

Product datasheet for **MG202038**

Arl4a (NM_001039515) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arl4a (NM_001039515) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Arl4a
Synonyms: AI467555; Arl4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202038 representing NM_001039515
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGAATGGACTGTCAGACCAGACTTCCATCCTGTCCAGCCTGCCGTCTTTTCAGTCCTTTACATTG
 TTATTCTGGGTTTGGACTGTGCTGGAAAGACAACAGTTTTATACAGGCTGCAGTTCAACGAATTTGTAAA
 TACCGTACCTACCAAAGGATTTAACTGAGAAAATTAAGGTAACTTGGCAATTTCAAAAACGTCCT
 TTTCACTTCTGGGATGTAGGTGGTCAAGAGAAGTTAAGACCCTGTGGAAGTCATACACCCGATGCACAG
 ATGGTATTGTGTTGTGGTGGACTCTGTCGATGTTGAGAGAATGGAAGAAGCCAAAACCTGAATTCATAA
 AATAACTAGGATATCCGAAAATCAGGGAGTCCCTGTGCTTATAGTTGCTAATAACAAGACCTGAGGAAC
 TCGCTCTCTCTCAGAGATTGAGAAGTTGTTAGCAATGGGGAACTGAGCTCATCGACTCCTTGGCATT
 TGCAGCCACCTGTGCAATCATAGGAGATGGGCTAAAGGAAGGACTCGAGAACTACATGATATGATAAT
 TAAAAGGAGAAAAATGTTGCGGCAACAGAAAAAGAGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202038 representing NM_001039515
 Red=Cloning site Green=Tags(s)

MGNGLSDQTSILSSLPFQSFHIVILGLDCAGKTTVLRYLQFNEFVNTVPTKGFNTEKIKVTLGNSKTVT
 FHFWDVGGQEKLRPLWKS YTRCTDGI VVDSVDVERMEEAKTELHKITRISENQGVPLIVANKQDLRN
 SLSLSEIEKLLAMGELSSSTPWHLQPTCAIIGDGLKEGLEKLDHMIKRRKMLRQQKKR

TRTRPLE - GFP Tag - V

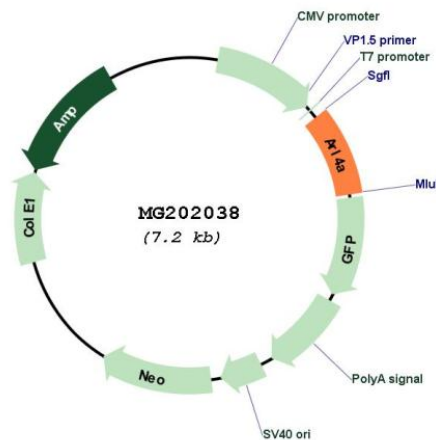
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



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.

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

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]