**Overview**

**Also Known As:** Foxp3\textsuperscript{K276X} C57BL/6

These Foxp3\textsuperscript{K276X} (forkhead box P3) mutant mice exhibit multisystem lymphoproliferative and myeloproliferative disease, and have applications in studies of T regulatory (Treg) cell function and allergic inflammation.

**Donating Investigator**

Talal Chatila, Boston Children's Hospital
GENETIC OVERVIEW

**Gene Symbol**: Foxp3

**Gene Name**: forkhead box P3

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<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Generation</th>
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<tr>
<td>Targeted (Null/ Knockout)</td>
<td>Foxp3</td>
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RESEARCH APPLICATIONS

Hematological Research
Research Tools
Virology Research
Immunology, Inflammation and Autoimmunity Research
Internal/Organ Research
Developmental Biology Research

BASE PRICE

Starting at: $2,595.00 Domestic price Cryo Recovery

Details

**Detailed Description**

The transcriptional regulator FOXP3 is in the forkhead/winged-helix family and has an important role in T regulatory cells (Tregs) development and function. These mice carry a targeted mutation of the Foxp3 gene that contains the K276X nonsense mutation (A to T substitution in the first base position of codon 276) in exon 8, which creates a stop codon. Female mice that are heterozygous for the mutation are viable and fertile. Male mice carrying this X-linked mutation die within a few weeks after birth, due to aggressive lymphoproliferative and myeloproliferative disease. A significant decrease (>10-fold) in gene product (mRNA) and complete loss of protein is detected by Real-time PCR and FACS analysis of mutant splenocytes. No Foxp3+CD4+CD25+ Treg cells are detected. Mutant male mice exhibit spontaneous allergic airway inflammation, progressive lymphoproliferation and myeloproliferation and blood eosinophilia. Mutant mice exhibit impaired immune response to vaccinia virus challenge, failing to produce virus specific T cells and exhibiting higher viral loads. Male hemizygotes on a congenic C57BL/6 background live longer (up to 60 days) than male hemizygotes on a BALB/c background (up to 23 days).
Genotyping Protocols
Standard PCR: Foxp3^{tm1Tch}
High Resolution Melting: Foxp3^{tm1Tch}
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, female mice can be bred as heterozygotes. Male mice carrying this X-linked mutation die within a few weeks after birth, due to aggressive lymphoproliferative and myeloproliferative disease.
Additional Breeding and Husbandry Support
Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

### Domestic International

**Pricing effective for USA, Canada and Mexico shipping destinations**

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<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
<td>Cryo Recovery</td>
<td>X linked - females Heterozygous for Foxp3&lt;tm1Tch&gt; and males are wildtype</td>
<td>$2,595.00</td>
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</tbody>
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We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. **Please check genotypes which will be recovered.** While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. **Animals are typically ready to ship in 11-14 weeks.** If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a **Dedicated Supply** for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

### Related Products and Services

| Frozen Mouse Embryo | $2,595.00 per straw or vial |

### 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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**Terms of Use**

**General Terms and Conditions**

Additional Use Restrictions Apply

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Licensing Information
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- By Allele
Leading the search for
TOMORROW'S CURES

ELLSWORTH FACILITY OFFICIALLY OPEN AND OPERATIONAL
Shipment have begun at our new facility, allowing increased access to JAX mouse models.

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