

B6;129S4-2610005L07Rik^{Gt(ROSA)73Sor} /J

Stock No: **007204**

 Gene Trap, 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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growth factor (PDGF) family) and immediate early genes (IEG) induced shortly after RTK activation.

Donating Investigator

Dr. Philippe Soriano, Mount Sinai School of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

2610005L07Rik^{Gt(ROSA)73Sor}

Alele Type

Gene Symbol

Gene Name

Gene trapped (Reporter, Null/Knockout)

2610005L07Rik

RIKEN cDNA 2610005L07 gene

VIEW GENETICS

RESEARCH APPLICATIONS

Cell Biology Research

Developmental Biology Research

Research Tools

Cardiovascular Research

Internal/Organ 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

Mice homozygous for this mutant allele (called *BC058969* in the primary publication) are viable and fertile, with greater than 50% embryonic lethality observed in homozygous embryos. Homozygotes occur at a lower than Mendelian ratio (9%) from heterozygote x heterozygote crosses. No gene product is detected in homozygous embryos aged ED9.5-12.5 or in adult gonad. Homozygotes exhibit defects that affect the same cell types and processes as those controlled by the platelet-derived growth factor (PDGF) pathway, including vasculature, kidney, and skeletal defects (sternum and calvarial bones). Notably, 100% incidence of calvarial bones defects is reported. Additionally, homozygotes are reported to have low β -galactosidase activity; *in situ* hybridization or other sensitive methods may be necessary to detect expression of the *lacZ-neo* reporter fusion gene. These *BC058969*-mutant (*2610005L07Rik*-mutant) mice may be useful in studying cellular signaling in development and adult mice; specifically receptor tyrosine kinases (RTK; such as Ras, MAP kinase, PI3K and those in the platelet-derived growth factor (PDGF) family) and immediate early genes (IEG) induced shortly after RTK activation.

Development

Control Suggestions

Selected References

Genetics

2610005L07Rik^{Gt(ROSA)73Sor}

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:[2610005L07Rik](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, heterozygous or homozygous mice may be bred. Greater than half of all homozygous pups die *in utero*.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6;129S4-2610005L07Rik^{Gt(ROSA)73Sor}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007204 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
Cryo Recovery	Heterozygous or Wild-type for 2610005L07Rik<Gt(ROSA)73Sor>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6;129S4-2610005L07Rik<Gt(ROSA)73Sor>/J Frozen Embryo	\$2595.00
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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

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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