

Product datasheet for **RC204984**

ARF4 (NM_001660) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ARF4 (NM_001660) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ARF4
Synonyms: ARF2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204984 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCCTCACTATCTCCTCCCTCTTCTCCGACTATTTGGCAAGAAGCAGATGCGCATTTTGTGGTTG
 GATTGGATGCTGCTGGCAAGACAACCATTCTGTATAAACTGAAGTTAGGGGAGATAGTCACCACCATTCC
 TACCATTGGTTTTAATGTGGAACAGTAGAATAAAGAACATTTGTTTCACAGTATGGGATGTTGGTGGT
 CAAGATAGAATTAGGCCTCTCTGGAAGCATTACTCCAGAATACCCAGGGTCTTATTTTTGTGGTAGATA
 GCAACGATCGTGAAGAATTCAGGAAGTAGCAGATGAGCTGCAGAAAATGCTTCTGGTAGATGAATTGAG
 AGATGCAGTGCTGCTACTTTTTGCAAACAAACAGGATTTGCCAAATGCTATGGCCATCAGTGAAATGACA
 GATAAACTAGGGCTTCAGTCTCTTCGTAACAGAACATGGTATGTTCAAGCCACTGTGCAACACAAGGAA
 CTGGTCTGTATGAAGGACTTGACTGGCTGTCAAATGAGCTTTCAAACGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204984 protein sequence
 Red=Cloning site Green=Tags(s)

MGLTISSLFSRLFQKQMRILMVGLDAAGKTTILYKLLKGEIVTTIPTIGFNVETVEYKNICFTVWDVGG
 QDRIRPLWKHYFQNTQGLIFVVDSDNRERIQEVADELQKMLLVDELRDVLLLFANKQDLPNAMAISEMT
 DKLGLQSLRNRTWYVQATCATQGTGLYEGLDWSNELSKR

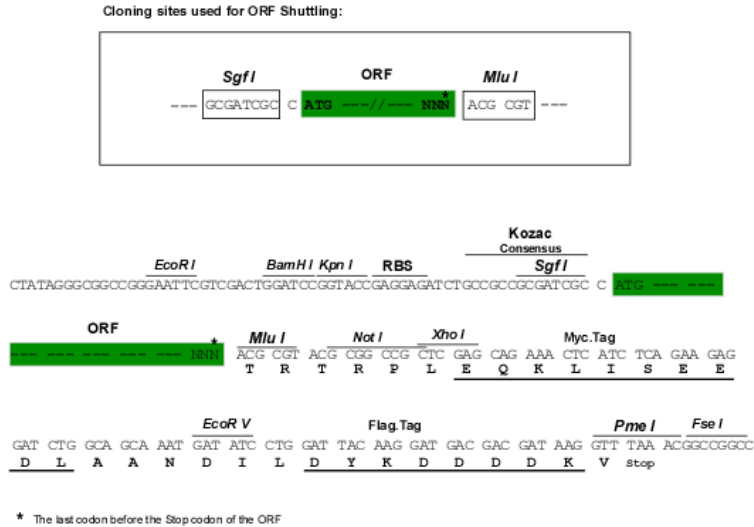
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6061_h04.zip



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001660

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_001660.4](#)

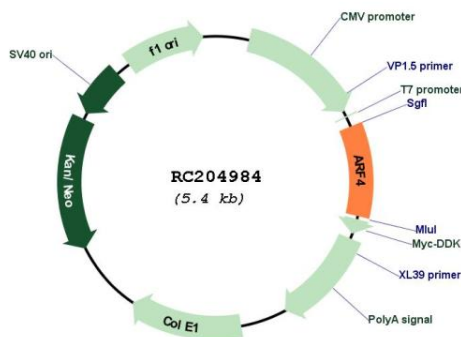
RefSeq Size: 1758 bp

RefSeq ORF: 543 bp

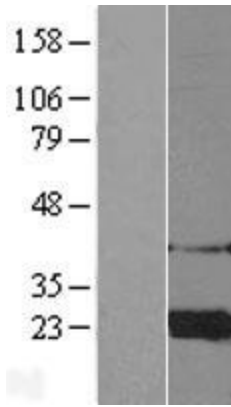
Locus ID: 378
UniProt ID: [P18085](#)
Cytogenetics: 3p14.3
Domains: RAB, SAR, ARF, arf
MW: 20.5 kDa

Gene Summary: This gene is a member of the human ARF gene family whose members 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 5 ARF proteins and 11 ARF-like proteins and constitute one family of the RAS superfamily. The ARF proteins are categorized as class I, class II and class III; this gene is a class II member. The members of each class share a common gene organization. The ARF4 gene spans approximately 12kb and contains six exons and five introns. This gene is the most divergent member of the human ARFs. Conflicting map positions at 3p14 or 3p21 have been reported for this gene. [provided by RefSeq, Jul 2008]

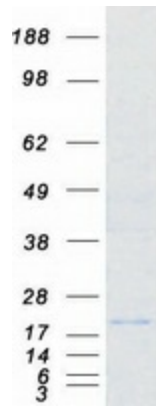
Product images:



Circular map for RC204984



Western blot validation of overexpression lysate (Cat# [LY400627]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204984 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ARF4 protein (Cat# [TP304984]). The protein was produced from HEK293T cells transfected with ARF4 cDNA clone (Cat# RC204984) using MegaTran 2.0 (Cat# [TT210002]).