

Product datasheet for SC304925

ARHGAP22 (NM_021226) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: ARHGAP22 (NM_021226) Human Untagged Clone

Tag: Tag Free
Symbol: ARHGAP22

Synonyms: RhoGAP2; RhoGap22

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn





Fully Sequenced ORF:

>NCBI ORF sequence for NM_021226, the custom clone sequence may differ by one or more nucleotides

ATGCTGAGCCCAAAGATCAGGCAGGCCAGGAGGGCCCGCTCCAAAAGCCTAGTGATGGGGGAGCAGAGCC GAGGAGCATCATGAAGAACTGGCAGCAGCGCTGGTTTGTGCTGCGTGGGGATCAGCTTTTCTACTACAAG GACAAAGATGAGATCAAGCCCCAGGGATTTATTTCTCTACAAGGGACACAGGTGACTGAACTTCCTCCTG GCCCCGAGGACCCAGGGAAGCACCTCTTTGAGATCAGCCCAGGTGGTGCCGGGGAGCCGGGAGAAGGTGCC GGCCAACCCCGAGGCGCTCCTGCTCATGGCCAGCTCCCAGCGTGACATGGAGGACTGGGTGCAGGCCATC CGCCGAGTCATCTGGGCCCGCTGGGCGGAGGGATCTTTGGGCAGCGCCTAGAGGAAACAGTCCACCACG AGCGGAAGTATGGCCCCCGCCTGCCGCCCCTGCTGGTGGAGCAGTGTGTGGACTTCATCCGGGAGCGCGG GACTGTGGGGAGAAGCCACTGTTTGACAGCACAACAGACGTGCACACGGTGGCCTCCCTGCTGAAGCTGT ACCTGCGGGAGCTCCCCGAGCCCGTGGTCCCCTTCGCCAGGTACGAGGACTTCCTCAGCTGCGCCCAGCT GCTCACCAAGGACGAGGGGAGGGCACTCTGGAGTTGGCTAAACAAGTGAGCAACCTTCCTCAGGCAAAT TACAACCTGCTCAGATACATCTGCAAGTTTCTGGATGAAGTTCAGGCATACTCAAATGTCAACAAGATGA GTGTCCAGAATCTGGCAACCGTTTTTGGACCTAACATTCTGCGGCCACAGGTAGAGGACCCAGTAACCAT GCACCGGTCCCGGAAGGGCCCACCTCCCCGCGCGGGGGCCTGCAATGCGCAGTGGGGTGGGGCTCCGAGG AGGTCACCAGGGACAGCCAAGGAGAGCCCGGCCGGCCCGGCCTGCCCGCGCACAGGACCTCTTCCCTGGA CGGGGCGCCGTGGCGGTGCTCTCCAGAACAGCCCCCACGGGGCCGGGGAGCCGGTGCAGCCCTGGGAAG AAGGTGCAGACCCTGCCCAGTTGGAAGTCCTCCTTCCGGCAGCCGAGGTCCCTATCGGGAAGCCCGAAGG GGGGCGGCTCATCCCTGGAGGTGCCCATCATCTCCTCCGGCGGGAACTGGCTTATGAACGGGCTGTCCTC CCTGCGCGGACACCGCCGGGCCTCGTCGGGAGACCCGGCTCAAGGACTCGGGCTCCGTGCAGAGACTCTCC ACCTACGACAATGTGCCCGCGCCGGGCCTGGTCCCCGGCATACCCAGCGTGGCCAGTATGGCGTGGTCCG GTCTGCCCGCAGTTCCCTGCACACCGACTGGGCCCTGGAGCCCTCCCCGCTCCCCAGCAGCAGCAGGAC AGCCGGACAGCCCCACCCGGGAACACGCGCGCCGCTCCGAGGCCTTACAGGGGCTGGTCACTGAGCTCAG GGCCGAGCTGTGCCGCCAGCGGACTGAGTACGAGAGGAGTGTGAAAAGAATCGAAGAAGGGAGTGCTGAC CTGAGAAAACGAATGTCCCGGTTAGAAGAAGAACTGGACCAGGAAAAGAAAAAATACATCATGCTGGAAA TAAAGCTGCGGAACTCTGAACGGGCGCGGGAGGATGCGGAGAGGAGCAGCTGTTGCAGAGGGAAAT GGAGGAGTTTTTTTCGACCCTAGGAAGCTTGACTGTTGGGGCAAAAGGTGCCAGGGCCCCAAAGTAA

Restriction Sites: Please inquire **ACCN:** NM 021226



OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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 021226.2</u>, <u>NP 067049.2</u>

 RefSeq Size:
 2775 bp

 RefSeq ORF:
 2097 bp

 Locus ID:
 58504

 UniProt ID:
 Q7Z5H3

Cytogenetics: 10q11.22-q11.23

Gene Summary:

This gene encodes a member of the GTPase activating protein family which activates a GTPase belonging to the RAS superfamily of small GTP-binding proteins. The encoded protein is insulin-responsive, is dependent on the kinase Akt and requires the Akt-dependent 14-3-3 binding protein which binds sequentially to two serine residues. The result of these interactions is regulation of cell motility. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

Transcript Variant: This variant (3) uses an alternate in-frame splice site in the 5' coding region compared to variant 1. The resulting protein (isoform 3) is shorter compared with isoform 1.