your Materials and Methods section.

[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 Pricing

SERVICE	GENOTYPE	PRICE
Cryo Recovery	Heterozygous or Wild-type for Kitl<Sl-J>, Wild-type for Tyr , Wild-type for Oca2	\$2,854.50

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a [Dedicated Supply](#) for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

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