

B6.129-Per1^{tm1Drw}/JStock No: **010491** 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

David R. Weaver, Univ of Massachusetts Medical School

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GENETIC OVERVIEW

Genetic Background**Generation***Per1^{tm1Drw}***Allele Type****Gene Symbol****Gene Name**

Targeted (Null/Knockout)

Per1

period circadian clock 1

[VIEW GENETICS](#)

RESEARCH APPLICATIONS

Neurobiology 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 that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. No gene product (mRNA or protein) is detected by Northern or Western blot analysis of superchiasmatic nuclei. Homozygotes housed in constant darkness exhibit gradual circadian arrhythmicity (rhythmicity is not lost initially). Homozygotes exhibit phase shift responses to light. This mutant mouse strain may be useful in studies of circadian rhythm and sleep pattern.

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

Control Suggestions

Selected References

Genetics

$Per1^{tm1Drw}$

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:[Per1](#)

Separated PCR:[Per1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.129-*Per1^{tm1Drw}*/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #010491 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 wildtype for <i>Per1^{tm1Drw}</i>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129- <i>Per1^{tm1Drw}</i> /J	\$2595.00
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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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