FVB-Tg(MMTV-ErbB2)NK1Mul/J

Stock No: 005038 | MMTV/c-neu

- Coisogenic, Transgenic

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.

Overview

Also Known As: MMTV/c-neu

MMTV/c-neu transgenic mice express an activated rat c-neu oncogene (ErbB2) under the direction of the the mouse mammary tumor virus (MMTV) long terminal repeat (LTR) promoter. These mice may be useful in studying breast cancer.

Donating Investigator

Dr. Philip Leder, Harvard Medical School

READ MORE »
GENETIC OVERVIEW

Genetic Background  Generation
F7×N2F13  (2018-04-16 00:00:00)

Tg(MMTV-Erbb2)NK1Mul

Allele Type
Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

$255.00 Domestic price for female

VIEW PRICE LIST

Details

Detailed Description

These transgenic mice express the activated rat c-neu oncogene (Erbb2) under the control of the mouse mammary tumor virus (MMTV) long terminal repeat (LTR) promoter. The activated, or transforming, version of the rat c-neu oncogene has a valine to glutamic acid substitution at acid 664 (Val<sup>664</sup> to Glu<sup>664</sup>). Non-uniform and random transgene expression is detected by RNase protection assay in mammary gland epithelium from hemizygous mice. Tumor formation is multifocal, stochastic and matches the expression pattern of the transgene. While no transgene expression is detected at 5 and 8 weeks of age in normal mammary gland tissue, it is detected in adenocarcinomas from older (23 week old) mice. The donating investigator indicates that 50% of transgenic mice derived from the TG.NK founder line, develop tumors within 6-12 months of age. Mice that are homozygous for the targeted mutation are viable, fertile and normal in size.

Development

Expression Data

Control Suggestions

Selected References
Genotyping Protocols
Standard PCR: Tg(MMTV-Erbb2)NK1Mul
QPCR: Tg(MMTV-Erbb2)NK1Mul
Genotyping resources and troubleshooting

Dietary Information
Lab Diet® 5K52 formulation (6% fat)

Breeding Considerations
The resulting transgenic mice were bred to homozygosity, and the genotypes confirmed by quantitative PCR.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using the MMTV/e-neu mouse strain in a publication, please cite the originating article(s) and include JAX stock #005038 in your Materials and Methods section.

Animal Health Reports
- Facility Barrier Level Descriptions
  - AX11 (Maximum)

Pricing & Availability
Live mice available in varying quantities. Ask Customer Service for details.
Pricing effective for USA, Canada and Mexico shipping destinations

### Live Mouse

<table>
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<tr>
<th>AGE</th>
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<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Tg(MMTV-Erb2)/NK1Mul</td>
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<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Tg(MMTV-Erb2)/NK1Mul</td>
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### Related Products and Services

- Frozen Mouse Embryo: $2,595.00 per straw or vial

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**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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**Terms of Use**

General Terms and Conditions

**Additional Use Restrictions Apply**

Notice to customers in Canada.

**Licensing Information**

Phone: 207-288-6470

Email: TechTran@jax.org

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Related Strains

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All Related Strains