This RIII substrain shows a pattern of virus expression and tumor incidence similar to the original RIII strain.

GENETIC OVERVIEW
Genetic Background Generation

RESEARCH APPLICATIONS
Cancer Research

BASE PRICE
Starting at:
$2,854.50 Domestic price Cryo Recovery
The original RIII strain was known for its high incidence of hormone-dependent mammary tumors transmissible by milk-born MMTV. The RIII/ImrNhsJ substrain is reported to show a pattern of virus expression and tumor incidence similar to the RIII strain (Sarkar, et al. 2004). RIII/ImrNhsJ mice carry the following endogenous MMTV loci: Mtv-6, 8, 14, 17 and possibly 21 (Popken-Harris, et al. 2001). Exogenous MMTV infection leads to the deletion of CD4+ Vbeta-2 and Vbeta-8 peripheral and central T cells (Uz-Zaman, et al. 2003). It is possible to modulate mammary tumor incidence using high and low calorie diets (Li, et al. 1994). RIII/ImrNhsJ mice infected with exogenous MMTV may be useful for studies of human breast cancer activated by insertional mutagenesis.

NOTE: Mice distributed by The Jackson Laboratory are not infected with MMTV. Regrettably, we do not have a source for the virus.
Genotyping Protocols
Genotyping resources and troubleshooting

Breeding Considerations

To maintain viral infectivity and high viral titer, the donating investigator recommends maintaining the strain by sibling matings of the third gestation or higher. Virgin mice fed a standard diet develop tumors at an incidence of 60-70% by 10-12 months, breeding mice develop tumors at an incidence of 90-100% (Li, et al 1994). Virgin mice on a high calorie (16 kcal/day) low fat (5% corn oil) diet have an increased tumor incidence of 73% (Li, et al 1994).

Additional Breeding and Husbandry Support

Appearance
albino
Related Genotype: A/A Tyr^c / Tyr^c

Citation
When using the RIII/ImrNhsJ mouse strain in a publication, please include JAX stock #005221 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
Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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<tr>
<td>Cryo Recovery</td>
<td>Homozygous, 1 pair minimum</td>
<td>$2,854.50</td>
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RELATED PRODUCTS AND SERVICES

| Frozen Mouse Embryo | RIII/ImrNhsJ Frozen Embryos | $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.

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. We do not guarantee breeding performance and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

Terms Of Use

TERMS OF USE
General Terms and Conditions

LICENSING INFORMATION
Phone: 207-288-6470
Email: TechTran@jax.org

Related Strains

All
By Allele
By Gene
By Collection