

## Product datasheet for **RG205124**

### PHPT1 (NM\_014172) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PHPT1 (NM\_014172) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PHPT1  
**Synonyms:** CGI-202; HEL-S-132P; HSPC141; PHP; PHP14  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG205124 representing NM\_014172  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGTGGCGGACCTCGCTCTCATTCTGATGTGGACATCGACTCCGACGGCGTCTTCAAGTATGTGC  
TGATCCGAGTCCACTCGGCTCCCCGCTCCGGGGCTCCGGCTGCAGAGAGCAAGGAGATCGTGC GCGGCTA  
CAAGTGGGCTGAGTACCATGCGGACATCTACGACAAAGTGTGGGCGACATGCAGAAGCAAGGCTGCGAC  
TGTGAGTGTCTGGGCGGGCGCATCTCCACCAGAGTCAGGACAAGAAGATTCACGTGTACGGCTATT  
CCATGGCCTATGGTCTGCCAGCACGCCATTTCAACTGAGAAAATCAAAGCCAAGTACCCCGACTACGA  
GGTCACCTGGGCTAACGACGGCTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG205124 representing NM\_014172  
Red=Cloning site Green=Tags(s)  
MAVADLALIPDVIDSDGVFKYVLRVHSAPRSGAPAAESKEIVRGYKWA EYHADIYDKVSGDMQKQGCD  
CECLGGGRISHQSQDKIHVYGYSMAYGPAQHAISTEKIKAKYPDYEV TWANDGY

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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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](#)

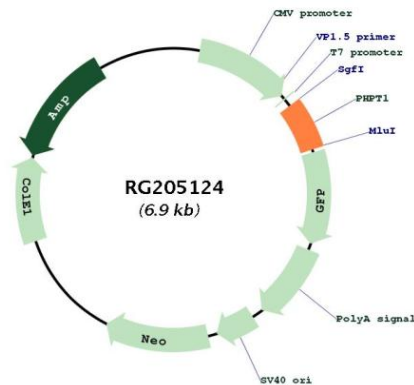
RefSeq Size: 903 bp

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

**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 RG205124