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Product datasheet for SC116099

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:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC116099 sequence for NM_006409 edited (data generated by NextGen Sequencing)

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ATGTCACTGCATCAGTTTTTACTAGAGCCAATCACCTGTCATGCCTGGAACAGGGATCGT
ACTCAGATTGCCCTCAGTCCCAATAATCACGAAGTGCACATCTATAAGAAGAACGGGAGC
CAGTGGGTGAAAGCTCATGAACTCAAGGAGCACAACGGACACATCACAGGTATTGACTGG
GCTCCCAAGAGCGACCGCATTGTCACTTGTGGGGCAGACCGCAATGCCTATGTCTGGAGT
CAGAAAGATGGTGTTTGGAAGCCAACCCTGGTGATCCTGAGAATTAATCGCGCAGCTACT
TTTGTGAAGTGGTCCCCCCTAGAGAACAAATTTGCTGTGGGAAGTGGAGCACGACTCATT
TCTGTTTGTTACTTTGAGTCTGAAAATGACTGGTGGGTGAGCAAGCACATTAAAAAGCCG
ATTCGCTCCACAGTCCTCAGCTTGGATTGGCATCCCAACAACGTTTTGCTGGCAGCAGGA
TCATGTGACTTCAAATGCAGAGTGTTTTCTGCCTACATTAAAGAAGTGGATGAAAAGCCA
GCCAGCACGCCCTGGGGCAGCAAGATGCCTTTTGGGCAGCTGATGTCAGAGTTTGGTGGC
AGTGGCACTGGTGGCTGGGTCCACGGGGTAAGCTTCTCTGCCAGTGGGAGCCGCCTGGCC
TGGGTCAGCCACGACAGCACCGTGTCTGTTGCTGATGCCTCAAAAAGTGTGCAGGTCTCG
ACTCTGAAGACAGAGTTCCTGCCGCTCCTAAGTGTGTCATTTGTCTCAGAGAACAGCGTC
GTGGCTGCTGGCCATGACTGCTGCCCAATGCTCTTTAACTACGATGACCGCGGCTGCCTG
ACCTTCGTCTCCAAGTTAGATATTCCAAAACAGAGCATCCAACGCAACATGTCTGCCATG
GAACGCTTCCGCAACATGGACAAGAGAGCCACAACTGAGGACCGCAACACGGCCTTGGAG
ACGCTGCACCAGAATAGCATCACTCAAGTCTCTATTTATGAGGTGGACAAGCAAGATTGT
CGCAAATTTTGCACTACTGGCATCGATGGAGCCATGACAATTTGGGATTTCAAGACCCTC
GAGTCTTCCATCCAGGGCCTCCGGATAATGTGA

Clone variation with respect to NM_006409.3
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View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006409 unedited
TCAGCATTTGTATACGACTCATATAGGGCGGCCGCGAATTCGCACGAGGCCTCGTGCCGA
ATTCGGCACGAGGCCGACGGAGCCTGTTCGCGTCGACTGCCCAGAGTCCGCGAATCCTCC
GCTCCGAGCCCGTCCGGACTCCCCCGATCCCAGCTTTCTCTCCTTTGAAAACACTAAGAA
TAATGTCACTGCATCAGTTTTTACTAGAGCCAATCACCTGTCATGCCTGGAACAGGGATC
GTACTCAGATTGCCCTCAGTCCCAATAATCACGAAGTGCACATCTATAAGAAGAACGGGA
GCCAGTGGGTGAAAGCTCATGAACTCAAGGAGCACAACGGACACATCACAGGTATTGACT
GGGCTCCCAAGAGCGACCGCATTGTCACTTGTGGGGCAGACCGCAATGCCTATGTCTGGA
GTCAGAAAGATGGTGTTTGGAAGCCAACCCTGGTGATCCTGAGAATTAATCGCGCAGCTA
CTTTTGTGAAGTGGTCCCCCCTAGAGAACAAATTTGCTGTGGGAAGTGGAGCACGACTCA
TTTCTGTTTGTTACTTTGAGTCTGAAAATGACTGGTGGGTGAGCAAGCACATTAAAAAGC
CGATTCGCTCCACAGTCCTCAGCTTGGATTGGCATCCCAACAACGTTTTGCTGGCAGCAG
GATCATGTGACTTCAAATGCAGAGTGTTTTCTGCCTACATTAAAGAAGTGGATGAAAAGC
CAGCCAGCACGCCCTGGGGCAGCAAGATGCCTTTTGGGCAGCTGATGTCAGAGTTTGGTG
GCAGTGGCACTGGTGGCTGGGTCCACGGGGTAAGCTTCTCTGCCAGTGGGAGCCGNCTGG
CCTGGGTCAGCCCGACAGCACGTGTCTGGTGCTGATGCCTCACAAAGTGTGCACGTCTCG
ACTCTGAGGACAGANTCCTGGCGCTCCCTAGTGTGTCATTNGTCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006409 unedited
GTCCGCGGCCGCTTATCTANATCGAGNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTCCCCATTCAGTTCTTTTTATTTAATTTTCTAGGGGACAATTTACATATCT
CCCTCACCCTGTTTTTTAAGTTAGGGGGACAATTTTCCATAATAAACTACTTAAAAAAAA
CCTTTGGTCAAAAATGGAATGAAATCCCAAAAAAACAAACAAAAAATTTACTGCCTTAAA
AAAACCAACACTTTCACCAATTTTATTTTCAAACAAAACCACCCGGCTTTGGCGGGATAT
GGGTTTTCAGGGTTTCCTTGGGGCTGGCTTCCTCGCCATCGGGCCACGGCACATTTGGGG
TCGGCCACATTTTGTCATGCTGGATGGCGGAGGCTCACTCAGCTTCACATTATCCGGAGG
CCCTGGATGGAAAACTCGAGGGTCTTGAAACCCCAAATGGTCATGGCTCCATCGATCCCA
GTAGGGCAAAATTTGCGACATTTTTGTTTGTCCACCTCATAAATAAAAACTTGAGTGATG
CTATTCTGGGGCAGCGTCTCCAAGGCCGTGTTGCGGTCCTAAGTTGGGGCTTTTTTGTCC
ATGTGGCGGAAGCGTTCCATTGGCAAACATGTGGCGTGGGATGCTCTGTTTGGAAAATCT
AACTTGGAAACAAAGGCCAGGCCCCCGCGGTCATCCTATATAAAAACATTGGGCAACAGT
TCTGGCCATCAACCCCAAACCTTGTTTTTTGAGAAATAGAACCCCTTAGGAGCGGGAAGA
ACTTTGTTTTAAAAGCAAAACCTGCCCTTTTTGAGGCTTTACAAAAACACGGGCTTTTGG
GGTTGACCAGCCCAGGGGTTCTCATGGCAAATAATTACCCCGGTGCCCACCCCCAGGCCC
TGGCCCCAATTTTGATG

Restriction Sites: ECoRI-NOT

ACCN: NM_006409

Insert Size: 1670 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).

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).