

## Product datasheet for **RC239254**

### Rho GTPase activating protein 24 (ARHGAP24) (NM\_001287805) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rho GTPase activating protein 24 (ARHGAP24) (NM_001287805) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rho GTPase activating protein 24
Synonyms:	FILGAP; p73; p73RhoGAP; RC-GAP72; RCGAP72
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC239254 representing NM\_001287805  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTTGTGCAAGGAGGCGATCGAGATCGGATGACAGCAATCATGAAAGCTACCTCCTCATGGCAAGCA  
 CCCAGAATGATATGGAAGACTGGGTGAAGTCAATCCGCCGAGTCATATGGGGACCTTTCGGAGGAGGCAT  
 TTTTGGACAGAACTGGAGGATACTGTTCTGTTATGAGAAGAGATATGGGAACCGTCTGGCTCCGATGTTG  
 GTGGAGCAGTGCCTGGACTTTATCCGACAAAGGGGCTGAAAGAAGAGGGTCTCTTTCGACTGCCAGGCC  
 AGGCTAATCTTGTTAAGGAGCTCCAAGATGCCTTTGACTGTGGGGAGAAGCCATCATTTGACAGCAACAC  
 AGATGTACACACGGTGGCATCACTTCTTAAGCTGTACCTCCGAGAACTCCAGAACCAGTTATTCCTTAT  
 GCGAAGTATGAAGATTTTTGTCATGTGCCAACTGCTCAGCAAGGAAGAGGAAGCAGGTGTTAAGGAAT  
 TAGCAAAGCAGGTGAAGAGTTTCCAGTGGTAAATTACAACCTCCTCAAGTATATTTGCAGATTCTTGG  
 TGAAGTACAGTCTACTCGGGAGTTAACAAAATGAGTGTGCAGAACTTGGCAACGGTCTTTGGTCTTAAT  
 ATCCTGCGCCCAAAGTGAAGATCCTTTGACTATCATGGAGGGCACTGTGGTGGTCCAGCAGTTGATGT  
 CAGTGATGATTAGCAAACATGATTGCCTCTTTCCCAAAGATGCAGAACTACAAAGCAAGCCCAAGATGG  
 AGTGAGCAACAACAATGAAATTCAGAAGAAAGCCACCATGGGGCAGTTACAGAACAAGGAGAACAATAAC  
 ACCAAGGACAGCCCTAGTAGGCAGTGTCTCTGGGACAAGTCTGAGTCACCCAGAGAAGCAGCATGAACA  
 ATGGATCCCCACAGCTCTATCAGGCAGCAAAACACAGCCCAAAGAACAGTGTTCACAAGCTAGATGT  
 GTCTAGAAGCCCCCTCTCATGGTCAAAAAGAACCAGCCTTTAATAAGGGTAGTGGGATAGTTACCAAT  
 GGGTCTTCAGCAGCAGTAAATGCAGAAGTCTTGAGAAAACCCAAACCACCCCAATGGGAGCCTACAGG  
 CCAGAAGGAGCTTCTCACTGAAGTATCTGGTACCAAAATGGGCACGCACAGTGTACAGAAATGGAACGGT  
 GCGCATGGGCATTTTGAACAGCGACACACTCGGGAAACCCACAAATGTTGAAACATGAGCTGGCTGCCA  
 AATGGCTATGTGACCCTGAGGGATAACAAGCAGAAAGAACAAGCTGGAGAGTTAGGCCAGCACAAACAGAC  
 TGTCCACCTATGATAATGTCCATCAACAGTTCTCCATGATGAACCTTGATGACAAGCAGAGCATTGACAG  
 TGCTACCTGGTCCACTTCTCTGTGAAATCTCCCTCCCTGAGAACTCCAACCTCTGTGCTCTTCTACC  
 ACCACCTGCCAGAGCAAGACTTTTTGGGGGAACTTTGAGGACCCTGTTTGGATGGGCCCCCGCAGG  
 ACGACCTTTCCACCCAGGGACTATGAAAGCAAAAGTGACCACAGGAGTGTGGGAGGTGCAAGTAGTCTG  
 TGCCACCAGTAGCAGTGACAACAGTGAACATTTGTGGGCAACAGCAGCAGCAACCACAGTGCCTGCAC  
 AGTTTAGTTTCCAGCCTGAAACAGGAAATGACCAACAGAAGATAGAGTATGAGTCCAGGATAAAGAGCT  
 TAGAACAGCGAAACTTGACTTTGGAAACAGAAATGATGAGCCTCCATGATGAACTGGATCAGGAGAGGAA  
 AAAGTTCACAATGATAGAAATAAAAATGCGAAATGCCGAGCGAGCAAAAGAAGATGCCGAGAAAAGAAAT  
 GACATGCTACAGAAAGAAATGGAGCAGTTTTTTCCACGTTTGGAGAAGTACAGTGGAAACCCAGGAGAA  
 CCGAGAGAGGAAACACAATATGGATTGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC239254 representing NM\_001287805  
Red=Cloning site Green=Tags(s)

MFVQGGDRDRMTANHESYLLMASTQNDMEDWVKSIRRVIWGPFGGGIFGQKLEDTVRYEKRYGNRLAPML  
 VEQCVDVFIQRGLKEEGLFRLPGQANLVKELQDAFDCGEKPSFDSNTDVHTVASLLKLYLRELPEPVIPY  
 AKYEDFLSCAKLLSKEEEAGVKELAKQVKSLPVVNYNLLKYICRFLDEVQSYSGVNKMSVQNLATVFGPN  
 ILRPKVEDPLTIMEGTVVVQQLMSVMIKHDCLFPKDAELQSKPQDGVSNNNEIQKKATMGQLQNKENNN  
 TKDPSRQCSWDKSESPQRSMMNNGSPTALSGSKTNSPKNSVHKLDVSRSPPLMVKKNPAFNKGGSGIVTN  
 GSFSSSNAEGLKTQTPNGSLQARRSSSLKVSGTKMGTHSVQNGTVRMGILNSDTLGNPTNVRNMSWLP  
 NGYVTLRDNKQKEQAGELGQHNRLSTYDNVHQQFSMMNLDDKQSIDSATWSTSSCEISLPENSNSCRSST  
 TTCPEQDFFGGNFEDPVLGDPPQDDLSHPRDYESKSDHRVSGGRSSRATSSSDNSETFVGNSSSNHSALH  
 SLVSSLKQEMTKQKIEYESRIKSLEQRNLLETEMMSLHDELQERKKFTMIEIKMRNAERAKEDAERKN  
 DMLQKEMEQQFFSTFGELTVEPRRTERGNTIWIQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001287805

**ORF Size:** 1989 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\\_001287805.2](#)

**RefSeq Size:** 4010 bp

**RefSeq ORF:** 1992 bp

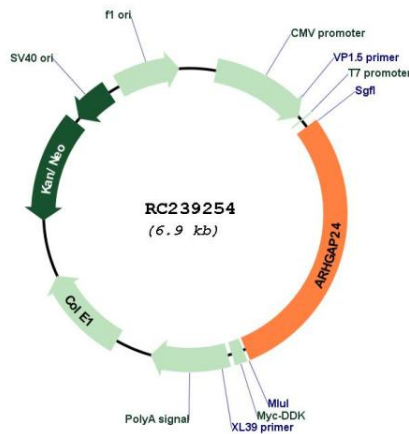
**Locus ID:** 83478

**Cytogenetics:** 4q21.23-q21.3

**MW:** 74.9 kDa

**Gene Summary:** This gene encodes a Rho-GTPase activating protein, which is specific for the small GTPase family member Rac. Binding of the encoded protein by filamin A targets it to sites of membrane protrusion, where it antagonizes Rac. This results in suppression of lamellae formation and promotion of retraction to regulate cell polarity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]

**Product images:**



Circular map for RC239254