

## Product datasheet for **SC319336**

### RHOC (NM\_001042679) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | RHOC (NM_001042679) Human Untagged Clone |
| Tag:                      | Tag Free                                 |
| Symbol:                   | RHOC                                     |
| Synonyms:                 | ARH9; ARHC; H9; RHOH9                    |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-AC (PS100020)                      |
| E. coli Selection:        | Ampicillin (100 ug/mL)                   |

**Fully Sequenced ORF:** >OriGene sequence for NM\_001042679.1  
 CTGGAGGCGGCGGAGCGGAAGCCTTGACTTCATCTCAGCTCCAGAGCCCGCCTCTCTTC  
 CTGCAGCCTGGGAACCTCAGCCGGTGGAGCCCCACCATGGCTGCAATCCGAAAGAAGCT  
 GGTGATCGTTGGGATGGTGCCTGTGGGAAGACCTGCCTCCTCATCGTCTTCAGCAAGGA  
 TCAGTTTTCCGGAGGTCTACGTCCCTACTGTCTTTGAGAACTATATTGCGGACATTGAGGT  
 GGACGGCAAGCAGGTGGAGCTGGCTCTGTGGGACACAGCAGGGCAGGAAGACTATGATCG  
 ACTGCGGCTCTCTCCTACCCGGACTGATGTCATCCTCATGTGCTTCTCCATCGACAG  
 CCCTGACAGCCTGAAAACATTCTGAGAAGTGGACCCAGAGGTGAAGCACTTCTGCC  
 CAACGTGCCCATCATCCTGGTGGGAATAAGAAGGACCTGAGGCAAGACGAGCACACCAG  
 GAGAGAGCTGGCCAAGATGAAGCAGGAGCCGTTCCGGTCTGAGGAAGCCGGGACATGGC  
 GAACCGGATCAGTGCCTTTGGCTACCTTGAGTGTCTCAGCCAAGACCAAGGAGGGAGTGGC  
 GGAGGTGTTTGGATGGCACTCGGGCTGGCCTCCAGGTCGCAAGAACAAGCGTCGGAG  
 GGGCTGTCCCATTCTCTGAGATCCCAAGGCCTTCTACATGCCCCCTCCCTTACAGG  
 GGTACAGAAATATCCCCCTACAACCCAGCCTCCTGAGGGCTCCATGCTGAAGGCTCCC  
 ATTTTCAGTTCCTCCTGCCAGGACTGCATTGTTTTCTAGCCCCGAGGTGGTGGCACGG  
 GCCCTCCCTCCAGCGCTCTGGGAGCCACGCCTATGCCCTGCCCTTCTCAGGGCCCTG  
 GGGATCTGCCCCCTTTGACCTTCCCCAAGGATGGTACACACCAGCACTTTATACACT  
 TCTGGCTCACAGGAAAGTGTCTGCAGTAGGGGACCCAGAGTCCCAGGCCCTGGAGTTGT  
 TTTCCGACAGGGCCTTGTCTCTCACTGCATTTGGTCAGGGGGCATGAATAAAGGCTACA  
 GGCTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

|                    |                |
|--------------------|----------------|
| Restriction Sites: | Please inquire |
| ACCN:              | NM_001042679   |



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|                               |   |
|-------------------------------|---|
| <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>                | <a href="#">NM_001042679.1</a> , <a href="#">NP_001036144.1</a>   |
| <b>RefSeq Size:</b>           | 1313 bp   |
| <b>RefSeq ORF:</b>            | 582 bp  |
| <b>Locus ID:</b>              | 389   |
| <b>UniProt ID:</b>            | <a href="#">P08134</a>  |
| <b>Cytogenetics:</b>          | 1p13.2  |
| <b>Protein Families:</b>      | Druggable Genome  |
| <b>Gene Summary:</b>          | <p>This gene encodes a member of the Rho family of small GTPases, which cycle between inactive GDP-bound and active GTP-bound states and function as molecular switches in signal transduction cascades. Rho proteins promote reorganization of the actin cytoskeleton and regulate cell shape, attachment, and motility. The protein encoded by this gene is prenylated at its C-terminus, and localizes to the cytoplasm and plasma membrane. It is thought to be important in cell locomotion. Overexpression of this gene is associated with tumor cell proliferation and metastasis. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2, and 3 encode the same protein.</p> |