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

Stock No: 000528 | hypophosphatemia

Available for registering interest

Register Interest
Please contact Customer Service for more information

Overview

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>
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<th>Genetic Background</th>
<th>Generation</th>
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Phex<sup>Hyp</sup>

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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

Details

Detailed Description
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.

Development

Control Suggestions

Genetics

Phex^{Hyp}

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT
Genotyping Protocols

Separated PCR: Phex$^{hyp}$
Probe: Phex$^{hyp}$ Probe Alternate1

Genotyping resources and troubleshooting

Appearance
black, reduced body size with shortened hindlimbs and tail
Related Genotype: a/a Phex$^{hyp}$/+
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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