

Product datasheet for **RG234245**

RGH19 (ARHGAP19) (NM_001256423) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGH19 (ARHGAP19) (NM_001256423) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RGH19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234245 representing NM_001256423
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGCCTCATCAGAACTTTCAGCACTTATTGATGCCATCTGCAGTTTGTGATCTGCAATGATTCTTCCC
 TTCGAGGTCAGCCATTATCTTTAATCCTGACTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGAT
 TTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAAGTGGCTCAGCTG
 ATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGCTGGCCAGCATCAGGATTCTCCGGTCTCTCATGT
 CTCTCAAGCGAAAGGAAAAAGGAGTGATATTTGGGTCCCACTGACGGAGGAAGGCATTGCCAGATATA
 CCAACTGATTGAGTATCTACACAAAACTTGCAGTAGAGGGTTGTTTAGAGTACCGGGTAATAGTGTC
 CGACAGCAGATTTAAGGGATGCTCTCAATAATGGAAGTACATTGACTTGAATCAGGGGAATTTCACT
 CAAATGATGTTGCCACTTTGCTGAAGATGTTTCTAGGAGAGTTGCCGGAGCCTCTGCTGACACATAAACA
 CTTCAATGCACACCTCAAATCGCTGATTGATGCAGTTTGTGATAAAGGAAACAAGACCAATATACCA
 GACAAGGACCGGCAAATGAGGCTCTCCAGTTGCTCTTCTCATTCTCCCTCCTCAATCGTAATTTGC
 TGAAGTTATTGCTTGATCTCCTATACCAGACAGCAAAGAAACAAGACAAGAACAAGATGTGAGCCTATAA
 CCTTGCCCTTATGTTTGACCCCATGTCTGTGGCCAAAAATGTCACTGCAATGACCTTCAGGAGAAT
 ATCACAAGGTTAAACAGTGGGATGGCTTTTATGATTAACACTCCAGAACTTTTTAAGGCTCTGCTT
 ACATTCGGGAGTGTGCGAGATTGCACTATTTGGGATCCAGAACTCAGGCATCAAAGGATGACCTTGACCT
 CATAGCTTCATGTCATACTAAGTCTTTAGCTGGCAAAGTCTCAGAAACGGAACCGGTAGATTCCTGC
 CCTCACCAGGAGGAGACCCAGCACCATACGGAAGAGGCACTGAGAGAGCTGTTTCAACACGTTTATGATA
 TGCCAGAGTCAGCAAAGAAGAAACAATTATTAGACAGTTTAATAGCAATCATTGACCCAGACACCAGG
 GCGAGAACCTTCTACTTCCAGGTACAAAAGAGGGCTCGTTCGCGCTCCTTCAGTGGGCTTATTAAGCGG
 AAGGTCCTGGGAAATCAGATGATGTGAGAAAAGAAAAAGAAACCTACTCCAGAATCTGTGGCCATTG
 GTGAATTGAAGGGAACCAGCAAAGAAAATAGGAACTTATTATTTCTGGCTCTCCAGCTGTACGATGAC
 ACCAACAAGATTGAAGTGGTCTGAAGGGAAGAAAGAGGGGAAAAAAGGATTTCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

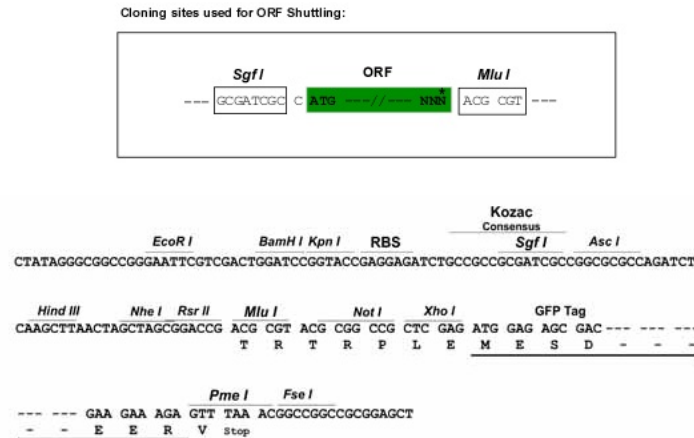
>RG234245 representing NM_001256423
 Red=Cloning site Green=Tags(s)

MPHQKLSALIDAICSFVICNDSSLRGQPIIFNPdffVEKLrHEKPEIFTELvVSNITRLIDLPgTELAQL
 MGEVDLKLPGGAGPASGFFRSLMSLKRKEKGVIFGSPLTEEGIAQIYQLIEYLHKNLrVEGLFRVPGNSV
 RQQILRDALNNGTDIDLESGEFHSNDVATLLKMFLGELPEPLLTHKHfNAHLKIADLMQFDDKGNKTNIP
 DKDRQIEALQLFLILPPPNRNLLKLLDLLYQTAKKQDKNKMSAYNLALMFAPHVLWPKNVTANDLQEN
 ITKLNSGMAFMIKHSQKLfKAPAYIRECARLHYLGSRTQASKDDLdLIASCHTKSFQLAKSQRNRVDSC
 PHQEETQHHTEEALRELfQHVDMPESAKKKQLIRQFNKQSLTQTPGREPSTSQVQKRARSRSfSGLIKR
 KVLGNQMSEKKKKNPtPESVAIGELKGTsKENRNLLfSGSPAVTMTPTRLKWSEgKKEGKKGfL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001256423

ORF Size: 1455 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_001256423.2](#)

RefSeq Size: 5478 bp

RefSeq ORF: 1458 bp

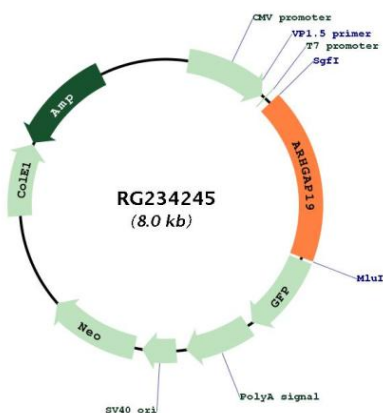
Locus ID: 84986

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 RG234245