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

Stock No: 000528 | hypophosphatemia

- Congenic Spontaneous Mutation

AVAILABLE FOR REGISTERING INTEREST

Please contact Customer Service for more information

Also Known As: C57BL/6J-Phex<sup>Hyp</sup>/J, 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 +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>Phex&lt;sup&gt;Hyp&lt;/sup&gt;</td>
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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tr>
<td>Spontaneous</td>
<td>Phex</td>
<td>phosphate regulating endopeptidase homolog, X-linked</td>
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VIEW GENETICS

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>Hyp</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>Hyp</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.
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