

## Product datasheet for **MR228409**

### Rhoc (NM\_001291859) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rhoc (NM\_001291859) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rhoc  
**Synonyms:** AI324259; Arh9; Arhc  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR228409 representing NM\_001291859  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTGCGATCCGAAAGAAGCTGGTGATTGTGGGTGACGGTGCCTGTGGGAAGACCTGCCTCCTCATTG  
TCTTCAGCAAAGATCAGTTTCCAGAGGTCTACGTGCCTACCGTCTTTGAGAACTATATAGCCGACATCGA  
AGTGGATGGCAAGCAGGTGGAGCTGGCTCTGTGGGACACAGCTGGCAAGAAGACTACGATCGCCTGCGG  
CCTCTCTCTACCCGGACTGACGTCACTCCTCATGTGTTTCTCCATTGACAGCCCTGACAGTTTGGAAA  
ACATTCCTGAGAAGTGGACCCAGAGGTGAAGCACTTTTGTCCCAACGTGCCATCATCCTAGTGGGAA  
TAAAAAGGACCTGAGGCAAGATGAGCATACCAGGAGAGAGCTGGCCAAGATGAAACAGGACCGGTTCGA  
TCTGAGGAAGGCCGGGACATGGCAAACAGGATCAGTGCCTTTGGCTACCTCGAGTCTCGCCAAGACTA  
AGGAAGGGGTGCGGGAGGTATTTGAGATGGCCACTCGGGCGGCCACAGGTCCGGAAGAATAAGCGCCG  
GAGGGGCTGTCCATTCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR228409 representing NM\_001291859  
Red=Cloning site Green=Tags(s)

MAAIRKKLVIVGDGACGKTCLLIVFSKQDFPEVYVPTVFENYIADIEVDGKQVELALWDTAGQEDYDRLR  
PLSYPDTDVILMCFSIDSPDLENIPKWTPEVKHFCPNVPIILVGNKKDLRQDEHTRRELAKMKQEPVR  
SEEGRDMANRISAFGYLECSAKTKEGVREVFEMATRAGLQVRKNKRRRGCPIL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

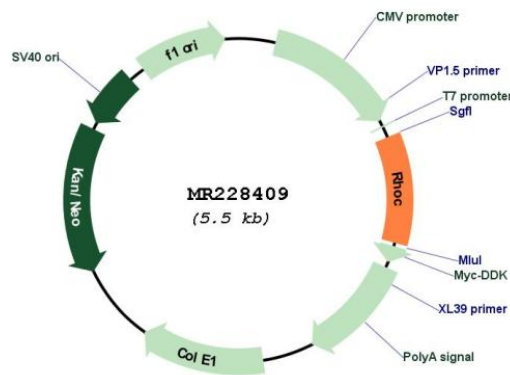


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## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001291859

ORF Size: 579 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.

**RefSeq:** [NM\\_001291859.1](#), [NP\\_001278788.1](#)

**RefSeq Size:** 1092 bp

**RefSeq ORF:** 582 bp

**Locus ID:** 11853

**UniProt ID:** [Q62159](#)

**Cytogenetics:** 3 F2.2

**MW:** 22.5 kDa

**Gene Summary:** Regulates a signal transduction pathway linking plasma membrane receptors to the assembly of focal adhesions and actin stress fibers. Serves as a microtubule-dependent signal that is required for the myosin contractile ring formation during cell cycle cytokinesis. Regulates apical junction formation in bronchial epithelial cells.[UniProtKB/Swiss-Prot Function]