

## Product datasheet for **MR207143**

### Arhgap15 (BC034881) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap15 (BC034881) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arhgap15
Synonyms:	5830480G12Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207143 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGAATCAAAAATGCCAACAGCCACCAAGACAGGCAGAGCCAAACTAAATCCATGATCCTCACCGATG  
 CTGGGAAGGTCACTGAACCTATTTCCCGCACAGAAGGAATCATTACAGCATGTGTTGAAAGATGTCAT  
 TCCACCACTAGAACATCCAATGGTTGAAAAAGAAGGGTATCTTCAAAAAGCCAAAATTGCAGATGGAGGA  
 AAGAACTAAGGAAAACTGGTCTACTTCTGGATTGTTCTTTCTGGTCGAAAAATTGAATTTTACAAG  
 ACTCCAAGCAGCAAGCTTCTTAACATGAAAACCAAGGCACAACGTGGAAGTGTGGATTGTGTGGTGC  
 ACATATAGAATGGGCCAAAGAAAAATCAAGCAGAAAGAGTGTCTTTCAGATCACAAACAGTGTGAGAAAT  
 GAGTTCCTTCTACAGTCAGATATTGACTTCCTCATATTGGATTGGTTCGAAGCTATCAAAAATGCAATTG  
 ACAGATTGCCAAAGAATCCAAGTTGTGGTCCCTGGAGTTGTTCAATTTGCAGAGATCCTCAAGTCTGA  
 ACTGCCGAGTCACTGCCACATCGATAGAAAAGAACAGAAACAGAACACAGGAAGTCTTTCATGTTTCGA  
 CTGCACCACAGTCTTCTGATACAAGTGACAAGAATCGCGTGAAGAGCAGACTGAAGAAGTTCATCTCCA  
 GAAGACCTTCTCTGAAAACCTTTCAGGAAAAGGGACTCATTAAAGATCAATTTTTGGCTCTCATCTGCA  
 CACAGTGTGTGAACGAGAACATTCACAGTTCATGGTTTGTAAAGCAATGCATTGAAGCTGTTGAAAA  
 AGAGGCCTAGACGTTGATGGAATTTATCGAGTTAGTGGCAATCTTGCAACAATACAGAAGTTAAGATTTA  
 TTGTCAACCAAGAAGAGAAGCTGAATTTGGATGACAGCCAGTGGGAGGACATCCACGTCGTCACCGGAGC  
 ACTGAAGATGTTTTCCGGGAGCTGTCTGAACCGCTCTCCCTTACAGTTCTTTGAGCGGTTTGTGGAG  
 GCGATCAAAAAACAAGACAGCAATGAAAAATTGAACTATGAGGTCTCTGGTAAAACGCTCCCTCCAC  
 CAATCATGATACCATGAAAATCCTCTTCAGACATCTAACCAAGATAGTGCCAAAAGCCTCCAGAATCT  
 CATGTCCACCCAAAGCTTGGGGATTGTGTTTGGACCCACCTTCTGCGAGCGGAAAAATGAGTCAGGGAAT  
 GTAGCGGTCCACATGGTATACAAAACAGATAGCAGAGTTCATGCTGACTGAGTACGATAAGATCTTCA  
 GCTCAGAGGAAGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207143 protein sequence  
 Red=Cloning site Green=Tags(s)

MRIKNANSHQDRQSQTSMILTDAGKVTEPISRHRNHSQHVLKDVIPPLEHPMVEKEGYLQKAKIADGG  
 KKLKRNWSTSWIVLSGRKIEFYKDSKQALPNMKTRHNVESVDLCGAHIEWAKEKSSRKSVMFQITTVSGN  
 EFLQLQSDIDFLILDWFQAIKNAIDRLPKNPSCGSLELFLNLRSSSELP SHCHIDRKEQKPEHRKSFMR  
 LHHSASDTSKNRVKSRLKFFISRRPSLKTLEKGLIKDQIFGSHLHTVCEREHSTVPWFVKQCI EAVEK  
 RGLDVGDIYRVSNLATIQKLRFINVNEEKLNLDDSQWEDIHVVTGALKMFFRELSEPLFPYSFFERFVE  
 AIKKQDSNEKIETMRSLVKRLPPNHD TMKILFRHLTKIVAKASQNL MSTQSLGIVFGPTLLRAENESGN  
 VAVHVMVYQNQIAEFMLTEYDKIFSSEED

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

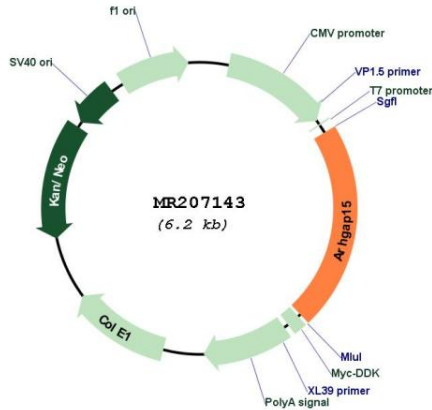
SgfI-MluI



**MW:** 51.8 kDa

**Gene Summary:** The protein encoded by this gene is a RAC GTPase-activating protein that is regulated through its PH domain and by recruitment to the membrane. The protein accelerates hydrolysis of guanosine triphosphate to guanosine diphosphate to repress Rac activity. Knock-out of Arhgap15 function demonstrates that this gene is required to regulate multiple functions in macrophages and neutrophils. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2014]

**Product images:**



Circular map for MR207143