

Product datasheet for **SC310002**

ARHGAP11A (NM_014783) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP11A (NM_014783) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARHGAP11A
Synonyms:	GAP (1-12)
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014783, the custom clone sequence may differ by one or more nucleotides

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ATGTGGGATCAGAGGCTGGTGAGGTTGGCCCTGTTGCAGCATCTGCGGGCCTTCTATGGT
ATTAAGGTGAAGGGTGCCGTGGGCAGTGCGATCGCAGGAGACATGAAACAGCAGCCACG
GAAATAGGGGTTAAAATATTTGGAGTACCTTTTAAATGCACTGCCCCATTCTGCTGTACCA
GAATATGGACACATTCCAAGCTTTCTTGTGCGATGCTTGACACATCTTTAGAAGACCATATT
CATACCGAAGGGCTTTTTCGGAAATCAGGATCTGTGATTGCGCTAAAAGCACTAAAGAAT
AAAGTGGATCATGGTGAAGGTTGCCTATCTTCTGCACCTCCTTGTGATATTGCGGGACTT
CTTAAGCAGTTTTTTAGGGAAGTCCAGAGCCCATCTCCAGCTGATTTGCATGAAGCA
CTTTTGAAAGCTCAACAGTTAGGCACAGAGGAAAAGAATAAAGCTACACTGTTGCTCTCC
TGCTTCTGGCTGACCACACAGTTCATGTATTAAGATACTTCTTTAACTTTCTCAGGAAT
GTTTCTCTTAGATCCAGTGAGAATAAGATGGACAGCAGCAATCTTGCAAGTAATATTTGCA
CCGAATCTTCTCAGACAAGTGAAGGACATGAAAAGATGTCTTCTAACACAGAAAAGAAG
CTACGATTACAGGCTGCAGTAGTACAGACTCTTATCGATTATGCATCAGATATTGGGCGT
GTACCAGATTTTATCCTGGAAGAGATACCAGCCATGTTGGGTATTGATGGTCTCTGTGCT
ACTCCATCACTGGAAGGCTTTGAAGAAGGTGAATATGAACTCCTGGTGAATATAAGAGA
AAGAGAAGACAAAGTGTAGGAGATTTTGTAGTGGAGCACTAAATAAATTTAAACCTAAC
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CTAGGGAAAAATGGCAGAGAAGTAAATGGATGTTCTGGTGTCAATAGATATGAAAGTGTT
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GTGGAAAATCTTGAGGTAGAAAACCTTTTGGAGCCTGATATTATGGTAGAAAAGTCACCT
GCTACTTCATGTGAACCTACCCCTTCCAATTTAAACAATAAGCATAATAGCAACATAACA

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AGTAGCCCTCTTAGCGGGGATGAAAATAACATGACCAAAGAGACTTTGGTGAAAGTTCAA
AAAGCGTTTTCTGAATCTGGAAGTAATCTTCACGCATTGATGAATCAGAGGCAGTCATCA
GTAACATATGTGGGAAAGTAAATTAACCTGAACCATCTTATTTAGAAGATAGCCAGAG
GAAATCTATTTGAACTAATGATTTGACTATAGTAGAATCAAAGGAGAAATATGAACAC
CACACTGGTAAAGGTGAAAAATGTTTTTCAGAGAGGGACTTTTCAACCCCTTCAAACCTCAA
ACATTTAATAGAGAAACAACTATAAAATGTTATTCAACTCAGATGAAGATGGAACATGAA
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GAAGAAATAAAGAAACAGCAGTCCCAAAGGATAAACTAAATAATAAATTTAAAGAGAAT
GAGAATATGATGGAAGGTAACCTACCGAAGTGTGCAGCACATAGCAAGGACGAGGCTAGA
TCCTCTTCTCACAGCAGAGTACATGTGTTGTAACAACTTGTCAAAACCTAGGCCTATG
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TCCGTCAGAAGAATTAATCTTTGTTGGAGTATAGCAGACAACCTACAGGGCATAAGTTG
GCGAGTCTTGGTGATACAGCTTCTCCTTTGGTCAAATCAGTGAGCTGTGACGGTGCTCTT
TCCTCTTGATAGAAAGTGCATCAAAGATTCTCTGTTTCATGTATCAAATCAGTCTCT
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ATGGAGTTACCTCGAAATCTTTCTTAAAGATGAGGAAGCACCCAGATTCAGTGAATGCT
TCTCTTAGGTCTACTACAGTTTATAACAGAAGATCTTATCTGATGGCCAAGTTAAGGTT
CCCTTGGATGATCTGACTAATCATGATATAGTAAACAGTGTGTAATAACAACATGGGC
ATTTCTTCTGGGATAAATAACAGGGTCCTTAGGAGACCATCAGAAAGAGGAAGGGCTGG
TACAAAGGTTCTCCAAAACATCTATCGGAAAACTCAATTACTACCAACAAGTAAACCT
GTAGATTGTAA
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Restriction Sites:

Please inquire

ACCN:

NM_014783

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. [More info](#)

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: NM_014783.2, NP_055598.1

RefSeq Size: 5616 bp

RefSeq ORF: 3072 bp

Locus ID: 9824

UniProt ID: Q6P4F7

Cytogenetics: 15q13.3

Domains: RhoGAP

Gene Summary: This gene encodes a member of the Rho GTPase activating protein family. In response to DNA damage, the encoded protein interacts with the p53 tumor suppressor protein and stimulates its tetramerization, which results in cell-cycle arrest and apoptosis. A chromosomal deletion that includes this gene is one cause of Prader-Willi syndrome, and an intronic variant of this gene may be associated with sleep duration in children. This gene is highly expressed in colon cancers and in a human basal-like breast cancer cell line. This gene also produces a ARHGAP11A-SCG5 readthrough transcript and ARHGAP11A-SCG5 protein. [provided by RefSeq, Feb 2019]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest 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.