

Product datasheet for **SC114733**

ARHGAP25 (NM_014882) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP25 (NM_014882) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARHGAP25
Synonyms:	HEL-S-308; KAIA0053
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_014882 edited
 ATGTCCCTCGGTCAAGGAGTGTGATG
 ACTGGCGAGCAGATGGCTGCCTTCCATCCATCGTCCACCCCAACCCGCTGGAGAGGCC
 ATCAAGATGGGCTGGCTGAAGAAGCAGAGGTCCATCGTGAAGAACTGGCAGCAGAGGTAC
 TTTGTGCTGAGGGCGCAGCAGCTCTACTACTACAAGGATGAAGAGGACACGAAGCCCCAG
 GGCTGCATGTATCTACCAGGATGTACAATCAAGGAGATCGCCACAACCCAGAAGAAGCT
 GGAAGTTTGTCTTTGAAATCATTCCAGCCTCATGGGACCAGAATCGCATGGGACAGGAC
 TCCTATGTCTCATGGCCAGCTCTCAGGCGGAGATGGAGGAGTGGTTAAATTCCTCAGG
 AGAGTTGCTGGCACACCTGTGGAGCAGTGTGGCCAGCGCTTGGATGAGACTGTGGCC
 TATGAACAGAAATTCGGCCCCATCTGGTGCCCATCCTGGTGGAGAAATGTGCAGAGTTC
 ATCCTGGAGCACGGCCGAATGAAGAGGCATCTTCCGTCTGCCTGGCAGGACAACCTG
 GTGAAGCAGCTGAGAGACGCTTTTGTGCTGGGAGCGGCCCTCTTTGACAGAGACACA
 GATGTGCACACTGTGGCTTCCCTGTTAAAGCTCTACCTCCGAGACCTCCAGAGCCCGTG
 GTTCCCTGGAGCCAGTACGAAGGGTTCCTGCTCTGTGGCAGCTCACGAATGCGGATGAG
 GCAAAGGCTCAGCAGGAGTTGATGAAGCAGCTCTCCATCCTTCCGTGACAACATAGT
 CTCTGAGCTACATCTGCAGGTTCTACATGAAATACAGCTGAACCTGTGCTGTTAAACAAG
 ATGAGTGTGGACAACCTGGCTACTGTGATTGGTGTGAATCTCATCAGGTGCAAGGTGCGAA
 GACCTGCCGTGATCATGAGAGGGACTCCTCAGATCCAAAGAGTGTGACTATGATGATC
 AGAGACCATGAAGTCTCTTCCCAAGTCCAAGGATATACCCCTGTACCCCTGCCAG
 AAAAAAGACCCCAAGAAAGCTCCAGTGGCCGAAGCTCTGTAGGTGGGATGCCACTGAA
 GACCTCCGAATTTCTAGGACAGACAGCTTCAGTAGCATGACAAGCGACTCTGATACAACC
 AGCCCCACCGGACAGCAGCCGAGCGATGCGTTTTCCGGAGGACAGCAGCAAAGTACCCAGG
 GAAAAGCCAGGAGACTGGAATAATGCAATCTCGTAAAAGGACTCAAACACTCCCTAACCGG
 AAATGTTTTCTTGACATCAGCTTTTTCAGGGTGCCAAACAGCAGCAAAATGGAGATCTTTAAA
 AATGAATTCTGGTCGCTTCTCAGAGGCTAAGGCAGGGGAAGGGCACAGGAGAACGATG
 TCTCAAGACTTGCGCCAACTTTCTGACTCCCAACGGACTTCCACCTACGATAACGTCCCT
 TCCCTGCCAGGGTCCCCTGGGAGGAAGCCAGTGCCTCTTCCCAAGCCTGTGACTCC
 AAGGGAGATACTTGGCAGTCCAACTCTGAAACTGGGCTGGAAAAAAGAACTCTGGA
 GAAGAGGAAATGATTCTTTGCAGAGGACGGTCCAAGAGCTACGAAAGGAAATAGAAACA
 CAGAAGCAATGTATGAGGAACAGATTAACCTTGGAGAGGAAATATGACGTTTGG
 GCTAAAGTGGTGGGCTCAATGAAGAACTGGAGAAGGAAAAGAAGTCTGCAGCCCTA
 GAGATCAGCCTCCGCAACATGGAGCGCTCCCGGAGGATGTTGAGAAGAGGAACAAGGCC
 TTGGAAGAAGAAGTCAAGGAATTTGTCAAATCCATGAAGGAACCAAGACCGAGGCTTAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_014882 unedited
 GTTCCGATTTGTATACGACTCACTATAGGCGGCCGCGATTGGCAGCAGGGCCAACCTTT
 CGGTTTGCAGAAATGACGGGGCCCGCCGGTGCCGGACTGCCTGTGCACGGGGCCACCGA
 CTGCAGCCTGGGTTTTATTCTTGGCCTGGCCCTGACCGGAGCTGGCCCCTCGGCTGCTT
 CTCTGGCTCGGGGGGACTTTCTCTGGCTCAGATCCGGACCCCTGAACTGGACCTGGTTG
 TCGTCCCCCGCTTCTCAGCCCCCTCTGGGTTCTCTGTCTCTCCGCCACTCTTTGC
 TCACTGCCCATGTCCCTCGGTCAAGTGGCCTGTCTGTTCTCTATAGCTCGGTCAAG
 GAGTGTGATGACTGGCGAGCAGATGGCTGCCTTCCATCCATCGTCCACCCCAACCCGCT
 GGAGAGGCCCATCAAGATGGGCTGGCTGAAGAAGCAGAGGTCCATCGTGAAGAACTGGCA
 GCAGAGGTACTTTGTGCTGAGGGCGCAGCAGCTCTACTACTACAAGGATGAAGAGGACAC
 GAAGCCCCAGGGTGCATGTATCTACCAGGATGTACAATCAAGGAGATCGCCACAACCC
 AGAAGAAGCTGGGAAGTTGTCTTTGAAATCATTCCAGCCTCATGGGACCAGAATCGCAT
 GGGACAGGACTCCTATGTCTCATGGCCAGCTCTCNAGCGGAGATGGAGGAGTGGTTAA
 ATTCTCAGGAGAGTTGCTGGCACACCTGTGGAGCAGTGTGGCCAGCGCTTGGATGA
 GACTGTGGCCTATGAACAGAAATTCGGCCCCATCTGGTGCCCATCCTGGTGGAGAAATG
 TGCAGAGTTTCCTGNAGCACGGCCGGATGAAAAGGCATCTTTCGTCTGCTGGGCAGN
 ACAACCTGNTGAAGCAGCTGAC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014882 unedited GTACCGCGGCACGACTTCTATGTCGAGTTTTTTTTTTTTTTTTTTTTGCTTTATTTGAATAT AATTTTCTCATCAATTTTGCTTGCATAAATACAGTTTGTGCTTGTCTGGTTTGTAGTCTA ATAGTAAGTTGGAGAAGTCTGGAGAATGGGCATCCTGGTGGGTGGCAGAATGGGGTTC TCGCTTCAGCAGATGCAGCCCCCAAACACAGCACTCCATGGATGAGGACTCAAAGATG AATGTCATTTTCTGCCCTGTGTCTCATAGATGCCCTGAGGCTGTCTGACAAGGTGAGCT GTTCCACACAAAAACAAGAATTAATCACACCTTATTCCAGCCTGAGTTGGGGCCAGTC TATTGCCTGGGTCTGAGATGTGCTGCCTCAAATGTCTTCACTGGACGTGGTCATGCCTG AGACCAGAATGGAATAGAACAATCCATTTGAATACAGCGATGGATGGTCAGAGATGTCCA CACACATCTCTGCTCACCTCACCTTCCCTGCAAACCTCATTCTATTATTTATGGGGAAAT TTGATGTTTCCCTCAAATGTCCTTCCCTCTCAGAGAATAATTTTGTTCCTCCGTCATCA GATAGCACTGAGAAAGGCCAGAGTTGGGCTCTCTGGAGCTGTCCCTGCAGTACTCCT GGGACCTTAAGCCTCGGTCTTGGGTTCCCTTCATGAATTTGACAAATTCCTTGACTTTCT CTTTCAAGGCCTTAGTCCTTCTCAACATCCTNCCGGGAGCGCTCATGTTGCAGGAGCT GATCTCTAGGGCTGGAGACTTCTNCTTTCCTTCTCAGTTTTATTGAGCCTCACACCTT AGCCCAAACGTATTATTTTCCCTTCAAGTTTTAAATCGGTCCCTAAACATTTGCCTCCG AGTTTCTATTCTTCCGAAGCTCTTGGACCGNCCTTGCCAAGAACCAATCCCCTNTCCA CAATTTTTTTTTTTCAGCCCCGTTTTAAAGTTGGACTGCCAAAGTACTCCTTGAAGTC
Restriction Sites:	NotI-NotI
ACCN:	NM_014882
Insert Size:	2890 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).
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_014882.2</u> , <u>NP_055697.1</u>
RefSeq Size:	2957 bp
RefSeq ORF:	1917 bp
Locus ID:	9938
UniProt ID:	<u>P42331</u>
Cytogenetics:	2p13.3
Domains:	RhoGAP, PH

Gene Summary:

ARHGAPs, such as ARHGAP25, encode negative regulators of Rho GTPases (see ARHA; MIM 165390), which are implicated in actin remodeling, cell polarity, and cell migration (Katoh and Katoh, 2004 [PubMed 15254788]).[supplied by OMIM, Mar 2008]

Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region, and uses an alternate in-frame splice site in the central coding region, compared to variant 1. The resulting isoform (b) is shorter and has a distinct N-terminus, compared to isoform a.