

C;AK-*Gja8*^{Lop10}/J

Stock No: 001490 | lens opacity 10

 Spontaneous 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. Bo Chang, JAX

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GENETIC OVERVIEW

Genetic Background Generation

Gja8^{Lop10}

Alele Type	Gene Symbol	Gene Name
Spontaneous	<i>Gja8</i>	gap junction protein, alpha 8

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research
Sensorineural 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 lens opacity 10 mutation in *Gja8* is semidominant. Homozygotes are microphthalmic with foamy cataract of the entire lens apparent when the eyes open at 12 days of age and increasing in opaqueness with age. Bladder cells are found adjacent to the anterior and posterior subcapsular regions of the lens before birth, the lens nucleus begins to liquefy by 4 days of age and ruptures posteriorly, then the lens capsule thickens. *Gja8^{Lop10}* Heterozygotes are not microphthalmic and the phenotype associated with the mutation varies according to the genetic background. A nuclear haze or snowflake nuclear opacity is found in F1 heterozygotes of some backgrounds while a more severe dense nuclear opacity is evident by 4 weeks of age in F1 heterozygotes of other backgrounds including AKR/J and BALB/cJ. Mice homozygous for the *Gja8^{tm1Paul}* targeted mutation, a recessive mutation in which the entire coding region is removed, do not display posterior lens rupture. Additionally, there is a decrease in phosphorylated *Gja3* in lens extracts from *Gja8^{Lop10}* homozygotes and mice doubly homozygous for *Gja8^{Lop10}* and a targeted mutation disrupting *Gja3* have a less severe phenotype than that of *Gja8^{Lop10}* homozygotes. (Runge et al., 1992; Chang et al., 2002.)

Development

Control Suggestions

Genetics

Gja8^{Lop10}

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

[Genotyping resources and troubleshooting](#)

Appearance

albino, cataract, small eye

Related Genotype: $Typr1^b / Typr1^b Tyr^c / Tyr^c Gja8^{Lop10} / Gja8^{Lop10}$

Citation

When using the lens opacity 10 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #001490 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

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Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for $Gja8^{Lop10}$	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	C;AK- $Gja8^{Lop10}$ /J	\$2595.00
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LICENSING INFORMATION

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Related Strains

All

By Allele

By Gene

By Collection



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