

## Product datasheet for **MC221238**

### Arhgap17 (NM\_001122642) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap17 (NM_001122642) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >MC221238 representing NM\_001122642  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGAAGCAATTCAACCCGATGAAGCAGCTGGCCAATCAGACTGTCGGCAGAGCTGAGAAGACCGAAG  
 TCCTCAGTGAAGATCTGCTACAGATTGAACGTCGCCTGGACACTGTGCGTTCAATGTGCCACCATTACACA  
 TAAGCGTTTTGATAGCCTGCTTCCAAGGTCAGCATGGCACTGATGCCGAGAGGAGACATAAAAAGTTCTCT  
 CTGACAGCTCTTGCCAGAACATGCAGGAGGCTTCAGCCCAGCTGGAAGAGTCTCTCTTGGGGAAGATGC  
 TGGAGACCTGTGGGGACGCTGAGAACAGCTGGCTCTTGAACCTCACAAATGAAGTCTTTGTGGAGAA  
 GGAGATCATGGACCCTCTACGGCATAGCAGAGGTGGAGATTCCAATATCCAGAAGCAAAGGAAGCAG  
 CTTGCTAGATTGGTGTGGACTGGGATTCAGTCAGAGCGAGATGGAACCAAGCACACAAGTCTTCAGGAA  
 CCAACTTTCAGGGGCTTCATCCAAAATAGATACCCTAAAGGAAGAGATGGATGAAGCTGGGAATAAAGT  
 TGAACAGTGCAAGGATCAACTTGCAGCAGACATGTACAACCTCATGGCCAAGAAGGGGAGTATGGCAAG  
 TTCTTCGTGACGTTATTAGAAGCCAAGCAGATTACCATAGAAAAGCATTAGCAGTCTTAGAAAAGGCC  
 TTCCCGAAATGCGCGCCCATCAAGATAAGTGGGCAGAGAAGCCAGCCTTCGGCACACCTCTGGAGGAACA  
 CCTGAAGAGGAGTGGGCGTGAGATCGCCCTGCCTATTGAGGCCTGTGTCATGTTGTTGCTGGAGACTGGC  
 ATGAAAGAGGAGGGCCTTTTTCGGATTGGAGCTGGAGCCTCCAAGTTGAAGAAGCTGAAAGCTGCTCTCG  
 ACTGCTCCACATCGCATCTGGATGAATTCTATTCTGATCCCCATGCTGTCGCAGGTGCTTTAAAGTCTTA  
 TCTGCGGGAGTTGCCAGCCCTAATGACTTTTCACTGTATGAAGAATGGACACAAGTTGCAAGTGTG  
 CAGGATCAAGACAAAAAATTCAATATTTATGGACAACATGTGAGAAGTTGCCGCCACAAAATTTTGTTA  
 ACTTTAGGTATTTAATCAAGTTCTTGCAAAAGCTTGCCAGACCAAGTACGTTAATAAAATGACTCCTG  
 CAACATAGCCATTGTCTGGGCCCTAACCTCCTGTGGGCCAAACAAGAAGGAACGCTGGCTGAAATAGCG  
 GCTGCCACATCGTCCAGTGGTTGCAAGTATTGAGCCATCATCCAGCATGCAGATTGGTTCTTCCTG  
 GAGAGGTAGAATCAATGTATCAGAAGCATTGTGCCACTTGCTACCCCGAATTCTAATCACTCATCCCA  
 TACTGAAATGACTCTGACTCGGGGACTCTGGAGAGGAAGCGACCTGCCAGCATGGCAGTATGGAAGGG  
 GACTTGGTGAAGAAGGAGAGTCTCCAAAACCCAAAGACTCCGTGTGTCAGCTGTCCCTGCAGCAGGAA  
 GGAACAGCAACCAGATGACCACGGTCCCAAACCCAGGCTCAGACAGGTGGCAACTCCCATCAGCTCTCAGT  
 AAGCACACCTCACAGTGCAGCCGGTCCCAGCCGCACACTCTGCGTGGGCTGTGAAGAACTGCCCC  
 GCACCCCCAAACCAGGAAACCTACCTCCTGGCCACCCTGGAGGACAGAGCTCTCCTGGCACAGGCACAT  
 CCCCAAAGCCAAGCGCCGAAGCCATCACCGCCTCAGCAGCAGCAGCAGCAACAACAGCAGCAACA  
 ACAGCAGCAGCAGCAGACCCAGGCATGCGCCGCTGCTCCAGCAGCCTGCCTCCCATCCAGGCACCCAGC  
 CACCCACCACACAGCCCCCACACAGCCTCGGTTGGGTGAACAGGGACCAGAGCCAGGCCCCACGCCAC  
 CTCAAACCCACACACCTAGCACCCACCCCTGGCCAAGCAGAATCCATCGAAAGTGAGACCACACA  
 GCTGCACGGAACCCTCCCAAGACCACGGCAGTGCCCAAGCCCGCAACCGGCTAGCGTGCCACCACCC  
 CCACATCCACCTGGCACCCACACGGTGGATGGTGGCCTTACATCCTCAGTGCCACAGCCTCCAGAATCG  
 TCACTGATGCCCTTCCCGGTGCCCTCACAGGTGGGAAGGTTCCAGAACTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001122642

**Insert Size:** 2223 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001122642.1, NP_001116114.1</u>
<b>RefSeq Size:</b>	3317 bp
<b>RefSeq ORF:</b>	2223 bp
<b>Locus ID:</b>	70497
<b>UniProt ID:</b>	<u>Q3UIA2</u>
<b>Cytogenetics:</b>	7 F3
<b>Gene Summary:</b>	<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> <p>Transcript Variant: This variant (4) has multiple differences in the coding region compared to variant 1, one of which results in a frameshift. The resulting protein (isoform d) is shorter and has a distinct C-terminus compared to isoform a.</p>