

DW/J *Mlph^{ln}* *Pou1f1^{dw}* /J
 Stock No: 000643 | dwarf

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

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hypothyroidism. The strain also carries the coat color mutation, *leaden*, as an aid for identifying genotypes.

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GENETIC OVERVIEW

Genetic Background

Generation

Pou1f1^{dw}

Alele Type

Spontaneous

Gene Symbol

Pou1f1

Gene Name

POU domain, class 1, transcription factor 1

Mlph^{ln}

Alele Type

Spontaneous

Gene Symbol

Mlph

Gene Name

melanophilin

VIEW GENETICS

RESEARCH APPLICATIONS

Dermatology Research
 Developmental Biology Research
 Endocrine Deficiency Research
 Immunology, Inflammation and Autoimmunity Research
 Reproductive Biology Research
 Mouse/Human Gene Homologs
 Cell Biology Research

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Mice homozygous mice for the dwarf spontaneous mutation (*Pou1f1^{dw}*) are characterized by severe dwarfing, sterility, and hypothyroidism. Adult dwarf mice are about one-fourth to one-third the size of wildtype mice. There is a lack of growth hormone, prolactin and thyroid stimulating hormone producing cells in the anterior pituitary leading to severe endocrine deficiency of these hormones. Homozygous mutant mice show a transient loss in cortical thymocytes associated with the primary defect in anterior pituitary.

Development

Control Suggestions

Selected References

Genetics

Pou1f1^{dw}

Mlphⁿ

Disease/Phenotype

[+ Disease Terms](#)

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ Phenotype Information](#)

[+ 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

Sanger sequencing:[Pou1f1](#)

Sanger sequencing:[Mlph Alternate1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Homozygotes require powdered food and easy access to water to survive. Homozygotes are often not weaned until 4 weeks of age.

[Additional Breeding and Husbandry Support](#)

Appearance

agouti leaden, small body size

Related Genotype: $A/A Mlph^{ln} / Mlph^{ln} Pit1^{dw} / Pit1^{dw}$

agouti leaden, normal size

Related Genotype: $A/A Mlph^{ln} / Mlph^{ln} +/?$

Citation

When using the dwarf mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #000643 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.

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Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Homozygous for Mlph<In>, Heterozygous or homozygous or wildtype for Dw	\$2,854.50

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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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