

PIP4K2B cDNA

Catalog Number: ATGD0363

PRODUCT INFORMATION

Catalog number

ATGD0363

Product type

cDNA

Species

Human

NCBI Accession No.

NP_003550.1

Alternative Names

PI5P4KB, PIP5K2B, PIP5KIIB, PIP5KIIBeta, PIP5P4KB

mRNA Refseq

NM_003559.4

OMIM

603261

Chromosome location

17q12

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

1251bp

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

PIP4K2B cDNA

Catalog Number: ATGD0363

PIP4K2B catalyzes the phosphorylation of phosphatidylinositol-4-phosphate on the fifth hydroxyl of the myo-inositol ring to form phosphatidylinositol-4, 5-bisphosphate. It is a member of the phosphatidylinositol-4-phosphate 5-kinase family. The amino acid sequence of PIP4K2B does not show similarity to other kinases, but the protein does exhibit kinase activity.

DATA

Sequence nucleotides

```
ATGTCGTCCAACCTGCACCAGCACCGCGGTGGCGGTGGCGCCGCTCAGCGCCAGCAAGACCAAGACCAAGAAGAAGCA
TTTCGTGTGCCAGAAAGTGAAGCTATTCCGGGCCAGCGAGCCGATCCTCAGCGTCCTGATGTGGGGGGTGAACCACACGAT
CAATGAGCTGAGCAATGTTCTCTGTTCTGTCATGCTAATGCCAGATGACTTCAAAGCCTACAGCAAGATCAAGGTGGACAAT
CATCTCTTCAATAAGGAGAACCTGCCCAGCCGCTTTAAGTTTAAGGAGTATTGCCCCATGGTGTTCGAAACCTTCGGGAGA
GGTTTGGAATTGATGATCAGGATTACCAGAATTCAGTGACGCGCAGCGCCCCCATCAACAGTGACAGCCAGGGTCGGTGTG
GCACGCGTTTCTCACCACCTACGACCGGCGCTTTGTCATCAAGACTGTGTCCAGCGAGGACGTGGCGGAGATGCACAACA
TCTTAAAGAAATACCACCAGTTTATAGTGGAGTGTGTCATGGCAACACGCTTTTGCCACAGTTCCTGGGCATGTACCGCCTGAC
CGTGGATGGTGTGGAAACCTACATGGTGGTTACCAGGAACGTGTTTACGCCATCGGCTCACTGTGCATCGCAAGTATGACCT
CAAGGGTTCTACGGTTGCCAGAGAAGCGAGCGACAAGGAGAAGGCCAAGGACTTGCCAACATTCAAAGACAATGACTTCCT
CAATGAAGGGCAGAAGCTGCATGTGGGAGAGGAGAGTAAAAAGAACTTCCTGGAGAACTGAAGCGGGACGTTGAGTTCT
TGGCACAGCTGAAGATCATGGACTACAGCCTGCTGGTGGGCATCCACGACGTGGACCGGGCAGAGCAGGAGGAGATGGA
GGTGGAGGAGCGGGCAGAGGACGAGGAGTGTGAGAATGATGGGGTGGGTGGCAACCTACTCTGCTCCTATGGCACACCT
CCGGACAGCCCTGGCAACCTCCTCAGCTTTCCTCGGTTCTTTGGTCTGGGGAATTCGACCCCTCTGTTGACGTCTATGCCA
TGAAAAGCCATGAAAGTTCCTCCCAAGAAGGAGGTGATTTTCATGGCCATCATTGATATCCTCAGCCATACGATACAAAGAA
GAAAGCTGCACATGCTGCCAAAACGGTGAACACGGGGCAGGGGGCCGAGATCTCGACTGTGAACCCTGAGCAGTACTCCA
AACGCTTCAACGAGTTTATGTCCAACATCCTGACGTAG
```

Transaction Sequence

```
MSSNCTSTTA VAVAPLSASK TKTKKKHFVC QKVLFRASE PILSVLMWGV NHTINELSNV PVPVMLMPDD FKAYSIKVD
NHLFNKENLP SRFKFKEYCP MVFRNLRERF GIDDQDYQNS VTRSAPINSQ SQGRGTRFL TTYDRRFVIK TVSSEDVEM
HNILKKYHQF IVECHGNTLL PQFLGMYRLT VDGVEYTMVV TRNVFSHRLT VHRKYDLKGS TVAREASDKE KAKDLPTFKD
NDFLNEGQKL HVGEESKKNF LEKLKRDVEF LAQLKIMDYS LLVGIHDVDR AEQEEMEVEE RAEDEECEND GVGGNLLCSY
GTPPDSPGNL LSFPRFFGPG EFDPSVDVYA MKSHESSPKK EVYFMAIIDI LTPYDTKKKA AHAAKTVKHG AGAEISTVNP
EQYSKRFEF MSNILT
```