

PPP1R2 cDNA

Catalog Number: ATGD0333

PRODUCT INFORMATION

Catalog number

ATGD0333

Product type

cDNA

Species

Human

NCBI Accession No.

NP_006232.1

Alternative Names

Protein phosphatase inhibitor 2, Protein phosphatase 1, Regulatory (inhibitor) subunit 2, IPP-2, PPP1R2

mRNA Refseq

NM_006241.7

OMIM

601792

Chromosome location

3q29

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

618bp

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

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PPP1R2 is an inhibitor of protein-phosphatase 1 and forms heterodimer with PP1. Phosphorylation on Thr-73 by GSK3 activates PP1 by dissociating the PP1-PPP1R2 complex. Phosphorylation on Ser-44 by ATM activates PP1 by dissociating the PP1-PPP1R2 complex.

DATA

Sequence nucleotides

```
ATGGCGGCCTCGACGGCCTCGCACCGGCCCATCAAGGGGATCTTGAAGAACAAGACCTCTACGACTTCCTCTATGGTGGCG
TCGGCCGAACAGCCCCGCGGAATGTCGACGAGGAGCTGAGCAAAAATCCCAGAAGTGGGATGAAATGAACATCTTGGC
GACGTATCATCCAGCAGACAAAGACTATGGTTTAATGAAAATAGATGAACCAAGCACTCCTTACCATAGTATGATGGGGGAT
GATGAAGATGCCTGTAGTGACACCGAGGCCACTGAAGCCATGGCGCCAGACATCTTAGCCAGGAAATTAGCTGCAGCTGAA
GGCTTGGAGCCAAAGTATCGGATTCAGGAACAAGAAAGCAGTGGAGAGGAGGATAGTGACCTCTCACCTGAAGAACGAGA
AAAAAAGCGACAATTTGAAATGAAAAGGAAGCTTCACTACAATGAAGGACTCAATATCAAAGTAGCCAGACAATTAATTTCAA
AAGACCTACATGATGATGATGAAGATGAAGAAATGTTAGAGACTGCAGATGGAGAAAGCATGAATACGGAAGAATCAAATC
AAGGATCTACTCCAAGTGACCAACAGCAAAAACAAATTACGAAGTTCATAG
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Transaction Sequence

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MAASTASHRP IKGILKNKTS TTSSMVASAE QPRGNVDEEL SKKSQKWDEM NILATYHPAD KDYGLMKIDE PSTPYHSMMG
DDEDACSDTE ATEAMAPDIL ARKLAAAEGL EPKYRIQEQE SSGEEDSDLS PEEREKKRQF EMKRKLHYNE GLNIKLARQL
ISKDLHDDDE DEEMLETADG ESMNTEESNQ GSTPSDQQQN KLRSS
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