

## B6.129-Gt(ROSA)26Sor<sup>tm1Joe</sup>/J

Stock No: 008606 | ROSA26-GNZ KI

 Congenic, 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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protein/beta-galactosidase fusion protein (GFP-NLS-*lacZ* or GNZ) once an upstream *loxP*-flanked STOP sequence is removed. When bred to *cre* expressing mice, the resulting GNZ fusion protein expression in the offspring allows for enhanced (single cell level) visualization.

### Donating Investigator

IMR Colony, The Jackson Laboratory

READ MORE +

## GENETIC OVERVIEW

Genetic Background

Generation

### *Gt(ROSA)26Sor<sup>tm1Joe</sup>*

**Alele Type**

Targeted (Reporter)

**Gene Symbol**

*Gt(ROSA)26Sor*

**Gene Name**

gene trap ROSA 26, Philippe Soriano

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology 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

Homozygous ROSA26 GNZ knock-in mice are viable and fertile, with a nuclear-localized green fluorescent protein/beta-galactosidase fusion protein (GFP-NLS-*lacZ* or GNZ) inserted into the *Gt(ROSA)26Sor* (ROSA26) locus. Widespread expression of GNZ is blocked by an upstream *loxP*-flanked STOP sequence (in the absence of Cre recombinase, no expressed GFP or beta-galactosidase activity is observed in GNZ embryos(E9.5-18.5)). When bred to *cre* expressing mice, offspring will have the STOP sequence deleted in tissues where Cre recombinase is present. The resulting GNZ fusion protein expression allows for enhanced (single cell level) visualization / resolution. The donating investigator reports that Cre recombinase activity can be visualized by direct GFP fluorescence, but the high resolution nuclear staining of GNZ may be best visualized by immunostaining for either GFP or beta-galactosidase. These ROSA26 GNZ mice are useful as a Cre reporter strain; expressing both GFP and beta-galactosidase following Cre-mediated recombination.

*In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.*

#### Development

#### Expression Data

#### Control Suggestions

#### Selected References

### Genetics

#### *Gt(ROSA)26Sor<sup>tm1Joe</sup>*

## – 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

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

Mutant mice were bred to C57BL/6J mice for many generations to establish this congenic strain. When maintaining the live congenic colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

### Mating System

Homozygote x Homozygote

### Citation

When using the ROSA26-GNZ KI mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008606 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
<a href="#">Cryo Recovery</a>	Heterozygous for Gt(ROSA)26Sor<tm1Joe>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	B6.129-Gt(ROSA)26Sor<tm1Joe>/J Frozen Embryo	\$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.

## 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

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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

### 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

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By Gene

By Collection



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