

Product datasheet for **RG218707**

ARHGAP8 (NM_181335) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP8 (NM_181335) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARHGAP8
Synonyms:	BPGAP1; PP610
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218707 representing NM_181335 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGCCAGGATCCTGCGCTGAGCAGAGTCACCCGTTCTACGACGTGGCCAGACATGGCATTCTGC
AGGTGGCAGGGGATGACCGCTTTGGAAGACGTGTTGTACGTTTCAGCTGCTGCCGGATGCCACCTCCCA
CGAGCTGGACCACGCGGCTGCTGGAGTATTTGAAGTACACACTGGACCAATACGTTGAGAACGATTAT
ACCATCGTCTATTTCCACTACGGGCTGAACAGCCGGAACAAGCCTTCCCTGGGCTGGCTCCAGAGCGCAT
ACAAGGAGTTCGATAGGAAGTACAAGAAGAACTTGAAGGCCCTCTACGTGGTGCACCCACAGCTTCAT
CAAGGTCCTGTGGAACATCTTGAAGCCCTCATCAGTCACAAGTTTGGGAAGAAAGTCATCTATTTCAAC
TACCTGAGTGAGCTCCACGAACACCTTAAATACGACCAGCTGGTCATCCCTCCCGAAGTTTTGCGGTACG
ATGAGAAGCTCCAGAGCCTGCACGAGGGCCGACGCGCCTCCACCAAGACACCACCGCCGCGCCCCC
GCTGCCACACAGCAGTTTGGCGTCAGTCTGCAATACCTCAAAGACAAAAATCAAGGCGAACTCATCCCC
CCTGTGCTGAGGTTACAGTGACGTACCTGAGAGAGAAAGGCTGCGCACCGAGGGCCTGTTCCGGAGAT
CCGCCAGCGTGCAGACCGTCCGCGAGATCCAGAGGCTCTACAACCAAGGGAAGCCCGTGAACCTTTGACGA
CTACGGGGACATTACATCCCTGCCGTGATCCTGAAGACCTTCTGCGAGAGCTGCCACAGCCGCTTCTG
ACCTTCCAGGCCTACGAGCAGATTCTCGGGATCACCTGTGTGGAGAGCAGCCTGCGTGTCACTGGCTGCC
GCCAGATCTTACGAGCCTCCAGAGCACAACTACGTCGTCCTCCGCTACCTCATGGGCTTCTGTCATGC
GGTGTCCCGGGAGAGCATCTTCAACAAATGAACAGCTCTAACCTGGCCTGTGTCTTCGGGCTGAATTTG
ATCTGGCCATCCAGGGGTCTCCTCCCTGAGTGCCCTTGTGCCCTGAACATGTTCACTGAAGTCTGTA
TCGAGTACTATGAAAAGATCTTCAGCACCCGAGGCACCTGGGAGCACGGCCTGGCACCATGGGAACA
GGGAGCAGGGCAGCCCTTTGCAGGAGGCTGTGCCACGGACACAAGCCACGGGCCTACCAAGCCTACC
CTACCTCCGAGTCCCCTGATGGCAGCCAGAAGACGTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG218707 representing NM_181335
 Red=Cloning site Green=Tags(s)

MAGQDPALSTSHPFYDVARHGILQVAGDDRFGRVVTFSCCRMPPSHELHDHQRLLLEYLKYTL DQYVENDY
 TIVYFHYGLNSRNKPSLQWLQSAYKEFDRKYKKNL KALYVHPTSFIKVLWNILKPLISHKFGKKVIYFN
 YLSELHEHLKYDQLVIPPEVLR YDEKLQSLHEGRTPPPTKTPPPRPPLPTQQFGVSLQYLKDNQGELIP
 PVL RFTVTYLREKGLRTEGLFRRSASVQTVREIQRLYNQKGPVNFDDYGDIIH I PAVILKTF LREL P QPLL
 TFQAYEQILGITCVESSLRVTGCRQILRSLPEHNYVVLRYLMGFLHAVSR ESIFNKMNSSNLACVFGLNL
 IWPSQGVSSLSALVPLNMFTELLIEYYEKIFSTPEAPGEHGLAPWEQGSRAAPLQEAVPRTQATGLTKPT
 LPPSPLMAARRRL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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_181335.3](#)

RefSeq Size: 1632 bp

RefSeq ORF: 1302 bp

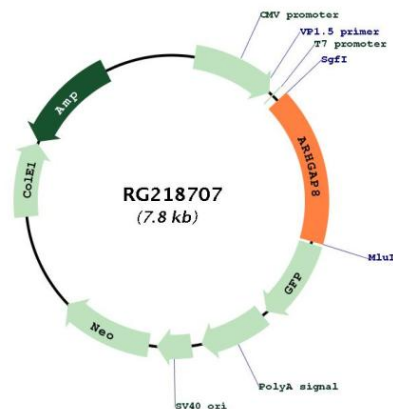
Locus ID: 23779

UniProt ID: [P85298](#)

Cytogenetics: 22q13.31

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 RG218707