

Product datasheet for **MG202044**

Arhgdib (NM_007486) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arhgdib (NM_007486) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Arhgdib
Synonyms: D4; Gdid; Gdid4; Ly-G; Ly-GDI
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202044 representing NM_007486
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACGGAGAAGGATGCACAGCCACAGCTGGAAGAGGGGACGACGACCTGGACAGCAAGCTCAATTATA
 AGCCACCCCTCAGAAGTCCTTGAAGGAGCTGCAGGAGATGGACAAGGATGACGAGAGTCTAACCAAGTA
 CAAGAAAACACTGCTGGGAGATGTCCCTGTGGTAGCAGACCCAACAGTCCCAATGTGACTGTTACCCGG
 CTTAGCCTTGTATGTGACAGTGCACCAGGACCCATCACCATGGACCTTACTGGGGATCTCGAGGCCCTCA
 AAAAGGATACATTTGTGCTAAAGGAAGGCATTGAATACAGGGTAAAATTAACCTCAAAGTGAATAAGGA
 TATTGTGTCTGGCCTGAAGTATGTTCAACACACATACCGACTGGCATGAGAGTGGATAAAGCCACATTC
 ATGGTTGGCAGCTATGGGCCCGACCAGAGGAGTACGAATTCCTCACTCCAGTAGAGGAAGCTCCCAAGG
 GCATGCTGGCCCGAGGCATTACCACAACAAGTCTTCTCACGGATGACGACAAACAGGACCACCTCAC
 CTGGGAATGGAACCTGGCCATTAAGAAGGATTGGACAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202044 representing NM_007486
 Red=Cloning site Green=Tags(s)

MTEKDAQPQLEEADDDLDSKLNYPKPPQKSLKELQEMDKDDESLTKYKKTLLGDVPVVDPTVPNVTVTR
 LSLVCD SAPGITMDLTGDLEALKKDTFVLKEGIEYRVKINFKVNKDIVSGLKYVQHTYRTGMRVDKATF
 MVGSYGRPEEYEFLLPVEEAPKGLARGTYHNKSFFTDDDKQDHLTWEWNLAIKKDWTE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

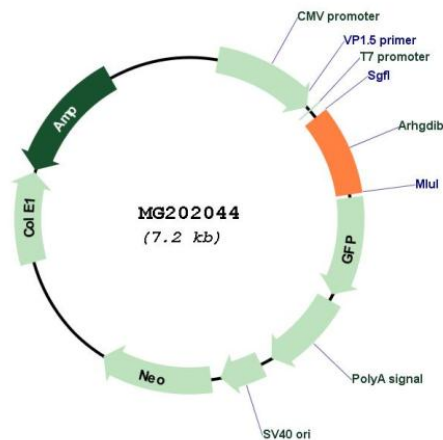


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Cloning Scheme:



Plasmid Map:



ACCN: NM_007486

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_007486.1](#), [NP_031512.1](#)

RefSeq Size: 1099 bp

RefSeq ORF: 603 bp

Locus ID: 11857

UniProt ID: [Q61599](#)

Cytogenetics: 6 G1

Gene Summary: The protein encoded by this gene is a member of the Rho guanine nucleotide dissociation inhibitor (GDI) family. This gene is expressed at high levels in hematopoietic cells. This protein is cytosolic, and dissociation of Rho from this protein is required for membrane association and activation of Rho by Guanine Nucleotide Exchange Factors (GEFs). C-terminal truncations of this gene product have been reported to promote metastasis. Multiple transcript variants and protein isoforms exist. [provided by RefSeq, Aug 2014]