

**B6.129X1-Pon3<sup>tm1Lus</sup>/J**

Stock No: **027311** | Pon3KO

 Congenic, Targeted Mutation

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

PLACE ORDER

[Email](#) [Download PDF](#) [Help](#)

may be suitable for use in studies of atherosclerosis and obesity.

### Donating Investigator

Aldons J. Lusis, University of California at Los Angeles

READ MORE +

## GENETIC OVERVIEW

Genetic Background      Generation

*Pon3<sup>tm1Lus</sup>*

Alele Type	Gene Symbol	Gene Name
Targeted (Null/Knockout)	<i>Pon3</i>	paraoxonase 3

VIEW GENETICS

## RESEARCH APPLICATIONS

Cardiovascular Research  
Metabolism Research  
Research Tools

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 targeted *Pon3* gene encodes a glycoprotein enzyme that interacts with high density lipoprotein (HDL) and hydrolyzes lactones. These mice carry a knock-out allele of *Pon3* in which exon 4 has been replaced by a NEO cassette. No gene product (mRNA or protein) is detected by qPCR or Western blot analysis of liver from homozygotes. No lovastatinase activity is detected in liver homogenates from homozygous mice. When fed a cholate-cholesterol diet (15.8% fat, 1.25% cholesterol, and 0.5% sodium cholate), female knock-out mice develop larger (60% increase) atherosclerotic lesion size; 65% survival; increased levels of plasma total cholesterol, cholesterol ester, unesterified cholesterol; and decreased liver triglyceride levels compared to wildtype controls.

Mice that are homozygous for the targeted mutation are viable and fertile.

During backcrossing, the Y chromosome may not have been fixed to the C57BL/6J genetic background.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Pon3*<sup>tm1Lus</sup>

### Disease/Phenotype

#### Disease Terms

#### Research Areas By Phenotype

- 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:[Pon3](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

Mating System

Heterozygote x Heterozygote

Citation

When using the Pon3KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #027311 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
<a href="#">Cryo Recovery</a>	Heterozygous or wildtype for Pon3<tm1Lus>	\$2,854.50

## PAYMENT TERMS AND CONDITIONS

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.

## THE JACKSON LABORATORY'S GENOTYPE PROMISE

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

### ☰ Terms Of Use

#### TERMS OF USE

[General Terms and Conditions](#)

Q U E S T I O N S   A B O U T   T E R M S   O F   U S E

#### ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

#### LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

### ☰ Related Strains

All

By Allele

By Gene

By Collection



## DO YOU NEED BALB/c MICE?

Rely on JAX to provide the models you need, when you need them.

[LEARN MORE](#)



CONTACT



DONATE



SUBSCRIBE

[JAX HOME](#) [CAREERS](#) [LEGAL INFORMATION](#)

[RESEARCH CENTERS](#) [MOUSE GENOME INFORMATICS](#)

[MOUSE PHENOME DATABASE](#)

*Leading the search for*

# TOMORROW'S CURES



©2021 THE JACKSON LABORATORY

Choose other country or region

^ E E E D B

Did you find what you were looking for?

Yes  No