

Product datasheet for **RC205124**

PHPT1 (NM_014172) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PHPT1 (NM_014172) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PHPT1
Synonyms: CGI-202; HEL-S-132P; HSPC141; PHP; PHP14
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC205124 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTGGCGGACCTCGCTCTCATTCTGATGTGGACATCGACTCCGACGGCGTCTTCAAGTATGTGC
TGATCCGAGTCCACTCGGCTCCCCGCTCCGGGGCTCCGGTGCAGAGAGCAAGGAGATCGTGCGCGGCTA
CAAGTGGGCTGAGTACCATGCGGACATCTACGACAAAGTGTGGGGGACATGCAGAAGCAAGGCTGCGAC
TGTGAGTGTCTGGGCGGGGGCGCATCTCCACCAGAGTCAGGACAAGAAGATTCACGTGTACGGCTATT
CCATGGCCTATGGTCTGCCAGCACGCCATTTCAACTGAGAAAATCAAAGCCAAGTACCCCGACTACGA
GGTCACCTGGGCTAACGACGGCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205124 protein sequence
Red=Cloning site Green=Tags(s)
MAVADLALIPDVIDSDGVFKYVLRVHSAPRSGAPAAESKEIVRGYKWAEYHADIYDKVSGDMQKQGCD
CECLGGGRISHQSQDKIHVYGYSMAYGPAQHAISTEKIKAKYPDYEVTWANDGY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6326_h03.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_014172

ORF Size: 375 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.

RefSeq: [NM_014172.6](#)

RefSeq Size: 1199 bp

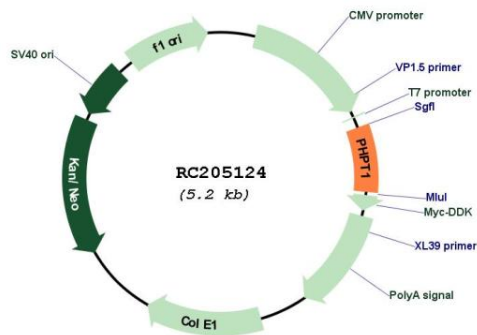
RefSeq ORF: 378 bp

Locus ID: 29085

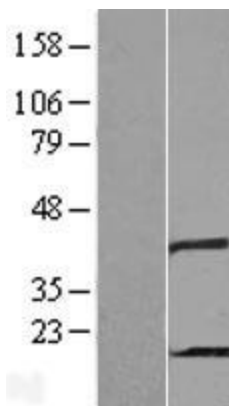
UniProt ID: [Q9NRX4](#)

Cytogenetics:	9q34.3
Domains:	Ocnus
Protein Families:	Druggable Genome
Protein Pathways:	Fructose and mannose metabolism, Metabolic pathways, Riboflavin metabolism, Thiamine metabolism
MW:	13.8 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]

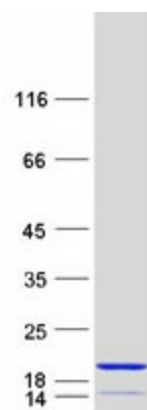
Product images:



Circular map for RC205124



Western blot validation of overexpression lysate (Cat# [LY415462]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205124 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PHPT1 protein (Cat# [TP305124]). The protein was produced from HEK293T cells transfected with PHPT1 cDNA clone (Cat# RC205124) using MegaTran 2.0 (Cat# [TT210002]).