



B 6 . 1 2 9 P 2 A G g4^{tm1.1Peco} / J

Stock No: 021335

Congenic, Targeted Mutation



CRYO RECOVERY

P L A C E O R D E R

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

Overview

This strain may be useful for studying the regulation of meiotic entry and meiotic sex chromosome inactivation in germ cells by small

RNA pathways.

Donating Investigator

Paula Cohen, Cornell University

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Ago4^{tm1.1Peco}

Allele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Ago4

argonaute RISC catalytic subunit 4

VIEW GENETICS

RESEARCH APPLICATIONS

Apoptosis Research

Cell Biology Research

Reproductive Biology Research

Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

These AGO4^{-/-} mice lack exons 3-17 of the argonaute RISC catalytic subunit 4 (*Ago4*) gene. This gene encodes one of the four Argonaute genes which are essential for processing of small RNAs in multiple RNA interference pathways. Ago4 is mainly expressed in the testis, specifically localized to the XY body during meiotic prophase I. Homozygous females and heterozygous males are viable and fertile, while homozygous males are subfertile. Males exhibit severely reduced fertility associated with premature entry of male germ cells into meiosis, and silencing defects in the XY body during meiosis. They have reduced testis size, lower sperm counts, and exhibit an increase in apoptotic cells within the prophase I layers of the seminiferous epithelium.

[+ Development](#)

[+ Control Suggestions](#)

[+ Selected References](#)

[- Genetics](#)

[+ Ago4^{tm1.1Peco}](#)

[- Disease/Phenotype](#)

[+ Disease Terms](#)

[+ Research Areas By Genotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

C H A T O  F L I N E

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

Separated PCR:[Ago4^{tm1.1Peco}](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous females may be bred to heterozygous males from the colony. Homozygous males are subfertile.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.129P2(Cg)-[Ago4^{tm1.1Peco}](#)/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #021335 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	GENOTYPE	PRICE
Cryo Recovery	Heterozygous or wildtype for Ago4<tm1.1Peco>	\$2,854.50

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a [Dedicated Supply](#) for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

Related Products and Services

Frozen Mouse Embryo	B6.129P2(Cg)-Ago4<tm1.1Peco>/J	\$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.

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Terms of Use

[General Terms and Conditions](#)

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Licensing Information

Phone: 207-288-6470

Email: TechTran@jax.org

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