

Product datasheet for **SC309106**

ARHGAP21 (NM_020824) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP21 (NM_020824) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARHGAP21
Synonyms:	ARHGAP10
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_020824 edited
 GCGGGATCGTCCGGCTGCGGGGTCCGGCTCACGCCGGGCGGGCGGGCGCGCTGTC
 CCGGAGCCGGCCAGCCCCGTGCGGATCCACTCGTCCCGCTTCTCTGGATCTCTAGGA
 GCTGACACTCGAACCTTACGACCCATTTCGATTTCAGGACTCAGGAGTGCCACTGG
 GAAGAAGGGGACCGCTTCTGCAATTGGCTCGACACTGGCTGCCAAGAAGACCTGTCG
 CTTTGTGTTTAAAGTCTCCAGAAATGGAAGAAGAAGGCGAAGTCAGTTGAAGTCACGAGAA
 ATCAGCGAGGCATTTGAAGGCGCTTCTGAAAACCTTTATCCCTGGCACGTTGTCTGTT
 TCAACAGCCCTGCCCTCCTCGGAGCCTGCTTGTGGAATTCTCCCTTCGGGTGTGTGG
 TGGCATTCCCGCCACGTCCAATGTGGACTCAAAGGATTTGTCCTTCTTTGTCATTTG
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 GGCTGCGAGGTCTCAAAAATAAAGATGGAAGAACAAGTAAAAGTGTATCACTGTC
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 AGGCTTTGGTTTTACATTAAGACATTTTATTGTTTATCCCCCAGAGTCTGCAATTC AATT
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 AATGGATACCATATTTGTTAAGCAAGTTAAAGAAGGAGGACCTGCTTTTGAAGCTGGATT
 ATGTACAGGTGACCGAATTATAAAAGTCAATGGAGAAAGTGTATTGGCAAAACCTATTC
 CCAAGTAATTGCTTTAATTCAAAACAGTGATACAACATTGGAACCTAGTGTATGCCAAA
 AGATGAAGACATTCTCAAGTGTACAGTTTACAAAGGATGTACAGCACTGGCATATTC
 TCAAGATGCCTACCTGAAAGGCAACGAAGCTTATAGCGGCAATGCCCGCAATACCTGA
 ACCTCCACCAATCTGCTATCCCTGGCTGCCATCTGCCCATCAGCCATGGCACAGCCAGT
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 ACAACCTGGTAGGGCCTATAGAATGAAAATACAAGTGCCTCCATCACCACAGATGTTGC
 AAAATCAAACACAGCAGTGTGTGTTTGAATGAAAGTGTAAAGACTGTCAATTGTGCCTTC
 TGAGAAGTTGTAGATTTGTTATCCAATAGAAACAACCATACAGGTCCTTACATAGAAC
 TGAAGAAGTGAGGTATGGCGTGAGTGAGCAGACCTCTTTAAAAACAGTGTCAAGAACCAC
 ATCACCACCATTATCAATTCCCACCACTCATTAATTCATCAGCCTGCAGGCTCCAGATC
 ACTGGAACCTTCTGGAATTTACTTAAGTCTGGAATTACAGTGGACATTCTGATGGAAT



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CTC AAGCAGCAGATCTCAAGCTGTGGAGGCTCCCTCTGTATCTGTTAATCACTATTTCGCC
 AAATCCCATCAGCACATAGACTGGAAAACTATAAACTTACAAAGAGTATATTGATAA
 CAGACGATTGCACATAGGTTGTCGGACAATACAAGAAAGATTAGATAGTTTAAGAGCAGC
 ATCTCAAAGCAGCAGACAGATTATAACCAGGTCGTCCTCCCAACCGCACTACTTTGCAGGGACG
 ACGTCGAAAGCACCTCTCATGATCGAGTGCCCAAGTCTGTCAGATACGGCAACGCAGTGT
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 AGGAGCACTGACGTCTCCATCTGTTAGTTTTAGTAATCATAGAAGTCTGTTTCATGGGATTA
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 CAATGGAGAGAAAAACAGACTTACAAGTGGAGTGGGTTTACTGAACAGGATGATAGACG
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 TTTTCAGACTACTTGTGGAATGTCAGTGCCTCGGGGATTTTACAAGACAGGTCACCTCT
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 TCGGTATATTCCATTAATAGTTGACATATGTTGCAAAATTAGTTGAAGAAAGAGGTCTTGA
 ATATACAGGTATTTATAGAGTTCCTGGAAATAATGCAGCCATCTCAAGTATGCAAGAAGA
 ACTCAACAAGGGAATGGCTGATATTGATATACAAGATGATAAATGGCGAGATTTGAATGT
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 TAAATATGCTGATTTTATTGAAGCCAATCGTAAAGAAGATCCTCTAGATCGTCTGAAAAC
 ATTA AAAAGACTAATTCAGATTTGCCTGAACATCATTATGAAACACTTAAGTTCCTTTT
 AGTCTATCTGAAGACAGTGGCAGAAAATTCAGAAAAAAATAAGATGGAACCAAGAAACCT
 AGCAATAGTGTGTTGGTCCACCCTTGTTCGAACATCAGAAGACAACATGACCCACATGGT
 CACCCACATGCCTGACAGTACAAGATTGTAGAAACGCTCATCCAGCACCATGACTGGTT
 TTTACAGAAAGAGGTGCTGAAGAGCCTTTACAACAGTGCAGGAGGAAAGCACAGTAGA
 CTCCCAGCCAGTGCCAAACATAGATCATTTACTACCAACATTGGAAGGACAGGAGTCTC
 CCCAGGAGATGTATCAGATTCAGCTACTAGTCAACAAAATCTAAGGGTTCTTGGGG

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ATCTGGAAAGGATCAGTATAGCAGGGAAGTCTTGTGTCCTCCATCTTTGCAGCTGCTAG
TCGCAAGAGGAAGAAGCCGAAAGAAAAAGCACAGCCTAGCAGCTCAGAAGATGAACTGGA
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CAAAAAGAAAGTGAGACACTGGGCAGAAAACAGAAGATCATCATTGCCAAAGAAAACAG
CACTAGGAAAGACCCAGCACGACAAAAGATGAAAAGATATCACTAGGAAAAGAGAGCAC
GCCTTCTGAAGAACCCTCACCACCACACAACTCAAAACACAACAAGTCACCAACTCTCAG
CTGTGCTTTGCCATCCTGAAAGAGAGAGCCAGGTCACTTCTGGCAGAGAAGTCTCCCA
CCTTGAAGAGACAGGCTCTGACTCTGGCACTTTGCTCAGCACGTCTTCCAGGCCTCCCT
GGCAAGGTTTTCCATGAAGAAATCAACCAGTCCAGAAAACGAAACATAGCGAGTTTTTGGC
CAACGTCAGCACCATCACCTCAGATTATCCACCACATCGTCTGTACTACTTGACTAG
CCTGGACTCCAGTCGACTGAGCCCTGAGGTGCAATCCGTGGCAGAGAGCAAGGGGACGA
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GAGCGAGTTTCCCGTGTCCCCACAGCCTTGACTTCAGAGAGGCTTTCCGAGGAAAAC
GCAAGAAGTGACTAAGAGCAGCCGAGAAATTCTGAAGGAAGTGAATTAAGTTGCACCGA
GGGAAGTTTAAACATCAAGTTTAGATAGCCGGAGACAGCTTTCAGTTCCATAAACTCAT
CGAATGTGATACTCTTCCAGGAAAAATCAGCTAGATTCAAGTCAGATAGTGGAAAGTCT
AGGAGATGCCAAGAATGAGAAAAGAGCACCTTCGTTAACTAAAGTGTGTTGATGTTATGAA
AAAAGGAAAGTCAACTGGGAGTTTACTGACACCCACCAGAGGCGAATCCGAAAAACAGGA
ACCCACATGGAACGAAATAGCAGATCGGTTAAACTGAGACCCAGAGCCCCTGCGGA
TGACATGTTTGGAGTAGGGAATCACAAGTGAATGCCGAGACTGCTAAAAGGAAAAGCAT
CCGGCGCAGACATACACTAGGAGGGCACAGAGATGCTACCGAAATCAGCGTTTTGAATTT
TTGGAAAGTGCATGAGCAGAGCGGGGAGAGAGAATCTGAACTTTCAGCTGTAACCGGTT
AAAACAAAATGCTCAGCCAGGACCTTCCATCTCAGACTGGCTGGCCAGGGAACGCCT
ACGCACCAGTACCTCTGACCTTAGCAGAGGAGAAATCGGAGATCCCCAGACAGAGAACC
AAGCACACGAGAAATAGCCACGACCGACACCTTTGTCTTTCATTGCAACACAGGCAG
TTCTTCCAGCACCTTGGCTTCAACAAAACAGGCCCTTCTTCCATACCACCACAGTCACC
TGACCAAATAAACGAGAAAAGCTTCCAGAACGTGAGCAAAAATGCTAGTTCTGCAGCGAA
TGCCCAACCTCATAAACTGTCTGAAACCCAGGCAGTAAAGCAGAGTTTCATCCCTGTCT
TTAACTGGGGTATGTCCACTAGCAAGTAAAAAACTACTGTTACACGTTCCAGTAA
CTCTGTCAATATTTCTGTATCAGAATTGTTATTATGCAGCCTTCATTTGGGCTGGTTT
CATCATTTTGCAGTGTGAAATAGCTTTACAGTGCATTACTACAGCCAGAAGAACATATAT
ATATATATATATTTAAAAATATATCGGATAGTTGTATACAAATGAGCAAGGTATTTGTTG
CAACTTACTACATAGCATATACCCAAAATCACTGAAGAAAATCGCTGGCATCAGTGTGCA
GCAAAATTTGTTCTTTTGGTTTCATCACTAACAAAAGT
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_020824
- Insert Size:** 7100 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be perfect to match to NM_020824.3.
- 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_020824.2](#), [NP_065875.2](#)

RefSeq Size: 7185 bp

RefSeq ORF: 5874 bp

Locus ID: 57584

UniProt ID: [Q5T5U3](#)

Cytogenetics: 10p12.3

Domains: RhoGAP, PDZ, PH

Gene Summary: ARHGAP21 functions preferentially as a GTPase-activating protein (GAP) for CDC42 (MIM 116952) and regulates the ARP2/3 complex (MIM 604221) and F-actin dynamics at the Golgi through control of CDC42 activity (Dubois et al., 2005 [PubMed 15793564]).[supplied by OMIM, Mar 2008]

Transcript Variant: This variant (1) encodes the longest isoform (a). Variants 1, 2, and 3 all encode the same isoform (a). Sequence Note: The 5'-most in-frame translation start codon is selected for this RefSeq and is well-conserved among mammalian species. An alternative start codon that would reduce the protein length by 1 aa is also present. The use of the downstream start codon is assumed in the literature, including PMIDs:12056806, 15793564 and 17347647.