

Product datasheet for SC114870

ARHGAP32 (NM_014715) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP32 (NM_014715) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARHGAP32
Synonyms:	GC-GAP; GRIT; p200RhoGAP; p250GAP; PX-RICS; RICS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_014715 edited

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ATGAAGTCTCGTCCAACAAAACAGAAGCTGAAGCAGCGGGGAATCTTGAAAGAGAGGGTG
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GAAGAACCTCACTCAGTCAATCGTCCACCCCTAAACCAGAGAGGAGTCATAGCCTC
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CACTCCCTGCCTCAGCACCAGCAGGAGTCTTTGGAGGGGCGGCATGGGACGTATGTG
CCCCCTGGCTTTCCCATCCACAGAGCAGGACCTATGCTACAGCGTTGGGTCAAGGGGCC
TTCTGCCCGCAGAGTTGTCTTGCAGCATCTGAAACACAGATCCATGCAGAATGA

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_014715 unedited
TCAAATTTTGTAAACGACTCACTATTAGGGCGGCCGGAATTCGCACGAGGGTTCTTAC
GAACATTCATGAAGTCTCGTCCAACAAAACAGAAGCTGAAGCAGCGGGGAATCTTGAAAG
AGAGGGTGTGTTGGTGTGACCTGGGGGAACACCTTCTAAATCTGGTTTTGAAGTGCCGC
AGGTTCTTCAAAGCTGCACAGCATTATTGAGAGATATGGCATCGTGGATGGAATCTATC
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CTGATGCAGTTTCAGCAGCAACAGATGAAGAAAGGCTGATAAAATCCACGATGTCATCC
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TAGCTGACTATTGTTCCATCACAATATGCATGCAAAAAATCTAGNCATTGTTTGGGCTC
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CCTCCTGGTATCCTCTCCATCCCAACTGCTGACATTGAAGAGGCCAGCACGAACACA
GCTCAGGTCACTTCTCCATTGTGACGGAATAATATTTCGAGTAAGAGAAGGACTGCTG
CACTCAGGGGAATTNCTACATNANTGAGNTCCCACTGNAGAAAGAGCCTCAAATA

**3' Read Nucleotide
Sequence:**

>OriGene 3' read for NM_014715 unedited
AGCTGTGGACCCGCGCCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTAAATGA
AAGAAGTTGATAATTTAGGAAAACCAATGGTATGACATGTTTTACTAGAATTACAATTCA
CCAAATCTTATTGAGGGGTGGGGTAAGAAGAAAACCTGAAGGCAGGCAATGCATTAAGG
CATCAATAGAGATTTCTGGTGCTAATAAAGTTCAGTGAATAAGAACTTTACTTTCTTC
CACCTAAAGAAGTTCTTAAGTACTAACTTTTAAAGTCCATTCTGTCATGATATGAGC
CTGTTCACTGAACCGTGAGGAACAAGGATGAAAAATAAGAATAGAAAGAGTATGGTTCAG
CCTGAGTCTAAGTGGTCTGGTGTGTTATGATGACTCTACCAATGTTTAAATTTAAAGTCT
TAATTTCTTATTTTAAATTATAATGTTGCCAAGTGTCTGACTGACCTGAAGGATCAGGG
ATTTTTCCAGACTCTAACTGAACACAAGATCCTTCTCAGACGGGGAGAATGAAGTGACA
ACAGTGTGTCGATCTGCGCAAGTTGTGCAGCTACTGAAGGAGAAGCAGGAACACAACAGG
GAATGCAGACGCCTACCAGGAAATCGATGTGAAGTGTCTCAATTATGCAGCAAACTACTA
AGAAGAAAGGACAATGCTGAATTCAAATTCAGTTAAAGGCAGTCTCAGGCTCTTTCAAG
CTAGCCCTTAGATGGCAGTGTGCTGAGACAGGTTTCTCTACTGGGTTTCAGCACGGGG
CTTTACATCCTTCAGATCTTTTCTAAGACANAATGACAAGTCTATGATGGAANAGGGGTA
TGAGCACGGAGGGGAAAAAGAGCTGAATTGTTACTTTATTACATTTTAAAGTGGCAGGG
TTTTATGNATTTTTTTTACCTTTTGGTATGAAAAAAAACAGCCCTGCCACG

Restriction Sites:

NotI-NotI

ACCN:

NM_014715

Insert Size:

7070 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:	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_014715.2</u> , <u>NP_055530.2</u>
RefSeq Size:	6480 bp
RefSeq ORF:	5217 bp
Locus ID:	9743
UniProt ID:	<u>A7KAX9</u>
Cytogenetics:	11q24.3
Protein Families:	Druggable Genome
Gene Summary:	RICS is a neuron-associated GTPase-activating protein that may regulate dendritic spine morphology and strength by modulating Rho GTPase (see RHOA; MIM 165390) activity (Okabe et al., 2003 [PubMed 12531901]).[supplied by OMIM, Mar 2008] Transcript Variant: This variant (2) lacks multiple exons in the 5' UTR and 5' coding region and has a unique exon for its 5' UTR, compared to variant 1. These differences cause translation initiation from a downstream in-frame start codon. The encoded protein (isoform 2) has a shorter N-terminus which lacks phox homology and src homology 3 domains, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The extent of this RefSeq transcript is supported by transcript alignments.