

Product datasheet for **MC202601**

Rhoa (NM_016802) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rhoa (NM_016802) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rhoa
Synonyms:	A; Ar; Arha; Arha1; Arha2; R
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC068115 sequence for NM_016802
 GTCATGCTCCACGCGTCTGCCATGATTGGTTAAGCGTCTAGCTCTCAGGGCGTGGATGCGTTCTTGAGCA
 ATCGTGGCTGAACTGAGAGTGTGCGCGCGTGC CGGGGCCGACTGGCGCCAGCTCGAGCCCGCAGGGC
 GCTCGGGGCCGCGCACGTGCTCCCCGCCCTCCCGCCACCGCCCGCCCTCGTTGCTCGCGCTCCCCGCC
 CGCCGCCCGCGGTCTCCGTGCGTTCTCTCCATAGCCCGCGTCTCCACGGAGCTGCCCGTCTTGCGT
 CGGAGCTCGCGGACTCGCGGACAAGCGTCTCAGCGCAAGAGGCCGACTCGGAGTCTCGCCTTGAGC
 CTTGACCTGAGAAGTTCAGGTACTTTGTACAACACTGCCAGAACCTGTGTGTTTTCCAGCACCTTTA
 TAAGTGATGGCTGCCATCAGGAAGAACTGGTGATTGTTGGTGATGGAGCTTGTGGTAAGACATGCTTGC
 TCATAGTCTTCAGCAAGGACCAGTTCAGAGGTCTATGTGCCACGGTGTGAAAACTATGTGGCGGA
 TATCGAGGTGGATGGGAAGCAGGTAGAGTTGGCTTTATGGGACACAGCTGGACAGGAAGATTATGACCGC
 CTGCGGCCTCTCTTATCCAGACACCGATGTTATATTGATGTGTTTTCCATTGACAGCCCTGATAGTT
 TAGAAAACATCCAGAAAAATGGACTCCAGAAGTCAAGCATTCTGTCCAAATGTGCCATCATCTGGT
 TGGGAACAAGAAGGACCTTCGGAATGACGAGCACAGAGACGGGAGTTGGCCAAAATGAAGCAGGAGCCG
 GTAAAACCTGAAGAAGGCAGAGATATGGCAACAGGATTGGCGCTTTTGGGTACATGGAGTTCAGCAA
 AGACCAAAGATGGAGTGAGAGAGTTTTGAGATGGCCACGAGAGCTGCTCTGCAAGCTAGACGTGGAA
 GAAAAAGTCTGGGTGCCTCATCTTGTGAAGCCTTGTGAACGCAGCCTCATGCGGTTAATTTGAAGTGCTG
 TTTATTAATCTTAGTGTATGATTACTGGCCTTTTCATTTATCTATAATTTACCTAAGATTACAAATCAAA
 GTCATCTTGCTACCAGTATTTAGAAGCCAACCAGATTATTAATAATGTCCAACCTGTCTGACCAGCCAG
 GGTCTTCTGACACTGCTCTAACAGCCCTCTGCACTCCACCTGACACCAGGCGTAATTCAAAGAATT
 TCTTAACCTTCTGCTCTTTCTAGAAAGAGAAACAGTTGGTAACCTTTTGTGAATTAGGCTGTAACACTT
 TATAACTAACATGTCCTGCTACTTTCTGTCAACTGCAAGAACTGTTGAGTCACTACTTCAGAGCTTT
 CCTTGTTAACAGACTCCATTGCCAGAGCTCTGGGGTGGGTATTCAGTTTTTTGAAATCTTGCTCAGCCAG
 AAAGCCCAAGTCCACGAGCTGTTGCAGAGTTACAGTTCTGTGGTCTCATGTTAGTTACCTTATAGTA
 CTGTGTAATTAGTCCACTTAATGTATGTTACCAAAAAATAAATATATCTACCCAGACTAGATGTAGTA
 TTTTTGTATAATTGGATTTCTAATACTGATATTTGTCACTCCACAGAAAGTGTATTGCTCTTTTCT
 TTTTCTTCTTTCTTTCTTTTTTTTTTTTTTTTTTTTTTAAGAAAGTGTATTTGAAATAAAGTCAG
 ATGGAAGAATTCATTTTTAAATTTCCATTTTGTCACTTCTCTGATAAAATATGGCCATATCCCTTATT
 CAGCCCTATATCATTCTAGTACCCCTTTCCAGACTGGACTAAGTAGGAATTTGGTTTCCCGCCTGAGG
 CAGTTACTTTGGAGGTGGCATAGCCTTTCTCACCTGGACTGCAGGGTCTGGCTCTAAGTCACAGTGT
 CCTTCTCCACACTGTATCCAAGTGCCTCCCAGAGGAGCCACAGTTCTTATGGGTGGCAGTGGTGGG
 GGTGGGGGGTCTTCTCTCCAGCTGACTAAACATTTTTCTGTACCAGTTAATTTTTCCAACATAATAGA
 ATAAAGGCAGTTTTCTAAA

Restriction Sites: AscI-NotI
ACCN: NM_016802
Insert Size: 582 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](#)

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:	<ol style="list-style-type: none">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:	<u>BC068115</u> , <u>AAH68115</u>
RefSeq Size:	2166 bp
RefSeq ORF:	582 bp
Locus ID:	11848
UniProt ID:	<u>Q9QUI0</u>
Cytogenetics:	9 F2
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>