

C57BL/6J-Slc30a4^{lm}/J

Stock No: 000219 | lethal milk

 Spontaneous Mutation

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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during the first week of life and detrimental to mice nursed thereafter. The lethal and detrimental effects are due to a deficiency of zinc in the milk. If foster nursed on normal dams, lethal milk homozygotes survive and become reproductively mature. Zinc supplementation of the drinking water of dams enables them to nurse their young successfully. All homozygous mutant mice lack utricular otoliths and this defect is not prevented by zinc supplementation. They have varying loss of saccular otoliths and show mild behavioral abnormalities related to the otolith defect. Homozygotes over eight months of age show progressive hair loss, dermatitis, and skin lesions, symptoms of zinc deficiency.

GENETIC OVERVIEW

Genetic Background

Generation

Slc30a4^{lm}

Allele Type

Gene Symbol

Gene Name

Spontaneous

Slc30a4

solute carrier family 30 (zinc transporter), member 4

V I E W G E N E T I C S

RESEARCH APPLICATIONS

Metabolism Research
Dermatology Research
Developmental Biology Research
Neurobiology Research
Sensorineural Research

V I E W A L L R E S E A R C H A P P L I C A T I O N S

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

Female mice homozygous for the lethal milk mutation (*Slc30a4^{lm}*, formerly *Znt4^{lm}*) produce milk that is lethal to mice nursed during the first week of life and detrimental to mice nursed thereafter. The lethal and detrimental effects are due to a deficiency of zinc in the milk. If foster nursed on normal dams, lethal milk homozygotes survive and become reproductively mature. Zinc supplementation of the drinking water of dams enables them to nurse their young successfully. All homozygous mutant mice lack utricular otoliths and this defect is not prevented by zinc supplementation. They have varying loss of saccular otoliths and show mild behavioral abnormalities related to the otolith defect. Homozygotes over eight months of age show progressive hair loss, dermatitis, and skin lesions, symptoms of zinc deficiency.

Development

Control Suggestions

Genetics

Slc30a4^{lm}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

- 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

Restriction Enzyme Digest: [Slc30a4](#)

End Point Analysis: [Slc30a4](#)

[Genotyping resources and troubleshooting](#)

Appearance

black

Related Genotype: *a/a*

Citation

When using the lethal milk mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #000219 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 for Slc30a4	\$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.

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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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TOMORROW'S CURES



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