

C57BL/6-Gt(ROSA)26Sor<sup>tm5(Map3k14)Rsky</sup> /J

Stock No: 012637

 Coisogenic, 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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## Donating Investigator

Klaus Rajewsky, Max Delbrück Centre for Molecular Medicine

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## GENETIC OVERVIEW

Genetic Background

Generation

*Gt(ROSA)26Sor<sup>tm5(Map3k14)Rsky</sup>*

### Alele Type

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

### Gene Symbol

*Gt(ROSA)26Sor*

### Gene Name

gene trap ROSA 26, Philippe Soriano

VIEW GENETICS

## RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research  
Research Tools

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 the *NIK-wt* allele are viable and fertile, with a *loxP*-flanked Neo-STOP cassette preventing transcription of the downstream bicistronic sequences (NIK [a wt form of the mouse NF-kappaB inducing kinase] and EGFP). When bred to mice that express Cre recombinase, offspring will have the STOP cassette deleted and subsequent expression of the NIK-wt molecule and EGFP fluorescence in the *cre*-expressing cells. Expression of *NIK-wt* leads to overexpression of NIK in mouse B lymphocytes, amplifying alternative NF-kappaB activation and peripheral B cell numbers, in a B cell-activating factor of the TNF family receptor (BAFF-R) dependent manner. BAFF-R binding is required to sustain the NIK p100 subunit processing needed for B cell survival, and is implicated in human multiple myeloma.

Of note, breeding these mice to an FLP-expressing strain will result in removal of the *flp*-flanked IRES-EGFP cassette.

When bred to a strain expressing Cre recombinase throughout B lymphocyte development and differentiation (see Stock No. [006785](#) for example), this mutant mouse strain exhibits increased B cell numbers.

#### Development

#### Expression Data

#### Control Suggestions

#### Selected References

### Genetics

#### $Gt(ROSA)26Sor^{tm5(Map3k14)Rsky}$

## ⊖ Disease/Phenotype

[+ Disease Terms](#)

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[+ Research Areas By Phenotype](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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[+ References](#)

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## ⊖ 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

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

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the C57BL/6-[Gt\(ROSA\)26Sor<sup>tm5\(Map3k14\)Rsky</sup>](#) /J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #012637 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

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 for Gt(ROSA)26Sor<tm5(Map3k14)Rsky>	\$2,854.50

## 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](#)

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 license prior to shipping.](#)

### LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

## Related Strains

All

By Allele

By Gene

By Collection



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