

Product datasheet for **RR205980**

Arfgap3 (NM_001044273) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arfgap3 (NM_001044273) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arfgap3
Synonyms:	MGC116119
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR205980 representing NM_001044273
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGGACCCAGCAAGCAGGACATCCTGGCCATCTTCAAGCGCCTGCGCTCGGTGCCACTAACAAAGG
 TGTGTTTTGACTGTGGTGCCAAAAATCCCAGCTGGGCAAGCATAAGCTATGGGGTGTCTCTGCATTGA
 CTGCTCCGGATCACATCGGTGCTTGGGGTCCACTTGAGTTTTATTTCGGTCCACAGAAGTGGATTCTAAC
 TGGTCTGGTTCAGCTTCGATGCATGCAAGTTGGCGGGAACGCAATGCTTCTCTCTTCCACCAGC
 ATGGGTGTGCCACCAAGGACACCAACGCCAAGTACAACAGCCGTGCAGCTCAGCTCTACAGGAGAAAAAT
 CAAGACTCTGGCCACCCAGGCCACCCGACGGCACGGCACCCGATCTGTGGTGGACAGCTGTGCAGCTCCA
 CCCGCATCCCCTCTCAAAGGAGGAGGACTTTTTGCCTCTCACGCCTCTCTGGAGGTCAGTGGTGCTA
 CGCAGGCATCTGCACAGCCAGAGCCAGCCTCGTCAACACCGTGGGGCTTGAAACTACTCCAGAAAAACA
 CGAAGGTGGCCGGGACAAGGGCCAAGTGTGGAAGGGCTGAACACCCCTGGGAAGACTGCACCTGCAGAG
 GTTTCATCCATTAAAAAAGAAGCCAAATCAAGCAAAAAAGGACTTGGAGCAAAAAAGGAGCTTGG
 GAGCCAGAAACTGACAAATACATCCTTCACTGAGATCGAAAAGCAAGCTCAGGCTGTGGATAAGAGGAA
 GGAGCAGGAAGACCTGGCCAGGGGACCCCGAAGGAAGAGTCCATTGTTTCATCGTTGCGATTGGCCTAC
 AAGGATCTGGAATTCACAAGAAGCAAGATGAAAGACTGAACCTGAGTGGCCAGAAGAAGGCGGAAGCTG
 AGCGGTGGGCATGGGCTTCGGAAGCTGCAGAGGTGGCATCTCCCACTCAGTGACCTCAGACATGCAGAC
 CATCGAGCAGGAGTACCCCACTGGCAAAGCCAAGGAGGAAGTACCAGGAGGCCAGAGGACTCGTAC
 TTCAGCTCCAGCTCCAAGTGGTCTGAGCAGAGCAGCAGGACTTTGACGACCCATGGAGCTAAGAA
 GCAGCCACTTTTCTAGCTGGGATGACAGTCCGACTCTACTGGAAGAAGACAGCAGCAGAGACCCCTGA
 GCCTGCCACGAAAAGCACCGGCTCTTCAGACAGGCCAGTTCGCGCGGAAGCCAGAATACGAGCCCGTT
 GGCAATACAGATGAAGCCAGAAGAAGTTTGGCAATGTCAAGGCCATTTCTCGGACATGTACTTTGGCA
 TACAATCCAGACAGATTTTGAACCCGGGACGGCTGGAGAGGCTCTCCACCAGCTCTCCATTAGCTC
 TGCAGATCTTTTCGATGAGCAGAGGAAGCAGACCACAGGAAACTACAACCTCTCGAACGTCTGCCAAC
 GCCCAGACATGGCACAGTTCAGCAAGGTGTGCGCTCCGTTGCTGGAAAACCTTCCGTCTTTGCCAATG
 GGGTCATGACATCCATTCAGGATCGCTACGGCTCG

ACCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205980 representing NM_001044273
 Red=Cloning site Green=Tags(s)

MGDPSKQDILAIKRLRSVPTNKVCFDCGAKNPSWASISYGVFLCIDCSGSHRSLGVHLSFIRSTELDSN
 WSWFQLRCMQVGGNANASSFFHQHGCAKDTNAKYNRAAQLYREKIKTLATQATRRRHGDLWLDSCAAP
 PASPPPKEEDFFASHASLEVSGATQASAQPEPASSTPWGLETTPEKHGGPGQGPSVEGLNTPGKTAPAE
 VSSI I K K K P N Q A K K G L G A K K G S L G A Q K L T N T S F T E I E K Q A Q A V D K R K E Q E D L A R G T P K E E S I V S S L R L A Y
 K D L E I H K K Q D E R L N L S G Q K A E A E R L G M F G S C R G G I S H S V T S D M Q T I E Q E S P T L A K P R R K Y Q E D P E D S Y
 F S S S K W S E Q S S S R Y F D D P M E L R S S H F S S W D S A D S Y W K K D S S R D P E P A T K S T G S S D R P S S R R K P E Y E P V
 G N T D E A Q K K F G N V K A I S S D M Y F G I Q S Q T D F E T R A R L E R L S T S S I S S A D L F D E Q R K Q T T G N Y N L S N V L P N
 A P D M A Q F K Q G V R S V A G K L S V F A N G V M T S I Q D R Y G S

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

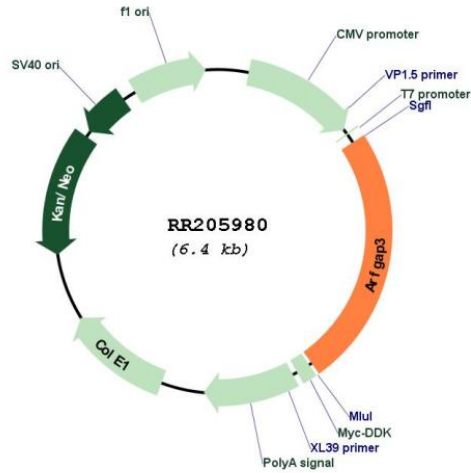
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001044273
ORF Size:	1575 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:	<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:	NM_001044273.1 , NP_001037738.1
RefSeq Size:	2611 bp
RefSeq ORF:	1578 bp
Locus ID:	503165
UniProt ID:	Q4KLN7
Cytogenetics:	7q34
MW:	57.7 kDa
Gene Summary:	GTPase-activating protein (GAP) for ADP ribosylation factor 1 (ARF1). Hydrolysis of ARF1-bound GTP may lead to dissociation of coatomer from Golgi-derived membranes to allow fusion with target membranes (By similarity).[UniProtKB/Swiss-Prot Function]