

# **Product datasheet for AR50847PU-S**

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# CPSF4 (1-244, His-tag) Human Protein

#### **Product data:**

**Product Type:** Recombinant Proteins

**Description:** CPSF4 (1-244, His-tag) human recombinant protein, 0.1 mg

Species: Human
Expression Host: E. coli

**Expression cDNA Clone** 

or AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSMQEIIAS VDHIKFDLEI AVEQQLGAQP LPFPGMDKSG AAVCEFFLKA ACGKGGMCPF RHISGEKTVV CKHWLRGLCK KGDQCEFLHE YDMTKMPECY FYSKFGECSN KECPFLHIDP ESKIKDCPWY DRGFCKHGPL CRHRHTRRVI CVNYLVGFCP EGPSCKFMHP RFELPMGTTE QPPLPQQTQP PAKQRTPQVI GVMQSQNSSA GNRGPRPLEQ

VTCYKCGEKG HYANRCTKGH LAFLSGQ

Tag: His-tag
Predicted MW: 29.9 kDa
Concentration: lot specific

Purity: >85% by SDS - PAGE

**Buffer:** Presentation State: This purified protein is available in a denatured form, making it less

suitable for functional studies. Denatured proteins are better suited for applications like

Western Blot (WB) or imaging assays.

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol

**Preparation:** Liquid purified protein

**Protein Description:** Recombinant human CPSF4 protein, fused to His-tag at N-terminus, was expressed in E.coli.

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid

repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**RefSeq:** NP 001075028

 Locus ID:
 10898

 UniProt ID:
 095639

 Cytogenetics:
 7q22.1

**Synonyms:** CPSF30, NAR, NEB1, No arches homolog

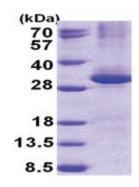




#### **Summary:**

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:**



15% SDS-PAGE (3ug)