Overview

This spontaneous mutation of the dedicator of cytokinesis 7 (Dock7<sup>m</sup>) gene or misty displays a dilute coat color, variable spotting and some abnormalities in platelets and adipose tissue.

PLACE ORDER

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

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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B 6. D 2 (B6D2c) k<sup>m</sup>/7J

Stock No: 009659

Congenic, Spontaneous Mutation
Dock7

**Allele Type**
Spontaneous

**Gene Symbol**
Dock7

**Gene Name**
dedicator of cytokinesis 7

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**RESEARCH APPLICATIONS**
Dermatology Research

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**BASE PRICE**
Starting at:

$2,854.50 Domestic price
Cryo Recovery

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**Details**

**Detailed Description**
The recessive misty mutation causes a mild dilution of coat color and on certain backgrounds a white tail tip often accompanied by a belly spot. Melanocytes from m/m mice have a highly dendritic shape, show deficient proliferation in culture and have much more melanin content. Fewer melanoblasts are found in primary cultures from m/m mice than from wildtype controls. Between two and five weeks of age, m/m mice are smaller than controls. At 35 days of age they are shorter, weigh 15% less on average, and have less inguinal adipose mass than controls. Misty homozygotes completely lack brown fat. Although platelet count, serotonin content and ATP content are normal, there is increased bleed time and reduced platelet ADP levels in m/m homozygotes. (Woolley, 1941 and 1945; Truett et al., 1998; Sviderskaya et al., 1998.)

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**Development**

**Control Suggestions**

**Selected References**

**Genetics**

**Dock7**

**Disease/Phenotype**
Genotyping Protocols
Standard PCR: Dock7<sup>m</sup>
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice are bred as homozygotes.

Additional Breeding and Husbandry Support

Citation
When using the B6.D2(BKS)-Dock7<sup>m</sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #009659 in your Materials and Methods section.

Animal Health Reports
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.

<table>
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<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Homozygous for , 1 pair minimum</td>
<td>$2,854.50</td>
</tr>
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</table>

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second
recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryo recovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

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.

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.

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains