

## Product datasheet for **RG239329**

### **PHEX (NM\_001282754) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PHEX (NM_001282754) 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:**

>RG239329 representing NM\_001282754.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGAAGCAGAAACAGGGAGCAGCGTGGAGACTGGAAAGAAGGCCAACAGAGGCACTCGAATTGCCCTG
TCCGTGTTTGTCCGTGGCACCCCTAGTTCTGGGCACGATCCTCTTTCTAGTGAGTCAAGGTCTCTTAAGT
CTCCAAGCTAAACAGGAGTACTGCCTGAAGCCAGAATGCATCGAAGCGGCTGCTGCCATCTTAAGTAAA
GTAATCTGTCTGTGGATCCTTGTGATAATTTCTCCGGTTCGCTTGTGATGGCTGGATAAGCAATAAT
CCAATCCCGAAGATATGCCAAGCTATGGGGTTTATCCTTGGCTGAGACATAATGTTGACCTCAAGTTG
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TATTCATCCTGCATGAATGAGAAAGCGATTGAAAAAGCAGATGCCAAGCCACTGTACACATCCTACGG
CATTACCTTTCCGCTGGCCCGTCTTGAATCTAATATTGGCCCTGAAGGGGTTTGGTCAGAGAGAAAG
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TTGAAATTAAGTAGCTGAGATAATGATTCCACATGAAAACCGAACCAGCGAGGCCATGTACAACAAA
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AGAATGGTTTATCCAGAATCCAAACCTTAGCAGGCGCTTTCAGTATAGATGGCTGGAATCTCAAGG
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CCTTATGTTGTTGGAAAGATGTTTGTAGATGTGTACTTCCAGGAAGATAAGAAGGAAATGATGGAGGAA
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GTAATTGTCCGACATGAATTTACACATGGATTTGATAAATGTTAGAAAATATGATAAAAATGGAAC
CTGGATCCTTGGTGGTCTACTGAATCAGAAGAAAAGTTTAAAGGAAAAACAAAATGCATGATTAACCAG
TATAGCAACTATTATTGGAAGAAAGCTGGCTTAAATGTCAAGGGGAAGAGGACCCTGGGAGAAAATATT
GCTGATAATGGAGGCCTGCGGGAAGCTTTTAGGGCTTACAGGAAATGGATAAATGACAGAAGGCAGGGA
CTTGAGGAGCCTCTTACCAGGCATCACATTCACCAACAACCAGCTCTTCTCTGAGTTATGCTCAT
GGTCAATGGTCAAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG239329  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

    MEAETGSSVETGKKANRGTRIALVVFVGGTLVLGTILFLVSQGLLSLQAKQEYCLKPECIEAAAAILSK
    VNL SVDPCDNFRFACDGIWISNNPIPEDMPSYGVYPWLRHNVDLKLEKLEKISIRRRDTEAIQKAKIL
    YSSCMNEKAIEKADAKPLLHLRHSPFRWPVLESNIGPEGVWSEKFSLLQTLATFRGQYSNSVFI RLY
    VSPDDKASNEHILKLDQATLSLAVREDYLDNSTEAKSYRDALYKFMVDTAVLLGANSSRAEHDMKSVLR
    LEIKIAEIMIPHENRTSEAMYNKMNISELSAMIPOQFDWLYIKKVIDTRLYPHLKDISPENVVVRVPO
    YFKDLFRILGSEKKTIANYL VWRMVYSRIPNLSRRFQYRWLEFSRVIQGTITLLPQWDKCVNFIESAL
    PYYVGKMFVDVYFQEDKKEMMEELVEGVRWAFIDMLEKENEMDAGTKRKAKEKARAVLAKVGYPEFIM
    NDTHVNEDLKAIKFSEADYFGNVLQTRKYLAQSDFFWLKAVPKTEWFTNPTTVNAFYASTNQIRFPA
    GELQKPPFFWGTEYPRSLSYGAIGVIVGHEFTHGFDNNGRKYDKNGNLDPWVWSTEESEKFKKTCMINK
    YSNYYWKKAGLNVKGRKTLGENIADNGGLREAFRAYRKWINDRRQGLEEPLPGITFTNNQLFSLYAH
    GQWCN
    TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
    MGYGFYHFGTYPSTYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
    SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
    FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
    
```

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001282754

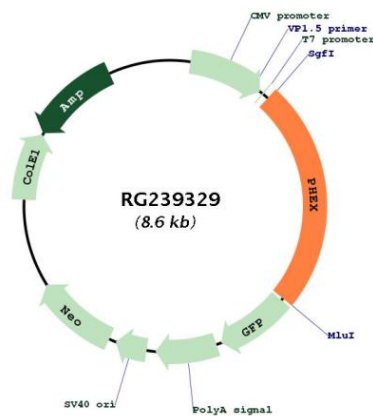
**ORF Size:** 2085 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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>RefSeq:</b>	<a href="#">NM_001282754.2</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>MW:</b>	80.8 kDa
<b>Gene Summary:</b>	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]

### Product images:



Circular map for RG239329