

## Product datasheet for **SC309687**

### **UPF3B (NM\_080632) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	UPF3B (NM_080632) Human Untagged Clone
Tag:	Tag Free
Symbol:	UPF3B
Synonyms:	HUPF3B; MRX62; MRX82; MRXS14; RENT3B; UPF3BP1; UPF3BP2; UPF3BP3; Upf3p-X; UPF3X
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC309687 representing NM\_080632.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGAAGGAAGAGAAGGAGCACAGGCCTAAGGAGAAGCGAGTAACCTGTAAACCCCGCCGGGGCCACA
GGCAGCGGTGGTGGGACCTCGGGGGACAGCTCCAAGGGGAAGATAAGCAGGATCGCAACAAGGAGAAG
AAAGAAGCGCTGAGCAAGGTGGTAATTCGAAGATTACCTCCCACTTTGACCAAGGAGCAGCTTCAGGAA
CATCTTCAACCTATGCCTGAGCATGATTATTTTGAGTTTTTTCTAATGATACGAGTTTGTATCCTCAT
ATGTATGCCAGAGCATACATCACTTTAAAAACCAAGAGGACATTATTTTGTTTCAGGGATCGCTTTGAT
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GACAGAATTCAGAAAGGACAAATTAAGGATGAACCAAGATTAAGGTACACAGGTTTCTGTTACAA
GCTGTGAATCAGAAAAATCTGCTCAAGAAGCCAGAAAAAGGAGATGAAAAAGAAATGGACAAAAGAGAA
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AAGCGTTCTGATAGCGAACTTAAGATGAAAAACCAAGAGACCTGAAGATGAGAGCGGCAGAGACTAT
AGGGAGAGGGAACGGGAATATGAACGAGATCAGGAGCGCATACTTCGAGAAAGAGAGAGGCTGAAGCGG
CAAGAAGAAGAGCGCCGTAGGCAGAAGGAGCGCTATGAGAAAGAGAAGACTTTTAAGAGAAAAGAAGAA
GAAATGAAAAAAGAGAAAGACACACTTCGGGATAAGGAAAGAAAGGCTGAAAGTACAGAATCAATAGGC
AGCTCAGAAAAAACTGAAAAGAAAGAAGTGGTCAAGAGAGATCGAATAAGAAACAAGGATCGTCCA
GCGATGCAGCTTTACCAACCAGGAGCTCGAAGCCGAAATCGACTCTGTCCCCCTGATGACAGCACCAAG
TCTGGAGATTGAGCAGCAGAAAGGAAGCAGGAAAGTGGTATTAGCCATAGAAAAGAGGAGAGAGGAG
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_080632

**Insert Size:** 1452 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_080632.2</u>
<b>RefSeq Size:</b>	2404 bp
<b>RefSeq ORF:</b>	1452 bp
<b>Locus ID:</b>	65109
<b>UniProt ID:</b>	<u>Q9BZ17</u>
<b>Cytogenetics:</b>	Xq24
<b>MW:</b>	57.8 kDa
<b>Gene Summary:</b>	<p>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. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longer protein (isoform 1), also known as hUpf3-X.</p>