B6.Cg-Pds5b Tg(Wap-ERBB3)229Kzw/J

Stock No: 010562

Congenic, 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

This transgenic line expresses the human ERBB2 (HER2) gene in mammary gland and brain, displays tolerance to ERBB2 antigen and may be useful in testing ERBB2-based vaccines and immunotherapies.

Donating Investigator

Wei-Zen Wei, Wayne State University

GENETIC OVERVIEW

<table>
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<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>Pds5bTg(Wap-ERBB2)229Wzw</td>
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Allele Type

Transgenic (Null/Knockout, Inserted expressed sequence, Humanized sequence)

RESEARCH APPLICATIONS

Research Tools
Immunology, Inflammation and Autoimmunity Research
Developmental Biology Research
Cancer Research

BASE PRICE

Starting at:

$2,595.00 Domestic price Cryo Recovery

Details

Detailed Description

Mice that are hemizygous for the transgene are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. These transgenic mice express human ERBB2 (HER2) under the control of the mouse whey acid protein promoter (Wap). The Wap promoter directs expression to the mammary gland and molecular layer of the cerebellum. Mice do not develop
spontaneous tumors, but are tolerant to ERBB2 tumor associated antigen, developing tumors after inoculation with ERBB2 expressing tumor cells. Anti-tumor immunity can be induced using aggressive DNA vaccination. This mutant mouse strain may be useful in testing ERBB2-based vaccines and immunotherapies.

Sequencing has identified the transgene integration site as intron 2 of the Pds5b gene (PDS5 cohesin associated factor B) on chromosome 5. The 162 copy (approx 1.1 Mb) integration disrupts Pds5b rendering it a null allele. Embryos homozygous for the mutation are severely underdeveloped with jaundice and disruptions to limb and facial formation by E14-15, no embryos survive to birth.

Genotyping Protocols
Standard PCR: Tg(Wap-ERBB2)229Wzw STD PCR
Genotyping resources and troubleshooting

Breeding Considerations
While maintaining a live colony, these mice are bred as hemizygotes. Homozygotes are embryonic lethal.
Additional Breeding and Husbandry Support

Citation
When using the B6.Cg-Pds5bTg(Wap-ERBB2)229Wzw/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #010562 in your Materials and Methods section.
Pricing & Availability

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

### Pricing Effective for USA, Canada and Mexico Shipping Destinations

<table>
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<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(Wap-ERBB2)229Wzw</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.

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 | $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

Terms of Use
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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains

FVB/N-Tg(MMTVneu)202Mul/J
Stock No: 002376
Related By: E-bb2

FVB-Tg(MMTV-Erbb2)NK1Mul/J
Stock No: 005038 | MMTVc-neu
Related By: E-bb2

B6.Cg-Tg(Wap-cre)11738Mam/JKnwJ
Stock No: 008735
Related By: Wap

ELLSWORTH FACILITY OFFICIALLY OPEN AND OPERATIONAL
Shipments have begun at our new facility, allowing increased access to JAX mouse models.