

Recombinant Human UPF3B Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. UPF3B-2483H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UPF3B MS Standard C13 and N15-labeled recombinant protein (NP_075386) 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. 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.
Molecular Mass	56.2 kDa
AA Sequence	MKEEKEHRPKEKRVTLTPAGATGSGGGTSGDSSKGEDKQDRNKEKKEALSKVVIR RLPPTLTKEQLQEHLQPMPEHDYFEFFSNDTSLYPHMYARAYINFKNQEDIILFRDRF

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DGYVFLDNKGQEYPAIVEFAPFQKAAKKKTKKRDTKVGITDDPEYRKFLSYATDN
 EKMTSTPETLLEEIEAKNRELIAKKTTPLLSFLKNKQRMREEKREERRRREIERKRQR
 EEERRKWKEEEKRKRKDIEKLKKIDRIPERDKLKDEPKIKLLKKPEKGDEKELDKREK
 AKKLDKENLSDERASGQSCTLPKRSDSELKDEKPKRPEDESGRDYREREREYERD
 QEHLRERERLKRQEEERRRQKERYEKEKTFKRKEEEMKKEKDTLRDKGKKAESTE
 SIGSSEKTEKKEEVVKRDRI RNKDRPAMQLYQPGARSRNRLCPPDDSTKSGDSAAE
 RKQESGISHRKEGGEETRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Gene Name UPF3B UPF3B regulator of nonsense mediated mRNA decay [Homo sapiens (human)]

Official Symbol UPF3B

Synonyms UPF3B; UPF3 regulator of nonsense transcripts homolog B (yeast); regulator of nonsense transcripts 3B; HUPF3B; RENT3B; UPF3X; hUpf3p-X; nonsense mRNA reducing factor 3B; up-frameshift suppressor 3 homolog B; up-frameshift suppressor 3 homolog on chromosome X; MRXS14;

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Gene ID	65109
mRNA Refseq	NM_023010
Protein Refseq	NP_075386
MIM	300298
UniProt ID	Q9BZ17
SDS-PAGE	