**STOCK Pitx3<sup>ak</sup>/2J**

Stock No: 000942 | aphakia

- Spontaneous Mutation

**CRYO RECOVERY**

**PLACE ORDER**

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

**Also Known As: aphakia**

These mice carry a spontaneous deletion at the Pitx3 locus characterized by microphthalmia and aphakia.

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>Pitx3&lt;sup&gt;ak&lt;/sup&gt;</td>
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<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>Pitx3</td>
<td>paired-like homeodomain transcription factor 3</td>
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</table>

**RESEARCH APPLICATIONS**

Neurobiology Research
Sensorineural Research

**BASE PRICE**

Starting at:

$2,595.00 Domestic price Cryo Recovery

**VIEW GENETICS**

**VIEW ALL RESEARCH APPLICATIONS**

**VIEW PRICE LIST**
Mice homozygous for the Pitx3<sup>tk</sup> mutation exhibit microphthalmia (small eyes) and aphakia (no lens) related to arrested lens development. The mesencephalic dopamine system is malformed and as a result homozygotes fail to develop dopaminergic neurons of the substantia nigra (Smidt et al., 2004). Homozygotes display sensorimotor deficits specific to the nigrostriatal pathway such as the challenge beam and pole test and the test for spontaneous exploratory activity in a cylinder. These deficits can be reversed by L-DOPA administration (Hwang et al., 2005). This mutant mouse strain may be useful in studies of Parkinson's disease.

**Genetics**

- **Pitx3<sup>tk</sup>**

**Disease/Phenotype**

**Disease Terms**

**Research Areas By Genotype**

**Mammalian Phenotype Terms by Genotype**

**References**

**Technical Support**

CONTACT TECHNICAL SUPPORT

**Genotyping Protocols**

Genotyping resources and troubleshooting

**Citation**

When using this esbaki mouse strain in a publication, please cite the originating article(s) and include JAX stock #000942 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>Domestic</th>
<th>International</th>
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<tbody>
<tr>
<td>Pricing effective for USA, Canada and Mexico shipping destinations</td>
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</table>

Cryorecovery - Domestic Pricing

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Ptx3&lt;ak&gt;</td>
<td>$2,595.00</td>
</tr>
</tbody>
</table>

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.

Payment Terms and Conditions

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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

Licensing Information

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

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**Related Strains**

- **All**
- **By Allele**
- **By Gene**