Overview

B6;129S7-Dp(17Abcg1-Rrp1b)3Yey/J

Stock No: 013531

Congenic, Duplication

PLACE ORDER

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.
This Dp(17)3Yey/+ mutant strain contains one copy of mouse Chromosome 17 with the targeted sequence duplicated between, and including, the ATP-binding cassette, sub-family G (WHITE), member 1 (Abcg1) gene and ribosomal RNA processing 1 homolog B (S. cerevisiae) (Rrp1b) gene. These mice may be useful for understanding developmental and cognitive disabilities associated with Down's Syndrome.

Donating Investigator
Y. Eugene Yu, Roswell Park Cancer Institute

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>Dp(17Abcg1-Rrp1b)3Yey</td>
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<table>
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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Not Applicable)</td>
<td>Dp(17Abcg1-Rrp1b)3Yey duplication, Chr 17, Y Eugene Yu 3</td>
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RESEARCH APPLICATIONS
Mouse/Human Gene Homologs
Developmental Biology Research
Neurobiology Research

BASE PRICE
Starting at:

$2,854.50 Domestic price Cryo Recovery

Details
Detailed Description
This Dp(17)3Yey/+ mutant strain contains one copy of mouse Chromosome 17 with the targeted sequence duplicated between, and including, the ATP-binding cassette, sub-family G (WHITE), member 1 (Abcg1) gene and ribosomal RNA processing 1 homolog B (S. cerevisiae) (Rrp1b) gene. Hemizygous mice are viable and fertile. This duplicated region on the mouse chromosome is one of three regions orthologous to an extra copy of human Chromosome 21 (Hsa21) which has been implicated in developmental...
cognitive disabilities associated with Down Syndrome (DS). Dp(17)3Yey/+ contains a duplication syntenic to the proximal part of human 21q22.3, and carries 19 genes orthologous to genes on Hsa21. When mice carrying this transgene are bred to B6;129-Dp(10Prmt2-Pdxk)2Yey/J mice (Stock No. 013529) and B6;129-Dp(16Lipi-Zfp295)1Yey/J mice (Stock No. 013530) to create a triple transgenic strain containing all Hsa21 regions, the resulting mice exhibit DS related neurological defects. These mice display reduction in body length and weight, hydrocephaly caused by aqueductal stenosis, impaired grip strength, impaired learning, and a deficit in long-term potentiation. 26% of triple transgenic offspring die shortly after birth due to heart defects. These mice may be useful for understanding developmental and cognitive disabilities associated with DS.

Genotyping Protocols
- Standard PCR: Dp(17Abcg1-Rrp1b)3Yey
- Separated MCA: Dp(17Abcg1-Rrp1b)3Yey
- Separated PCR: Dp(17Abcg1-Rrp1b)3Yey

Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, hemizygous mice may be bred to non-carrier (wildtype) mice from the colony or to C57BL/6J inbred mice (Stock No. 000664).

Additional Breeding and Husbandry Support
Citation

When using the B6;129S7-Dp(17Abcg1-Rrp1b)3Yey/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #013531 in your Materials and Methods section.

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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<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or wildtype for Dp(17Abcg1-Rrp1b)3Yey</td>
<td>$2,854.50</td>
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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.

Cryorecovery 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.

Related Products and Services

| Frozen Mouse Embryo | B6;129S7-Dp(17Abcg1-Rrp1b)3Yey/J Frozen Embryo | $2595.00 |

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.

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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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Licensing Information
Phone: 207-288-6470
Email: TechTran@jax.org

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### Related Strains

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All Related Strains