

Product datasheet for **MR218872**

Arhgap17 (NM_001122641) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap17 (NM_001122641) 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)



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ORF Nucleotide Sequence:

>MR218872 representing NM_001122641
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGAAGCAATTCAACCCGATGAAGCAGCTGGCCAATCAGACTGTCCGAGAGCTGAGAAGACCGAAG
 TCCTCAGTGAAGATCTGCTACAGATTGAACGTCGCCTGGACACTGTGCGTTCAATGTGCCACCATTCA
 TAAGCGTTTGATAGCCTGCTTCCAAGGTCAGCATGGCACTGATGCCGAGAGGAGACATAAAAAGTTCTCT
 CTGACAGCTCTTGCCAGAACATGCAGGAGGCTTCAGCCCAGCTGGAAGAGTCTCTCTTGGGGAAGATGC
 TGGAGACCTGTGGGGACGCTGAGAACAGCTGGCTCTTGAACCTCACAAATGAAGTCTTTGTGGAGAA
 GGAGATCATGGACCCTCTACGGCATAGCAGAGGTGGAGATTCCAATATCCAGAAGCAAAGGAAGCAG
 CTTGCTAGATTGGTGTGGACTGGGATTAGTCAGAGCGAGATGGAACCAAGCACACAAGTCTTCAGGAA
 CCAACTTTCAGGGGCTTCCATCCAAAATAGATACCCTAAAGGAAGAGATGGATGAAGCTGGGAATAAAGT
 TGAACAGTGCAAGGATCAACTTGCAGCAGACATGTACAACCTCATGGCCAAGAAGGGGAGTATGGCAAG
 TTCTTCGTGACGTTATTAGAAGCCCAAGCAGATTACCATAGAAAAGCATTAGCAGTCTTAGAAAAGGCC
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 TCTGCGGGAGTTGCTGAGCCCTTAATGACTTTGACTCTGTATGAAGAATGGACACAAGTTGCAAGTGTG
 CAGGATCAAGACAAAAAATTCAATATTTATGGACAACATGTGAGAAGTTGCCGCCAAAAATTTTGTTA
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 GCTGCCACATCGGTCCAGTGGTTGCAAGTATTGAGCCATCATCCAGCATGCAGATTGGTTCTTCCTG
 GAGAGGTAGAATTCAATGTATCAGAAGCATTGTGCCACTTGCTACCCGAATTCTAATCACTCATCCCA
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 GGAACAGCAACCAGATGACCACGGTCCCAAACCCAGGCTCAGACAGGTGGCAACTCCCATCAGCTCTCAGT
 AAGCACACCTCACAGTGCAGCCGGTCCCAGCCGCACACTCTGCGTGGGCTGTGAAGAAACCTGCCCCC
 GCACCCCCAAACCAGGAAACCTACCTCCTGGCCACCCTGGAGGACAGAGCTCTCCTGGCACAGGCACAT
 CCCCAAAGCCAAAGCGCCCGAAGCCCATCACCGCCTCAGCAGCAGCAGCAGCAACAACAGCAGCAACA
 ACAGCAGCAGCAGCAGACCCAGGCATGCGCCGCTGCTCCAGCAGCCTGCCTCCCATCCAGGCACCCAGC
 CACCCACCACACAGCCCCCACACAGCCTCGGTTGGGTGAACAGGGACCAGAGCCAGGCCCCACGCCAC
 CTCAAACCCACACCACCTAGCACCCACCCCTGGCCAAAGCAGAATCCATCGAAAGTGAGACCACACA
 GCTGCACGGAACCCTCCAAGACCACGGCCAGTGCCCAAGCCCGCAACCGGCCATAGCGTGCACCCACC
 CCACATCCACCTGGCACCCACACGGTGGATGGTGGCCTTACATCCTCAGTGGCCACAGCCTCCAGAATCG
 TCACTGACACCAATTCTAGGGTTTCTGAATCACTTCGCAGCATCTTCTGAAATACATTCAGACTTGGC
 AAGCAAAGAAGTGCCTGGCCACATCTGCTGGACATAGACAATGACACAGAAAGTACTGCATTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218872 representing NM_001122641
Red=Cloning site Green=Tags(s)

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MKKQFNRMKQLANQTVGRAEKTEVLSDLLQIERRLDTVRSMCHSHKRLIACFQGQHGTAERRHKKLP
LTALAQNMQEASQLEESLLGKMLETCGDAENQLALELSQHEVFVEKEIMDPLYGIAEVEIPNIQQRKQ
LARLVLDWDSVRARWNQAHKSSGTNFQGLPSKIDTLKEEMDEAGNKVEQCKDQLAADMYNFMAKEGEYK
FFVTLLEAQADYHRKALAVLEKALPEMRAHQDKWAEKPAFGTPLEEHLKRSGREIALPIEACVMLLLETG
MKEEGLFRIGAGASKLKKLKAALDCSTSHLDEFYSDPHAVAGALKSYLRELPEPLMTFSLYEWTQVASV
QDQDKKLQYLWTTCCQKLPPQNFVNFRLIKFLAKLAQTSVNMKTPSNIATVLPNLLWAKQEGTLAEIA
AATSVHVAVIEPIIQHADWFFPGEVEFNVSEAFVPLATPNSNHSSTGNDSDSGTLERKRPASMAVMEG
DLVKKESPPKPKDSVSAAPVPAAGRNSNQMTTPVNPQAQTGGNSHQLSVSTPHSAAGSPHTLRRAVKPPAP
APPKPGNLPFGHPGGQSSPGTGTSPKPSARSPSPQQQQQQQQQQQQQQQTPGMRRCSSSLPPIQAPS
HPPPQPPTQPRLGEQPEPGPTPPQTPPPSTPLAKQNPSSQSETTQLHGTLPRPRPVKPRNRPVPPP
PHPPGHTVDGGLTSSVPTASRIVDTNSRVSESLRSIFPEIHSDLASKEVPGHILLDIDNDTESTAL
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2012_f01.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



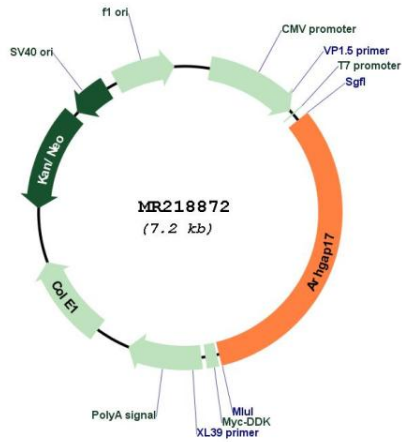
* The last codon before the Stop codon of the ORF

ACCN: NM_001122641

ORF Size: 2304 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_001122641.1, NP_001116113.1</p>
RefSeq Size:	<p>3269 bp</p>
RefSeq ORF:	<p>2307 bp</p>
Locus ID:	<p>70497</p>
UniProt ID:	<p>Q3UIA2</p>
Cytogenetics:	<p>7 F3</p>
MW:	<p>84.8 kDa</p>
Gene Summary:	<p>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]</p>

Product images:



Circular map for MR218872