

Product datasheet for **MG220375**

Arfgap1 (NM_001177710) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arfgap1 (NM_001177710) 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: >MG220375 representing NM_001177710
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGAATAATCTTTGTGCGCTCTGTTACAATGGACAAATGGAAGGACATTGAGCTGGAGAAGATGAAGG
CTGGTGGGAATGCTAAGTTCCGAGAGTTCCTGGAGACACAGGACGACTATGAGCCTAGCTGGTCACTGCA
GGACAAGTACAGCAGCAGAGCCGCGGCTCTTCAGGGATAAGGTGGCTACTTTGGCAGAAGGTAAGAG
TGGTCTCTGGAGTCATCGCTGCACAGAACTGGACCCACCTCAGCCCAAGACACTGCAGTTCAGTCC
ACCGAGCCTCTGGCCAGCCACAGAGTGCAGCCGCTCTGGGACAAGGCTTTTGAAGATTGGCTGAATGA
TGACCTGGTTCCCTACCAGGGTCTCAGGAGAATCGCTATGTAGGGTTTGGGAACACAGTCCACCTCAG
AAGAGAGAAGATGACTTCTCAACAATGCCATGTATCGCTGTACTCGGGCTGGAGCAGTTTACCCTG
GGCGAGCAAGTTTGCATCTGCAGCAAAGGAGGGTGTACAAAATTTGGATCTCAAGCAAGTCAGAAGGC
TTCCGAGTTGGCCACAGCCTGAATGAGAATGTTCTCAAGCTGCACAGGAGAAGGTGAAGGAGGGAAGG
ATTTTTGATGATGTGCCAGTGGGTCTCTCAGTTGCCATCCAAGTCCAGGGAGTTGGCAGTAAGGGAT
GGCGTGTACTACTTTCTTCTCTGGGAAAGCCGAAGACTCTCAGACAGACCCTTAGAGGCCACAG
CTACCAGAACAGCAGTGGAGACAACCTCTCAGAACGCAACATAGACCAGAGCTTCTGGGAGACCTTTGG
AGTGCTGAGCCCCCAAGCCAAGTCCCCAAGCAGTGACAGCTGGACCTGTGCAGATGCTTCAACAGGGA
GGAGGAGCTCGGACAGCTGGGACGTTTGGGGCTCAGGTTCCGCATCCAACAACAAGAACAAGCAATAGCGA
TGGCTGGGAGAGTTGGGAGGAGCCAGTGGGAGGGCAGGGCAAAGGCCCAAGAAGGCAGCCCCATCC
ACGGCTGATGAGGGCTGGGACAACCAGAACTGG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220375 representing NM_001177710
 Red=Cloning site Green=Tags(s)

MRIIFVRSVTMDKWKDIELEKMKAGGNAKFREFLETQDDYEPSWSLQDKYSSRAAALFRDKVATLAEGKE
 WSLESSPAQNWTTPQPKTLQFTAHRASGQPQSAASGDKAFEDWLNDLGSYQGAQENRYVGFNTVPPQ
 KREDDFLNNAMSSLYSGWSSFTTGASKFASAAKEGATKFGSQASQKASELGHSLNENVLKPAQEKVKEGR
 IFDDVSSGVSQ LASKVQGVGSKGWRDVTTFSGKAEDSSDRPLEGHSYQNSSGDNSQNSNIDQSFWETFG
 SAEPKAKSPSSDWTCADASTGRRSSDWDVWGSASNNKNSNSDGWESWEGASGEGRAKATKKAAPS
 TADEGWDNQNW

TRTRPLE - GFP Tag - V

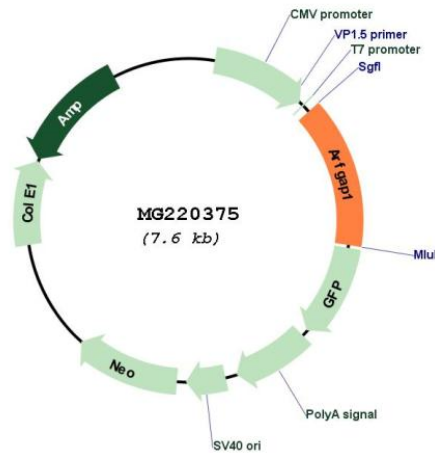
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001177710

ORF Size:	1083 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_001177710.1 , NP_001171181.1
RefSeq Size:	2398 bp
RefSeq ORF:	1086 bp
Locus ID:	228998
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]