

**B6;129-Slc30a3<sup>tm1Rpa</sup>/J**

Stock No: **005064** | ZnT3 KO

 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

Dr. Richard Palmiter, University of Washington

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## GENETIC OVERVIEW

Genetic Background      Generation

*Slc30a3<sup>tm1Rpa</sup>*

#### Alele Type

Targeted (Reporter,  
Null/Knockout)

#### Gene Symbol

*Slc30a3*

#### Gene Name

solute carrier family 30 (zinc transporter), member 3

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

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

Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. No gene product (protein) is detected in brain homogenates by Western blot analysis. Beta-galactosidase activity pattern in homozygotes mimics endogenous gene expression. Total zinc levels in the hippocampus and cortex is reduced by approximately 20%. Histochemically reactive and immunoreactive synaptic vesicle zinc is undetectable. There is no N-(6-Methoxy-8-quinolyl)-p-Toluene-Sulfonamide (TSQ) fluorescence in hippocampal tissues, although it is detected in testis and pancreas. This mutant mouse strain may be useful in studies of zinc transport into synaptic vesicles.

#### Development

#### Expression Data

#### Control Suggestions

#### Selected References

### Genetics

#### *Slc30a3<sup>tm1Rpa</sup>*

### 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:[Slc30a3](#)

Separated PCR:[Slc30a3](#)

[Genotyping resources and troubleshooting](#)

#### Breeding Considerations

The resulting chimeric animals were crossed to 129S4/SvJaeSor mice, and then backcrossed to C57BL/6 for 3 generations (June 2003).

[Additional Breeding and Husbandry Support](#)

#### Citation

When using the ZnT3 KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #005064 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
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## RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6;129-Slc30a3&lt;tm1Rpa&gt;/J Frozen Embryos

\$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

## 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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