

Product datasheet for **RG234896**

ARHGAP12 (NM_001270697) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGAP12 (NM_001270697) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARHGAP12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234896 representing NM_001270697
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAATGGCTGACAGAAGTGGGAAGATTATTCCAGGACAAGTGTATATTGAGGTGGAATATGATTATG
 AATATGAAGCAAAGGACAGAAAGATTGTGATAAAACAAGGGGAGAGGTACATCTTGGTGAAAAAGACCAA
 TGATGACTGGTGGCAAGTCAAGCCAGATGAAAACCTCAAAGCGTTTTATGTGCCAGCCCAGTATGTGAAG
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 CAAAGAGAAAATAATTAAGTAGGAGCCTGGACAGGCGGCTGCAAGAACCAATAGTATTAACAAAGTGA
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 GAGACTGGTAATATAGCAGTTCATACTGTGTACCAGAATCAGATTGTAGAATTAATCTTCTGAACTGA
 GTTCCATCTTCGGACGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234896 representing NM_001270697
 Red=Cloning site Green=Tags(s)

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MKMADRSKGIIPGQVYIEVEYDYEYEAADRKIVIKQGERYILVKKTNDDWWQVQKPDENSKAFYVPAQYVVK
EVTRKALMPPVKQVAGLPNNSTKIMQSLHLQRSTENVNKLPELSSFSGKPSVSSVQGTGLIRDANQNFGPSY
NQGQTVNLSLDLTHNNGKFNNDSHSPKVSSQNRTRSFQGHFPGPEFLDVEKTSFSQEQSCDSAGEGSEIRH
QDSESGDELSSSSTEQIRATTPPNQGRPDSVYANLQELKISQSALPPLPGSPAIQINGEWETHKDSGR
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QREIIKSRSLDRRLQEPVILTKWRHSTIVLDTNDKESPTASKPCFPENESSPSPKHQDTASSPKDQEKY
GLLNVTKIAENGGKVRKNWLSWAVLQGSLLFTKTQGSSTSWFGSNQSKPEFTVDLKGATIAMASKDKS
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EHVEEHGLDIDGIYRVSGNLAVIQKLRFAVNHDEKLDLNDKWEIHDVITGALKMFFRELPEPLFTFNHF
NDFVNAIKQEPQRVAAVKDLIRQLPKPNQDTMQILFRHLRRVIENGEKNRMTYQSIIVFGPTLLKPEK
ETGNIIVHTVYQNIQIVELILLELSSIFGR
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001270697

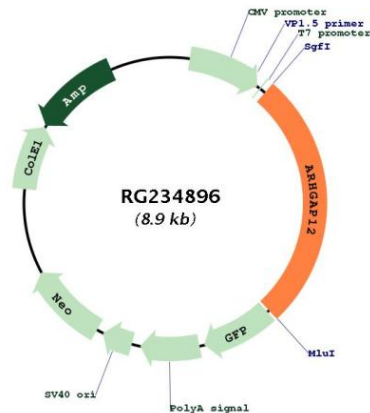
ORF Size: 2397 bp

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:	<ol style="list-style-type: none">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_001270697.1 , NP_001257626.1
RefSeq Size:	4964 bp
RefSeq ORF:	2400 bp
Locus ID:	94134
UniProt ID:	Q8IWW6
Cytogenetics:	10p11.22
Gene Summary:	This gene encodes a member of a large family of proteins that activate Rho-type guanosine triphosphate (GTP) metabolizing enzymes. The encoded protein may be involved in suppressing tumor formation by regulating cell invasion and adhesion. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RG234896