

PHPT1 cDNA

Catalog Number: ATGD0096

PRODUCT INFORMATION

Catalog number

ATGD0096

Product type

cDNA

Species

Human

NCBI Accession No.

NP_054891.2

Alternative Names

CGI-202, HEL-S-132P, HSPC141, PHP14

mRNA Refseq

NM_014172.5

OMIM

610167

Chromosome location

9q34.3

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

378bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

PHPT1 cDNA

Catalog Number: ATGD0096

PHPT1 is a 125 amino acid enzyme belonging to the Janus protein family. Existing as a monomer in the cytoplasm, PHPT1 is an EDTA-insensitive phosphohistidine phosphatase. Overexpression of PHPT1 leads to specific phosphohistidine phosphatase activity towards phosphopeptide I, with no activity detected towards phosphotyrosine, phosphothreonine and phosphoserine peptides.

DATA

Sequence nucleotides

```
ATGGCGGTGG CGGACCTCGC TCTCATTCTT GATGTGGACA TCGACTCCGA CGGCGTCTTC AAGTATGTGC
TGATCCGAGT CCACTCGGCT CCCCCTCCG GGGCTCCGGC TGCAGAGAGC AAGGAGATCG TCGCGGGCTA
CAAGTGGGCT GAGTACCATG CGGACATCTA CGACAAAGTG TCGGGCGACA TGCAGAAGCA AGGCTGCGAC
TGTGAGTGTC TGGGCGGGCG GCGCATCTCC CACCAGAGTC AGGACAAGAA GATTCACGTG TACGGCTATT
CCATGGCCTA TGGTCCTGCC CAGCACGCCA TTTCAACTGA GAAAATCAA GCCAAGTACC CCGACTACGA
GGTCACCTGG GCTAACGACG GCTACTGA
```

Transaction Sequence

```
MAVADLALIP DVDIDSDGVF KYVLIRVHSA PRSGAPAAES KEIVRGYKWA EYHADIYDKV SGDMQKQGCD CECLGGGRIS
HQSQDKKIHV YGYSMAYGPA QHAISTEKIK AKYPDYEVTW ANDGY
```