

Product datasheet for **SC123993**

PHEX (NM_000444) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHEX (NM_000444) Human Untagged Clone
Tag:	Tag Free
Symbol:	PHEX
Synonyms:	HPDR; HPDR1; HYP; HYP1; LXHR; PEX; XLH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC123993 sequence for NM_000444 edited (data generated by NextGen Sequencing)

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ATGGAAGCAGAAACAGGGAGCAGCGTGGAGACTGGAAAGAAGGCCAACAGAGGCACTCGA
ATTGCCCTGGTCGTGTTTGTCCGGTGGCACCCCTAGTTCTGGGCACGATCCTCTTTCTAGTG
AGTCAAGTCTCTTAAGTCTCCAAGCTAAACAGGAGTACTGCCTGAAGCCAGAATGCATC
GAAGCGGCTGCTGCCATCTTAAGTAAAGTAAATCTGCTGTGGATCCTTGTGATAATTTCT
TTCCGGTTCGCTTGTGATGGCTGGATAAGCAATAATCCAATCCCGAAGATATGCCAAGC
TATGGGGTTTATCCTTGGCTGAGACATAATGTTGACCTCAAGTTGAAGGAACCTTTTGAG
AAATCAATCAGTAGAAGGCGGGACACCGAAGCCATACAGAAAGCCAAAATCCTTTATTCA
TCCTGCATGAATGAGAAAGCGATTGAAAAAGCAGATGCCAAGCCACTGCTACACATCCTA
CGGCATTACCTTTCCGCTGGCCCGTGTGAATCTAATATTGGCCCTGAAGGGGTTTGG
TCAGAGAGAAAGTTCAGCCTTCTGCAGACACTTGAACGTTTTCTGGTCAATACAGCAAT
TCTGTGTTTCATCCGTTTGTATGTGTCCCCTGATGACAAAGCATCCAATGAACATATCTTG
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GAAGCCAAGTCTTATCGGGATGCCCTTTACAAGTTCATGGTGGATACTGCCGTGCTTTTA
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ATAGCTGAGATAATGATTCCACATGAAAACCGAACCCAGCGAGGCCATGTACAACAAAATG
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ACCATTGCCAACTATTTGGTGTGGAGAATGGTTTATTCCAGAATCCAAACCTTAGCAGG
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CCTCAATGGGACAAATGTGTAACCTTTATTGAAAGTGCCCTCCCTTATGTTGTTGGAAAG
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TACAGTGCATCCACCAACCAGATCCGATTTCCAGCAGGAGAGCTCCAGAAGCCTTTCTTT
TGGGGAACAGAATATCCTCGATCTCTGAGTTATGGTGCTATAGGAGTAATTGTCGGACAT
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CCTTGGTGGTCTACTGAATCAGAAGAAAAGTTTAAAGGAAAAAACAAAATGCATGATTAAC
CAGTATAGCAACTATTATTGGAAGAAAGCTGGCTTAAATGTCAAGGGGAAGAGGACCCTG
GGAGAAAATATTGCTGATAATGGAGGCCTGCGGGAAGCTTTTAGGGCTTACAGGAAATGG
ATAAATGACAGAAGGCAGGGACTTGAGGAGCCTTCTACCAGGCATCACATTCACCAAC
AACCAGCTCTTCTCCTGAGTTATGCTCATGTGAGGTGCAATTCCTACAGACCAGAAGCT
GCCCGAGAACAAGTCAAATTTGGTGCTCACAGTCCCCCTCAGTTTAGGGTCAATGGTGCA
ATTAGTAACTTTGAAGAATTCAGAAAGCTTTTAACTGTCCACCCAATTCACAGATGAAC
AGAGGCATGGACTCCTGCCGACTCTGGTAG

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Clone variation with respect to NM_000444.4

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000444 unedited TACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGAGCCTTGGATGTCAACGCCT CGCTCTTGAGACCAGCCACCAAACACGAAAAGTGACTTTCTTCTCGTGTGCTCTCTACG GCCCTTCTGATGGAAGCAGAAACAGGGAGCAGCGTGGAGACTGGAAGAAGGCCAACAGA GGCACTCGAATTGCCCTGGTCGTGTTTGTCCGTGGCACCTAGTCTGGGCACGATCCTC TTTCTAGTGAAGTCAAGGTCTCTTAAGTCTCCAAGCTAAACAGGAGTACTGCCTGAAGCCA GAATGCATCGAAGCGGCTGTGCCATCTTAAGTAAAGTAAATCTGTCTGTGGATCCTTGT GATAATTTCTTCCGGTTCGCTTGTGATGGCTGGATAAGCAATAATCCAATTCCCGAAGAT ATGCCAAGCTATGGGGTTTATCCTTGGCTGAGACATAATGTTGACCTCAAGTTGAAGGAA CTTTTGGAGAAATCAATCAGTAGAAGGCGGGACACCGAAGCCATACAGAAAGCCAAAATC CTTATTATCCTGCATGAATGAGAAACGATTTGAAAAGCAGATGCCNAGCCACTGCTACA CAATCTACGGCATTACCTTTCCGCTTGCCCGTGTGGATCTTATATTGCCCTTGAAG GGTTTGTACAAAAGAAGTTCAGCTTCTGCANACCCTGAACGTTTCTGGTCAAACAGCAA TTCTGGGTTAAT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000444 unedited TCCAGGCCAGGAGAGGCACTGGGGAGGGGTCACAGGGATGCCACCCGGGATCTGTTCAAG AAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTAAAGA ATCACAAATCACAGGGACACACAATGGCTTCTGTGGTTAATCTGAATTTGTCATTTTGC TTTTGAGATTTTCTATTGGCCACTTAACCCAGCACCTCATGTCTAATGAATAATGTAA AGGGAGTAGGGGATGCCTATTTAAGAAACAAAAATGCCAGGTAACAACCTTAAAGGCC ATTACAATTTTATCCTACACACACACACACACACACACACACACACGCTCAGTAATAA GAAAGGAGTTCACCTTAGAAGGATAATGCTCTAAGGATAAAACACATAGTACTGCTTTTC TCACAACCTTTAGATGACTTGAAGAGTAAAAATTATGTTTATTTGGACTATGCAGGGAA TTTTAAATTGAATCAATAAATTCTAGAATGTCATCAGTCAAGAAATTTTCAAAAATGTT TTTTTTTTAAAGAGAGGTAACATTAAGCTGAAAAAGAAGGTACACTTCTCCCTCCTCAA TGTGATGTTTGTCTTTGCACTAAAGGGAAATGAAAATCATATGTTCTAATGGGGAAT CAGANAATTGTTTCTCAATGTCTGCTCATTTCAAAACAGTACAATGCACACATATGAA GGTAATGAAACGAACAAGAATTAN</p>
Restriction Sites:	Please inquire
ACCN:	NM_000444
Insert Size:	4000 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
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).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_000444.2 , NP_000435.2
RefSeq Size:	3130 bp
RefSeq ORF:	2250 bp
Locus ID:	5251
UniProt ID:	P78562
Cytogenetics:	Xp22.11
Protein Families:	Druggable Genome, Protease, Transmembrane
Gene Summary:	<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 (1) represents the longer transcript and encodes the longer 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>