

## Product datasheet for **RC218620**

### ARHGAP6 (NM\_006125) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP6 (NM_006125) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARHGAP6
Synonyms:	RHOGAP6; RHOGAPX-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC218620 representing NM\_006125  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCGCGCAGAGCCTGCTCCACAGCGTCTTCTCCTGTTCCTCGCCCGCTTCAAGTAGCGCGCCCTCGG  
 CCAAGGGCTTCTCCAAGAGGAAGCTGCGCCAGACCCGACGCTGGACCCGGCCCTGATCGGCGGCTGCGG  
 GAGCGACGAGGCGGGCGCGGAGGGCAGTGCAGCGGGAGCCACGGCGGGCCGCTCTACTCCCATCACTC  
 CCAGCCGAGAGTCTCGGCCCTCGCTTGGCGTCTCTTCCCGGGTCCGCCCCCAGGGCCACCAGGCTAC  
 CGCCTCTGGACCTTTTGTCTGCTTCTCCACACCCAGCACCCCGCAGGAGAAGTACCATCCGGCAG  
 CTTTCACTTTGACTATGAGGTTCCCTGGGTGCGGGCGGCTCAAGAAGAGCATGGCTGGGACCTGCTT  
 TCTGTCTGGCCGGCCAGCCAGTAGCCGAAGCGCTTCCAGCATCCTCTGTTTCATCCGGGGAGGCCCA  
 ATGGCATCTTCGTTCTCTAGGAGTGGCTCCAGCAGAGGAAGTCCAGTCCCCACCCGACAGTCCGGG  
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 GCAACTGCGACACCTCCACCGCTGCTACAGTTCCTCTCCATCGTGGCCAGGCATGCCGATGACAAAT  
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 GGGCAGTTTATGCTGGTGGCCACTTGTCTGTCGTCAAAGTCAAGGAAAGTTCTCCTGGACCAAGGCTTG  
 GAAAGGTAACGGAGCCTGGCCAGCAGGCGCTGGCCAAAACAAGCGACCCTCCTTGTGTCATGTGGC  
 ATGGTGTGGGGCTCTTCGGACCTTCTCTCGTCTCTCCCTATTTGATGTTTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC218620 representing NM\_006125  
 Red=Cloning site Green=Tags(s)

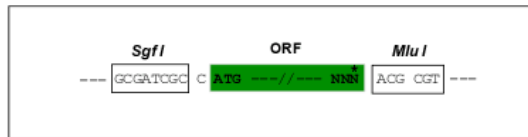
MSAQSLLHSVFCSSPASSSSAASAKGFSKRKLRQTRSLDPALIGGCGSDEAGAEGSARGATAGRLYSPSL  
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 LRSVPIQSLSELERARLQEVAFYQLQQDCDLSCQITIPKDGQKRKSLRKKLDSLGEKNKDKKEFIPQAF  
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 EPAPRARRRGAMSVDSITDLDNNSRLLEALQLSLPAEAQSKKEKARDKLSLNPYRQVPRLVDSCCQH  
 LEKHGLQTVGIFRVGSSKRVQRLEEFDRGIDVSLSEEHVHDVAALLKEFLRDMPPDLLTRELTAFI  
 NTLLEPEEQGLTQLLIYLLPCNCDTLHRLQLFLSIVARHADDNISKDGQEVTKNMTSLNLAIFGP  
 NLLHKQKSSDKFESVQSSARAEESTAIIVVQKMIENYEALFMVPPDLQNEVLISLLETDPDVVDYLLRR  
 KASQSSSPDMLQSEVSFVSGGRHSSTDSNKASSGDISPYDNNSPVLSERSLLAMQEDAAPGGSEKLYRVP  
 GQFMLVGHLSSSKSRESSPGPRLGKGNWSLASRRWPKQATLLLLHVAVCGALRTFSSSLPYLMFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_006125

**ORF Size:** 2295 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\\_006125.3](#)

**RefSeq Size:** 3632 bp

**RefSeq ORF:** 2298 bp

**Locus ID:** 395

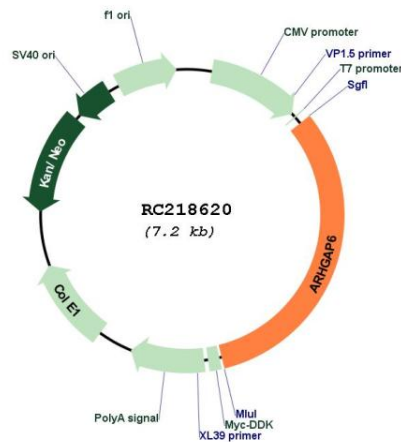
**UniProt ID:** [O43182](#)

**Cytogenetics:** Xp22.2

**MW:** 83.9 kDa

**Gene Summary:** This gene encodes a member of the rhoGAP family of proteins which play a role in the regulation of actin polymerization at the plasma membrane during several cellular processes. This protein is thought to have two independent functions, one as a GTPase-activating protein with specificity for RhoA, and another as a cytoskeletal protein that promotes actin remodeling. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RC218620