

Product datasheet for **MC228947**

Arhgap6 (NM_001287530) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap6 (NM_001287530) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arhgap6
Synonyms:	A1504284; RhoGAPX-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228947 representing NM_001287530
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTACAAAATATTTGGTGACTTCACCTGGAACAGCATGTCTGGTCGTAGCGTGCCTGAGGTCAGTCC
 CCATCCAGAGCCTCTCAGAGCTGGAGCGGGCACGACTGCAGGAAGTGGCTTTTTATCAGTTGCAGCAGGA
 CTGTGACCTGGGCTGTGATACCATCCCAAGATGGACAAAAGAGAAAAGAAATCTTTGAGAAAAGAAA
 CTGGATCACTAGGGAAGGAAAAGAACAAAGACAAAGAATTCATCCACAGGCATTTGGAATGCCCTTAT
 CCCAAGTCATTGCTAATGACCGGCATATAAACTGAAGCAAGACTTGCAGAGGGAGGAGCAGAAGGATGC
 ATCATCGGATTTGTGTCTTCCCTCCTCCATTTGGGAATAAAAAACAAAACAAAGAACTCTCAAGCAGT
 AACTCATCTCTCAGCTCAACCTCAGAAACACCAATGAGTCTACATCACCGAATACTCCAGAACCAGCTC
 CTCGGGCCAGGAGAAGGGGCGCCATGTCGTGGATTCCATCACTGATCTGGATGACAACCAGTCTCGACT
 CCTAGAAGCTTTACAACCTCCTTGCCTGCTGAGGCTCAGAGTAAAAAGAAAAGGCCAGAGATAAGAAG
 CTGAGTCTGAATCCTATTTACAGGCAGGTCCTCCAGGCTGGTGGACAGCTGCTGTCAACATCTGAAAAAC
 ATGGCCTCCAGACAGTGGGGATATTCAGGTTGGAAGCTCAAAGAAGAGAGTAAGACAATTGCGTGAAGA
 ATTTGACCGTGGGGTTGATGTCTGTCTGGAAGAGGAGCATAGTGTTCACGATGTGGCAGCCTTGTAAAG
 GAGTTCCTTAGAGACATGCCTGACCCCTTCTCACAAGGGAGCTATACACTGCATTTATCAACACTCTCC
 TGTTGGAGCCTGAGGAACAACCTGGGCACCTTGAACCTCCTCATTTACCTTCTACCTCCCTGCAACTGCGA
 CACCCTCCACCGCCTCTACAGTTCCTCCTCATTTGTGGCCAGGCATGCTGATGATAATGTCAGCAAAGAT
 GGACAAGAGGTTACTGGGAACAAAATGACATCTCTGAACCTAGCCACTATATTTGGACCAACCTGCTCC
 ACAAGCAGAAGTCATCAGACAAAGAATATCTGTTTCAGAGCTCAGCCAGAGCTGAGGAGAGCAGCCAT
 CATAGCTGTGGTACAGAAGATGATTGAAAATTATGAAGCCTTGTTCATGGTTCCCCAGATCTCCGAAT
 GAAGTGTGATCAGCCTTCTAGAGACAGATCCAGATGTTGTGGACTACTTGTCTCAGAAGAAAGGCTTCCC
 AATCCTCGAGCCCTGACATACTCAGACGGAAGTTTCTTTTCCATGGGAGGGAGGCATTCATCTACAGA
 TTCCAACAAGCCTCCAGTGGAGACATCTCCCTTATGACAACAACCTCCCAAGTATTGTCTGAGCGCTCC
 CTGCTGGCTATGCAAGAGGACAGGGCCCGGGGGGCTCGGAGAAGCTTTATAAAGTGCCAGAGCAGTATA
 CACTGGTGGGCCACTTGTATCGCCAAAGTCAAAGTCAAGAGAAAGTTCTCCTGGACCAAGGCTTGGAAA
 AGAAATGTCAGAGGAGCCTTCAATATCTGGGAACTTGGCATTCAACATTAAGGATGGATCCAAAGAC
 CCAGGAATGACAGGCTCTTATGGCGACATTTTGAAGCAGCTCCCTCCGACCGAGGCTTGTCTCTTT
 CTAAGGGAACTTTCCCTGAACCTGGCCTCGGTGTCAAGGGAGCCGACAGGGCTGGACAGTGGCACTCA
 GGTAATTCGGAGGACTCAGACGGCGGCCACCGTGGAGCAGTGCAGTGTCCACCTTCCGGTGTACAGTGT
 TGCAGCACTCCCAACATCCAGGACGGCAGCAGGGGGACCAGGCGGCTGCAGCCAGCTCTGATCCATTTT
 TGTCCCTAAACAGCACAGAAGATCTAGCTGAGGGCAAGGAGGATGTTGCCTGGCTGCAAAGCCAGGCCCC
 ACCTGTGTACCAGAGACCTCAGGAGAGTGGAAAAGATGACAGGCGCCCCCTCCTCCTTACCCGGGGTCA
 GGAAGCCTGCCACAACCTCTGCCAGCTGCCACTAGAGCCTCCCTGTGGAGGCTCCAGAGGCATGAAG
 AAGTTTCAGAAACAGCTGTGGAAGGAGGCCAGCAGGCTCAGGGGAGCATCAGACCAGGCCAAAAAACT
 GAGCAGCGCTACTCCCTCTCAGCCAGCGAGCAGGACAAACAGAACTTAGGGGAAGCCAGCTGGCTCGAC
 TGGCAGCGAGAGCGGTGGCAGATCTGGGAGCTTCTATCAACTGATAACCCCGACGCCCTCCCGAAAACCC
 TAGTATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001287530
Insert Size: 2388 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:	<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>NM_001287530.1</u> , <u>NP_001274459.1</u>
RefSeq Size:	4147 bp
RefSeq ORF:	2388 bp
Locus ID:	11856
UniProt ID:	<u>O54834</u>
Cytogenetics:	X F5
Gene Summary:	<p>GTPase activator for the Rho-type GTPases by converting them to an inactive GDP-bound state. Could regulate the interactions of signaling molecules with the actin cytoskeleton. Promotes continuous elongation of cytoplasmic processes during cell motility and simultaneous retraction of the cell body changing the cell morphology (By similarity). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) represents the use of an alternate promoter, differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at an alternate start codon compared to variant 1. The encoded isoform (c) has a distinct N-terminus and is shorter than isoform a. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>