

Product datasheet for RC204375

ARL14 (NM_025047) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARL14 (NM_025047) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARL14
Synonyms:	ARF7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204375 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGTTCGCTGGGTTCTAAAAATCCGCAAACCAACAAGCCCAAGTCTCTTTTGGGACTTGACTCAG
 CTGGGAAGTCTACTCTCCTTTATAAATTAAGCTTGCTAAGGATATTACCACCATCCCTACAATAGGTTT
 CAATGTGGAAATGATCGAGTTGGAAGGAATTTTCACTCACAGTCTGGGATGTTGGAGGACAGGAAAAA
 ATGAGAACTGTTGGGGCTGTTACTGTGAGAACCCGATGGGCTGGTGTATGTTGTGACAGTACAGACA
 AACAGCGACTGGAAGAGTCTCAGAGACAGTTTGAGCACATTTTGAAGAATGAACACATTAATAATGTGCC
 TGTGTTCTATTAGCCAACAACAAGACATGCCTGGAGCTCTGACTGCTGAGGACATCACCAGAATGTTC
 AAAGTGAAGAAGCTTTGCAAGTACCGGAACTGGTATGTGCAACCTGCTGTGCCCTCACAGGGGAGGGGC
 TGGCCCAGGGGTTCAAGAAATTAAGTGGATTTGTGAAGAGCCACATGAAATCAAGAGGAGACACTTTGGC
 GTTCTTCAAGCAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC204375 protein sequence Red=Cloning site Green=Tags(s)
-------------------	--

MGSLGSKNPQTKQAQVLLGLDSAGKSTLLYKLKAKDITTIPTIGFNVEMIELERNFSLTVWDVGGQEK
 MRTVWGCYCENTDGLVYVVDSTDKQRLEESQRQFEHILKNEHIKNVPVLLANKQDMPGALTAEDITRMF
 KVKKLCSDRNWYVQPCCALTGEGLAQGFRKLTGFVKSHMKSRGDTLAFKQN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV


[View online »](#)

Chromatograms: https://cdn.origene.com/chromatograms/mk6325_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025047

ORF Size: 576 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.

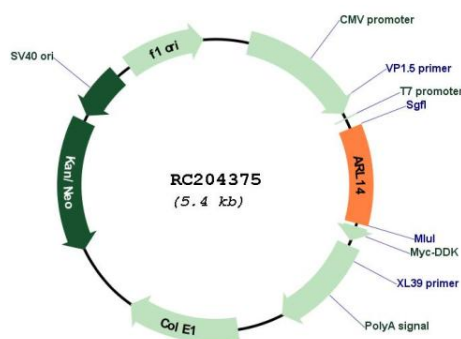
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_025047.3](#)

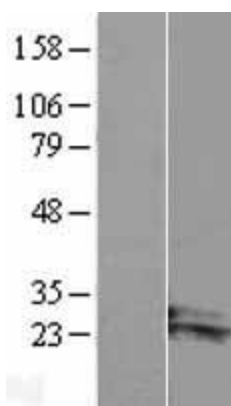
RefSeq Size: 1335 bp

RefSeq ORF:	579 bp
Locus ID:	80117
UniProt ID:	<u>Q8N4G2</u>
Cytogenetics:	3q25.33
MW:	21.6 kDa
Gene Summary:	GTPase that recruits MYO1E to MHC class II-containing vesicles via the effector protein ARL14EP and hence controls the movement of these vesicles along the actin cytoskeleton in dendritic cells.[UniProtKB/Swiss-Prot Function]

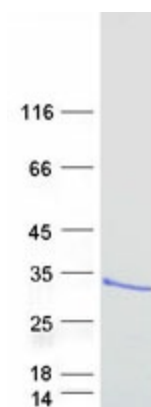
Product images:



Circular map for RC204375



Western blot validation of overexpression lysate (Cat# [LY410925]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204375 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ARL14 protein (Cat# [TP304375]). The protein was produced from HEK293T cells transfected with ARL14 cDNA clone (Cat# RC204375) using MegaTran 2.0 (Cat# [TT210002]).