

Product datasheet for **RG223208**

ARPC2 (NM_152862) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ARPC2 (NM_152862) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ARPC2
Synonyms: ARC34; p34-Arc; PNAS-139; PRO2446
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG223208 representing NM_152862
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCCTGCTGGAGGTGAACAACCGCATCATCGAGGAGACGCTCGCGCTCAAGTTCGAGAACCGGCCCG
CCGGAACAAACCGAAGCAGTAGAAGTAACATTTGCAGATTCGATGGGGTCTCTATCATATTTCAA
TCCTAATGGAGACAAAACAAAGTGATGGTCAGTATTTCTTTGAAATTCTACAAGAACTTCAGGCACAT
GGTGTGATGAGTTATTAAGAGGGTGTACGGGAGTTTCTTGGTAAATCCAGAATCAGGATACAATGTCT
CTTTGCTATATGACCTTGAAAATCTTCCGGCATCCAAGGATTCATTGTGCATCAAGCTGGCATGTTGAA
GCGAAATTGTTTTGCCTCTGTCTTTGAAAATACTTCCAATCCAAGAAGAGGGCAAGGAAGGAGAGAAC
AGGGCAGTTATCCATTATAGGGATGATGAGACCATGTATGTTGAGTCTAAAAGGACAGAGTACAGTAG
TCTTCAGCACAGTGTTAAGGATGACGACGATGTGGTCATTGAAAGGTGTTTCATGCAGGAGTTCAAAGA
AGGACGCAGAGCCAGCCACACAGCCCCACAGGTCTTTAGCCACAGGGAACCTCTCTGGAGCTGAAA
GACACAGACGCCGCTGTGGGTGACAACATTGGCTACATTACCTTTGTGCTGTTCCCTCGTACACCAATG
CCAGTGTCTGAGACAACACCATCAACCTGATCCACACGTTCCGGGACTACCTGCACTACCCATCAAGTG
CTCTAAGGCCTATATTCACACACGATGCGGGCGAAAACGCTGACTTCTCAAGGTGCTGAACCCGCGCA
CGCCCAGATGCCGAGAAAAAGAAATGAAAACAATCACGGGAAGACGTTTTTCATCCCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223208 representing NM_152862
Red=Cloning site Green=Tags(s)

MILLEVNNRIIEETLALKFENAAAGNKPEAVEVTFADFDGVLHYHISNPNGDKTKVMVSIKLFYKELQAH
 GADELLKRYYGSFLVNPESGYNSLLYDLENLPASKDSIVHQAGMLKRNCFAVFEKYFQFQEEGKEGEN
 RAVIHYRDEETMYVESKKDRVTVVFSTVFKDDDDVIGKVFMQEFKEGRRASHTAPQVLFSHREPPLELK
 DTDAAVGDNIGYITFVLFPRHTNASARDNTINLIHTFRDYLHYHIKCSKAYIHTRMRAKTSDFLKVLNRA
 RPDAEKKEMKTIITGKTFSSR

TRTRPLE - GFP Tag - V

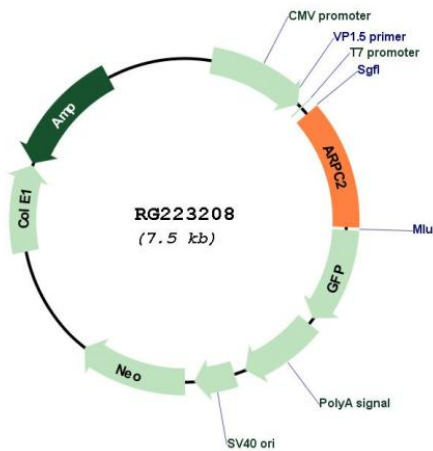
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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:	<ol style="list-style-type: none">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:	1462 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
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]