

Product datasheet for **SC114939**

ARFGAP3 (NM_014570) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARFGAP3 (NM_014570) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARFGAP3
Synonyms:	ARFGAP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC114939 sequence for NM_014570 edited (data generated by NextGen Sequencing)

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ATGGGGGACCCCAGCAAGCAGGACATCTTGACCATCTTCAAGCGCCTCCGCTCGGTGCC
ACTAACAAGGTGTGTTTTGATTGTGGTGCCAAAAATCCCAGCTGGGCAAGCATAACCTAT
GGAGTGTTCCTTTGCATTGATTGCTCAGGTCCCACCGGTCACCTGGTGTCACTTGAGT
TTTATTCGATCTACAGATTGGATTCCAACCTGGTCATGGTTTCAGTTGCGATGCATGCAA
GTCCGAGGAAACGCTAGTGCATCTTCTTTTTTTCATCAACATGGGTGTTCCACCAATGAC
ACCAATGCCAAGTACAACAGTCGTGCTGCTCAGCTCTATAGGGAGAAAATCAAATCGCTC
GCCTCTCAAGCAACACGGAAGCATGGCACTGATCTGTGGCTTGATAGTTGTGTGGTTCCA
CCTTTGTCCCCTCCACCAAAGGAGGAAGATTTTTTGCCTCTCACGTTTCTCCTGAGGTG
AGTGACACAGCGTGGGCATCAGCAATAGCAGAACCATCTTCTTTAACATCAAGGCCTGTG
GAAACCACTTTGGAAAATAATGAAGGTGGACAAGGCAAGGACCAAGTGTGGAAGGTCTT
AATGTACCAACAAAGGCTACTTTAGAGGTATCCTCTATCATAAAAAAGAAACCAATCAA
GCTAAAAAGGCCTTGGGGCCAAAAAGGAAGTTGGGAGCTCAGAACTGGCAAACACA
TGCTTTAATGAAATTGAAAAACAAGCTCAAGCTCGGATAAAATGAAGGAGCAGGAAGAC
CTGGCCAAAGTGGTATCTAAAGAAGAATCAATTGTTTCATCATTACGATTAGCCTATAAG
GATCTTGAATTCAAATGAAGAAAGACGAAAAGATGAACATTAGTGGCAAAAAAATGTT
GACTCAGACAGACTCGGCATGGGATTTGGAAATTCAGAGAAGTGTATTTACATTCAGTG
ACTTCAGATATGCAGACCATAGAGCAGGAATCACCCATTATGGCAAAACCAAGAAAAAG
TATAATGATGACAGTGACGATTCATATTTACTTCCAGCTCAAGTTACTTTGACGAGCCA
GTGGAGTTAAGGAGCAGTTCTTCTCTAGCTGGGATGACAGTTGAGATTCCTATTGGAAA
AAAGAGACCAGCAAAGATACTGAAACAGTTCTGAAAACCAAGGCTATTCCAGACAGACCT
ACTGCTCGCCCAAGCCAGATTATGAGCCAGTTGAAAATACAGATGAGGCCAGAAAGAAG
TTTGGCAATGTCAAGGCCATTTTCATCAGATATGTATTTTGGAAAGACAATCCCAGGCTGAT
TATGAGACCAGGGCCCGCTAGAGAGGCTGTCCGCAAGTTCTCCATAAGCTCGGCTGAT
CTGTTTCGAGGAGCCGAGGAAGCAGCCAGGGAACACTACAGCCTGTCCAGTGTGCTGCC
AACGCCCCGACATGGCGCAGTTCAAGCAGGGAGTGAGATCGGTTGCTGGAAAACCTCC
GTCTTTGCTAATGGAGTCGTGACTTCAATTCAGGATCGCTACGGTTCTTAA
    
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Clone variation with respect to NM_014570.4

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_014570 unedited
TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCTCGTGCCGAATTCGGC
ACGAGGCTGTGAGGGCGGTAGCCGCTTTTCGTGACTCTTACCGGTTGGCTGGCCAGCT
GCGCCGCGGCTCACAGCTGACGATGGGGGACCCAGCAAGCAGGACATCTTGACCATCTT
CAAGCGCCTCCGCTCGGTGCCACTAACAAGGTGTGTTTTGATTGTGGTGCCAAAAATCC
CAGCTGGGCAAGCATAACCTATGGAGTGTCTTTGCAATTGATTGCTCAGGGTCCCACCG
GTCACTTGGTGTTCACCTTGAGTTTTATTTCGATCTACAGAGTTGGATTCCAACCTGGTCATG
GTTTCAGTTGCGATGCATGCAAGTCGGAGGAAACGCTAGTGCATCTTCTTTTTTTCATCA
ACATGGGTGTTCCACCAATGACACCAATGCCAAGTACAACAGTCGTGCTGCTCAGCTCTA
TAGGGAGAAAAATCAAATCGCTCGCTCTCAAGCAACACGGAAGCATGGCACTGATCTGTG
GCTTGATAGTTGTGTGGTTCCACCTTTGTCCCCTCCACCAAAGGAGGAAGATTTTTTGC
CTCTCACGTTTCTCCTGAGGTGAGTGACACAGCGTGGGCATCAGCAATAGCAGAACCATC
TTCTTTACATCAAGGCCTGTGGAACCACTTTGAAAATAATGAAGGTGGACAAAGAGCA
GGACCAAGTGTGGAAGGTCTTAATGTACCAACANAGGCTACTNTAGAGGTATCCTCTATC
ATAAAAAAGAACCAATCAGCTAAAAAGGCCTTGGGCCAAAAAGGAAAGTTGGAGCTCAG
AACTGGCAACACATGCCTAATGAATTGAAAACANGCTCAGCTCGGATAAATGAANGAG
CAGAGACTGNCCAGGTGGTATCTAAGAAAC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014570 unedited GGCGCAGGCGNGNNGNCCCTCACCCAGATTTGCCGTGTTTTCTTTTATAATCTCAA ATTNGACTTTTAAAAACATCACAAAATTTTCATTCAAAACCACATTTTTGGCTTATCAA TTTCAAATATATTTACTGTGCNTGAACAATATATTCTAATGCTGTCTAAAACACAGCTA AATTATTTTTCTTATTTGTTTATACACATTCGGTAATTTCTGAAAAGCAAGATTTAAAA ATATTTATTAACAAAACACTACCAATTACAATGACTGTTCTCCATACACGCAACTATTTT CTGTAGCTGTATCTTACCTCATTCCACTTTAACTCTGTATACCGTATTGATTTGTGA TGAGATGATTTATTATGAGAACTCTTAGGGAGTTCTCATCTTCCATTTCTCATCAATTCA AACAGCAACACCTTTACAAAGATAACATTAATTCCTTGGCAGGGCAGAAGCTTAAGTTT GTTAAAAGCACTCACTGAAAAACATTTTTAAATTTATAGGTCATATAAAAATATTACAA AGAGACAGATGACTTCAAATATTATTTGGCAGTCACCTTACTATGTAGAAACATAAATGA AGCAATCTGTCACACGAGACACCAGTCACTTTTGGTCTTTGAAGGAAGTGTGTGTGGTG AGTGTGTTTCTGCAGGCCCATCCAGCATTGCTGATTCTGGCAGCCCTGAGCCCATGTG TCACATGGAGACCTCTTCTTCTCCACATGAAGCCTCTGGTCAAGAGCANGAGGAG CCCGAGTCTCCAGGCCCTCATGTTGAAATCAAAGTTCCAGGAAATAAACCAGGATTTCCC GAAGCGCCAAGAAGGTGTGACAGGAAGAACGTGAACCAATTCACAGAAAGCTCCTACTC AAACTCAAATTTTCAAAGAAATTTAAA
Restriction Sites:	NotI-NotI
ACCN:	NM_014570
Insert Size:	2910 bp
OTI Disclaimer:	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).
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:	<u>NM_014570.3</u> , <u>NP_055385.2</u>
RefSeq Size:	2725 bp
RefSeq ORF:	1551 bp
Locus ID:	26286
UniProt ID:	<u>Q9NP61</u>
Cytogenetics:	22q13.2
Domains:	ArfGap

Protein Pathways: Endocytosis

Gene Summary: The protein encoded by this gene is a GTPase-activating protein (GAP) that associates with the Golgi apparatus and regulates the early secretory pathway of proteins. The encoded protein promotes hydrolysis of ADP-ribosylation factor 1 (ARF1)-bound GTP, which is required for the dissociation of coat proteins from Golgi-derived membranes and vesicles. Dissociation of the coat proteins is a prerequisite for the fusion of these vesicles with target compartments. The activity of this protein is sensitive to phospholipids. Multiple transcript variants encoding different isoforms have been found for this gene. This gene was originally known as ARFGAP1, but that is now the name of a related but different gene. [provided by RefSeq, Nov 2008]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer protein (isoform 1).