

Product datasheet for **SC305816**

UPF3A (NM_080687) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UPF3A (NM_080687) Human Untagged Clone
Tag:	Tag Free
Symbol:	UPF3A
Synonyms:	HUPF3A; RENT3A; UPF3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC305816 representing NM_080687. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
ATGCGCTCGGAAAAGGAGGGGGCGGAGGCCTTCGGGCGGCCGTTGCCGCGCGGGGCCGAGCGGGAGG
GAGAAGCTGTCCGCCCTAGAAGTGCAGTTCCACCGCGACTCGCAGCAGCAGGAGGCTGAGACGCCGCCA
ACTTCGTCCTCCGGTTGCGGGGGCGGTGCGGGCAAACCTCGCAGGAGAAGAGGACGGCCCTGAGCAAG
GTGGTCATCCGCCGCTGCCTCCGGGCCTACCAAGGAGCAGCTGGAGGAGCAGCTGCGCCCGCTGCCA
GCACACGACTACTTCGAGTTCTTCGCCGCCGACCTGAGTCTTTATCCTCATCTCTACTCAAGAGCATA
ATTAATTTTAGGAATCCTGATGACATCCTTCTTTTAGAGATCGTTTGGATATATCTTCTTGAC
AGCAAAGATCCAGAATATAAGAAGTTTTAGAAACCTACTGTGTGGAGGAAGAGAAGACCAGTGCCAAC
CCTGAGACTCTGCTGGGGGAGATGGAGGCGAAGACAAGAGAGCTCATTGCTAGAAGAACCACACCTCTT
TTGGAATATATTAATAAGAAAATTAGAAAAGCAGAGAATTCGAGAAGAGAAGCGAGAAGAACGGAGG
AGGAGAGAGTTAGAAAAGAAACGTTTTCGGGAAGAGGAAAAAGAGAAGAGAAGAAAGATGC
AAAAAAGAGACAGATAAACAGAAGAAATTCAGAGAAAGAAAGTAAGGATTAAGCTTCTTAAGAAA
CCAGAAAAGGAGAGGAACCAACACAGAGAAACCAAGAAAGAGGAGAGGAGATTGATACTGGAGGT
GGCAAGCAGGAATCCTGTGCCCCCGTGCAGTCGTAAGGCCAGGCCCATGGAAGGCTCGCTGGAGGAG
CCCCAGGAGAGCTCACACAGCGCAGTGATAAAGAGCACAGGGATGTGGAGAGATCTCAAGAACAAGAA
TCTGAAGCACAAAGATACCATGTGGATGACGGCAGGAGGCACAGAGCTACCCACGAGCCTGAACGGCTT
TCCAGAAGGAGTGAGGATGAGCAGAGATGGGGAAAGGACCTGGCCAAGACAGAGGGAAGAGGGGAGC
CAGGACAGCGGGGCTCCGGGGGAGGCCATGGAGAGACTGGGAAGAGCGCAGAGGTGTGACGACAGTCCA
GCACCCAGAAAAGAGCGACTGGCAACAAGGACCGGCCAGCCTTGCAGCTGTATGATCCAGGAGCTCGC
TTCCGAGCGCAGAGTGTGGCGGAACAGGAGGATCTGCAAGGCAGAAGGTTCCGGGACTGGTCTGAG
AAGAGGAAGAGGCAGAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_080687
Insert Size:	1332 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_080687.2</u>
RefSeq Size:	2303 bp
RefSeq ORF:	1332 bp
Locus ID:	65110
UniProt ID:	<u>Q9H1J1</u>
Cytogenetics:	13q34
MW:	51 kDa

Gene Summary:

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. [provided by RefSeq, Jul 2017]

Transcript Variant: This variant (2) lacks an in-frame exon in the 5' coding region, compared to transcript variant 1. The resulting isoform (hUpf3pdelta) lacks an internal segment, compared to isoform hUpf3p.