

Product datasheet for **RC235832**

PHPT1 (NM_001287343) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PHPT1 (NM_001287343) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PHPT1
Synonyms: CGI-202; HEL-S-132P; HSPC141; PHP; PHP14
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC235832 representing NM_001287343
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGTGGCGGACCTCGCTCTATTCTGATGTGGACATCGACTCCGACGGCGTCTTCAAGTATGTGC
TGATCCGAGTCCACTCGGCTCCCGCTCCGGGCTCCGGCTGCAGAGAGCAAGGAGATCGTGC
CGGCTCAAGTGGGCTGAGTACCATGCGGACATCTACGACAAAGTGTGGGCGACATGCAGAAGCAAGGCTGCGAC
TGTGAGTGTCTGGGCGGGCGGCATCTCCACCAGAGTCAGGACAAGAAGATTCACGTGTACGGCTATT
CCATGCAGATGAGACCCACGTGCGTCCCTCTGGGCGCCTCAGGCCAGGATCCACCATCAAGGCCTATG
TCCTGCCAGCAGCCATTTCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235832 representing NM_001287343
Red=Cloning site Green=Tags(s)

MAVADLALIPDVIDSDGVFKYVLIIRVHSAPRSGAPAAESKEIVRGYKWAIEYHADIYDKVSGDMQKQGC
CECLGGGRISHQSQDKIHYVGYSMQMRPTCVPLGASGPRIHHQGLWSPARHFN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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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:	<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_001287343.2
RefSeq Size:	1257 bp
RefSeq ORF:	378 bp
Locus ID:	29085
Cytogenetics:	9q34.3
Protein Families:	Druggable Genome
Protein Pathways:	Fructose and mannose metabolism, Metabolic pathways, Riboflavin metabolism, Thiamine metabolism
MW:	14.2 kDa
Gene Summary:	This gene encodes an enzyme that catalyzes the reversible dephosphorylation of histidine residues in proteins. It may be involved in the dephosphorylation of G-beta and ATP citrate lyase and in negatively regulating CD4 T lymphocytes by dephosphorylation and inhibition of KCa3.1 channels. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]