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Product datasheet for MC227181

Arhgap15 (NM_001301832) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap15 (NM_001301832) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arhgap15
Synonyms:	5830480G12Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC227181 representing NM_001301832 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAAAACCAGGCACAACGTGGAAAGTGTGGATTTGTGTGGTGCACATATAGAATGGGCCAAAGAAAAAT CAAGCAGAAAGAGTGTCTTTCAGATCACAACAGTGTCAGGAAATGAGTTCCTTCTACAGTCAGATATTGA CTTCCTCATATTGGATTGGTTCCAAGCTATCAAAAATGCAATTGACAGATTGCCAAAGAATCCAAGTTGT GGGTCCCTGGAGTTGTTCAATTTGCAGAGATCCTCAAGTTCTGAACTGCCGAGTCACTGCCACATCGATA GAAAAGAACAGAAACCAGAACACAGGAAGTCCTTCATGTTTCGACTGCACCACAGTGCTTCTGATACAAG TGACAAGAATCGCGTGAAGAGCAGACTGAAGAAGTTCATCTCCAGAAGACCTTCTCTGAAAACTTTGCAG GAAAAGGGACTCATTAAAGATCAAATTTTTGGCTCTCATCTGCACACAGTGTGTGAACGAGAACATTCCA CAGTTCCATGGTTTGTAAAGCAATGCATTGAAGCTGTTGAAAAAAGAGGCCTAGACGTTGATGGAATTTA TCGAGTTAGTGGCAATCTTGCAACAATACAGAAGTTAAGATTTATTGTCAACCAAGAAGAGAAGCTGAAT TTGGATGACAGCCAGTGGGAGGACATCCACGTCGTCACCGGAGCACTGAAGATGTTTTTCCGGGAGCTGT CTGAACCGCTCTTCCCTTACAGTTTCTTTGAGCGGTTTGTGGAGGCGATCAAAAAACAAGACAGCAATGA AAAAATTGAAACTATGAGGTCTCTGGTAAAACGTCTCCCTCCACCAAATCATGATACCATGAAAATCCTC TTCAGACATCTAACCAAGATAGTGGCCAAAGCCTCCCAGAATCTCATGTCCACCCAAAGCTTGGGGATTG TGTTTGGACCCACCCTTCTGCGAGCGGAAAATGAGTCAGGGAATGTAGCGGTCCACATGGTATACCAAAA CCAGATAGCAGAGTTCATGCTGACTGAGTACGATAAGATCTTCAGCTCAGAGGAAGACTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001301832

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Insert Size:	1041 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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
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] Transcript Variant: This variant (4) contains an alternate exon in the 5' end of the transcript compared to variant 1. This causes translation initiation at a downstream AUG and results in an isoform (4) with a shorter N-terminus, compared to isoform 1.