RPS6 cDNA

Catalog Number: ATGD0036

PRODUCT INFORMATION

Catalog number
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

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

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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

ATGAAGCTGA ACATCTCCTT CCCAGCCACT GGCTGCCAGA AACTCATTGA AGTGGACGAT GAACGCAAAC
TTCGTACTTT CTATGAGAAG CGTATGGCCA CAGAAGTTGC TGCTGACGCT CTGGGTGAAG AATGGAAGGG
TTATGTGGTC CGAATCAGTG GTGGGAACGA CAAACAAGGT TTCCCCATGA AGCAGGGTGT CTTGACCCAT
GGCCGTGTCC GCCTGCTACT GAGTAAGGGG CATTCCTGTT ACAGACCAAG GAGAACTGGA GAAAGAAAGA
GAAAATCAGT TCGTGGTTGC ATTGTGGATG CAAATCTGAG CGTTCTCAAC TTGGTTATTG TAAAAAAAGG
AGAGAAGGAT ATTCCTGGAC TGACTGATAC TACAGTGCCT CGCCGCCTGG GCCCCAAAAG 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

Transaction Sequence

MKLNISFPAT GCQKLIEVDD ERKLRTFYEK RMATEVAADA LGEEWKGYVV RISGGNDKQG FPMKQGVLTH GRVRLLLSKG
HSCYRPRRTG ERKRKSVRGC IVDANLSVLN LVIVKKGEKD IPGLTDTTVP RRLGPKRASR IRKLFNLSKE DDVRQYVVRK
PLNKEGKKPR TKAPKIQRLV TPRVLQHKRR RIALKKQRTK KNKEEAAEYA KLLAKRMKEA KEKRQEQIAK RRRLSSLRAS
TSKSESSQK