

Product datasheet for **RC201363**

ARF5 (NM_001662) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: Myc-DDK

Symbol: ARF5

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC201363 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCCTCACCGTGTCCGCGCTCTTTTCGCGGATCTTCGGAAGAAGCAGATGCGGATTCTCATGGTTG
GCTTGGATGCGGCTGGCAAGACCACAATCCTGTACAACTGAAGTTGGGGAGATTGTCACCACCATCCC
AACCATAGGCTTCAATGTAGAAACAGTGAATATAAGAATCTGTTTCACAGTCTGGGACGTGGGAGGC
CAGGACAAGATTCGGCCTCTGTGGCGGCACTACTCCAGAACACTCAGGGCCTCATCTTTGTGGTGGACA
GTAATGACCGGGAGCGGGTCCAAGAATCTGCTGATGAATCCAGAAGATGCTGCAGGAGGACGAGCTGCG
GGATGCAGTGCTGCTGGTATTTGCCAACAAGCAGGACATGCCCAACGCCATGCCCGTGAGCGAGCTGACT
GACAAGCTGGGGCTACAGCACTTACGCAGCCGCACGTGGTATGTCCAGGCCACCTGTGCCACCCAAGGCA
CAGGTCTGTACGATGGTCTGGACTGGCTGTCCACGAGCTGTCAAAGCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201363 protein sequence
Red=Cloning site Green=Tags(s)

MGLTVSALFSRIFGKKQMRILMVGLDAAGKTTILYKLKLGEIVTTIPTIGFNVETVEYKNICFTVWDVGG
QDKIRPLWRHYFQNTQGLIFVVDSDNDRERVQESADELQKMLQEDEL RDAVLLVFANKQDMPNAMPVSELT
DKLGLQHLSRTWYVQATCATQGTGLYDGLDWLSHEL SKR

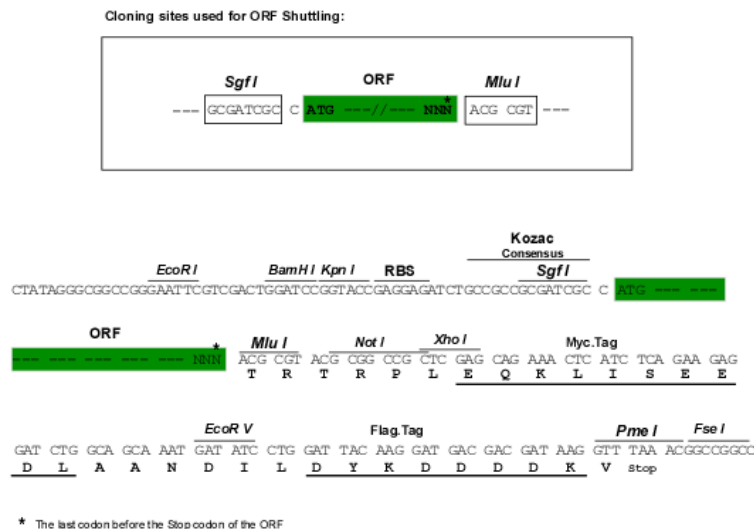
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6083_c12.zip

Restriction Sites: SgfI-MluI



[View online »](#)

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001662.4](#)

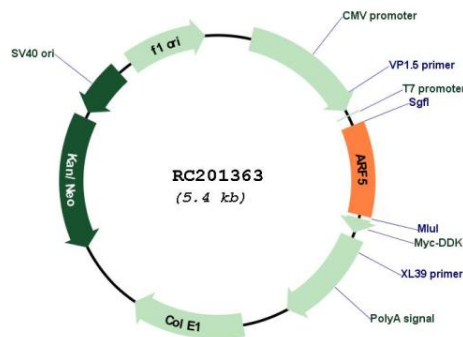
RefSeq Size: 1096 bp

RefSeq ORF: 543 bp

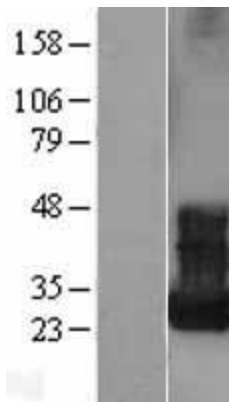
Locus ID: 381
UniProt ID: [P84085](#)
Cytogenetics: 7q32.1
Domains: RAB, SAR, ARF, arf
MW: 20.5 kDa

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]

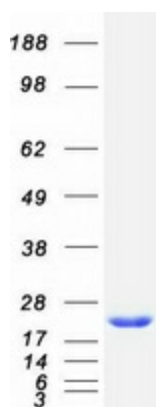
Product images:



Circular map for RC201363



Western blot validation of overexpression lysate (Cat# [LY400628]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201363 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ARF5 protein (Cat# [TP301363]). The protein was produced from HEK293T cells transfected with ARF5 cDNA clone (Cat# RC201363) using MegaTran 2.0 (Cat# [TT210002]).