

Product datasheet for **RG234179**

RGH19 (ARHGAP19) (NM_001204300) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGH19 (ARHGAP19) (NM_001204300) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RGH19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG234179 representing NM_001204300 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCGACTGAGGCACAGAGTGAAGGGGAGGTGCCAGCCCGCAATCCGGCCGAGTGATGCCATCTGCA
GTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTGAGCCATTATCTTTAATCTGACTTTTTGTGGA
GAACTCCGACATGAGAACTGAGATTTCTACTGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGAT
TTACCTGGAAGTGAAGTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGCTGGCCAG
CATCAGGATTCTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATATTTGGGTCCCACT
GACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTACACAAAACTTGCGAGTAGAGGGT
TTGTTTAGAGTACCGGTAATAGTGTCCGACAGCAGATTTTAAGGGATGCTCTCAATAATGGAAGTACA
TTGACTTGAATCAGGGGAATTTCACTCAAATGATGTTGCCACTTTGCTGAAGATGTTTCTAGGAGAGTT
GCCGGAGCCTCTGCTGACACATAAACACTTCAATGCACACCTCAAAATCGCTGATTTGATGCAGTTTGT
GATAAAGGAAACAAGACCAATATACCAGACAAGGACCGCAAATTGAGGCTCTCCAGTTGCTCTTCTCA
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AGACAAGAACAAGATGTCAGCCTATAACCTTGCCCTTATGTTTGACCCCATGCTCTGTGCCAAAAAAT
GCTCCTGCTTACATTCGGGAGTGTGCGAGATTGCACTATTGGGATCCAGAACTCAGGCATCAAAGGATG
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TATTAAGCGGAAGGTCTGGGAAATCAGATGATGTGAGAAAGAAAAAGAAACCTACTCCAGAATCT
GTGGCCATTGGTGAATTGAAGGGAACAGCAAAGAAATAGGAAGTATTATTTTCTGGCTCTCCAGCTG
TCACGATGACCAACAAGATTGAAGTGGTCTGAAGGGAAGAAAGAGGGGAAAAAAGGATTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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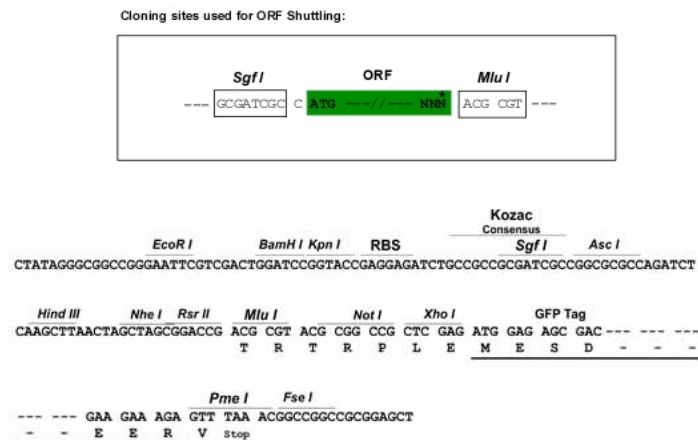
Protein Sequence: >RG234179 representing NM_001204300
 Red=Cloning site Green=Tags(s)

MATEAQSEGEVPARESGRSDAICSFVICNDSSLRGQPIIFNPDDFFVEKLRHEKPEIFTEL VVSNITRLID
 LPGTELAQLMGEVDLKLPGGAGPASGFFRSLMSLKRKEKGVIFGSPLTEEGIAQIYQLIEYLHKNLRVEG
 LFRVPGNSVRQQILRDALNNGTDIDLESGEFHSNDVATLLKMFELGELPEPLLTHKHFNAHLKIADLMQFD
 DKGNTNIPDKDRQIEALQLLFLILPPPNRNLLKLLDLLYQTAKKQDKNKMSAYNLALMFAPHVLWPKN
 APAYIRECARLHYLGSRTQASKDDLDIASCHTKSFQLAKSQKRNVRVDSCPHQEETQHHTEEALRELFQH
 VHDMPESAKKKQLIRQFNKQSLTQTPGREPSTSQVQKRARSRSFSGLIKRVLGNQMMSEKKKKNPTPES
 VAIGELKGTSKENRNLLFSGSPAVTMTPTRLKWSEGGKEGKKGFL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001204300

ORF Size: 1395 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_001204300.1](#), [NP_001191229.1](#)

RefSeq Size: 5408 bp

RefSeq ORF: 1398 bp

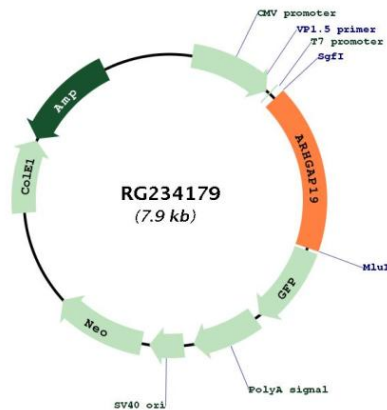
Locus ID: 84986

UniProt ID: [Q14CB8](#)

Cytogenetics: 10q24.1

Gene Summary: Members of the ARHGAP family, such as ARHGAP19, encode negative regulators of Rho GTPases (see RHOA; MIM 165390), which are involved in cell migration, proliferation, and differentiation, actin remodeling, and G1 cell cycle progression (Lv et al., 2007 [PubMed 17454002]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG234179