

B6.129S4-Pdgfra^{tm11(EGFP)Sor} /J

Stock No: **007669** | PDGFR α ^{EGFP}

 Congenic, Targeted Mutation

Live mice available in varying quantities. Ask Customer Service for details.

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expression pattern of the endogenous gene. Homozygotes exhibit abnormal placenta development and placenta vasculature. This mutant mouse strain may be useful in studies of cellular signaling during development and in adult mice; specifically receptor tyrosine kinases (RTK; such as Ras, MAP kinase, PI3K and those in the platelet-derived growth factor (PDGF) family).

Donating Investigator

Dr. Philippe Soriano, Mount Sinai School of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

N17+N3F2
(2021-01-04 00:00:00)

Pdgfra^{tm11(EGFP)Sor}

Alele Type

Targeted (Reporter,
Null/Knockout)

Gene Symbol

Pdgfra

Gene Name

platelet derived growth factor receptor, alpha polypeptide

VIEW GENETICS

RESEARCH APPLICATIONS

Cell Biology Research
Developmental Biology Research
Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$278.00 Domestic price for female 4-week

348.51 Domestic price for breeder pair

V I E W P R I C E L I S T

Details

Detailed Description

Mice homozygous for this knock-in targeted mutation have an embryonic lethal phenotype, with half of the embryos failing to survive past embryonic day 12.5 and the remainder failing to survive beyond embryonic day 15.5. These mice express the H2B-eGFP fusion gene from the endogenous *Pdgfra* locus. Fluorescence is detectable at embryonic day 4.5 in polar trophectoderm cells and at embryonic day 6.5 in the extraembryonic ectoderm. Expression of H2BGFP mimick the expression pattern of the endogenous gene. Homozygotes exhibit abnormal placenta development and placenta vasculature. This mutant mouse strain may be useful in studies of cellular signaling during development and in adult mice; specifically receptor tyrosine kinases (RTK; such as Ras, MAP kinase, PI3K and those in the platelet-derived growth factor (PDGF) family).

Development

Expression Data

Control Suggestions

Selected References

Genetics

Pdgfra^{tm11(EGFP)Sor}

⊖ 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

Standard PCR:[Pdgfra](#)

Standard PCR:[Pdgfra](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, these mice can be bred as heterozygotes. Homozygotes have an embryonic lethal phenotype.

[Additional Breeding and Husbandry Support](#)

Mating System

Heterozygote x +/+ sibling

Citation

When using the PDGFR α ^{EGFP} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007669 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX11 \(Maximum\)](#)

⊖ Pricing & Availability



Live mice available in varying quantities. Ask Customer Service for details.

Available

Domestic Internatio

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}	\$278.00
	Male	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}	\$278.00
4 weeks	Female	Wildtype for Pdgfra ^{tm1(EGFP)Sor}	\$78.51
	Male	Wildtype for Pdgfra ^{tm1(EGFP)Sor}	\$78.51
5 weeks	Female	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}	\$278.00
	Male	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}	\$278.00
5 weeks	Female	Wildtype for Pdgfra ^{tm1(EGFP)Sor}	\$78.51
	Male	Wildtype for Pdgfra ^{tm1(EGFP)Sor}	\$78.51
6 weeks	Female	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}	\$278.00
	Male	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}	\$278.00
6 weeks	Female	Wildtype for Pdgfra ^{tm1(EGFP)Sor}	\$78.51
	Male	Wildtype for Pdgfra ^{tm1(EGFP)Sor}	\$78.51
7 weeks	Female	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}	\$278.00
	Male	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}	\$278.00
7 weeks	Female	Wildtype for Pdgfra ^{tm1(EGFP)Sor}	\$78.51
	Male	Wildtype for Pdgfra ^{tm1(EGFP)Sor}	\$78.51
8 weeks	Female	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}	\$278.00
	Male	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}	\$278.00
8 weeks	Female	Wildtype for Pdgfra ^{tm1(EGFP)Sor}	\$78.51
	Male	Wildtype for Pdgfra ^{tm1(EGFP)Sor}	\$78.51
9 weeks	Female	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}	\$278.00
	Male	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}	\$278.00
9 weeks	Female	Wildtype for Pdgfra ^{tm1(EGFP)Sor}	\$78.51
	Male	Wildtype for Pdgfra ^{tm1(EGFP)Sor}	\$78.51
10 weeks	Female	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}	\$278.00
	Male	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}	\$278.00
10 weeks	Female	Wildtype for Pdgfra ^{tm1(EGFP)Sor}	\$78.51
	Male	Wildtype for Pdgfra ^{tm1(EGFP)Sor}	\$78.51
11 weeks	Female	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}	\$278.00
	Male	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}	\$278.00

11 weeks	SEX	Wildtype for Pdgfra ^{tm1(EGFP)Sor}	\$78.51
	Male	Wildtype for Pdgfra	\$78.51
12 weeks	Female	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}	\$278.00
	Male	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}	\$278.00
12 weeks	Female	Wildtype for Pdgfra ^{tm1(EGFP)Sor}	\$78.51
	Male	Wildtype for Pdgfra ^{tm1(EGFP)Sor}	\$78.51

BREEDER PAIR			
SEX	GENOTYPE		PRICE
Female	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}		\$348.51
Male	Wildtype for Pdgfra ^{tm1(EGFP)Sor}		
Female	Wildtype for Pdgfra ^{tm1(EGFP)Sor}		\$348.51
Male	Heterozygous for Pdgfra ^{tm1(EGFP)Sor}		

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	B6.129S4-Pdgfra<tm1(EGFP)Sor>/J Frozen Embryo	\$2595.00

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Email: TechTran@jax.org

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