This spontaneous mutation in Wnt7a provides a model for Fuhrmann syndrome, with malformed, shortened forelimbs, missing digits, and sterility.
### Genetic Overview

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Spontaneous</td>
<td>Wnt7a</td>
<td>wingless-type MMTV integration site family, member 7A</td>
</tr>
</tbody>
</table>

### Research Applications

- Developmental Biology Research
- Internal/Organ Research
- Mouse/Human Gene Homologs

### BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

### Detailed Description

Mice homozygous for the postaxial hemimelia Jackson mutation have malformed, shortened forelimbs and missing or shortened digits of the front feet. A few have missing digits from the hind feet. Both males and females are sterile although ovaries from homozygotes can be successfully used in ovarian transplantation for breeding and sperm from homozygotes can be used successfully for *in vitro* fertilization, although it appears to have reduced motility.

### Genetics
Genotyping Protocols
Separated PCR: Wnt7a
Genotyping resources and troubleshooting

Breeding Considerations
Hosts of homozygous ovarian transplants are bred to C57BL/6J males or unaffected male siblings of the donor and the resulting obligate heterozygotes are intercrossed to generate homozygotes.

Additional Breeding and Husbandry Support

Citation
When using the C57BL/6J-Wnt7apx-J/GsrJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #016098 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.

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<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Wnt7apx-J</td>
<td>$2,854.50</td>
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</tbody>
</table>

Domestic
Pricing effective for USA, Canada and Mexico shipping destinations
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.
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Related Strains

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<tr>
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<tr>
<td>By Allele</td>
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<tr>
<td>By Gene</td>
</tr>
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<td>By Collection</td>
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All Related Strains