B6.Cg-Phex<sup>Hyp</sup>/J

Stock No: 000528 | hypophosphatemia

- Congenic. Spontaneous Mutation

AVAILABLE FOR REGISTERING INTEREST

REGISTER INTEREST

Please contact Technical Support for more information

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**Overview**

**Also Known As:** hypophosphatemia

This strain is currently unavailable due to replenishing of cryopreserved stocks.

This model of X-linked dominant hypophosphatemic rickets has degeneration of the organ of Corti and associated hearing loss.

READ MORE +

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**GENETIC OVERVIEW**

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<th>Genetic Background</th>
<th>Generation</th>
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<td>Phex&lt;sup&gt;Hyp&lt;/sup&gt;</td>
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**Allele Type** | **Gene Symbol** | **Gene Name**
---|---|---
Spontaneous (Not Specified) | Phex | phosphate regulating endopeptidase homolog, X-linked

VIEW GENETICS
**RESEARCH APPLICATIONS**
Endocrine Deficiency Research  
Internal/Organ Research  
Mouse/Human Gene Homologs  
Developmental Biology Research  
Sensorineural Research

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**Details**

**Detailed Description**

Hypophosphatemia (Phex\textsuperscript{Hyp}) is an X-linked semidominant mutation that causes defects in phosphate metabolism. It is allelic with the gyro mutation (Phex\textsuperscript{Gyro}) 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.

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**Development**

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**Control Suggestions**

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**Genetics**

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**Phex\textsuperscript{Hyp}**

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**Disease/Phenotype**

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**Disease Terms**

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**Research Areas By Genotype**

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**Mammalian Phenotype Terms by Genotype**

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**References**

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**Technical Support**

CHAT OFFLINE 📩

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CONTACT TECHNICAL SUPPORT
Genotyping Protocols
Separated PCR: Phex<sup>Hyp</sup>
Probe: Phex<sup>Hyp</sup> 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.

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Number of Mice
Frequency
Product
Comment

Frequency...

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains

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