

Product datasheet for **SC320259**

RRP4 (EXOSC2) (NM_014285) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RRP4 (EXOSC2) (NM_014285) Human Untagged Clone
Tag:	Tag Free
Symbol:	RRP4
Synonyms:	hRrp4p; p7; RRP4; Rrp4p; SHRF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_014285.4
 AGATGGCGATGGAGATGAGGCTTCCAGTGGCTCGCAAGCCTTTAGCGAGAGACTGGGCC
 GCGACACTAAGAAACATCTAGTGGTGCCGGGGATACAATCACTACGGACACAGGATTCA
 TGCGGGGCCATGGAACGTATATGGGAGAAGAGAAGCTCATTGCATCTGTTGCTGGCTCTG
 TGGAGAGAGTAAACAAGTTGATCTGTGTGAAAGCTTTGAAAACAGATACATTGGTGAAG
 TAGGAGACATCGTAGTGGGACGAATCACAGAGGTTCAACAGAAGAGGTGGAAGGTGGAGA
 CCAACTCAGGCTGGATTGCGTCTTCTGCTCTCGTCCATGAACCTTCTGGAGGAGAGC
 TGAGGAGAAGATCTGCAGAAGATGAGCTTGAATGAGAGGTTTCTTACAGGAAGGGGACC
 TTATCAGTGCTGAGGTCCAGGCAGTGTTCTCTGACGGAGCTGTCTCTTTGCACACAGGA
 GCCTGAAATATGGAAAAGTAGGTGAGGGGTTTTGGTCCAGGTTTCCCCCTCCCTGGTGA
 AACGGCAGAAGACCCACTTTTCATGATTTGCCATGTGGTGCCTCAGTGATTCTCGTAACA
 ACGGCTTCATCTGGATTTACCCAACACCTGAGCACAAGAAGAGGAAGCAGGGGGCTTCA
 TTGCAAACCTGGAGCCTGTCTCTTCTGCTGATCGAGAGGTGATATCCCGGCTTCGAACT
 GCATCATCTCGTGGTAACTCAGAGGATGATGCTGTATGATACCAGCATCCTGTACTGCT
 ATGAAGCATCCCTTCCACATCAGATCAAAGACATCTTAAAGCCAGAAATAATGGAGGAGA
 TTGTGATGGAAACACGCCAGAGGCTTTTGAACAGGAGGATAAAGAGGTGCTCCAGAAG
 CACGGGACTGTGACCTTGCAGGAGTGAAGACTGTGATGTGTGGTCCCCATATGTGGCTC
 AGCAAAGACTCGAGAGATCATCCCTTTGTCTGCATTGACGGCCCTGTGACGGCCTCCAGC
 CCACAGGCCTGCTTCTCCTGTCTAACACCAAGCCTGGGTGGCAGATGAACAGTGTCTC
 CTTGGGTTGCCAGCTGAGTCCCGGTATTAGGGAATAGTTTCAGCTCTTTCAAAGTGCACA
 GTGTTACAGTCGAATGGGCTCCCATCCTGGAATAATATGGAGAATCCTTTGTCTTCCACT
 CACTGTCAATCACAAGGCACAGTGCCCATGAAATTGCCCAATAGAAAACATGGCATCC
 CTGACCTCAAATGGTCTGTTTTGGCCTCCATTCCTATATCCTTTAAATGACTGAGAATG
 CAGCTGGTAAAGTTGGAAGAATAAAGTTAACCAAGCAGGCCAGGCACGGTGGCTCACGCC
 TATAATCCAGCACTTAGGGAGGCCAAGGCGGGCAGATCACCTGAGGTCAATAGTTCGAG
 ACCAGCCTGGCCAACAAGGTGAAACCCCATCTCTACTAAAAATACAAAAAATTAGCCAGG
 TGTGGTGGTGTGCACCTGTAGTCCAGCTATTTGGGAGGCTGAGGTGGGAGAATCACTTG
 AACCTGGGAGGCGGAGGTTGCAGTGAAGTGCAGTGAATCGCGTACCACACTCCAGCCTGGTGA
 CAGAGCGAGACTGTGTTCAAAGAAAAAAAAAAAAACAAGCAGCCTTTTGTGGTTGGAAT
 CTGATTTTCTGTTGCGTGTCTTGTAGCCATAGATGTGATTATGTCCACACCGGGCTGC
 CTTAATCTGCTCCTTGGAGAGTGACTTGTAAAGATGCTGAATTATTCATGATAATACAG
 TGAATGTTCTGGTCCATGTACTCAGATAAACATGAAGAAAATAAGCAAAGAAAAATGGA
 GACTGGGAAAGCAAAGCTGTTTTATCCTATAATTGAAGTAGTGTGGAGCATAAATTGT
 GGATGATTCAGAGTTAAAGATAAAAAGACGCCAGAGTTCTCGCTGAAGAATGTGAGAAA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_014285

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_014285.4](#), [NP_055100.2](#)

RefSeq Size: 2001 bp

RefSeq ORF: 882 bp

Locus ID: 23404

UniProt ID: [Q13868](#)

Cytogenetics: 9q34.12

Protein Pathways: RNA degradation

Gene Summary: Non-catalytic component of the RNA exosome complex which has 3'->5' exoribonuclease activity and participates in a multitude of cellular RNA processing and degradation events. In the nucleus, the RNA exosome complex is involved in proper maturation of stable RNA species such as rRNA, snRNA and snoRNA, in the elimination of RNA processing by-products and non-coding 'pervasive' transcripts, such as antisense RNA species and promoter-upstream transcripts (PROMPTs), and of mRNAs with processing defects, thereby limiting or excluding their export to the cytoplasm. The RNA exosome may be involved in Ig class switch recombination (CSR) and/or Ig variable region somatic hypermutation (SHM) by targeting AICDA deamination activity to transcribed dsDNA substrates. In the cytoplasm, the RNA exosome complex is involved in general mRNA turnover and specifically degrades inherently unstable mRNAs containing AU-rich elements (AREs) within their 3' untranslated regions, and in RNA surveillance pathways, preventing translation of aberrant mRNAs. It seems to be involved in degradation of histone mRNA. The catalytic inactive RNA exosome core complex of 9 subunits (Exo-9) is proposed to play a pivotal role in the binding and presentation of RNA for ribonucleolysis, and to serve as a scaffold for the association with catalytic subunits and accessory proteins or complexes. EXOSC2 as peripheral part of the Exo-9 complex stabilizes the hexameric ring of RNase PH-domain subunits through contacts with EXOSC4 and EXOSC7. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.