

Product datasheet for **SC125453**

ARHGAP6 (NM_013423) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP6 (NM_013423) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARHGAP6
Synonyms:	RHOGAP6; RHOGAPX-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF sequence for NM_013423 edited
ATGTCAGGCCCGCAGTGTACGGCTGAGGTGAGTCCCCATCCAGAGTCTCTCAGAGCTGGAG
AGGGCCCCGGTGCAGGAAGTGGCTTTTTATCAGTTGCAACAGGACTGTGACCTGAGCTGT
CAGATCACCATTCCCAAAGATGGACAAAAGAGAAAAGAAATCTTTAAGAAAGAAACTGGAT
TCACTAGGAAAGGAGAAAAACAAAGACAAAAGAAATTCATCCACAGGCATTGGAAATGCC
TTATCCCAAGTCATTGCGAATGACAGGGCCTATAAACTCAAGCAGGACTGCAGAGGGAC
GAGCAGAAAGATGCATCTGACTTTGTGGCTTCCCTCCTCCCATTTGGAAATAAAAGACAA
AACAAAGAACTCTCAAGCAGTAACTCATCTCTCAGCTCAACCTCAGAAACACCGAATGAG
TCAACGTCCCAACACCCCGGAACCGGCTCCTCGGGCTAGGAGGAGGGGTGCCATGTCA
GTGGATTCTATCACCGATCTTGATGACAATCAGTCTCGACTACTAGAAGCTTTACAACCT
TCCTTGCCTGCTGAGGCTCAAAGTAAAAAGGAAAAAGCCAGAGATAAGAAACTCAGTCTG
AATCCTATTTACAGACAGGTCCCTAGGCTGGTGGACAGCTGTGTGACACCTAGAAAA
CATGGCCTCCAGACAGTGGGATATTCCGAGTTGGAAGCTCAAAAAGAGAGTGAGACAA
TTACGTGAGGAATTTGACCGTGGGATTGATGTCTCTCTGGAGGAGGACACAGTGTTCAT
GATGTGGCAGCCTTGCTGAAAGAGTTTCTGAGGGACATGCCAGACCCCTTCTCACCAGG
GAGCTGTACACAGCTTTCATCAACACTCTTGTGGAGCCGGAGGAACAGCTGGGCACC
TTGCAGCTCCTCATATACCTTCTACCTCCCTGCAACTGCGACACCCCTCCACCGCCTGCTA
CAGTTCCTCTCCATCGTGGCCAGGCATGCCGATGACAACATCAGCAAAGATGGGCAAGAG
GTCAGTGGGAATAAATGACATCTCTAACTTAGCCACCATATTTGGACCCAACCTGCTG
CACAAGCAGAAGTCATCAGACAAAGAATCTCAGTTCAGAGTTACGCCGGGGCTGAGGAG
AGCACGGCCATCATCGCTGTTGTGCAAAAGATGATTGAAAATTATGAAGCCCTGTTTCATG
GTTCCCCCAGATCTCCAGAACGAAGTGTGATCAGCCTGTTAGAGACCGATCCTGATGTC
GTGGACTATTTACTCAGAAGAAAGGCTTCCAATCATCAAGCCCTGACATGCTGCAGTCG
GAAGTTTCCCTTTCCGTGGGAGGAGGCATTCTCTACAGACTCCAACAAGGCCTCCAGC
GGAGACATCTCCCTTATGACAACAACCTCCCAAGTGTCTGTGAGCGCTCCCTGTGGCT
ATGCAAGAGGACGCGCCCCGGGGGCTCGGAGAAGCTTTACAGAGTGCCAGGGCAGTTT
ATGCTGGTGGGCCACTTGTGTCGTCAAAGTCAAGGAAAGTTCTCCTGGACCAAGGCTT
GGGAAAGATCTGTGAGAGGACCTTTCGATATCTGGGAACTTGGCATTCAACATTA
AGCGGATCCAAAGACCCAGGAATGACAGGTTCTCTGGAGACATTTTGAAGCAGCTCC
CTAAGAGCGGGCCCTGCTCCCTTCTCAAGGAACTGTCCCAAAATTGGCCTCGGTGG
CAGGGGAGCCCCGAGAGCTGGACAGCGACACGCAGGGGGCTCGGAGGACTCAGGCCGCA
GCCCCCGCAGCGAGGGCAGGGCCACCTGCGGTGTGCGCGCCTGCAGCACGCCCCAC
GTCAGGTGGCAGGAAAGCCGAGCGGCCACGGCCAGGTCGGAGCAGTACTTGACCCTG
AGCGGCGCCCACGACCTCAGCGAGAGTGAGCTGGATGTGGCCGGGCTGCAGAGCCGGGCC
ACACCTCAGTGCCAAAGACCCCATGGGAGTGGGAGGGATGACAAGCGGCCCCCGCCTCCA
TACCCGGGCCAGGGAAGCCCGCGCAGCGGCAGCCTGGATCCAGGGGCCCCCGGAAGGC
GTGGAGACACCCACGGACCAGGGAGGCCAAGCAGCCGAGCGAGAGCAGCAGGTACCGCAG
AAAAACTGAGCAGCGCCAACCTCCTGCCAGCGGGCGAGCAGGACAGTCCGCGCTGGGG
GACGCTGGCTGGCTCGACTGGCAGAGAGAGCGCTGGCAGATCTGGGAGCTCCTGTGAC
GACAACCCCGATGCCCTGCCCGAGACGCTGGTCTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_013423 unedited
 ATTCGGCACCAGGGCAGCGGGACGCTGTGCCAGGGGCGCTTTGCACAGCACTCGGCACGC
 ACGGAGCAGGGCTCGCGCCAGGGGCTGCCCAAGGATGGCAGTGAAGTGCGGGGAAGTCA
 GAGAGACACCGTGACCCAGGCTGAGCCCAAGGCGGCCACTCTCCCGAGGGCGACATG
 GGGCACCCGGTGTACCGCGGCGAGAAGCCCAAGCTGCACTACGCGGGTGATTTACCTGG
 AACAGCATGTAGGCGGCGAGTACGGCTGAGGTGAGTCCCATCCAGAGTCTCTCAGAG
 CTGGAGAGGGCCCGGCTGCAGGAAGTGGCTTTTTATCAGTTGCAACAGGACTGTGACCTG
 AGCTGTCAGATCACCATTCCTCCAAAGATGGACAAAAGAGAAAAGAAATCTTTAAGAAAGAAA
 CTGGATCACTAGGAAAGGAGAAAAACAAGACAAAGAATTCATCCACAGGCATTTGGA
 ATGCCCTTATCCCAAGTATTGCGAACTACAGGGCCTATAAACTCAAGCAGGACTTGCA
 AGGGACGAGCAGAAAGATGCATCTGACTTTGTGGCTTCCCTCCTCCCATTTGGAAATAAA
 AGACAAAACANAGAACTCTCAAGCAGTAACTCATCTCAGCTCAACCTCAGAAACCCG
 AATGAGTCAACGTCCCAAAACACCCGGAACCGGCTCCTCGGGCTAGGAGGAGGGGTGCC
 ATGTCAGTGGATTCTATACCGATCTTGATGACCATCAGTCTCGACTACTAGAAGN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_013423 unedited
 CCCCATACTTGACCGGCCAATCTACATCGGTTTTTTTTTTTTTTTTTTTGTACAC
 TTTTTATTATCATGGCACAACATAGAACCTTAAGAAACACCAGTGGGAATTTATCACCA
 ACATGAAAATTAAGAGTAGCATGTTTTATAAAAAAAAAAAAAATCTTTTTTATAATACA
 CTTTCCCTTCAGAAAGTAAAAAAATTCATAAAATACTGTAAGCGTATCGCCATCTGCT
 GGTCAAAAATAGTTATGCACTTGATAATCTTCAAACACTAAAGTACGGTAGAACATTTT
 ACAATACACATAAAATTACCAAAGAAAACCTTCTCAGCCTTTGGCCCAATGTAAGTAC
 AACGCTGTAGGCCTTTACCCAATGTGATTTAGTTTTAAGGAACTGCATGTAACCTCGG
 ACAATACTGACCATGGGGCAAAGGGAAAAAACTGTTCTACCATTTGAACACCCCGCGCA
 CTCTAAACTCCTTACAACCGGATTCCAGTCCGCGCTGTTCCCAATACACCACAACACT
 CCCCTCCCCACGCCTTACCTCCTGCCATACACAACCCCATCCCCGTTTACCTGTGAC
 GGCCCACTCTCCACCTCCCTCGCGCGCACTTTCTCTCCTCGCTCCTTAACTGACAC
 CCTCCGCCAACTCCCCGCCACCACTCCCCCCTCCCATCCTGGATCGCCCCACGTCC
 CCTCAACACACACTCCTTACCTCACCCCCCTCTCTTCTAACCCCCCACCAGCTT
 CCCCCTCTCACACCAAGATCCCTTCTCGCGCTCCCTCCTCCTCCCCCTCAACACTCCT
 CCTGACTCCCCCTTATTCACTCCATCCGCCCCACTCCTCAACTCCCCATAACCCCTC
 CCTCCCCCACCACCC

Restriction Sites:

NotI-NotI

ACCN:

NM_013423

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).

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_013423.1](#), [NP_038267.1](#)

RefSeq Size: 3961 bp

RefSeq ORF: 2316 bp

Locus ID: 395

UniProt ID: [O43182](#)

Cytogenetics: Xp22.2

Domains: RhoGAP

Gene Summary: This gene encodes a member of the rhoGAP family of proteins which play a role in the regulation of actin polymerization at the plasma membrane during several cellular processes. This protein is thought to have two independent functions, one as a GTPase-activating protein with specificity for RhoA, and another as a cytoskeletal protein that promotes actin remodeling. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (4) has an alternate 5' exon and the translation starts with a downstream AUG codon, as compared to variant 1. The encoded isoform 4 has a shorter N-terminus, as compared to isoform 1.