

Product datasheet for **MG202064**

Arl4d (NM_025404) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: Arl4d
Synonyms: 1110036H21Rik; Arf4l; Arfl4; Arl5; ARL6; AW456149
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG202064 representing NM_025404
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGAACCACTTGACTGAAATGGCCCTACAGCCTCGTCCTTTCTGCCGCACTTCCAGGCCCTGCATG
 TCGTCGTCATTGGGTTGGATTCCGCGGGGAAGACTTCCCTTCTTTACCGTCTCAAGTTCAAGGAGTTTGT
 CCAGAGCGTCCCACCAAGGGCTTTAACTGAGAAGATCCGCGTCCCGCTGGGGGTTCCCGTGGGATC
 ACTTTCCAAGTGTGGGATGTTGGGGTCAGGAGAAGCTTCGGCCACTGTGGCGCTCTACACCCGCCGGA
 CAGATGGACTGGTGGTGGTGGACTCTGCAGAGACTGAGAGGTTAGAGGAAGCCAGAATGGAGTTACA
 CCGGATCAGCAAGGCTTCCGACAACCAGGGGTGCCAGTGTGGTCTGGCCAACAAGCAGGACCAACCG
 GGGCACTGAGTGCAGCCGAGGTGGAGAAGAGGCTGGCGGTCCGAGAGCTGGCAGCTGCCACGCTCACCC
 ATGTGCAGGCTGCAGTGTGGACGGCTGGCCCTGCAGCCAGGCTGGAACATTTGTATGAAATGAT
 CCTGAAGAGGAAGAAGGCACCTCGGTCGAGCAAGAAGAGACGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202064 representing NM_025404
 Red=Cloning site Green=Tags(s)

MGNHLEMAPTASSFLPHFQALHVVVIGLDSAGKTSLLYRLKFKFVQSVPTKGFNTEKIRVPLGSSRGI
 TFQVWDVGGQEKLRPLWRSYTRRTDGLVFVDSAETERLEEARMELEHRIKASDNQGVVPLVLANKQDQP
 GALSAAEVEKRLAVRELAATLTHVQCSAVDGLGLQPGLHLYEMILKRKKAPRSSKKRR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_025404

ORF Size: 603 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_025404.3](#), [NP_079680.1](#)

RefSeq Size: 1360 bp

RefSeq ORF: 606 bp

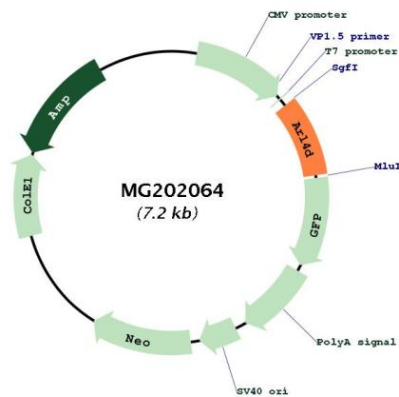
Locus ID: 80981

UniProt ID: [Q99PE9](#)

Cytogenetics: 11 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. 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 MG202064