

Product datasheet for **RC210478**

ARHGAP11B (NM_001039841) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP11B (NM_001039841) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARHGAP11B
Synonyms:	B'-T; FAM7B1; GAP (1-8)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210478 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGCCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
GCC

ATGTGGGATCAGAGGCTGGTGAAGTTGGCCCTGTTGCAGCATCTGCGGGCCTTCTATGGTATTAAGGTGA
AGGGTGTCCGTGGGCAGTGCATCGCAGGAGACATGAAACAGCAGCCACGGAAATAGGGGGTAAAAATATT
TGGAGTACCTTTAATGCACTGCCCCATTCTGCTGTACCAGAATATGGACACATTCCAAGCTTTCTTGTC
GATGCTTGCACATCTTTAGAAGAACATATTCATACCGAAGGGCTTTTTCGGAAATCAGGATCTGTGATTC
GCCTAAAAGCACTAAAGAATAAAGTGGATCATGGTGAAGGTTGCCTATCTTCTGCACCTCCTTGATAT
TGCGGGACTTCTTAAGCAGTTTTTAGGGAAGTCCAGAGCCCATCTCCAGCTGATTTGCATGAAGCA
CTTTTGAAGCTCAACAGTTAGGCACAGAGGAAAAGAATAAAGCTATACTGTTGCTCCTGCTCTCTG
CTGACCACACAGTTTATGATTAAGATACTTCTTAACTTTCTCAGGAATGTTTCTCTTAGATCCAGTGA
GAATAAGATGGATAGCAGCAATCTTGCAGTAATATTTGCACCAAACTCTTTCAGACAAGTGAAGGACAT
GAAAAGATGTCTTCTAACGCAGAAAAGAAGGGCGTGTACCAGACTTTATCCTGAAAAGATACCAGCCAT
GTTGGGTATTGATGGTCTCTGTGCTACTCCATCACTGGAAGGCTTGAAGAAGGTGAATATGAACTCCT
GGTGAATATAAGAGAAAAGAGAAGACAACGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC210478 protein sequence
Red=Cloning site Green=Tags(s)

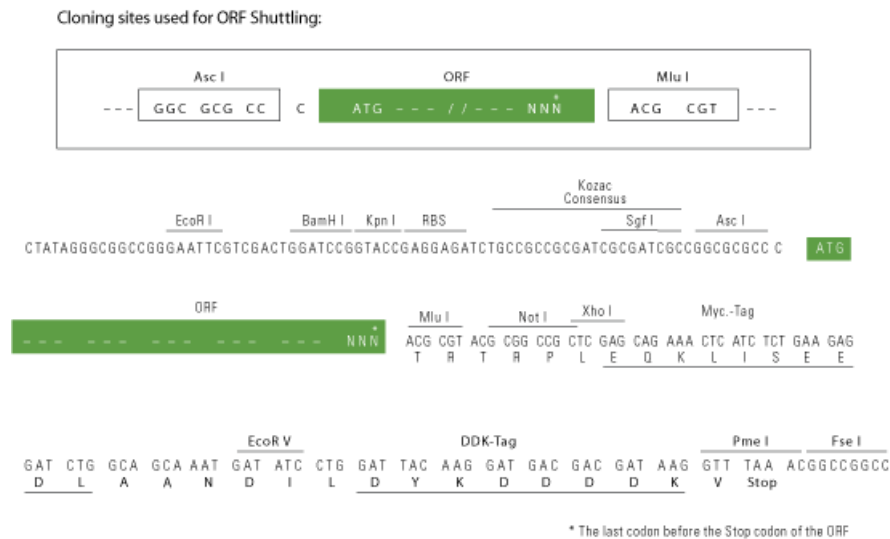
MWDQRLVKLALLQHLRAFYGIKVKGVGRGQCDRRRHETAATEIGGKIFGVPFNALPHSAVPEYGHIPSFLV
 DACTSLEEHIHTEGLFRKSGSVIRLKALKNKVDHGEGLSSAPPCDIAGLLKQFFRELPEPILPADLHEA
 LLKAQQLGTEENKAILLLSCLLADHTVHVLRYFFNFLRNVSLSSENKMDSSNLAVIFAPNLLQTSEGH
 EKSSNAEKKGVYQTLWKRYQPCWVLMVSVLLHHWKALKKVNKMLLVNIREREDNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6746_a09.zip

Restriction Sites: AscI-MluI

Cloning Scheme:



ACCN: NM_001039841

ORF Size: 801 bp

OTI Disclaimer: 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_001039841.2](#)

RefSeq Size: 1045 bp

RefSeq ORF: 804 bp

Locus ID: 89839

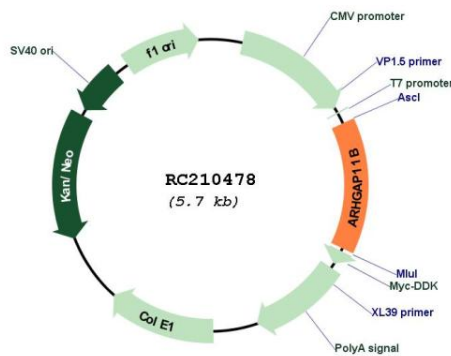
UniProt ID: [Q3KRB8](#)

Cytogenetics: 15q13.2

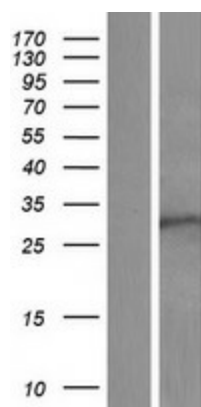
MW: 30.3 kDa

Gene Summary: Hominin-specific protein that promotes development and evolutionary expansion of the brain neocortex (PubMed:25721503). Able to promote amplification of basal progenitors in the subventricular zone, producing more neurons during fetal corticogenesis (PubMed:25721503). Does not possess GTPase activator activity (PubMed:25721503). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC210478



Western blot validation of overexpression lysate (Cat# [LY421835]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210478 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).