

Product datasheet for **RG235850**

PHPT1 (NM_001287342) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PHPT1 (NM_001287342) 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: >RG235850 representing NM_001287342.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGTGGCGGACCTCGCTCTCATTCTGATGTGGACATCGACTCCGACGGCGTCTTCAAGTATGTG
CTGATCCGAGTCCACTCGGCTCCCCGCTCCGGGCTCCGGCTGCAGAGAGCAAGGAGATCGTGCCGGC
TACAAGTGGGCTGAGTACCATGGTGAGGCGGACATCTACGACAAAGTGTCGGGCGACATGCAGAAGCAA
GGCTGCGACTGTGAGTGTCTGGGCGGGGCGCATCTCCACCAGAGTCAGGACAAGAAGATTCACGTG
TACGGCTATTCCATGGCCTATGGTCTGCCAGCAGCCATTTCAACTGAGAAAAATCAAAGCCAAGTAC
CCCGACTACGAGGTCACCTGGGCTAACGACGGCTAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235850
Blue=ORF Red=Cloning site Green=Tag(s)

```
MAVADLALIPDVIDSDGVFKYVLRVHSAPRSGAPAAESKEIVRGYKWAIEYHGEADIYDKVSGDMQKQ
GCDCECLGGGRISHQSQDKKIHVYGYSMAYGPAQHAISTEKIKAKYPDYEVTWANDGY
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI

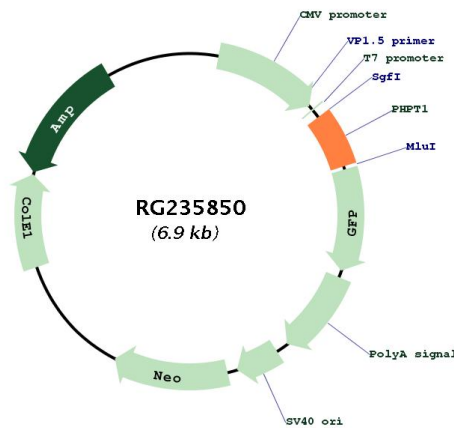


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001287342

ORF Size: 381 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](#)

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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). |
| RefSeq: | NM_001287342.2 |
| RefSeq Size: | 1205 bp |
| RefSeq ORF: | 384 bp |
| Locus ID: | 29085 |
| Cytogenetics: | 9q34.3 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Fructose and mannose metabolism, Metabolic pathways, Riboflavin metabolism, Thiamine metabolism |
| MW: | 14.5 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] |