

## Product datasheet for MR202038

### Arl4a (NM\_001039515) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Arl4a (NM\_001039515) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Arl4a  
**Synonyms:** A1467555; Arl4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR202038 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGAATGGACTGTCAGACCAGACTTCCATCCTGTCCAGCCTGCCGTCTTTCAGTCCTTTCACATTG  
 TTATTCTGGGTTTGGACTGTGCTGGAAAGACAACAGTTTTTATACAGGCTGCAGTTCAACGAATTTGTAAA  
 TACCGTACCTACCAAAGGATTTAACTGAGAAAATTAAGGTAACTTGGCAATTCAAAACAGTCACT  
 TTTCATTCTGGGATGTAGGTGGTCAAGAGAAGTTAAGACCCTGTGGAAGTCATACACCGATGCACAG  
 ATGGTATTGTGTTTGTGGTGGACTCTGTCGATGTTGAGAGAATGGAAGAAGCCAAAACACTGAATTCATAA  
 AATAACTAGGATATCCGAAAATCAGGGAGTCCCTGTGCTTATAGTTGCTAATAACAAGACCTGAGGAAC  
 TCGCTCTCTCTCAGAGATTGAGAAGTTGTTAGCAATGGGGAACTGAGCTCATCGACTCCTTGGCATT  
 TGCAGCCACCTGTGCAATCATAGGAGATGGGCTAAAGGAAGGACTCGAGAACTACATGATATGATAAT  
 TAAAAGGAGAAAAATGTTGCGGCAACAGAAAAAGAGAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR202038 protein sequence  
 Red=Cloning site Green=Tags(s)

MGNGLSDQTSILSSLPSFQSFHIVILGLDCAGKTTVLRYLQFNEFVNTVPTKGFNTEKIKVTLGNSKTVT  
 FHFWDVGGQEKLRPLWKS YTRCTDGI VVDSVDVERMEEAKTELHKITRI SENQGVPLIVANKQDLRN  
 SLSLSEIEKLLAMGELSSSTPWHLQPTCAIIGDGLKEGLEKLHDMIKRRKMLRQQKKR

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_001039515

**ORF Size:** 600 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\\_001039515.1](#), [NP\\_001034604.1](#)

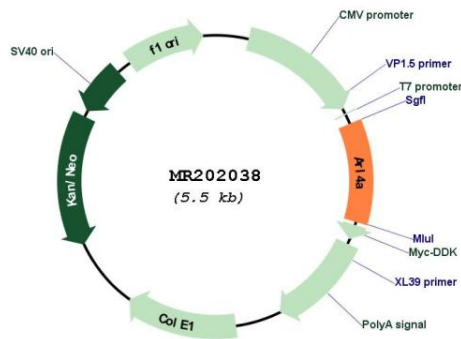
**RefSeq Size:** 3693 bp

**RefSeq ORF:** 603 bp

**Locus ID:** 11861  
**UniProt ID:** [P61213](#)  
**Cytogenetics:** 12 18.06 cM  
**MW:** 22.6 kDa  
**Gene Summary:**

Small GTP-binding protein which cycles between an inactive GDP-bound and an active GTP-bound form, and the rate of cycling is regulated by guanine nucleotide exchange factors (GEF) and GTPase-activating proteins (GAP). GTP-binding protein that does not act as an allosteric activator of the cholera toxin catalytic subunit. Recruits CYTH1, CYTH2, CYTH3 and CYTH4 to the plasma membrane in GDP-bound form (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR202038