

Product datasheet for **RC235201**

ARHGAP20 (NM_001258416) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP20 (NM_001258416) 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:	>RC235201 representing NM_001258416 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACATTTTGGATTATAATAAATAAGAAAATGAAAACACTAGCAGAAAGGAGGAGGAGCGCTCCATCTC
TTATCCTGGATAAAGCCCTACAAAAACGGCCTACTACCAGGGACAGTCCTTCTGCTAGTGTGACACATG
CACATTTCTGTCATCATTAGTGTGCTCCAATAGGACTCTGCTGATTGATGGCCGGCAGAACTCAAAGA
GGCCTCCAGAGGCAGGAGCGGCATCTTTTCTTCAATGATCTGTTTGTGGCCAAAATCAAATATA
ACAATACTTTAAGATAAAAAATAAAATTAATTAAGTATGTGGACAGCAAGCTGTGTGGATGAAGT
GGGAGAAGGCAACACCAATGCCATGAAATCCTTTGTTTTGGGCTGGCCACAGTGAACCTTTGTGGCCACT
TTCAGTTCTCCAGAACAAAAGGACAAAATGGCTCTCTCTCCTTCAGAGATACATCAATCTAGAGAAAAGAA
AGGACTACCCGAAGAGCATTCCCCTCAAATCTTCGCCAAGGACATTGGGAATTGTGCCTACTCTAAAAC
TATAACAGTAATGAATTCAGATACAGCGAATGAAGTTATCAACATGTCTTACCAATGCTAGGGATAACT
GGCTCTGAGAGAGATTACCAAGTTGTGGTCAATTCTGGCAAAGAAGAGGCTCCATACCCACTCATTGGGC
ATGAATATCCATATGGAATTAATAAGCCATCTCGAGACTCTGCACTCCTGACACCGGGATCAAAGGA
CTCTACCACCCCTTTCAACCTCCAGGAGCCCTTCTTATGGAACAGCTCCCCGAGAGATGCAGTGCCAG
TTCATCTGAAGCCAGCCGCTGGCTGCAGCCAGCAACTGAGTGATTAGGTCATAAGACATTTAAAA
GGAGAAGATCTATCATAAACTGGGCCTTCTGGCGAGGTTCTAGCACTCACCTGGACAACCTTGCCTCATC
GCCAACATCACCTATGCCAGGACAGCTCTTTGGAATTTCTGCCAAATATTTGTGAGAATGACAATCTG
CCCAAACCTGTCTGGATATGCTTTTCTTCTTAATCAAAAAGGACCTCTCACCAAAGGTATCTTCAGGC
AATCAGCCAATGTGAAATCCTGCAGAGAACTAAAAGAGAAATGAATTCTGGAGTCGAAGTACACCTAGA
CTGTGAATCTATTTTGTGATAGCATCTGTCTTAAAGGATTTCTGCGAAATATCCAGGAAGTATTTTT
TCATCAGATCTCTATGATCACTGGTCTCTGTAATGGATCAAGGAAATGATGAAGAGAAAATAAATACTG
TTCAAAGGCTATTAGACCAGCTTCGAGAGCCAATGTTGTTCTCCTAAGGTATCTTTTTGGGGTGTTACA
CAACATTGAGCAACATTCCTCATCCAATCAGATGACTGCATTTAATTTAGCTGTGTGTGCTCCAAGT
ATTCTTTGGCCTCCTGCTTCTCCAGCCAGAACTAGAAAACGAATTTACAAAAAGGTTTCCCTGCTTA



[View online »](#)

TACAATTTCTGATTGAGAATTGCCTTAGGATATTTGGAGAAGAAATCACTTCCCTCTTCAGAGAGGTTTC
AGTGAGATGTGACACTAGAGAGAATGCCTCAGATATTTCTTGCTTCAACTGAATGACTCCTCCTATGAC
AGCTTGGAAAAATGAGCTAAATGAGGATGTTGATGCACCATGCAGTGACTTGGTAAAGAACTTGGCCAGG
GGAGCAGAAGCATGGACTCTGTCTTAACCTCAGTGACTATGATCTTGACCAGCCCGAGGTGGAAGGCCT
TTTAACCTAAGCGACTTTGACTTGGCCATTCTAAAGATGAAGATGTTCAAATGAAACGGCCTCTTGAA
TCCAAGCCGGTGAACATTTTAGTGTACACAAAGATCCCCTGCGGGATCATGCCAGGGCCCCATCTGCCA
TGTGCACACCCAGCTACCTGTCCACAGCTGCAGCAAATGCTGCAAAAAGCCTGAGGCGACACCCGGCTT
CTCAGAGCCAGCATCGACTATCTGGATTCAAAGCTTTCCTACCTCAGGGAGTTTTATCAGAAAAAGCTA
CGCAAGTCCAGCTGTGATGCAATCTTTCTCAAAAAGATGAAGACTATCTGAAGCAGAATCAACCCCTCC
AGGAGGAAGGAAAGACATGTTTTAAACAGAGTTTAGTCACAGGCACTGATGTCAGCAAGAAAAATGCCAC
TACTCAAAACACTAAGAAGAAAAGCTTGTCTGGTAGTGAAGGAAATCACGTGAACTTTTCCCTAAGTCT
AAGCCAGTGGCCATTTCTGTGGCATCTTATAGTCTATGTCTCACAGGATCATTCCAAGAACCAGCCCT
TTGATGTGAATACATCTGGATACTCCCCACCACACACAGCAGATGCCCTCAAGGGTCCAAGGACACATCG
GCGCTGCTCAGAGCCCAACATAGAAGACCAGAACCGAAGCTGACCTATCTCAGGGGAATTTATTCAAAG
AAACAACATAAAACCAGCTGTGAAGCTGGTCTCTTGCATGGAGAGGAGGATTATCTCAAACGGCATAAGT
CTTTGCAATGGAGGGGCGAGAAGCTCATTAAATCAGAGTTTAGTCATGGGGATTGAGGTGGCAAGAGTAG
TGCCACAAAACAAAACACTGAGAAGTTTTACCCCAAGATTAACCTTTGCCCAAGGACCAGCTATTCC
AGCTTATCCTCCCAGGCACTTCCCATCCGGCTCATCAGTAAGCTCCAAGACAGTGCTTTTTCTCAGA
TTTTCTGAACACTCTGTGTTTACACCCACTGAGACTTCTCTCCAATAGATTGCATTTTCAGGCTCAGAG
AAAACGGGAAGACCTTTCTCTGACTTTAGCAATGCCAGCCATGTTTCCGGAAATGCCCGTCCCTCATCA
GGCAGGCTTGCAGCCGCCAGCCTATACAAAGAAGGACACCATGGAGTGGCATTCAAAATGCATTCTG
TAACTCTTATCCAGCACATGGTTGAGAAATGGTGTGGCCAGTTTAAAAACTGGTCCCTCAAAAAGAA
AGCAAAGGCAGCCAGACCAGAGGAAGAGAAAATAGCTTCTCAAAAAGACCCTTAGAGCCACCCCAT
GCTTCTGGTGTTCAGAAGCCAACCTCACTGCAAGAGGAACAAAAAGACTTGCCCTTAAGGGCAGCTGAAG
GACTGTCCCTGTGCAGTCAGCCAAAGGTGTAGTTCTTCTCCCTTCCAGGACTCAGAGAGACACTGTAG
CTCTCCATTACAGCTGGTGGAGAGCAGACTTAAGCTGTGCATGAAGTACATGAGGAAATAGAGCCTGGT
AGTCAGAGCTCTTCTGGTCTCTGCCTTGGGAAAGAGCCTCAGCCAGCTTTGGACTCTAGAGGATGCGA
CCAGCCAGACTCAGGGCTACAGTGGTCTGCGACATTGAGGACAGGTATTTAACCAAAGACATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235201 representing NM_001258416
 Red=Cloning site Green=Tags(s)

MTFWIIINKMKTLAERRRSAPSLILDKALQKRPTTRDPSASVDTCTFLSSLVCSNRTLLIDGRAELKR
 GLQRQERHLFLFNDLFVVAIKYNNNFKIKNKIKL TDMWTASCVDEVEGENTNAMKSFVLGWPTVNFVAT
 FSSPEQDKDWL SLLQRYINLEKEKDYPKSIPLKIFAKDIGNCAYSKTITVMNSDTANEVINMSLPLMGIT
 GSERDYQLWVNSGKEEAPYPLIGHEYPIYGIKMSHLRDSALLTPGSKDSTTPFNLQEPFLMEQLPREMQCQ
 F.I.L.K.P.S.R.L.A.A.A.Q.Q.L.S.D.S.G.H.K.T.F.K.R.R.R.S.I.I.N.W.A.F.W.R.G.S.S.T.H.L.D.N.L.P.S.S.P.T.S.P.M.P.G.Q.L.F.G.I.S.L.P.N.I.C.E.N.D.N.L
 PKPVLDMFLFNQKGPLTKGIFRQSANVKSRELKEKLN SGVEVHLDCESIFVIA SVLKDFLRNIPGISIF
 SSDLYDHVSVMDQGNDEEKINTVQRLLDQLPRANVLLR YLFGVLHNIEQHSSSNQMTAFNLAVCVAPS
 ILWPPASSPELENEFTKKVSLLIQFLIENCLRIFGEEITSLFREVSVRCDTRENASDISCFQLNDSYD
 SLENELNEDVDAPCSDLVKKLGQGSRSMSVLTLSDYDL DQPEVEGLL T L SDFDLAHSKDEDVQMKRPLE
 SKPVNILVYTKIPLRDHARAPSAMCTPSYLSTAAANA AKSLRRHRRRCSEPSIDYLD SKLSYLREFYQKKL
 RKSSCDAILSQKDEDY LKQNQPLQEEGKTCFKQSLVTGTDVSKKNATTQNTKKKSLSGSEGNHVKLFPKS
 KPVAISVASYSMPSSQDHSKNQPFVNTSGYSPHTADAL KGPRTHRRRCSEPNIEDQNRKLYLRGIYSK
 KQHKTSCEAGLLHGEEDYLKRKSLQMEGQKLINQSLVMGIEVGKSSATNQNTKTEVLPPRLNLCPRTSYS
 SLSSPGTSPSGSSVSSQDSAFSQISEHSVFTPTETSSPIDCTFQAQRKREDLSPDFSNASHVSGMPGSS
 GQACSRPAYTKKDTMEWHSQMHSVTLHPSTWLRNGV ASLKNWSLKKAKAARPEEEKIASPKGLEPPPH
 ASGVPEANSLQEEQKDLPLRAAEGSPVQSAQRCS SPPFQDSERHCSSPFLVESRLKLCMKSHHEIEPG
 SQSSSSGLPWERASASSWTLEDATSPDSGPTVVCDI EDRYLTKDI

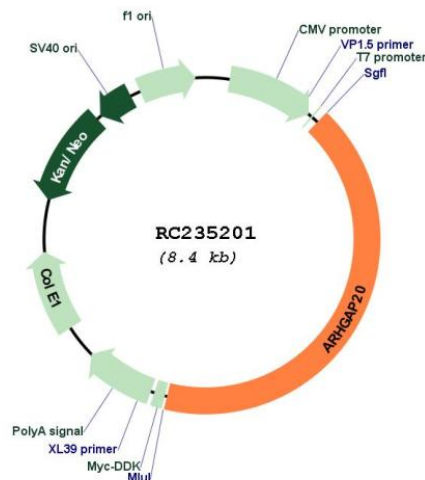
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001258416

ORF Size: 3495 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_001258416.1](#), [NP_001245345.1](#)

RefSeq Size: 6085 bp

RefSeq ORF: 3498 bp

Locus ID: 57569

UniProt ID: [Q9P2F6](#)

Cytogenetics: 11q22.3-q23.1

MW: 130.7 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]