

Product datasheet for SC333726

PHPT1 (NM_001287343) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHPT1 (NM_001287343) Human Untagged Clone
Tag:	Tag Free
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)
Fully Sequenced ORF:	>SC333726 representing NM_001287343. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGCGGTGGCGGACCTCGCTCTCATTCTGATGTGGACATCGACTCCGACGGCGTCTTCAAGTATGTG
CTGATCCGAGTCCACTCGGCTCCCGCTCCGGGCTCCGGCTGCAGAGAGCAAGGAGATCGTGCCGGC
TACAAGTGGGCTGAGTACCATGCGGACATCTACGACAAAGTGTGGGCGACATGCAGAAGCAAGGCTGC
GACTGTGAGTGTCTGGGCGGGCGCATCTCCACCAGAGTCAGGACAAGAAGATTCACGTGTACGGC
TATTCCATGCAGATGAGACCCACGTGCGTCCCTCTGGGCGCTCAGGCCCCAGGATCCACCATCAAGGC
CTATGGTCTGCCAGCACGCCATTTCAACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001287343
Insert Size:	378 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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).



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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:	<u>NM_001287343.1</u>
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:	13.8 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (5) uses an alternate in-frame splice site in the 5' coding region and includes an alternate exon in the 3' coding region, compared to variant 4. This results in a frameshift and an early stop codon. It encodes isoform 5, which is shorter and has a distinct C-terminus, compared to isoform 4.</p>