

## Product datasheet for **RG217281**

### **CPSF30 (CPSF4) (NM\_006693) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CPSF30 (CPSF4) (NM_006693) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CPSF4
Synonyms:	CPSF30; NAR; NEB-1; NEB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217281 representing NM_006693 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGGAAATCATCGCCAGCGTGGACCACATCAAGTTTGACTTGGAGATCGCGGTGGAGCAGCAGCTGG  
GGGCGCAGCCGCTGCCCTTCCCCGGCATGGACAAGTCGGGCGCTGCTGTCTGTAATTCTTTTAAAAGC  
TGCCTGCGGCAAAGGGGCATGTGTCCGTTTCGCCACATCAGTGGTGAGAAGACAGTTGTGTCAAACAC  
TGGCTGCGTGGCCTATGCAAGAAAGGGACCAGTGTGAGTTCCTGCATGAGTATGACATGACCAAGATGC  
CCGAGTGTACTTCTACTCCAAGTTCGGGGAGTGCAGCAACAAGGAATGTCCCTTCTGCACATCGACCC  
CGAGTCCAAGATCAAGGACTGTCCCTGGTATGACCGCGGCTTCTGCAAGCACGGTCCCCTTGCAGGCAC  
CGGCACACACGGAGATCATCTGTGTGAATTACCTCGTGGGATTCTGCCCGAGGGGCCCTCGTGTAAAT  
TCATGCACCTCGATTTGAACTGCCCATGGGAACCACCGAGCAGCCCCACTGCCACAGCAGACACAGCC  
TCCAGCAAAGCAAAGTAAACAATCCGCCATTACAAAGGTCGTCTCCTTGATCCAGTTAACGAGTCAGAAC  
TCTTCTCCAATCAGCAGAGAACCCCGCAGTTCATCGGGTTCATGCAGAGTCAAAACAGCAGCGCGGGCA  
ACCGGGGACCCCGCCACTGGAGCAGGTACCTGTTACAAGTGTGGCGAGAAAGGACACTACGCCAACAG  
ATGCACCAAAGGGCACTTGGCCTTCTCAGTGGACAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG217281 representing NM\_006693  
 Red=Cloning site Green=Tags(s)

MQEIIASVDHIKFDLEIAVEQQLGAQPLPFPMDKSGAAVCEFFLKAACGKGGMCPFRHISGEKTVVCKH  
 WLRGLCKKGDQCEFLHEYDMTKMPECYFYSKFGECSNKECPFLHIDPESKIKDCPWYDRGFCKHGPLCRH  
 RHTRRIVICVNYLVGFCEGSPCKFMHPRFELPMGTTEQPPLPQQTPPAKQSNNPPLQRSSSLIQLTSQN  
 SSPNQQRTPQVIGVMQSQNSSAGNRGPRPLEQVTCYKCKGEKGHYANRCKGHLAFLSGQ

TRTRPLE - GFP Tag - V

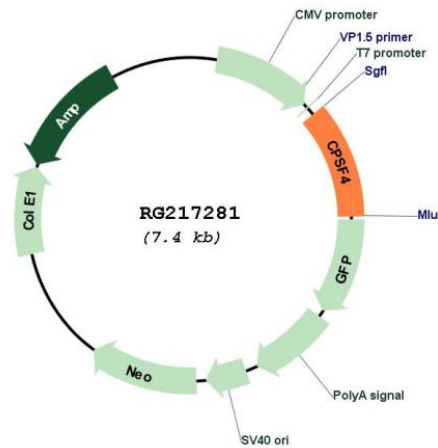
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_006693

**ORF Size:** 807 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_006693.1</a> , <a href="#">NP_006684.1</a>
<b>RefSeq Size:</b>	1717 bp
<b>RefSeq ORF:</b>	810 bp
<b>Locus ID:</b>	10898
<b>UniProt ID:</b>	<a href="#">O95639</a>
<b>Cytogenetics:</b>	7q22.1
<b>Domains:</b>	zf-CCCH, zf-CCHC
<b>Gene Summary:</b>	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]