

Recombinant Human UPF3B, His-tagged

Cat. No. UPF3B-31673TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 277-470 of Human UPF3B/RENT3B with N terminal His tag; Predicted MWt 24 kDa.
Species	Human
Source	E.coli
ProteinLength	277-470 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 X. Two splice variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 98 µl aqua dest.

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Storage buffer	Preservative: None Constituents: 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 -80°C. Avoid freeze / thaw cycles.
Sequences of amino acids	GDEKELDKREKAKKLDKENLSDERASGQCTLPKRSDSEL KDEKPKRPEDESGRD YREREREYERDQERILRERERLK RQEEERRRQKERYEKEKTFKRKEEEMKKEKDT LRDKGK KAESTESIGSSEKTEKKEEVVKRDRIRNKDRPAMQLYQ PGARSRNRLCP PDDSTKSGDSAAERKQESGISHRKEGGEE

GENE INFORMATION

Gene Name	UPF3B UPF3 regulator of nonsense transcripts homolog B (yeast) [Homo sapiens]
Official Symbol	UPF3B
Synonyms	UPF3B; UPF3 regulator of nonsense transcripts homolog B (yeast); regulator of nonsense transcripts 3B; HUPF3B; RENT3B; UPF3X;
Gene ID	65109
mRNA Refseq	NM_080632
Protein Refseq	NP_542199
MIM	300298
Uniprot ID	Q9BZI7
Chromosome Location	Xq25-q26

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Pathway	Cleavage of Growing Transcript in the Termination Region, organism-specific biosystem; Exon junction complex (EJC), organism-specific biosystem; Formation and Maturation of mRNA Transcript, organism-specific biosystem; Gene Expression, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	mRNA binding; nucleocytoplasmic transporter activity; nucleotide binding; protein binding;

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