

Product datasheet for RC212631

p16 ARC (ARPC5) (NM_005717) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids Tag: Myc-DDK Symbol: p16 ARC Synonyms: ARC16; dJ127C7.3; p16-Arc **Mammalian Cell** Neomycin Selection: Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL) >RC212631 representing NM_005717 **ORF** Nucleotide Red=Cloning site Blue=ORF Green=Tags(s) Sequence: TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCGAAGAACACAGTGTCGTCGGCCCGCTTCCGGAAGGTGGACGTGGATGAATATGACGAGAACAAGT GCAAGGAAACATGACAGCTGCCCTACAGGCAGCTCTGAAGAACCCCCCTATCAACACCAAGAGTCAGGCA GTGAAGGACCGGGCAGGCAGCATTGTCTTGAAGGTGCTCATCTCTTTTAAAGCTAATGATATAGAAAAGG CAGTTCAATCTCTGGACAAGAATGGTGTGGATCTCCTAATGAAGTATATTTATAAAGGATTTGAGAGCCC GTCTGACAATAGCAGTGCTATGTTACTGCAATGGCATGAAAAGGCACTTGCTGCTGGAGGAGTAGGGTCC ATTGTTCGTGTCTTGACTGCAAGAAAAACTGTG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA **Protein Sequence:** >RC212631 representing NM_005717 Red=Cloning site Green=Tags(s) MSKNTVSSARFRKVDVDEYDENKFVDEEDGGDGQAGPDEGEVDSCLRQGNMTAALQAALKNPPINTKSQA VKDRAGSIVLKVLISFKANDIEKAVQSLDKNGVDLLMKYIYKGFESPSDNSSAMLLQWHEKALAAGGVGS **IVRVLTARKTV** TRTRPLEQKLISEEDLAANDILDYKDDDDKV Chromatograms: https://cdn.origene.com/chromatograms/mk6487 g05.zip **Restriction Sites:** Sgfl-Mlul

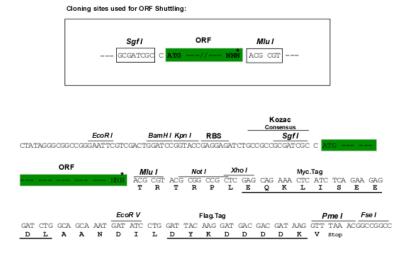
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9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Cloning Scheme:



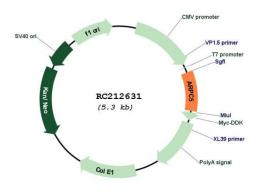
* The last codon before the Stop codon of the ORF

ACCN:	NM_005717
ORF Size:	453 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 005717.4</u>
RefSeq Size:	2000 bp
RefSeq ORF:	456 bp
Locus ID:	10092

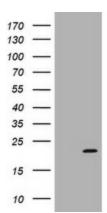
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GRIGENE p16 ARC (ARPC5) (NM_005717) Human Tagged ORF Clone RC212631	
UniProt ID:	<u>015511</u>
Cytogenetics:	1q25.3
Domains:	p16_Arc
Protein Pathways:	Fc gamma R-mediated phagocytosis, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton
MW:	16.1 kDa
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]

Product images:

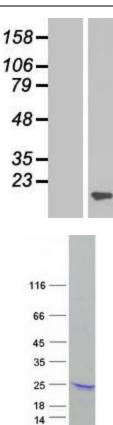


Circular map for RC212631



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ARPC5 (Cat# RC212631, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ARPC5(Cat# [TA505696]). Positive lysates [LY417115] (100ug) and [LC417115] (20ug) can be purchased separately from OriGene.

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Western blot validation of overexpression lysate (Cat# [LY417115]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212631 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified ARPC5 protein (Cat# [TP312631]). The protein was produced from HEK293T cells transfected with ARPC5 cDNA clone (Cat# RC212631) using MegaTran 2.0 (Cat# [TT210002]).

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