

## Product datasheet for **RC200319**

### ARPC2 (NM\_005731) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARPC2 (NM_005731) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARPC2
Synonyms:	ARC34; p34-Arc; PNAS-139; PRO2446
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC200319 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGATCCTGCTGGAGGTGAACAACCGCATCATCGAGGAGACGCTCGCGCTCAAGTTCGAGAACCGCGCCG  
CCGAAACAAACCGGAAGCAGTAGAAGTAACATTTGCAGATTCGATGGGGTCTCTATCATATTTCAA  
TCCTAATGGAGACAAAACAAAAGTGATGGTCAGTATTTCTTTGAAATTCTACAAGAACTTCAGGCACAT  
GGTGTGATGAGTTATTAAGAGGGTGTACGGGAGTTTCTTGGTAAATCCAGAATCAGGATACAATGTCT  
CTTTGCTATATGACCTTGAAAATCTTCCGGCATCCAAGGATCCATTGTGCATCAAGCTGGCATGTTGAA  
GCGAAATTGTTTTGCCTCTGTCTTTGAAAAATACTTCCAATTCCAAGAAGAGGGCAAGGAAGGAGAGAAC  
AGGGCAGTTATCCATTATAGGGATGATGAGACCATGTATGTTGAGTCTAAAAAGGACAGAGTCACAGTAG  
TCTTCAGCACAGTGTTAAGGATGACGACGATGTGGTCATTGGAAAGGTGTTTCATGCAGGAGTTCAAAGA  
AGGACGCAGAGCCAGCCACACAGCCCCACAGGTCCTCTTAGCCACAGGGAACCTCTCTGGAGCTGAAA  
GACACAGACGCCGCTGTGGGTGACAACATTGGCTACATTACCTTTGTGCTGTTCCCTCGTCACACCAATG  
CCAGTGTCTGAGACAACCCATCAACCTGATCCACACGTTCCGGGACTACCTGCATACCCATCAAGTG  
CTCTAAGGCCTATATTCACACAGTATGCGGGCGAAAACGTCTGACTTCCTCAAGGTGCTGAACCGCGCA  
CGCCAGATGCCGAGAAAAAAGAAATGAAAACAATCACGGGAAGACGTTTTTCATCCCGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC200319 protein sequence  
 Red=Cloning site Green=Tags(s)

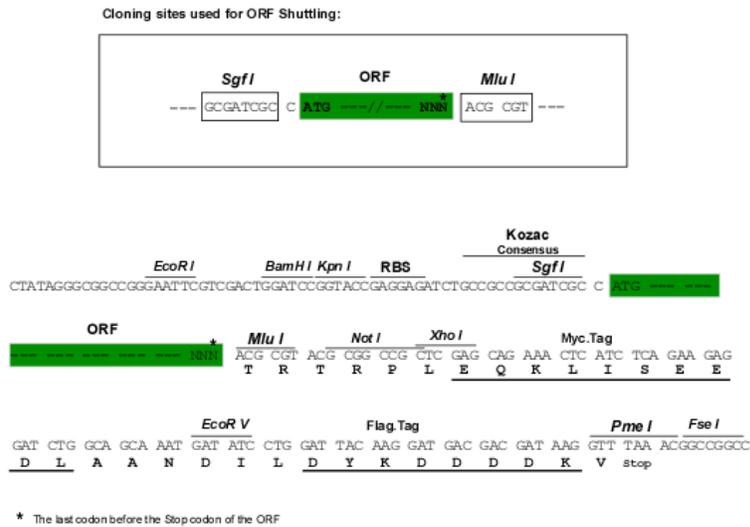
MILLEVNNRIIEETLALKFENAAAGNKPEAVEVTFADFDGVLHYISNPNGDKTKVMVSI SLKFYKELQAH  
 GADELLKR VYGSFLVNPESGYNSLLYDLENLPASKDSIVHQAGMLKRNCFA SVFEKYFQFQEEGKEGEN  
 RAVIHYRDEETMYVESKKDRVT VVFSTVFKDDDDVVIGKVF MQEFKEGRRASHTAPQVLF SHREPPLELK  
 DTDAAVGDNIGYITFVLFPRHTNASARDNTINLIHTFRDYLHYHIKCSKAYIHTRMRAKTSDFLKVLNRA  
 RPDAAEKEMKTI TGKTFSSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

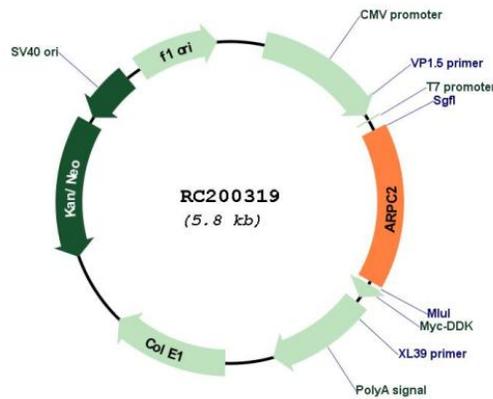
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6129\\_d11.zip](https://cdn.origene.com/chromatograms/mk6129_d11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

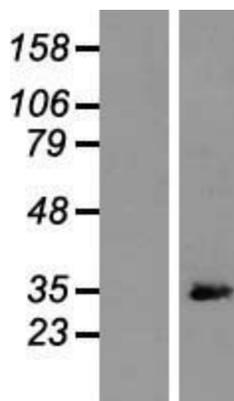


**Plasmid Map:**

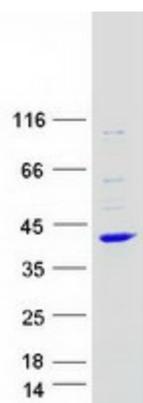


**ACCN:** NM\_005731

<b>ORF Size:</b>	900 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005731.3</a>
<b>RefSeq Size:</b>	1419 bp
<b>RefSeq ORF:</b>	903 bp
<b>Locus ID:</b>	10109
<b>UniProt ID:</b>	<a href="#">O15144</a>
<b>Cytogenetics:</b>	2q35
<b>Domains:</b>	p34-Arc
<b>Protein Pathways:</b>	Fc gamma R-mediated phagocytosis, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton
<b>MW:</b>	34.3 kDa
<b>Gene Summary:</b>	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 p34 subunit, has yet to be determined. Two alternatively spliced variants have been characterized to date. Additional alternatively spliced variants have been described but their full length nature has not been determined. [provided by RefSeq, Jul 2008]

**Product images:**

Western blot validation of overexpression lysate (Cat# [LY407180]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC223208] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ARPC2 protein (Cat# [TP300319]). The protein was produced from HEK293T cells transfected with ARPC2 cDNA clone (Cat# RC200319) using MegaTran 2.0 (Cat# [TT210002]).