

## Product datasheet for **RG210478**

### **ARHGAP11B (NM\_001039841) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP11B (NM_001039841) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARHGAP11B
Synonyms:	B'-T; FAM7B1; GAP (1-8)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210478 representing NM_001039841 Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GGCGCGCC**

ATGTGGGATCAGAGGCTGGTGAAGTTGGCCCTGTTGCAGCATCTGCGGGCCTTCTATGGTATTAAGGTGA  
AGGGTGTCCGTGGGCAGTGCATCGCAGGAGACATGAAACAGCAGCCACGGAAATAGGGGGTAAAAATATT  
TGGAGTACCTTTAATGCACTGCCCATCTGCTGTACCAGAATATGGACACATCCAAGCTTTCTTGTC  
GATGCTTGACATCTTTAGAAGAACATATTCATACCGAAGGGCTTTTTCGGAAATCAGGATCTGTGATTC  
GCCTAAAAGCACTAAAGAATAAAGTGGATCATGGTGAAGGTTGCCTATCTTCTGCACCTCCTTGATAT  
TGCGGGACTTCTTAAGCAGTTTTTAGGGAAGTCCAGAGCCCATCTCCAGCTGATTTGCATGAAGCA  
CTTTTGAAGCTCAACAGTTAGGCACAGAGGAAAAGAATAAAGCTATACTGTTGCTCCTGCTCTCTG  
CTGACCACACAGTTCATGTATTAAGATACTTCTTAACTTTCTCAGGAATGTTTCTCTTAGATCCAGTGA  
GAATAAGATGGATAGCAGCAATCTTGCAAGTAATTTGCACCAAACTCTTCTCAGACAAGTGAAGGACAT  
GAAAAGATGTCTTCTAACGCAGAAAAGAAGGGCGTGTACCAGACTTTATCCTGAAAAGATACCAGCCAT  
GTTGGGTATTGATGGTCTCTGTGCTACTCCATCACTGGAAGGCTTGAAGAAGGTGAATATGAACTCCT  
GGTGAATATAAGAGAAAAGAGAAGACAACGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210478 representing NM\_001039841  
 Red=Cloning site Green=Tags(s)

MWDQRLVKLALLQHLRAFYGIKVKGVRGQCRRRHETAATEIGGKIFGVFPNALPHSAVPEYGHIPSFLV  
 DACTSLEEHIHTEGLFRKSGSVIRLKALKKNKVDHGEGLSSAPPCDIAGLLKQFFRELPEPILPADLHEA  
 LLKAQQLGTEENKAILLLSCLLADHTVHVLRYFFNFLRNVSLRSENKMDSSNLAVIFAPNLLQTSEGH  
 EKMSNAEKKGVYQTLWKRYQPCWVLMVSVLLHHWKALKKVNMLLVNIREREDNV

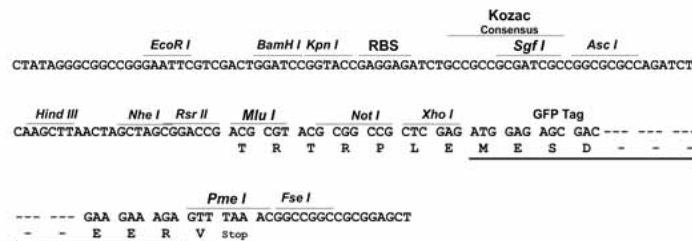
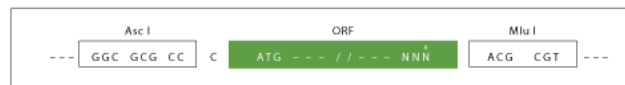
TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2404\\_f09.zip](https://cdn.origene.com/chromatograms/ja2404_f09.zip)

**Restriction Sites:** AscI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**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

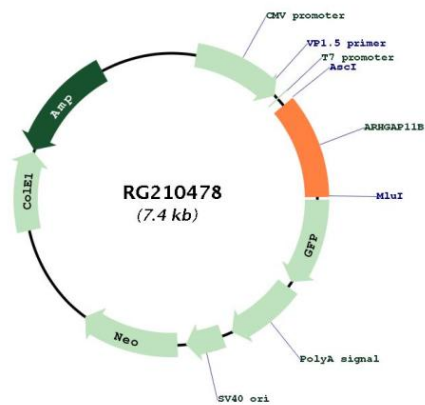
**Locus ID:** 89839

**UniProt ID:** [Q3KRB8](#)

**Cytogenetics:** 15q13.2

**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 RG210478