

## Product datasheet for **RR217242**

### Arhgap17 (NM\_001270693) Rat Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                          |
| Product Name:             | Arhgap17 (NM_001270693) Rat Tagged ORF Clone |
| Tag:                      | Myc-DDK                                      |
| Symbol:                   | Arhgap17                                     |
| Synonyms:                 | Rich1  |
| Mammalian Cell Selection: | Neomycin                                     |
| Vector:                   | pCMV6-Entry (PS100001)                       |
| E. coli Selection:        | Kanamycin (25 ug/mL)                         |



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**ORF Nucleotide Sequence:**

>RR217242 representing NM\_001270693  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGAAGCAATTCAACCCGATGAAGCAGCTGGCCAACCCAGACTGTCGGCAGAGCTGAGAAGACAGAAG  
 TCCTCAGTGAAGATCTGCTACAGATTGAACGTCGACTGGACACTGTGCGGTCAATGTGCCACCATTACACA  
 TAAGCGTTTGATAGCCTGCTTCCAAGGTCAGCATGGCACCCGATGCTGAGAGGAGACATAAAAAGTTCCT  
 CTGACAGCTCTCGCCAGAACATGCAGGAAGCTTCAGCCAGCTGGAAGAGTCTCTCTTGGGGAAGATGC  
 TGGAAACCTGTGGGGATGCTGAGAATCAGCTGGCTTTTGAACCTCTCAGCATGAGGTCTTTGTGGAGAA  
 GGAGATCATGGACCCTCTACGGCATAGCGGAGGTGGAGATTCCAACATCCAAAAGCAAAGGAAACAG  
 CTTGCTAGATTGGTGTGGACTGGGATTAGTCAGAGCAAGATGGAACCAAGCACACAAGTCTTCAGGAA  
 CCAACTTTCAGGGACTTCCATCTAAAATAGATACCCTAAAGGAAGAGATGGATGAAGCTGGAATAAAGT  
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 TTCTTTGTGACGTTATTAGAAGCCAAGCAGATTACCATAGAAAAGCATTAGCAGTCTTAGAAAAGGCC  
 TTCCCGAAATGCGCGCCCATCAAGATAAATGGGCAGAGAAGCCAGCCTTCGGTACACCTCTGGAGGAACA  
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 ATGAAGGAGGAGGGCCTTTTTCGGATCGGAGCTGGAGCCTCCAAGTTGAAGAAGCTGAAAGCTGCTCTCG  
 ACTGCTCCACGTCTCACCTGGATGAGTTCTATTCAGACCCCCATGCTGTCGCAGGTGCTTTAAAGTCTTA  
 TTTGCGGGAAGTGCCTGAGCCCTAATGACTTTCAGTCTGTATGAAGAGTGGACACAAGTTGCAAGTGTG  
 CAGGATCAAGACAAAAAAGTCAATATTTATGGACAACATGTGAGAAGTTGCCGCCACAAAATTTTGTTA  
 ACTTTAGGTATTTAATCAAGTTCCTTGCAAAAGCTCGCCAGACCCAGTGTGTTAATAAAAAGTCACTCTAG  
 CAACATAGCCATCGTGTGGGCCCTAACCTCCTGTGGGCCAAACAAGAAGGAACCCCTGGCTGAAATAGCG  
 GCTGCCACATCTGTCACGTGGTTCGAGTATTGAACCTATCATCCAGCATGCCGATTGGTTCTTCCCCG  
 GAGAGGTAGAATTCAATGTATCAGAAGCATTCTGCTCTTGCTACCCCAAATTCTAATCACTCATCCCA  
 TACTGGAATGACTCTGACTCGGGGACTCTGGAGAGGAAGCGACCCGCCAGCATGGCAGTGTGGAAGGG  
 GACTTGGTGAAGAAGGAGAGCTTTGGTGTGAAGCTTATGGACTTCCAGGCCACCCGGCGGGTGGCACTC  
 TAAATAGAAAAGCACATATCTCTGCTTTCAGCCGCCACTCCCGCCACGGATGGCAACGCCTTGGCTCC  
 AGCAGGCCAGAGCTCCCTTCTCAGAGCTTAGGGCTGACAGCAACTCAGTGGGTGGCCTGTCCCCTCT  
 TCTTCGGGCATATTGGAGCAGGGGCTGAGCCCAGGTGACAGCAGTCTCCAAAACCCAAAGACTCTGTGT  
 CTGACAGTGCCTGTGGCAGGAAGAAACAGCAACCAGATAACCACGGTCCCAAACCCAGGCCAGACAGG  
 TGGCAACTCCCATCAGCTCTCAGTAGGCACAGCTCACAGTGCAGCTGGCCCCAGCCCGCACACTCTGCGT  
 CGAGCTGTGAAGAAACCTGCTCCGGCACCCCCAAACCAGGAAACCCACCTCCTGGCCACCTGGAGGAC  
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 CAGCAGACCCCGGCATGCGCCGCTGTTCCAGCAGCCTGCCTCTATCCAGGCACCCAAACCCACCAC  
 CGCAGCCCCACACAGCCTCGGCTGGTGAACAGGGACCAGAGCCAGGCCCCACGCCACCTCAGACCCC  
 CACACCACCCAGCACCCACCCCGGCCAAGCAGAATTCATCCAAAGCGAGACCACACAGCTGCATGGA  
 ACCCTCCAAAGGCCACGGCCAGTGCCTAAACCCCGCAACCGGCCTAGTGTGCCACCACCCCGAATCCAC  
 CTGGCACCCACATGGGGATGGTGGCCTCACACCTTCAAGTGCACAGCCTCCAGAATCGTCACTGATGC  
 CCTTCCGGTGCCTCACAGGTGGGGAAGGTTTCCAGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR217242 representing NM\_001270693  
 Red=Cloning site Green=Tags(s)

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MKKQFNRMKQLANQTVGRAEKTEVLSDDLQIERRLDTVRSMCHHSHKRLIACFQGQHGTAERRHKKLP
LTALAQNMQEASAQLEESLLGKMLETCGDAENQLAFELSQHEVFVEKEIMDPLYGIAEVEIPNIQQRKQ
LARLVLDWDSVRARWNQAHKSSGTNFQGLPSKIDTLKEEMDEAGNKVEQCKDQLAADMYNFMAKEGEYK
FFVTLLEAQADYHRKALAVLEKALPEMRAHQDKWAEKPAFGTPLEEHLKRSGREIALPIEACVMLLLETG
MKEEGLFRIGAGASKLKKLKAALDCSTSHLDEFYSDPHAVAGALKSYLRELPEPLMTFSLYEEWTQVASV
QDQDKKLQYLWTTCCQKLPPQNFVNFRLIKFLAKLAQTSVNMKTPSNIAIVLGPPLLWAKQEGTLAEIA
AATSVHVAVIEPIIQHADWFFPGEVEFNVSEAFVPLATPNSNHSSHTGNDSDSGTLERKRPASMAVMEG
DLVKKESFGVKLMDFQAHRGGTLNRKHI SPAFQPPLPPTDGNALAPAGPELPSQSSRADSNVGGPVPS
SSGILEQGLSPGDSSPPKPKDSVAAAAPVAGRNSNQITTVPNQAQTGGNSHQLSVGTAHSAAGPSPHTLR
RAVKKPAPAPPKGNPPPGHPGGQSSPGTGTSPKPSTRSPSPQQQQQQQQQQQQQQQQQQQQQQQQQQ
QQTPGMRRCSSSLPIQAPNHPPPQPPTQPRLGEQGEPEGTPPQTPTPPSTPPPAKQNSSQSETQLHG
TLPRPRPVKPRNRPSVPPPPNPPGTHMGDGLTPSVPTASRIVTDALPGALTGGEGFQN
  
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001270693

**ORF Size:** 2490 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** 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).

**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\\_001270693.1](#), [NP\\_001257622.1](#)

**RefSeq Size:** 3426 bp

**RefSeq ORF:** 2493 bp

**Locus ID:** 63994

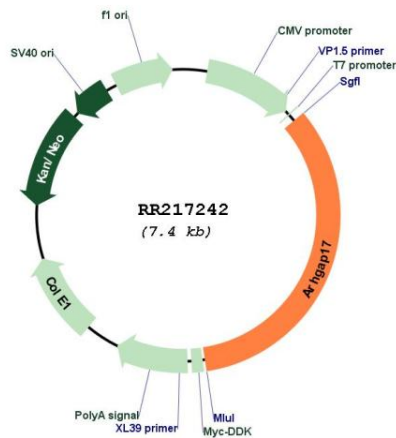
**UniProt ID:** [Q99N37](#)

**Cytogenetics:** 1q36

**MW:** 90.5 kDa

**Gene Summary:** activates RhoA, Rac1, and Cdc42 GTPases, plays a role in regulation of calcium ion dependent exocytosis, may regulate actin filament reorganization [RGD, Feb 2006]

### Product images:



Circular map for RR217242