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

Stock No: 000528 | hypophosphatemia

- Congenic, Spontaneous Mutation

**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.

**GENETIC OVERVIEW**

<table>
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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**: Spontaneous (Not Specified)
- **Gene Symbol**: Phex
- **Gene Name**: phosphate regulating endopeptidase homolog, X-linked
RESEARCH APPLICATIONS
Endocrine Deficiency Research
Internal/Organ Research
Mouse/Human Gene Homologs
Developmental Biology Research
Sensorineural Research

VIEW ALL RESEARCH APPLICATIONS

Details

Detailed Description
Hypophosphatemia (Phex<sup>Hy</sup>) is an X-linked semidominant mutation that causes defects in phosphate metabolism. It is allelic with the gyro mutation (Phex<sup>Gy</sup>) 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.

Development

Control Suggestions

Genetics

Phex<sup>Hy</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

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.

STRAIN INTEREST REGISTRATION

Please fill out the form below to indicate your interest in purchasing this JAX<sup>®</sup>Mice strain. This information helps us manage the colony build and better meet the broad needs of the research community. Please send any technical questions to Technical Support.

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains