# Cleavage Stimulation Factor Subunit 2 (CSTF2) Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Cleavage stimulation factor subunit 2 (CSTF2), Recombinant Protein |
| **Full Product Name** | Recombinant Human Cleavage stimulation factor subunit 2 (CSTF2) |
| **Product Gene Name** | CSTF2 recombinant protein |
| **Sequence** | MAGLTVRDPA VDRSLRSVFV GNIPYEATEE QLKDIFSEVG PVVSFRLVYD RETGKPKGYG FCEYQDQETA LSAMRNLNGR EFSGRALRVD NAASEKNKEE LKSLGTGAPV IESPYGETIS PEDAPESISK AVASLPPEQM FELMKQMKLC VQNSPQEARN MLLQNPQLAY ALLQAQVVMR IVDPEIALKI LHRQTNIPTL IAGNPQPVHG AGPGSGSNVS MNQQNPQAPQ AQSLGGMHVN GAPPLMQASM QGGVPAPGQM PAAVTGPGPG SLAPGGGMQA QVGMPGSGPV SMERGQVPMQ DPRAAMQRGS LPANVPTPRG LLGDAPNDPR GGTLLSVTGE VEPRGYLGPP HQGPPMHHVP GHESRGPPPH ELRGGPLPEP RPLMAEPRGP MLDQRGPPLD GRGGRDPRGI DARGMEARAM EARGLDARGL EARAMEARAM EARAMEARAM EARAMEVRGM EARGMDTRGP VPGPRGPIPS GMQGPSPINM GAVVPQGSRQ VPVMQGTGMQ GASIQGGSQP GGFSPGQNQV TPQDHEKAAL IMQVLQLTAD QIAMLPPEQR QSILILKEQI QKSTGAP |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 59,251 Da |
| **Sequence Positions** | 1-577, Full length protein |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **OMIM** | 300907 |
| **3D Structure** | ModBase 3D Structure for P33240 |
| **Species** | Human |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for CSTF2 recombinant protein** | MBS1190510 is a recombinant protein targeting CSTF2. Also known as Recombinant Human Cleavage stimulation factor subunit 2 (CSTF2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of CSTF2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CSTF2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 807201178 |
| **NCBI GeneID** | 1478 |

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| **NCBI Accession #** | NP_001293138.1 |
| **UniProt Primary Accession #** | P33240 |
| **UniProt Secondary Accession #** | Q5H951; Q6LA74; Q8N502 |
| **UniProt Related Accession #** | P33240 |
| **GenBank Nucleotide #** | NM_001306209.1 |
| **NCBI Official Full Name** | cleavage stimulation factor subunit 2 isoform 3 |
| **NCBI Official Synonym Full Names** | cleavage stimulation factor subunit 2 |
| **NCBI Official Symbol** | CSTF2 |
| **NCBI Official Synonym Symbols** | CstF-64 |
| **UniProt Protein Name** | Cleavage stimulation factor subunit 2 |
| **UniProt Synonym Protein Names** | CF-1 64 kDa subunit; Cleavage stimulation factor 64 kDa subunit; CSTF 64 kDa subunit; CstF-64 |
| **Protein Family** | Cleavage stimulation factor |
| **UniProt Gene Name** | CSTF2 |
| **UniProt Synonym Gene Names** | CSTF 64 kDa subunit; CstF-64 |
| **NCBI Protein Information** | cleavage stimulation factor subunit 2 |
| **NCBI Summary for CSTF2** | This gene encodes a nuclear protein with an RRM (RNA recognition motif) domain. The protein is a member of the cleavage stimulation factor (CSTF) complex that is involved in the 3' end cleavage and polyadenylation of pre-mRNAs. Specifically, this protein binds GU-rich elements within the 3'-untranslated region of mRNAs. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for CSTF2** | One of the multiple factors required for polyadenylation and 3'-end cleavage of mammalian pre-mRNAs. This subunit is directly involved in the binding to pre-mRNAs (). |
| **Research Articles on CSTF2** | **1.** hnRNP H binds to two specific G-runs in exon 5a of ACHE and activates the distal alternative 3 splice site (ss) between exons 5a and 5b. Furthermore, hnRNP H competes for binding of CstF64 to the overlapping binding sites in exon 5a, and suppresses the selection of a cryptic polyadenylation site, which additionally ensures transcription of the distal 3 ss required for the generation of AChET isoform. |
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