

Product datasheet for RC215944L4

UPF2 (NM_080599) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: UPF2 (NM_080599) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: UPF2

Synonyms: HUPF2; RENT2; smg-3

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC215944).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_080599

ORF Size: 3816 bp



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UPF2 (NM_080599) Human Tagged Lenti ORF Clone - RC215944L4

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

NM 080599.1, NP 542166.1 RefSeq:

RefSeq Size: 5387 bp RefSeq ORF: 3819 bp Locus ID: 26019 UniProt ID: Q9HAU5 Cytogenetics: 10p14

MW: 147.8 kDa

Gene Summary: This gene encodes a protein that is part of a post-splicing multiprotein complex involved in

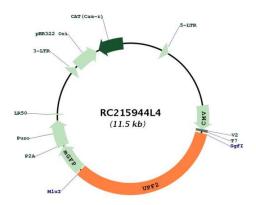
both mRNA nuclear export and mRNA surveillance. mRNA surveillance detects exported mRNAs with truncated open reading frames and initiates nonsense-mediated mRNA decay (NMD). When translation ends upstream from the last exon-exon junction, this triggers NMD to degrade mRNAs containing premature stop codons. This protein is located in the

perinuclear area. It interacts with translation release factors and the proteins that are functional homologs of yeast Upf1p and Upf3p. Two splice variants have been found for this

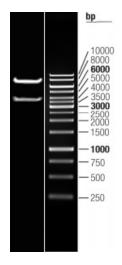
gene; both variants encode the same protein. [provided by RefSeq, Jul 2008]



Product images:



Circular map for RC215944L4



Double digestion of RC215944L4 using Sgfl and Mlul $\,$