

B6(129P2)-Zpld1^{cwh}/Kjn

Stock No: **006123**

 Spontaneous Mutation

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phenotype than that of the *Zpld1^{sprl}* mutation and much more severe phenotype than a targeted deletion.

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GENETIC OVERVIEW

Genetic Background

Generation

Zpld1^{cwh}

Alele Type

Spontaneous (Not Specified)

Gene Symbol

Zpld1

Gene Name

zona pellucida like domain containing 1

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

Cell Biology Research

Sensorineural Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

Details

Detailed Description

Mice homozygous for the circler with hearing mutation exhibit hyperactive circling behavior with abnormal vestibulo-ocular reflex, but normal vestibular sensory evoked potential, normal hearing by ABR assessment and histologically normal cochlea, otolithic and vestibular organs. Homozygotes can swim to stay at the water's surface, but swim in circles. This phenotype is consistent with the fact that ZPLD1 is expressed by cells that synthesize the components of the cupula, the membrane overlying the crista ampullaris of the semicircular canal, which is important for sensing the rotation of the head. The abnormality in vestibulo-ocular reflex is less severe in circler with hearing homozygotes than in mice homozygous for the *Zpld1^{spr}* mutation (Stock No. [028920](#)) but only approximately half of the *Zpld1^{spr}* homozygotes display the circling phenotype. A targeted deletion of *Zpld1* (Stock No. [031591](#)) does not cause circling behavior although approximately one quarter of compound heterozygotes with one null and one *Zpld1^{spr}* allele do display some circling behavior. Mice heterozygous for the circler with hearing mutation also have reduced vestibulo-ocular gain, but less severe than do homozygotes, and one in 37 displayed circling. (Vijayakumar et al., 2019.)

Development

Selected References

Genetics

Zpld1^{cwh}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

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](#)

Citation

When using the B6(129P2)-Zpld1^{cwh}/Kjn mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006123 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



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	Heterozgous for Zpld1<cwh>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6(129P2)-Zpld1<cwh>/Kjn	\$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

LICENSING INFORMATION

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By Allele

By Gene

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Yes No