

Product datasheet for **RG201966**

ARHGAP1 (NM_004308) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ARHGAP1 (NM_004308) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | ARHGAP1 |
| Synonyms: | CDC42GAP; p50rhoGAP; RHOGAP; RHOGAP1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG201966 representing NM_004308 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCCGCTCTCAGAGCTGCAGGATGATCTGACCTTGGATGACACCAGCGAGGCTCTGAACCAGCTGA
AGCTGGCTCCATCGATGAGAAGAACTGGCCCTCGGATGAAATGCCTGACTTCCCCAAGTCAGATGACTC
AAAAGCAGCTCCCCGAACTTGTACACACCTGAAGTGGGATGACCCATACTATGACATCGCCCGGCAC
CAGATCGTGGAGGTGGCAGGAGATGACAAGTATGGCGGAAGATCATTGTGTTTAGTGCCTGTGCAATGC
CCCCAGCCACCAGCTCGACCACAGCAAGCTCCTGGGGTACCTGAAGCACACCCTGGACCAGTACGTGGA
GAGTGACTACACACTTCTGTATCTGCACCACGGCCTGACCAGCGACAACAAGCCCTCCCTCAGCTGGCTC
CGTGATGCCTACCGGGAGTTTGACCGCAAGTACAAGAAGAATCAAGGCCTTGTACATCGTGCATCCAA
CCATGTTTCATCAAACTCTGCTCATCTCTTCAAGCCCTCATCAGCTTCAAGTTCGGGCAGAAGATCTT
CTATGTGAATTACCTGAGCGAGCTGAGCGAGCAGTGAAGCTGGAGCAGCTGGGGATCCCTCGCCAAGTG
CTCAAATATGACGACTTCTGAAATCCACACAGAAGAGCCCCGCGACAGCCCCAAGCCCATGCCCCAC
GGCCCCCTGCCAACCAGCAGTTTGGAGTCTCGCTGCAGCACCTCCAGGAGAAGAATCCAGAGCAGGA
GCCCATTTCCATTGTACTCAGGGAGACTGTTGCCTACTACAGGCCACGCTCTCACCACCGAGGGCATC
TTCCGGAGTTCGGCCAACACCCAAGTGGTCCGGGAAGTGCAGCAGAAGTACAACATGGGGTGCCTGTGG
ATTTGACCAAGTACAATGAGCTGCACCTGCCAGCAGTCATCCTCAAGACCTTCTCCGGGAGCTTCTCTGA
GCCCTGCTCACCTTTGACCTCTACCCCATGTGGTGGGCTTCTCAACATTGATGAAAGCCAGAGGGTG
CCAGCGACTGCAGGTCTCCAGACGCTGCCGAGGAGAAGTACCAGGTGCTTCGTTTCTGACTGCTT
TCCTGGTGCAGATTTCTGCACACAGTGACCAGAACAAGATGACCAACACTAACCTGGCTGTTGTTTTCGG
CCCTAACCTGCTGTGGGCAAGGATGCGGCCATCACCTCAAGGCCATTAATCCCATCAACACCTTACC
AAGTTCCTTCTGGATACCAAGGGGAGCTGTTCCCAAGCCGGACCCAGCGGGCTC

ACGGTACGGCGCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201966 representing NM_004308
Red=Cloning site Green=Tags(s)

MDPLSELQDDLTLDDTSEALNQLKLASIDEKNWPSDEMPDFPKSDDSKSSPELVTHLKWDDPYDIARH
 QIVEVAGDDKYGRKIIIVFSACRMPPSHQLDHSKLLGYLKHTLDQYVESDYTLLEYLHHGLTSDNKPSLSWL
 RDAYREFDRKYKNIKALYIVHPTMFIKTLILFKPLISFKFGQKIFYVNYLSELSEHVKLEQLGIPRQV
 LKYDDFLKSTQKSPATAPKMPMPRPPLPNQQFGVSLQHLQEKNEQEPIPIVLRRETVAYLQAHALTTEGI
 FRRSANTQVVREVQQKYNMGLPVDFDQYNELHLPVILKTFRLRELPEPLLTFDLYPHVVGFLNIDESQRV
 PATLQVLQTLPEENYQVLRFLTAFLVQISAHSDQNKMTNTNLAVVFGPNLLWAKDAAITLKAINPINTFT
 KFLLDHQGELFSPDPSGL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004308

ORF Size: 1317 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_004308.3](#)

RefSeq Size: 3372 bp

RefSeq ORF: 1320 bp

Locus ID: 392

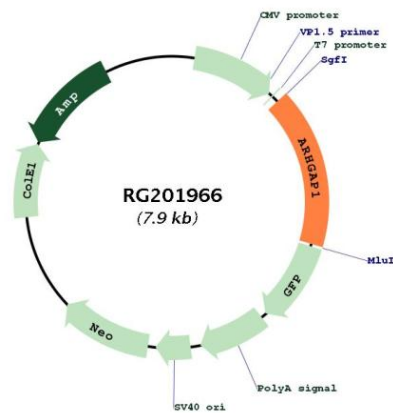
UniProt ID: [Q07960](#)

Cytogenetics: 11p11.2

Domains: RhoGAP, SEC14

Gene Summary: This gene encodes a member of a large family of proteins that activate Rho-type guanosine triphosphate (GTP) metabolizing enzymes. The encoded protein contains a SRC homology 3 domain and interacts with Bcl-2-associated protein family members. [provided by RefSeq, Aug 2012]

Product images:



Circular map for RG201966