

## Product datasheet for **MR220372**

### Arfgap1 (NM\_001177709) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Arfgap1 (NM\_001177709) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Arfgap1  
**Synonyms:** A115377; Arf1gap  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR220372 representing NM\_001177709  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAGCCCAAGAACCAGGAAAGTTCTTAAGGAAGTCCGGGCACAGGATGAGAATAATGTTTGCTTTG  
AGTGTGGTGCGTTCAATCCTCAGTGGGTCAGCGTACTTATGGCATCTGGATCTGCCTGGAATGCTCTGG  
GAGACACCGTGGGCTTGGGGTGCACCTCAGCTTTGTGCGCTCTGTTACAATGGACAAATGGAAGGACATT  
GAGCTGGAGAAGATGAAGGCTGGTGGAAATGCTAAGTTCGAGAGTTCCTGGAGACACAGGACGACTATG  
AGCCTAGCTGGTCACTGCAGGACAAGTACAGCAGCAGAGCCGCGGCGCTCTTCAGGGATAAGGTGGCTAC  
TTTGGCAGAAGGTAAGAGTGGTCTCTGGAGTCATCGCCTGCACAGAAGTGGACCCACCTCAGCCCAAG  
ACACTGCAGTTCCTGCCCACCGAGCCTCTGGCCAGCCACAGAGTGCAGCCGCTCTGGGACAAGGCTT  
TTGAAGATTGGCTGAATGATGACCTGGGTTCTACCAGGGTGCTCAGGAGAATCGCTATGTAGGGTTTGG  
GAACACAGTGCCACCTCAGAAGAGAGAAGATGACTTCCTCAACAATGCCATGTCATCGCTGTACTCGGGC  
TGGAGCAGTTTACCCTGGGGCGAGCAAGTTTGCATCTGCAGCAAAGGAGGGTGCTACAAAATTTGGAT  
CTCAAGCAAGTCAGAAGGCTTCGGAGTTGGCCACAGCCCTGAA

**ACGCGT**ACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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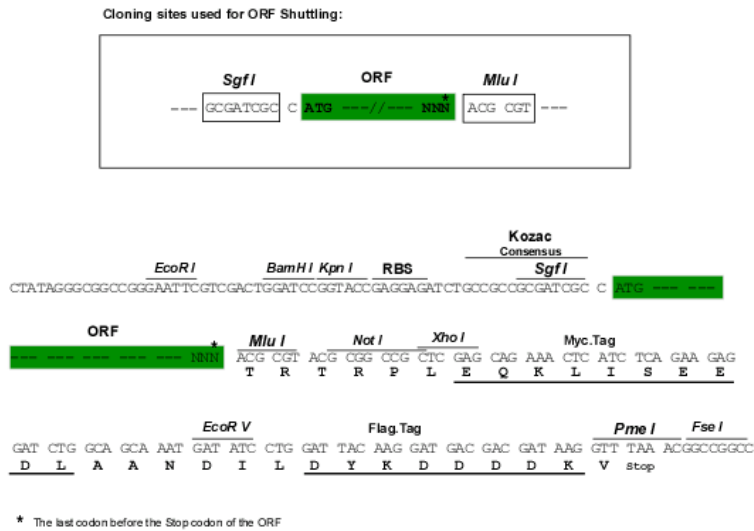
**Protein Sequence:** >MR220372 representing NM\_001177709  
Red=Cloning site Green=Tags(s)

MASPRTRKVLKEVRAQDENNVCFECGAFNPQWVSVTYGIWICLECSGRHRGLGVHLSFVRSVTMDKWKDI  
 ELEKMKAGGNAKFREFLETQDDYEPSWSLQDKYSSRAALFRDKVATLAEGKEWSLESSPAQNWTTPQPK  
 TLQFTAHRASGQPQSAASGDKAFEDWLNDLGSYQGAQENRYVGFNTVPPQKREDDFLNNAMSSLYSG  
 WSSFTTGASKFASAAKEGATKFGSQASQKASELGHSPE

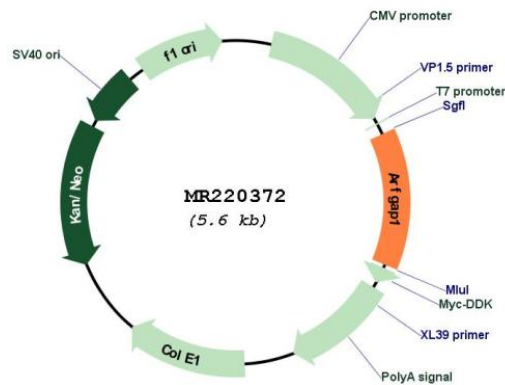
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001177709  
**ORF Size:** 744 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>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 Size:</b>	2442 bp
<b>RefSeq ORF:</b>	1179 bp
<b>Locus ID:</b>	228998
<b>UniProt ID:</b>	<a href="#">Q9EPJ9</a>
<b>Cytogenetics:</b>	2 103.53 cM
<b>MW:</b>	43.4 kDa
<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 phosphoinosides and inhibited by phosphatidylcholine (By similarity).[UniProtKB/Swiss-Prot Function]