

## Product datasheet for RC201876

### ARHGAP11A (NM\_014783) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP11A (NM_014783) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARHGAP11A
Synonyms:	GAP (1-12)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201876 representing NM_014783 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGCCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC  
GCC

ATGTGGGATCAGAGGCTGGTGAGGTTGGCCCTGTTGCAGCATCTGCGGGCCTTCTATGGTATTAAGGTGA  
AGGGTGTCCGTGGGCAGTGCATCGCAGGAGACATGAAACAGCAGCCACGGAAATAGGGGGTAAATATT  
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TTACCAAAGAAAGGTTTCAGAAAAGATCAGTAAGTCTGAGGAAACCTTACTAACTCCAGAGCGACTAGTTG  
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**Protein Sequence:**

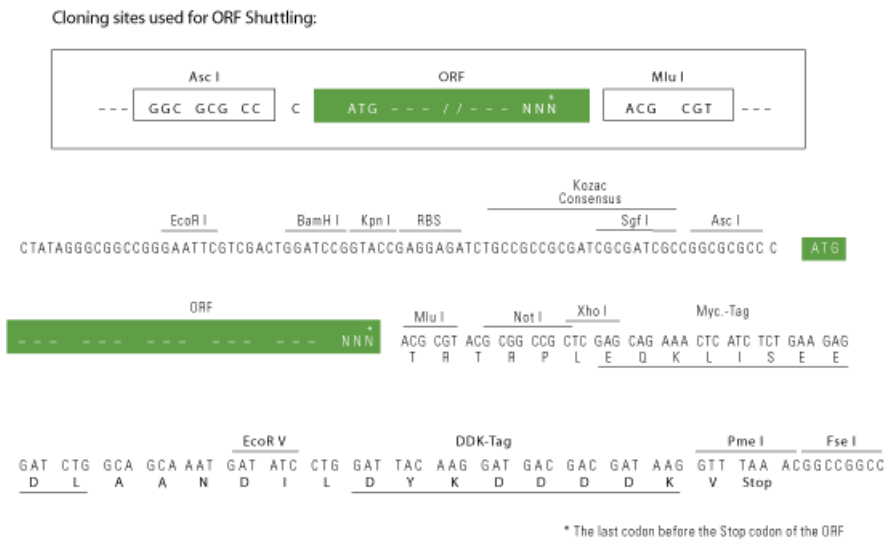
>RC201876 representing NM\_014783  
 Red=Cloning site Green=Tags(s)

MWDQRLVRLALLQHLRAFYGKIKVGVGRQCRRRHETAATEIGGKIFGVPFNALPHSAVPEYGHIPSFLV  
 DACTSLEDHIHTEGLFRKSGSVIRLKALKNKVDHGEGLSSAPPCDIAGLLKQFFRELPEPILPADLHEA  
 LLKAQQLGTEEKNAATLLLSCLLADHTVHVLRYFFNFRNVSLRSENKMDSSNLAVIFAPNLLQTSEGH  
 EKMSNTEKKLRLQAQVQTLIDYASDIGRVPDFILEKIPAMLGIDGLCATPSLEGFEEGEYETPGEYKR  
 KRRQSVGDFVSGALNFKPNRTPSITPQEERIAQLSESPVILTPNAKRTLTPVDSSHGFSSKKRKSIAKHN  
 NFELLPSNLFNSSSTPVSVIDTSSEGSQSSLSPLVIGGNHLITAGVPRRSKRIAGKKVCRVESGKAGC  
 FSPKISHKEKVRSLRLKFNLGKNGREVNGCSGVNRYESVWRLANQQSLKNRIESVKTGLLFSPDVDEK  
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 ATSCLETPSNLNNKHNSNITSSPLSGDENMTKETLVKQKAFSESGSNLHALMNQRQSSVTNVGKVKLT  
 EPSYLEDSPENLFFETNDLTIVESKEKEYEHHTGKGEKCFSERDFSPLQTQTFNRETTIKCYSTQMKMEHE  
 KDIHNSMPKDYLSKQEFSSDEEIKKQQSPKDKLNNKLKENENMMEGNLPKCAHSHKDEARSSFSQQSTCV  
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 SVRRINSLLAYSROPTGHLASLGDASPLVKSVCSDGALSSCIESASKDSSVSCIKSGPKEQKSMSCCE  
 SNIGAISSMELPSKFLKMRKHPDSVNASLRSTTVYKQKILSDGQVKVPLDDL TNHDIIVKPVVNNMGM  
 ISSGINNRVLRPSEGRAWYKSPKHPIGKTQLLPTSKPVDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

AscI-MluI

**Cloning Scheme:**


**ACCN:** NM\_014783

**ORF Size:** 3069 bp

**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](mailto: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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_014783.6](#)

**RefSeq Size:** 5616 bp

**RefSeq ORF:** 3072 bp

**Locus ID:** 9824

**UniProt ID:** [Q6P4F7](#)

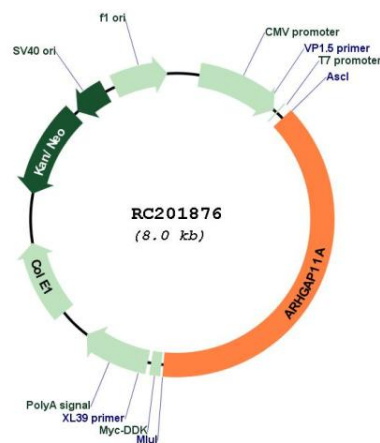
**Cytogenetics:** 15q13.3

**Domains:** RhoGAP

**MW:** 113.7 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]

### Product images:



Circular map for RC201876