

Product datasheet for **SC324215**

ARPC1A (NM_006409) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARPC1A (NM_006409) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARPC1A
Synonyms:	Arc40; HEL-68; HEL-S-307; SOP2Hs; SOP2L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_006409.2
 GTCCTCCGCCCGCGCCGACGGAGCCTGTTGCGCTCGACTGCCAGAGTCCGCGAATCCT
 CCGCTCCGAGCCCGTCCGGACTCCCCGATCCCAGCTTCTCCTTTGAAAACACTAAG
 AATAATGTCACATGCATCAGTTTTACTAGAGCCAATCACCTGTCATGCCTGGAACAGGGA
 TCGTACTCAGATTGCCCTCAGTCCCAATAATCACGAAGTGCACATCTATAAGAAGAACGG
 GAGCCAGTGGGTGAAAGCTCATGAACTCAAGGAGCACAACGGACACATCACAGGTATTGA
 CTGGGCTCCCAAGAGCGACCGCATTGTCACTTGTGGGGCAGACCGCAATGCCTATGCTG
 GAGTCAGAAAAGATGGTGTGGAAAGCCAACCCTGGTGATCCTGAGAATTAATCGCGCAGC
 TACTTTTGTGAAGTGGTCCCCCTAGAGAACAATTTGCTGTGGGAAAGTGAGCACGACT
 CATTCTGTTTGTACTTTGAGTCTGAAAATGACTGGTGGGTGAGCAAGCACATTAATAAAA
 GCCGATTGCTCCACAGTCTCAGCTTGGATTGGCATCCCAACAACGTTTTGCTGCGCAGC
 AGGATCATGTGACTTCAAATGCAGAGTGTCTCTGCTACATTAAGAAGTGGATGAAAA
 GCCAGCCAGCACGCCCTGGGGCAGCAAGATGCCTTTGGGCAGCTGATGTCAGAGTTTGG
 TGGCAGTGGCACTGGTGGCTGGGTCCACGGGTAAGCTTCTGCGCAGTGGGAGCCGCT
 GGCTGGGTGAGCCAGCACAGCACCGTGTCTGTTGCTGATGCCTCAAAAAGTGTGCAGGT
 CTCGACTCTGAAGACAGAGTTCCCTGCCGCTCCTAAGTGTGCATTTGTCTCAGAGAACAG
 CGTCGTGGCTGCTGGCCATGACTGCTGCCCAATGCTCTTTAACTACGATGACCGCGGCTG
 CCTGACCTTCGTCTCAAAGTTAGATATTCAAAACAGAGCATCCAACGCAACATGTCTGC
 CATGGAACGCTTCCGCAACATGGACAAGAGAGCCACAACCTGAGGACCGCAACACGGCCTT
 GGAGACGCTGCACCAGAAATAGCATCACTCAAGTCTCTATTTATGAGGTGGACAAGCAAGA
 TTGTCGCAAAATTTGCACTACTGGCATCGATGGAGCCATGACAATTTGGGATTTCAAGAC
 CCTCGAGTCTTCCATCCAGGGCCTCCGGATAATGTGAAGCTGAGTGAAGCTCCGCCATCC
 AGCATGACAAAACCTGTGGCCGACCGCAGCTGTGCCGTGGCAGATGGCGAGGAAGCCAGCC
 CCAAGGAAACACTGAAAACACATATCACGCCAATGCCGTGGTGGTTTTGTTGAATATAAA
 ATTGGTGAAGTGTGGTTTTTTAAGGCAAGTATTTTTTTGTTGTTTTTTTGGCATT
 CATTCCATTCTTGACCAAAGCTTCTCTTTAAGTAGTTTATTATGGAAAATTGTCACACTA
 ACTTAAAAGACAGGGTGAGGGAGATATGTAATTGTCCACTAGAAAATTAATAAAAAGAA
 CTGAAAAAAAAAAAAAAAAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_006409

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_006409.2](#), [NP_006400.2](#)

RefSeq Size: 1619 bp

RefSeq ORF: 1113 bp

Locus ID: 10552

UniProt ID: [Q92747](#)

Cytogenetics: 7q22.1

Domains: WD40

Protein Pathways: Fc gamma R-mediated phagocytosis, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton

Gene Summary: This gene encodes one of seven subunits of the human Arp2/3 protein complex. This subunit is a member of the SOP2 family of proteins and is most similar to the protein encoded by gene ARPC1B. The similarity between these two proteins suggests that they both may function as p41 subunit of the human Arp2/3 complex that has been implicated in the control of actin polymerization in cells. It is possible that the p41 subunit is involved in assembling and maintaining the structure of the Arp2/3 complex. Multiple versions of the p41 subunit may adapt the functions of the complex to different cell types or developmental stages. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2010]
Transcript Variant: This variant (1) encodes the longer isoform (1).