

Product datasheet for MR228941

Arl14ep (NM_173750) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arl14ep (NM_173750) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Arl14ep
Synonyms: 2700007P21Rik; 4930448O08Rik; ARF7EP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR228941 representing NM_173750
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATCCGTGTTTCAGTTGGAGTCCAGCTTCGTACCACACGACTGCCATAAAACCTTCTATACTCGGC
 ACACAGGTTTCAAGACATTGAAAGAATTGTCATCAAATGACATGCTTTTACTTCAGCTTAGAACTGGAAT
 GACTTTTCTGGGAATAATAACAATTTGTCTCCATCACGTAATAATTTATATTGACAGATTTGAAGATTTG
 CGGAAGTCGTGTTGTGACCCATTAACATACACAAGAAGCTAGCCAAAAAGAACCTGCACGTCATTGACT
 TAGATGATGCCACTTTTCTGAGCGCCAAGTTTGAAGACAGCTTGTACCTGGTTGAAGCTTTGCCCCAA
 ATGTACCCAGATCATCAATGGAAGTGTGGACGTTGATTACAGATACCGCCAGAGACGGAAACCCGACTCA
 GATGGAAGGACTGCTAAAGCTCTGAGGTCACTACAGTTTACAAACCCAGGGAAGCAAACCTGAATTTGCTC
 CAGAAGGCGGTAAGAGGGAGAAAAGAAAGCTCACCAAAGCCACAAGCGCTGCTTCTGACAGACAAATAT
 TCCAGCAAAGAGTAAGGTGTATGACAGCCAGGGCCTGCTGATTTTCAGTGGCATGGACCTCTGCGACTGC
 CTGGACGAGGACTGCTTGGGATGCTTCTACGCTTGCCCACTTGTGGCTCTACCAAATGTGGGCTGAGT
 GCCGCTGCGACCGAAAGTGGCTGTATGAGCAGATAGAGATTGAAGGAGGAGAGATAATCCATAATAAACA
 TGCTGAAAAGCATATGGTCTGTTATCTCCCTGTCACCCATATGATATTTTACAAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR228941 representing NM_173750
Red=Cloning site Green=Tags(s)

MDPCSVGVQLRTHDCHKTFYTRHTGFKTLKELSSNDMLLLQLRTGMTLSGNTICLHHVKIYIDRFEDL
 RKSCCDPFNIHKKLAKKNLHVIDLDDATFLSAKFGRQLVPGWKLCPKCTQIINGSVDVSDDRQRRKPD
 DGRTAKALRSLQFTNPGKQTEFAPEGGKREKRKLTKATSAASDRQIIPAKSKVYDSQGLLIFSGMDLDCD
 LDEDCLGCFYACPTCGSTKCGAECRCRDKWLYEQIEIEGGEIIHNKHAGKAYGLLSPCHPYDILQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_173750

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:

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_173750.1](#), [NM_173750.2](#), [NP_776111.1](#)

RefSeq Size: 3263 bp

RefSeq ORF: 831 bp

Locus ID: 212772

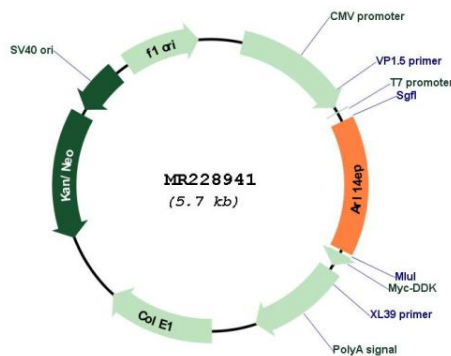
UniProt ID: [Q8BIX3](#)

Cytogenetics: 2 E3

MW: 31 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]

Product images:



Circular map for MR228941