

Product datasheet for **SC307955**

ARHGAP11A (NM_199357) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP11A (NM_199357) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARHGAP11A
Synonyms:	GAP (1-12)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC307955 representing NM_199357.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTA
CCGAGGAGATCTGCCGCCGCGATCGCCGGCGCGCC
ATGTGGGATCAGAGGCTGGTGAAGTTGGCCCTGTTGCAGCATCTGCGGGCCTTCTATGGTATTAAGGTG
AAGGGTGTCCGTGGCAGTGCATCGCAGGAGACATGAAACAGCAGCCACGAAATAGGGGTAAAATA
TTTGGAGTACCTTTTAATGCACTGCCCATTTCTGCTGTACCAGAATATGGACACATTCCAAGCTTTCTT
GTCGATGCTTGACATCTTTAGAAGACCATATTCATACCGAAGGGCTTTTCGGAATCAGGATCTGTG
ATTCGCCTAAAGCACTAAAGAATAAAGTGGATCATGGTGAAGGTTGCCTATCTTCTGCACCTCCTGT
GATATTGCGGACTTCTTAAGCAGTTTTTTAGGGAAGTCCAGAGCCATTCTCCAGCTGATTTGCAT
GAAGCACTTTTGAAGCTCAACAGTTAGGCACAGAGGAAAGAATAAAGTACACTGTTGCTCTCCTGT
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TCCAGTGAGAATAAGATGGACAGCAGCAATCTTGCAGTAATATTTGCACCGAATCTTCTCAGACAAGT
GAAGGACATGAAAAGATGTCTTCTAACACAGAAAAGAAGCTACGATTACAGGCTGCAGTAGTACAGACT
CTTATCGATTATGCATCAGATATTGGGCGTGTACCAGATTTATCCTGGAAGATACCAGCCATGTTG
GGTATTGATGGTCTCTGTGCTACTCCATCACTGGAAGGCTTTGAAGAAGTGAATATGAACTCCTGGT
GAATATAAGAGAAAGAGAAGACAAAGTGTAGGAGATTTTGTAGTGGAGCACTAAATAAATTTAAACCT
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ACACCAATGCTAAGCGTACATTGCCAGTAGATTCTTCTCATGGTTTCTCAAGTAAGAAAAGGAAGTCC
ATCAAGCACAATTTTAACTTTGAGCTGTTGCCAAGTAATCTCTCAATAGCAGTTCTACACCGGTATCA
GTTACATCGATACAAGCTCAGAAGGGTCATCTCAGAGTTCATCTCTCCTGTACTCATTGGTGGAAC
CATTTGATCACTGCAGGTGTGCCAAGGCGAAGTAAAAGAATTGCAGGCAAAAAGTTTGAGAGTGGAA
TCAGGAAAAGCAGGCTGCTTTTCTCTAAATCAGCCATAAAGAAAAGGTTTGAAGATCTCTGCGTTTG
AAATTCATCTAGGGAATAATGGCAGAGAAGTAAATGGATGTTCTGGTGTCAATAGATATGAAAGTGT
GGTTGGCGACTTGCAATCAACAAAGTTTAAAAATCGAATTGAATCTGTAAAAACAGGTTTGCTTTT
AGCCAGATGTTGATGAAAAGTTACCAAGAAAGGTACATTTACATACTACTGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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Restriction Sites: AscI-MluI

ACCN: NM_199357

Insert Size: 1506 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).

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_199357.1](#)

RefSeq Size: 2486 bp

RefSeq ORF: 1506 bp

Locus ID: 9824

UniProt ID: [Q6P4F7](#)

Cytogenetics: 15q13.3

MW: 55.5 kDa

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 (2) lacks a coding exon and its 3' terminal exon extends past a splice site used in variant 1, resulting in a distinct 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (2) has a distinct C-terminus and is shorter than isoform 1.