

Product datasheet for **RR215043**

Arl14ep (NM_001014045) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arl14ep (NM_001014045) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Arl14ep
Synonyms: ARF7EP; RGD1311463
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215043 representing NM_001014045
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGATCCGTGCTCGGTCCGAGTCCAGCTTCGCACCACACATGACTGCCATAAAACCTTCTACACTCGGC
ACACGGGCTTCAAGACATTGAAAGAATTGTCATCAAATGACATGCTTTTACTTCAGCTTAGAACTGGAAT
GACACTTTCTGGGAATAATACGATTTGTCTCCATCATGTAAAAATTTATATTGAAAGATTTGAAGAGTTA
CAGAAATCATGTTGTGACCCATTTAACATACACAAAAAGCTAGCCAAAAAGAATCTACATGTAATTGACT
TAGATGATGCCACTTTTCTGAGTGCAAAGTTTGAAGGCAGCTCGTACCTGGTTGGAAGCTTTGCCAAA
ATGTACCCAGATCATCAATGGAAGCGTGGATGTTGATTCAGATGACCGCCAGAGACGAAACCCGAGTCA
GATGGAAGGACTGCTAAAGCTCTGAGGTCACTACAGTTTACAAACCCAGGAAAGCAAACCTGAATTTGCTC
CAGAAAGTGGTAAAAGGGAGAAAAGGAAGCTCACAAAAATGCAAGCGCTAGTTCTGACAGACAAATTA
TCCAGCAAAGAGTAAGGTGTATGACAGCCAGGGCCTGCTGATATTCAGCGGCATGGACCTCTGCGACTGC
CTGGACGAGGACTGCTTGGGATGCTTCTACGCTGCCCCACCTGTGGCTCCACCAATGTGGGGCGGAGT
GCCGCTGCGACCGCAAGTGGCTGTATGAGCAGATAGAGATTGAAGGAGGCGAGATAATCCATAATAACA
CGCTGGCAAAGCATATGGTCTGTTATCTCCCTGTCACCCATATGATATTTACAAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR215043 representing NM_001014045
Red=Cloning site Green=Tags(s)

MDPCSVGVQLRTHDCHKTFYTRHTGFKTLKELSSNDMLLLQLRTGMTLSGNTICLHHVKIYIERFEEL
 QKSCCDPFNIHKKLAKKNLHVIDLDDATFLSAKFGRQLVPGWKLCPKCTQIINGSVDVSDDRQRRKPES
 DGRTAKALRSLQFTNPGKQTEFAPESGKREKRKLTKNASASSDRQIIPAKSKVYDSQGLLIFSGMDLDCD
 LDEDCLGCFYACPTCGSTKCGAECRCRDKWLYEQIEIEGGEIHNKHAGKAYGLLSPCHPYDILQK

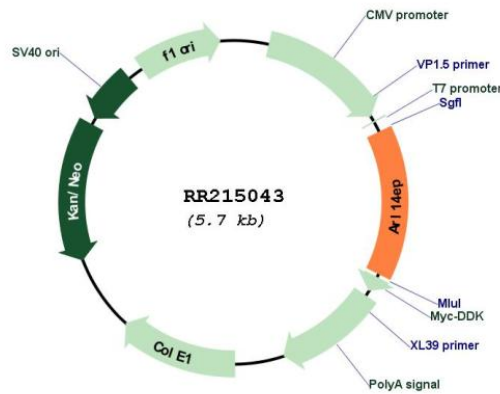
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001014045

ORF Size: 828 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:	<ol style="list-style-type: none">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_001014045.1 , NP_001014067.1
RefSeq Size:	1347 bp
RefSeq ORF:	831 bp
Locus ID:	311279
UniProt ID:	Q5FVK8
Cytogenetics:	3q33
MW:	31.1 kDa
Gene Summary:	Through its interaction with ARL14 and MYO1E, may connect MHC class II-containing cytoplasmic vesicles to the actin network and hence controls the movement of these vesicles along the actin cytoskeleton in dendritic cells.[UniProtKB/Swiss-Prot Function]