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Product datasheet for MR227931

Arhgdib (NM_001301309) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgdib (NM_001301309) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arhgdib
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:

```
>MR227931 representing NM_001301309
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACCTTACTGGCGATCTCGAGGCCCTCAAAAAGGATACATTTGTGCTAAAGGAAGGCATTGAATACA
GGGTGAAAATTAACTTCAAAGTGAATAAGGATATTGTGTCTGGCCTGAAGTATGTTCAACACACATACCG
GACTGGCATGAGAGTGGATAAAGCCACATTCATGGTTGGCAGCTATGGGCCCCGACCAGAGGAGTACGAA
TTCCTCACTCCAGTAGAGGAAGCTCCCAAGGGCATGCTGGCCCGAGGCACTTACCACAACAAGTCCTTCT
TCACGGATGACGACAAACAGGACCACCTCACCTGGGAATGGAACCTGGCCATTAAGAAGGATTGGACAGA
A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

Protein Sequence:

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>MR227931 representing NM_001301309
Red=Cloning site Green=Tags(s)

MDLTGDLEALKKDTFVLKEGIEYRVKINFKVNKDIVSGLKYVQHTYRTGMRVDKATFMVGSYGPRPEEYE
FLTPVEEAPKGMLARGTYHNKSFFTDDDKQDHLTWEWNLAIKKDWTE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

Restriction Sites: SgfI-MluI

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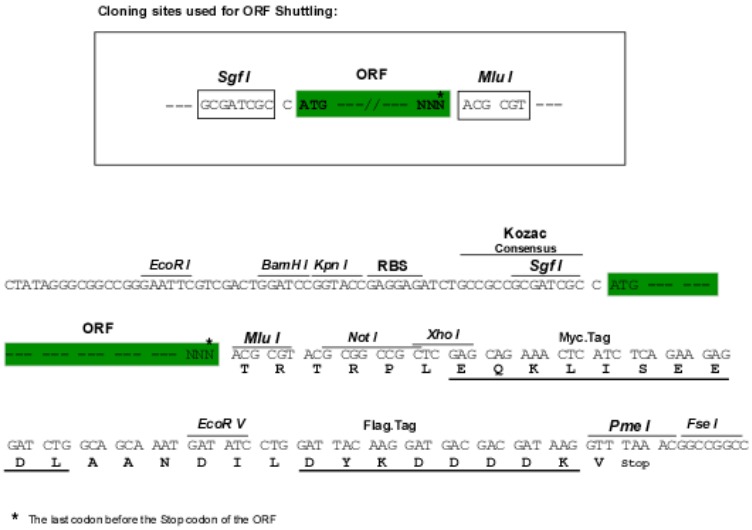
Cloning Scheme:



ACCN:	NM_001301309
ORF Size:	351 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_001301309.1, NP_001288238.1
RefSeq Size:	993 bp
RefSeq ORF:	354 bp
Locus ID:	11857

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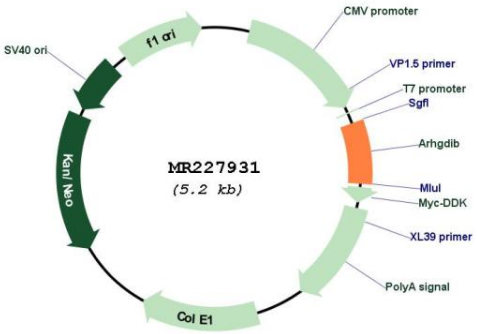
UniProt ID:	Q61599
Cytogenetics:	6 G1
MW:	14.2 kDa
Gene Summary:	The protein encoded by this gene is a member of the Rho guanine nucleotide dissociation inhibitor (GDI) family. This gene is expressed at high levels in hematopoietic cells. This protein is cytosolic, and dissociation of Rho from this protein 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 MR227931

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