

Product datasheet for **SC125853**

CPSF30 (CPSF4) (BC050738) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPSF30 (CPSF4) (BC050738) Human Untagged Clone
Tag:	Tag Free
Symbol:	CPSF30
Synonyms:	cleavage-polyadenylation specificity factor, 30kD; cleavage and polyadenylation specific factor 4, 30kDa; CPSF30; NAR; NEB1; no arches-like zinc finger protein
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for BC050738 edited
 GGCGAAGCGAAGGAGGAGTGTGTGCGGGCGGGCCGGCGGGGTAAGGCGAGAAGGCTG
 CAGGAGACCGAGGGGAGCCGGGCGGTGGGGCCGCCGCCGCATGCAGGAAATCAT
 CGCCAGCGTGGACCACATCAAGTTTGACTTGGAGATCGCGGTGGAGCAGCAGCTGGGGG
 GCAGCCGCTGCCCTTCCCGGCATGGACAAGTCGGGCGCTGCTGTCTGTGAATCTTTTT
 GAAAGCTGCCTGCGGCAAAGGGGCATGTGTCCGTTTCGCCACATCAGTGGTGAGAAGAC
 AGTTGTGTGCAAACTGGCTGCGCTATGCAAGAAAGGGGACCAGTGTGAGTTCTCCT
 GCATGAGTATGACATGACCAAGATGCCCGAGTGCTACTTCTACTCCAAGTTCGGGGAGTG
 CAGCAACAAGGAATGTCCCTTCCGACATCGACCCCGAGTCCAAGATCAAGGACTGTCC
 TTGGTATGACCGCGGCTTCTGCAAGCACGGTCCCCTCTGCAGGCACCGGCACACCGGAG
 AGTCATCTGTGTGAATTACCTCGTGGGATTCTGCCCGAGGGGCCCTCGTGTAAATTCAT
 GCACCCTCGATTTGAACTGCCCATGGGAACACCGAGCAGCCCCACTGCCACAGCAGAC
 ACAGCCTCCAGCAAAGAGAACCCCGCAGGTCATCGGGGTATGCAGAGTCAAACAGCAG
 CGCGGGCAACCGGGACCCCGGCCACTGGAGCAGGTCACCTGTTACAAGTGTGGCGAGAA
 AGGACACTACGCCAACAGATGCACCAAAGGGCACTTGGCCTTTCTCAGTGGACAGTGACA
 GCAGCTGGAGCCAGCTCCGAGCAGCCCGGGGCCCGCTGTTGGGAGTGTGCATTTAACT
 GTTTCATGCGCTTGTGGCGCGACTGTGGCTCGAGCTGGCCCGCAGACACGTGGGTTTCA
 TCACTCTGAGGGGCCACGTCTGTAGTTTCTATCATTTTGCCGTAGTATTTTTGAAAA
 AGGGACATGTGTCTGTGGGTCCCTGCAGTCGACATCATGTTGGCTGGGCATCGATGCC
 TCCTTTCTGGGACTCCCGGCACAACCTCCCTGCCCTGCTGAATCCTAAAGCTGTGCCTATA
 TCTGTGATTTGAATGAGGGAGCCCTTTGGGGCAAATTCAGGTGCCCCATTGCCTCAGGC
 TGGCCCTGGTCCCAGGTGGCAGCGGTTGAGGAGGGGTACAGGGCTCTCAAGCCTGAGGTT
 TTCTTCTGTGGCTTAATTTTCTTTGGGTACGTGCCTGACAGTGTTTAAGGTGTCCTG
 TGAATGGAGTTGCAGACTTTTAAATAGATGACCCCTTCAGATCATCTGTGCCTACCTCC
 TGCCCATCAGGCGTCTACTGTCACTCAGACACCTGTGGCATGTGGAGGAGACTGCCCT
 GTCCTGAGCCTGGAAAATGTGAACTGTCTCCTGCAACCTGCTGGGCATGTGGCCTGGC
 TGTGTTCAATTGCAAGAACAATTTTATGAAATGGATTAAGCTTGTTTTTTAAAAAAA
 AA
 AAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC050738 unedited
 NGGAGTTTGAAATTTGTATACGACTCATATAGGCGGCCGCGNATTCAGATCTGGTACCGG
 TCCGGAATTCGGGATATCGTCGACCCACGCGTCCGGGCGAAGCGAAGGAGGAGTGTGT
 GCGGCGGGGCGCGCGGGTAAAGGCGAGAAGGCTGCAGGAGACCAGGGGGAGCCGGG
 CCGGTGGGGCCCGCCGCCCATGCAGGAAATCATCGCCAGCGTGGACCACATCAAGT
 TTGACTTGGAGATCGCGGTGGAGCAGCAGTGGGGCGCAGCCGCTGCCCTTCCCGGCA
 TGGACAAGTCGGGCGCTGCTGTCTGTGAATCTTTTTGAAAGCTGCCTGCGGCAAAGGG
 GCATGTGTCCGTTTCGCCACATCAGTGGTGAGAAGACAGTTGTGTGCAAACACTGGCTGC
 GTGGCCTATGCAAGAAAGGGACCAGTGTGAGTTCCTGCATGAGTATGACATGACCAAGA
 TGCCCCAGTGTACTTCTACTCCAAGTTCGGGAGTGCAGCAACAAGGAATGTCCCTTCC
 TGCACATCGACCCGAGTCCAAGATCAAGGACTGTCCTTGGTATGACCGCGCTTCTGCA
 AGCAGCGTCCCCTCTGCAGGCACCGGCACACCGAGAGTCATCTGTGTGAATTACCTCG
 TGGGATTCGCCGAGGGGCCCTCGTGTAAATTCATGCACCCTCGATTTGAACTGCCCA
 TGGGAACCAACCGAGCAGCCCCACTGCCACAGCAGACACAGCCTCCAGCAAAGAGAACCC
 CGCCAGTCATCGGGTCAATGCAGAGTCAAACAGCAGCGGGCAACCGGGGACCCCGGCC
 ACTGGAGCAGGTACCTGTTACAAGTGTGGC

Restriction Sites: NotI-NotI
ACCN: BC050738

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

Components: 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [BC050738.1](#), [AAH50738.1](#)

RefSeq Size: 1640 bp

Locus ID: 10898

Cytogenetics: 7q22.1

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]