

Product datasheet for SC213734

RRP4 (EXOSC2) (NM_014285) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	RRP4 (EXOSC2) (NM_014285) Human 3' UTR Clone
Symbol:	RRP4
Synonyms:	hRrp4p; p7; RRP4; Rrp4p; SHRF
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_014285
Insert Size:	1148 bp
Insert Sequence:	>SC213734 3'UTR clone of NM_014285 The sequence shown below is from the reference sequence of NM_014285. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAGCGATCGCC
CGCCAGAGGCTTTTGGAACAGGAGGGATAAGGAGGTGCTCCAGAAGCACGGGACTGTGGACCTTGCAGG
AGTGAAGACTGTGATGTGTGGTCCCATATGTGGCTCAGCAAAGACTCGAGAGATCATCCCTTTGTCTG
CATTGACGGCCCTGTGACGGCCTCCAGCCACAGGCCTGCTTTCTCTGTCTAACACCAAGCCTGGGT
GGCAGATGAACAGTGCTTCTTGGGTTGCCAGCTGAGTCCGGTATTAGGGAATAGTTTCAGCTCTTTC
AAAGTGCACAGTGTTACAGTCAATGGGCTCCCATCTGGAATAATATGGAGAATCCTTTGTCTCCAC
TCACTGTCAATTCACAAGGCACAGTGCCCATGAAATTGCCCAATAGAAAACATGGCATCCCTGACCTC
CAAATGGTCTGTTTTGGCCTCCATTCTATATCTTTAAATGACTGAGAAATGCAGCTGGTAAAGTTGGA
AGAATAAAGTTAACCAAGCAGGCCAGGCACGGTGGCTCACGCCTATAATCCCAGCACTTAGGGAGGCCA
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GTGGGAGAATCACTTGAACCTGGGAGCGGAGGTTGCAGTGAGCTGAAATCGCGTACCACACTCCAGCC
TGGGTGACAGAGCGAGACTGTGTTTCAAAGAAAAAAAAAAAAACAAGCAGCCTTTTGGCTTGGTTGAAATC
GATTTTCTGTTGCGTGTTCTTGTAGCCATAGATGTGATTATGTCCACACCGGGCTGCCTTAATCTGTC
CTGCTTGAGAGTGACTTGAAGATGCTGAATTATTCATGATAATACAGTGAATGTTCTGGTCCATGT
ACTCAGATAAACATGAAGAAAATAAGCAAAGAAAAATGGAGACTGGGAAAGCAAAGCTGTTTTATCCT
ATAATTGAAGTAGTGTGGAGCATTAACTTGTGGATGATTCAGAGTAAAAGATAAAAAGACGCCAGAGT
TCTCGTGAAGAATGTGAGAATTCCTGTGCATTGTTTTTCTGA
ACGCGTAAAGCGCCGCGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCACCGCCGCTTCTATGAAAGG

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Restriction Sites:	Sgfl-Mlul
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_014285.7
Summary:	<p>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]</p>
Locus ID:	23404
MW:	43.3