

Product datasheet for RC235193

ARHGAP20 (NM_001258417) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP20 (NM_001258417) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARHGAP20
Synonyms:	RARHOGAP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC235193 representing NM_001258417 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAACTAGCAGAAAGGAGGAGGAGCGCTCCATCTTTATCCTGGATAAAGCCCTACAAAAACGGC
CTACTACCAGGGACAGTCTTCTGCTAGTGTGACACATGCACATTTCTGTCATCATTAGTGTGCTCCAA
TAGGACTCTGCTGATTGATGGCCGGCAGAACTCAAAGAGGCCCTCAGAGGCAGGAGCGGCATCTTTTC
CTATTCATGATCTGTTTGTGGCCAAAATCAAATATAACAATAACTTTAAGATAAAAAATAAAATTA
AATTAAGTATGATGTGGACAGCAAGCTGTGTGGATGAAGTGGGAGAAGGCAACCAATGCCATGAAATC
CTTTGTTTGGGCTGGCCACAGTGAACCTTTGTGGCCACTTTTCAGTTCTCCAGAACAAAAGGACAAATGG
CTCTCTCTCCTTCAGAGATACATCAATCTAGAGAAAGAAAAGGACTACCCGAAGAGCATTCCCCTCAAAA
TCTTCGCCAAGGACATTGGGAATTGTGCCTACTCTAAAATATAACAGTAATGAATTCAGATACAGCGAA
TGAAGTTATCAACATGTCATTACCAATGCTAGGGATAACTGGCTCTGAGAGAGATTACCAGTTGTGGGTC
AATTCTGGCAAAGAAGAGGCTCCATACCCACTATTGGGCATGAATATCCATATGGAATTAATAAGAGCC
ATCTTCGAGACTCTGCCTCTGACACCGGGATCAAAGGACTTACCACCCCTTTCAACCTCCAGGAGCC
CTTCCTTATGGAACAGTCCCGGAGAGATGCAGTGCCAGTTTCATCCTGAAGCCAGCCGCTGGCTGCA
GCCAGCAACTGAGTGATTGAGTGCATAAGACATTTAAAAGGAGAAGATCTATCAAAAAGTGGCCTTCT
GGCAGGTTCTAGCACTCACCTGGACAACCTTGCCTCATCGCAACATCACCTATGCCAGGACAGCTCTT
TGGAATTTCTCTGCCAAATATTTGTGAGAATGACAATCTGCCAAACCTGTCTGGATATGCTTTTCTTT
CTTAATCAAAAAGGACCTCTCACCAAAGGTATCTTCAGGCAATCAGCCAATGTGAATCCTGCAGAGAAC
TAAAAGAGAAATGAATCTGGAGTCGAAGTACACCTAGACTGTGAATCTATTTTGTGATAGCATCTGT
CTTAAAGGATTTCTGCGAAATATCCAGGAAGTATTTTTTCATCAGATCTCTATGATCACTGGGTCTCT
GTAATGGATCAAGGAAATGATGAAGAGAAAATAAATACTGTTCAAAGGCTATTAGACCAGCTTCCGAGAG
CCAATGTTGTTCTCCTAAGGTATCTTTTTGGGGTGTACACAACATTGAGCAACATTCTCATCCAATCA
GATGACTGCATTTAATTTAGCTGTGTGTGCTCGCTCCAAGTATTCTTTGGCCTCCTGCTTCTCCAGCCCA
GAACTAGAAAACGAATTTACAAAAAGGTTTCCCTGCTTATACAATTTCTGATTGAGAATTGCCTTAGGA



TATTTGGAGAAGAAATCACTTCCCTCTTCAGAGAGGTTTCAGTGAGATGTGACACTAGAGAGAATGCCTC
AGATATTTCTTGCTTTCAACTGAATGACTCCTCTATGACAGCTTGAAAAATGAGCTAAATGAGGATGTT
GATGCACCATGCAGTGACTTGGTAAAGAACTTGGCCAGGGGAGCAGAAGCATGGACTCTGTCTTAACCC
TCAGTGACTATGATCTTGACCAGCCGAGGTGGAAGGCCTTTTAACCTAAGCGACTTTGACTTGGCCCA
TTCTAAAGATGAAGATGTTCAAATGAAACGGCCTCTTGAATCCAAGCCGGTGAACATTTTAGTGACACA
AAGATCCCCTGCGGGATCATGCCAGGGCCCCATCGCCATGTGCACACCCAGCTACCTGTCCACAGCTG
CAGCAAATGCTGCAAAAAGCCTGAGGCGACACCGCGTTGCTCAGAGCCAGCATCGACTATCTGGATTC
AAAGCTTTCTACCTCAGGGAGTTTTATCAGAAAAAGCTACGCAAGTCCAGCTGTGATGCAATTCCTTCT
CAAAAAGATGAAGACTATCTGAAGCAGAATCAACCCCTCCAGGAGGAAGGAAAGACATGTTTTAACAGA
GTTTAGTCACAGGCACTGATGTCAGCAAGAAAAATGCCACTACTCAAACACTAAGAAGAAAAAGCTTGTC
TGGTAGTGAAGGAAATCACGTGAACTTTCCCTAAGTCTAAGCCAGTGGCCATTTCTGTGGCATCTTAT
AGTCTATGTCTCACAGGATCATTCCAAGAACCAGCCCTTTGATGTGAATACATCTGGATACTCCCCAC
CACACACAGCAGATGCCCTCAAGGTCAGGACACATCGGCGCTGCTCAGAGCCCAACATAGAAGACCA
GAACCGCAAGCTGACCTATCTCAGGGGAATTTATCAAAGAAACAACATAAAACCAGCTGTGAAGCTGGT
CTCTTGATGGAGAGGAGGATTATCTCAAACGGCATAAGTCTTTGCAAATGGAGGGGCAGAAGCTCATT
ATCAGAGTTTAGTCATGGGGATTGAGGTGGCAAGAGTAGTGCCACAAACCAAAACACTGAGAAGGTTTT
ACCCCAAGATTAACCTTTGCCAAGGACCAGCTATTCCAGCTTATCCTCCCCAGGCACTTCCCATCC
GGCTCATCAGTAAGCTCCAAGACAGTGCTTTTTCTCAGATTTCTGAACACTCTGTGTTACACCCACTG
AGACTTCTCTCCAATAGATTGCACTTTTCAGGCTCAGAGAAAACGGGAAGACCTTTCTCCTGACTTTAG
CAATGCCAGCCATGTTTCCGGAATGCCCGTCCCTCATCAGGGCAGGCTTGCAGCCGCCAGCCTATACA
AAGAAGGACACCATGGAGTGGCATTCAAAATGCATTCTGTAACCTTTCATCCCAGCACATGGTTGAGAA
ATGGTGTGGCCAGTTTAAAAACTGGTCCCTCAAAAAGAAAGCAAAGGCAGCCAGACCAGAGGAAGAGAA
AATAGCTTCTCCAAAAGGACCTTAGAGCCACCCACATGCTTCTGGTGTCCAGAAGCCAACTCACTG
CAAGAGGAACAAAAAGACTTGCCCTTAAGGGCAGCTGAAGGACTGTCCCTGTGCAGTCAGCCCAAAGGT
GTAGTTCTTCTCCCTCCAGGACTCAGAGAGACTGTAGCTCTCCATTAGCCTGGTGGAGAGCAGACT
TAAGCTGTGCATGAAGTCACATGAGGAAATAGAGCCTGGTAGTCAGAGCTCTTCTGGTTCTCTGCCTTG
GAAAGAGCCTCAGCCAGCTCTTGACTCTAGAGGATGCGACCAGCCAGACTCAGGGCCTACAGTGGTCT
GCGACATTGAGGACAGGTATTTAACCAAGACATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235193 representing NM_001258417
 Red=Cloning site Green=Tags(s)

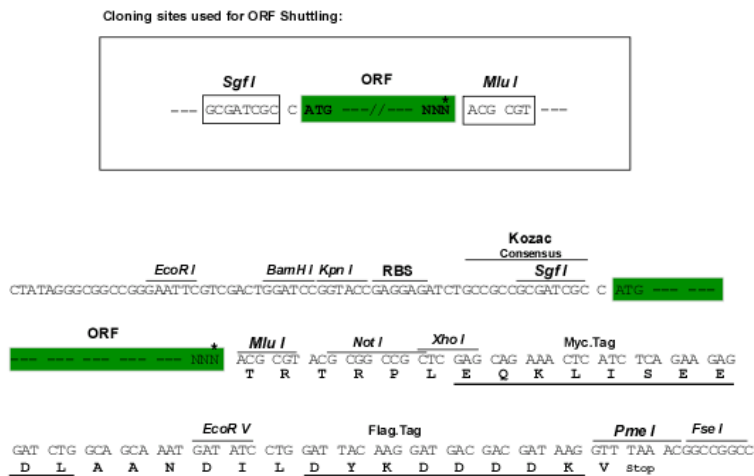
MKTLAERRRSAPSLILDKALQKRPTTRDPSASVDTCTFLSSLVCSNRTLLIDGRAELKRGLQRQERHLF
 LFNDLFVVAIKIKYNNFKIKNKIKLTMWTASCVDEVEGEGNTAMKSFVLGWPTVNFVATFSSPEQKDKW
 LSLLRQYINLEKEKDYPKSIPLKIFAKDIGNCAYSKTITVMNSDTANEVINMSLPLMGITGSRDYQLWV
 NSGKEEAPYPLIGHEYPIYGIKMSHLRDSALLTPGSKDSTTPFNLQEPFLMEQLPREMQCQFILKPSRLAA
 AQQLSDSGHKTFKRRRSIINWAFWRGSSSTHLDNLPSSPTSPMPGQLFGISLPNICENDNLPKPVLDMLFF
 LNQKGPLTKGIFRQSANVKSCRELKEKLNAGVEVHLDCEIFVIAVSKDFLRNIPGSISSDLYDHWVS
 VMDQGNDEEKINTVQRLLDQLPRANVLLRFLVGLHNIHQHSSSNQMTAFNLAVCVAPSILWPPASSSP
 ELENEFTKKVSLLIQFLIENCLRIFGEEITSLFREVSVRCDTRENASDISCFQLNDSSYDLENELNEDV
 DAPCSDLVKKLGQGSRSMDSVLTLSDYDLQPEVEGLLTLSDFDLAHSDKDEDVQMKRPLESKPVNIVYT
 KIPLRDHARAPSAMCTPSYLSTAAANAASLRRHRCSEPSIDYLDKLSYLREFYQKLRKSSCDAILS
 QKDEDYLNQNPQLEEGKTCFKQSLVTGTDVSKKNATTQNTKKKSLSGSEGNHVKLPKSKPVAISVASV
 SPMSSQDHSKNQPFVNTSGYSPHTADALGPRTHRRRCSEPNIEDQNRKLTYLRTGIYSKKQHKTSCEAG
 LLHGEEYLRKHSLQMEGQKLINQSLVMGIEVGKSSATNQNTKVLPPRLNLCPRTSYSSLSPPGTS
 GSSVSSQDSAFSQISEHSVFTPTETSSPIDCTFQAQRKREDLSPDFSNASHVSGMPGSSGQACSRPAYT
 KKDTMEWHSQMHSVTLHPSTWLRNGVASLKNWSLKKAKAARPEEEKIASPKGPLEPPPASGVPEANSL
 QEEQKDLPLRAAEGSPVQSAQRCSPPFQDSERHCSSPFLVESRLKLCMKSHIEIEPGSQSSSSGLPW
 ERASASSWTLEDATSPDSGPTTVCDIEDRYLTKDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

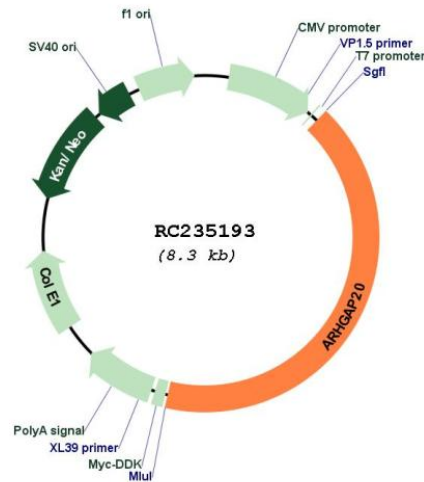
SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001258417

ORF Size: 3465 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_001258417.1](#), [NP_001245346.1](#)

RefSeq Size: 5899 bp

RefSeq ORF: 3468 bp

Locus ID: 57569

UniProt ID: [Q9P2F6](#)

Cytogenetics: 11q22.3-q23.1

MW: 129.4 kDa

Gene Summary: The protein encoded by this gene is an activator of RHO-type GTPases, transducing a signal from RAP1 to RHO and impacting neurite outgrowth. [provided by RefSeq, Sep 2016]