

Product datasheet for **RG236310**

p21 ARC (ARPC3) (NM_001278556) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: p21 ARC (ARPC3) (NM_001278556) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ARPC3
Synonyms: ARC21; p21-Arc
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236310 representing NM_001278556.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCGGCTTACCACTCTTCTCTCATGGATCCTGATACCAAACATCGGAAACATGGCACTGTTGCCT
ATCAGAAGTCAATTCAAAGGACCTGCCCCAGAGAGACAAAAGATACAGATATTGTGGATGAAGCCATC
TATTACTTCAAGGCCAATGTCTTCTTCAAAAATGAAATTAAGAATGAAGCTGATAGGACCTTGATA
TATAACTCTCTACATTTCTGAATGTCTGAAGAACTGCAAAAGTCAATTCCAAAAGCCAAGGTGAG
AAAGAAATGTATACGCTGGGAATCACTAATTTTCCATTCTGGAGAGCCTGGTTTTCCACTTAACGCA
ATTTATGCCAAACCTGCAAAACAAACAGGAAGATGAAGTATGAGAGCCTATTTACAACAGCTAAGGCAA
GAGACTGGACTGAGACTTTGTGAGAAAGTTTTCGACCCTCAGAATGATAAACCCAGCAAGTGGTGGACT
TGCTTTGTGAAGAGACAGTTCATGAACAAGAGTCTTTCAGGACCTGGACAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236310
Blue=ORF Red=Cloning site Green=Tag(s)

```
MPAYHSSLMDPDKLIGNMALLPIRSQFKGPAPRETKDIDVDEAIYYFKANVFFKNYEIKNEADRTLII
YITLYISECLKKLQKCNKSKSQGEKEMYTLGITNFPPIGEPGFPLNAIYAKPANKQEDEVMRAYLQQLRQ
ETGLRLCEKVFDPQNDKPSKWWTCFVKRQFMNKSLSGPGQ
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI

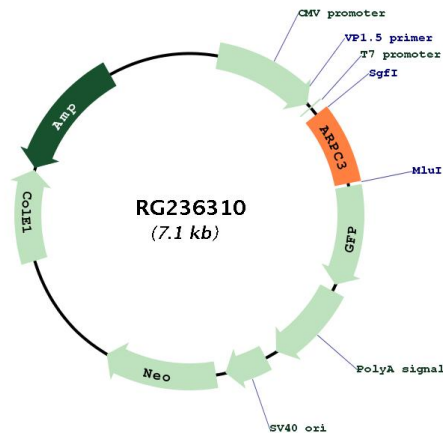


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001278556

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).
RefSeq:	<u>NM_001278556.2</u>
RefSeq Size:	962 bp
RefSeq ORF:	537 bp
Locus ID:	10094
UniProt ID:	<u>O15145</u>
Cytogenetics:	12q24.11
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]