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Product datasheet for SC323999

UPF1 (NM_002911) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UPF1 (NM_002911) Human Untagged Clone
Tag:	Tag Free
Symbol:	UPF1
Synonyms:	HUPF1; NORF1; pNORF1; RENT1; smg-2; UTF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_002911.3
GGCGACGGCGGCGGTGGCGGCAGTTCCTGCTCTAGGCTGCGAGCGGCTGGCGGCTTCGAG
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TTGCCGTGGATGAGACCTCGGTGTCTGGCTACATCTACCACAAGCTGTTGGGCCACGAGG
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TTTGATTTTCGGTCAATTTAAGTTCTTTTGTCACCAAATATTAATAAACAGTTTTGACTT
CAAAAAAAAAAAAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_002911

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:
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_002911.3, NP_002902.2

RefSeq Size: 5360 bp

RefSeq ORF: 3357 bp

Locus ID: 5976

UniProt ID: Q92900

Cytogenetics: 19p13.11

Protein Families: Druggable Genome

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. 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 is located only in the cytoplasm. When translation ends, it interacts with the protein that is a functional homolog of yeast Upf2p to trigger mRNA decapping. Use of multiple polyadenylation sites has been noted for this gene. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]
Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. It encodes isoform 2, which is shorter than isoform 1.