

B6;129-Plp1^{tm1Kan} /J

Stock No: **003255** | PLP KO

 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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mutants.

Donating Investigator

Dr. Klaus-Armin Nave, Max-Planck-Institute of Experimental Med

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GENETIC OVERVIEW

Genetic Background

Generation

Plp1^{tm1Kan}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Plp1

proteolipid protein (myelin) 1

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Cell Biology Research

Developmental Biology Research

Cancer 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

The gene for myelin proteolipid protein (*Plp*) lies on the X chromosome. Mice homozygous or hemizygous for the *Plp*^{tm1Kan} targeted mutation are viable and fertile. Although they lack expression of the PLP protein, they show no sign of motor deficits, tremors or seizures, in contrast to most naturally occurring PLP mutants. PLP is a major membrane component of CNS myelin, and many PLP mutants show defects in myelin sheath formation. However, *Plp*^{tm1Kan} mice do not exhibit this dysmyelination. Some ultrastructural differences are observed in the myelin of *Plp*^{tm1Kan} mutant mice when compared to controls, including a less distinct difference between the major dense line (MDL) and the intraperiod line (IPL), which corresponds to reduced physical stability of the myelin sheath and suggests a function of PLP in maintenance of myelin architecture. *Plp*^{tm1Kan} mutant mice show no evidence of myelin breakdown with age.

Selected References

Genetics

Plp1^{tm1Kan}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Plp is X-linked. When maintaining a live colony, homozygous females may be bred to hemizygous males.

[Additional Breeding and Husbandry Support](#)

Citation

When using the PLP KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #003255 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	X linked - Homozygous Females and Hemizygous males for <i>Plp1</i> ^{tm1Kan} , 1 pair minimum	\$2,854.50

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Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs

that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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Phone: 207-288-6470

Email: TechTran@jax.org

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By Gene

By Collection






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