

Product datasheet for **MR230110**

Arhgap15 (NM_001301831) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap15 (NM_001301831) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arhgap15
Synonyms:	5830480G12Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230110 representing NM_001301831
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAAAAGGACAAGCTGCAGTGTGCAGACATCTACAACTGTGACAACTCTCTGAAAATACTGAATT
 CTGCCACCAAGCTACAGGAGCTGTGCAATGAGAATCAAAAATGCCAACAGCCACCAAGACAGGCAGAG
 CCAAACTAAATCCATGATCCTCACCGATGCTGGGAAGGCTCACTGAACCTATTTCCCGGCACAGAAGGAAT
 CATTACAGCATGTGTTGAAAGATGTCATTCCACCACTAGAACATCCAATGGTTGAAAAAGAAGGGTATC
 TTCAAAAAGCCAAAATTGCAGATGGAGGAAAGAACTAAGGAAAACTGGTCTACTTCTGGATTGTTCT
 TTCTGGTCGAAAAATTGAATTTTACAAAGACTCCAAGCAGCAAGCTCTTCTAACATGAAAACCAGGCAC
 AACGTGGAAGTGTGGATTTGTGTGGTGCACATATAGAATGGGCCAAAGAAAAATCAAGCAGAAAGAGTG
 TCTTTAGATCACAACAGTGTGAGGAAATGAGTTCCTTCTACAGTCAGATATTGACTTCTCATATTGGA
 TTGGTTCCAAGCTATCAAAAATGCAATTGACAGATTGCCAAAGAATCCAAGTTGTGGTCCCTGGAGTTG
 TTCAATTTGCAGAGATCCTCAAGTTCTGAACTGCCGAGTCACTGCCACATCGATAGAAAAGAACAGAAAC
 CAGAACACAGGAAGTCTTCATGTTTCCGACTGCACCACAGTGCTTCTGATACAAGTGACAAGAATCGCGT
 GAAGAGCAGACTGAAGAAGTTCATCTCCAGAAGACCTTCTCTGAAAACCTTGCAGGAAAAGGGACTCATT
 AAAGATCAAAATTTTGGCTCTCATCTGCACACAGTGTGTGAACGAGAACATTCCACAGTTCATGGTTTG
 TAAAGCAATGCATTGAAGCTGTTGAAAAAGAGGCCTAGACGTTGATGGAATTTATCGAGTTAGTGGCAA
 TCTTGAACAATACAGAAGTTAAGATTTATTGTCAACCAAGAAGAGAAGCTGAATTTGGATGACAGCCAG
 TGGGAGGACATCCACGTCTCACCGGAGCACTGAAGATGTTTTCCGGGAGCTGTCTGAACCGCTCTTCC
 CTTACAGTTTCTTTGAGCGGTTTGTGGAGCGATCAAAAAACAAGACAGCAATGAAAAAHTTGAACACTAT
 GAGGTCTCTGGTAAAACGTCTCCCTCCACCAAATCATGATACCATGAAAATCCTCTTCCAGACATTAACC
 AAATTCATAATCTTCAAACGCACCAGCTTCTTGATTTCCAATCAGATGGGATTTAGCCTGATCCAGACCC
 CAGCTGTGTCCTGTTCTGCCTACTAAGGGCACTGCATCAGAGAACATGTTTTCTCTAGAGGGAGACC
 TTTCCAAGACCCTGCCTCCCAACTCTCCCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230110 representing NM_001301831
 Red=Cloning site Green=Tags(s)

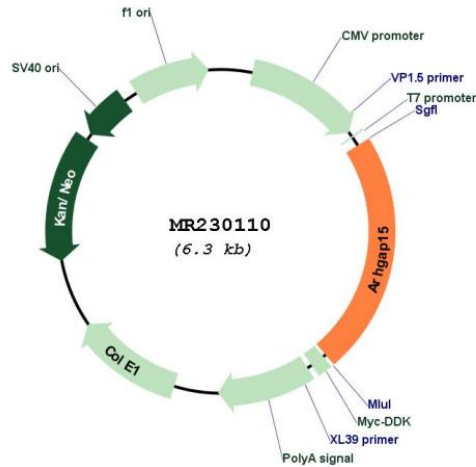
MEKRTSCSVQTSTNCDNSLEILNSAHQATGAVQMRIKNANSHQDRQSQTSMILTDAGKVTEPISRHRN
 HSQHVLDKDVIPPLEHPMVEKEGYLQKAKIADGGKLRKNWSTSWIVLSGRKIEFYKDSKQALPNMKTRH
 NVESVDLCGAHIEWAKESSRKSVMFQITTVSGNEFLQSDIDFLILDWFQAIKNAIDRLPKNPSCGSLEL
 FNLQRSSSELP SHCHIDRKEQKPEHRKSFMRLLHHSASDTSKDNRVKSRLKFI SRRPSLKTLEKGLI
 KDQIFGSHLHTVCEREHSTVPWFVKQCI EAVEKRGLDVGDIYRVSGNLATI QKLRFIVNQEEKLNLDSDQ
 WEDIHVVTGALKMFFRELEPLFPYSFFERFVEAIKKQDSNEKIETMRSLVKRLPPPNDTMKILFRHLT
 KFIIFKRTSFLISNQMGFSLIQTPAVSCSCLLRALHQRTCFLSRGRPFQDPASQLSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001301831

ORF Size: 1431 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_001301831.1](#), [NP_001288760.1](#)

RefSeq Size: 3118 bp

RefSeq ORF: 1434 bp

Locus ID: 76117

Cytogenetics: 2 B

MW: 55.5 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]