

## Product datasheet for **RG237250**

### ARFGAP1 (NM\_001281484) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARFGAP1 (NM_001281484) 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:	>RG237250 representing NM_001281484. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTAAGTTCGAGAGTTCTGGAGTCTCAGGAGGATTACGATCCTTGCTGGTCTTCAGGAGAAGT
ACAACAGCAGAGCCGCGCCCTTTAGGGATAAGAGTCTCTGGCCAGCCGAGAGTGTGACCGCCTCC
TCGGACAAGGCTTTTGAAGACTGGCTGAATGATGACCTCGGCTCCTATCAAGGGGCCAGGGGAATCGC
TACGTGGGGTTTGGGAACAGCCACCGCCTCAGAAGAAAGAAGATGACTTCTCAACAACGCCATGTCC
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GCTACAAAGTTTGGATCCAAGCGAGTCAAGGCGTCCGAGCTGGGCCACAGCCTGAACGAGAAGCTC
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CCGAGCAGCGACAGCTGGACGTGCGCGGACCTCCACCAGAGGAGGAGCTCGGACAGCTGGGAGGTG
TGGGGCTCGGCTCCACCAACAGGAACAGCAACAGCGACGGCGGGGAGGGCGGGGAGGGCACCAAGAA
GCAGTCCCGCCCGCGTGCCTACTGATGATGGCTGGGACAACCAGAATCGG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



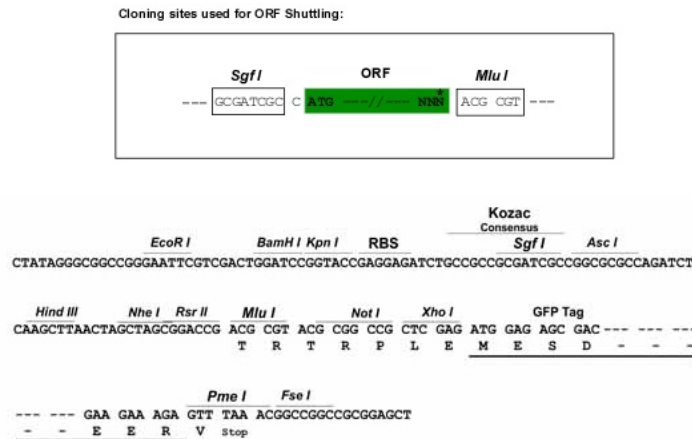
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**Protein Sequence:** >Peptide sequence encoded by RG237250  
 Blue=ORF Red=Cloning site Green=Tag(s)

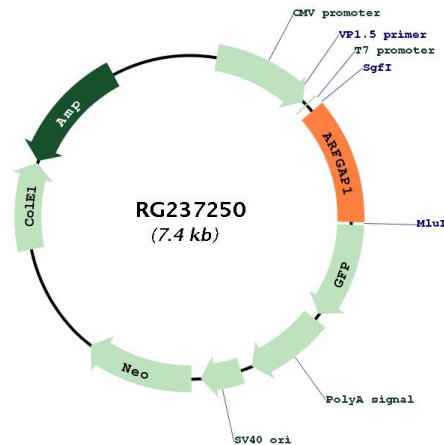
MLSSSESWSLRRITILAGPCRRSTTAEP RPSLGIRVSGQPQSVTASSDKAFEDWLNDLGSYQGAQGNR  
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 LKPAQEKVKEGKIFDDVSSGVSQLASKVQGVGSKGWRDVTFFSGKAEGPLDSPSEGHSHYQNSGLDHFQ  
 NSNIDQSFWEFTGSAEPTKTRKSPSSDSWTCADTSTERRSSDSWEVWGSASTNRRNSNSDGGEGGEGTKK  
 AVPPAVPTDDGWDNQNW  
**TR**TRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001281484

<b>ORF Size:</b>	879 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>RefSeq:</b>	<a href="#">NM_001281484.1</a> , <a href="#">NP_001268413.1</a>
<b>RefSeq Size:</b>	3184 bp
<b>RefSeq ORF:</b>	882 bp
<b>Locus ID:</b>	55738
<b>UniProt ID:</b>	<a href="#">Q8N6T3</a>
<b>Cytogenetics:</b>	20q13.33
<b>Protein Pathways:</b>	Endocytosis
<b>MW:</b>	31.9 kDa
<b>Gene Summary:</b>	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]