

Product datasheet for **RG234554**

ARHGAP22 (NM_001256026) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | ARHGAP22 (NM_001256026) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | ARHGAP22 |
| Synonyms: | RhoGAP2; RhoGap22 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG234554 representing NM_001256026
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCCTTCTGGCCATCAGGTGTCTGAAGAGGAGCAGGCGTATGCCAGGGGTGGTCCCGGGAGCGGG
 AGAAGGTGCCGGCAACCCGAGGCGCTCTGCTCATGGCCAGCTCCAGCGTGACATGGAGGACTGGGT
 GCAGGCCATCCGCCGAGTCATCTGGGCCCGCTGGGCGGAGGGATCTTTGGGCAGCGCCTAGAGGAAACA
 GTCCACCACGAGCGGAAGTATGGCCCCGCTGGCGCCCTGCTGGTGGAGCAGTGTGTGGACTTCATCC
 GGGAGCGCGGGCTCACTGAGGAGGGGCTGTTCCGCATGCCAGGCCAGGCCAACCTGGTGAGGGACCTGCA
 GGATTCCTTCGACTGTGGGGAGAAGCCACTGTTTGACAGCACAACAGACGTGCACACGGTGGCCTCCCTG
 CTGAAGCTGTACCTGCGGGAGCTCCCGAGCCCGTGGTCCCTTCGCCAGGTACGAGGACTTCCTCAGCT
 GCGCCAGCTGCTACCAAGGACGAGGGGGAGGGCACTCTGGAGTTGGCTAAACAAGTGAGCAACCTTCC
 TCAGGCAAATTACAACCTGCTCAGATACATCTGCAAGTTTCTGGATGAAGTTCAGGCATACTCAAATGTC
 AACAAAGATGAGTGTCCAGAATCTGGCAACCGTTTTTGGACCTAACATTCTGCGGCCACAGGTAGAGGACC
 CAGTAACCATCATGGAAGGCACTTCCCTCGTCCAGCACCTGATGACCGTCTCATCCGAAAACACAGCCA
 GCTCTTACGGCACCGGTCCCGGAAGGGCCACCTCCCGCGCGGGGGCCTGCAATGCGCAGTGGGGTGG
 GGCTCCGAGGAGTACCAGGGACAGCCAAGGAGAGCCCGCGCGCCCGCTGCCCGCGCACAGGACCT
 CTTCCCTGGACGGGGCGGCCGTGGCGGTGCTCTCCAGAACAGCCCCACGGGGCCGGGAGCCGGTGCAG
 CCCTGGGAAGAAGGTGCAGACCTGCCAGTTGGAAGTCTCTTCCGGCAGCCGAGGTCCCTATCGGGA
 AGCCCCAAGGGGGCGGCTCATCCCTGGAGGTGCCATCATCTCTCCGGCGGAACTGGCTTATGAACG
 GGCTGTCTCCCTCGCGCGGACCCCGGGCCTCGTCGGGAGACCGGCTCAAGGACTCGGGCTCCGTGCA
 GAGACTCTCCACCTACGACAATGTGCCCGCGCCGGCCTGGTCCCGGCATACCCAGCGTGGCCAGTATG
 GCGTGGTCCGGGGCCTCGTCCAGCGAGTCTGGTGGGGGCTCACTCAGCAGCTGCACGGCCTGCCGCG
 CCAGCGACTCGTCTGCCCGCAGTTCCTGCACACCGACTGGGCCCTGGAGCCCTCCCGCTCCCCAGCAG
 CAGCGAGGACCCCAAGTCCCTGGACCTGGACCACAGCATGGACGAGGCGGGCGGGGTGCCAGCAACAGC
 GAGCCCAGCGAGCCGACAGCCCCACCCGGGAACAGCGCGCCGCTCCGAGGCCTTACAGGGGCTGGTCA
 CTGAGCTCAGGGCCGAGCTGTGCCGCCAGCGGACTGAGTACGAGAGGAGTGTGAAAAGAATCGAAGAAGG
 GAGTGTGACCTGAGAAAACGAATGTCCCGTTAGAAGAAGAACTGGACCAGGAAAAGAAAAATACATC
 ATGCTGGAATAAAGCTCGGAACTCTGAACGGGCGCGGAGGATGCGGAGAGGAGGAACAGCTGTTGC
 AGAGGGAAATGGAGGAGTTTTTTTCGACCTAGGAAGCTTGAAGTGGGGCAAAAGGTGCCAGGGCCCC
 AAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234554 representing NM_001256026
 Red=Cloning site Green=Tags(s)

MPFWPIRCLKRSRRMPRGGAGEREKVPANPEALLMASSQRDMEDWVQAIRRVIWAPLGGGIFGQRLEET
 VHHERYGPRLAPLLVEQCVDFIRERGLTEEGLFRMPGQANLVRDLQDSFDCGEKPLFDSTTDVHTVASL
 LKLYLRELPEPVVPFARYEDFLSQAQLLTKDEEGTLELAKQVSNLPQANYNLLRYICKFLDEVQAYSNV
 NKMSVQNLATVFGPNILRPQVEDPVTIMEGTSLVQHLMTVLIRKHSQFLTAPVPEGPTSPRGGLQCAVGW
 GSEEVTRDSQGEPPGGLPAHRTSSLDGAAVAVLSRTAPTGPSRCSPGKKVQTLPSWKSSFRQPRSLSG
 SPKGGGSSLEVPISSSGNWLMNGLSSLRGHRRASSGDRLKDSGSVQRLSTYDNPAPGLVPGIPSVASM
 AWSGASSESSVGGSLSSCTACRASDSSARSSLHTDWALEPSPLPSSSEDPKSLDLDHSMDEAGAGASNS
 EPSEPDSPTREHARRSEALQGLVTELRAELCRQREYERSVKRIIEGSADLRKMRSLREELDQEKKYYI
 MLEIKLRNSERAREDAERRNQLLQREMEEFFSTLGS�TVGAKGARAPK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001256026

ORF Size: 1824 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_001256026.2](#)

RefSeq Size: 2352 bp

RefSeq ORF: 1827 bp

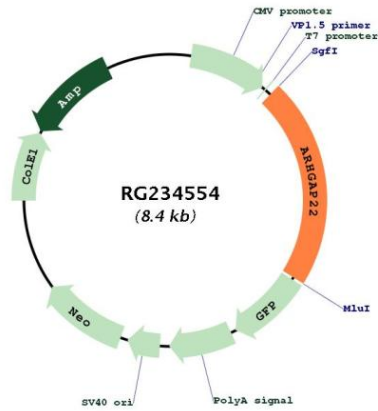
Locus ID: 58504

UniProt ID: [Q7Z5H3](#)

Cytogenetics: 10q11.22-q11.23

Gene Summary: This gene encodes a member of the GTPase activating protein family which activates a GTPase belonging to the RAS superfamily of small GTP-binding proteins. The encoded protein is insulin-responsive, is dependent on the kinase Akt and requires the Akt-dependent 14-3-3 binding protein which binds sequentially to two serine residues. The result of these interactions is regulation of cell motility. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RG234554