

Product datasheet for **SC334524**

RNA terminal phosphate cyclase like 1 (RCL1) (NM_001286699) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNA terminal phosphate cyclase like 1 (RCL1) (NM_001286699) Human Untagged Clone
Tag:	Tag Free
Symbol:	RNA terminal phosphate cyclase like 1
Synonyms:	RNAC; RPCL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001286699, the custom clone sequence may differ by one or more nucleotides

ATGCCTCCCGAGGAGGAGGCGAAGTGGTTTTCTCATGTCTGTGAGGAAGGTCTGAAGCCATTCAAC
 TCACAGATCCAGGAAAAATCAAACGTATTAGAGGAATGGCGTACTCTGTACGTGTGTACCTCAGATGGC
 GAACCGGATTGTGGATTCTGCAAGGAGCATCCTCAACAAGTTCATACCTGATATCTATTTACACAGAT
 CACATGAAAGGAGTCAACTCTGGGAAGTCTCCGGGCTTTGGGTTGTCACTGGTTGCTGAGACCACCACTG
 GCACCTTCCTCAGTGTGAACTGGCCTCAACCCCAAGGCCAGGGAGCAGCAGTACTTCCAGAGGACCT
 TGGCAGGAACTGTGCCCCGCTGCTGCTGGAGGAAATCTACAGGGTGGATGCGTAGACTCGACCAACCAA
 AGCCTGGCGCTACTACTCATGACCCTTGGACAGCAGGATGTTTCAAAGTCCTGCTAGGCCCTCTCTCTC
 CCTACACGATAGAATTTTTCGGCATTTGAAGAGCTTTTCCAGATTATGTTTAAATTGAAACCAAGCC
 ATGTGGTGAAGAACTCAAGGGTGGGGATAAAGTCTGATGACCTGTGTTGGCATTGGTTTCTCCAACCTT
 AGCAAGACCCTCAAGTGA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001286699
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).
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).


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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_001286699.1](#), [NP_001273628.1](#)

RefSeq Size: 1950 bp

RefSeq ORF: 648 bp

Locus ID: 10171

UniProt ID: [Q9Y2P8](#)

Cytogenetics: 9p24.1

Gene Summary: Does not have cyclase activity. Plays a role in 40S-ribosomal-subunit biogenesis in the early pre-rRNA processing steps at sites A0, A1 and A2 that are required for proper maturation of the 18S RNA (By similarity).[UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant (2) lacks two alternate exons in the 5' region and it thus differs in its 5' UTR and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (b) is shorter at the N-terminus, compared to isoform a. Both variants 2 and 3 encode isoform b.