

STOCK *Lin28a*^{tm1.1Gqda} /J

Stock No: 023916

 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

George Q. Daley, Children's Hospital Boston

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GENETIC OVERVIEW

Genetic Background

Generation

Lin28a^{tm1.1Gqda}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Lin28a

Gene Name

lin-28 homolog A (C. elegans)

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

Internal/Organ Research

Metabolism 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

LIN28A (lin-28 homolog A (C. elegans)) is an RNA-binding protein that blocks biogenesis of *Mirlet7* (let-7) microRNAs. Let-7 targets are known regulators of mammalian body size and metabolism.

These mice carry a germline knockout of the *Lin28a* gene. Homozygous mice show dwarfism as early as E13.5 and by E18.5 demonstrate a 20% reduction in weight relative to heterozygous controls. Although born at expected Mendelian ratios, roughly 93% of *Lin28a* knockout mice die within 1 day of birth (2 out of 5 mice harboring a cardiac ventricular septal defect). Those animals that survive are 30-50% smaller in weight and 20-30% shorter in length than controls. Dual-energy x-ray absorptiometry imaging confirms a decreased fat mass and also reveals decreased bone mineral density in the knockout animals, suggesting that these animals suffer from metabolic dysregulation.

+ Development

+ Control Suggestions

+ Selected References

- Genetics

+ *Lin28a*^{tm1.1Gqda}

- 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

Standard PCR:[Lin28a-Alternate 2](#)

Standard PCR:[Generic Neo](#)

Probe:[Generic Neo](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Heterozygotes are viable and fertile. Most homozygotes die within 1 day of birth, many having a cardiac ventricular septal defect.

[Additional Breeding and Husbandry Support](#)

Citation

When using the STOCK *Lin28a^{tm1.1Gqda}/J* mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #023916 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 or wildtype for <i>Lin28a^{tm1.1Gqda}</i>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

STOCK Lin28a<tm1.1Gqda>/J Frozen Embryo

\$2595.00

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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