

## Product datasheet for **MG220367**

### Arfgap1 (NM\_001177708) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arfgap1 (NM_001177708) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arfgap1
Synonyms:	A1115377; Arf1gap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220367 representing NM_001177708 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAGCCCAAGAACCAGGAAAGTTCTTAAGGAAGTCCGGGCACAGGATGAGAATAATGTTTGCTTTG  
AGTGTGGTGCCTCAATCCTCAGTGGGTCAGCGTGACTTATGGCATCTGGATCTGCCTGGAATGCTCTGG  
GAGACACCGTGGGCTTGGGGTGCACCTCAGCTTTGTGCGCTCTGTTACAATGGACAAATGGAAGGACATT  
GAGCTGGAGAAGATGAAGGCTGGTGGGAATGCTAAGTCCGAGAGTTCTGGAGACACAGGACGACTATG  
AGCCTAGCTGGTCACTGCAGGACAAGTACAGCAGCAGAGCCGCGGCTCTTCAGGGATAAGGTGGCTAC  
TTTGGCAGAAGGTAAGAGTGGTCTCTGGAGTCATCGCCTGCACAGAAGTGGACCCACCTCAGCCCAAG  
ACACTGCAGTTCACTGCCACCGAGCCTCTGGCCAGCCACAGAGTGCAGCCGCTCTGGGACAAGGCTT  
TTGAAGATTGGCTGAATGATGACCTGGGTTCTACCAGGGTGCTCAGGAGAATCGCTATGTAGGGTTTGG  
GAACACAGTGCCACCTCAGAAGAGAGAAGATGACTTCTCAACAATGCCATGTCATCGCTGTACTCGGGC  
TGGAGCAGTTTTACCACTGGGGCAGCAAGTTGCATCTGCAGCAAAAGGAGGGTGTACAAAATTTGGAT  
CTCAAGCAAGTCAGAAGGCTTCGGAGTTGGCCACAGCCCTGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG220367 representing NM\_001177708  
 Red=Cloning site Green=Tags(s)

MASPRTRKVLKEVRAQDENNVCFECGAFNPQWVSVTYGIWICLECSGRHRGLGVHLSFVRSVTMDKWKDI  
 ELEKMKAGGNAKFRFLETQDDYEPSWSLQDKYSSRAALFRDKVATLAEGKEWSLESSPAQNWTTPQPK  
 TLQFTAHRASGQPQSAASGDKAFEDWLNDDLGSYQGAQENRYVGFNTVPPQKREDDFLNNAMSSLYSG  
 WSSFTTGASKFASAAKEGATKFGSQASQKASELGHSPE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**ACCN:** NM\_001177708

**ORF Size:** 1182 bp

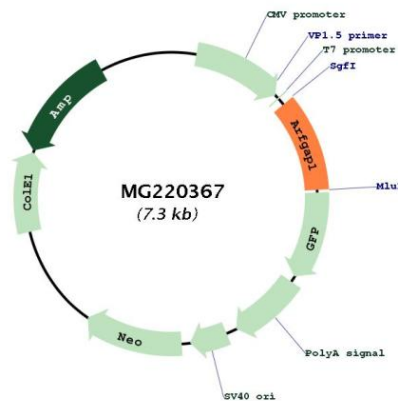
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001177708.1, NP_001171179.1</u>
<b>RefSeq Size:</b>	2448 bp
<b>RefSeq ORF:</b>	1185 bp
<b>Locus ID:</b>	228998
<b>UniProt ID:</b>	<u>Q9EPJ9</u>
<b>Cytogenetics:</b>	2 103.53 cM
<b>Gene Summary:</b>	GTPase-activating protein (GAP) for the ADP ribosylation factor 1 (ARF1). Involved in membrane trafficking and /or vesicle transport. Promotes hydrolysis of the ARF1-bound GTP and thus, is required for the dissociation of coat proteins from Golgi-derived membranes and vesicles, a prerequisite for vesicle's fusion with target compartment. Probably regulates ARF1-mediated transport via its interaction with the KDELR proteins and TMED2. Overexpression induces the redistribution of the entire Golgi complex to the endoplasmic reticulum, as when ARF1 is deactivated. Its activity is stimulated by phosphoinositides and inhibited by phosphatidylcholine (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG220367