

Product datasheet for **RG209711**

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: TurboGFP
Symbol: p21 ARC
Synonyms: ARC21; p21-Arc
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209711 representing NM_005719
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGGCTTACCACTCTTCTCATGGATCCTGATACCAAACATCGGAAACATGGCACTGTTGCCTA
 TCAGAAGTCAATCAAAGGACCTGCCCCAGAGAGACAAAAGATACAGATATTGTGGATGAAGCCATCTA
 TTA~~CTT~~CAAGCCAATGTCTTCAA~~AA~~ACTATGAAATTAAGAATGAAGCTGATAGGACCTTGATATAT
 ATA~~ACT~~CTCTACATTTCTGAATGTCTGAAGAACTGCAAAAGTCAATTC~~AAA~~AGCCAAGGTGAGAAAG
 AAATGTATACGCTGGGAATCACTAATTTCCCATTCCTGGAGAGCCTGGTTTTCCACTTAACGCAATTTA
 TGCCAAACCTGCAACAAACAGGAAGATGAAGTGATGAGAGCCTATTTACAACAGCTAAGGCAAGAGACT
 GGACTGAGACTTTGTGAGAAAGTTTTCGACCCTCAGAATGATAAACCCAGCAAGTGGTGGACTTGCTTTG
 TGAAGAGACAGTTCATGAACAAGAGTCTTTCAGGACCTGGACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209711 representing NM_005719
 Red=Cloning site Green=Tags(s)

MPAYHSSLMDPDKLIGNMALLPIRSQFKGPAPRETKD~~TD~~IVDEAIYYFKANVFFKNYEIKNEADRTLIY
 ITLYI~~SE~~CLKKLQKCN~~SK~~SQGEKEMYTLGITNFP~~IP~~GEPGFPLNAIYAKPANKQEDEV~~MR~~AYLQQLRQET
 GLRLCEKVFDPQNDKPSK~~W~~WTCFV~~KR~~QFMN~~KS~~LSGPGQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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: 912 bp

RefSeq ORF: 536 bp

Locus ID: 10094

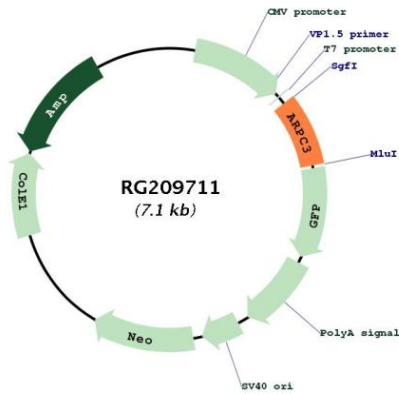
Cytogenetics: 12q24.11

Domains: P21-Arc

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

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 RG209711