

## PPP1R2 cDNA

Catalog Number: ATGD0333

### PRODUCT INFORMATION

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**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

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**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

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#### Sequence nucleotides

```
ATGGCGGCCTCGACGGCCTCGCACCGGCCCATCAAGGGGATCTTGAAGAACAAGACCTCTACGACTTCCTCTATGGTGGCG
TCGGCCGAACAGCCCCGCGGAATGTCGACGAGGAGCTGAGCAAAAATCCCAGAAGTGGGATGAAATGAACATCTTGGC
GACGTATCATCCAGCAGACAAAGACTATGGTTAATGAAAATAGATGAACCAAGCACTCCTTACCATAGTATGATGGGGGAT
GATGAAGATGCCTGTAGTGACACCGAGGCCACTGAAGCCATGGCGCCAGACATCTTAGCCAGGAAATTAGCTGCAGCTGAA
GGCTTGGAGCCAAAGTATCGGATTCAGGAACAAGAAAGCAGTGGAGAGGAGGATAGTGACCTCTCACCTGAAGAACGAGA
AAAAAAGCGACAATTTGAAATGAAAAGGAAGCTTCACTACAATGAAGGACTCAATATCAAAGTCCAGACAATTAATTTCAA
AAGACCTACATGATGATGATGAAGATGAAGAAATGTTAGAGACTGCAGATGGAGAAAGCATGAATACGGAAGAATCAAATC
AAGGATCTACTCCAAGTGACCAACAGCAAAAACAATTACGAAGTTCATAG
```

#### Transaction Sequence

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