

## Product datasheet for **RC202392**

### ARFGAP3 (NM\_014570) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARFGAP3 (NM_014570) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARFGAP3
Synonyms:	ARFGAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC202392 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGGGACCCAGCAAGCAGGACATCTTGACCATCTTCAAGCGCCTCCGCTCGGTGCCACTAACAAAGG  
 TGTGTTTTGATTGGTGCACAAAATCCCAGCTGGGCAAGCATAACCTATGGAGTGTTCCTTTGCATTGA  
 TTGCTCAGGGTCCACCGGTCACTTGGTGTCACTTGAGTTTTATTTCGATCTACAGAGTTGGATTCCAAC  
 TGGTCATGGTTTTAGTTGCGATGCATGCAAGTCGGAGGAAACGCTAGTGCATCTTCCTTTTTTCATCAAC  
 ATGGGTGTTCCACCAATGACACCAATGCCAAGTACAACAGTCGTGCTGCTCAGCTCTATAGGGAGAAAAT  
 CAAATCGCTCGCCTCTCAAGCAACACGGAAGCATGGCACTGATCTGTGGCTTGATAGTTGTGTGGTTCCA  
 CCTTTGCCCCCTCCACAAAGGAGGAAGATTTTTTGCCTCTCACGTTTCTCCTGAGGTGAGTGACACAG  
 CGTGGGCATCAGCAATAGCAGAACCATCTCTTAAACATCAAGGCCTGTGAAACCCTTTGGAAAAATAA  
 TGAAGGTGGACAAGAGCAAGGACCAAGTGTGGAAGGTCTTAATGTACCAACAAAGGCTACTTTAGAGGTA  
 TCCTCTATCATAAAAAAGAAACCAATCAAGCTAAAAAGGCCTTGGGGCCAAAAAGGAAGTTGGGGAG  
 CTCAGAAACTGGCAAAACACATGCTTTAATGAAATTGAAAAACAAGCTCAAGCTGCGGATAAAATGAAGGA  
 GCAGGAAGACCTGGCCAAGGTGGTATCTAAAGAAGAATCAATTGTTTCATCATTACGATTAGCCTATAAG  
 GATCTTGAATTCAAATGAAGAAAGACGAAAAGATGAACATTAGTGGCAAAAAAATGTTGACTCAGACA  
 GACTCGGCATGGGATTTGGAAATTCAGAAAGTGTATTTCACATTCAGTGACTTCAGATATGCAGACCAT  
 AGAGCAGGAATCACCCATTATGGCAAAACCAAGAAAAAGTATAATGATGACAGTGACGATTCAATTTT  
 ACTTCCAGCTCAAGGTACTTTGACGAGCCAGTGGAGTTAAGGAGCAGTTCTTTCTCTAGCTGGGATGACA  
 GTTCAGATTCTATTGGAAAAAGAGACCAAGCAAGATACTGAAACAGTCTGAAAAACACAGGCTATTC  
 AGACAGACCTACTGCTCGCCGCAAGCCAGATTATGAGCCAGTTGAAAATACAGATGAGGCCCAGAAGAAG  
 TTTGGCAATGTCAAGGCCATTTTCATCAGATATGATTTTGGAAAGACAATCCAGGCTGATTATGAGACCA  
 GGGCCCGCTAGAGAGGCTGTCAGCAAGTCTCCATAAGCTCGGCTGATCTGTTGAGGAGCCGAGGAA  
 GCAGCCAGCAGGAACTACAGCCTGTCCAGCGTCTGCCAACGCCCCCGACATGGCGCAGTTCAAGCAG  
 GGAGTGAGATCGGTTGCTGGAAACTCTCCGTCTTGGCTAATGGAGTCGTGACTTCAATTCAGGATCGCT  
 ACGTTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC202392 protein sequence  
 Red=Cloning site Green=Tags(s)

MGDPSKQDILTIKRLRSVPTNKVCFDCGAKNPSWASITYGVFLCIDCSGSHRSLGVHLSFIRSTELDSN  
 WSWFQLRCMQVGNASASSFFHQHCSTNDTNAKYNSRAAQLYREIKSLASQATRKHGTDLWLDSCVVP  
 PLSPPPKEEDFFASHVSPEVSDTAWASAIAPSSLSRPVETTLENNEGGQEQGPSVEGLNVPTKATLEV  
 SSIKKKPNQAKKGLGAKKGSLSLGAQKLANTCFNEIEKQAADKMQEDLAKVVSKEESIVSSRLAYK  
 DLEIQMKKDEKMNI SGKKNVSDRLGMFGNCRSVISHSVTSDMQTIEQESPIMAKPRKYNDDSDSYF  
 TSSSRYPDEPVELRSSFSSWDDSDSYWKKETSKDTETVLKTTGYSRPTARRKPDYEPVENTDEAQKK  
 FGNVKAISSDMYFGRQSQADYETRARLERLSASSISSADLFEPRKQPAGNYSLSSVLPNAPDMAQFKQ  
 GVRVAGKLSVFANGVVTISIQDRYGS

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

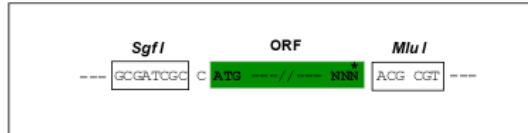
[https://cdn.origene.com/chromatograms/mk6278\\_b01.zip](https://cdn.origene.com/chromatograms/mk6278_b01.zip)

**Restriction Sites:**

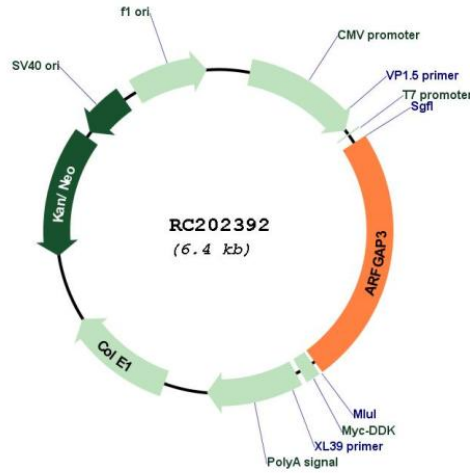
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:

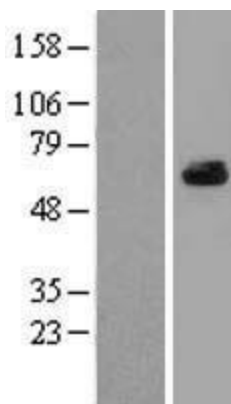


\* The last codon before the Stop codon of the ORF

**Plasmid Map:**

**ACCN:**

NM\_014570

<b>ORF Size:</b>	1548 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_014570.2</a>
<b>RefSeq Size:</b>	2851 bp
<b>RefSeq ORF:</b>	1551 bp
<b>Locus ID:</b>	26286
<b>UniProt ID:</b>	<a href="#">Q9NP61</a>
<b>Cytogenetics:</b>	22q13.2
<b>Domains:</b>	ArfGap
<b>Protein Pathways:</b>	Endocytosis
<b>MW:</b>	57 kDa
<b>Gene Summary:</b>	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]

**Product images:**

Western blot validation of overexpression lysate (Cat# [LY415207]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202392 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ARFGAP3 protein (Cat# [TP302392]). The protein was produced from HEK293T cells transfected with ARFGAP3 cDNA clone (Cat# RC202392) using MegaTran 2.0 (Cat# [TT210002]).