

PPP1R1B cDNA

Catalog Number: ATGD0335

PRODUCT INFORMATION

Catalog number

ATGD0335

Product type

cDNA

Species

Human

NCBI Accession No.

NP_115568.2

Alternative Names

DARPP-32, DARPP32, Protein phosphatase 1 regulatory inhibitor subunit 1B

mRNA Refseq

NM_032192.3

OMIM

604399

Chromosome location

17q12

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

615bp

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

PPP1R1B cDNA

Catalog Number: ATGD0335

PPP1R1B encodes a bifunctional signal transduction molecule. Dopaminergic and glutamatergic receptor stimulation regulates its phosphorylation and function as a kinase or phosphatase inhibitor. As a target for dopamine, this gene may serve as a therapeutic target for neurologic and psychiatric disorders. Multiple transcript variants encoding different isoforms have been found for this gene.

DATA

Sequence nucleotides

```
ATGGACCCCAAGGACCGCAAGAAGATCCAGTTCTCGGTGCCCCGCGCCCCCTAGCCAGCTCGACCCCCGCCAGGTGGAGAT
GATCCGGCGCAGGAGACCAACGCCTGCCATGCTGTTCCGGCTCTCAGAGCACTCCTCACCAGAGGAGGAAGCCTCCCCC
ACCAGAGAGCCTCAGGAGAGGGGGCACCATCTCAAGTCGAAGAGACCCAACCCCTGTGCCTACACACCACCTTCGCTGAAAG
CTGTGCAGCGCATTGCTGAGTCTCACCTGCAGTCTATCAGCAATTTGAATGAGAACCAGGCCTCAGAGGAGGAGGATGAGC
TGGGGGAGCTTCGGGAGCTGGGTTATCCAAGAGAGGAAGATGAGGAGGAAGAGGAGGATGATGAAGAAGAGGAAGAAGA
AGAGGACAGCCAGGCTGAAGTCCTGAAGGTCATCAGGCAGTCTGCTGGGCAAAAGACAACCTGTGGCCAGGGTCTGGAAG
GGCCCTGGGAGCGCCACCCCCTCTGGATGAGTCCGAGAGAGATGGAGGCTCTGAGGACCAAGTGGAAGACCCAGCACTA
AGTGAGCCTGGGGAGGAACCTCAGCGCCCTTCCCCCTCTGAGCCTGGCACATAG
```

Transaction Sequence

```
MDPKDRKKIQ FSVPAAPSQL DPRQVEMIRR RRPTPAMLFR LSEHSSPEEE ASPHQRASGE GHHLKSKRPN PCAYTPPSLK
AVQRIAESHL QSISNLNENQ ASEEDELGE LRELGYPREE DEEEEDDEE EEEEDSQAE VLKVIRQSAG QKTTGQGLE
GPWERPPPLD ESERDGGSED QVEDPALSEP GEEPQRSPS EPGT
```