

## Product datasheet for MR228468

### Arhg dib (NM\_001301303) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Arhg dib (NM\_001301303) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Arhg dib  
**Synonyms:** D4; Gdid; Gdid4; Ly-G; Ly-GDI  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR228468 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACGGAGAAGGATGCACAGCCACAGCTGGAAGAGGGGACGACGACCTGGACAGCAAGCTCAATTATA  
 AGCCACCCCTCAGAAGTCCTTGAAGGAGCTGCAGGAGATGGACAAGGATGACGAGAGTCTAACCAAGTA  
 CAAGAAAACACTGCTGGGAGATGTCCTGTGGTAGCAGACCCAACAGTCCCAACGTGACTGTTACCCGG  
 CTTAGCCTTGTATGTGACAGTGCACCAGGACCCATCACCATGGACCTTACTGGCGATCTCGAGGCCCTCA  
 AAAAGGATACATTTGTGCTAAAGGAAGGCATTGAATACAGGGTAAAATTAACCTCAAAGTGAATAAGGA  
 TATTGTGTCTGGCCTGAAGTATGTTCAACACACATACCGACTGGCATGAGAGTGGATAAAGCCACATTC  
 ATGTTGGCAGCTATGGGCCCGACCAGAGGAGTACGAATTCCTCACTCCAGTAGAGGAAGCTCCCAAGG  
 GCATGCTGGCCCGAGGCATTACCACAACAAGTCTTCTCACGGATGACGACAAACAGGACCACCTCAC  
 CTGGGAATGGAACCTGGCCATTAAGAAGGATTGGACAGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR228468 protein sequence  
 Red=Cloning site Green=Tags(s)

MTEKDAQPQLEEADDDLDSKLNYPKPPQKSLKELQEMDKDDESLTKYKKTLLGDVPVADPTVPNVTVTR  
 LSLVCDSAPGPIITMDLTGDLEALKKDTFVLKEGIEYRVKINFKVNKDIVSGLKYVQHTYRTGMRVDKATF  
 MVGSYGRPEEYEFLLTPVEEAPKGMMLARGTYHNKSFFTDDDKQDHLTWEWNLAIKKDWTE

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001301303

**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\\_001301303.1](#), [NP\\_001288232.1](#)

**RefSeq Size:** 1170 bp

**RefSeq ORF:** 603 bp

**Locus ID:** 11857

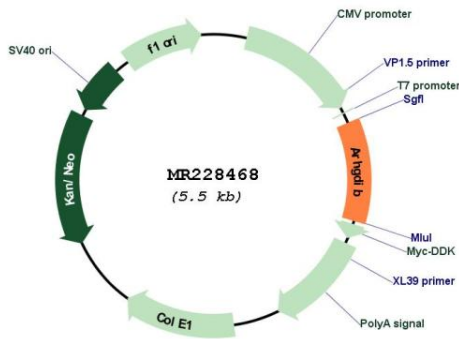
**UniProt ID:** [Q61599](#)

**Cytogenetics:** 6 G1

**MW:** 22.9 kDa

**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]

**Product images:**



Circular map for MR228468