

## Product datasheet for **RC209915**

### **ARHGAP17 (NM\_001006634) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ARHGAP17 (NM_001006634) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARHGAP17
Synonyms:	MST066; MST110; MSTP038; MSTP066; MSTP110; NADRIN; PP367; PP4534; RICH-1; RICH1; WBP15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC209915 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGAAGCAGTTCAACCCGATGAAGCAGCTGGCTAACAGACCGTGGCAGAGCTGAGAAAACAGAAG  
 TCCTTAGTGAAGATCTATTACAGATTGAGAGACGCTGGACACGGTGCAGTCAATATGCCACCATTCCCA  
 TAAGCGCTTGGTGGCATGTTTCCAGGGCCAGCATGGCACCGATGCCGAGAGGAGACACAAAAAAGTGCCT  
 CTGACAGCTCTTGCTCAAAATATGCAAGAAGCATCGACTCAGCTGGAAGACTCTCTCTGGGGAAGATGC  
 TGGAGACGTGTGGAGATGCTGAGAATCAGCTGGCTCTCGAGCTCTCCAGCACGAAGTCTTTGTTGAGAA  
 GGAGATCGTGGACCTCTGTACGGCATAGCTGAGGTGGAGATTCCCAACATCCAGAAGCAGAGGAAGCAG  
 CTTGCAAGATTGGTGTAGACTGGGATTCAGTCAGAGCCAGGTGGAACCAAGCTCACAAATCCTCAGGAA  
 CCAACTTTCAGGGGCTTCCATCAAAAATAGATACTCTAAAGGAAGAGATGGATGAAGCTGGAATAAAGT  
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 TTCTTTGTTACGTTATTAGAAGCCCAAGCAGATTACCATAGAAAAGCATTAGCAGTCTTAGAAAAGACCC  
 TCCCCGAAATGCGAGCCCATCAAGATAAGTGGGCGGAAAAACAGCCTTTGGGACTCCCCTAGAAGAACA  
 CCTGAAGAGGAGCGGGCGGAGATTGCGCTGCCATTGAAGCCTGTGTCATGCTGCTTCTGGAGACAGGC  
 ATGAAGGAGGAGGGCCTTTCCGAATTGGGGCTGGGGCTCCAAGTTAAAGAAGCTGAAAGCTGCTTTGG  
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 TTTACGGGAATTGCTGAACTTTGATGACTTTAATCTGTATGAAGAATGGACACAAGTTGCAAGTGTG  
 CAGGATCAAGACAAAAAAGCTTCAAGACTGTGGAGAATGTGCAAGTTGCCACCACAAAATTTTGTTA  
 ACTTTAGATATTTGATCAAGTTCTTGCAGGCTTGGTCTCAGACCCAGCGATGTGAATAAAATGACTCCC  
 CAACATTGCGATTGTGTTAGGCCCTAAGTTGTTATGGGCCAGAAATGAAGGAACACTTGCTGAAATGGCA  
 GCAGCCACATCCGTCCATGTGGTTGCAAGTATTGAACCCATCATTAGCATGCCGACTGGTTCTTCCCTG  
 AAGAGGTGGAATTTAATGTATCAGAAGCATTGTACCTCTCACCACCCGAGTTCTAATCACTCATTCCA  
 CACTGGAACGACTCTGACTCGGGGACCCTGGAGAGGAAGCGGCCTGCTAGCATGGCGGTGATGGAAGGA  
 GACTTGGTGAAGAAGGAAAGCTTTGGTGTGAAGCTTATGGACTTCCAGGCCACCAGCGGGTGGCACTC  
 TAAATAGAAAGCACATATCCCCGCTTTCAGCCGCCACTTCCGCCACAGATGGCAGCACCGTGGTGCC  
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 CGAGCTGTTAAAAAACCCGCTCCAGCACCCCCGAAACCGGGCAACCCACCTCCTGGCCACCCCGGGGGCC  
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 TGAGCAGCCATCTCACACCCCTCCCAGACTCCAACGCCCCCAAGTACTCCGCCCTAGGAAAACAGAAC  
 CCCAGTCTGCCAGCTCCTCAGACCTGGCAGGGGTAACCTGAAACTGCACAGCCACATGCTGGAACCT  
 TACCGAGACCGAGACCAGTACCAAAGCCAAGGAACCGGCCAGCGTGCCCCACCCCCCAACCTCCTGG  
 TGTCCACTCAGCTGGGACAGCAGCCTACCAACACAGCACCAACAGCTTCCAAGATAGTAACAGACTCC  
 AATTCCAGGGTTTCAGAACCGCATCGCAGCATCTTCTGAAATGCACTCAGACTCAGCCAGCAAAGACG  
 TGCTGGCCGATCCTGCTGGATATAGACAATGATACCGAGAGCACTGCCCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC209915 protein sequence  
 Red=Cloning site Green=Tags(s)

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MKKQFNRMKQLANQTVGRAEKTEVLSEDLQLIERRLDTVRSICHHSHKRLVACFQGQHGTAERRHKKLP
LTALAQNMQEASTQLEDLLGKMLETCGDAENQLALELSQHEVFVEKEIVDPLYGIAEVEIPNIQKQRKQ
LARLVLDWDSVRARWNQAHKSSGTFNQGLPSKIDTLKEEMDEAGNKVEQCKDQLAADMVNFMAKEGEYKG
FFVTLLEAQADYHRKALAVLEKTLPEMRAHQDKWAEKPAFGTPLEEHLKRSGREIALPIEACVMLLLETG
MKEEGLFRIGAGASKLKKLKAALDCSTSHLDEFYSDPHAVAGALKSYLRELPEPLMTFNL YEEWTQVASV
QDQDKKLQDLWRTCQKLPQNFVNFRLIKFLAKLAQTSVNMKTPSNIATVLPNLLWARNEGTLAEMA
AATSVHVAVIEPIIQHADWFFPEEVEFNVSEAFVPLTTPSSNHSFHTGNDSDSGTLERKPASMAVMEG
DLVKKESFGVKLMDFQAHRGGTLNRKHI SPAFQPPLPPTDGSTVVPAGPEPPPQSSRAESSGGGTVPS
SAGILEQGPSPGDGSPPKPKDPVSAAVPAPGRNNSQIASGQNQPQAAAGSHQLSMGQPHNAAGPSPHTLR
RAVKKPAPAPPKGNPPGHPGGQSSSGTSQHPPSLSPKPPTRSPSPPTQHTGQPPGQPSAPSQLSAPRR
YSSSLSPIQAPNHPPPQPTQATPLMHTKPN SQPPNPMALPSEHGLEQPSHTPPQTPPTPSTPPLGKQN
PSLPAPQTLAGGNPETAQPHAGTLPRPRPVKPRNRPSVPPPPQPPGVHSAGDSSLTNTAPTASKIVTDS
NSRVSEPHRSIFPEMHSASASKDVPGRILLDIDNTESTAL
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6366\\_e08.zip](https://cdn.origene.com/chromatograms/mk6366_e08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:

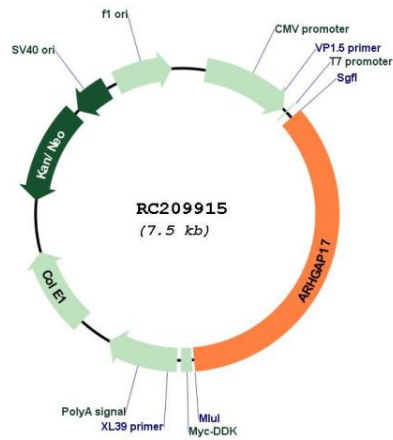


\* The last codon before the Stop codon of the ORF

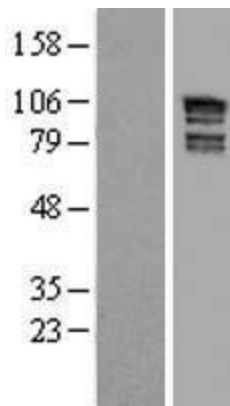
**ACCN:** NM\_001006634

<b>ORF Size:</b>	2643 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001006634.3</a>
<b>RefSeq Size:</b>	3526 bp
<b>RefSeq ORF:</b>	2646 bp
<b>Locus ID:</b>	55114
<b>UniProt ID:</b>	<a href="#">Q68EM7</a>
<b>Cytogenetics:</b>	16p12.1
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	95.4 kDa
<b>Gene Summary:</b>	RICH1 is a GTPase-activating protein (GAP). GAPs stimulate the intrinsic GTP hydrolysis of small G proteins, such as RHOA (MIM 165390), RAC1 (MIM 602048), and CDC42 (MIM 116952). [supplied by OMIM, Apr 2004]

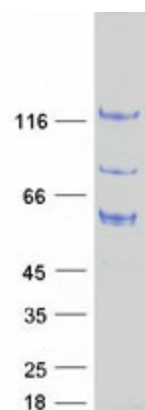
Product images:



Circular map for RC209915



Western blot validation of overexpression lysate (Cat# [LY423531]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209915 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ARHGAP17 protein (Cat# [TP309915]). The protein was produced from HEK293T cells transfected with ARHGAP17 cDNA clone (Cat# RC209915) using MegaTran 2.0 (Cat# [TT210002]).