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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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGCCATCAGGAAGAAACTGGTGATTGTTGGTGATGGAGCTTGTGGTAAGACATGCTTGCTCATAG
TCTTCAGCAAGGACCAGTTCCCAGAGGTCTATGTGCCCACGGTGTTTGAAAACTATGTGGCGGATATCGA
GGTGGATGGGAAGCAGGTAGAGTTGGCTTTATGGGACACAGCTGGACAGGAAGATTATGACCGCCTGCGG
CCTCTCTCTTATCCAGACACCGATGTTATATTGATGTGTTTTTCCATTGACAGCCCTGATAGTTTAGAAA
ACATCCCAGAAAAATGGACTCCAGAAGTCAAGCATTTCTGTCCAAATGTGCCCATCATCCTGGTTGGGAA
CAAGAAGGACCTTCGGAATGACGAGCACACGAGACGGGAGTTGGCCAAAATGAAGCAGGAGCCGGTAAAA
CCTGAAGAAGGCAGAGATATGGCAAACAGGATTGGCGCTTTTGGGTACATGGAGTGTTCAGCAAAGACCA
AAGATGGAGTGAGAGAGGTTTTTGAGATGGCCACGAGAGCTGCTCTGCAAGCTAGACGTGGGAAGAAAAA
GTCTGGGTGCCTCATCTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR201870 representing NM_016802
Red=Cloning site Green=Tags(s)

MAAIRKKLVIVGDGACGKTCLLIVFSKDQFPEVYVPTVFENYVADIEVDGKQVELALWDTAGQEDYDRLR
PLSYPDTDVILMCFSIDSPDSLENIPEKWTPEVKHFCPNVPIILVGNKKDLRNDEHTRRELAKMKQEPVK
PEEGRDMANRIGAFGYMECSAKTKDGVREVFEMATRAALQARRGKKKSGCLIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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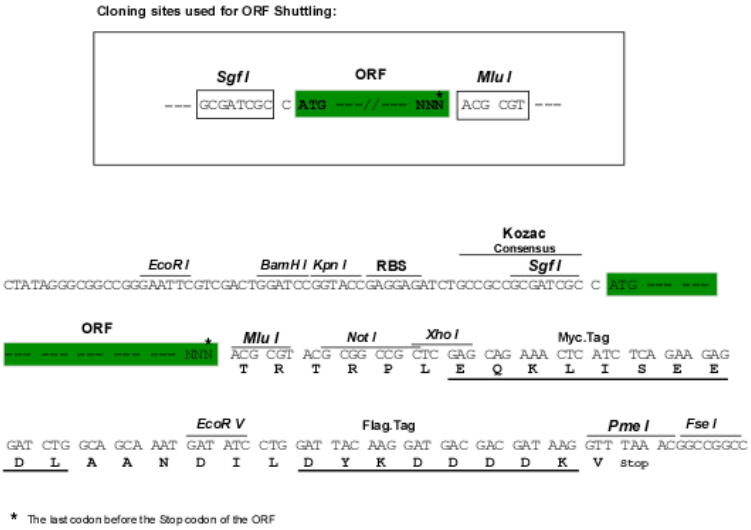
Chromatograms: https://cdn.origene.com/chromatograms/mm9033_a02.zip

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 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.

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

RefSeq: NM_016802.5

RefSeq Size: 2126 bp

RefSeq ORF: 582 bp

Locus ID: 11848

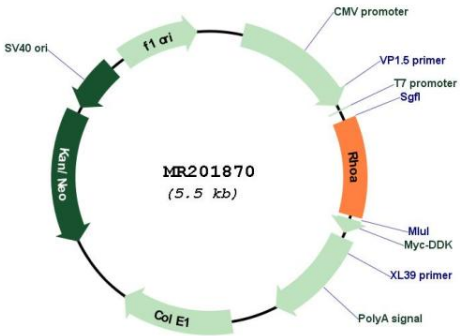
UniProt ID: Q9QUI0

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