

## Product datasheet for MR201870

### Rhoa (NM\_016802) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rhoa (NM\_016802) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rhoa  
**Synonyms:** A; Ar; Arha; Arha1; Arha2; R  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201870 representing NM\_016802  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGCCATCAGGAAGAACTGGTGATTGTTGGTGATGGAGCTTGTGGTAAGACATGCTTGCTCATAG  
 TCTTCAGCAAGGACCAGTCCCAGAGGTCTATGTGCCACGGTGTGGAAAATATGTGGCGGATATCGA  
 GGTGGATGGGAAGCAGGTAGAGTTGGCTTTATGGGACACAGCTGGACAGGAAGATTATGACCGCCTGCGG  
 CCTCTCTTATCCAGACACCGATGTTATATTGATGTGTTTTCCATTGACAGCCCTGATAGTTTAGAAA  
 ACATCCCAGAAAATGGACTCCAGAAGCAAGCATTTCTGTCCAATGTGCCATCATCCTGGTTGGGAA  
 CAAGAAGGACCTTCGGAATGACGAGCACACGAGACGGGAGTTGGCCAAAATGAAGCAGGACCGGTA  
 CCTGAAGAAGGCAGAGATATGGCAAACAGGATTGGCGCTTTTGGGTACATGGAGTGTTCAGCAAAGACCA  
 AAGATGGAGTGAGAGAGGTTTTTTGAGATGGCCACGAGAGCTGCTCTGCAAGCTAGACGTGGGAAGAAAA  
 GTCTGGGTGCCTCATCTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201870 representing NM\_016802  
 Red=Cloning site Green=Tags(s)

MAAIRKKLVIVGDGACGKTCLLIVFSKQDFPEVYVPTVFENYVADIEVDGKQVELALWDTAGQEDYDRLR  
 PLSYPD TDVILMCF SIDSPD SLENIPEKWTPEVKHFCPNVPIILVGNKKDLRND EHTRRELAKMKQEPVK  
 PEEGRDMANRIGAFGYMECSAKTKDGVREVFEMATRAALQARRGKKKSGCLIL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

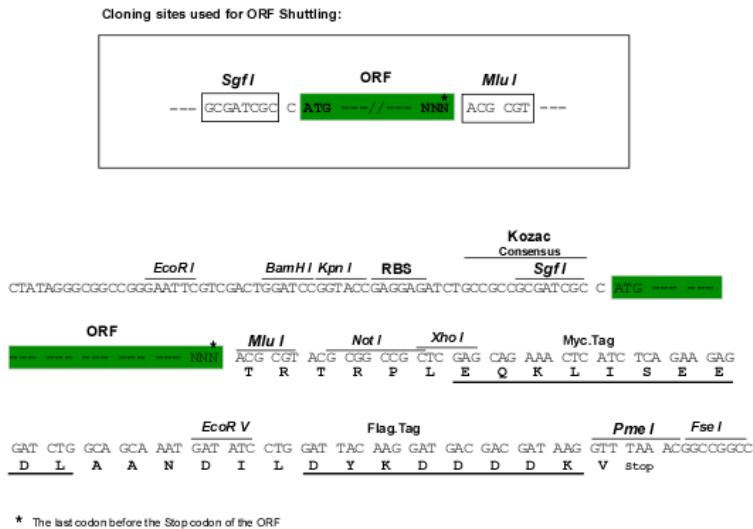


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**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9033\\_a02.zip](https://cdn.origene.com/chromatograms/mm9033_a02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_016802

**ORF Size:** 579 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_016802.5](#)

**RefSeq Size:** 2126 bp

**RefSeq ORF:** 582 bp

**Locus ID:** 11848

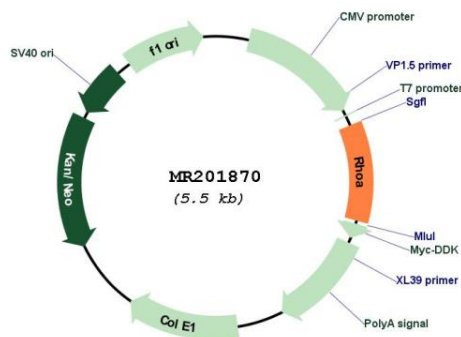
**UniProt ID:** [Q9QUI0](#)

**Cytogenetics:** 9 F2

**MW:** 22.2 kDa

**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. Overexpression of this gene is associated with tumor cell proliferation and metastasis. Multiple alternatively spliced variants have been identified. [provided by RefSeq, Sep 2015]

### Product images:



Circular map for MR201870