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Product datasheet for RG238005

ARFGAP1 (NM_001281482) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARFGAP1 (NM_001281482) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARFGAP1
Synonyms:	ARF1GAP; HRIHFB2281
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG238005 representing NM_001281482.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCAGCCCAAGAACCAGGAAGGTTCTTAAAGAAGTCAGGGTGCAGGATGAGAACAACGTTTGTTTT
GAGTGTGGCGCGTTCAATCCTCAGTGGGTCAGTGTGACCTACGGCATCTGGATCTGCCTGGAGTGCTCG
GGGAGACACCGCGGGCTTGGGGTTCACCTCAGCTTTGTGCGCTCTGTTACTATGGACAAGTGGAAGGAC
ATTGAGCTTGAGAAGATGAAAGCTGGTGGGAATGCTAAGTTCCGAGAGTTCCTGGAGTCTCAGGAGGAT
TACGATCCTTGCTGGTCCTTGCAGGAGAAGTACAACAGCAGAGCCGCGGCCCTCTTTAGGGATAAGGTG
GTCGCTCTGGCCGAAGGCAGAGAGTGGTCTCTGGAGTCATCACCTGCCCAGAACTGGACCCCACCTCAG
CCCAGGACGCTGCCGTCCATGGTGCACCGAGTCTCTGGCCAGCCGCAGAGTGTGACCGCCTCCTCGGAC
AAGGCTTTTGAAGACTGGCTGAATGATGACCTCGGCTCCTATCAAGGGGCCCAGGGGAATCGCTACGTG
GGGTTTGGGAACACGCCACCGCCTCAGAAGAAAGAAGATGACTTCCTCAACAACGCCATGTCCTCCCTG
TACTCGGGCTGGAGCAGCTTCACCACTGGAGCCAGCCGGTTTGCCTCGGCAGCCAAGGAGGGCGCTACA
AAGTTTGGATCCCAAGCGAGTCAGAAGGCGTCCGAGCTGGGCCACAGCCTGAACGAGAACGTCCTCAAG
CCTGCGCAGGAGAAGGTGAAGGAGGGAAAGATTTTTGATGATGTCTCCAGTGGGGTCTCTCAGTTGGCG
TCCAAGTGCCAGCGCCGTCTTTGCTGCCATCAGTCCCACTGCTCTGCGGGCCATTTGGGGCGTGCATTT
TGTCCTGTTTCCTGGCATGAGGCGCTCTGCGGACAGACGGGGAGGGAAGAGCAGGCCTCGCTCCTCCCC
CCCAAGCATGTGGTGGGAGCTCTTGAGGTCTGTGCACGAGGCTGTCCTCGCTGCCATGTCCCGCACACA
CCTGGCACCGCTGCAGAGTGGCCGGGGCGTCTGTGTCTGTCCAGGGAGTCGGTAGTAAGGGATGGCGGG
ACGTCACCACCTTTTTTTCGGGGAAAGCAGAGGGCCCCTTGGACAGCCCCTCGGAGGGCCACAGTTATC
AGAACAGCGGTCTGGACCACTTCCAAAACAGCAACA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

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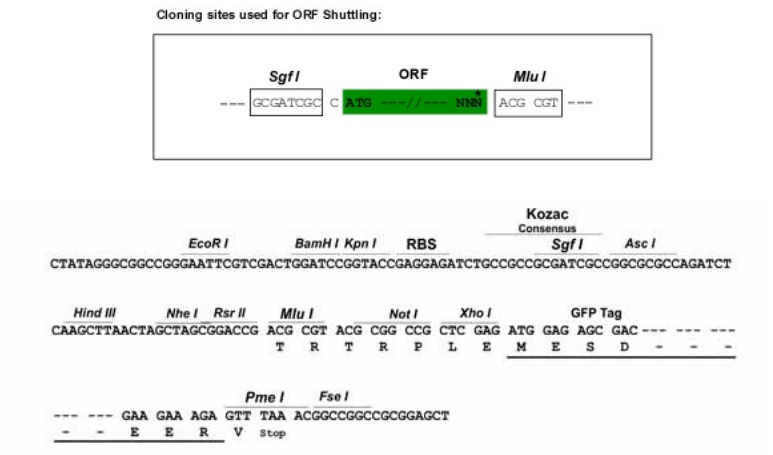
Protein Sequence:

>Peptide sequence encoded by RG238005
Blue=ORF Red=Cloning site Green=Tag(s)

MASPRTRKVLKEVRVQDENNVCFECGAFNPQWVSVTYGIWICLECSGRHRGLGVHLSFVRSVTMDKWKD
IELEKMKAGGNAKFREFLESQEDYDPCWSLQEKYNSRAAALFRDKVVALAEGREWSLESSPAQNWTPPQ
PRTLPSMVHRVSGQPQSVTASSDKAFEDWLNDDLGSYQGAQGNRYVGFGNTPPPQKKEDDFLNNAMSSL
YSGWSSFTTGASRFASAAKEGATKFGSQASQKASELGHSLNENVLKPAQEKVKEGKIFDDVSSGVSQLA
SKCQRRLCCHQSHCSAGHLGRAFCPVSWHEALCGQTGREEQASLLPPKHVVGALEVCARGCPRCHVPHT
PGTAAEWPGRLCLSRESVVRDGGTSPPFFRGKQRAPWTAPRRATVIRTAVWTTSKTAT
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

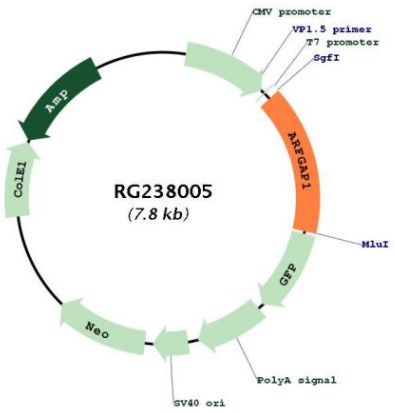
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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 phosphoinosides and inhibited by phosphatidylcholine. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG238005