This inbred strain is characterized by high incidence of cancer, spontaneous glomerular hyalinization, and glomerulosclerosis.

**RESEARCH APPLICATIONS**

Cancer Research  
Research Tools  
Sensorineural Research  
Neurobiology Research  
Metabolism Research  
Immunology, Inflammation and Autoimmunity Research

**BASE PRICE**

Starting at:  
$2,854.50 Domestic price Cryo Recovery
Derived from an unknown stock at the Rockefeller Institute, RF/J are commonly used in research in genetics, immunology, oncology and virology. This strain displays a high cancer incidence including leukemia (reportedly between 40 and 66%) and reticulum cell sarcomas (approximately 50%). Consistent with this, sequence comparisons of inbred strains found that the missense mutations that are specific to RF/J are over-represented in the KEGG pathways of “Pathways in Cancer” and “Extracellular Matrix-Receptor Interaction” and the REACTOME pathways of “Degradation of the Extracellular Matrix” and “Extracellular Matrix Organization” (Doran et al., 2016). This strain also has a high incidence of spontaneous glomerular hyalinisation and glomerulosclerosis, which develops between eight and twenty months of age.

Genetics

- \( Il3ra^{m1} \)
- \( Rmc^{s} \)
- \( Hc^{0} \)
- \( Cdh23^{ahl} \)
- \( Mx1^{s1} \)
- \( Ahr^{d} \)
- \( Cox7a2^{l} \)

Disease/Phenotype

- Disease Terms
- Research Areas By Phenotype
- Mammalian Phenotype Terms by Genotype
Genotyping Protocols

Genotyping resources and troubleshooting

Appearance
albino
Related Genotype: a/a Tyr c /Tyr c

Citation
When using the RF/J mouse strain in a publication, please include JAX stock #000682 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.

<table>
<thead>
<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Inbred, 1 pair minimum will be supplied</td>
<td>$2,854.50</td>
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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.

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

General Terms and Conditions

Licensing Information

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

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