This WASP deficient mutant mouse strain on the congenic C57BL/6 background is mildly immunodeficient, exhibiting thrombocytopenia, lymphocytopenia, and defective secondary T-cell response to influenza virus. These mice may be useful in studies of autoimmunity and Wiskott-Aldrich syndrome.

Donating Investigator
Ted S. Strom, Memphis VAMC

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.
Wiskott-Aldrich syndrome, an X-linked recessive immunodeficiency, is caused by mutation of the WAS gene that result in defective actin polymerization. These mice carry a knockout of the Was (Wiskott-Aldrich syndrome) gene in which a NEO cassette disrupts exon 7. Female mice that are homozygous for this allele and male mice that are hemizygous for this X linked allele are viable and fertile. No gene product (mRNA or protein) is detected by Northern blot analysis of B cell and T cells from homozygotes or Western blot analysis of thymocytes, B cell and T cells from homozygotes. Mice carrying the Was<sup>tm1Sbs</sup> targeted mutation on a congenic C57BL/6J background are mildly immunodeficient, exhibiting thrombocytopenia, lymphocytopenia, and defective secondary T-cell response to influenza virus. Hemizygous males on the congenic C57BL/6J background do not develop the colitis phenotype observed in mutant mice on the 129 background. These mutant mice exhibit reduced platelet count, increased susceptibility to Streptococcus pneumoniae infection, and delayed clearance of Mycobacterium bovis. With age, these mutant mice produce autoantibodies and glomerulonephritis. During backcrossing, the Y chromosome may not have been fixed to the C57BL/6J genetic background.
Technical Support

Genotyping Protocols
Standard PCR: **Was**
Separated PCR: **Was**
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice can be bred as female homozygotes and male hemizygotes. The gene is X-linked.

Additional Breeding and Husbandry Support

Citation
When using the wasp- mouse strain in a publication, please cite the originating article(s) and include JAX stock #019458 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>X linked - Heterozygous females ro Wildtype males for Was&lt;tm1Sbs&gt;</td>
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Related Products and Services

Frozen Mouse Embryo  B6.129S6-Was<tm1Sbs>/J  $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.

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Terms Of Use

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Related Strains

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