

## Product datasheet for **RG221466**

### UPF3B (NM\_080632) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UPF3B (NM_080632) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UPF3B
Synonyms:	HUPF3B; MRX62; MRX82; MRXS14; RENT3B; UPF3BP1; UPF3BP2; UPF3BP3; Upf3p-X; UPF3X
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG221466 representing NM\_080632  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGGAAGAGAAGGAGCACAGGCCTAAGGAGAAGCAGTAACCCTGTTAACCCCGCCGGGGCCACAG  
 GCAGCGGTGGTGGACCTCGGGGACAGCTCCAAGGGGAAGATAAGCAGGATCGCAACAAGGAGAAGAA  
 AGAAGCGCTGAGCAAGGTGGTAATTCGAAGATTACCTCCCACTTTGACCAAGGAGCAGCTTCAGGAACAT  
 CTTCAACCTATGCCTGAGCATGATTATTTTGTAGTTTTTTCTAATGATACGAGTTTGTATCCTCATATGT  
 ATGCCAGAGCATAACACTTTAAAAACCAAGAGGACATTATTTTGTTCAGGGATCGCTTTGATGGTTA  
 TGTATTCCTTGACAATAAAGGTCAGGAATATCCCGCTATAGTAGAATTTGCACCTTTTCAAAAAGCTGCA  
 AAAAAGAAGACTAAGAAAAGAGATACCAAAGTCGGGACTATCGATGATGATCCAGAATATAGAAAGTTTT  
 TGGAAAGTTATGCCACAGATAATGAGAAAATGACATCTACTCCAGAGACTGCTAGAGGAAATAGAAGC  
 AAAAATAGAAATTAATAGCTAAAAAGACAACCCCACTTTTGTAGCTTCTGAAAAACAAGCAGAGAATG  
 AGAGAAGAAAAGAGAGAAGAAAGGAGGAGAGAGAAAATAGAAAAGAAAAGACAAAAGAGAAGAGAGGGA  
 GGAAATGGAAAGAAGAAGAGAAAACGAAAAGGAAAGATATAGAAAAGCTAAAGAAGATAGACAGAATTC  
 AGAAAAGGACAAATTAAGGATGAACCAAAGATTAAGGTACACAGGTTTCTGTTACAAGCTGTGAATCAG  
 AAAATCTGCTCAAGAAGCCAGAAAAGGAGATGAAAAGAATTGGACAAAAGAGAAAAGCCAAGAAAT  
 TGGACAAAAGAGAATCTCAGTGATGAAAGAGCCAGTGGCAAAAGTTGTACATTGCCAAGCGTTCTGATAG  
 CGAACTTAAAGATGAAAACCAAAGAGACCTGAAGATGAGAGCGGCAGAGACTATAGGGAGAGGGAACGG  
 GAATATGAACGAGATCAGGAGCGCATACTTCGAGAAAAGAGAGAGGCTGAAGCGGCAAGAAGAAGAGCGCC  
 GTAGGCAGAAGGAGCGCTATGAGAAAAGAGAAGACTTTTTAAGAGAAAAGAAGAATAAAGAAAAGAGAA  
 AGACACACTTCGGGATAAAGGAAAAGAAGGCTGAAAGTACAGAATCAATAGGCAGCTCAGAAAAAACTGAA  
 AAGAAAAGAAGAAGTGGTCAAGAGAGATCGAATAAGAAAACAAGGATCGTCCAGCGATGCAGCTTTACCAAC  
 CAGGAGCTCGAAGCCGAAATCGACTCTGTCCCCCTGATGACAGCACCAAGTCTGGAGATTCAGCAGCAGA  
 AAGGAAGCAGGAAAGTGGTATTAGCCATAGAAAAGAAGGAGGAGAGGAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG221466 representing NM\_080632  
 Red=Cloning site Green=Tags(s)

MKEEKEHRPKEKRVTLTPAGATGSGGGTSGDSSKGEDKQDRNKEKKEALSKVVIRRLPPTLTKEQLQEHL  
 LQPMPEHDYFEFFSNDTSLYPHMYARAYINFKNQEDIILFRDRFDGYVFLDNKGQEYPAIVEFAPFQKAA  
 KKKTKKRDTKVGITDDPEYRKFLSYATDNEKMTSTPETLLEEIEAKNRELIAKKTTPLLSFLKKNQRM  
 REEKREERRRREIERKQREERRRQWKEEERKRKRDIEKLLKIDRIPERDKLKDEPKIKVHRFLLQAVNQ  
 KNLLKKPEKGDEKELDKREKAKKLDKENLSDERASGQSCTLPKRSSELKDEKPKRPEDESGRDYRERER  
 EYERDQERILRERERLKRQEERRRQKERYEKEKTFKRKEEEMKKEKDTLRDKGKKAESTESIGSSEKTE  
 KKEEVVVRDRIRNKDRPAMQLYQPGARSNRNLCPPDDSTKSGDSSAERKQESGISHRKEGEGE

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_080632

**ORF Size:** 1449 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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:** [NM\\_080632.3](#)

**RefSeq Size:** 2381 bp

**RefSeq ORF:** 1452 bp

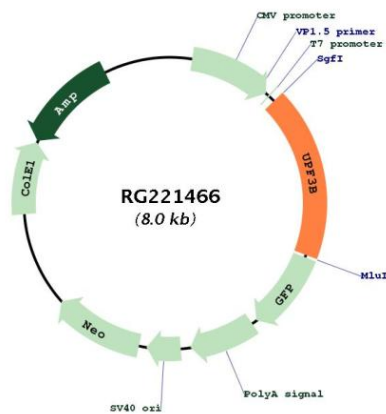
**Locus ID:** 65109

**UniProt ID:** [Q9BZ17](#)

**Cytogenetics:** Xq24

**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 X. Two splice variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG221466