

## Product datasheet for MC224119

### Upf2 (NM\_001081132) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Upf2 (NM_001081132) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Upf2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224119 representing NM_001081132 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCCAGCTGAGCGTAAAAAGTCAGCAAGTATGGAAGAAAAGAATCTTTACTAAACAACAGGAAAAAG  
ACTGCAGTGAGAGGCGGCCAGTGCAGCAAGGAGAAACCAAGGGACGACCTCAAGTCACTGCCAAGAA  
GGAGGTCAGTAAGTCCCAGAAGACAAAAAGAAGAGACTGGAAGAAGATAAGAGAAAAAGGAAGCAAG  
GAACGCAAGAAAAAGAGGAAGAGAAGGTGAAGGCAGAGGAAGAGTTAAAGAAAGGAAGGAAGAAAA  
AGAAGAAACAGGAAGAGGAAGAGAGGAAAAAGCAGGAGGAGCAGGCCAAGCGGCAGCAGGAAGAAGCGGC  
TGCTCAGCTGAAAGAGAAAGAAGTCTCTTCAGCTTCATCAGGAGGCCTGGGAACGCCATCAATTACGA  
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ATTCGAGCTTAAAGAAAAATACCGCTTTTGTCAAGAACTAAAAACAATTACAGAACAACAGAGAGACTC  
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GCAAAATTAAGCTCTCTGACGTGAAGTGTGCTGCGCACCTCTGCTCTCTTTCCAGCGGTACTCTG  
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CATTACCAAGCTAAGAAGTACTTTCGCTTTCATTGCAGAATTGACAATAGTGGGAATTTTCACTGACAAG  
GAAGGTCTTTCTTAATCTACGAACAGCTAAAAAGTATTATTAATGCTGATCGAGAAATCCACACTCATG  
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AAAGATTCTAACAAAGATGATTCAAAGAGGCAAAAGAACCAAAGGATAATAAGGAGGCATCAAGTCCTG  
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AGCTGAAGATCTTACAAAGAACTTCTTGATGAACAAGAACAAGAAGATGAAGAAGCCAGCACTGGATCT



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CATCTCAAACATCAGTAGAGTGGCTTTCCCTCCAGCAGCTGCCCAACTGTGTCAACCGAGACCTAATCGACA
AGGCAGCCATGGATTTTTGCATGAACATGAACACAAAAGGCAAACAGGAAGAAAGTTGGTGCGGGCACTCTT
CATAGTTCCTAGGCAGAGGTTGGATTTGCTACCATTTTATGCAAGATTGGTTGCTACCTTGACCCTCG
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ATTACCTCACAGATTTCAACAAGGAGAAGGAGTCTGAAGAAAATGCTGAGGTGATGATTAAGGGAGG
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AAAGCCAGCTGAGGAAAGGGCCCGCTTGGCGGTGGGGAAGGAGAGACGGAGTCTGCAGACACGATGCC
ATTTGTGATGTTAAACAAGAAAAGGCAATAAACAGCAGTAAAGATTCTCAATGTGCCCATGTATCCCAA
CTTGCTGCAAATCATTGGAACGACAACAAGCAGAACAAGAGGAGAGGATGAGGATGAAAAGCTCACCT
TAGACATCAATGAACGACAAGAGCAAGAAGATTATCAAGAAATGTTGCAGTCTTTCACAGCGCCACG
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ACGGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
    
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001081132

**Insert Size:** 3810 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).

**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\\_001081132.1](#), [NP\\_001074601.1](#)

**RefSeq Size:** 5174 bp

**RefSeq ORF:** 3810 bp

**Locus ID:** 326622

**UniProt ID:** [A2AT37](#)

**Cytogenetics:** 2 A1

**Gene Summary:** Involved in nonsense-mediated decay (NMD) of mRNAs containing premature stop codons by associating with the nuclear exon junction complex (EJC). Recruited by UPF3B associated with the EJC core at the cytoplasmic side of the nuclear envelope and the subsequent formation of an UPF1-UPF2-UPF3 surveillance complex (including UPF1 bound to release factors at the stalled ribosome) is believed to activate NMD. In cooperation with UPF3B stimulates both ATPase and RNA helicase activities of UPF1. Binds spliced mRNA.[UniProtKB/Swiss-Prot Function]