

B6.129S4-*Cdkn1b*^{tm1Mlf}/J

Stock No: 002781 | p27-

 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. Matthew Fero, Fred Hutchinson Cancer Research Center

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GENETIC OVERVIEW

Genetic Background

000664 C57BL/6J

Generation

Cdkn1b^{tm1Mlf}

Allele Type

Targeted (Null/Knockout)

Gene Symbol

Cdkn1b

Gene Name

cyclin-dependent kinase inhibitor 1B

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research

Reproductive Biology Research

Cell Biology 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

Mice deficient in $p27^{kip}$ are viable and larger than normal littermates, with increased cellularity of all tissues. The thymus and spleen are particularly enlarged. Homozygous (nullizygous) adult mice have a shortened lifespan due to the growth of benign intermediate lobe pituitary tumors. Female mice are infertile, with a follicular phase ovulatory block. Large doses of exogenous gonadotropin induce ovulation, but both implantation and intrauterine embryonic development is impaired. The mice demonstrate haploid-insufficient susceptibility to the development of adenomas in the pituitary, intestine and lung adenomas following exposure to gamma irradiation or chemical carcinogens.

Development

Control Suggestions

Selected References

Genetics

$Cdkn1b^{tm1Mlf}$

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:[Cdkn1b](#)

Standard PCR:[Generic Neo](#)

Standard PCR:[Cdkn1b](#)

Standard PCR:[Cdkn1b Alternate3](#)

Probe:[Generic Neo](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Homozygote males are fertile, but homozygote females are not. Colony currently maintained by heterozygote X heterozygote matings. Coat color from breeding: Black

[Additional Breeding and Husbandry Support](#)

Appearance

black

Related Genotype: *a/a*

Citation

When using the p27- mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002781 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 or Wild-type for Cdkn1b<tm1Mlf>	\$2,854.50

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