

Product datasheet for **RG218620**

ARHGAP6 (NM_006125) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP6 (NM_006125) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARHGAP6
Synonyms:	RHOGAP6; RHOGAPX-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG218620 representing NM_006125
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCGCGCAGAGCCTGCTCCACAGCGTCTTCTCCTGTTCCTCGCCCGCTTCAAGTAGCGCGCCCTCGG
 CCAAGGGCTTCTCCAAGAGGAAGCTGCGCCAGACCCGACGCTGGACCCGGCCCTGATCGGCGGCTGCGG
 GAGCGACGAGGCGGGCGCGGAGGGCAGTGCAGCGGGAGCCACGGCGGGCCGCTCTACTCCCATCACTC
 CCAGCCGAGAGTCTCGGCCCTCGCTTGGCGTCTCTTCCCGGGTCCGCCCCCAGGGCCACCAGGCTAC
 CGCCTCTGGACCTTTTGTCTGCTTCTCCACACCCAGCACCCCGCAGGAGAAGTACCATCCGGCAG
 CTTTCACTTTGACTATGAGGTTCCCTGGGTGCGGGCGGCTCAAGAAGAGCATGGCTGGGACCTGCCT
 TCTGTCTGGCCGGCCAGCCAGTAGCCGAAGCGCTTCCAGCATCCTCTGTTTATCCGGGGAGGCCCA
 ATGGCATCTTCGTTCTCTAGGAGGTGGCTCCAGCAGAGGAAGTCCAGTCCCCACCCGACGTGCGGG
 GCACCCCTACGTGCTGTGAAATCCGAGGGTATTTCACCTGGAACAGCATGTGAGCCGCGAGTGTACGG
 CTGAGGTCACTCCCATCCAGAGTCTCTCAGAGCTGGAGAGGGCCCGGCTGCAGGAAGTGGCTTTTATC
 AGTTGCAACAGGACTGTGACCTGAGCTGTGAGATCACCATTCCCAAGATGGACAAAAGAGAAAGAAATC
 TTTAAGAAAGAACTGGATTCACTAGGAAAGGAGAAAAACAAAGACAAAGAAATTCATCCACAGGCATTT
 GGAATGCCCTTATCCCAAGTCAATGCGAATGACAGGGCTATAAACTCAAGCAGGACTTGACAGAGGGACG
 AGCAGAAAGATGCATCTGACTTTGTGGCTTCCCTCCTCCATTTGGAAATAAAAGACAAAACAAAGAACT
 CTCAGCAGTAACATCTCTCAGCTCAACCTCAGAAACACCGAATGAGTCAACGTCCCCAACACCCCG
 GAACCGGCTCCTCGGGCTAGGAGGAGGGGTGCCATGTGAGTGGATTCTATACCCGATCTTGATGACAATC
 AGTCTCGACTACTAGAAGCTTTACAACCTTTCCTTGCCTGCTGAGGCTCAAAGTAAAAAGGAAAAAGCCAG
 AGATAAGAAACTCAGTCTGAATCCTATTTACAGACAGGTCCCTAGGCTGGTGGACAGCTGCTGTGACGAC
 CTAGAAAAACATGGCCTCCAGACAGTGGGGATATTCAGGTTGGAAGCTCAAAAAAGAGAGTGAGACAAT
 TACGTGAGGAATTTGACCGTGGGATTGATGTCTCTGAGGAGGAGCAGTGTTCATGATGTGGCAGC
 CTTGCTGAAAGAGTTCTGAGGGACATGCCAGACCCCTTCTCACCAGGGAGCTGTACACAGCTTTCATC
 AACACTCTTGTGGAGCCGGAGGAACAGCTGGGCACCTTGCAGCTCCTCATATACCTTCTACCTCCCT
 GCAACTGCGACACCCCTCCACCGCTGCTACAGTTCCTCTCCATCGTGGCCAGGCATGCCGATGACAAAT
 CAGCAAAGATGGCAAGAGGTCACTGGGAATAAAATGACATCTCTAACTTAGCCACCATATTTGGACCC
 AACCTGCTGCACAAGCAGAAGTCACTCAGACAAAGAATTCTCAGTTCAGAGTTCAGCCCGGCTGAGGAGA
 GCACGGCCATCATCGCTGTTGTGCAAAAGATGATTGAAAATTATGAAGCCCTGTTTATGTTCCCCAGA
 TCTCCAGAACGAAGTGTGATCAGCCTGTTAGAGACCGATCCTGATGTCGTGGACTATTTACTCAGAAGA
 AAGGCTTCCCAATCATCAAGCCCTGACATGCTGCAGTCGGAAGTTTCTTTTCCGTGGGAGGGAGGCATT
 CATCTACAGACTCCAACAAGGCCCTCCAGCGGAGACATCTCCCCTTATGACAACAACCTCCCGAGTGTGTC
 TGAGCGCTCCCTGCTGGCTATGCAAGAGGACGCGGCCCGGGGGGCTCGGAGAAGCTTTACAGAGTGCCA
 GGGCAGTTTATGCTGGTGGGCCACTTGTGTCGTCAAAGTCAAGGAAAGTTCTCCTGGACCAAGGCTTG
 GAAAGGTAACGGAGCCTGGCCAGCAGGCGCTGGCCAAAACAAGCGACCCTCCTTGTGTCATGTGGC
 ATGGTGTGGGGCTCTTCGGACCTTCTCTCGTCTCTCCCTATTTGATGTTTCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG218620 representing NM_006125
 Red=Cloning site Green=Tags(s)

```
MSAQSLLHSVFCSSPASSSAASAKGFSKRKLRQTRSLDPALIGGCGSDEAGAEGSARGATAGRLYSPSL
PAESLGPRLASSSRGPPPRATRLPPPGLCSSFSTPSTPQEKSPSGSFHFYDYEVLGRGGLKKSMAWDL
SVLAGPASSRSASSILCSSGGGPNIGFASPRRWLQQRKFQSPDPSRGHPYVVKSEGDFWNMSMGRSVR
LRSVPIQSLSELERARLQEVAFYQLQQDCDLSCQITIPKDGQKRKSLRKKLDSLKKEKNKDKKEFIPQAF
GMPLSQVIANDRAYKQDLQRDEQKDA SDFVASLLPFGNKRQNKELSSNSLSTSETPNESTSPNTP
EPAPRARRRGAMSVDSITDLDDNQSRLLLEALQLSLPAEAQSKKEKARDKKLSLNPYRQVPRLVDS
CCQHLEKHGLQTVGIFRVGSSKKRVRQLREEFDRGIDVSLSEEHVHDVAALLKEFLRDMPPDLLTREL
YAFINTLLEPEEQLTQLLLIYLLPPCNCDTLHRLQLFLSIVARHADDNISKDGQEVTKGKMTSLNLA
TIFGNLLHKKQSSDKFESVQSSARAEESTAIIVVQKMIENYEALFMVPPDLQNEVLISLLETDPD
VVYLLRRKASQSSSPDMLQSEVSFVSGRRHSSTDSNKASSGDISPYDNNSPVLSERSLLAMQEDA
APGGSEKLYRVPGQFMLVGHLSSSKSRESSPGPRLGKGNWSLASRRWPKQATLLLLHVAVCGALRTF
SSSLPYLMFL
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

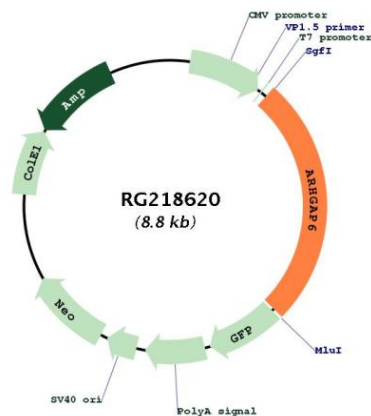
Locus ID: 395

UniProt ID: [O43182](#)

Cytogenetics: Xp22.2

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 RG218620