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Product datasheet for MR229392

Arhgap15 (NM_001301832) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap15 (NM_001301832) 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
ORF Nucleotide Sequence:	>MR229392 representing NM_001301832 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAAAACCAGGCACAACGTGGAAAGTGTGGATTTGTGTGGTGCACATATAGAATGGGCCAAAGAAAAAT CAAGCAGAAAGAGTGTCTTTCAGATCACAACAGTGTCAGGAAATGAGTTCCTTCTACAGTCAGATATTGA CTTCCTCATATTGGATTGGTTCCAAGCTATCAAAAATGCAATTGACAGATTGCCAAAGAATCCAAGTTGT GGGTCCCTGGAGTTGTTCAATTTGCAGAGATCCTCAAGTTCTGAACTGCCGAGTCACTGCCACATCGATA GAAAAGAACAGAAACCAGAACACAGGAAGTCCTTCATGTTTCGACTGCACCACAGTGCTTCTGATACAAG TGACAAGAATCGCGTGAAGAGCAGACTGAAGAAGTTCATCTCCAGAAGACCTTCTCTGAAAACTTTGCAG GAAAAGGGACTCATTAAAGATCAAATTTTTGGCTCTCATCTGCACACAGTGTGTGAACGAGAACATTCCA CAGTTCCATGGTTTGTAAAGCAATGCATTGAAGCTGTTGAAAAAAGAGGCCTAGACGTTGATGGAATTTA TCGAGTTAGTGGCAATCTTGCAACAATACAGAAGTTAAGATTTATTGTCAACCAAGAAGAGAAGCTGAAT TTGGATGACAGCCAGTGGGAGGACATCCACGTCGTCACCGGAGCACTGAAGATGTTTTTCCGGGAGCTGT CTGAACCGCTCTTCCCTTACAGTTTCTTTGAGCGGTTTGTGGAGGCGATCAAAAAACAAGACAGCAATGA AAAAATTGAAACTATGAGGTCTCTGGTAAAACGTCTCCCTCCACCAAATCATGATACCATGAAAATCCTC TTCAGACATCTAACCAAGATAGTGGCCAAAGCCTCCCAGAATCTCATGTCCACCCAAAGCTTGGGGATTG TGTTTGGACCCACCCTTCTGCGAGCGGAAAATGAGTCAGGGAATGTAGCGGTCCACATGGTATACCAAAA CCAGATAGCAGAGTTCATGCTGACTGAGTACGATAAGATCTTCAGCTCAGAGGAAGAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

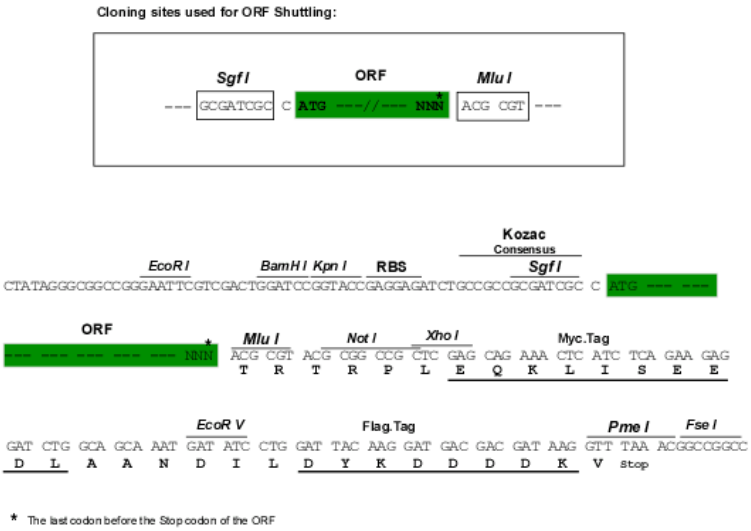
>MR229392 representing NM_001301832
Red=Cloning site Green=Tags(s)

MKTRHNVESVDLCGAHIEWAKEKSSRKSVFQITTVSGNEFLLQSDIDFLILDWFQAIKNAIDRLPKNPSC
GSLELFNLQRSSSSELPSHCHIDRKEQKPEHRKSFMFRLHHSASDTSDKNRVKSRLKKFISRRPSLKTLQ
EKGLIKDQIFGSHLHTVCEREHSTVPWFVKQCIEAVEKRGLDVDGIYRVSGNLATIQKLRFIVNQEEKLN
LDDSQWEDIHVVTGALKMFFRELSEPLFPYSFFERFVEAIKKQDSNEKIETMRSLVKRLPPPNHDTMKIL
FRHLTKIVAKASQNLMSTQSLGIVFGPTLLRAENESGNVAVHMVYQNQIAEFMLTEYDKIFSSEED

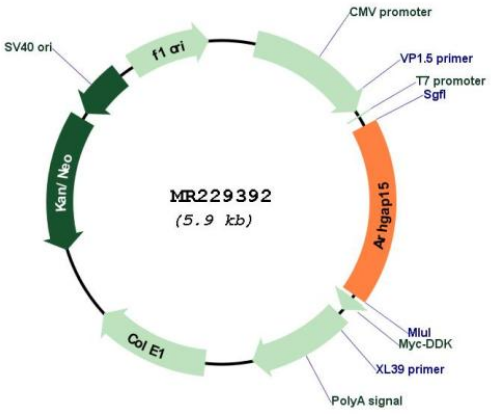
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001301832

ORF Size: 1038 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_001301832.1, NP_001288761.1
RefSeq Size:	2744 bp
RefSeq ORF:	1041 bp
Locus ID:	76117
Cytogenetics:	2 B
MW:	40.5 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]