

Product datasheet for **SC112682**

p16 ARC (ARPC5) (NM_005717) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p16 ARC (ARPC5) (NM_005717) Human Untagged Clone
Tag:	Tag Free
Symbol:	p16 ARC
Synonyms:	ARC16; dj127C7.3; p16-Arc
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_005717 edited
 GAATTCGGCAGGAGGTGAATCAGGCGCCGGTAGTGGGTTGCTGGGCTGGGCTTGTCTGA
 GGTAGAGGCAGCGCCAAGAAGAGGCCTTTGCCGCTGGTCGGGATTGGGATGTCGAAGAAC
 ACAGTGTCTGCGCCCGCTTCCGGAAGGTGGACGTGGATGAATATGACGAGAACAAGTTC
 GTGGACGAAGAAGATGGGGGCGACGCCAGGCCGGGCCGACGAGGGCGAGGTGGACTCC
 TGCTCGGCAAGGAAACATGACAGCTGCCCTACAGGCAGCTCTGAAGAACCCCCCTATC
 AACACCAAGAGTCAGGCAGTGAAGGACCGGGCAGGCAGCATTGTCTTGAAGGTGCTCATC
 TCTTTAAAGCTAATGATATAGAAAAGGCAGTTCAATCTCTGGACAAGAATGGTGTGGAT
 CTCCTAATGAAGTATATTTATAAAGGATTTGAGAGCCCGTCTGACAATAGCAGTGTATG
 TTAAGTGAATGTCATGAAAAGGCACTTGTCTGCTGGAGGAGTAGGGTCCATTGTTCTGTCT
 TTGACTGCAAGAAAACTGTGTAGTCTGGCAGGAAGTGGATTATCTGCCTCGGGAGTGGG
 AATTGCTGGTACAAGACCAAAACAACCAATGCCACCGTGCCTGTGGGTAGCATCTG
 TTTCTCTCAGCTTTCCTTCTTGTCTTTTCATATCTGTAAGAAAAAAATACATATCAG
 TTGTCCTTAATGAAAAATGGGATAATATAGAAGAAATTTGTGTTAAAATAGAAGTGTTC
 ATCCTTTCAAACCATTTTCAGTGTATTTATACCAATCTGTATATAGTATAATTTACATT
 CAAGTTTAATTGTGCAACTTTTAAACCCCTGTGGCTGGTTTTTTGTTCTGTTTTGTTTTG
 TATTATTTTAACTAATACTGAGAGATTTGGTCAGAATTTGAGGCCAGTTTCTAGCTCA
 TTGCTAGTCAGGAAATGATATTTATAAAAAATATGAGAGACTGGCAGCTATTAACATTGC
 AAACTGGACCATATTTCCCTTATTTAATAAGCAAAATATGTTTTTGGAAATAAGTGGTGG
 GTGAATACCACTGCCAAGTTATAGCTTTGTTTTGCTTGCCTCCTGATTATCTGTACTGT
 GGGTTTAAAGTATGCTACTTTCTCTCAGCATCCAATAATCATGGCCCTCAATTTATTTGT
 GGTCAACCCAGGGTTCAGAGCAAGAAGTCTTGTCTTATACAAATGTATCCATAAAAAATCA
 GAGCTTGTGGGCATGAACATCAAATTTGTTCCACTAATATGGCTCTGTTTGGAAAAA
 ACTGCAAAATCAGAAAGAATGATTTGAGAAAGAAGAAAAACTATGGTGTAAATTTAAACT
 CTGGGCAGCCTCTGAATGAAATGCTACTTTCTTTAGAAATATAATAGCTGCCTTAGACAT
 TATGAGGTATACAAGTATTTAAGATACCATTTAATATGCCCCGTAATGTCTTCAGT
 GTTCTTCAGGGTAGTTGGGATCTCAAAAGATTTGGTTCAGATCCAAACAAATACACATTC
 TGTGTTTTAGCTCAGTGTCTTCTAAAAAAGAACTGCCACACAGCAAAAAATGTTTAC
 TTTGTTGGACAAACCAATCAGTCTCTCAAAAAATGACCGGTGCTTATAAAAAAGTTATAAA
 TATCGAGTAGCTCTAAAACAAACCCTGACCAAGAGGGAAGTGAAGCTTGTGCTTAGTAT
 TTACATTGGATGCCAGTTTTGTAATCACTGACTTATGTGCAAACCTGGTGCAGAAATCTA
 TAAACTCTTGTGTTTTGATACCTGCTTTTTGTTTCATTTTGTGTTTTGTGTTTTGAAAAA
 TGATAAACTTCAGAAAATAAAATGTCAGTGTGAATAAAAAAAAAAAAAAAAAAACTCGA
 C

5' Read Nucleotide Sequence: >OriGene 5' read for NM_005717 unedited
 TTGTATACGACTCACTATAGGGCGCCGGAATTCGCACGAGGTGAATCAGGCGCCGGG
 TAGTGGGTTGCTGGGCTGGGCTTGTCTGAGGTAGAGGCAGCGCAAGAAGAGGCCTTTGCC
 GCTGGTCGGGATTGGGATGTCGAAGAACACAGTGTCTGCGGCCCGCTTCCGGAAGGTGGA
 CGTGGATGAATATGACGAGAACAAGTTCGTGGACGAAGAAGATGGGGGCGACGGCCAGGC
 CGGGCCCGACGAGGGCGAGGTGGACTCCTGCCTGCGGCAAGGAAACATGACAGTGCCT
 ACAGGCAGCTCTGAAGAACCCCTATCAACACCAAGAGTCAGGCAGTGAAGGACCGGGC
 AGGCAGCATTGTCTTGAAGGTGCTCATCTCTTTAAAGCTAATGATATAGAAAAGGCAGT
 TCAATCTCTGGACAAGAATGGTGTGGATCTCCTAATGAAGTATATTTATAAAGGATTTGA
 GAGCCCGTCTGACAATAGCAGTGTATGTTACTGCAATGGCATGAAAAGGCAGTGTCTGC
 TGGAGGAGTAGGGTCCATTGTTCTGTCTTACTGCAAGAAAAACTGTGTAGTCTGGCAG
 GAAGTGGATTATCTGCCTCGGGAGTGGGAATTGCTGGTACAAAGACCAAAACAACCAAAAT
 GCCACCGCTGCCCTGTGGGTAGCATCTGTTTCTCTCAGCTNTGCCTTCTTGTCTTTTCAT
 ATCTGTAAGAANAATACATATCAGTTTGTCTTTAATGANATTGGGATATATAGAAG
 AAATGTGTTAAATAGNAAGTGTTCATTCTTTCAAACCATTTTCAGGTGATGTTATACCAT
 CTGTATATAGGATAATTACATTCAGTTTATTGTGCACTTTTACCCTGTNGGCTGGNNT
 TTGGNTCCGGTTTGGNNTTGGAT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005717 unedited GCACGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTTTATTCAACACTGACATTTTATTT TCTGAAGTTTTATCATTTTTACAAAACAAAACAAAATGAAACAAAAGCAGGTATCAAAA ACAGCAAAGAGTTTATAGAATTTCTGCACCAGTTTGCACATAAGTCAGTGATTACAAAAC TGGCATCCAATGTAATACTAAGCACAAGCTCACTTCCCTCTTGGTCAGGTGGTTTGTTT TAAAGTACTCGATATTTATAACTTTTTATAAGCACCGGTCATTTTTTTGAGAACTGATTT GGTTTGTTCCAACAAAGTAAACAATTTTTGCTGTGTGGCAGTTTCTTTTTTAGAAAACA CTGAGCTAAAACACAGAATGTGTATTTGTTGGATCTGAACCAAATCTTTTGAGATCCCA ACTACCCTGAAGAACACTGAAGACATTTACGGGGCATATTAATGGTATCTTAAACTACTA GTTGTATACCTCATAATGTCTAAGGCAGCTATTATTTCTAAAGAAAGTAGCATTTTCAT TCAGAGGTGCCAGAGTTTAAATTACACCATAGTTTTTCTTTCTTTCTGCAAATCATTCT TTTCTGATTTGCAGTTTTTCCAAACAGAGCCATATTAGTGAACAAAAGTTTGATGTTCT ATGCCCAACAGCCTCTGATATTTTATGGATACATTTGTATAAAGCAAGACTTCTTGCTCT GAACCCTGGGTGACCACAATATAATTGAGGGGCCATGATTATTGGATGCTGAGAGAAGTA GCCTACTTAAACCCAGTTCAGATAATCACGAGGGCATGCAAACCAAGCTATAACTTGGC AGTGTGATTTACCACCCACTTATGCCAAAACATTATTTGCTTATTAATTAAGGAAAAAT GGCCAGGTTTGGCATGTTAATAACTGCAGGCTCTATTTTTTATAAATCATTCTGATA GAAGGAGCAGAACTGCCTCAATTCGACAAACT
Restriction Sites:	NotI-NotI
ACCN:	NM_005717
Insert Size:	1920 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:	<ol style="list-style-type: none"> 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:	<u>NM_005717.2</u> , <u>NP_005708.1</u>
RefSeq Size:	2000 bp
RefSeq ORF:	456 bp
Locus ID:	10092
UniProt ID:	<u>O15511</u>
Cytogenetics:	1q25.3
Domains:	p16_Arc

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. The Arp2/3 protein complex has been implicated in the control of actin polymerization in cells and has been conserved through evolution. The exact role of the protein encoded by this gene, the p16 subunit, has yet to be determined. Alternatively spliced transcript variants encoding different isoforms have been observed for this gene. [provided by RefSeq, Jul 2012]
Transcript Variant: This variant (1) represents the shorter transcript and encodes the shorter protein (isoform 1).