

## Product datasheet for **SC126067**

### ARFGAP1 (NM\_175609) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | ARFGAP1 (NM_175609) Human Untagged Clone |
| Tag:                      | Tag Free                                 |
| Symbol:                   | ARFGAP1                                  |
| Synonyms:                 | ARF1GAP; HRIHFB2281                      |
| Mammalian Cell Selection: | None                                     |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>         |
| E. coli Selection:        | Ampicillin (100 ug/mL)                   |



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_175609 edited
CGGCCCTACCTCGGCCCTGGCCTGACCCCGCGGCCCTGCCCGCCCTCCCTCCAGCATC
ATGGCCAGCCCAAGAACCAGGAAGGTTCTTAAAGAAGTCAGGGTGCAGGATGAGAACAAC
GTTTGTGTTGAGTGTGGCGGTTCAATCCTCAGTGGGTGAGTGTGACCTACGGCATCTGG
ATCTGCCTGGAGTGCTCGGGGAGACACCGCGGGCTTGGGGTTACCTCAGCTTTGTGCGC
TCTGTTACTATGGACAAGTGAAGGACATTGAGCTTGAGAAGATGAAAGCTGGTGGGAAT
GCTAAGTCCGAGAGTTCCTGGAGTCTCAGGAGGATTACGATCCTTGTCTGGTCTTGACG
GAGAAGTACAACAGCAGAGCCGCGGCCCTTTAGGGATAAGGTGGTCGCTCTGGCCGAA
GGCAGAGAGTGGTCTCTGGAGTCATCACCTGCCAGAAGTGGACCCACCTCAGCCAGG
ACGCTGCCGTCCATGGTGCACCGAGTCTCTGGCCAGCCGACAGTGTGACCGCCTCTCG
GACAAGGCTTTTGAAGACTGGCTGAATGATGACCTCGGCTCCTATCAAGGGGCCAGGGG
AATCGCTACGTGGGGTTTGGGAACAGCCACCGCCTCAGAAGAAAGAAGATGACTTCCTC
AACACGCCATGTCTCCCTGTACTCGGGCTGGAGCAGCTTACCCTGGAGCCAGCCGG
TTTGCCTCGGCAGCCAAGGAGGGCGCTACAAAGTTTGGATCCCAAGCGAGTCAGAAGTTT
TGGGGTCAACAAGCAGCAGCCGGAGCCGGCTCCGAGCTGGGCCACAGCCTGAACGAGAAC
GTCTCAAGCCTGCGCAGGAGAAGGTGAAGGAGGAAAGATTTTTGATGATGTCTCCAGT
GGGGTCTCTCAGTTGGCGTCCAAGGGAGTGGTGTAGTAAGGGATGGCGGGACGTCACCACC
TTTTTTTCGGGAAAGCAGAGGGGCCCTTGGACAGCCCTCGGAGGGCCACAGTTATCAG
AACAGCGGTCTGGACCACTTCCAAAACAGCAACATAGACCAGAGCTTCTGGGAGACCTTT
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GACACCTCCACCGAGAGGAGGAGCTCGGACAGCTGGGAGGTGTGGGGCTCGGCCCTCACC
AACAGGAACAGCAACAGCGACGGCGGGGAGGGCGGGGAGGGCACCAGAAGGCAGTGCCG
CCGGCCGTGCCACTGATGATGGCTGGGACAACCAGAAGTGGTAGGGCCACTGCGCCCC
CGTCCCCAGCGCCCCGGGCGACTTCGTGTTTGCCTCTGCCCTCGTCGTTCTCTCCTCT
TCCATTTGACCCAAGAATCAGCAACTGCAGTGTGAGGACAGCGTCTCGGGAGGCAGGACC
CTAGGGAGACCCGGGTGTGCGCCGCTGCGCGTGGGGAGTCTTCGGTGCCTGGGGCGGC
TTGCTGTCCAGCCTGTGTGGGGCCGTCCTCCACACTCCCCTGGGCATTCTTGGACT
CAAGGCCGGGCTCTGCGTGGCTTGTGGGAGGTGGGCTGCAGCACAGAGGCTGTGACT
GCGTTCACAGCGCCAGTTCACACGAGTATCTCTGGGGCTGGGACCAGCCACGTGCCG
AGCTGTCAGCGAGCTGAGGTGTCCCTTCTCGTTGAGATATTTAACTTTGGTTTTGCTCTA
GTTCTTTCTTTTTGAAGAGAGTACTGGAGTGGTAAAGATGGAATGCTGAAATGATAC
TGGCGCTCACGCTGCCATCCGACCACCCTCGGCTCCCGAGTCCACGCCTGCCTGGCCCTG
TGCTGTACAGACCCGCGTGGTGCCTAACCCTCTGTGGCTCCCCTGCATCAGCACCGTCCCA
CCACCAAGTTCACCAGGTTACCAGACACGGCCTCCACAATAGCCACACCACACCTGAG
CTGTTCTCAGTGTGAACTTGACCATCCTGGAACACCCTGGAAGAAAAAGGAGCGCAGG
GTGGGCCCTCGGCCCTGATGCAGGAGGGTGCATAGCGGACGTGGCCAGGCAGGAGGGGC
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GCCCCAGGATGGGGCTGCCCTGCACACCGGTGCCGCCACATGCCAACCTCACCTCCCC
GAGGACTGGATGATGTGCTGCCACGTGTGACTCGTCTCCCTTGTCTGCCCTGTGTGACCC
TCAGTCTTGGCCAGCCATGCATGCGCCGAAGCTCGTGCAGTTTGTACGTGAGGTGCTCT
CCTCCCTGCCACCATGCTCATCACTCTGGCCTTGCCATGCTCCCTGGTACCCCACTTC
CCGGTTCGCGTCTGCAGCACTCCTGGAGCAGCCTGGGCCCTTACGCCCTGTGCTCGTCC
CACCTAGGGACTCAGCCACTTGCAGAATAGGATGGGACCAGATTTTACGCGAGCCCTCC
TGGCGCCCGTCTCCCTGTGGCACCAGCCCTTTGGTAGCTGGTGTGGAGGGCCGGTGT
TCCTTGGTGCACCGGAGGATTTGATCACCGAAGCAGCCACCTGCTGTAGTTGGACCTG
AGGTGAGAGCGGGGCATCAGAGGCTCAAGGTGCTGAGAAGCCACCGGAAAGCAGCCAG
CACAAAGGGCCCAGGAAGCCAGCCCCGAGAGCTGAGCGTGGGGTCTTTGAGTGTCTTT
CTCCAAGCTGAGACGT
    
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|-------------------------------------|--|
| <b>5' Read Nucleotide Sequence:</b> | >OriGene 5' read for NM_175609 unedited<br>GTTAGGATTTGTAATACGACTTCTACTATAGGGCGGACCGGATTCANATCTGGTACCGG<br>TCCGGAATTCCTGGGATCGGCCCTACCTGGGCCCTGGCCTGACCCCGGGCCCTGCCCG<br>CCCCTCCCTCCAGCATCATGGCCAGCCCAAGAACCAGGAAGGTTCTTAAAGAAGTCAGGG<br>TGCAGGATGAGAACAAACGTTTGTGGTGTGGCGGTTCAATCCTCAGTGGGTGAGT<br>TGACCTACGGCATCTGGATCTGCCTGGAGTGTCTGGGGAGACACCGGGGCTTGGGGTTC<br>ACCTCAGCTTTGTGCGCTCTGTTACTATGGACAAGTGGAAAGGACATTGAGCTTGAGAAGA<br>TGAAAGCTGGTGGGAATGCTAAGTTCCGAGAGTTCCTGGAGTCTCAGGAGGATTACGATC<br>CTTGCTGGTCTTGCAGGAGAAGTACAACAGCAGAGCCGCGGCCCTTTAGGGATAAGG<br>TGGTCGCTCTGGCCGAAGGCAGAGAGTGGTCTCTGGAGTCATCACCTGCCCAGAAGTGG<br>CCCCACCTCAGCCAGGACGCTGCCGTCCATGGTGCACCGAGTCTCTGGCCAGCCGAG<br>GTGTGACCGCCTCTCGGACAAGGCTTTGAAGACTGGCTGAATGATGACCTCGGCTCCT<br>ATCAAGGGGCCAGGGGAATCGCTACGTGGGGTTGGGACACGCCACCGCCTCAGAAGAA<br>GGAGATGACTTCCCAACAACGCCATGTCTCCCTGACTCGGGCTGNAGCAGCTTTACC<br>ACTGGAGCCAGCCGGTTGCTCGGCAGCAAGGAGGGCGCTACAAGTTGGATCCCAGC<br>GAGTCCACAGTTTTGGGGTACAAGCACAACCCGAGCCGGCGTCCAAGTGGCCCAACCTG<br>GACGAGACGCTCCTCAGCTGGCCAGAGAGGGG |
| <b>Restriction Sites:</b>           | Please inquire   |
| <b>ACCN:</b>                        | NM_175609  |
| <b>OTI Disclaimer:</b>              | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).   |
| <b>Components:</b>                  | 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).   |
| <b>Reconstitution Method:</b>       | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>  |
| <b>RefSeq:</b>                      | <u><a href="#">NM_175609.1</a></u> , <u><a href="#">NP_783202.1</a></u>  |
| <b>RefSeq Size:</b>                 | 3274 bp  |
| <b>RefSeq ORF:</b>                  | 1245 bp  |
| <b>Locus ID:</b>                    | 55738  |
| <b>UniProt ID:</b>                  | <u><a href="#">Q8N6T3</a></u>  |
| <b>Cytogenetics:</b>                | 20q13.33   |
| <b>Protein Pathways:</b>            | Endocytosis  |

**Gene Summary:**

The protein encoded by this gene is a GTPase-activating protein, which associates with the Golgi apparatus and which interacts with ADP-ribosylation factor 1. The encoded protein promotes hydrolysis of ADP-ribosylation factor 1-bound GTP and is required for the dissociation of coat proteins from Golgi-derived membranes and vesicles. Dissociation of the coat proteins is required for the fusion of these vesicles with target compartments. The activity of this protein is stimulated by phosphoinositides and inhibited by phosphatidylcholine. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Transcript Variant: This variant (2) encodes the longest isoform (b).