

## Product datasheet for MC225719

### Arhgdib (NM\_001301308) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Arhgdib (NM\_001301308) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Arhgdib  
**Synonyms:** D4; Gdid; Gdid4; Ly-G; Ly-GDI  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225719 representing NM\_001301308  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGACCTTACTGGCGATCTCGAGGCCCTCAAAAAGGATACATTTGTGCTAAAGGAAGGCATTGAATACA  
GGGTGAAAATTAACCTCAAAGTGAATAAGGATATTGTGCTGGCCTGAAGTATGTTCAACACACATACCG  
GACTGGCATGAGAGTGGATAAAGCCACATTCATGGTTGGCAGCTATGGGCCCGACCAGAGGAGTACGAA  
TTCTCACTCCAGTAGAGGAAGCTCCCAAGGGCATGCTGGCCCGAGGCATTACCACAACAAGTCTTCT  
TCACGGATGACGACAAACAGGACCACCTCACCTGGGAATGGAACCTGGCCATTAAGAAGGATTGGACAGA  
ATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001301308  
**Insert Size:** 354 bp  
**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  
**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001301308.1, NP_001288237.1</u>
<b>RefSeq Size:</b>	1012 bp
<b>RefSeq ORF:</b>	354 bp
<b>Locus ID:</b>	11857
<b>UniProt ID:</b>	<u>Q61599</u>
<b>Cytogenetics:</b>	6 G1
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (5) lacks an in-frame exon in the coding region and uses a downstream start codon compared to variant 1. Variants 5 and 6 encode isoform 2 which has a shorter N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>