

CPSF4 cDNA

Catalog Number: ATGD0259

PRODUCT INFORMATION

Catalog number

ATGD0259

Product type

cDNA

Species

Human

NCBI Accession No.

NP_001075028.1

Alternative Names

CPSF30, NAR, NEB1

mRNA Refseq

NM_001081559.1

OMIM

603052

Chromosome location

7q22.1

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

735bp

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

CPSF4 cDNA

Catalog Number: ATGD0259

Inhibition of the nuclear export of poly (A) -containing mRNAs caused by the influenza A virus NS1 protein requires its effector domain. The NS1 effector domain functionally interacts with the cellular 30 kDa subunit of cleavage and polyadenylation specific factor 4, an essential component of the 3' end processing machinery of cellular pre-mRNAs. In influenza virus-infected cells, the NS1 protein is physically associated with cleavage and polyadenylation specific factor 4, 30kD subunit. Binding of the NS1 protein to the 30 kDa protein in vitro prevents CPSF binding to the RNA substrate and inhibits 3' end cleavage and polyadenylation of host pre-mRNAs. Thus the NS1 protein selectively inhibits the nuclear export of cellular, and not viral, mRNAs. Multiple alternatively spliced transcript variants that encode different isoforms have been described for CPSF4.

DATA

Sequence nucleotides

```
ATGCAGGAAATCATCGCCAGCGTGGACCACATCAAGTTTGACTTGGAGATCGCGGTGGAGCAGCAGCTGGGGGCGCAGCC
GCTGCCCTTCCCCGGCATGGACAAGTCGGGCGCTGCTGTCTGTGAATTCTTTTGAAGCTGCCTGCGGCAAAGGGGGCAT
GTGTCCGTTTCGCCACATCAGTGGTGAGAAGACAGTTGTGTGCAAACACTGGCTGCGTGGCCTATGCAAGAAAGGGGACCA
GTGTGAGTTCCTGCATGAGTATGACATGACCAAGATGCCCCGAGTGCTACTTCTACTCCAAGTTCGGGGAGTGCAGCAACAA
GGAATGTCCCTTCCTGCACATCGACCCCGAGTCCAAGATCAAGGACTGTCCTTGGTATGACCGTGGCTTCTGCAAGCACGG
TCCCCTCTGCAGGCACCGGCACACACGGAGAGTCATCTGTGTGAATTACCTCGTGGGATTCTGCCCGAGGGGGCCCTCGTG
TAAATTCATGCACCCTCGATTTGAACTGCCCATGGGAACCAACCGAGCAGCCCCCACTGCCGCAGCAGACACAGCCTCCAGC
AAAGCAGAGAACCCCGCAGGTCATCGGGGTCATGCAGAGTCAAAACAGCAGCGCGGGCAACCGGGGACCCCGGCCACTG
GAGCAGGTCACCTGTTACAAGTGTGGCGAGAAAGGACACTACGCCAACAGATGCACCAAAGGGCACTTGGCCTTTCTCAGT
GGACAGTGA
```

Transaction Sequence

```
MQEIIASVDH IKFDLEIAVE QQLGAQPLPF PGMDKSGAAV CEFFLKAACG KGGMCPFRHISGEKTVVCKH WLRGLCKKGD
QCEFLHEYDM TKMPECYFYS KFGECNKEC PFLHIDPESKIKDCPWYDRG FCKHGPLCRH RHTRRVICVN YLVGFCPEGP
SCKFMHPRFE LPMGTTEQPPLPQQTQPPAK QRTPQVIGVM QSQNSSAGNR GPRPLEQVTC YKCGEKGHYA
NRCTKGHLAFLSGQ
```