

Product datasheet for **RC238005**

ARFGAP1 (NM_001281482) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARFGAP1 (NM_001281482) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARFGAP1
Synonyms:	ARF1GAP; HRIHFB2281
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC238005 representing NM_001281482 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCAGCCCAAGAACCAGGAAGTTCTTAAAGAAGTCAGGGTGCAGGATGAGAACAACGTTTGT
AGTGTGGCGGTTCAATCCTCAGTGGGTCAGTGTGACCTACGGCATCTGGATCTGCCTGGAGTGC
GAGACACCGCGGGCTTGGGGTTACCTCAGCTTTGTGCGCTCTGTTACTATGGACAAGTGAAGGACATT
GAGCTTGAGAAGATGAAAGCTGGTGGGAATGCTAAGTTCGAGAGTTCCTGGAGTCTCAGGAGGATTACG
ATCCTTGCTGGTCTTGCAGGAGAAGTACAACAGCAGAGCCGCGGCCCTTTAGGGATAAGGTGGTCCG
TCTGGCCGAAGGCAGAGAGTGGTCTCTGGAGTCATCACCTGCCAGAACTGGACCCACCTCAGCCAGG
ACGCTGCCGTCCATGGTGCACCGAGTCTCTGGCCAGCCGAGAGTGTGACCGCCTCTCGGACAAGGCTT
TTGAAGACTGGCTGAATGATGACCTCGGCTCCTATCAAGGGGCCAGGGGAATCGCTACGTGGGTTTGG
GAACACGCCACCGCCTCAGAAGAAAGAAGATGACTTCCTCAACAACGCCATGTCTCCCTGTACTCGGGC
TGGAGCAGCTTACCAGTGGAGCCAGCCGGTTTGCCTCGGCAGCCAAGGAGGGCGCTACAAAGTTGGAT
CCCAAGCGAGTCAGAAGGCGTCCGAGCTGGGCCACAGCCTGAACGAGAAGTCTCAAGCCTGCGCAGGA
GAAGGTGAAGGAGGAAAGATTTTGTATGATGTCTCCAGTGGGGTCTCTCAGTTGGCGTCCAAGTGCCAG
CGCCGTCTTTGCTGCCATCAGTCCCACTGCTCTGCGGGCCATTTGGGGCGTGCATTTTGTCTGTTTCT
GGCATGAGGCGCTCTGCGGACAGACGGGGAGGGAAGAGCAGGCCCTCGCTCCTCCCCCAAGCATGTGGT
GGGAGCTCTTGAAGTCTGTGCACGAGGCTGTCTCGTGCATGTCCCGCACACACCTGGCACCGCTGCA
GAGTGGCCGGGGCGTCTGTCTGTCCAGGGAGTCGGTAGTAAGGGATGGCGGGACGTACCACCTTTT
TTCGGGAAAGCAGAGGGCCCTTGGACAGCCCTCGGAGGGCCACAGTTATCAGAACAGCGGTCTGGAC
CACTTCCAAAACAGCAACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC238005 representing NM_001281482
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MASPRTRKVLKEVVRVQDENNVCFECGAFNPQWVSVTYGIWICLECSGRHRGLGVHLSFVRSVTMDKWKDI
 ELEKMKAGGNAKFRFLESQEDYDPCWSLQEKYNSRAALFRDKVVALAEGREWSLESSPAQNWTTPQPR
 TLPMSVHRVSGQPQSVTASSDKAFEDWLNDDLGSYQGAQGNRYVGFNGTPPPQKKEDDFLNNAMSSLYSG
 WSSFTTGASRFASAAKEGATKFGSQASQKASELGHSLNENVLKPAQEKVKEGKIFDDVSSGVSQ LASKCQ
 RRLCCHQSHCSAGHLGRAFCPVSWHEALCGQTGREEQASLLPPKHVVGALVVCARGCPRCHVPHTPGTAA
 EWPGRLLCSRESVVRDGGTSPFFFRGKQRAPWTAPRRATVIRTAVWTTSTAT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

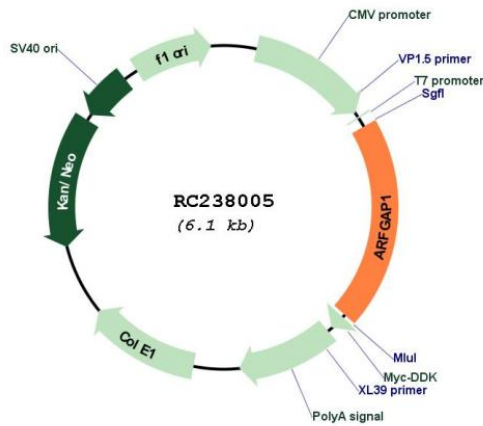
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001281482

ORF Size:	1209 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_001281482.2
RefSeq Size:	3524 bp
RefSeq ORF:	1212 bp
Locus ID:	55738
UniProt ID:	Q8N6T3
Cytogenetics:	20q13.33
Protein Pathways:	Endocytosis
MW:	44.9 kDa
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]