

Recombinant Human UPF3A, His-tagged

Cat. No. UPF3A-31672TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1-296 of Human UPF3A with N terminal His tag; 296 amino acids, 34kDa.
Species	Human
Source	E.coli
ProteinLength	1-296 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. The encoded protein is one of two functional homologs to yeast Upf3p. 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 binds to the mRNA and remains bound after nuclear export, acting as a nucleocytoplasmic shuttling protein. It forms with Y14 a complex that binds specifically 20 nt upstream of exon-exon junctions. This gene is located on the long arm of chromosome 13. Two splice variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Tissue specificity	Isoform 1 is strongly expressed in testis, uterus, muscle, fetal brain and spinal cord. Isoform 2 is strongly expressed in fetal brain and spinal cord.

 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

Form	Lyophilised:Reconstitute with 108 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium 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	MRSEKEGAGGLRAAVAARGPSGREKLSALEVQFHRDSQQQ EAETPPTSSSGCGG GAGKPREEKRTALSKVVIRRLPPG LTKEQLEEQLRPLPAHDYFEFFAADLSLYPHLY SRAYINF RNPDDILLFRDRFDGYIFLDSKDPEYKKFLETYCVEEE KTSANPETLLGE MEAKTRELIARRTTPLLEYIKNRKLE KQRIREEKREERRRRELEKKRLREEEKRRRR EEERCKKKE TDKQKKIAEKEVRIKLLKPEKGEEPTTEKPKERGEEI DTGGGKQES CAPGAVVKARPMEGS
Sequence Similarities	Belongs to the RENT3 family.

GENE INFORMATION

Gene Name	UPF3A UPF3 regulator of nonsense transcripts homolog A (yeast) [Homo sapiens]
Official Symbol	UPF3A
Synonyms	UPF3A; UPF3 regulator of nonsense transcripts homolog A (yeast); regulator of nonsense transcripts 3A; HUPF3A; RENT3A; UPF3;
Gene ID	65110
mRNA Refseq	NM_023011
Protein Refseq	NP_075387

 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

MIM	605530
Uniprot ID	Q9H1J1
Chromosome Location	13q34
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	RNA binding; nucleocytoplasmic transporter activity; nucleotide binding; protein binding;

 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