

B6.C3-Kit^{W-44J}/J

Stock No: **000122** | dominant spotting 44 Jackson

 Coisogenic, Spontaneous Mutation

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

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GENETIC OVERVIEW

Genetic Background

Generation

000664 C57BL/6J

Kit^{W-44J}

Alele Type

Gene Symbol

Gene Name

Spontaneous

Kit

KIT proto-oncogene receptor tyrosine kinase

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research

Dermatology Research

Developmental Biology Research

Endocrine Deficiency Research

Reproductive Biology Research

Mouse/Human Gene Homologs

Research Tools

Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

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Details

Detailed Description

Kit^{W-44J} heterozygotes have white-tipped feet and a white tail tip although the belly spot standardly found in Kit^{W^e} mutations is very small in this mutant, sometimes restricted to only a few hairs. Homozygotes have a flecked pelt that is predominantly white, especially ventrally, with pigmented patches particularly at the lateral borders. The pigmentation fades with age yielding black-eyed white mice by approximately 9 months of age. While many Kit^{W-44J} homozygotes are viable, fertility is diminished. Homozygous females have greatly reduced fertility and gonads that are smaller in size with reduced activity. Homozygous males are sterile although spermatogenesis occurs. The Kit^{W-44J} allele does not produce anemia in either its heterozygous or homozygous state. The red blood cell count, white blood cell count, hematocrit, and mean cell volume are normal. However, bone marrow transplantation experiments reveal that the colony forming units in the bone marrow of Kit^{W-44J} homozygotes are much lower than normal despite the fact that the bone marrow has a normal cell count. While bone marrow transplantation from Kit^{W-44J} homozygotes can cure anemia in Kit^W/Kit^{W-v} hosts, it repopulates more slowly than does wild type bone marrow. Bone marrow from Kit^{W-44J} homozygotes also fails to repopulate the mast cells in the skin of Kit^W/Kit^{W-v} hosts. Wild type bone marrow transplanted into non-irradiated hosts out-competes the endogenous erythropoiesis in Kit^{W-44J} homozygotes but not in wild type hosts, further confirming a deficiency in erythropoiesis in these non-anemic mice. Mice doubly heterozygous for Kit^{W-44J} and Kit^{W-39J} are more mildly anemic than mice doubly heterozygous for Kit^{W-39J} and other second Kit^{W^e} alleles. (Geissler et al., 1981; Geissler and Russell, 1983; Sawada et al., 1991.)

Development

Genetics

Kit^{W-44J}

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

[Genotyping resources and troubleshooting](#)

Citation

When using the dominant spotting 44 Jackson mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #000122 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](#)



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Recovery

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Cryorecovery - Domestic Pricing

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