

Recombinant Human UPF1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. UPF1-4190H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UPF1 MS Standard C13 and N15-labeled recombinant protein (NP_002902) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	123 kDa
AA Sequence	MSVEAYGPSSQTLTFLDTEEAELLGADTQGSEFEFTDFTLPSQTQTTPGGPGGPGG GGAGGPGGAGAGAAAGQLDAQVGPEGILQNGAVDDSVAKTSQLLAELNFEDEED TYYTKDLPIHACSYCGIHDPACVVYCNSTSKKWFCNCRGNTSGSHIVNHLVRAKCKE VTLHKDGPLGETVLECYNCGCRNVFLLGFIPAKADSVVLLCRQPCASQSSLKDINW

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

DSSQWQPLIQDRCFLSWLVKIPSEQEQLRARQITAQQINKLEELWKENPSATLEDLE
 KPGVDEEPQHVLRLRYEDAYQYQNI FGPLVKLEADYDKKLKESQTQDNITVRWDLGL
 NKKRIAYFTLPKTDSDMRLMQGDEICLRYKGD LAPLWKGIGHVIKVPDNYGDEIAIEL
 RSSVGAPVEVTHNFQVDFVWKSTSFDRMQSALKTF AVDETSVSGYIYHKLLGHEVE
 DVIKQCQLPKRFTAQGLPDLNHSQVYAVKTVLQRPLSLIQGPPGTGKTVTSATIVYHL
 ARQGNPVLVCAPSNI AVDQLTEKIHQTGLKVVR LCAKSREIDSPVSFLALHNQIRN
 MDSMP ELQKLQQLKDETGE LSSADEKRYRALKRTAERELLMNADVICTCVGAGDP
 RLAKMQFRSILIDESTQATEPECMVPVVLGAKQLILVGDHCQLGPVVMCKKAAKAGL
 SQSLFERLVVLGIRPIRLQVQYRMHPALSAFPSNIFYEGSLQNGVTAADRVKKGDFD
 QWPQPKPMFFYVTQGGQEEIASSGTSYLN RTEAANVEKITTKLLKAGAKPDQIGIITP
 YEGQRSYLVQYMQFSGSLHTKLYQEVEIASVDAFQGREKDFIILSCVRANEHQGIGF
 LNDPRRLNVALTRARYGVIIVGNPKALSKQPLWNHLLNYYKEQKVLVEGPLNNLRES
 LMQFSKPRKLVNTINPGARFMTTAMYDAREAIIPGSVYDRSSQGRPSSMYFQTHDQI
 GMISAGPSHVAAMNIPFNLVMPMPMPPGYFGQANGPAAGRGT PKGKTGRGGRQ
 KNRFGLPGPSQTNLPNSQASQDVASQPFSQGALTQGYISMSQPSQMSQPGLSQPE
 LSQDSYLGDEFKSQIDVALSQDSTYQGERAYQHGGVTGLSQYTRTRPLEQKLISEE
 DLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

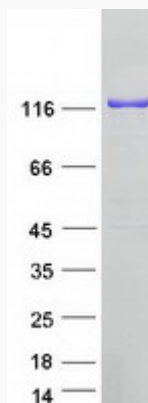
GENE INFORMATION

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Gene Name	UPF1 UPF1 RNA helicase and ATPase [Homo sapiens (human)]
Official Symbol	UPF1
Synonyms	UPF1; UPF1 regulator of nonsense transcripts homolog (yeast); regulator of nonsense transcripts 1, RENT1; regulator of nonsense transcripts 1; HUPF1; KIAA0221; NORF1; pNORF1; smg 2; smg 2 homolog; nonsense mediated mRNA decay factor (C. elegans); UP Frameshift 1; delta helicase; yeast Upf1p homolog; ATP-dependent helicase RENT1; nonsense mRNA reducing factor 1; up-frameshift mutation 1 homolog; up-frameshift suppressor 1 homolog; smg-2 homolog, nonsense mediated mRNA decay factor; RENT1; smg-2; FLJ43809; FLJ46894;
Gene ID	5976
mRNA Refseq	NM_002911
Protein Refseq	NP_002902
MIM	601430
UniProt ID	Q92900

SDS-PAGE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA