

## Product datasheet for **RC225577**

### RTCD1 (RTCA) (NM\_001130841) Human Tagged ORF Clone

#### Product data:

|                           |                                                                                |
|---------------------------|--------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                            |
| Product Name:             | RTCD1 (RTCA) (NM_001130841) Human Tagged ORF Clone                             |
| Tag:                      | Myc-DDK                                                                        |
| Symbol:                   | RTCD1                                                                          |
| Synonyms:                 | RPC; RTC1; RTCD1                                                               |
| Mammalian Cell Selection: | Neomycin                                                                       |
| Vector:                   | pCMV6-Entry (PS100001)                                                         |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                           |
| ORF Nucleotide Sequence:  | >RC225577 representing NM_001130841<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGGGCGCGGGTGGAGGTCGATGGCAGCATCATGGAAGGGGCGGCCAGATCCTGAGAGTCTCTA  
 CGGCCTTGAGCTGTCTCCTAGGCCTCCCTCGCGGGTGCAGAAGATCCGAGCCGGCCGAGCAGCCAGG  
 CCTGAGTTCTGGAGGCTGGAAGTCCAAGATCAAGGTCCTGACAAGGCCTCAACATTTATCTGGACTGGAA  
 ATGATTCGAGATTTGTGTGATGGCAACTGGAGGGGCGAGAAATTGGCTCAACAGAAATAACCTTTACAC  
 CAGAGAAGATCAAAGGTGAATCCACACAGCAGATACCAAGACAGCAGGGAGTGTGTGCCTCTTGATGCA  
 GGTCTCAATGCCGTGTGTCTCTTTGCTGCTTCTCCATCAGAATTCATTTGAAAGGTGGAATAATGCT  
 GAAATGGCACCACAGATCGATTATACAGTGATGGTCTTCAAGCCAATTGTTGAAAAATTTGGTTTCATAT  
 TTAATTGTGACATTAAACAAGGGGATATTACCAAAAAGGGGGTGGTGAAGTGATTGTTCAAGTGTCACC  
 AGTTAAACAATTGAACCTATAAATTTAACTGAGCGTGGCTGTGTGACTAAGATATATGGAAGAGCTTTC  
 GTTGCTGGTGTGTTTGCCATTTAAAGTAGCAAAAGATATGGCAGCGGCAGCAGTTAGATGCATCAGAAAGG  
 AGATCCGGGATTTGTATGTTAACATCCAGCCTGTTCAAGAACCTAAAGACCAAGCATTGGCAATGGAAA  
 TGAATAATAATTATTGCTGAGACCTCCACTGGCTGTTTGTGTTGCTGGATCATCGCTTGGTAAACGAGGT  
 GTAAATGCAGACAAAGTTGGAATTGAAGCTGCCGAAATGCTATTAGCAAACTTAGACATGGTGGTACTG  
 TGGATGAGTATCTGCAAGACCAGCTGATTGTTTTTCATGGCATTAGCCAATGGAGTTTCCAGAATAAAAAAC  
 AGGACCAGTTACACTCCATACGCAAAACCGCATACATTTTGTGTAACAAATAGCAAGGCTAAATTTATT  
 GTGAAGAATCAGAAGATGAAGAAGACGCCGCTAAAGATACTTATATTATTGAATGCCAAGGAATTGGGA  
 TGACAAATCCAAATCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:** >RC225577 representing NM\_001130841  
 Red=Cloning site Green=Tags(s)

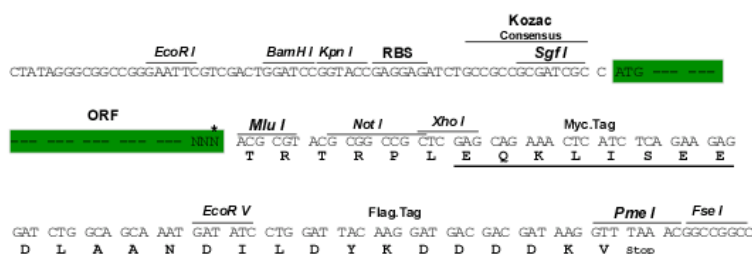
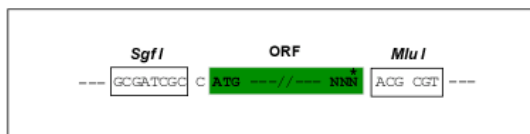
MAGRPEVDGSGIMEGGGQILRVSTALSCLLGLPSRVQKIRAGRSTPGLSSGGWKS KIKVLTRPQHLSGLE  
MIRDLCDGQLEGAEIGSTEITFTPEKIKGGIHTADTKTAGSVCLLMQVSMPCVLF AASPSELHLKGGTNA  
EMAPQIDYTVMFVKPIVEKGFIFNCDIKTRGYPKGGGEVIVRMPVKQLNPINLTERGCVTKIYGRAF  
VAGVLPFKVAKDMAAAAVRCIRKEIRDLYVNIQPVQPEPKDQAFNGNGIIIIAETSTGCLFAGSSLGKRG  
VNADKVGIEAAEMTLANLRHGGTVDEYLDQDLIVFMALANGVSRIKTGPVTLHTQTAIHFAEQIAKAKFI  
YKKSEDEEDAADKTYIFECOGIDMNTNPNL

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

### Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM 001130841

ORF Size: 1137 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\\_001130841.1](#), [NP\\_001124313.1](#)

**RefSeq ORF:** 1140 bp

**Locus ID:** 8634

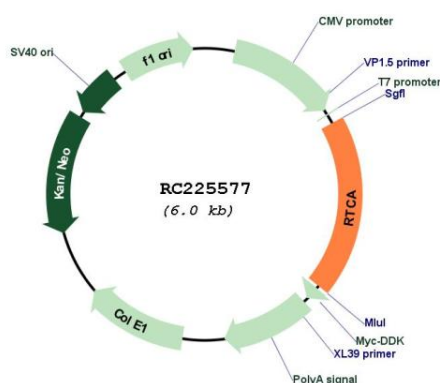
**UniProt ID:** [Q00442](#)

**Cytogenetics:** 1p21.2

**MW:** 40.5 kDa

**Gene Summary:** This gene encodes a member of the RNA 3'-phosphate cyclase family. The encoded protein plays a role in RNA metabolism by catalyzing the ATP-dependent conversion of the 3'-phosphate of RNA substrates to a 2',3'-cyclic phosphodiester. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2012]

## Product images:



Circular map for RC225577