

Product datasheet for **RC200532**

CPSF30 (CPSF4) (NM_001081559) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPSF30 (CPSF4) (NM_001081559) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CPSF4
Synonyms:	CPSF30; NAR; NEB-1; NEB1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC200532 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGGAAATCATCGCCAGCGTGGACCACATCAAGTTTGACTTGGAGATCGCGGTGGAGCAGCAGCTGG
GGGCGCAGCCGCTGCCCTTCCCCGGCATGGACAAGTCGGGCGCTGCTGTCTGTGAATTCTTTTTGAAAGC
TGCTTGCAGCAAAGGGGGCATGTGTCCGTTTCGCCACATCAGTGGTGAGAAGACAGTTGTGTGCAAACAC
TGGCTGCGTGGCCTATGCAAGAAAGGGGACCAGTGTGAGTTCCTGCATGAGTATGACATGACCAAGATGC
CCGAGTGTACTTCTACTCCAAGTTCGGGGAGTGCAGCAACAAGGAATGTCCCTTCTGCACATCGACCC
CGAGTCCAAGATCAAGGACTGTCCTTGGTATGACCGTGGCTTCTGCAAGCACGGTCCCCTCTGCAGGCAC
CGGCACACACGGAGATCATCTGTGTGAATTACCTCGTGGGATTCTGCCCGAGGGGCCCTCGTGTAAAT
TCATGCACCCTCGATTTGAACTGCCATGGGAACCACCGAGCAGCCCCACTGCCGAGCAGACACAGCC
TCCAGCAAAGCAGAGAACCCCGCAGGTATCGGGGTATGCAGAGTCAAACAGCAGCGCGGGCAACCGG
GGACCCCGCCACTGGAGCAGGTACCTGTTACAAGTGTGGCGAGAAAGGACACTACGCCAACAGATGCA
CAAAGGGCACTTGGCCTTCTCAGTGGACAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200532 protein sequence
 Red=Cloning site Green=Tags(s)

MQEIIASVDHIKFDLEIAVEQQLGAQPLPFPMDKSGAAVCEFFLKAACGKGGMCPFRHISGEKTVVCKH
 WLRGLCKKGDQCEFLHEYDMTKMPECYFYSKFGECSNKECPFLHIDPESKIKDCPWYDRGFCKHGPLCRH
 RHTRRVICVNYLVGFCEGSPCKFMHPRFELPMGTTEQPPLPQQTPPAKQRTQPQVIGVMQSQNSSAGNR
 GPRPLEQVTCYKCGEKGHYANRCTKGHLAFLSGQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

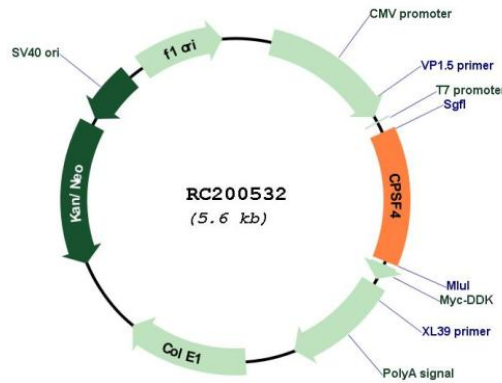
Chromatograms: https://cdn.origene.com/chromatograms/mk6388_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



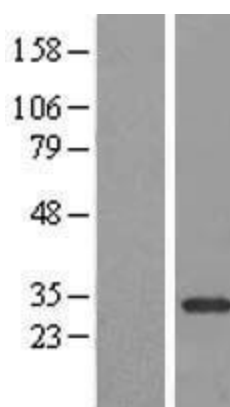
Plasmid Map:



ACCN: NM_001081559

ORF Size:	732 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_001081559.2
RefSeq Size:	1754 bp
RefSeq ORF:	735 bp
Locus ID:	10898
UniProt ID:	O95639
MW:	27.5 kDa
Gene Summary:	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 this gene. [provided by RefSeq, Jul 2008]

Product images:



Western blot validation of overexpression lysate (Cat# [LY421163]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200532 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).