Recombinant Human UPF3A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. UPF3A-6102H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UPF3A MS Standard C13 and N15-labeled recombinant protein (NP_542418) 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 13. Several splice variants encoding different isoforms have been found for this gene.
Molecular Mass	51 kDa
AA Sequence	MRSEKEGAGGLRAAVAARGPSGREKLSALEVQFHRDSQQQEAETPPTSSSGCGG GAGKPREEKRTALSKVVIRRLPPGLTKEQLEEQLRPLPAHDYFEFFAADLSLYPHLY

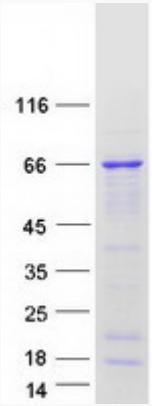
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	SRAYINFRNPDDILLFRDRFDGYIFLDSKDPEYKKFLETYCVEEEKTSANPETLLGEM EAKTRELIARRTTPLLEYIKNRKLEKQRIREEKREERRRRELEKKRLREEEKRRRREE ERCKKKETDKQKKIAEKEVRIKLLKKPEKGEEPTTEKPKERGEEIDTGGGKQESCAP GAVVKARPMEGSLEEPQETSHSGSDKEHRDVERSQEQESEAQRYHVDDGRRHRA HHEPERLSRRSEDEQRWGKGPGQDRGKKGSQDSGAPGEAMERLGRAQRCDDSP APRKERLANKDRPALQLYDPGARFRARECGGNRRICKAEGSGTGPEKREEAETRT RPLEQKLISEEDLAANDILDYKDDDDKV
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	UPF3A UPF3A regulator of nonsense mediated mRNA decay [Homo sapiens (human)]
Official Symbol	UPF3A
Synonyms	UPF3A; UPF3 regulator of nonsense transcripts homolog A (yeast); regulator of nonsense transcripts 3A; HUPF3A; RENT3A; UPF3; hUpf3; nonsense mRNA reducing factor 3A; up-frameshift suppressor 3 homolog A; FLJ35267; FLJ57970;
Gene ID	65110

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mRNA Refseq	NM_080687
Protein Refseq	NP_542418
MIM	605530
UniProt ID	Q9H1J1
SDS-PAGE	

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