

B6.129S6(C)-Myc1^{tm1.1Kmm}/J

Stock No: **024666**

 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

Dr. Kenneth Murphy, Washington University School of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

Myc1^{tm1.1Kmm}

Alele Type

Targeted (Reporter, Null/Knockout)

Gene Symbol

Myc1

Gene Name

v-myc avian myelocytomatosis viral oncogene lung carcinoma derived

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Immunology, Inflammation and Autoimmunity 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

Mycl1^{gfp/gfp} mutant mice have an enhanced green fluorescent protein sequence replacing the first coding exon of the v-myc myelocytomatosis viral oncogene homolog, lung carcinoma derived (*Mycl*) gene, abolishing gene expression. Mice that are homozygous for this allele are viable and fertile. GFP fluorescence is visualized in dendritic cells (DCs) in lymphoid and non-lymphoid peripheral tissues. Specifically, *Mycl1^{gfp}* was expressed by CD11b⁺ and CD11b⁻ conventional dendritic cells (cDCs) in the small intestine, and in CD11b⁻ cDCs in the lung, liver and dermis. *Mycl1^{gfp}* was also expressed by CD4⁻ B220⁻ cells in small intestinal lamina propria, inside villi and within Peyer's patches. *Mycl1^{gfp}*-expressing DCs were found in the T-cell zones of spleen and lymph nodes. Mature DCs express L-Myc in the presence of inflammatory signals such as granulocyte-macrophage colony-stimulating factor (GMSF). *Mycl1*-deficient mice develop all DC cell types, except CD103⁺ migratory DC numbers in the lung and liver are reduced. Loss of L-Myc in DCs in these mice also causes a decrease in T-cell priming during infection by *Listeria monocytogenes* and vesicular stomatitis virus.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Mycl^{tm1.1Kmm}

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

Standard PCR:[Mycl-Alternate 2](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Mating System

Wild-type x Heterozygote

Heterozygote x Wild-type

Citation

When using the B6.129S6(C)-Mycl^{tm1.1Kmm}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #024666 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 PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Mycl<tm1.1Kmm>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6.129S6(C)-Myc1.1Kmm/J Frozen Embryo

\$2595.00

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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

Phone: 207-288-6470

Email: TechTran@jax.org

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