

Product datasheet for **MG218680**

Arhgap6 (NM_178754) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap6 (NM_178754) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arhgap6
Synonyms:	A1504284; RhoGAPX-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218680 representing NM_178754
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGACCCGCTCTACAGCGAGAAACCCGCTCTGCACTACGCGGGTGACTTCACCTGGAACAGCATGT
 CTGGTCGTAGCGTGCCTGAGGTCAGTCCCATCCAGAGCCTCTCAGAGCTGGAGCGGGCACGACTGCA
 GGAAGTGCTTTTTATCAGTTGCAGCAGGACTGTGACCTGGGCTGTGAGATCACCATCCCCAAAGATGGA
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 AGTGTTCACGATGTGGCAGCCTTGTAAAGGAGTTCCTTAGAGACATGCCTGACCCCTTCTCACAAGGG
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 CTCAGCCAGAGCTGAGGAGAGCACAGCCATCATAGCTGTGGTACAGAAGATGATTGAAAATTATGAAGCC
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 AGGGGAGCATCAGACCAGGCCAAAAAACTGAGCAGCGCCTACTCCCTCTCAGCCAGCAGCAGGACAAA
 CAGAAGTTAGGGGAAGCCAGCTGGCTCGACTGGCAGCGAGAGCGGTGGCAGATCTGGGAGCTTCTATCAA
 CTGATAACCCCGACGCCCTCCGGAAACCTAGTA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG218680 representing NM_178754
 Red=Cloning site Green=Tags(s)

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MGDPSYSEKPRLLHYAGDFTWNSMGRSVRLRSVPIQSLSELERARLQEVAFYQLQQDCDLGCQITIPKDG
QKRKKSRLRKKLDSL GKEKNKDKEFIPQAFGMPLSQVIANDRAYKLLKQDLQREEQKDASSDFVSSLLPFGN
KKQNKELSSSNSSLSTSETPNESTSPNTPEPAPRARRRGAMSVDSITDLDDNQSRLLLEALQLSLPAEAQ
SKKEKARDKKLSLNPIYRQVPRLVDSCCQHLEKHGLQTVGIFRVGSSKKRVRQLREEFDRGVDVCLLEEEH
SVHDVAALLKEFLRDMPDPLL TRELYTAFINTLLLEPEEQLGTLQLLIYLLPPCNCDTLHRLQLFLSIVA
RHADDNVSKDGQEV TGNKMTSLNLATIFGPNLLHKQKSSDKEYSVQSSARAEESTAIIVVQKMIENYEA
LFMVPPDLQNEVLISLLETDPDVVDYLLRRKASQSSSPDILQTEVSFSMGRHSSTDSNKASSGDISPYD
NNSPVLSERSLLAMQEDRARGGSEKLYKVPEQYTLVGHLSPPKSKSRESSPGPRLGKEMSEEPFNIWGTW
HSTLKS GSKDPGMTGSYGDIFESSLRPRPCSLSQGNLSLNWPRCQGSPTGLDSGTQVIRRTQTAATVEQ
CSVHLPVSRVCSTPHIQDGSRGTRRPAASSDPFLSLNSTEDLAEGKEDVAWLQSQARPVYQRPQESGKDD
RRPPPPYPGSGKPATTS AQLPLEPPLWRLQRHEEGSETAVEGGQQASGEHQTRPKKLSAYSL SASEQDK
QNLGEASWLDWQRERWQIWELLSTDNDALPETLV
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_178754

ORF Size: 2415 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_178754.3](#), [NP_848869.1](#)

RefSeq Size: 4035 bp

RefSeq ORF: 2418 bp

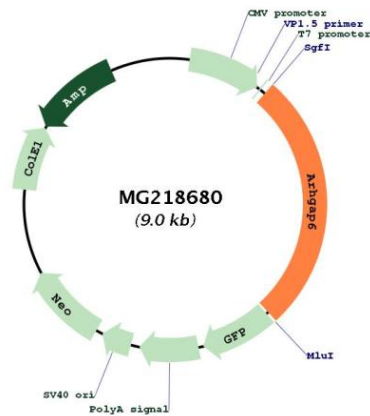
Locus ID: 11856

UniProt ID: [O54834](#)

Cytogenetics: X F5

Gene Summary: GTPase activator for the Rho-type GTPases by converting them to an inactive GDP-bound state. Could regulate the interactions of signaling molecules with the actin cytoskeleton. Promotes continuous elongation of cytoplasmic processes during cell motility and simultaneous retraction of the cell body changing the cell morphology (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG218680