

Product datasheet for **MR222983**

Arhgap1 (NM_146124) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap1 (NM_146124) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arhgap1
Synonyms:	B230365D05Rik; C76222; Cdc42GAP; p50rhoGAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222983 representing NM_146124
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACCCTCTCTCAGAGCTGCAAGATGACCTGACCTGGATGACACCAGCCAAGCTCTGAACCAGTTGA
 AGCTGGCCTCCATTGATGAGAAGAACTGGCCTTCTGATGAAATGCCAGACTTCCCAAGTCAGATGACTC
 CAAAAGCAGCTCTCCAGAACCTGTGACACACCTGAAGTGGGATGACCCCTACTATGACATTGCCCGGCAC
 CAGATTGTGGAAGTAGCCGGTGATGATAAGTATGGGCGGAAGATCATTGTATTAGTGTGTTGCCGGATGC
 CCCCCAGCCACCAGCTGGACCACAGCAAGCTCTTGGGGTATTTGAAACACACATTGGACCAGTATGTGGA
 GAGTGACTACACACTCCTGTACCTGCACCATGGCCTGACCAGTGACAACAAGCCCTCCCTCAGCTGGCTA
 CGGGATGCCTACCGAGAGTTTGACCGCAAGTACAAGAAGAATCAAGGCTCTGTACATCGTGCACCCAA
 CCATGTTTCATCAAACTCTGCTTATCCTCTTTAAGCCTCTCATCAGTTTCAAGTTTGGACGGAAGATCTT
 CTACGTGAATTACCTGAGTGAGCTGAGCGAGCAGTGAAGCTGGAGCAGTTGGGGATCCCTCGCCAAGTG
 CTAAGTATGATGACTTCTCAAATCCACACAGAAAAGCCCTGCAACAGCTCCCAAGCCCATGCCACCAC
 GGCCCCCCTGCCAATCAGCAGTTTGGGGTCTCCTTACAGCACCTCCAGGAGAAAAGCCAGGCCAGGA
 CCCCATTCCCATTGTCCTCAGGGAGACCGTGCCTACTTGCAGGCTCACGCTCTCACCACTGAGGGCATC
 TTCCGGAGGTCTGCCAACCCAGGTTGTCCGGGAAGTGACAGCAAAATACAATATGGGGTCCCGGTGG
 ACTTTGACCAGTACAACGAGCTGCACCTGCCCCGCTGTATCCTCAAGACATTCTTCGGGAGCTTCTCTGA
 ACCCTTGTAACCTTTGACCTGTACCCCATGTTGTGGGCTTCTCAATATTGATGAAAGCCAGAGAGTG
 GAAGTGACACAGCAGGTTCTCCAACTCTGCCAGAGGAGAACTACCAGGTGCTTCATTTCTGACTGCCT
 TCCTGGTGCAGATATCTGCCACTGTGACCAGAACAAGATGACCAACACTAACTGGCTGTAGTCTTCGG
 CCCTAACCTGCTCTGGGCTAAAGATGCTGCCATCACCTCAAGGCTATCAATCCCATCAACACCTTCACT
 AAGTTCCTCCTGGATCATCAAGGGAATTGTTCCCCAGCACAGATGCCAGGGGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222983 representing NM_146124
 Red=Cloning site Green=Tags(s)

MDPLSELQDDLTDLDDTSQALNQLKLASIDEKNWPSDEMPDFPKSDDSKSSSPEPVTHLKWDDPPYYDIARH
 QIVEVAGDDKYGRKIIIVFSACRMPPSHQLDHSKLLGYLKHTLDQYVESDYTLLEYLHHGLTSDNKPSLSWL
 RDAYREFDRKYKNIKALYIVHPTMFIKTLILFKPLISFKFGRKIFYVNYLSELSEHVKLEQLGIPRQV
 LKYDDFLKSTQKSPATAPKMPMPRPPLPNQQFGVSLQHLQEKSPGQDPIPIVLRRETVAYLQAHALTTEGI
 FRRSANTQVVREVQQKYNMGLPVDFDQYNELHLPVILKTFRLRELPELLTFDLYPHVVGFLNIDESQRV
 EVTQQVLQTLPEENYQVLHFLTAFLVQISAHCDQNKMTNTNLAVVFGPNLLWAKDAAITLKAINPINTFT
 KFLLDHQGELFPSTDAQGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_146124

ORF Size: 1317 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_146124.4](#), [NP_666236.3](#)
RefSeq Size: 3113 bp

RefSeq ORF: 1320 bp

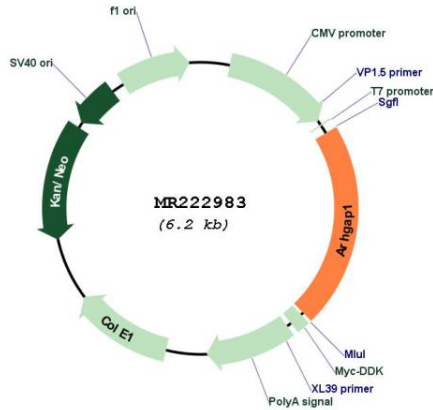
Locus ID: 228359

UniProt ID: [Q5FWK3](#)
Cytogenetics: 2 E1

MW: 50.9 kDa

Gene Summary: GTPase activator for the Rho, Rac and Cdc42 proteins, converting them to the putatively inactive GDP-bound state. Cdc42 seems to be the preferred substrate (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222983