

Product datasheet for **RC218707**

ARHGAP8 (NM_181335) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP8 (NM_181335) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARHGAP8
Synonyms:	BPGAP1; PP610
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC218707 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCTGGCCAGGATCCTGCGCTGAGCAGGAGTACCCGTTCTACGACGTGGCCAGACATGGCATTCTGC
AGGTGGCAGGGGATGACCGCTTTGGAAGACGTGTTGTACGTTTACGCTGCTGCCGATGCCGCCCTCCCA
CGAGCTGGACCACCAGCGGCTGCTGGAGTATTTGAAGTACACACTGGACCAATACGTTGAGAACGATTAT
ACCATCGTCTATTTCCACTACGGGCTGAACAGCCGGAACAAGCCTTCCCTGGGCTGGCTCCAGAGCGCAT
ACAAGGAGTTCGATAGGAAGTACAAGAAGAACTTGAAGGCCCTTACGTTGGTGCACCCACCAGCTTTAT
CAAGTCTGTGGAACATCTTGAAGCCCCTCATCAGTACAAGTTTGGGAAGAAAGTCACTATTTCAAC
TACCTGAGTGAGCTCCACGAACACCTTAAATACGACCAGCTGGTCACTCCCTCCGAAGTTTTCGGGTACG
ATGAGAAGCTCCAGAGCCTGCACGAGGGCCGGACGCCCTCCACCAAGACACCACCGCCGGGCCCC
GCTGCCACACAGCAGTTTGGCGTCAGTCTGCAATACCTCAAAGACAAAAATCAAGGCGAACTCATCCCC
CCTGTGCTGAGGTTACAGTGACGTACCTGAGAGAGAAAGGCCTGCGCACCGAGGGCCTGTTCCGGAGAT
CCGCCAGCGTGCAGACCGTCCGCGAGATCCAGAGGCTCTACAACCAAGGGAAGCCCGTGAACCTTTCACGA
CTACGGGGACATTCACATCCCTGCCGTGATCCTGAAGACCTTCTGCGAGAGCTGCCACGCGCTTCTG
ACCTTCCAGGCCTACGAGCAGATTCTTGGGATCACCTGTGTGGAGAGCAGCCTGCGTGTCACTCGCTGCC
GCCAGATCTTACGGAGCCTCCAGAGCACAACCTACGTCGCTCCGCTACCTCATGGGCTTCTGCATGC
GGTGTCCCGGAGAGCATCTTCAACAAATGAACAGCTTAACCTGGCCTGTGTCTTCGGGCTGAATTTG
ATCTGGCCATCCAGGGGCTCCTCCCTGAGTGCCCTTGTGCCCTGAACATGTTCACTGAAGTCTGA
TCGAGTACTATGAAAAGATCTTACGACCCCGGAGGCACCTGGGAGCACGGCCTGGCACCATGGGAACA
GGGAGCAGGGCAGCCCTTTCAGGAGGCTGTGCCACGGACACAAGCCACGGGCCTCACCAAGCCTACC
CTACCTCCGAGTCCCCTGATGGCAGCCAGAAGACGTCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218707 protein sequence
Red=Cloning site Green=Tags(s)

MAGQDPALSTSHPFYDVARHGILQVAGDDRFGRVVFSCCRMPPSHELDHQRLLEYLKYTLDQYVENDY
TIVYFHYGLNSRNKPSLQWLSAYKEFDRKYKKNLKALYVVHPTSFIKVLWNILKPLISHKFGKKVIYFN
YLSELHEHLKYDQLVIPPEVLRVDEKLQSLHEGRTPPPTKTPPPRPPLTQQFGVSLQYLKDKNQGELIP
PVLRFVTYLRKGLRTEGLFRRSASVQTVREIQRLYNQKPVNFDDYGDIIHIPAVILKTFLELPQPLL
TFQAYEQILGITCVESLRLVTRCRQILRSLPEHNYVVLRYLMGFLHAVSRESIFNKMNSSNLACVFGLNL
IWPSQGVSSLSALVPLNMFTELLIEYYEKIFSTPEAPGEHGLAPWEQGSRAAPLQEAVPRTQATGLTKPT
LPPSPLMAARRRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6743_g11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_181335

ORF Size: 1299 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_181335.2](#), [NP_851852.2](#)

RefSeq Size: 1632 bp

RefSeq ORF: 1302 bp

Locus ID: 23779

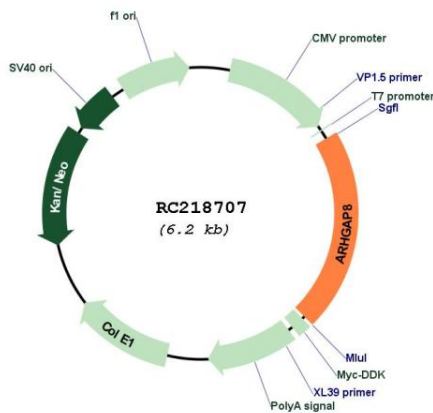
UniProt ID: [P85298](#)

Cytogenetics: 22q13.31

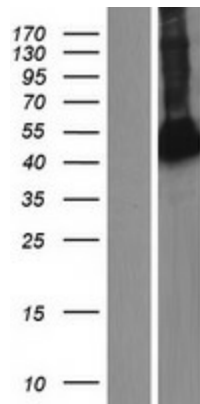
MW: 49.9 kDa

Gene Summary: This gene encodes a member of the RHOGAP family. GAP (GTPase-activating) family proteins participate in signaling pathways that regulate cell processes involved in cytoskeletal changes. GAP proteins alternate between an active (GTP-bound) and inactive (GDP-bound) state based on the GTP:GDP ratio in the cell. This family member is a multidomain protein that functions to promote Erk activation and cell motility. Alternative splicing results in multiple transcript variants. Read-through transcripts from the upstream proline rich 5, renal (PRR5) gene into this gene also exist, which led to the original description of PRR5 and ARHGAP8 being a single gene. [provided by RefSeq, Nov 2010]

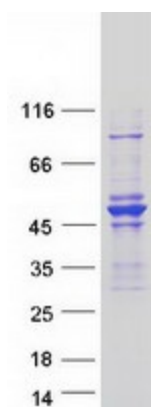
Product images:



Circular map for RC218707



Western blot validation of overexpression lysate (Cat# [LY405790]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218707 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ARHGAP8 protein (Cat# [TP318707]). The protein was produced from HEK293T cells transfected with ARHGAP8 cDNA clone (Cat# RC218707) using MegaTran 2.0 (Cat# [TT210002]).