

## Product datasheet for **MG217874**

### Arhgap17 (NM\_001122640) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap17 (NM_001122640) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arhgap17
Synonyms:	5730403H17Rik; Nadrin; Nadrin2; Rich1; Wbp15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG217874 representing NM\_001122640  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGAAGCAATTCAACCCGATGAAGCAGCTGGCCAATCAGACTGTCCGAGAGCTGAGAAGACCGAAG  
 TCCTCAGTGAAGATCTGCTACAGATTGAACGTCGCCTGGACACTGTGCGTTCAATGTGCCACCATTCA  
 TAAGCGTTTGATAGCCTGCTTCCAAAGTCAGCATGGCACTGATGCCGAGAGGAGACATAAAAAGTTCCT  
 CTGACAGCTCTTGCCAGAACATGCAGGAGGCTTCAGCCCAGCTGGAAGAGTCTCTCTTGGGGAAGATGC  
 TGGAGACCTGTGGGGACGCTGAGAACAGCTGGCTCTTGAACCTCACAAATGAAGTCTTTGTGGAGAA  
 GGAGATCATGGACCCTCTACGGCATAGCAGAGGTGGAGATTCCAATATCCAGAAGCAAAGGAAGCAG  
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 CCAACTTTCAGGGGCTTCCATCCAAAATAGATACCCTAAAGGAAGAGATGGATGAAGCTGGGAATAAAGT  
 TGAACAGTGCAAGGATCAACTTGCAGCAGACATGTACAACCTCATGGCCAAGAAGGGGAGTATGGCAAG  
 TTCTTCGTGACGTTATTAGAAGCCCAAGCAGATTACCATAGAAAAGCATTAGCAGTCTTAGAAAAGGCC  
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 CCTGAAGAGGAGTGGGCGTGAGATCGCCCTGCCTATTGAGGCCTGTGTCATGTTGTTGCTGGAGACTGGC  
 ATGAAAGAGGAGGGCCTTTTTCGGATTGGAGCTGGAGCCTCCAAGTTGAAGAAGCTGAAAGCTGCTCTCG  
 ACTGCTCCACATCGCATCTGGATGAATTCTATTCTGATCCCCATGCTGTCGCAGGTGCTTTAAAGTCTTA  
 TCTGCGGGAGTTGCTGAGCCCTTAATGACTTTCAGTCTGTATGAAGAATGGACACAAGTTGCAAGTGTG  
 CAGGATCAAGACAAAAAATTCATATTTATGGACAACATGTCAGAAGTTGCCGCCACAAAATTTTGTTA  
 ACTTTAGGTATTTAATCAAGTTCCTTGCAAAGCTTGCCAGACCAAGTACGTTAATAAAAATGACTCCTAG  
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 TGGCAACTCCCATCAGCTCTCAGTAAGCACACCTCACAGTGACAGCCGGTCCCAGCCCCACACTCTGCGT  
 CGGGCTGTGAAGAAACCTGCCCCCGACCCCCAAACCAGGAAACCTACCTCCTGGCCACCTGGAGGAC  
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 GCAGCAGCAACAACAGCAGCAACAACAGCAGCAGCAGCAGACCCAGGCATGCGCCGCTGCTCCAGCAGC  
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 GACCAGAGCCAGGCCCCACGCCACCTCAAACCCACACACCTAGCACCCACCCCTGGCCAAGCAGAA  
 TCCATCGCAAAGTGAGACCACACAGCTGCACGGAACCTCCAAAGACCAGGCCAGTGCCCAAGCCCCCG  
 AACCGGCTAGCGTGCCACCACCCACATCCACCTGGCACCCACAGGTGGATGGTGGCCTTACATCCT  
 CAGTGCCACAGCCTCCAGAATCGTCACTGATGCCCTTCCGGTGCCCTCACAGGTGGGGAAGTTTCCA  
 GAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG217874 representing NM\_001122640  
 Red=Cloning site Green=Tags(s)

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MKKQFNRMKQLANQTVGRAEKTEVLSDDLQIERRLDTVRSMCHHSHKRLIACFQGQHGTAERRHKKLP
LTALAQNMQEASAQLEESLLGKMLETCGDAENQLALELSQHEVFVEKEIMDPLYGIAEVEIPNIQQRKQ
LARLVLDWDSVRARWNQAHKSSGTFNQGLPSKIDTLKEEMDEAGNKVEQCKDQLAADMYNFMAKEGEYK
FFVTLLLEAQADYHRKALAVLEKALPEMRAHQDKWAEKPAFGTPLEEHLKRSGREIALPIEACVMLLLETG
MKEEGLFRIGAGASKLKKLKAALDCSTSHLDEFYSDPHAVAGALKSYLRELPEPLMTFSLYEEWTQVASV
QDQDKKLQYLWTTCCQKLPPQNFVNFYRLIKFLAKLAQTSVNMKTPSNIAIVLGPPLLWAKQEGTLAEIA
AATSVHVAVIEPIIQHADWFFPGEVEFNVSEAFVPLATPNSNHSSHTGNDSDSGTLERKRPASMAVMEG
DLVKKESFGVKLMDFQAHRGGTLNRKHIAPAFQPLPPTDGNALAPAGPEPPSQSSRADSSSGGPPVFS
STGILEQGLSPGDSSPPKPKDSVSAAVPAAGRNSNQMTTVPNQQTGGNSHQLSVSTPHSAAGPSPHTLR
RAVKKPAPAPPKGNLPPGHPGGQSSPGTGTSPKPSARSPSPQQQQQQQQQQQQQQQTPGMRRCSSS
LPPIQAPSHPPPQPTQPRLGEQPEPGPTPPQTPTPPSTPPLAKQNPSSQSETTQLHGTLPRPRPVPKPR
NRPSVPPPPHPPGTHTVDGGLTSSVPTASRIVTDALPGALTGGEGFQN
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul



**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

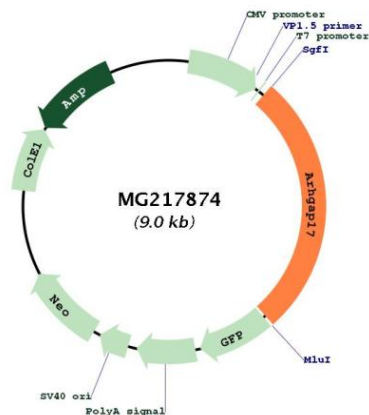
**Locus ID:** 70497

**UniProt ID:** [Q3UIA2](#)

**Cytogenetics:** 7 F3

**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 MG217874