

STOCK *Lin28b*^{tm1.2Gqda} /J

Stock No: 023914

 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

Lin28b^{tm1.2Gqda}

Alele Type

Targeted (Conditional ready
(e.g. floxed), No functional
change)

Gene Symbol

Lin28b

Gene Name

lin-28 homolog B (C. elegans)

VIEW GENETICS

RESEARCH APPLICATIONS

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

Lin28b (lin-28 homolog B (C. elegans)) is highly expressed during normal embryogenesis and is upregulated in some cancers to potentially and selectively block the maturation of let-7 (*Mirlet7*) tumor suppressor microRNA's.

Exon 2 of the gene, encoding the functional cold shock domain, was flanked by loxP sites in this conditional mutation strain. Cre-mediated excision of the floxed segment creates a knockout allele.

Male (but not female) knockout mice created through crosses with germline-specific *Ddx4-cre* mice (e.g. Stock No. [006954](#)) show postnatal dwarfism and reduced organ weights.

Skeletal muscle-directed knockouts of *Lin28b*, created through crosses with *Myf5* (myogenic factor 5)-*cre* mice, produce males with phenotypic dwarfism that recapitulates that of the germline deletion. Muscle-specific loss of LIN28B leads to insulin resistance and impaired glucose uptake.

Development

Control Suggestions

Selected References

Genetics

Lin28b^{tm1.2Gqda}

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:[Lin28b](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Homozygous and heterozygous floxed mice are viable and fertile.

[Additional Breeding and Husbandry Support](#)

Citation

When using the STOCK *Lin28b*^{tm1.2Gqda}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #023914 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 Lin28b<tm1.2Gqda>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	STOCK Lin28b<tm1.2Gqda>/J Frozen Embryo	\$2595.00
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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.

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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

Related Strains

All

By Allele

By Gene

By Collection



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TOMORROW'S CURES



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Yes No