

Product datasheet for RC223208

ARPC2 (NM_152862) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARPC2 (NM_152862) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARPC2
Synonyms:	ARC34; p34-Arc; PNAS-139; PRO2446
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223208 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCCTGCTGGAGGTGAACAACCGCATCATCGAGGAGACGCTCGCGCTCAAGTTCGAGAACCGGGCCG
CCGAAACAAACCGGAAGCAGTAGAAGTAACATTTGCAGATTCGATGGGGTCTCTATCATATTTCAA
TCCTAATGGAGACAAAACAAAGTGATGGTCAGTATTTCTTTGAAATTCTACAAGAACTTCAGGCACAT
GGTGTGATGAGTTATTAAGAGGGTGTACGGGAGTTTCTTGGTAAATCCAGAATCAGGATACAATGTCT
CTTTGCTATATGACCTTGAAAATCTTCCGGCATCCAAGGATTCATTGTGCATCAAGCTGGCATGTTGAA
GCGAAATTGTTTTGCCTCTGTCTTTGAAAATACTTCCAATTCAGAAGAGGGCAAGGAAGGAGAGAAC
AGGGCAGTTATCCATTATAGGGATGATGAGACCATGTATGTTGAGTCTAAAAGGACAGAGTCAAGTAG
TCTTCAGCACAGTGTTAAGGATGACGACGATGTGGTCATTGGAAGGTGTTTCATGCAGGAGTTCAAAGA
AGGACGCAGAGCCAGCCACACAGCCCCACAGGTCTTTAGCCACAGGGAACCTCTCTGGAGCTGAAA
GACACAGACGCCGCTGTGGGTGACAACATTGGCTACATTACCTTTGTGCTGTTCCCTCGTACACCAATG
CCAGTGTCTGAGACAACACCATCAACCTGATCCACACGTTCCGGGACTACCTGCACTACCCATCAAGTG
CTCTAAGGCCTATATTCACACACGATGCGGGCGAAAACGCTGACTTCTCAAGGTGCTGAACCCGCA
CGCCCAGATGCCGAGAAAAAGAAATGAAAACAATCACGGGAAGACGTTTTTCATCCCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC223208 protein sequence
 Red=Cloning site Green=Tags(s)

MILLEVNNRIIEETLALKFENAAAGNKPEAVEVTFADFDGVL YHISNPNGDKTKVMVSISLKFYKELQAH
 GADELLKR VYG SFLVNPESGYNVSLLYDLENLPASKDSIVHQAGMLKRNCFA SVFEKYFQFQEEGKEGEN
 RAVIHYRDEETMYVESKKDRVT VV FSTVFKDDDDVVIGKVF MQEFKEGRRASHTAPQVLF SHREPPLELK
 DTDAAVGDNIGYITFVLFPRHTNASARDNTINLIHTFRDYLHYHIKCSKAYIHTMRRAKTSDFLKVLNRA
 RPD AEKKEMKTI TGKTFSSR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKVV

Chromatograms: https://cdn.origene.com/chromatograms/mk6129_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152862

ORF Size: 900 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. [More info](#)

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:

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_152862.3](#)

RefSeq Size: 1514 bp

RefSeq ORF: 903 bp

Locus ID: 10109

UniProt ID: [O15144](#)

Cytogenetics: 2q35

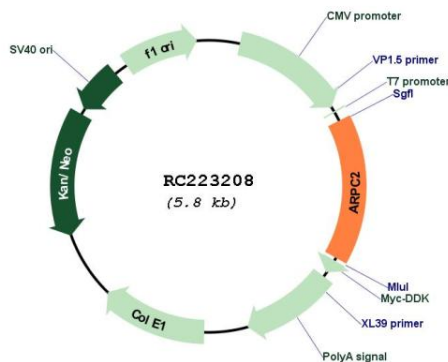
Domains: p34-Arc

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

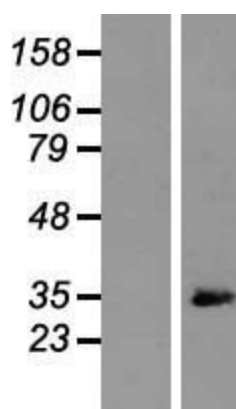
MW: 34.3 kDa

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 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:



Circular map for RC223208



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]).