

## Product datasheet for RC203600

### ARF6 (NM\_001663) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: ARF6 (NM\_001663) Human Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: ARF6  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >RC203600 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGGGAAGGTGCTATCCAAAATCTTCGGGAACAAGGAAATGCGGATCCTCATGTTGGGCCTGGACGCGGCCGGCAAGACAACAATCCTGTACAAGTTGAAGCTGGGCCAGTCCGGTGACCACCATTCCCCTGTGGGTTTCAACGTGGAGACGGTGACTTACAAAAATGTCAAGTTCAACGTATGGGATGTGGGCGCCAGGACAAGATCCGGCCGCTGGCGGCATTACTACACTGGGACCCAAGGTCTCATCTTCGTAGTGGACTGCGCCGACCGCCACCGCATCGATGAGGCTCGCCAGGAGCTGCACCCGATTATCAATGACCGGGAGATGAGGGACGCCATAATCCTCATCTTCGCCAACAAAGCAGGACCTGCCCGATGCCATGAAACCCACGAGATCCAGGAGAACTGGGCTGACCCGGATTGCGGACAGGAAGTGTATGTGCAGCCCTCCTGTGCCACCTCAGGGGACGGACTCTATGAGGGCTCACATGGTTAACCTCTAACTACAAATCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203600 protein sequence  
 Red=Cloning site Green=Tags(s)

MGKVLKIFGNKEMRILMLGLDAAGKTTILYKLLKLGQSVTTIPTVGFNVETVITYKNVFNVDVGGQDKIRPLWRHYTGTQGLIFVVDCAADRDRIDEARQELHRIINDREMRDAIILIFANKQDLPDAMPHEIQEKLGLTRIRDRNWWYVQPSCATSGDGLYEGLTWLTSNYKS

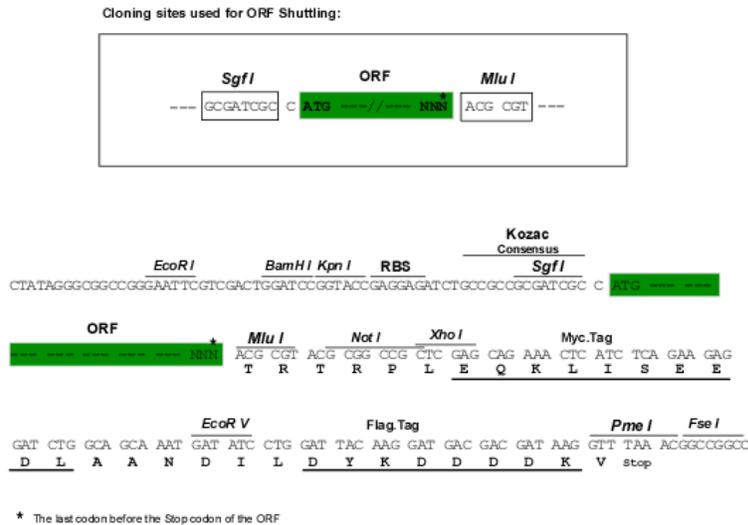
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6079\\_e01.zip](https://cdn.origene.com/chromatograms/mk6079_e01.zip)

Restriction Sites: SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001663

**ORF Size:** 525 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

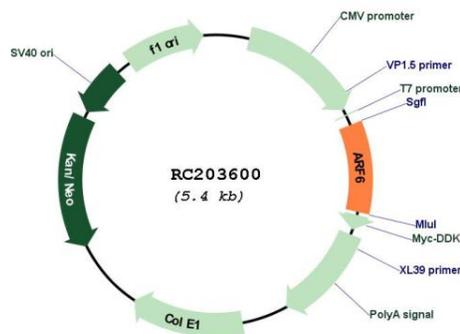
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

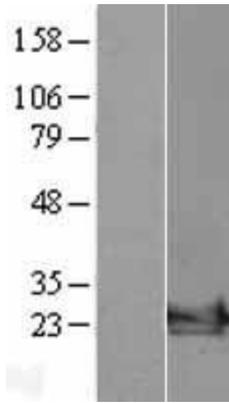
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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.

<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_001663.4</u>
<b>RefSeq Size:</b>	3939 bp
<b>RefSeq ORF:</b>	528 bp
<b>Locus ID:</b>	382
<b>UniProt ID:</b>	<u>P62330</u>
<b>Cytogenetics:</b>	14q21.3
<b>Domains:</b>	RAB, SAR, ARF, arf
<b>Protein Pathways:</b>	Endocytosis, Fc gamma R-mediated phagocytosis
<b>MW:</b>	20.1 kDa
<b>Gene Summary:</b>	This gene encodes a member of the human ARF gene family, which is part of the RAS superfamily. The ARF genes encode small guanine nucleotide-binding proteins that stimulate the ADP-ribosyltransferase activity of cholera toxin and play a role in vesicular trafficking and as activators of phospholipase D. The product of this gene is localized to the plasma membrane, and regulates vesicular trafficking, remodelling of membrane lipids, and signaling pathways that lead to actin remodeling. A pseudogene of this gene is located on chromosome 7. [provided by RefSeq, Jul 2008]

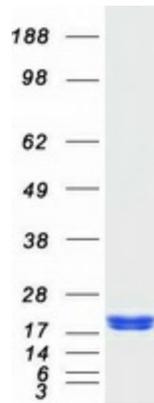
### Product images:



Circular map for RC203600



Western blot validation of overexpression lysate (Cat# [LY400629]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203600 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ARF6 protein (Cat# [TP303600]). The protein was produced from HEK293T cells transfected with ARF6 cDNA clone (Cat# RC203600) using MegaTran 2.0 (Cat# [TT210002]).