

Product datasheet for **MG207143**

Arhgap15 (BC034881) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap15 (BC034881) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arhgap15
Synonyms:	5830480G12Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207143 representing BC034881
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGAATCAAAAATGCCAACAGCCACCAAGACAGGCAGAGCCAAACTAAATCCATGATCCTCACCGATG
 CTGGGAAGGTCACTGAACCTATTTCCCGCACAGAAGGAATCATTACAGCATGTGTTGAAAGATGTCAT
 TCCACCACTAGAACATCCAATGGTTGAAAAAGAAGGGTATCTTCAAAAAGCCAAAATTGCAGATGGAGGA
 AAGAACTAAGGAAAACTGGTCTACTTCTGGATTGTTCTTTCTGGTCGAAAAATTGAATTTTACAAAG
 ACTCCAAGCAGCAAGCTTCTTAACATGAAAACCAAGGCACAACGTGGAAAGTGTGGATTGTGTGGTGC
 ACATATAGAATGGGCCAAAGAAAAATCAAGCAGAAAGAGTGTCTTTCAGATCACAAACAGTGTGAGAAAT
 GAGTTCCTTACAGTCAGATATTGACTTCCTCATATTGGATTGGTTCGAAGCTATCAAAAATGCAATTG
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 ACTGCCGAGTCACTGCCACATCGATAGAAAAGAACAGAAACAGAACACAGGAAGTCTTCATGTTTCGA
 CTGCACCACAGTCTTCTGATACAAGTGACAAGAATCGCGTGAAGAGCAGACTGAAGAAGTTCATCTCCA
 GAAGACCTTCTCTGAAAACCTTTCAGGAAAAGGGACTCATTAAAGATCAATTTTTGGCTCTCATCTGCA
 CACAGTGTGTGAACGAGAACATTCACAGTTCATGGTTTGTAAAGCAATGCATTGAAGCTGTTGAAAA
 AGAGGCCTAGACGTTGATGGAATTTATCGAGTTAGTGGCAATCTTGCAACAATACAGAAGTTAAGATTTA
 TTGTCAACCAAGAAGAGAAGCTGAATTTGGATGACAGCCAGTGGGAGGACATCCACGTGTCACCGGAGC
 ACTGAAGATGTTTTCCGGGAGCTGTCTGAACCGCTCTCCCTTACAGTTCTTTGAGCGGTTTGTGGAG
 GCGATCAAAAAACAAGACAGCAATGAAAAAATTGAAACTATGAGGTCTCTGGTAAAACGTCTCCCTCCAC
 CAAATCATGATACCATGAAAATCCTCTTCAGACATCTAACCAAGATAGTGGCCAAAGCCTCCAGAATCT
 CATGTCCACCCAAAGCTTGGGGATTGTGTTTGGACCCACCTTCTGCGAGCGGAAAAATGAGTCAGGGAAT
 GTAGCGGTCCACATGGTATACAAAACAGATAGCAGAGTTCATGCTGACTGAGTACGATAAGATCTTCA
 GCTCAGAGGAAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207143 representing BC034881
 Red=Cloning site Green=Tags(s)

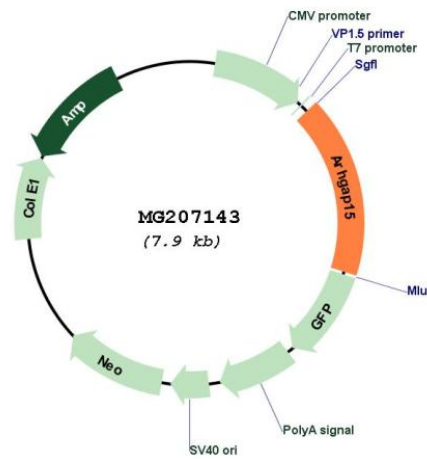
MRIKNANSHQDRQSQTSMILTDAGKVTEPISRHRNHSQHVLKDVIPPLEHPMVEKEGYLQKAKIADGG
 KKLRKNWSTSWIVLSGRKIEFYKDSKQQALPNMKTRHNVESVDLCGAHIEWAKEKSSRKSVMFQITTVSGN
 EFLQLQSDIDFLILDWFQAIKNAIDRLPKNPSCGSLEL FNLQRSSSELPSHCHIDRKEQKPEHRKSFMFR
 LHHSASDTSKNRVKSRLKKFISRRPSLKTLEKGLIKDQIFGSHLHTVCEREHSTVPWFVKQCIEAVEK
 RGLDVGDIYRVSGNLATIQKLRFINVQEEKLNLDSSQWEDIHVVTGALKMFFRELEPLFPYSFFERFVE
 AIKKQDSNEKIETMRSLVKRLPPPHDTHMKILFRHLTKIVAKASQNL MSTQSLGIVFGPTLLRAENESGN
 VAVHVMVYQNQIAEFMLTEYDKIFSSEED

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: BC034881

ORF Size: 1346 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:	<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:	<u>BC034881, AAH34881</u>
RefSeq Size:	1724 bp
RefSeq ORF:	1346 bp
Locus ID:	76117
Cytogenetics:	2 B
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]