

## Product datasheet for **RG230814**

### ARPC1A (NM\_001190996) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARPC1A (NM_001190996) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARPC1A
Synonyms:	Arc40; HEL-68; HEL-S-307; SOP2Hs; SOP2L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG230814 representing NM_001190996 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCACTGCATCAGTTTTTACTAGAGCCAATCACCTGTCATGCCTGGAACAGGGATCGTACTCAGATTG  
CCCTCAGTCCCAATAATCACGAAGTGCACATCTATAAGAAGAACGGGAGCCAGTGGGTGAAAGCTCATGA  
ACTCAAGGAGCACAAACGGACACATCACAGGATTGACTGGGCTCCAAGAGCGACCGCATTGTCCTTGT  
GGGGCAGACCGCAATGCCTATGTCTGGAGTCAGAAAGATGGTGTGGGAAGCAACCTGGTGATCTGA  
GAATTAATCGCGCAGCTACTTTTGTGAAGTGGTCCCCCTAGAGAACAAATTTGCTGTGGGAAGTGGAGC  
ACGACTCATTCTGTTTGTACTTTGAGTCTGAAAATGACTGGTGGGTGAGCAAGCACATTAAGGAGCCG  
ATTCGCTCCACAGTCTCAGCTTGGATTGGCATCCCAACAACGTTTTGCTGGCAGCAGGATCATGTGACT  
TCAAAATGCAGAGTGTCTTCTGCCTACATTAAGAAGTGGATGAAAAGCCAGCCAGCACGCCTGGGGCAG  
CAAGATGCCTTTTGGGCAGCTGATGTCAGAGTTTGGTGGCAGTGGCACTGGTGGCTGGGTCCACGGGGTA  
AGCTTCTCTGCCAGTGGGAGCCGCTGGCTGGGTGAGCCAGCAGCAGCACCGTGTCTGTTGCTGATGCCT  
CAAAAAGTGTGCAGGTCTCGACTCTGAAGACAGAGTTCCTGCCGCTCCTAAGTGTGCATTTGTCTCAGA  
GAACAGCGTCGTGGCTGCTGGCCATGACTGCTGCCAATGCTCTTAACTACGATGACCGCGGCTGCCTG  
ACCTTCGCTCCAAGTTAGATATTCCAAAACAGAGCATCCAACGCAACATGTCTGCCATGGAACGCTTCC  
GCAACATGGACAAGAGAGCCACAACCTGAGGACCGCAACACGGCCTTGAGAGCGCTGCACCAGAATAGCAT  
CACTCAAGTCTCTATTTATGAGGTGGACAAGCAAGATTGTCGCAATTTTGCCTACTGGCATCGATGGA  
GCCATGACAATTTGGATTTCAAGACCCTCGAGTCTTCCATCCAGGGCCTCCGGATAATG

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG230814 representing NM\_001190996  
Red=Cloning site Green=Tags(s)

MSLHQFLLEPITCHAWNDRDTQIALSPNNHEVHIYKKNQSQWVKAHELKEHNGHITGIDWAPKSDRIVTC  
 GADRNAYVWSQKDGWVKPTLVILRINRAATFVKWSPLENKFVAVGSGARLISVCYFESENDWVSKHIKPK  
 IRSTVLSLDWHPNNVLLAAGSCDFKCRVFSAYIKEVDEKPASTPWGSKMPFGQLMSEFEGSGTGGWVHGV  
 SFSASGSR LAWVSHDSTVSVADASKSVQVSTLKTFLPLLVSFVSENSVVAAGHDCCPMLFNYYDDRGCL  
 TFVSKLDIPKQSIQRNMSAMERFRNMDKRATTEDRNTALETLHQNSITQVSIYEVKQDCRKFCTTGIDG  
 AMTIWDFKTLESSIQGLRIM

TRTRPLE - GFP Tag - V

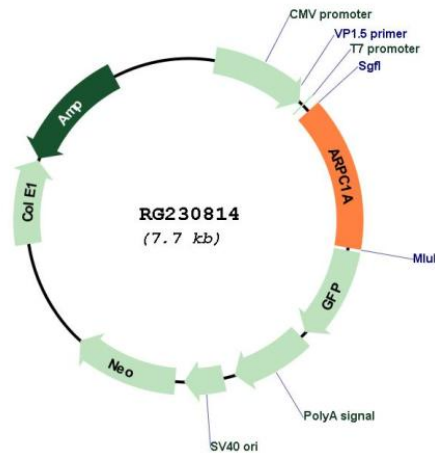
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001190996

<b>ORF Size:</b>	1068 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_001190996.1</a> , <a href="#">NP_001177925.1</a>
<b>RefSeq Size:</b>	1631 bp
<b>RefSeq ORF:</b>	1071 bp
<b>Locus ID:</b>	10552
<b>Cytogenetics:</b>	7q22.1
<b>Protein Pathways:</b>	Fc gamma R-mediated phagocytosis, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton
<b>Gene Summary:</b>	This gene encodes one of seven subunits of the human Arp2/3 protein complex. This subunit is a member of the SOP2 family of proteins and is most similar to the protein encoded by gene ARPC1B. The similarity between these two proteins suggests that they both may function as p41 subunit of the human Arp2/3 complex that has been implicated in the control of actin polymerization in cells. It is possible that the p41 subunit is involved in assembling and maintaining the structure of the Arp2/3 complex. Multiple versions of the p41 subunit may adapt the functions of the complex to different cell types or developmental stages. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2010]