

Product datasheet for **RG239991**

UPF1 (NM_001297549) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UPF1 (NM_001297549) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UPF1
Synonyms:	HUPF1; NORF1; pNORF1; RENT1; smg-2; UTF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG239991 representing NM_001297549. Blue=ORF Red=Cloning site Green=Tag(s)

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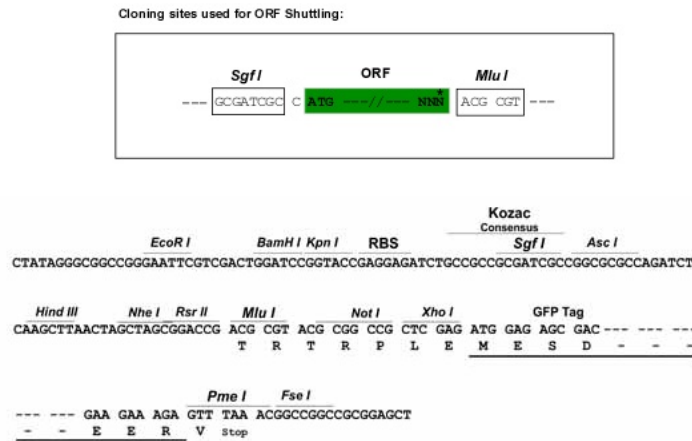
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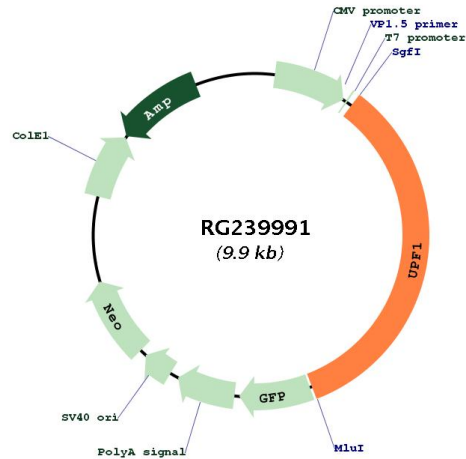
Protein Sequence: >Peptide sequence encoded by RG239991
 Blue=ORF Red=Cloning site Green=Tag(s)

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Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001297549

ORF Size: 3387 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).

RefSeq: [NM_001297549.2](#)

RefSeq Size: 5395 bp

RefSeq ORF: 3390 bp

Locus ID: 5976

UniProt ID: [Q92900](#)

Cytogenetics: 19p13.11

Protein Families: Druggable Genome

MW: 124.8 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. 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]