

Product datasheet for **SC328093**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_020824, the custom clone sequence may differ by one or more nucleotides

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ATGATGGCCACGCGTCGGACTGGTCTGTCTGAGGGAGATGGTGACAAGCTCAAGGCTCG
GAGGTCTCAAAAAATAAAGATGGAAAAGAACAAGTGAACTGTATCACTGTCTGAAGAT
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GGTTTTACATTAAGACATTTTATTGTTTATCCCCAGAGTCTGCAATTCAATTTTCATAT
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CCAATCTGCTATCCCTGGCTGCCATCTGCCCATCAGCCATGGCACAGCCAGTTGAAATA
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AACACAGCAGTGTGTGTTTGAATGAAAGTGAAGGACTGTCATTGTGCCTTCTGAGAAG
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GGACAGGATGAAACCTTAGAAAATGTCAATTCTGGAACCTCAATACCTGATTCCAATGGA
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 ACTACTTGTGGAATGTCACTGCCTCGGGTATTTCAACAAGACAGGTACACCTTTGTGAAA
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 AGGAAGAAGCCGAAAGAAAAGCACAGCCTAGCAGCTCAGAAGATGAACTGGACAATGTA
 TTTTTAAGAAAAGAAAATGTGGAACAGTGTACAATGATACTAAAGAGGAGTCCAAAAAA
 GAAAGTGAGACACTGGGCAGAAAACAGAAGATCATCATTGCCAAAAGAAAACAGCACTAGG
 AAAGACCCAGCACGACAAAAGATGAAAAGATATCACTAGGAAAAGAGAGCACGCCTTCT
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 TCCAGTCGACTGAGCCCTGAGGTGCAATCCGTGGCAGAGAGCAAGGGGGACGAGGCAGAT
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 GATACTCTTCCAGGAAAAAATCAGCTAGATTCAAGTCAGATAGTGAAGTCTAGGAGAT
 GCCAAGAATGAGAAAGAAGCACCTTCGTTAACTAAAGTGTGATGTTATGAAAAAGGA
 AAGTCAACTGGGAGTTTACTGACACCCACCAGAGGCGAATCCGAAAAACAGGAACCCACA
 TGGAAAACGAAAATAGCAGATCGGTTAAACTGAGACCCAGAGCCCTGCGGATGACATG
 TTTGGAGTAGGGAATCACAAAGTGAATGCCGAGACTGCTAAAAGGAAAAGCATCCGGCGC
 AGACATACTAGGAGGGCACAGAGATGCTACCGAAATCAGCGTTTTGAATTTTTGGAAA
 GTGCATGAGCAGAGCGGGGAGAGAGAATCTGAACCTTCAGCTGTAACCGTTAAAACCA
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 CGAGAAATAGCCACGACCGACACACCTTTGTCTTTCATTGCAACACAGGCAGTTCTTCC
 AGCACCTTGGCTTCAACAACAGGCCCTTCTTCCATACCACCACAGTCACCTGACCAA
 AATAACGGAGAAAGCTTCCAGAACGTGAGCAAAAATGCTAGTTCTGCAGCGAATGCCCAA
 CCTCATAAACTGTCTGAAACCCAGGCAGTAAAGCAGAGTTTCATCCCTGTCTT

Restriction Sites:

Please inquire

ACCN:

NM_020824

Insert Size:

7185 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:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_020824.3](#), [NP_065875.3](#)
RefSeq Size:

7185 bp

RefSeq ORF:

7185 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.