

Product datasheet for **RG227070**

ARFGAP3 (NM_001142293) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ARFGAP3 (NM_001142293) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | ARFGAP3 |
| Synonyms: | ARFGAP1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG227070 representing NM_001142293
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGGACCCAGCAAGCAGGACATCTTGACCATCTTCAAGCGCCTCCGCTCGGTGCCACTAACAAAGG
 TGTGTTTTGATTGTTGGTCCAAAAATCCCAGCTGGCAAGCATAACCTATGGAGTGTTCCTTTGCATTGA
 TTGCTCAGGGTCCCACCGGTCACTTGGTGTCACTTGAGTTTTATTTCGATCTACAGAGTTGGATTCCAAC
 TGGTCATGGTTTTAGTTGCGATGCATGCAAGTCGGAGGAAACGCTAGTGCCTGTGGCTTGATAGTTGTG
 TGGTTCCACCTTTGTCCCTCCACCAAAGGAGGAAGATTTTTTGCCTCTCACGTTTCTCCTGAGGTGAG
 TGACACAGCGTGGGCATCAGCAATAGCAGAACCATCTTCTTAAACATCAAGGCCTGTGGAACCCTTTG
 GAAAAAATGAAGGTGGACAAGAGCAAGGACCAAGTGTGGAAGGTCTTAATGTACCAACAAAGGCTACTT
 TAGAGGTATCCTCTATCATAAAAAAGAAACCAATCAAGCTAAAAAGGCCTTGGGGCCAAAAAGGAAG
 TTTGGGAGCTCAGAACTGGCAACACATGCTTTAATGAAATTGAAAAACAAGCTCAAGTCGCGGATAAA
 ATGAAGGAGCAGGAAGACCTGGCCAAGTGGTATCTAAAGAAGAATCAATTGTTTCATCATTACGATTAG
 CCTATAAGGATCTTGAATTCAAATGAAGAAAGACGAAAAGATGAACATTAGTGGCAAAAAAATGTTGA
 CTCAGACAGACTCGGCATGGGATTTGAAATTCAGAAAGTGTATTTTACATTCACTGACTTCAGATATG
 CAGACCATAGAGCAGGAATCACCCATTATGGCAAAACCAAGAAAAAGTATAATGATGACAGTGACGATT
 CATATTTTACTTCCAGCTCAAGTTACTTTGACGAGCCAGTGGAGTTAAGGAGCAGTTCTTTCTCTAGCTG
 GGATGACAGTTTCCAGATTCCTATTGGAAAAAGAGACCAGCAAAGATACTGAAACAGTTCTGAAAACCACA
 GGCTATTCAGACAGACCTACTGCTCGCCGCAAGCCAGATTATGAGCCAGTTGAAAATACAGATGAGGCCC
 AGAAGAAGTTTGGCAATGTCAAGGCCATTTTCATCAGATATGATTTTGGAAAGACAATCCCAGGCTGATTA
 TGAGACCAGGGCCCGCTAGAGAGGCTGTGGCAAGTTCCTCCATAAGCTCGGCTGATCTGTTTCGAGGAG
 CCGAGGAAGCAGCCAGCAGGGAACACAGCCTGTCCAGTGTGCTGCCAACGCCCCCGACATGGCGCAGT
 TCAAGCAGGGAGTGAATCGGTTGCTGGAAAACCTCCGCTCTTGTCTAATGGAGTCGTGACTTCAATTCA
 GGATCGCTACGGTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG227070 representing NM_001142293
 Red=Cloning site Green=Tags(s)

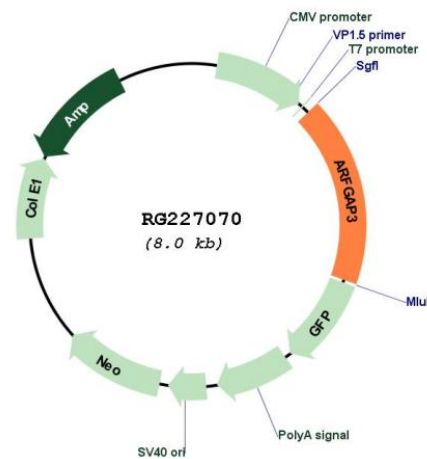
MGDPSKQDILTIKRLRSVPTNKVCFDCGAKNPSWASITYGVFLCIDCSGSHRSLGVHLSFIRSTELDSN
 WSWFQLRCMQVGGNASALWLDSCVVPPLSPPPKEEDFFASHVSPEVSDTAWASIAEPSSLSRPVETTL
 ENNEGGQEQGPSVEGLNVPTKATLEVSSIIKKKPNQAKKGLGAKKGSLSLGAQKLANTCFNEIEKQAQADK
 MKEQEDLAKVVSKEESIVSSLRLAYKDLEIQMKKDEKMNISGKKNVDSRDLGMFGNCRSVISHSVTSDM
 QTIEQESPIMAKPRKKYNDSDSYFTSSSYFDEPVELRSSSFSSWDDSSDSYWKKETSKDTETVLKTT
 GYSRPTARRKPDYEPVENTDEAQKFGNVKAISSDMYFGRQSQADYETRARLERLSASSSISADLFEE
 PRKQPAGNYSLSSVLPNAPDMAQFKQGVRSVAGKLSVFANGVVTSIQDRYGS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001142293

ORF Size: 1416 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_001142293.2](#)

RefSeq Size: 2719 bp

RefSeq ORF: 1419 bp

Locus ID: 26286

UniProt ID: [Q9NP61](#)

Cytogenetics: 22q13.2

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]