C57BL/6-Tg(Vav1–NUP98/HOXD13)G2ApLa/J

Stock No: 010505

Coisogenic, Transgenic

PLACE ORDER

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

These transgenic mice express the fusion gene consisting of the amino-terminal region of the human nucleoporin 98kDa (NUP98) fused to the homeodomain of the human homeobox D13 (HOXD13) under the control of the mouse vav1 oncogene (Vav1) regulatory elements. Hemizygotes develop myelodysplastic syndromes (hematopoietic stem cell disorder) with peripheral blood cytopenia and dysplasia and normocellular to hypercellular bone marrow. By 14 months of age a subset of hemizygotes succumbs to malignant leukemia or severe anemia and leukopenia. This mutant mouse strain may be useful in studies of myelodysplastic syndromes and leukemia.

Donating Investigator

Peter D Aplan, NIH/NCI

GENETIC OVERVIEW

<table>
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<tr>
<th>Genetic Background</th>
<th>Generation</th>
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Tg(Vav1-NUP98/HOXD13)G2Apla

Allele Type

Transgenic (Inserted expressed sequence, Humanized sequence)

RESEARCH APPLICATIONS

Cancer Research
Research Tools
Developmental Biology Research
Hematological Research

BASE PRICE

Starting at:

$2,595.00 Domestic price Cryo Recovery

Details
Detailed Description

These transgenic mice express the fusion gene consisting of the amino-terminal region of the human nucleoporin 98kDa (NUP98) fused to the homeodomain of the human homeobox D13 (HOXD13) under the control of the mouse vav1 oncogene (Vav1) regulatory elements. The transgene is expressed specifically in hematopoietic tissues and is detected in thymus, spleen, and bone marrow and not in brain, liver, and kidney by Northern blot analysis of total RNA. The fusion gene product (protein) is detected in thymocytes from transgenic mice by Western blot analysis. Hemizygous transgenic mice develop myelodysplastic syndromes (hematopoietic stem cell disorder) with peripheral blood cytopenia and dysplasia and normocellular to hypercellular bone marrow. By 7 months of age, hemizygotes exhibit leukopenia and anemia. By 14 months of age a subset of hemizygotes succumbs to malignant leukemia or severe anemia and leucopenia. This mutant mouse strain may be useful in studies of myelodysplastic syndromes, precursor T cell lymphoblastic leukemia/lymphoma (pre-T LBL) and acute myeloid leukemia.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Vav1-NUP98/HOXD13)G2Apla

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR: Tg(Vav1-NUP98/HOXD13)G2Apla STD PCR
Probe: Tg(Vav1-NUP98/HOXD13)G2Apla Probe-Alternate 1
Genotyping resources and troubleshooting
Breeding Considerations
When maintaining a live colony, these mice can be bred as hemizygotes. Hemizygotes develop myelodysplastic syndromes (hematopoietic stem cell disorder) and by 14 months of age a subset succumbs to malignant leukemia.

Additional Breeding and Husbandry Support

Citation
If you use JAX stock numbers, Tg(Vav1-NUP98/HOXD13)G2Apla/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #010905 in your Materials and Methods section.

Facility Barrier Level Descriptions
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

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

### Domestic Pricing

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or non-carrier for Tg(Vav1-NUP98/HOXD13)G2Apla</td>
<td>$2,595.00</td>
</tr>
</tbody>
</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.

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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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