

## Product datasheet for SC110523

### ARFGAP1 (NM\_018209) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARFGAP1 (NM_018209) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARFGAP1
Synonyms:	ARF1GAP; HRIHFB2281
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110523 sequence for NM_018209 edited (data generated by NextGen Sequencing)

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ATGGCCAGCCCAAGAACCAGGAAGTTCTTAAAGAAGTCAGGGTGCAGGATGAGAACAAC
GTTTGTGTTTGTAGTGTGGCGGTTCAATCCTCAGTGGGTGACGTGTGACCTACGGCATCTGG
ATCTGCCTGGAGTGCTCGGGGAGACACCGCGGCTTGGGGTTACCTCAGCTTTGTGCGC
TCTGTTACTATGGACAAGTGAAGGACATTGAGCTTGAGAAGATGAAAGCTGGTGGGAAT
GCTAAGTTCGAGAGTTCCTGGAGTCTCAGGAGGATTACGATCCTTGCTGGTCTTGCGAG
GAGAAGTACAACAGCAGAGCCGCGGCCCTTTTAGGGATAAGGTGGTTCGCTCTGGCCGAA
GGCAGAGAGTGGTCTCTGGAGTCATCACCTGCCAGAAGTGGACCCACCTCAGCCCAGG
ACGCTGCCGTCCATGGTGCACCGAGTCTCTGGCCAGCCGAGAGTGTGACCGCTCCTCG
GACAAGGCTTTTGAAGACTGGCTGAATGATGACCTCGGCTCCTATCAAGGGGCCAGGGG
AATCGCTACGTGGGGTTTGGGAACACGCCACCGCCTCAGAAGAAAGAAGTGAATTCCTC
AACACGCGCATGTCCCTGTACTCGGGCTGGAGCAGCTTACCCTGGAGCCAGCCGG
TTTGCCTCGGCAGCCAAGGAGGGCGCTACAAAGTTTGGATCCCAAGCGAGTCAAGAGCGG
TCCGAGCTGGGCCACAGCCTGAACGAGAAGCTCCTCAAGCCTGCGCAGGAGAAGGTGAAG
GAGGGAAGATTTTTGATGATGTCTCCAGTGGGGTCTCTCAGTTGGCGTCCAAGTCCAG
GGAGTCGGTAGTAAGGGATGGCGGGACGTACCCACCTTTTTTTCGGGAAAGCAGAGGGC
CCCTTGGACAGCCCTCGGAGGGCCACAGTTATCAGAACAGCGGTCTGGACCACTCCAA
AACAGCAACATAGACCAGAGCTTCTGGGAGACCTTTGGAAGTGTGAGCCCAAGAC
CGCAAGTCCCGAGCAGCAGCTGGACGTGGCGCGGACACCTCCACCGAGAGGAGGAGC
TCGGACAGCTGGGAGGTGTGGGCTCGGCCTCCCAACAGGAACAGCAACAGCGACGGC
GGGGAGGGCGGGAGGGACCAAGAAGGCAGTGGCCGCGCCGTGCCACTGATGATGGC
TGGGACAACCAGAACTGGTAG

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Clone variation with respect to NM\_018209.2



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_018209 unedited            NCATTTACCCGCCGTTGNCGCATTGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAA            GCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCG            CGAATTCGGCAGCAGGGGGGCGACCCGGGCGCATCCTCATTGCAGTGCGGCGGCCCTACCTC            GGCCCTGGCCTGACCCCGGGCGCCCTGCCCGCCCTCCCTCCAGCATCATGGCCAGCCCA            AGAACCAGGAAGTTCTTAAAGAAGTCAGGGTGCAGGATGAGAACAACGTTTGTGTTTGGAG            TGTGGCGGTTCAATCCTCAGTGGGTGAGTGTGACCTACGGCATCTGGATCTGCCTGGAG            TGCTCGGGGAGACACCGCGGGCTTGGGGTTCACCTCAGCTTTGTGCGCTCTGTTACTATG            GACAAGTGAAGGACATTGAGCTTGAGAAGATGAAAGCTGGTGGGAATGCTAAGTTCCGA            GAGTTCCTGGAGTCTCAGGAGGATTACGATCCTTGCTGGTCTTGCAGGAGAAGTACAAC            AGCAGAGCCGCGGCCCTCTTAGGGATAAGGTGGTTCGCTCTGGCCGAAGGCAGAGAGTGG            TCTCTGGAGTCATCACCTGCCAGAACTGGACCCACCTCAGCCCAGGACGCTGCCGTCC            ATGGTGCACCGAGTCTCTGGCCAGCCGAGAGTGTGACCCCTCCTCGGACAGGCTTTTG            AAGACTGGCTGAATGATGACCTCGGCTCCTATCAAGGGGCCAGNGGAATCGCTACGTGG            GGGNTTGGNGAACACGCCACCGCCTCAGAAGAAAGAAGATGACTTNCTCAACACGCCATG            TCCTCCTGTACTCGNCTGGNAGCAGCTCCCACTGGAGCCCAGCCGGNTTGCTCGCAGC            CAGGNAGGCGCTACAAAGTTGGATCCCAGCGATA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_018209 unedited            CGGACCATAGNGATGGCAACTTCCAGGNCCAGNAAAGCACTGGGGNAGGGGTACAGGG            NATGCCACCCGGGATCTGTTCCAGAAAAGCTATGACCCGCGCCGAATCTAGAGTCGAGT            TTTTTTTTTTTTTTTTGCATGTTCCCGTTTGCTTTATTGGAATGCTGTCAGGTCGCGC            CTTCCACCTGGGCCCTCACACACAGCAAGGAGAGGCCCCAGCACCCGGTCCCAGGCCACC            TGCCCGCACCTGCAGAAGGGAAAGGCCATCANCCCTTCCGTGGACGGGGTCTCGGCCACC            ACATCCACCTTCTGAAGGTGGCCAGACACCTCCACGCTGCTGACTGCACTTCCCATCAA            AAGGGACTCCCTGGGGCAGAGTGGGCCGTCCCCCTACCCCGAGGAAGGCACCCTCCTGG            GCGGGGACAGACCTTGGCTCCATGCTGCCAAGTCAAGGTGCTGGCGTGGAAACAGGCACA            TGTGGAACACCACATCCCACTGTCCAAGTGGAGTCCACCCCTCCTCGGAGCACTCAGCC            CACCAGGTCCAAGCAGCCCTCGGGAGATACCACGCGGCCGCCACGCTCAGCTTGGAG            AAAGACTCTCAAAGACCCCCACGCTCAGCTCTCGGGGGCTGGCTTCTCGGGCCCTTTGTG            CTGGCTGCTTTCCCGGTGGCTTCTCAGCACCTTGAGCCTCTGATGCCCGCCTCTGACT            CAGGTCCAATACTACAGCAGGTGGCTGCTTCGGTGATCAAATCCCTCCGTGGCAGCCAAAGA            CACCGGGCCCTCCACACCAGCTACCAAGAGGGCTGGTGGCCACAGGGAGGACCGGNCGC            CAGNAGGGCTCGCTGAAATCTTCGTCATCCTGGTCTGGCAGTGGCTGAATCCCTAGG            TGGGAC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_018209
<b>Insert Size:</b>	2900 bp
<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).

**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\\_018209.2](#), [NP\\_060679.1](#)

**RefSeq Size:** 3250 bp

**RefSeq ORF:** 1221 bp

**Locus ID:** 55738

**UniProt ID:** [Q8N6T3](#)

**Cytogenetics:** 20q13.33

**Domains:** ArfGap

**Protein Pathways:** 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 (1) lacks an in-frame exon and uses an alternate in-frame splice site in the 3' coding region, compared to variant 2. The encoded isoform (a) is shorter, compared to isoform b.