

RPS6 cDNA

Catalog Number: ATGD0036

PRODUCT INFORMATION

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ATGD0036

Product type

cDNA

Species

Human

NCBI Accession No.

NP_001001.2

Alternative Names

Ribosomal protein S6, Phosphoprotein NP33

mRNA Refseq

NM_001010.2

OMIM

180460

Chromosome location

9p21

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

750bp

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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Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a cytoplasmic ribosomal protein that is a component of the 40S subunit. The protein belongs to the S6E family of ribosomal proteins. It is the major substrate of protein kinases in the ribosome, with subsets of five C-terminal serine residues phosphorylated by different protein kinases. Phosphorylation is induced by a wide range of stimuli, including growth factors, tumor-promoting agents, and mitogens. Dephosphorylation occurs at growth arrest. The protein may contribute to the control of cell growth and proliferation through the selective translation of particular classes of mRNA. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.

DATA

Sequence nucleotides

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ATGAAGCTGA ACATCTCCTT CCCAGCCACT GGCTGCCAGA AACTCATTGA AGTGGACGAT GAACGCAAAC
TTCGTACTTT CTATGAGAAG CGTATGGCCA CAGAAGTTGC TGCTGACGCT CTGGGTGAAG AATGGAAGGG
TTATGTGGTC CGAATCAGTG GTGGGAACGA CAAACAAGGT TTCCCATGA AGCAGGGTGT CTTGACCCAT
GGCCGTGTCC GCCTGCTACT GAGTAAGGGG CATTCTGTT ACAGACCAAG GAGAACTGGA GAAAGAAAGA
GAAAATCAGT TCGTGGTTGC ATTGTGGATG CAAATCTGAG CGTTCTCAAC TTGGTTATTG TAAAAAAGG
AGAGAAGGAT ATTCCTGGAC TGA CTGATAC TACAGTGCCT CGCCGCCTGG GCCC AAAAG AGCTAGCAGA
ATCCGCAAAC TTTTCAATCT CTCTAAAGAA GATGATGTCC GCCAGTATGT TGTAAGAAAG CCCTTAAATA
AAGAAGGTAA GAAACCTAGG ACCAAAGCAC CCAAGATTCA GCGTCTTGTT ACTCCACGTG TCCTGCAGCA
CAAACGGCGG CGTATTGCTC TGAAGAAGCA GCGTACCAAG AAAAATAAAG AAGAGGCTGC AGAATATGCT
AAACTTTTGG CCAAGAGAAT GAAGGAGGCT AAGGAGAAGC GCCAGGAACA AATTGCGAAG AGACGCAGAC
TTTCCTCTCT GCGAGCTTCT ACTTCTAAGT CTGAATCCAG TCAGAAATAA
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Transaction Sequence

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MKLNISFPAT GCQKLIEVDD ERKLRTFYEK RMATEVAADA LGEEWKGYVV RISGGNDKQG FPMKQGVLTG GRVRLLSKG
HSCYRPRRTG ERKRKSVRGC IVDANLSVLN LVIVKKGEKD IPGLDTTVP RRLGPKRASR IRKLFNLSKE DDVRQYVVRK
PLNKEGKKPR TKAPKIQRLV TPRVLQHKRR RIALKKQRTK KNKEEAAEYA KLLAKRMKEA KEKRQE QIAK RRLSSLRAS
TSKSESSQK
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