

B6;129S-Gt(ROSA)26Sor^{tm1(Cdkn1c)Jfpa}/J

Stock No: **022516** | R26loxTA-p57^k

 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](#)

cell cycle arrest in G1 phase of the *cre* expressing cells.

Donating Investigator

James F Padbury, Women & Infants Hospital of Rhode Island

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Gt(ROSA)26Sor^{tm1(Cdkn1c)Jfpa}

Alele Type

Targeted (Conditional ready (e.g. floxed), Inserted expressed sequence)

Gene Symbol

Gt(ROSA)26Sor

Gene Name

gene trap ROSA 26, Philippe Soriano

VIEW GENETICS

RESEARCH APPLICATIONS

Cell Biology Research

Research Tools

Apoptosis Research

Cancer Research

Neurobiology 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

The *R26loxP*TA-p57 allele has a *loxP*-flanked transcriptional termination cassette upstream of a mouse p57^{Kip2} (*Cdkn1c*) cDNA sequence, all inserted into the *Gt(ROSA)26Sor* locus. Although under control of the *Gt(ROSA)26Sor* promoter, widespread expression of p57^{Kip2} is prevented by the upstream floxed-STOP cassette in the absence of Cre recombinase. Heterozygous mice (*R26loxP*TA-p57^{K/+}) are viable and fertile with no reported phenotypic abnormalities. The donating investigator reports that homozygous mice (*R26loxP*TA-p57^{K/K}) have the same phenotype as heterozygous mice.

When bred to mice that express Cre recombinase, offspring will have the floxed-STOP cassette deleted in *cre*-expressing cells; resulting in p57^{Kip2} expression and subsequent cell cycle inhibition/arrest in G1 phase.

For example, when *R26loxP*TA-p57 mice are bred with mice expressing Cre recombinase in myocardial cells (Mlc2v-Cre knockin), the myocardial specific p57^{Kip2} expression in the embryonic and adult ventricular cardiomyocytes attenuates hypoxic-ischemic injury.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Gt(ROSA)26Sor^{tm1(Cdkn1c)Jfpa}

⊖ 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

Probe: [Gt\(rosa\)26sor Probe](#)

Separated MCA: [Gt\(ROSA\)26Sor STD](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred together, to wildtype mice from the colony, or to C57BL/6J inbred mice (Stock No. [000664](#)). The donating investigator reports that homozygous mice (*R26loxP*TA-p57^{K/K}) have the same phenotype as heterozygous mice.

[Additional Breeding and Husbandry Support](#)

Citation

When using the *R26loxP*TA-p57^k mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #022516 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



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 wildtype for Gt(ROSA)26Sor<tm1(Cdkn1c)Jfpa>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6;129S-Gt(ROSA)26Sor<tm1(Cdkn1c)Jfpa>/J Frozen Embryo	\$2595.00
---------------------	--	-----------

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](#)

QUESTIONS ABOUT TERMS OF USE

LICENSING INFORMATION

Phone: 207-288-6470
Email: 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