These mutant mice possess an engineered duplication of a region of mouse Chromosome 7 that shares conserved synteny with the Autism spectrum disorders interval on human Chromosome 16. They may be useful in studying Autism and other associated disorders.

Donating Investigator
Dr. Alea A. Mills, Cold Spring Harbor Laboratory

GENETIC OVERVIEW

**Dp(7Slx1b-Sept1)5Aam**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Not Applicable)</td>
<td>Dp(7Slx1b-Sept1)5Aam</td>
<td>duplication, Chr 7, Alea A Mills 5</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

Neurobiology Research
Mouse/Human Gene Homologs
These mutant mice possess an engineered duplication of approximately 0.39 Mb of mouse Chromosome 7. The region involved encompasses a chromosomal segment, between the GIY-YIG domain containing 2 (Giyd2) gene and the septin 1 (Sept1) loci, that shares conserved synteny with Autism spectrum disorders (ASD) critical interval on human Chromosome 16, specifically the 16p11.2 region. Homozygous mutant mice are viable and fertile. These mice exhibit neuroanatomical and behavioral phenotypes. This mutant mouse may be useful in studying Autism and other associated disorders.

(Mice bearing the reciprocal deficiency mutation are also available (see Stock No. 013128))

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. This is the case for the strain above. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.
Technical Support

Genotyping Protocols
Separated PCR: Dp(7S1x1b-Sept1)5Aam
Genotyping resources and troubleshooting

Breeding Considerations
Hemizygous mice were backcrossed to C57BL/6J inbred mice using a marker-assisted, speed congenic approach for many generations to establish this congenic strain. When maintaining the live congenic colony, hemizygous mice may be bred together, to wildtype (non-duplication) mice from the colony, or to C57BL/6J inbred mice.

Additional Breeding and Husbandry Support

Citation
When using the B6.127S7-Dp(7S1x1b-Sept1)5Aam/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #016915 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

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>
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</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or wildtype for Dp(7S1x1b-Sept1)5Aam</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>

Pricing effective for USA, Canada and Mexico shipping destinations
## RELATED PRODUCTS AND SERVICES

| Frozen Mouse Embryo | B6.127S7-Dp(7Slx1b-Sept1)5Aam/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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## ADDITIONAL USE RESTRICTIONS APPLY

Use of MICE by companies or for-profit entities requires a license.

## LICENSING INFORMATION

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

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Related Strains

All
By Allele
By Gene
By Collection

All Related Strains