

Product datasheet for **RG208751**

RHOC (NM_001042678) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RHOC (NM_001042678) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RHOC
Synonyms: ARH9; ARHC; H9; RHOH9
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG208751 representing NM_001042678
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGCAATCCGAAAGAAGCTGGTATCGTTGGGGATGGTGCCTGTGGGAAGACCTGCCTCCTCATCG
 TCTTCAGCAAGGATCAGTTTCCGGAGGTCTACGTCCTACTGTCTTTGAGAACTATATTGCGGACATTGA
 GGTGGACGGCAAGCAGGTGGAGCTGGCTCTGTGGGACACAGCAGGGCAGGAAGACTATGATCGACTGCGG
 CCTCTCTCTACCCGGACTGATGTCATCCTCATGTGCTTCTCCATCGACAGCCCTGACAGCCTGGAAA
 ACATTCCTGAGAAGTGGACCCAGAGGTGAAGCACTTCTGCCCAACGTGCCATCATCCTGGTGGGGAA
 TAAGAAGGACCTGAGGCAAGACGACACACCAGGAGAGAGCTGGCCAAGATGAAGCAGGAGCCCGTTCGG
 TCTGAGGAAGGCCGGGACATGGCGAACCAGATCAGTGCCTTTGGTACCTTGAGTGCTCAGCCAAGACCA
 AGGAGGGAGTGGCGGAGGTGTTTGAGATGGCCACTCGGGCTGGCTCCAGGTCCGCAAGAACAAGCGTCC
 GAGGGGCTGTCCATTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208751 representing NM_001042678
 Red=Cloning site Green=Tags(s)

MAAIRKKLVIVGDGACGKTCLLIVFSKDQFPEVYVPTVFENYIADIEVDGKQVELALWDTAGQEDYDRLR
 PLSYPD TDVILMCF SIDSPD SLENIPEKWTPEVKHFCPNVPIILVGNKKDLRQDEHTRRELAKMKQEPVR
 SEEGRDMANRISAFGYLECSAKTKEGVREVFEMATRAGLQVRKNKRRRRCPIIL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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_001042678.1](#), [NP_001036143.1](#)

RefSeq Size: 1346 bp

RefSeq ORF: 582 bp

Locus ID: 389

UniProt ID: [P08134](#)

Cytogenetics: 1p13.2

Protein Families: Druggable Genome

Gene Summary: 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]