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Product datasheet for RC239329

PHEX (NM_001282754) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHEX (NM_001282754) Human Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>RC239329 representing NM_001282754
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGCAGAAACAGGGAGCAGCGTGGAGACTGGAAAGAAGGCCAACAGAGGCACTCGAATTGCCCTGG
TCGTGTTTGTCGGTGGCACCCTAGTTCTGGGCACGATCCTCTTTCTAGTGAGTCAAGGTCTCTTAAGTCT
CCAAGCTAAACAGGAGTACTGCCTGAAGCCAGAATGCATCGAAGCGGCTGCTGCCATCTTAAGTAAAGTA
AATCTGTCTGTGGATCCTTGTGATAATTTCTTCCGGTTCGCTTGTGATGGCTGGATAAGCAATAATCCAA
TTCCCGAAGATATGCCAAGCTATGGGGTTTATCCTTGGCTGAGACATAATGTTGACCTCAAGTTGAAGGA
ACTTTTGGAGAAATCAATCAGTAGAAGGCGGGACACCGAAGCCATACAGAAAGCCAAAATCCTTTATTCA
TCCTGCATGAATGAGAAAGCGATTGAAAAAGCAGATGCCAAGCCACTGCTACACATCCTACGGCATTCAC
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TCTGCAGACACTTGCAACGTTTCGTGGTCAATACAGCAATTCTGTGTTCATCCGTTTGTATGTGTCCCCT
GATGACAAAGCATCCAATGAACATATCTTGAAGCTGGACCAAGCAACACTCTCCCTGGCCGTGAGGGAAG
ACTACCTTGATAACAGTACAGAAGCCAAGTCTTATCGGGATGCCCTTTACAAGTTCATGGTGGATACTGC
CGTGCTTTTAGGAGCTAACAGTTCCAGAGCAGAGCATGACATGAAGTCAGTGCTCAGATTGGAAATTAAG
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GAATTCCAAACCTTAGCAGGCGCTTTCAGTATAGATGGCTGGAATTCTCAAGGGTAATCCAGGGGACCAC
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TGGGGAACAGAATATCCTCGATCTCTGAGTTATGGTGCTATAGGAGTAATTGTCGGACATGAATTTACAC
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TTAGGGCTTACAGGAAATGGATAAATGACAGAAGGCAGGGACTTGAGGAGCCTCTTCTACCAGGCATCAC
ATTCACCAACAACCAGCTCTTCTTCCTGAGTTATGCTCATGGTCAATGGTGCAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

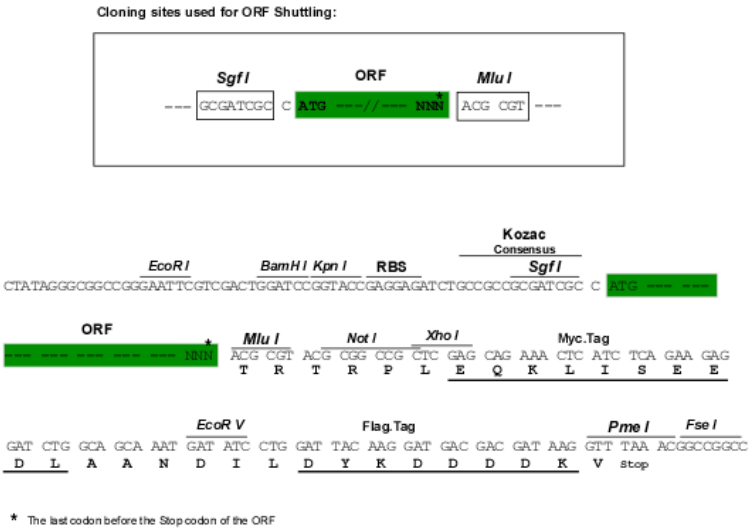
>RC239329 representing NM_001282754
Red=Cloning site Green=Tags(s)

MEAETGSSVETGKKANRGTRIALVVFVGGTLVLGTILFLVSQGLLSLQAKQEYCLKPECIEAAAAILSKV
NLSVDPCDNFFRFACDGWISNNPIPEDMPSYGVYPWLRHNVDLKLKELLEKSISRRRDTEAIQKAKILYS
SCMNEKAIEKADAKPLLHILRHSPFRWPVLESNIGPEGVWSERKFSLLQTLATFRGQYSNSVFIRLYVSP
DDKASNEHILKLDQATLSLAVREDYLDNSTEAKSYRDALYKFMVDTAVLLGANSSRAEHDMKSVLRLEIK
IAEIMIPHENRTSEAMYNKMNISELSAMIPQFDWLGYIKKVIDTRLYPHLKDISPSENVVVRVPQYFKDL
FRILGSERKKTIANYLVWRMVYSRIPNLSRRFQYRWLEFSRVIQGTTTLLPQWDKCVNFIESALPYVVGK
MFVDVYFQEDKKEMMEELVEGVRWAFIDMLEKENEWMDAGTKRKAKEKARAVLAKVGYPEFIMNDTHVNE
DLKAIKFSEADYFGNVLQTRKYLAQSDFFWLRKAVPKTEWFTNPTTVNAFYSASTNQIRFPAGELQKPFF
WGTEYPRSLSYGAIGVIVGHEFTHGFDNNGRKYDKNGNLDPWWSTESEEKFKEKTKCMINQYSNYYWKKA
GLNVKGKRTLGENIADNGGLREAFRAYRKWINDRRQGLEEPLLPGITFTNNQLFFLSYAHGQWCN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001282754

ORF Size: 2085 bp

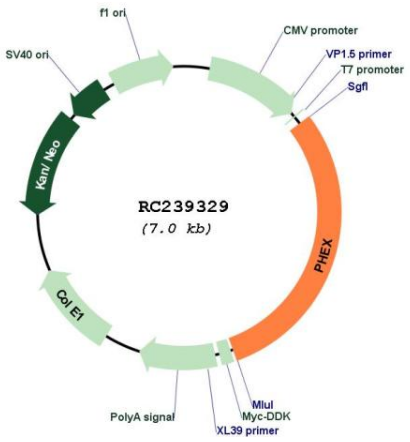
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001282754.2
RefSeq Size:	6092 bp
RefSeq ORF:	2088 bp
Locus ID:	5251
UniProt ID:	P78562
Cytogenetics:	Xp22.11
Protein Families:	Druggable Genome, Protease, Transmembrane
MW:	80.8 kDa
Gene Summary:	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 RC239329