

Product datasheet for **RC202698**

ARL 1 (ARL1) (NM_001177) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ARL 1 (ARL1) (NM_001177) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ARL 1
Synonyms: ARFL1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC202698 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGTGGCTTTTTCTCAAGTATATTTCCAGTCTGTTTGGAACTCGGAAATGAGAATTTAATTTGG
GATTAGATGGAGCAGGAAAAACCACAATTTGTACAGATTACAAGTGGGAGAAGTTGTTACTACTATACC
TACCATTGGATTAATGTAGAGACGGTGACGTACAAAAACCTTAAATCCAAGTCTGGGATTTAGGAGGA
CAGACAAGTATCAGGCCATACTGGAGATGTTACTATTCAAACACAGATGCAGTCATTTATGTAGTAGACA
GTTGTGACCGAGACCGAATTGGCATTTCAAATCAGAGTTAGTTGCCATGTTGGAGGAAGAAGAGCTGAG
AAAAGCCATTTTAGTGGTGTTCGAAATAAACAGGACATGGAACAGGCCATGACTTCCTCAGAGATGGCA
AATTCACTTGGGTTACCTGCCTTGAAGGACCGAAAATGGCAGATATTCAAACGTCAGCAACCAAAGGCA
CCGGCCTTGATGAGGCAATGGAATGTTAGTTGAAACATTA AAAAGCAGACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202698 protein sequence
Red=Cloning site Green=Tags(s)
MGGFFSSIFSSLFGTREMRLILGLDGAGKTTILYRLQVGEVVTIPIGPNVETVYKNLKFQVWDLGG
QTSIRPYWRCYYSNTDAVIYVVDSCDRDRIGISKSELVAMLEEEELRKAILLVVFANKQDMEQAMTSSEMA
NSLGLPALKDRKWQIFKTSATKGTGLDEAMEWL VETLKSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

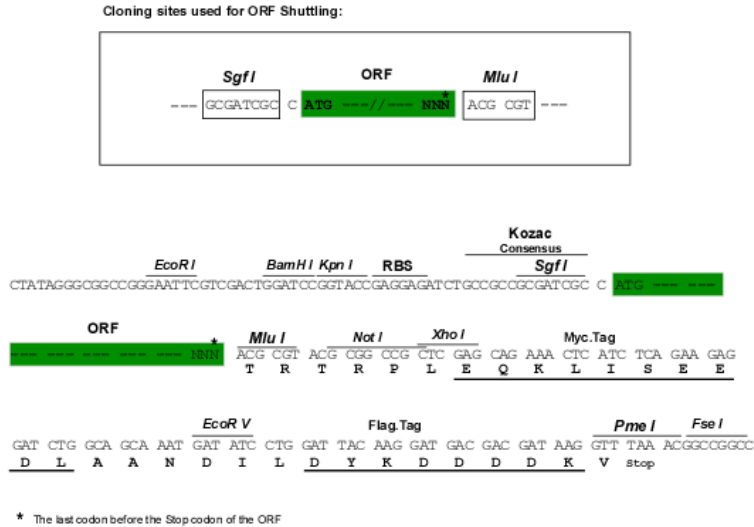
Chromatograms: https://cdn.origene.com/chromatograms/mk6416_f06.zip



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001177

ORF Size: 543 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_001177.6](#)

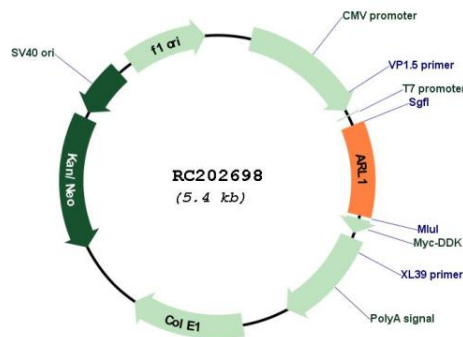
RefSeq Size: 3253 bp

RefSeq ORF: 546 bp

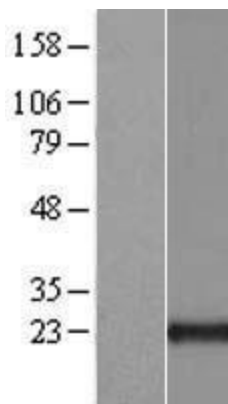
Locus ID: 400
UniProt ID: [P40616](#)
Cytogenetics: 12q23.2
Domains: RAB, SAR, ARF, arf
MW: 20.4 kDa

Gene Summary: The protein encoded by this gene belongs to the ARL (ADP-ribosylation factor-like) family of proteins, which are structurally related to ADP-ribosylation factors (ARFs). ARFs, described as activators of cholera toxin (CT) ADP-ribosyltransferase activity, regulate intracellular vesicular membrane trafficking, and stimulate a phospholipase D (PLD) isoform. Although, ARL proteins were initially thought not to activate CT or PLD, later work showed that they are weak stimulators of PLD and CT in a phospholipid dependent manner. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2014]

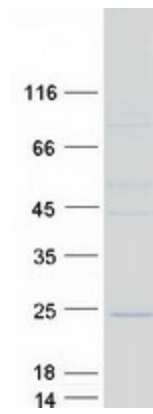
Product images:



Circular map for RC202698



Western blot validation of overexpression lysate (Cat# [LY420086]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202698 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ARL1 protein (Cat# [TP302698]). The protein was produced from HEK293T cells transfected with ARL1 cDNA clone (Cat# RC202698) using MegaTran 2.0 (Cat# [TT210002]).