

C.129S1-Igh ^{tm1(Myc)Janz} /J

Stock No: 008332

 Congenic, Targeted Mutation

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(q24;q32) translocation and mouse plasmacytoma T(12;15) translocation. This mutant mouse strain may be useful in studies of Burkitt Lymphoma and plasma cell and B-cell neoplasia.

Donating Investigator

Siegfried Janz, University of Iowa

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GENETIC OVERVIEW

Genetic Background

Generation

Igh^{tm1(Myc)Janz}

Alele Type

Targeted (Inserted expressed sequence, Humanized sequence)

Gene Symbol

Igh

Gene Name

immunoglobulin heavy chain complex

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research

Research Tools

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

These mutant mice carry a His₆-tagged *Myc* gene (cDNA) sequence inserted in the endogenous immunoglobulin heavy chain complex (*Igh*) locus, which mimics the human endemic Burkitt lymphoma t(8;14)(q24;q32) translocation and mouse plasmacytoma T(12;15) translocation.

The His₆-tagged *Myc* is overexpressed in B-cells throughout B-cell development, as detected by FACS analysis. Tumor-free heterozygotes, 4 to 6 months of age, on a mixed B6;129X1 background, exhibit increased B-cell proliferation and apoptosis and have enlarged lymph nodes and spleen due to follicular hyperplasia. 68% of mutant mice between 6 and 21 months of age develop mature B-cell tumors that are IgM and BCL6 positive. Approximately half of the tumors detected are lymphoblastic B-cell lymphomas that are Burkitt-like in appearance and one fifth as plasmacytomas. The plasmacytomas occur in gut-associated lymphoid tissue (GALT), especially in the mesenteric lymph node and Peyer's patches. Mice that are homozygous for the targeted mutation are viable and fertile.

This mutant mouse strain may be useful in studies of Burkitt Lymphoma and B-cell and plasma cell neoplasia.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. This is the case for the strain above. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Igh^{tm1(Myc)Janz}

⊖ 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](#)

Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Mating System

Heterozygote x Heterozygote

Citation

When using the C.129S1-*Igh*^{tm1(Myc)Janz}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008332 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

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/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or Wild-type for Igh<tm1Janz>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	C.129S1-Igh<tm1(Myc)Janz>/J	\$2595.00
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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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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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