

Product datasheet for **MR222984**

Arhgap1 (NM_001145902) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap1 (NM_001145902) 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:

>MR222984 representing NM_001145902
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAAGTGGTTGGGGAGCTGGGGGCCCCGAGGGGGCGGTTCCCATCCCATCTCGGAGCCGGATG
 TTTGCCGAGCTTTGACAGGCGTGGCAGAGGAAGCATTGCCGGAACGAGCCATGGACCCTCTCTCAGAGCT
 GCAAGATGACCTGACGCTGGATGACACCAAGCTCTGAACCAGTTGAACTGGCCTCCATTGATGAG
 AAGAACTGGCCTTCTGATGAAATGCCAGACTTCCCAAGTCAGATGACTCCAAAAGCAGCTCTCCAGAAC
 CTGTGACACACCTGAAGTGGGATGACCCTTACTATGACATTGCCCGCACCAGATTGTGGAAGTAGCCGG
 TGATGATAAGTATGGGCGGAAGATCATTGTATTCACTGCTTGCCGGATGCCCGCCAGCCACCAGCTGGAC
 CACAGCAAGCTCTTGGGTATTTGAAACACACATTGGACCAGTATGTGGAGAGTGACTACACACTCTGT
 ACCTGCACCATGGCCTGACCAGTGACAACAAGCCCTCCCTCAGCTGGCTACGGGATGCCTACCGAGAGTT
 TGACCGCAAGTACAAGAAGAATCAAGGCTCTGTACATCGTGCACCCAACCATGTTTCATCAAACTCTG
 CTATCCTCTTTAAGCCTCTCATCAGTTTCAAGTTTGGACGGAAGATCTTCTACGTGAATTACCTGAGTG
 AGCTGAGCGAGCAGCTGAAGCTGGAGCAGTTGGGGATCCCTCGCCAAGTGCTCAAGTATGATGACTTCT
 CAAATCCACACAGAAAAGCCCTGCAACAGCTCCCAAGCCCATGCCACCACGGCCCCCCTGCCAATCAG
 CAGTTTGGGGTCTCCTTACAGCAGCTCCAGGAGAAAAGCCAGGCCAGGACCCCAATCCCATTGTCTCA
 GGGAGACCGTCCGCTACTTGAGGCTCACGCTCTCACCAGTGGGATCTTCCGGAGGTCTGCCAACAC
 CCAGGTTGTCCGGAAGTGCAGCAGAAAACAATATGGGGCTGCCGGTGGACTTTGACCAGTACAACGAG
 CTGCACCTGCCCGCTGTATCCTCAAGACATTCTTCCGGAGCTTCTGAACCTTGCTAACCTTTGACC
 TGTACCCCATGTTGTGGGCTTCTCAATATTGATGAAAGCCAGAGAGTGAAGTGAACAGCAGCAGGTTCT
 CCAAACTCTGCCAGAGGAGAATACCAGGTGCTTCAATTTCTGACTGCCTTCTGGTGCAGATATCTGCC
 CACTGTGACCAGAACAGATGACCAACACTAACTTGGCTGTAGTCTTCCGCCCTAACCTGCCTGGGCTA
 AAGATGCTGCCATCACCTCAAGGCTATCAATCCCATCAACACCTTCACTAAGTCTCCTGGATCATCA
 AGGGGAATTGTTCCCGCAGCAGATGCCAGGGGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222984 representing NM_001145902
 Red=Cloning site Green=Tags(s)

MAEYVVGELGAPGAVPIPISEPDVCRALTGVAEEALPERAMDPLSELQDDLTDLDDTSQALNQLKLASIDE
 KNWPSDEMPDFPKSDDSKSSSPEPVTHLKWDDPYDYDIARHQIVEVAGDDKYGRKIIVFSACRMPPSHQLD
 HSKLLGYLKHTLDQYVESDYTLTYLHHGLTSDNKPSLSWLRDAYREFDRKYKKNIKALYIVHPTMFIKTL
 LILFKPLISFKFGRKIFYVNYLSELSEHVKLEQLGIPRQVLKYDDFLKSTQKSPATAPKMPPRPLPNQ
 QFGVSLQHLQEKSPGQDPIPIVLRVAYLQAHALTTEGIFRRSANTQVVREVQQKYNMGLPVDFDQYNE
 LHLPAVILKTFRLPEPLTFDLYPHVVGFLNIDESQRVEVTQQVLTLPENYQVLFHFLTAFLVQISA
 HCDQNKMTNTNLAVVFGPNLLWAKDAAITLKAINPINTFTKFLLDHQGELFPSTDAQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1209_c07.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001145902

ORF Size: 1437 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_001145902.1](#), [NP_001139374.1](#)

RefSeq Size: 2904 bp

RefSeq ORF: 1440 bp

Locus ID: 228359

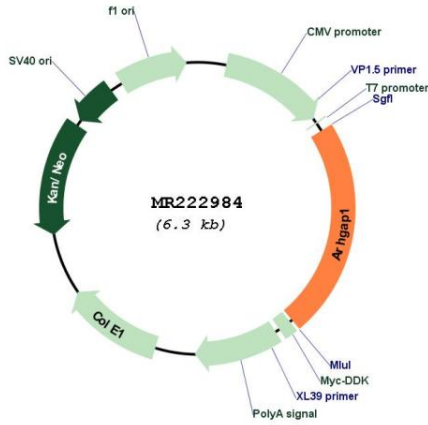
UniProt ID: [Q5FWK3](#)

Cytogenetics: 2 E1

MW: 54.9 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 MR222984