

## Product datasheet for **RG201363**

### ARF5 (NM\_001662) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: ARF5 (NM\_001662) Human Tagged ORF Clone  
 Tag: TurboGFP  
 Symbol: ARF5  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-AC-GFP (PS100010)  
 E. coli Selection: Ampicillin (100 ug/mL)  
 ORF Nucleotide Sequence: >RG201363 representing NM\_001662  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCCTCACCGTGTCCGCGCTCTTTTCGCGGATCTTCGGGAAGAAGCAGATGCGGATTTCATGGTTG  
 GCTTGGATGCGGCTGGCAAGACCACAATCCTGTACAACTGAAGTTGGGGGAGATTGTCACCACCATCCC  
 AACCATAGGCTTCAATGTAGAAACAGTGAATATAAGAACATCTGTTTCACAGTCTGGGACGTGGGAGGC  
 CAGGACAAGATTCGGCCTCTGTGGCGGCACTACTCCAGAACACTCAGGGCCTCATCTTTGTGGTGACA  
 GTAATGACCGGGAGCGGGTCCAAGAATCTGCTGATGAAGTCCAGAAGATGCTGCAGGAGGACGAGCTGCC  
 GGATGCAGTGTCTGGTATTTGCCAACCAAGCAGGACATGCCCAACGCCATGCCCGTGAGCGAGCTGACT  
 GACAAGCTGGGGCTACAGCACTTACGCAGCCGCACGTGGTATGTCCAGGCCACCTGTGCCACCAAGGCA  
 CAGGTCTGTACGATGGTCTGGACTGGCTGTCCCACGAGCTGTCAAAGCGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201363 representing NM\_001662  
 Red=Cloning site Green=Tags(s)

MGLTVSALFSRIFGKKQMRILMVGLDAAGKTTILYKLLKLGIVTTIPTIGFNVETVEYKNICFTVWDVGG  
 QDKIRPLWRHYFQNTQGLIFVVDSDNRERVQESADELQKMLQEDELRDVLLVFANKQDMPNAMPVSELT  
 DKLLGLQHLRSRTWYVQATCATQGTGLYDGLDWLSHEL SKR

**TRTRPLE** - GFP Tag - V

Restriction Sites: SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001662

**ORF Size:** 540 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\\_001662.4](#)

**RefSeq Size:** 978 bp

**RefSeq ORF:** 543 bp

**Locus ID:** 381

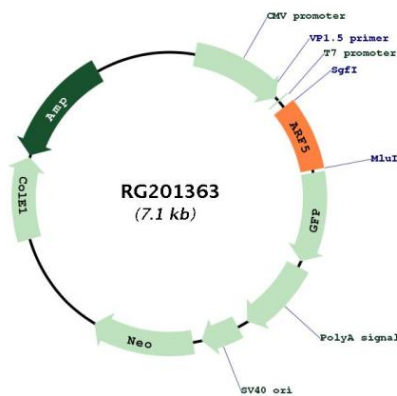
UniProt ID: [P84085](#)

Cytogenetics: 7q32.1

Domains: RAB, SAR, ARF, arf

**Gene Summary:** This gene is a member of the human ADP-ribosylation factor (ARF) gene family. These 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 gene products include 6 ARF proteins and 11 ARF-like proteins and constitute 1 family of the RAS superfamily. The ARF proteins are categorized as class I (ARF1, ARF2, and ARF3), class II (ARF4 and ARF5) and class III (ARF6). The members of each class share a common gene organization. [provided by RefSeq, Dec 2010]

**Product images:**



Circular map for RG201363