

Product datasheet for **MG201861**

Rhoc (NM_007484) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: Rhoc
Synonyms: AI324259; Arh9; Arhc
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG201861 representing NM_007484
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGCGATCCGAAAGAAGCTGGTGATTGTGGGTGACGGTGCCTGTGGGAAGACCTGCCTCCTCATTG
TCTTCAGCAAAGATCAGTTTCCAGAGGTCTACGTGCCTACCGTCTTTGAGAACTATATAGCCGACATCGA
AGTGGATGGCAAGCAGGTGGAGCTGGCTCTGTGGGACACAGCTGGGCAAGAAGACTACGATCGCCTGCGG
CCTCTCTCTACCCGGACTGACGTCATCCTCATGTGTTTCTCCATTGACAGCCCTGACAGTTTGGAAA
ACATTCTGAGAAGTGGACCCAGAGGTGAAGCACTTTGTCCCAACGTGCCCATCATCCTAGTGGGGAA
TAAAAAGGACCTGAGGCAAGATGAGCATACCAGGAGAGAGCTGGCCAAGATGAAACAGGAGCCGTTTCTGA
TCTGAGGAAGGCCGGGACATGGCAAACAGGATCAGTGCCTTTGGCTACCTCGAGTGCTCGGCAAGACTA
AGGAAGGGTGGGGAGGTATTTGAGATGGCCACTCGGGCGGCCACAGGTCCGGAAGAATAAGCGCCG
GAGGGGCTGTCCCATTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201861 representing NM_007484
Red=Cloning site Green=Tags(s)

MAAIRKKLVIVGDGACGKTCLLIVFSKDKQFPEVYVPTVFENYIADIEVDGKQVELALWDTAGQEDYDRLR
PLSYPTDVIILMCFSIDSPDSLENIPEKWTPEVKHFCPNVPIILVGNKKDLRQDEHTRRELAKMKQEPVR
SEEGRDMANRISAFGYLECSAKTKEGVREVFEMATRAGLQVRKNKRRRGCPIL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_007484

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_007484.2](#)

RefSeq Size: 1036 bp

RefSeq ORF: 582 bp

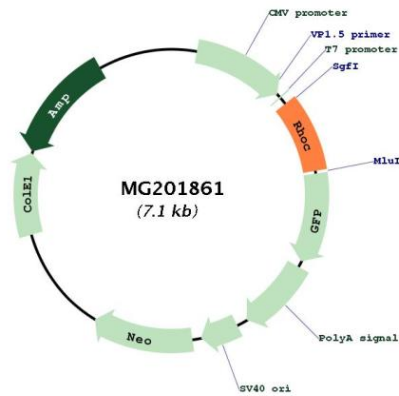
Locus ID: 11853

UniProt ID: [Q62159](#)

Cytogenetics: 3 F2.2

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 MG201861