

B6.129S4-*Pparg*^{tm1Rev}/J

Stock No: 006142 | PPARgamma KO

 Congenic, 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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vascularization, leading to myocardial thinning and death by E10.0. A *lacZ* reporter in these mice recapitulates the endogenous *Pparg* expression pattern.

Donating Investigator

Yaacov Barak, University of Pittsburgh

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Pparg^{tm1Rev}

Alele Type

Targeted (Reporter, Null/Knockout)

Gene Symbol

Pparg

Gene Name

peroxisome proliferator activated receptor gamma

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Diabetes and Obesity Research

Developmental Biology Research

Cardiovascular 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

All mice homozygous for this targeted mutation die after gestational day 9.5 from severe placental defects and myocardial thinning. Heterozygotes are viable and fertile. White adipose tissue from heterozygous mice display approximately half the mRNA expression compared to wildtype. Tracer-determined glucose disposal rates and hepatic glucose production show that peripheral tissues and livers from heterozygotes are more sensitive to the effects of insulin than wildtype. This mutation eliminates both DNA-binding and ligand-binding functions of the endogenous gene, concomitantly generating a *lacZ* reporter that faithfully recapitulates the endogenous expression pattern. Heterozygous mice or homozygous embryo-derived cells may be useful in studies of embryo and placental development, diabetes, atherosclerosis, inflammation, and for beta-galactosidase reporter function of the endogenous gene.

Development

Control Suggestions

Genetics

Pparg^{tm1Rev}

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:[Pparg](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, heterozygous mutant mice are bred with C57BL/6J or wildtype siblings. Homozygous mice die *in utero*.

[Additional Breeding and Husbandry Support](#)

Citation

When using the PPARgamma KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006142 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

Domestic Pricing for

- Commercial & For-Profit
- Not-For-Profit & Academic

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or Wild-type for Pparg<tm1Rev>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129S4-Pparg<tm1Rev>/J Frozen Embryos	\$2595.00
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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.

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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

ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a no-fee license prior to shipping.](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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Yes No