

## Product datasheet for **RC209711**

### p21 ARC (ARPC3) (NM\_005719) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** p21 ARC (ARPC3) (NM\_005719) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** p21 ARC  
**Synonyms:** ARC21; p21-Arc  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC209711 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGGCTTACCACTCTTCTCATGGATCCTGATACCAAACATCGGAAACATGGCACTGTTGCCTA  
TCAGAAGTCAATTCAAAGGACCTGCCCCAGAGAGACAAAAGATACAGATATTGTGGATGAAGCCATCTA  
TTACTTCAAGCCAATGTCTTCAAACAACTATGAAATTAAGAATGAAGCTGATAGGACCTTGATATAT  
ATAACTCTACATTTCTGAATGTCTGAAGAACTGCAAAAGTCAATTCAAAAGCCAAGGTGAGAAAG  
AAATGTATACGCTGGGAATCACTAATTTTCCATTCTGGAGAGCCTGGTTTTCCACTTAACGCAATTTA  
TGCCAAACCTGCAACAAACAGGAAGATGAAGTATGAGAGCCTATTTACAACAGCTAAGGCAAGAGACT  
GGACTGAGACTTTGTGAGAAAGTTTTCGACCCTCAGAATGATAAACCCAGCAAGTGGTGGACTTGCTTTG  
TGAAGAGACAGTTCATGAACAAGAGTCTTTCAGGACCTGGACAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC209711 protein sequence  
Red=Cloning site Green=Tags(s)

MPAYHSSLMDPDKLIGNMALLPIRSQFKGPAPRETKDIDVDEAIYYFKANVFFKNYEIKNEADRTLII  
ITLYISECLKKLQKCNKSKQGEKEMYTLGITNFPPIPGEPGFPLNAIYAKPANKQEDEVMRAYLQQLRQET  
GLRLCEKVFDPQNDKPSKWWTCFVKRQFMNKSLSGPGQ

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

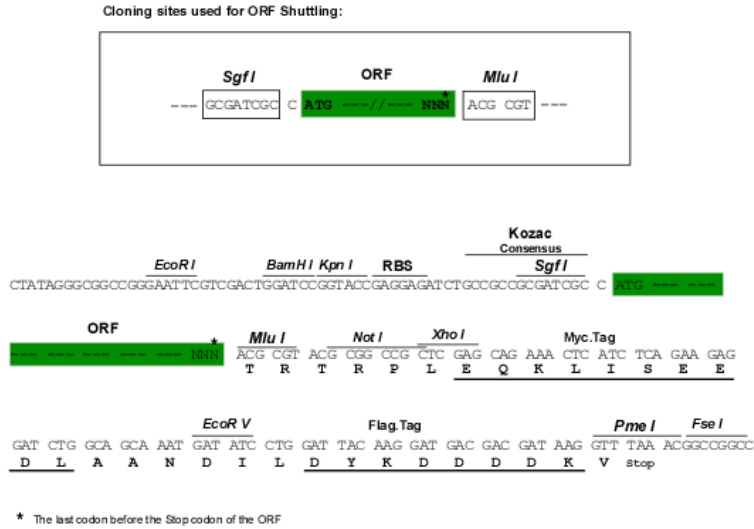
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6125\\_f08.zip](https://cdn.origene.com/chromatograms/mk6125_f08.zip)



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_005719

ORF Size: 534 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\\_005719.2](#), [NP\\_005710.1](#)

RefSeq Size: 962 bp

RefSeq ORF: 536 bp

Locus ID: 10094

Cytogenetics: 12q24.11

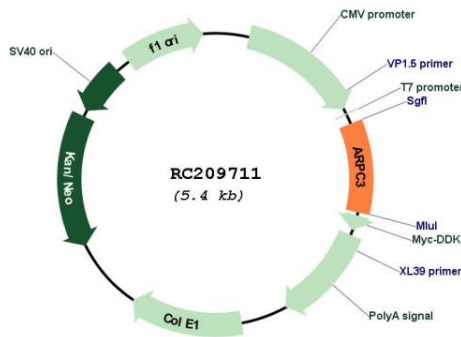
**Domains:** P21-Arc

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

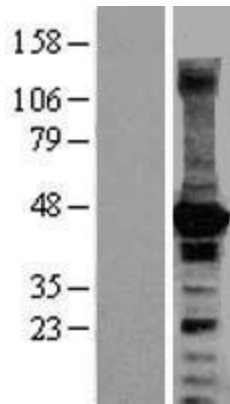
**MW:** 20.5 kDa

**Gene Summary:** This gene encodes one of seven subunits of the human Arp2/3 protein complex. The Arp2/3 protein complex has been conserved through evolution and is implicated in the control of actin polymerization in cells. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2013]

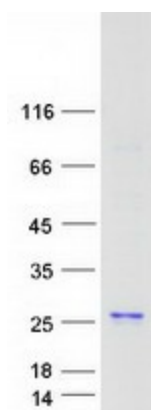
**Product images:**



Circular map for RC209711



Western blot validation of overexpression lysate (Cat# [LY401745]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209711 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ARPC3 protein (Cat# [TP309711]). The protein was produced from HEK293T cells transfected with ARPC3 cDNA clone (Cat# RC209711) using MegaTran 2.0 (Cat# [TT210002]).