

Recombinant Human UPF1, His-tagged

Cat. No. UPF1-30951TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 703-1118 of Human RENT1/hUPF1 with N terminal His tag; 416 amino acids, 67 kDa ;
Species	Human
Source	E.coli
ProteinLength	703-1118 a.a.
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.
Conjugation	HIS
Tissue specificity	Ubiquitous.
Form	Lyophilised:Reconstitute with 69 µl distilled water.
Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium

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phosphate, 10mM Sodium chloride, pH 4.5

Storage

Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

Sequences of amino acids

RMHPALSAFPSNIFYEGSLQNGVTAADRVKKGDFDQWPQP DKPMFFYVTQGQEEI
 ASSGTSYLN RTEAANVEKITT KL LKAGAKPDQIGIITPYEGQRSYLVQYMQFSGSLHT
 KLY QEVEIASVDAFQGREKDFIILSCVRANEHQGIGFLNDPRRLNVALTRARYGVIIV
 GNPKALSKQPLWNHLLNYYKEQK VLVEGPLNNLRESLMQFSKPRKLVNTINPGARF
 MTTAM YDAREAIIPGSVYDRSSQGRPSSMYFQTHDQIGMISAG PSHVAAMNIPIPF
 NLVMPPMPPPGYFGQANGPAAGRTPK GKTGRGGRQKNRFGLPGPSQTNLPNS
 QASQDVASQPFS QGALTQGYISMSQPSQMSQPGLSQPELSQDSYLGDEFK SQID
 VALSQDSTYQGERAYQHGGVTGLSQY

Sequence Similarities

Belongs to the DNA2/NAM7 helicase family. Contains 1 C2H2-type zinc finger.

GENE INFORMATION

Gene Name

[UPF1](#) [UPF1 regulator of nonsense transcripts homolog \(yeast\)](#) [[Homo sapiens](#)]

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 Fram

Gene ID

[5976](#)

mRNA Refseq

[NM_002911](#)

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Protein Refseq	NP_002902
MIM	601430
Uniprot ID	Q92900
Chromosome Location	19p13.2-p13.11
Pathway	Exon junction complex (EJC), organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of RNA, organism-specific biosystem; Metabolism of mRNA, organism-specific biosystem; Nonsense Mediated Decay Enhanced by the Exon Junction Complex, organism-specific biosystem;
Function	ATP binding; ATP-dependent RNA helicase activity; DNA binding; RNA binding; chromatin binding;

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