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Product datasheet for MC224898

Arhgap32 (NM_177379) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap32 (NM_177379) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arhgap32
Synonyms:	3426406O18Rik; Gc-gap; Grit; mKIAA0712; p200Rhogap; p250Gap; Px-rics; Rics
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC224898 representing NM_177379
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGTCTCGCCCAACAAAACAGAAGCTAAAGCAGCGGGGCATCTTGAAAGAGAGAGTATTCGGTTGTG
ACTTGGGGGAGCACCTCCTCAATTCTGGGTTTGAAGTGCCCCAGGTTCTTCAGAGCTGCACAGCGTTCAT
CGAGAGGTATGGCATTGTGGATGGGATATATCGTCTCTCTGGCGTTGCCTCCAATATCCAGAGACTTCGT
CATGAATTTGATTCTGAGCATGTCCCCGACCTGACAAAAGAACCTTATGTTCAAGACATCCATTCTGTGG
GCTCCCTCTGTAAGCTGTACTTCCGAGAACTCCCAAACCCTCTGCTCACCTACCAGCTATACGAGAAGTT
CTCTGATGCTGTTTCAGCAGCAACGGATGAAGAACGGTTGATAAAAATCCATGATGTCATCCAGCAACTC
CCCCCACCACACTATAGAACCCTGGAGTTCCTGATGAGACACCTGTCTCTTCTAGCAGACTATTGCTCCA
TCACAAATATGCATGCGAAAAACCTTGCCATTGTGTGGGCACCAAACCTGCTGAGATCAAAGCAGATAGA
GTCAGCTTGCTTCAGTGGGACAGCAGCTTTCATGGAAGTGAGGATTCAGTCTGTGGTTGTTGAATTCATT
CTCAATCATGTGGATGTGCTCTTCAGTGGCAAAATCAGCGCTGTCATGCAGGAAGGAGCAGCTTCTCTGT
CAAGGCCCAAGTCCCTGCTGGTCTCGTCTCCATCTACCAAGCTGCTGACATTGGAGGAAGCCCAGGCAAG
GACGCAGGCTCAGGTCAGTTCTCCTATTGTGACGGAAAATAAGTACATCGAAGTCGGAGAAGGGCCTGCT
GCGCTGCAAGGGAAGTTTCACACCGTCATTGAGTTCCCACTTGAAAGAAAGAGGCCTCAGAATAAGATGA
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GTTGCAGCGTAATGAAAGTGAGCCCTCAGAAATGAAAGCCATGGCTTTGAAAGGTGGCAGGGCAGAAGGA
ACCCTCCGCTCAGCTAAAAGTGAAGAGTCCCTTACTTCTCTCCATGCAGTTGACGGTGATTCCAAGTTGT
TCCGACCTAGAAGACCCAGATCCAGCAGCGATGCGCTCTCTGCCTCTTTCAATGGCGACGTGCTGGGGAA
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TGGACTTTGATCCCATGTCATTTCAATGTAGTCCTCCAAAAGCTGAGTCAGAGTGTCTGGAGAGTGGTGC
TTCCTTTCTGGATTCATTAGGTTATACCAGGGATAAACTGAGTCCCAGTAAGAAGGATGCAGAAGCAGGT

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GGTAGCCAGTCACAGACTCCAGGAAGCACCGCAAGTTCCGAACCTGTATCTCCAGTCCAGGAGAAACTGA
GTCCGTTTTTCACCCTGGACTTGAGCCCCACTGACGACAAGTCTTCTAAGCCATCTTCATTTACAGAAAA
GGTTGTTTATGCTTTCTCTCCGAAGATTGGGCGGAAGCTAAGCAAATCTCCTTCCATGAACATATCTGAG
CCTATTTCAGTGACTCTCCCACCTCGGGTATCAGAAGTCATCGGTACGGTCTCCAATACTGTAGCTCAGA
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CAGTTCAGTCTCTCTTATCCCACCACCACCGCCTCCGAAAAATGTCGCCCGAATGTTGGCACTAGCGTTA
GCTGAGTCTGCACAGCAAGCCTCAAGTCAGACACTGAAGAGACCAGGGGCTTCCCAGGCTGGGTGCACTA
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TAAAACCTGTTTCCAAACGGACCGGCCAGCAGAGCAGTTCCACCCGCAGATCAATGGACTCGGAAACTGT
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GAGATCAGCCCCTCTCTTACCTTGGTACCAGTGTGGATAAACCCCACCATTCCTCAGAACTTACAGACAA
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CTTTGTCCCTTCGTCAGCCTCAGTGGATGATGTGATGCCCGTGCCACTCCCCGTCTCACAGCCTAAGCAT
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ACTGTTTGCATTTCAATATGACTCCAAACTGCCAGTTTCGCCCCCAGAGTGTTCCTCCACACCACAATAA
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CAGACTATCACGTAACTCAGCTTCAGCCTTACTTTGAGAATGGACGGGTCCATTATCGCTATAGTCCGTA
CTCCAGCTCCTCCAGCTCCTATTACAGTCCTGAGGGGGCCTTGTGTGATGTCGATGCCTATGGCACAGTC
CAGCTGCGGCCCCTCCACCGCCTGTCCAGTCGGGACTTTGCTTTCTACAATCCAAGGCTACAAGGAAAGA
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TGTCGCAGTATGACAACATGACACCAGCTGTGCAAGAAGACTTGGGAGGGATCTATGTCATCCATCTGCG
CAGCAAATCAGATCCTGGGAAAACTGGACTTCTCTCTGTGGCAGAGGGGAAAGAGGGACGGCACCCAGCC
AAGGCTGTCAGTCCTGAGGGGGACGAGCGTTTCTACAGGAAGCACCCAGAGTCCGAATTTGACAGAGCCC
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GAACAGAAAGCTTCACGATATGGGTTGTAGCCTCCCAGAGCACAGGGCGCATCAGGAAGCAAGCCATAGG
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TCTAACCCTGAACCACAAGGAAGTGAGGCTTCCCAAAGATCTGGACAGACCTCGAGCCAGGCAGCCACCT
GGCCCTGAGAAACACTCCAGAGACTGCTACAAGGAGGAGGAACACTTCTCTCAGTCTATGGTCCCACCCC
CCAAACCAGAGAGGAGTCACAGCCTAAAACTTCACCATACCCAGAACCTGGAGAGGGACCCCAGCGTGCT
ATACCAGTATCAGACACACAGCAAGCGCCAGAGCAGCATGACTGTTGTGTCCCAGTATGATAACCTGGAG
GATTACCACTCCCTGCCCCAGCACCAGCGAGGAGGCTTTGGAGGGGCGGGCATGGGGGCCTATGTGCCCT

CTGGCTTTGTCCATCCACAGAGCAGGACATACGCCACAGCATTGGGTCAGGGGGCCTTCCTGCCCACAGA
GTTGTCCTTGCCACATCCCGACACGCAGATCCATGCAGAATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_177379
Insert Size:	5223 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_177379.4, NP_796353.3
RefSeq Size:	9969 bp
RefSeq ORF:	5223 bp
Locus ID:	330914
UniProt ID:	Q811P8
Cytogenetics:	9 A4

Gene Summary:

GTPase-activating protein (GAP) promoting GTP hydrolysis on RHOA, CDC42 and RAC1 small GTPases. May be involved in the differentiation of neuronal cells during the formation of neurite extensions. Involved in NMDA receptor activity-dependent actin reorganization in dendritic spines. May mediate cross-talks between Ras- and Rho-regulated signaling pathways in cell growth regulation. Isoform 2 has higher GAP activity.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and uses a downstream translational start codon, compared to variant 1. The encoded isoform (2, also known as RICS) is shorter at the N-terminus, compared to isoform 1.
Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.