These mice carry a spontaneous remutation at the Kit locus characterized by relatively better homozygote viability than the Kit<sup>W<sup>39</sup></sup> mutation, a classic 'black-eyed-white' phenotype, and mild, normochromic, macrocytic anemia in heterozygotes.
**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Kit**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Kit</td>
<td>KIT proto-oncogene receptor tyrosine kinase</td>
</tr>
</tbody>
</table>

**RESEARCH APPLICATIONS**

Cancer Research  
Dermatology Research  
Developmental Biology Research  
Endocrine Deficiency Research  
Reproductive Biology Research  
Mouse/Human Gene Homologs  
Research Tools  
Immunology, Inflammation and Autoimmunity Research

**BASE PRICE**

Starting at: $2,854.50 Domestic price  
Cryo Recovery

**Details**

**Detailed Description**

Mutations at the Kit locus affect various aspects of hematopoiesis, the proliferation and migration of primordial germ cells and melanoblasts during development. The original Kit\(^W\) mutation is lethal when homozygous. Kit\(^W39J\) homozygotes are somewhat more viable and fertile than Kit\(^W\) mice whose homozygotes survive significantly longer than Kit\(^W\) homozygotes. The Kit\(^W39J\) allele resembles Kit\(^W\) in blood formation, producing a mild, normochromic, macrocytic anemia in the heterozygote. Homozygous and heterozygous Kit\(^W39J\) animals are black-eyed-white as are heterozygotes between Kit\(^W39J\) and most other Kit\(^W\) mutants.

**Development**

**Genetics**

**Kit**\(^W39J\)
Genotyping Protocols
Genotyping resources and troubleshooting

Citation
When using the dominant spotting 39 Jackson mouse strain in a publication, please cite the originating article(s) and include JAX stock #000062 in your Materials and Methods section.

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability
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>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or Wild-type for Kit&lt;W-39J&gt;</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>

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.
The foregoing represents the General Terms and Conditions applicable to JACKSON's MICE, PRODUCTS or SERVICES. In addition, special terms and conditions of sale of certain MICE, PRODUCTS, or SERVICES may be set forth separately in JACKSON web pages, catalogs, price lists, contracts, and/or other documents, and these special terms and conditions shall also govern the sale of these MICE, PRODUCTS and SERVICES by JACKSON, and by its licensees and distributors. Acceptance of delivery of MICE, PRODUCTS or SERVICES shall be deemed agreement to these terms and conditions. No purchase order or other document transmitted by purchaser or recipient that may modify the terms and conditions hereof, shall be in any way binding on JACKSON, and instead the terms and conditions set forth herein, including any special terms and conditions set forth separately, shall govern the sale of MICE, PRODUCTS or SERVICES by JACKSON.