

## Product datasheet for **SC337223**

### **PHEX (NM\_001282754) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PHEX (NM_001282754) Human Untagged Clone
Tag:	Tag Free
Symbol:	PHEX
Synonyms:	HPDR; HPDR1; HYP; HYP1; LXHR; PEX; XLH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001282754, the custom clone sequence may differ by one or more nucleotides

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ATGGAAGCAGAAACAGGGAGCAGCGTGGAGACTGGAAAGAAGGCCAACAGAGGCACTCGAATTGCCCTGG
TCGTGTTTGTGCGGTGGCACCCCTAGTTCTGGGCACGATCCTCTTTCTAGTGAGTCAAGGTCTCTTAAGTCT
CCAAGCTAAACAGGAGTACTGCCTGAAGCCAGAATGCATCGAAGCGGCTGCTGCCATCTTAAGTAAAGTA
AATCTGTCTGTGGATCCTTGTGATAATTTCTCCGGTTCGCTTGTGATGGCTGGATAAGCAATAATCCAA
TTCCCGAAGATATGCCAAGCTATGGGGTTTATCCTTGGCTGAGACATAATGTTGACCTCAAGTTGAAGGA
ACTTTTGGAGAAATCAATCAGTAGAAGGCGGGACACCGAAGCCATACAGAAAGCCAAAATCCTTTATTCA
TCCTGCATGAATGAGAAAGCGATTGAAAAGCAGATGCCAAGCCACTGCTACACATCCTACGGCATTAC
CTTTCCGCTGGCCCGTGTGAATCTAATATTGGCCCTGAAGGGGTTTGGTCAGAGAGAAAGTTCAGCCT
TCTGCAGACACTTGCACGTTTCGTGGTCAATACAGCAATTCTGTGTTTCATCCGTTTGTATGTGCCCT
GATGACAAAGCATCCAATGAACATATCTTGAAGCTGGACCAAGCAACACTCTCCCTGGCCGTGAGGGAAG
ACTACCTTGATAACAGTACAGAAGCCAAGTCTTATCGGGATGCCCTTTACAAGTTCATGGTGACTGCTGC
CGTGCTTTTAGGAGCTAACAGTTCAGAGCAGAGCATGACATGAAGTCAGTGCTCAGATTGAAAATTAAG
ATAGCTGAGATAATGATTCCACATGAAAACCGAACCCAGCGAGGCCATGTACAACAAAATGAACATTTCTG
AACTGAGTGCTATGATCCCCAGTTCGACTGGCTGGGCTACATCAAGAAGGTCATTGACACCAGACTCTA
CCCCATCTGAAAGACATCAGCCCTCCGAGAATGTGGTGGTCCGCGTCCCGCAGTACTTTAAAGATTTG
TTTAGGATATTAGGCTGAGAGAAAGAAGACCATTGCCAACTATTTGGTGTGGAGAATGGTTTATTCCA
GAATCCAAACCTTAGCAGGCGCTTTCAGTATAGATGGCTGGAATCTCAAGGTAATCCAGGGGACCAC
AACTTTGCTGCCTCAATGGGACAAATGTGAACTTTATTGAAAGTGCCTCCCTTATGTTGTTGGAAAG
ATGTTTGTAGATGTACTTCCAGGAAGATAAGAAGGAAATGATGGAGGAATTGGTTGAGGGCCTTCGCT
GGGCCCTTTATTGACATGCTAGAGAAAGAAAATGAGTGGATGGATGCAGGAACGAAAAGGAAAGCCAAAGA
AAAGGCGAGAGCTGTTTTGGCAAAAGTTGGCTATCCAGAGTTTATAATGAATGATACTCATGTTAATGAA
GACCTCAAAGCTATCAAGTTTTCCAGAAGCCGACTACTTTGGCAACGTCCTACAAACTCGCAAGTATTTAG
CACAGTCTGATTTCTTGGCTAAGAAAAGCCGTTCCAAAAACAGAGTGGTTTACAAATCCGACGACTGT
CAATGCCTTCTACAGTGCATCCACCAACCAGATCCGATTTCCAGCAGGAGAGCTCCAGAAGCCTTTCTTT
TGGGGAACAGAATATCCTCGATCTCTGAGTTATGGTGCTATAGGAGTAATTGTCGGACATGAATTTACAC
ATGGATTTGATAATAATGGTAGAAAATATGATAAAAATGGAAACCTGGATCCTTGGTGGTCTACTGAATC
AGAAGAAAAGTTAAGGAAAAAACAATAATGCATGATTAACAGTATAGCAACTATTATTGGAAGAAAGCT
GGCTTAAATGTCAAGGGGAAGAGACCCTGGGAGAAAATATTGCTGATAATGGAGGCTCGCGGGAAGCTT
TTAGGGCTTACAGGAAATGGATAAATGACAGAAGGCAGGGACTTGAGGAGCCTTCTTACCAGGCATCAC
ATTCACCAACAACCAGCTCTTCTCCTGAGTTATGCTCATGGTCAATGGTGAATAG
    
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001282754

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001282754.1</a> , <a href="#">NP_001269683.1</a>
<b>RefSeq Size:</b>	6092 bp
<b>RefSeq ORF:</b>	2088 bp
<b>Locus ID:</b>	5251
<b>UniProt ID:</b>	<a href="#">P78562</a>
<b>Cytogenetics:</b>	Xp22.11
<b>Protein Families:</b>	Druggable Genome, Protease, Transmembrane
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a transmembrane endopeptidase that belongs to the type II integral membrane zinc-dependent endopeptidase family. The protein is thought to be involved in bone and dentin mineralization and renal phosphate reabsorption. Mutations in this gene cause X-linked hypophosphatemic rickets. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]</p> <p>Transcript Variant: This variant (2) lacks an alternate exon in the 3' coding region, which results in a frameshift and an early stop codon, compared to variant 1. The encoded isoform (2) has a shorter and distinct C-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>