

Product datasheet for **RG200306**

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:	TurboGFP
Symbol:	RNA terminal phosphate cyclase like 1
Synonyms:	RNAC; RPCL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200306 representing NM_005772 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCGACTCAGGCGCACTCCCTCAGCTACGCAGGGTGCAACTTCTTGCGCCAACGTCTGGTCCTGTCTA
 CCCTGAGCGGGCGCCCGTCAAATCCGAAAGATTCGGGCCAGAGACGACAACCCGGGCCTCCGAGATTT
 TGAAGCCAGCTTCATAAGGCTATTGGACAAAATAACGAATGGTTCTCGAATTGAAATAAACCAAACAGGA
 ACAACCTTATATTATCAGCCTGGCCTCCTGTATGGTGGATCTGTGGAACATGACTGTAGCGTCCTTCGTG
 GCATTGGGTATTACCTGGAGAGTCTTCTTGCTTGGCTCCATTTATGAAGCACCCGTTAAAAATAGTTCT
 ACGAGGAGTGACCAATGATCAGGTTGACCTTCAGTTGATGTTCTTAAGGCAACAGCACTCCCTTTGTTG
 AAACAATTTGGGATTGATGGTGAATCATTTGAAGTGAAGATTGTGCGACGGGGAATGCCTCCCGGAGGAG
 GAGGCGAAGTGGTTTTCTCATGTCTGTGAGGAAGGTCTTGAAGCCCATCAACTCACAGATCCAGGAAA
 AATCAAACGTATTAGAGGAATGGCGTACTCTGTACGTGTGCACCTCAGATGGCGAACCGGATTGTGGAT
 TCTGCAAGGAGCATCCTCAACAAGTTCATACCTGATATCTATTTACACAGATCACATGAAGGAGTCA
 ACTCTGGGAAGTCTCCGGGCTTTGGGTTGTCACTGGTTGCTGAGACCACCACTGGCACCTTCCTCAGTGC
 TGAAGTGGCCTCAACCCCGAGGCCAGGGAGCAGCAGTACTTCCAGAGGACCTTGGCAGGAACTGTGCC
 CGGCTGCTGCTGGAGGAAATCTACAGGGGTGGATGCGTAGACTCGACCAACCAAGCCTGGCGCTACTAC
 TCATGACCCTTGGACAGCAGGATGTTTCCAAAGTCTGCTAGGCCCTCTCTCTCCCTACACGATAGAATT
 TTTGCGGCATTTGAAGAGCTTTTCCAGATTATGTTTAAATGAAACCAAGCCATGTGGTGAAGAACTC
 AAGGGTGGGGATAAAGTCTGATGACCTGTGTTGGCATTGGTTTCTCAACCTTAGCAAGACCCTCAAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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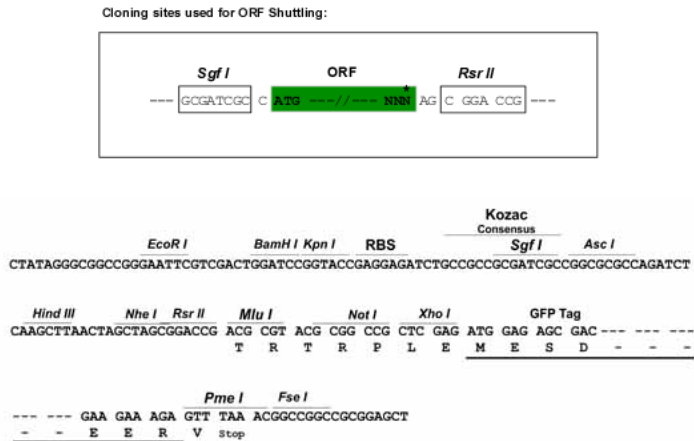
Protein Sequence: >RG200306 representing NM_005772
 Red=Cloning site Green=Tags(s)

MATQAHSLSYAGCNFLRQRLVLSTLSGRPVKIRKIRARDNPNGLRDFEASFIRLLDKITNGSRIEINQTG
 TTLYYQPLL YGGSVEHDCSVLRGIGYYLESLLCLAPFMKHPLKIVLRGVTNDQVDPVDVLKATALPLL
 KQFGIDGESFELKIVRRGMPPGGGGEVVFSCPVRKVLKPIQLTDPGKIKIRGMAYSVRVSPQMANRIVD
 SARSILNKFIPDIYIYTDHMKGVNSGKSPGFGLSLVAETTSGLTFLSAELASNPQQGAAVLPEDLGRNCA
 RLLLEEIYRGGCVDSTNQSLALLMTLGQQDVSKVLLGPLSPYTIIEFLRHLKSFFQIMFKIETKPCGEEL
 KGGDKVLMTCVGIGFSNLSKTLK

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



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.

RefSeq: [NM_005772.5](#)

RefSeq Size: 2064 bp

RefSeq ORF: 1122 bp

Locus ID: 10171

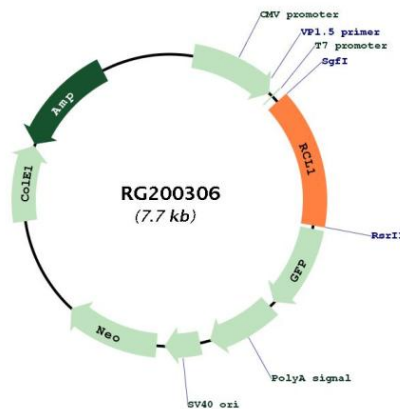
UniProt ID: [Q9Y2P8](#)

Cytogenetics: 9p24.1

Domains: RTC

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 RG200306