

## Product datasheet for SC313149

### RTCD1 (RTCA) (NM\_003729) Human Untagged Clone

#### Product data:

|                           |                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                     |
| Product Name:             | RTCD1 (RTCA) (NM_003729) Human Untagged Clone                                           |
| Tag:                      | Tag Free                                                                                |
| Symbol:                   | RTCD1                                                                                   |
| Synonyms:                 | RPC; RTC1; RTCD1                                                                        |
| Mammalian Cell Selection: | Neomycin                                                                                |
| Vector:                   | pCMV6-Entry (PS100001)                                                                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                                    |
| Fully Sequenced ORF:      | >SC313149 representing NM_003729.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**  
 ATGGCGGGCGCGGGTGGAGGTGCATGGCAGCATCATGGAAGGGGGCGGCCAGATCCTGAGAGTCTCT  
 ACGGCCTTGAGCTGTCTCCTAGGCCTCCCCTTGCGGGTGCAGAAGATCCGAGCCGGCCGGAGCACGCCA  
 GGCCTGAGGCCTCAACATTTATCTGGACTGAAATGATTCGAGATTTGTGTGATGGGCAACTGGAGGGG  
 GCAGAAATTGGCTCAACAGAAATAACCTTTACACCAGAGAAGATCAAAGGTGGAATCCACACAGCAGAT  
 ACCAAGACAGCAGGGAGTGTGTGCCTCTTGATGCAGGTCTCAATGCCGTGTGTTCTCTTTGCTGCTTCT  
 CCATCAGAACTTCATTTGAAAGGTGGAATAATGCTGAAATGGCACCACAGATCGATTATACAGTGATG  
 GTCTTCAAGCCAATTGTTGAAAAATTTGGTTTCATATTTAATTGTGACATTAAACAAGGGGATATTAC  
 CCAAAAGGGGGTGGTGAAGTGATTGTTCTGAATGTCAACAGTAAACAATTGAACCTATAAAATTTAACT  
 GAGCGTGGCTGTGTGACTAAGATATATGGAAGAGCTTTCGTTGCTGGTGTGTTTGCCATTTAAAGTAGCA  
 AAAGATATGGCAGCGGCAGCAGTTAGATGCATCAGAAAGGAGATCCGGGATTTGTATGTTAACATCCAG  
 CCTGTTCAAGAACCTAAAGACCAAGCATTTGGCAATGGAATGGAATAATAATTATTGCTGAGACCTCC  
 ACTGGCTGTTTGTGCTGGATCATCGCTTGGTAAACGAGGTGTAATGCAGACAAAGTTGGAATTGAA  
 GCTGCCGAATGCTATTAGCAAATCTTAGACATGGTGGTACTGTGGATGAGTATCTGCAAGACCAGCTG  
 ATTGTTTTTCATGGCATTAGCCAAATGGAGTTTCCAGAATAAAACAGGACCAGTTACACTCCATACGCAA  
 ACCGCGATACATTTTGTGAACAAATAGCAAAGGCTAAATTTATTGTGAAGAAATCAGAAGATGAAGAA  
 GACGCCGCTAAAGATACTTATATTATTGAATGCCAAGGAATTGGGATGACAAATCCAAATCTA**TAG**  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

|                    |           |
|--------------------|-----------|
| Restriction Sites: | SgfI-MluI |
| ACCN:              | NM_003729 |


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|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Insert Size:</b>           | 1101 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>OTI Disclaimer:</b>        | 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).                                                                                                                                                                                                                                          |
| <b>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.                                                                                                                                                                                                                                                                                                                      |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                 |
| <b>RefSeq:</b>                | <u><a href="#">NM_003729.3</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>RefSeq Size:</b>           | 2595 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 1101 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 8634                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID:</b>            | <u><a href="#">O00442</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 1p21.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Domains:</b>               | RTC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>MW:</b>                    | 39.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary:</b>          | <p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.</p> |