

Product datasheet for **MG220372**

Arfgap1 (NM_001177709) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arfgap1 (NM_001177709) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Arfgap1
Synonyms: A115377; Arf1gap
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG220372 representing NM_001177709
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGCCCAAGAACCAGGAAAGTTCTTAAGGAAGTCCGGGCACAGGATGAGAATAATGTTTGCTTTG
AGTGTGGTGCCTCAATCCTCAGTGGGTCAGCGTGACTTATGGCATCTGGATCTGCCTGGAATGCTCTGG
GAGACACCGTGGGCTTGGGGTGCACCTCAGCTTTGTGCGCTCTGTTACAATGGACAAATGGAAGGACATT
GAGCTGGAGAAGATGAAGGCTGGTGGGAATGCTAAGTCCGAGAGTTCTGGAGACACAGGACGACTATG
AGCCTAGCTGGTCACTGCAGGACAAGTACAGCAGCAGAGCCGGCGCTCTTCAGGGATAAGGTGGCTAC
TTTGGCAGAAGGTAAGAGTGGTCTCTGGAGTCATCGCCTGCACAGAAGTGGACCCACCTCAGCCCAAG
ACACTGCAGTTCACTGCCACCGAGCCTCTGGCCAGCCACAGAGTGCAGCCGCTCTGGGACAAGGCTT
TTGAAGATTGGCTGAATGATGACCTGGGTTCTACCAGGGTGCTCAGGAGAATCGCTATGTAGGGTTTGG
GAACACAGTGCCACCTCAGAAGAGAGAAGATGACTTCTCAACAATGCCATGTCATCGCTGTACTCGGGC
TGGAGCAGTTTTACCACTGGGGCGAGCAAGTTGCATCTGCAGCAAAGGAGGGTGTACAAAATTTGGAT
CTCAAGCAAGTCAGAAGGCTTCGGAGTTGGCCACAGCCCTGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220372 representing NM_001177709
 Red=Cloning site Green=Tags(s)

MASPRTRKVLKEVRAQDENNVCFECGAFNPQWVSVTYGIWICLECSGRHRGLGVHLSFVRSVTMDKWKDI
 ELEKMKAGGNAKFRFLETQDDYEPSWSLQDKYSSRAAALFRDKVATLAEGKEWSLESSPAQNWTTPQPK
 TLQFTAHRASGQPQSAASGDKAFEDWLNDDLGSYQGAQENRYVGFNTVPPQKREDDFLNNAMSSLYSG
 WSSFTTGASKFASAAKEGATKFGSQASQKASELGHSP

TRTRPLE - GFP Tag - V

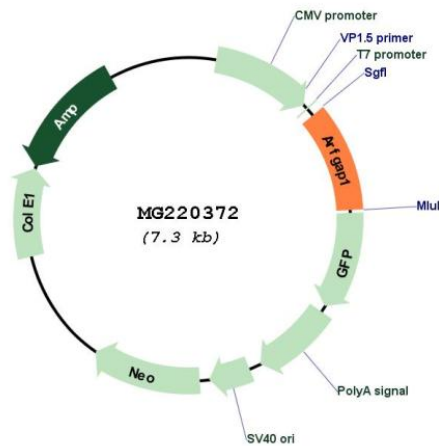
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001177709

ORF Size: 1176 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_001177709.1 , NP_001171180.1
RefSeq Size:	2442 bp
RefSeq ORF:	1179 bp
Locus ID:	228998
UniProt ID:	Q9EPJ9
Cytogenetics:	2 103.53 cM
Gene Summary:	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]