

Product datasheet for MR201861

Rhoc (NM_007484) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rhoc (NM_007484) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rhoc
Synonyms: AI324259; Arh9; Arhc
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201861 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGCGATCCGAAAGAAGCTGGTGATTGTGGGTGACGGTGCCTGTGGGAAGACCTGCCTCCTCATTG
 TCTTCAGCAAAGATCAGTTTCCAGAGGTCTACGTGCCTACCGTCTTTGAGAACTATATAGCCGACATCGA
 AGTGGATGGCAAGCAGGTGGAGCTGGCTCTGTGGGACACAGCTGGGCAAGAAGACTACGATCGCCTGCGG
 CCTCTCTCTACCCGGACTGACGTCATCCTCATGTGTTTCTCCATTGACAGCCCTGACAGTTTGGAAA
 ACATTCTGAGAAGTGGACCCAGAGGTGAAGCACTTTTGTCCCAACGTGCCATCATCCTAGTGGGGAA
 TAAAAAGGACCTGAGGCAAGATGAGCATACCAGGAGAGAGCTGGCCAAGATGAAACAGGAGCCGGTTCGA
 TCTGAGGAAGGCCGGGACATGGCAAACAGGATCAGTGCCTTTGGCTACCTCGAGTCTCGCCAAGACTA
 AGGAAGGGGTGCGGGAGGTATTTGAGATGGCCACTCGGGCGGCCTACAGGTCCGGAAGAATAAGCGCCG
 GAGGGGCTGTCCATTCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201861 protein sequence
 Red=Cloning site Green=Tags(s)

MAAIRKKLVIVGDGACGKTCLLIVFSKQDFPEVYVPTVFENYIADIEVDGKQVELALWDTAGQEDYDRLR
 PLSYPDIDVILMCFSIDSPDLENIPKWTPEVKHFCPNVPIILVGNKKDLRQDEHTRRELAKMKQEPVR
 SEEGRDMANRISAFGYLECSAKTKEGVREVFEMATRAGLQVRKKNRRRGCPIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007484

ORF Size: 582 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_007484.2](#)

RefSeq Size: 1082 bp

RefSeq ORF: 582 bp

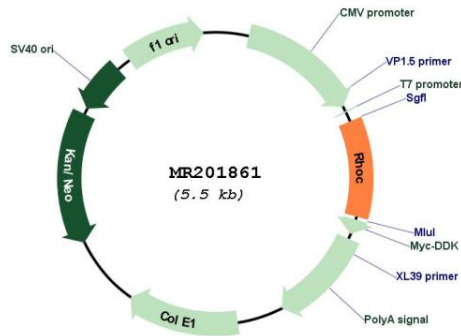
Locus ID: 11853

UniProt ID: [Q62159](#)

Cytogenetics: 3 F2.2
 MW: 22 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]

Product images:



Circular map for MR201861