

B6.Cg-Lpcat1^{rd11}/Boc **FACULTY STRAIN**

Stock No: **006947**

 Congenic, Spontaneous Mutation

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fatty acids in this process, as well as other biological processes involving fatty acid regulation by *Lpcat1*.

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GENETIC OVERVIEW

Genetic Background

Generation

[N5F22](#)

(2020-04-23 00:00:00)

Lpcat1^{rd11}

Alele Type

Spontaneous

Gene Symbol

Lpcat1

Gene Name

lysophosphatidylcholine acyltransferase 1

VIEW GENETICS

RESEARCH APPLICATIONS

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$277.98 Domestic price for female

Details

Detailed Description

In *Lpcat1*^{rd11} homozygotes photoreceptors develop normally, but degenerate quickly after 21 days of age, with less than half the normal number of rows of photoreceptor nuclei remaining by 31 days of age, and even fewer at 47 days of age. By 36 days of age retinal vessels are attenuated and by 113 days of age there is clear retinal degeneration. Dark-adapted electroretinography shows a reduced rod photoreceptor a-wave at 3 weeks of age, which is flattened by 4 weeks of age. Cone photoreceptor response is normal at 3 weeks of age but substantially reduced at 4 and 5 weeks of age. Lipid extracts from retina analyzed by HPLC and mass spectrometry show that the ratio of dipalmitoylphosphatidylcholine (DPPC) to the peak lipid class is decreased from 84% in C57BL/6J to 38% in *Lpcat1*^{rd11} homozygotes. Distinctly lower levels of platelet activating factor C16 and lyso-platelet activating factor C16 were found in retinas of homozygotes compared with C57BL/6J. Administration of DPPC in the chow did not prevent retinal degeneration. The *Lpcat1*^{rd11} allele seems slightly more severe than the *Lpcat1*^{rd11-2J} allele.

Selected References

Genetics

Lpcat1^{rd11}

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](#)

Citation

When using the B6.Cg-Lpcat1^{rd11}/Boc mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006947 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [MGL277 \(Low\)](#)

Pricing & Availability



Availability
Varies

Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE

AGE	SEX	GENOTYPE	PRICE
Approx 4-8 weeks	Female	Homozygous for Lpcat1 ^{rd11}	\$277.98
	Male	Homozygous for Lpcat1 ^{rd11}	\$277.98

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Email: TechTran@jax.org

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