

Product datasheet for **MR217874**

Arhgap17 (NM_001122640) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap17 (NM_001122640) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arhgap17
Synonyms:	5730403H17Rik; Nadrin; Nadrin2; Rich1; Wbp15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR217874 representing NM_001122640
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGAAGCAATTCAACCCGATGAAGCAGCTGGCCAATCAGACTGTCCGAGAGCTGAGAAGACCGAAG
 TCCTCAGTGAAGATCTGCTACAGATTGAACGTCGCCTGGACACTGTGCGTTCAATGTGCCACCATTACACA
 TAAGCGTTTGATAGCCTGCTTCCAAAGTTCAGCATGGCACTGATGCCGAGAGGAGACATAAAAAGTTCTCT
 CTGACAGCTCTTGCCAGAACATGCAGGAGGCTTCAGCCCAGCTGGAAGAGTCTCTCTTGGGGAAGATGC
 TGGAGACCTGTGGGGACGCTGAGAACAGCTGGCTCTTGAACCTCACAAACATGAAGTCTTTGTGGAGAA
 GGAGATCATGGACCCTCTACGGCATAGCAGAGGTGGAGATTCCAATATCCAGAAGCAAAGGAAGCAG
 CTTGCTAGATTGGTGTGGACTGGGATTAGTCAGAGCGAGATGGAACCAAGCACACAAGTCTTCAGGAA
 CCAACTTTCAGGGGCTTCCATCCAAAATAGATACCCTAAAGGAAGAGATGGATGAAGCTGGGAATAAAGT
 TGAACAGTGAAGGATCAACTTGCAGCAGACATGTACAACCTCATGGCCAAGAAGGGGAGTATGGCAAG
 TTCTTCGTGACGTTATTAGAAGCCCAAGCAGATTACCATAGAAAAGCATTAGCAGTCTTAGAAAAGGCC
 TTCCCGAAATGCGCGCCCATCAAGATAAGTGGGCAGAGAAGCCAGCCTTCGGCACACCTCTGGAGGAACA
 CCTGAAGAGGAGTGGGCGTGAGATCGCCCTGCCTATTGAGGCCTGTGTCATGTTGTTGCTGGAGACTGGC
 ATGAAAGAGGAGGGCCTTTTTCGGATTGGAGCTGGAGCCTCCAAGTTGAAGAAGCTGAAAGCTGCTCTCG
 ACTGCTCCACATCGCATCTGGATGAATTCTATTCTGATCCCCATGCTGTCGCAGGTGCTTTAAAGTCTTA
 TCTGCGGGAGTTGCTGAGCCCTTAATGACTTTCAGTCTGTATGAAGAATGGACACAAGTTGCAAGTGTG
 CAGGATCAAGACAAAAAAGTCAATATTTATGGACAACATGTGAGAAGTTGCCGCCACAAAATTTTGTTA
 ACTTTAGGTATTTAATCAAGTTCCTTGCAAAGCTTGCCAGACCAAGTACGTTAATAAAAATGACTCCTAG
 CAACATAGCCATTGTCTGGGCCCTAACCTCCTGTGGGCCAAACAAGAAGGAACGCTGGCTGAAATAGCG
 GCTGCCACATCGTCCAGTGGTTGCAAGTATTGAGCCATCATCCAGCATGCAGATTGGTTCTTCCCTG
 GAGAGGTAGAATTCAATGTATCAGAAGCATTGTGCCACTTGCTACCCCGAATTCTAATCACTCATCCCA
 TACTGAAATGACTCTGACTCGGGGACTCTGGAGAGGAAGCGACCTGCCAGCATGGCAGTGTGGAAGGG
 GACTTGGTGAAGAAGGAGAGCTTTGGTGTGAAGCTAATGGACTTCCAGGCCACCGCGGGGTGGCACTC
 TAAATAGAAAGCACATAGCCCCGCTTTCAGCCGCCACTCCCGCCACGGATGGCAACGCCTTGGCTCC
 AGCAGGCCAGAGCCCCCTTCTCAGAGCTCTAGGGCTGACAGCAGCTCAGGGGTGGGCTGTCTTCTCT
 TCTACGGGCATATTGGAGCAGGGGCTGAGCCCAGGTGACAGCAGTCTCCAAAACCCAAAGACTCCGTGT
 CTGACAGTGTCCCTGCAGCAGGAAGGAACAGCAACCAGATGACCACGGTCCCAAACCCAGGCTCAGACAGG
 TGGCAACTCCCATCAGCTCTCAGTAAGCACACCTCACAGTGCAGCCGGTCCCAGCCCCACACTCTGCGT
 CGGGCTGTGAAGAAACCTGCCCCCGACCCCCAAACCAGGAAACCTACCTCCTGGCCACCTGGAGGAC
 AGAGCTCTCCTGGCACAGGCACATCCCCAAAGCCAAGCGCCCGAAGCCCATACCCGCTCAGCAGCAGCA
 GCAGCAGCAACAACAGCAGCAACAACAGCAGCAGCAGCAGACCCAGGCATGCGCCGCTGCTCCAGCAGC
 CTGCCTCCCATCCAGGCACCCAGCCACCCACCACAGCCCCCACACAGCCTCGTTGGGTGAACAGG
 GACCAGAGCCAGGCCCCACGCCACCTCAAACCCACACACCTAGCACCCACCCCTGGCCAAGCAGAA
 TCCATCGCAAAGTGAGACCACACAGCTGCACGGAACCTCCAAAGACCAGGCCAGTGCCAAAGCCCCCG
 AACCGGCCCTAGCGTGCCACCACCCACATCCACCTGGCACCCACAGGTGGATGGTGGCCTTACATCCT
 CAGTGCCACAGCCTCCAGAATCGTCACTGATGCCCTTCCGGTGGCCCTCACAGGTGGGGAAGTTTCCA
 GAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217874 representing NM_001122640
Red=Cloning site Green=Tags(s)

MKKQFNRMKQLANQTVGRAEKTEVLSDDLQIERRLDTVRSMCHHSKRLIACFQGQHGTAERRHKKLP
LTALAQNMQEASAQLEESLLGKMLETCGDAENQLALELSQHEVFVEKEIMDPLYGIAEVEIPNIQQRKQ
LARLVLDWDSVRARWNQAHKSSGTNFQGLPSKIDTLKEEMDEAGNKVEQCKDQLAADMYNFMAKEGEYK
FFVTLLLEAQADYHRKALAVLEKALPEMRAHQDKWAEKPAFGTPLEEHLKRSGREIALPIEACVMLLLETG
MKEEGLFRIGAGASKLKKLKAALDCSTSHLDEFYSDPHAVAGALKSYLRELPEPLMTFSLYEEWTQVASV
QDQDKKLQYLWTTCCQKLPPQNFVNFRLIKFLAKLAQTSVNMKTPSNIAIVLGPPLLWAKQEGTLAEIA
AATSVHVAVIEPIIQHADWFFPGEVEFNVSEAFVPLATPNSNHSSTGNDSDSGTLERKRPASMAVMEG
DLVKKESFGVKLMDFAQHRRGGTLNRKHIAPAFQPLPPTDGNALAPAGPEPPSSSRADSSSGGPPVFS
STGILEQGLSPGDSSPPKPKDSVSAAVPAAGRNSNQMTTVPNQAQTGGNSHQLSVSTPHSAAGPSPHTLR
RAVKKPAPAPPKGNLPPGHPGGQSSPGTGTSPKPSARSPSPQQQQQQQQQQQQQQTPGMRRCSSS
LPPIQAPSHPPPPTQPRLGEQGPEPGTPPQTPTPPSTPPLAKQNPSSQSETTLHGTLPRPRVPKPR
NRPSVPPPPPPGTHTVDGGLTSSVPTASRIVTDALPGALTGGEGFQN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

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_001122640.1](#), [NP_001116112.1](#)

RefSeq Size: 3551 bp

RefSeq ORF: 2457 bp

Locus ID: 70497

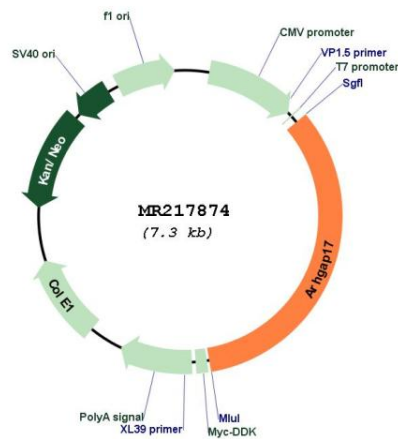
UniProt ID: [Q3UIA2](#)

Cytogenetics: 7 F3

MW: 89.4 kDa

Gene Summary: Rho GTPase-activating protein involved in the maintenance of tight junction by regulating the activity of CDC42, thereby playing a central role in apical polarity of epithelial cells. Specifically acts as a GTPase activator for the CDC42 GTPase by converting it to an inactive GDP-bound state. The complex formed with AMOT acts by regulating the uptake of polarity proteins at tight junctions, possibly by deciding whether tight junction transmembrane proteins are recycled back to the plasma membrane or sent elsewhere. Participates in the Ca(2+)-dependent regulation of exocytosis, possibly by catalyzing GTPase activity of Rho family proteins and by inducing the reorganization of the cortical actin filaments. Acts as a GTPase activator in vitro for RAC1 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217874