

## Product datasheet for **RG211248**

### **PHEX (NM\_000444) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PHEX (NM_000444) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PHEX
Synonyms:	HPDR; HPDR1; HYP; HYP1; LXHR; PEX; XLH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG211248 representing NM\_000444  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGCAGAAACAGGGAGCAGCGTGGAGACTGGAAAGAAGGCCAACAGAGGCACTCGAATTGCCCTGG  
 TCGTGTGGTTCGGTGGCACCCCTAGTTCTGGGCACGATCCTCTTTCTAGTGAGTCAAGGTCTCTTAAGTCT  
 CCAAGCTAAACAGGAGTACTGCCTGAAGCCAGAATGCATCGAAGCGGCTGCTGCCATCTTAAGTAAAGTA  
 AATCTGTCTGTGGATCCTTGTGATAATTTCTCCGGTTCGCTTGTGATGGCTGGATAAGCAATAATCCAA  
 TTCCCAGAGATATGCCAAGCTATGGGGTTATCCTTGGCTGAGACATAATGTTGACCTCAAGTTGAAGGA  
 ACTTTTGGAGAAATCAATCAGTAGAAGGCGGGACACCGAAGCCATACAGAAAGCCAAAATCCTTTATTCA  
 TCCTGCATGAATGAGAAAGCGATTGAAAAGCAGATGCCAAGCCACTGCTACACATCCTACGGCATTAC  
 CTTTCCGCTGGCCCGTGTGAATCTAATATTGGCCCTGAAGGGTTTGGTCAGAGAGAAAGTTCAGCCT  
 TCTGCAGACACTTCAACGTTTCGTGGTCAATACAGCAATTCTGTGTTCCATCCGTTTGTATGTGCCCT  
 GATGACAAAGCATCCAATGAACATATCTTGAAGCTGGACCAAGCAACACTCTCCCTGGCCGTGAGGGGAA  
 ACTACCTTGATAACAGTACAGAAGCCAAGTCTTATCGGGATGCCCTTTACAAGTTCATGGTGGATACTGC  
 CGTGCTTTTAGGAGCTAACAGTTCAGAGCAGAGCATGACATGAAGTCAAGTCAAGTTCAGATTGGAATAAG  
 ATAGCTGAGATAATGATTCCACATGAAAACCGAACCGAGGCCATGTACAACAAAATGAACATTTCTG  
 AACTGAGTGCTATGATCCCCAGTTCGACTGGCTGGGCTACATCAAGAAGGTCATTGACACCAGACTCTA  
 CCCCCATCTGAAAGACATCAGCCCTCCGAGAAATGTGGTGGTCCGCGTCCCGCAGTACTTTAAAGATTTG  
 TTTAGGATATTAGGGTCTGAGAGAAAAGAACGACATTGCCAATTTTGGTGTGGAGAATGGTTTATTCCA  
 GAATCCAAACCTTAGCAGGCGCTTTTCAATAGATAGATGGCTGGAATTTCAAGGGTAAATCCAGGGGACC  
 AACCTTTGCTGCCTCAATGGGACAAATGTGTAACTTTATTGAAAGTGCCCTCCCTTATGTTGTGAAAG  
 ATGTTTGTAGATGTACTTCCAGGAAGATAAAGAAAGAAATGATGGAGGAATTGGTTGAGGGCGTTCGCT  
 GGGCCTTTATTGACATGCTAGAGAAAAGAAAATGAGTGGATGGATGCAGGAACGAAAAGGAAAGCCAAAGA  
 AAAGGCGAGAGCTGTTTTGGCAAAGTTGGCTATCCAGAGTTTATAATGAATGATACTCATGTTAATGAA  
 GACCTCAAAGCTATCAAGTTTTTCAAGCCGACTACTTTGGCAACGTCCTACAACTCGCAAGTATTTAG  
 CACAGTCTGATTTCTTCTGGCTAAGAAAAGCCGTTCCAAAACAGAGTGGTTTACAAATCCGACGACTGT  
 CAATGCCTTCTACAGTGCATCCACCAACCAGATCCGATTTCCAGCAGGAGAGCTCCAGAAGCCTTTCTTT  
 TGGGGAACAGAATATCCTCGATCTCTGAGTTATGGTGCTATAGGAGTAATTGTCGGACATGAATTTACAC  
 ATGGATTTGATAATAATGGTAGAAAATATGATAAAAATGGAAACCTGGATCCTTGGTGGTCTACTGAATC  
 AGAAGAAAAGTTAAGGAAAAACAATAATGCATGATTAACAGTATAGCAACTATTATTGGAAGAAAGCT  
 GGCTTAAATGTCAAGGGGAGAGGACCCTGGGAGAAAATATTGCTGATAATGGAGGCTGCGGGAAGCTT  
 TTAGGGCTTACAGGAAATGGATAAATGACAGAAGGCGGACTTGAGGAGCCTTCTTACAGGCATCAC  
 ATTCACCAACAACCAGCTCTTCTTCTGAGTTATGCTCATGTGAGGTGCAATTCCTACAGACCAGAAGCT  
 GCCCGAGAACAAGTCAAATTTGGTGCTCACAGTCCCCCTCAGTTTAGGGTCAATGGTGAATTAGTAAT  
 TTGAAGAATTCAGAAAGCTTTTAACTGTCCACCAATTCCACGATGAACAGAGGCATGGACTCCTGCCG  
 ACTCTGG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG211248 representing NM\_000444  
 Red=Cloning site Green=Tags(s)

MEAETGSSVETGKKANRGTRIALVVFVGGTLVLGTILFLVSQGLLSLQAKQEYCLKPECIEAAAAILSKV  
 NLSVDPDNNFRFACDGISSNNPIPEDMPSYGVYPWLRHNVDLKLEKESISRRRDTEAIQKAKILYS  
 SCMNEKAIKADAKPLLHLRHSPFRWPVLESNIGPEGVWSEKFSLLQLATFRGQYSNSVFIIRLYVSP  
 DDKASNEHILKLDQATLSLAVREDYLDNSTEAKSYRDALYKFMVDTAVLLGANSSRAEHDMKSVLRLEIK  
 IAEIMIPHENRTSEAMYKMNISELSAMIPQFDWLGVIKKVIDTRLYPHLKDISPSENVVVRVPQYFKDL  
 FRILGSEKKTIANYLWVRMVSRIPNLSRRFQYRWLEFSRVIQGTITLLPQWDKCVNFIESALPYVVGK  
 MFVDVYFQEDKKEMMEELVEGVRWAFIDMLEKENEWMDAGTKRKAKEKARAVLAKVGYPEFIMNDTHVNE  
 DLKAIKFSEADYFGNVLQTRKYLAQSDFWLRKAVPKTEWFTNPTTVNAFYASTNQIRFPAGELQKPF  
 WGT EYPRSLSYGAIGVIVGHEFTHGFDNNGRKYDKNGNLDPPWSTESEEFKEKTKCMINQYSNYWKA  
 GLNVKGRKRLGENIADNGGLREAFRAYRWINDRRQGLEEPLPGITFTNNQLFFLSYAHVRCNSYRPEA  
 AREQVQIGAHSPQFRVNGAISNFEEFQKAFNCPPNSTMNRGMDSCLW

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:

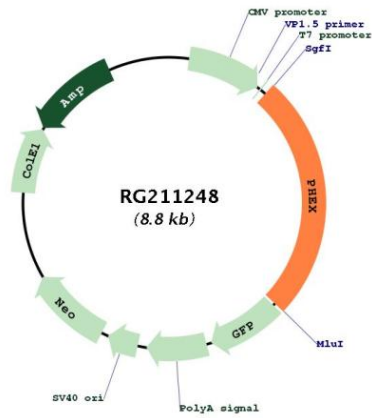


**ACCN:** NM\_000444

**ORF Size:** 2247 bp

<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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_000444.6</a>
<b>RefSeq Size:</b>	2877 bp
<b>RefSeq ORF:</b>	2250 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>

Product images:



Circular map for RG211248