

## Product datasheet for **RG235832**

### PHPT1 (NM\_001287343) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PHPT1 (NM\_001287343) 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:** >RG235832 representing NM\_001287343.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGTGGCGGACCTCGCTCTCATTCTGATGTGGACATCGACTCCGACGGCGTCTTCAAGTATGTG
CTGATCCGAGTCCACTCGGCTCCCCGCTCCGGGCTCCGGCTGCAGAGAGCAAGGAGATCGTGCCGGC
TACAAGTGGGCTGAGTACCATGCGGACATCTACGACAAAGTGTGGGGGACATGCAGAAGCAAGGCTGC
GACTGTGAGTGTCTGGGCGGGGGCGCATCTCCACCAGAGTCAGGACAAGAAGATTCACGTGTACGGC
TATTCCATGCAGATGAGACCCACGTGCGTCCCTCTGGGCGCTCAGGCCCCAGGATCCACCATCAAGGC
CTATGGTCTGCCAGCACGCCATTTCAAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG235832  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MAVADLALIPDVIDSDGVFKYVLRVHSAPRSGAPAAESKEIVRGYKWAHEYHADIYDKVSGDMQKQGC
DCECLGGGRISHQSQDKKIHVYGYSMQMRPTCVPLGASGPRIHHQGLWSCPARDHN
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI



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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001287343

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](#)

<b>OTI Annotation:</b>	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_001287343.2</a>
<b>RefSeq Size:</b>	1257 bp
<b>RefSeq ORF:</b>	378 bp
<b>Locus ID:</b>	29085
<b>Cytogenetics:</b>	9q34.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Fructose and mannose metabolism, Metabolic pathways, Riboflavin metabolism, Thiamine metabolism
<b>MW:</b>	14.2 kDa
<b>Gene Summary:</b>	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]