This model of X-linked dominant hypophosphatemic rickets has degeneration of the organ of Corti and associated hearing loss.
Hypophosphatemia (Phex$^{Hyp}$) is an X-linked semidominant mutation that causes defects in phosphate metabolism. It is allelic with the gyro mutation (Phex$^{Gy}$) but hypophosphatemia mutant mice do not circle. Hemizygous males and heterozygous females can be recognized at 20 to 30 days of age by their shortened hindlimbs and tail. They have reduced body size which persists throughout life, and skeletal changes resembling rickets. Hemizygous males are more affected than heterozygous females. Viability is normal in both sexes, but heterozygous females show better fertility than hemizygous males.
Genotyping Protocols
Separated PCR: Phex
Probe: Phex Probe Alternate1

Genotyping resources and troubleshooting

Appearance
black, reduced body size with shortened hindlimbs and tail
Related Genotype: a/a Phex<sup>Hyp</sup>+/+

black, unaffected
Related Genotype: a/a +/+?

Citation
When using the hypophosphatemia mouse strain in a publication, please cite the originating article(s) and include JAX stock #000528 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.

Cryo Recovery

<table>
<thead>
<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>X linked - Heterozygous Females and Wildtype Males for Phex&lt;sup&gt;Hyp&lt;/sup&gt;</td>
<td>$2,854.50</td>
</tr>
</tbody>
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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

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