

STOCK *L3mbtl2*^{tm1.1Hah} /J

Stock No: **029979** | *L3mbtl2* floxed exons 9-14

 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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embryonic development, methylated histone-binding and the polycomb repressive complex (e.g., PRC1.6).

Donating Investigator

Hanno R Hock, Massachusetts General Hospital

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GENETIC OVERVIEW

Genetic Background

Generation

L3mbtl2^{tm1.1Hah}

Alele Type

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

Gene Symbol

L3mbtl2

Gene Name

L3MBTL2 polycomb repressive complex 1 subunit

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research
Research Tools
Cancer Research
Cell Biology 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

Malignant brain tumor (MBT) domain chromatin reader proteins bind to methylated histone lysine residues and associate with chromatin remodeling complexes. One such protein, L3MBTL2, functions in early embryonic development and methylated histone-binding, and is an essential component of an atypical Polycomb complex (termed polycomb repressive complex 1.6 or PRC1.6).

The L3mbtl2 floxed exons 9-14 allele has *loxP* sites flanking the sequences encoding its three C-terminal MBT domains. Mice homozygous for the L3mbtl2 floxed allele are viable and fertile with no reported gross phenotypic or behavioral abnormalities.

Upon exposure to Cre recombinase, the floxed sequences are deleted - resulting in a null allele (no mRNA or protein is expressed).

For example, when bred to germline Cre-expressing mice (e.g., GATA1-Cre), the resulting L3mbtl2 global knockout homozygotes die *in utero* with failure of gastrulation. Mice heterozygous for the L3mbtl2 global knockout were viable and fertile with no reported abnormalities.

Development

Control Suggestions

Selected References

Genetics

L3mbtl2^{tm1.1Hah}

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:[L3mbtl2-Alternate 1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Mice homozygous for the L3mbtl2 floxed allele are viable and fertile with no reported gross phenotypic or behavioral abnormalities. When maintaining a live colony, heterozygous mice may be bred together or to wildtype mice from the colony. Alternatively, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Mating System

Heterozygote x Heterozygote

Citation

When using the L3mbtl2 floxed exons 9-14 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #029979 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 wildtyped for L3mblt2<tm1.1Haho>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	STOCK L3mblt2<tm1.1Haho>/J	\$2595.00
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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

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LICENSING INFORMATION

Phone: 207-288-6470

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