FVB-Tg(Pbsn-Ar*E231G)7353Ng/J

Stock No: 008878

Coisogenic, Transgenic

CRYO RECOVERY

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 a mutant mouse androgen receptor (Ar), E231G, under the control of the rat probasin (Pbsn) promoter. Hemizygous transgenic male mice develop epithelial hyperplasia and dysplasia in the ventral prostate lobes, that progresses (by approximately 50 weeks of age) to primary prostate tumors with associated lymphocytic invasion and metastatic deposits in lungs.
This mutant mouse strain may be useful in studies of prostate tumorigenesis.

Donating Investigator
Dr. Norman M. Greenberg, Pfizer Global Research and Development

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td><strong>Tg(Pbsn-Ar*E231G)7353Ng</strong></td>
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**Allele Type**
- Transgenic (Inserted expressed sequence)

**RESEARCH APPLICATIONS**
- Internal/Organ Research
- Cancer Research

**BASE PRICE**
Starting at:
- $2,854.50 Domestic price
- Cryo Recovery

**Details**

**Detailed Description**

These transgenic mice express a mutant mouse androgen receptor (Ar), E231G, under the control of the minimal -426/+28 rat probasin promoter. The E231G mutant androgen receptor has an N-terminal domain mutation that increases ligand-independent basal activity and responsiveness to coactivators.

The transgene expression is detected specifically in the epithelial compartment of the ventral prostate by RT-PCR analysis; the majority of expression is detected in the ventral prostate, with lower expression in the dorsolateral prostate. At 12 weeks of age, hemizygous transgenic male mice develop epithelial hyperplasia and dysplasia in the ventral prostate lobes, that progresses (by approximately 50 weeks of age) to primary prostate tumors with associated lymphocytic invasion and metastatic deposits in lungs. Histological analysis reveals lesions consistent with mouse prostatic intraepithelial neoplasia (PIN). Female mice that are
homozygous for the transgene are viable, normal in size and do not display any gross physical or behavioral abnormalities. This mutant mouse strain may be useful in studies of prostate tumorigenesis and metastasis.

Genotyping Protocols
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice can be bred as homozygous females to hemizygous males. The Donating Investigator did not routinely breed to homozygosity and maintained the strain as a hemizygote.

Additional Breeding and Husbandry Support

Citation
When using the FVB-Tg(Pbsn-Ar*2E231G)7353Ng/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #008678 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 - Domestic Pricing

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<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or Non carrier for Tg(Pbsn-Ar*E231G)7353Ng</td>
<td>$2,854.50</td>
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</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.

Related Products and Services

| Frozen Mouse Embryo | $2,595.00 per straw or vial |

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.

Terms Of Use

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