

## Product datasheet for **SC127513**

### **RHOC (NM\_175744) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RHOC (NM_175744) Human Untagged Clone
Tag:	Tag Free
Symbol:	RHOC
Synonyms:	ARH9; ARHC; H9; RHOH9
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127513 sequence for NM_175744 edited (data generated by NextGen Sequencing)

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ATGGCTGCAATCCGAAAGAAGCTGGTGATCGTTGGGGATGGTGCCTGTGGGAAGACCTGC
CTCCTCATCGTCTTCAGCAAGGATCAGTTTCCGGAGGTCTACGTCCCTACTGTCTTTGAG
AACTATATTGCGGACATTGAGGTGGACGGCAAGCAGGTGGAGCTGGCTCTGTGGGACACA
GCAGGGCAGGAAGACTATGATCGACTGCGGCCTCTCTCTACCCGGACTGATGTCATC
CTCATGTGCTTCTCCATCGACAGCCCTGACAGCCTGGAAAACATTCTGAGAAGTGGACC
CCAGAGGTGAAGCACTTCTGCCCAACGTGCCCATCATCCTGGTGGGAATAAGAAGGAC
CTGAGGCAAGACGAGCACACCAGGAGAGAGCTGGCCAAGATGAAGCAGGAGCCCGTTTCGG
TCTGAGGAAGGCCGGGACATGGCGAACCGGATCAGTGCCTTTGGCTACCTTGAGTGCTCA
GCCAAGACCAAGGAGGGAGTGCGGGAGGTGTTTGAGATGGCCACTCGGGCTGGCCTCCAG
GTCCGCAAGAACAAGCGTCGGAGGGGCTGTCCCATTCTCTGA
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Clone variation with respect to NM\_175744.4



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_175744 unedited</p> <pre>TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGCAGCTGGAGGCGGCGG AGCGGAAGCCTTGACTTCATCTCAGCTCCAGAGCCCGCCCTCTCTTCTCAGCCTGGGA ACTTCAGCCGGCTGGAGCCCCACCATGGCTGCAATCCGAAAGAAGCTGGTGATCGTTGGG GATGGTGCCTGTGGGAAGACCTGCCTCCTCATCGTCTTCAGCAAGGATCAGTTTCCGGAG GTCTACGTCCCTACTGTCTTTGAGAACTATATTGCGGACATTGAGGTGGACGGCAAGCAG GTGGAGCTGGCTCTGTGGGACACAGCAGGGCAGGAAGACTATGATCGACTGCGGCCTCTC TCCTACCCGGACACTGATGTCATCCTCATGTGCTTCTCCATCGACAGCCCTGACAGCCTG CAAACATTCTGAGAAGTGCCCCACAGAGGTGAAGCACTTCTGCCCAACGCGCCCATC ATCCTGGTGGGAATAAGAAGGACCTGAGGCAAGACTAGCCCACCAGGAGAGAGCTGCC AGATGAGCAGGAGCCCGCCGCTCTGAGGAAGGCCGGTCCATGCTTAACCGGATCAGTGC CTTTGGCTAACTTGAGCGCCACCCCCACCAGGCGGGTACCGGGGAGGCGCTCCACAT CGCCCCCCTCTGCCCTCCATCACCCAGAACCCTGCACCAGGGAATGCCCTCTCCC CTCTCACTCCACGTCCTTTTCTACCCGCTCCTTCTTTCCGGGCTTCTCCATCTCCTC TTCTCCTCGTCCCTCTCGGCGACCACCGTCCGGCGGCCCCCACTTTTCCCCCGGCC TGCTCCCCCGTCTCTCTCCTCCTCCCCGCGCTATACCATCTTCCCCTCCAGTCCC CCTCTCCCTCCCCCTCCCTCTCTCCTCCTCCCCACTCGCCATATCTCCNCTCCTCC CTCCCCTCTCT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_175744 unedited</p> <pre>GTACCGCGGCCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTACGTTGGAGCCTGT AGCCTTTATTCATGCCCCCTGACCAAATGCAGTGAGAGACAGGCCCTGCCGAAAACAA CTCCAGGGGCTGGGACTCTGGGTCCCCTACTGCAGACACTTTCTGTGAGCCAGAAGTG TATAAAGTGCTGGTGTGTGACCATCCTTTGGGGAAGGTCAAAGGGGGCAAGATCCCAGG GGCCCTGAGGAAGGGCAGGGCATAGGCGTGGCTTCCACAGCGCTGGGAGGGAGGGCCGT GCCACCACCTCGGGGCTAGAAAACAATGCAGACCTGGGCAGGAGGGAAGTAAAAATGGGA GCCTTCAGCATGGAGCCCTTAGGAGGCTGGGGTGTAGGGGGATAATTTCTGTACCCCTG TGAAGGGAGGGGGCATGTAGGAAAGGCCTTGGGGATCTCAGAGAATGGGACAGCCCTCC GACGCTTGTCTTGCAGCCTGGAGGCCAGCCGAGTGGTTCATCTCAAACACCTCCCGCA CTACCTCCTTGGTCTTGGCTGAGCACTCAAGGTAGCCAAAGGCACTGATCCCGTTCCCA GTCCCCGCCTTCTCAAACCGAACGGACTACTGCTTCATCTTGGCAGCTCTCTCTGTG TGTGCTCGACTTGCACTAAGGACCTCCTTATCCCCACCAGATGATGGGCACGTTGCGG CAAACGCGCTAAACCTTTGGGTCCCCTTCTAAGAAACGCTCACAGGCCTGTCAGGTCTG TCCATGGCAGAACCACATGAGGATGACCTCATTGCCCGGTTAGCACAAAGGCCAGACCC ACCATACCTCTTTGCCCTGTTGGACCCAAAAACCCTCCACCTGTTGCCGCCCTTAGGC GCCCAAATATTTTAAACAGTTGGTCCCCGACTCCGCAAAGATCCTCTCCAGCAACGAGG GGCTTTTTTCCCGCTCCCCCCCCGAACCTATTCTTTGTTT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_175744
<b>Insert Size:</b>	1140 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>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_175744.3</a> , <a href="#">NP_786886.1</a>
<b>RefSeq Size:</b>	1116 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 (1) represents the longest transcript. Variants 1, 2, and 3 encode the same protein.</p>