

Product datasheet for **MG201837**

Arl4c (NM_177305) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: Arl4c
Synonyms: A630084M22Rik; Arl7; LAK
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG201837 representing NM_177305
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGCAACATCTCCTCCAACATCTCGGCCTTCCAGTCTCTGCACATCGTTATGCTGGGCTTGGACTCGG
CCGGCAAGACTACGGTGTCTACCGGCTCAAGTTCAACGAATTCGTGAACACTGTGCCCACTATCGGCTT
CAACACCGAGAAGATCAAAGTACGCAACGGCACTGCCAAGGGCATCAGCTGCCACTTCTGGGACGTGGGC
GGCCAGGAGAAGCTACGGCCGCTGTGGAAGTCTACAGCCGCTGCACGGACGGCATCATCTACGTGGTGG
ATTCGGTGGACGTGGACCGGCTGGAGGAGCCAAAGACGGAGCTGCACAAGGTGACCAAGTTTGGCGAGAA
CCAGGGCACACCGCTCCTGTTATCGCCAACAAGCAGGATCTGCCTAAGTCGCTGCCGGTGGCCGAGATT
GAGAAGCAACTGGCGTGCACGAGCTCATCCCGCCACCACCTACCATGTCCAGCCGGCGTGCGCCATCA
TCGGCGAGGGCCTCACCAGGGCATGGACAAGCTCTATGAGATGATCCTGAAACGCAGGAAGTCTCTCAA
GCAGAAGAAGAAGCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201837 representing NM_177305
Red=Cloning site Green=Tags(s)

MGNISSNISAFQSLHIVMLGLDSAGKTTVLYRLKFNEFVNTVPTIGFNTEKIKLSNGTAKGISCHFWDVG
GQEKLRPLWKSYSRCTDGIYVVDSDVDRLLEEAKTELHKVTKFAENQGTPLLVIANKQDLPKSLPVAEI
EKQLALHELIPATTYHVQPACAIIGEGLTEGMDKLYEMILKRRKSLKQKKR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_177305

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_177305.4](#)

RefSeq Size: 3966 bp

RefSeq ORF: 579 bp

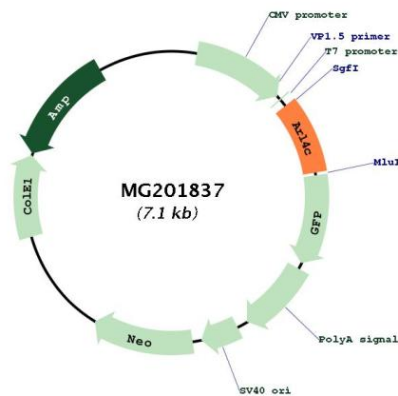
Locus ID: 320982

UniProt ID: [P61208](#)

Cytogenetics: 1 D

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. May be involved in transport between a perinuclear compartment and the plasma membrane, apparently linked to the ABCA1-mediated cholesterol secretion pathway. Recruits CYTH1, CYTH2, CYTH3 and CYTH4 to the plasma membrane in the GDP-bound form. Regulates the microtubule-dependent intracellular vesicular transport from early endosome to recycling endosome process (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG201837