

Product datasheet for **RC200306**

RNA terminal phosphate cyclase like 1 (RCL1) (NM_005772) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNA terminal phosphate cyclase like 1 (RCL1) (NM_005772) Human Tagged ORF Clone
Tag:	Myc-DDK
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)
ORF Nucleotide Sequence:	>RC200306 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGACTCAGGCGCACTCCCTCAGCTACGCAGGGTGCAACTTCTTGCGCCAACGTCTGGTCTGTCTA
 CCCTGAGCGGGCGCCCGTCAAATCCGAAAGATTCGGGCCAGAGACGACAACCCGGGCCTCCGAGATTT
 TGAAGCCAGCTTCATAAGGCTATTGGACAAAATAACGAATGGTTCTCGAATTGAAATAAACCAACAGGA
 ACAACCTTATATTATCAGCCTGGCCTCCTGTATGGTGGATCTGTGGAACATGACTGTAGCGTCCTTCGTG
 GCATTGGGTATTACCTGGAGAGTCTTCTTGCTTGGCTCCATTTATGAAGCACCCGTTAAAAATAGTTCT
 ACGAGGAGTGACCAATGATCAGGTTGACCTTCAGTTGATGTTCTTAAGGCAACAGCACTCCCTTTGTTG
 AAACAATTTGGGATTGATGGTGAATCATTTGAAGTGAAGATTGTGCGACGGGGAATGCCTCCCGGAGGAG
 GAGGCGAAGTGGTTTTCTCATGTCTGTGAGGAAGGTCTTGAAGCCCATTCAACTCACAGATCCAGGAAA
 AATCAAACGTATTAGAGGAATGGCGTACTCTGTACGTGTGCACCTCAGATGGCGAACCGGATTGTGGAT
 TCTGCAAGGAGCATCCTCAACAAGTTCATACCTGATATCTATTTACACAGATCACATGAAGGAGTCA
 ACTCTGGGAAGTCTCCGGGCTTTGGGTTGTCACTGGTTGCTGAGACCACCACTGGCACCTTCCTCAGTGC
 TGAAGTGGCCTCAACCCCGAGGCCAGGGAGCAGCAGTACTTCCAGAGGACCTTGGCAGGAACTGTGCC
 CGGCTGCTGCTGGAGGAAATCTACAGGGGTGGATGCGTAGACTCGACCAACCAAGCCTGGCGTACTAC
 TCATGACCTTGGACAGCAGGATGTTTCCAAAGTCTGCTAGGCCCTCTCTCTCCCTACACGATAGAATT
 TTTGCGGCATTTGAAGAGCTTTTCCAGATTATGTTTAAATGAAACCAAGCCATGTGGTGAAGAACTC
 AAGGGTGGGGATAAAGTCTGATGACCTGTGTTGGCATTGGTTTCTCAACCTTAGCAAGACCCTCAAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA


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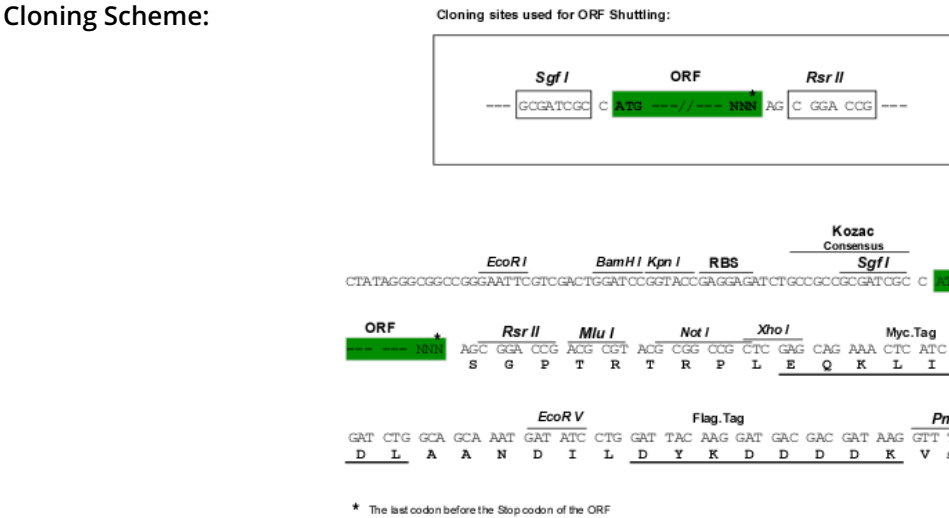
Protein Sequence: >RC200306 protein sequence
 Red=Cloning site Green=Tags(s)

MATQAHSLSYAGCNFLRQRLVLSTLSGRPVKIRKIRARDDNPGLRDFEASFIRLLDKITNGSRIEINQTG
 TTLYYQPGLLYGGSVEHDCSVLRGIGYYLESLLCLAPFMKHPLKIVLRGVTNDQVDSVDVLKATALPLL
 KQFGIDGESFELKIVRRGMPPGGGGEVVFSCPVRKVLKPIQLTDPGKIKRIRGMAYSVRVSPQMANRIVD
 SARSILNKFIPDIYIYTDHMKGVNSGKSPGFGLSLVAETTSGLTFLSAELASNPQGGAAVLPEDLGRNCA
 RLLLEEIYRGGCVDSSTNQSLALLMTLGGQDVSKVLLGPLSPYTIEFLRHLKSFFQIMFKIETKPCGEEL
 KGGDKVLMTCVGIGFSNLSKTLK

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6617_e07.zip

Restriction Sites: SgfI-RsrII



ACCN: NM_005772

ORF Size: 1119 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).

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.

RefSeq: [NM_005772.5](#)

RefSeq Size: 2198 bp

RefSeq ORF: 1122 bp

Locus ID: 10171

UniProt ID: [Q9Y2P8](#)

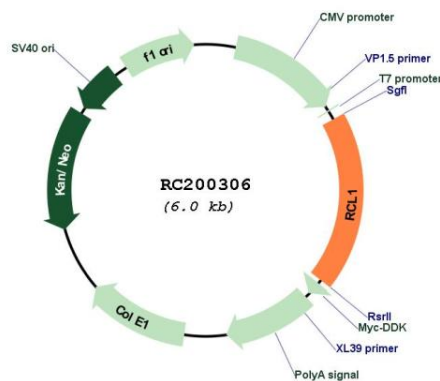
Cytogenetics: 9p24.1

Domains: RTC

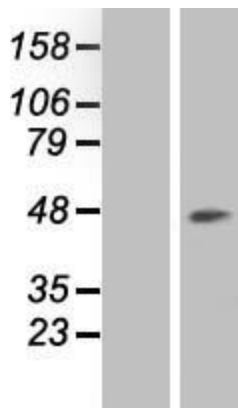
MW: 40.8 kDa

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]

Product images:



Circular map for RC200306



Western blot validation of overexpression lysate (Cat# [LY417062]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200306 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).