

Product datasheet for **RC214593**

ARL10 (NM_173664) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ARL10 (NM_173664) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ARL10
Synonyms: ARL10A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC214593 representing NM_173664
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCCGCGGCCGCTGGGCCCTTGGTGTGGCGCTGGGCGGCCGCGGGCGGTGCTGGGCTCGGTGC
 TCTTCATCCTCTGGAAGACCTACTTCGGCCGCGGCCGAGAGCGGCGCTGGGACCGGGGAGAGGCCTGGTG
 GGGCGCGGAGGCTGCCCGCTCCCGAGTGGGACGAGTGGGACCCGAGGACGAGGAGGACGAGGAGCCG
 GCGCTGGAGGAGCTGGAACAGCGCGAGGTGCTGGTGTGGGCTGGATGGCGCAGCAAGAGCACGTTCC
 TGCGCGTGTGTGGGGAAGCCACCGCTGGAAGGCCACATCCCCACCTGGGGCTTCAACTCCGTGCGTCT
 GCCACCAAGGACTTTGAGGTGGACCTGCTAGAAATTGGGGCAGCCAGAACCTGCGCTTCTACTGGAAG
 GAGTTTGTGAGCGAGGTGGATGTGCTGGTGTGGTGGACTCGGCTGACCGACTGCGGCTGCCCTGGG
 CCCGACAGGAGCTGCACAAGCTGCTGGACAAGGACCCTGACCTGCCTGTCGTCGTTGGTGGCCAACAAGCA
 GGACCTGAGCGAGGCCATGAGTATGGGGGAGCTGCAGCGGAGCTGGGTCTACAGGCTATCGATAACCG
 CGGGAGTTTTCTCTTGGCAGCCAGCATTGCCCTGCAGGACCCACCTTTGAAGAGCCTGGCACCCTGC
 ACATCTGGAACCTGCTCTGGAGCTCCTCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC214593 representing NM_173664
Red=Cloning site Green=Tags(s)

MAPRPLGPLVLALGGAAVLGSVLFILWKTYFGRGRERRWRDGEAWWGAEARLPEWDEWDPEDDEEED
 ALEELEQREVLVLGLDGAGKSTFLRVLGKPPLEGIPTWGFNSVRLPTKDFEVDLLEIGGSQNLRFYWK
 EFVSEVDLVLVVDVSDADRLRLPWARQELHKLKLDKDPDLPVVVVANKQDLSEAMSMGELQRELGLQAIDNQ
 REVFLLAASIAPAGPTFEETVHIWKLLLELLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6497_b02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173664

ORF Size: 732 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_173664.6](#)

RefSeq Size: 2858 bp

RefSeq ORF: 735 bp

Locus ID: 285598

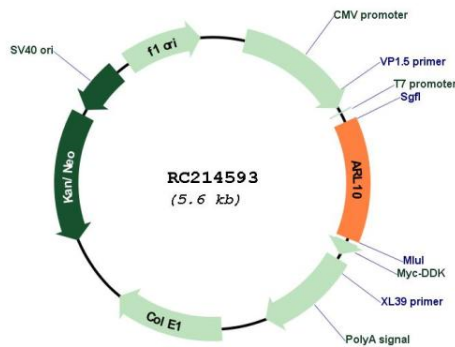
UniProt ID: [Q8N8L6](#)

Cytogenetics: 5q35.2

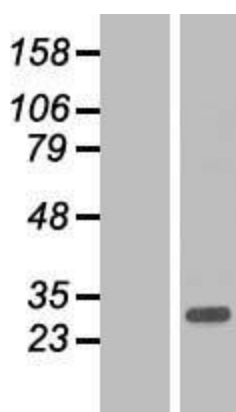
Protein Families: Transmembrane

MW: 27.3 kDa

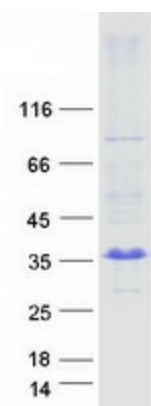
Product images:



Circular map for RC214593



Western blot validation of overexpression lysate (Cat# [LY406546]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214593 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ARL10 protein (Cat# [TP314593]). The protein was produced from HEK293T cells transfected with ARL10 cDNA clone (Cat# RC214593) using MegaTran 2.0 (Cat# [TT210002]).