

Recombinant Full Length Human UPF1 Protein, C-Flag-tagged

Cat. No. UPF1-193HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human UPF1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a protein that is part of a post-splicing multiprotein complex involved in both mRNA nuclear export and mRNA surveillance. mRNA surveillance detects exported mRNAs with truncated open reading frames and initiates nonsense-mediated mRNA decay (NMD). When translation ends upstream from the last exon-exon junction, this triggers NMD to degrade mRNAs containing premature stop codons. This protein is located only in the cytoplasm. When translation ends, it interacts with the protein that is a functional homolog of yeast Upf2p to trigger mRNA decapping. Use of multiple polyadenylation sites has been noted for this gene. Alternative splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	122.9 kDa
AA Sequence	MSVEAYGPSSQTLTFLDTEEAELLGADTQGSEFEFTDFTLPSQTQTTPGGPGGGPGG GGAGGPGGAGAGAA AGQLDAQVGPEGILQNGAVDDSVAKTSQLLAELNFEEDDEE DTYYTKDLPIHACSYCGIHDPACVVYCNTS KKWFCNGRGNTSGSHIVNHLVRACK EVTLHKDGPLGETVLECYNCGCRNVFLLGFIPAKADSVVLLCR QPCASQSSLKDIN

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WDSSQWQPLIQDRCFLSWLVKIPSEQEQLRARQITAQQINKLEELWKENPSATLEDL
 EKPGVDEEPQHVLLRYEDAYQYQNIFGPLVKLEADYDKKLKESQTQDNITVRWDLG
 LNKKRIAYFTLPKT DSDMRLMQGDEICLRYKGD LAPLWKGIGHVIKVPDNYGDEIAIE
 LRSSVGAPVEVTHNFQVDFVWKSTSF DRMQSALKTF AVDETSVSGYIYHKLLGHEV
 EDVIIKCQLPKRFTAQGLPDLNHSQVYAVKTVLQRPLSLI QGPPGTGKTVTSATIVYH
 LARQGNPVLVCAPSNI AVDQLTEKIHQTGLKVRLCAKSRE AIDSPVSFLA LHNQIR
 NMDSMP ELQKLQQLKDET GELSSADEKRYRALKRTAERELLMNADVICTCVGAGD
 PRLAKMQF RSILIDESTQATEPECMVPVVLGAKQLILVGDHCQLGPVVMCKKAAKA
 GLSQSLFERLVVLGIRPIRLQV QYRMHPALSAFPSNIFYEGSLQNGVTAADRVKKGF
 DFQWPQPDKPMFFYVTQGQEEIASSGTSYLN RTEA ANVEKITTKLLKAGAKPDQIGII
 TPYEGQRSYLVQYMQFSGSLHTKLYQEVEIASVDAFQGREKDFIILS CVRANEHQGI
 GFLNDPRRLNVALTRARYGVII VGNPKALSKQPLWNHLLNYYKEQKVLVEGPLNNLR
 ESL MQFSKPRKLVNTINPGARFMTTAMYDAREAIIPGSVYDRSSQGRPSSMYFQTH
 DQIGMISAGPSHVAAMN IPIPFNLVMPMPMPPGYFGQANGPAAGRGT PKGKTGRG
 GRQKNRFG LPGPSQTNLPNSQASQDVASQPFS QGALTQGYISMSQPSQMSQPGL
 SQPELSQDSYLGDEFKSQIDVALSQDSTYQGERAYQHGGVTGLSQYTRTRPLEQKL
 ISEEDLAANDILDYKDDDDKV

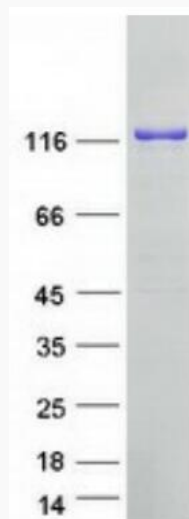
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Families	Druggable Genome
Full Length	Full L.
GENE INFORMATION	
Gene Name	UPF1 UPF1 RNA helicase and ATPase [Homo sapiens (human)]
Official Symbol	UPF1
Synonyms	UTF; HUPF1; NORF1; RENT1; smg-2; pNORF1
Gene ID	5976
mRNA Refseq	NM_002911.4
Protein Refseq	NP_002902.2
MIM	601430
UniProt ID	Q92900

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Coomassie blue staining of purified UPF1 protein.

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