

Product datasheet for **MG220363**

Arfgap1 (NM_001177707) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arfgap1 (NM_001177707) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arfgap1
Synonyms:	AI115377; Arf1gap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220363 representing NM_001177707 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGCCCAAGAACCAGGAAAGTTCTTAAGGAAGTCCGGGCACAGGATGAGAATAATGTTTGCTTTG
AGTGTGGTGCCTCAATCCTCAGTGGGTGACGCTGACTTATGGCATCTGGATCTGCCTGGAATGCTCTGG
GAGACACCGTGGGCTTGGGTGCACCTCAGCTTTGTGCGCTCTGTTACAATGGACAAATGGAAGGACATT
GAGCTGGAGAAGATGAAGGCTGGTGGGAATGCTAAGTCCGAGAGTTCTGGAGACACAGGACGACTATG
AGCCTAGCTGGTCACTGCAGGACAAGTACAGCAGCAGAGCCGGCGCTCTTCAGGGATAAGGTGGCTAC
TTTGGCAGAAGGTAAGAGTGGTCTCTGGAGTCATCGCCTGCACAGAAGTGGACCCACCTCAGCCCAAG
ACACTGCAGTTCACTGCCACCGAGCCTCTGGCCAGCCACAGAGTGCAGCCGCTCTGGGACAAGGCTT
TTGAAGATTGGCTGAATGATGACCTGGGTTCTACCAGGGTGTCTCAGGAGAATCGCTATGTAGGGTTTGG
GAACACAGTGCCACCTCAGAAGAGAGAAGATGACTTCTCAACAATGCCATGTCATCGCTGTACTCGGGC
TGGAGCAGTTTACCCTGGGGCAGCAAGTTTGCATCTGCAGCAAGGAGGGTGTACAAAATTTGGAT
CTCAAGCAAGTCAGAAGGCTTCGGAGTTGGCCACAGCCTGAATGAGAATGTTCTCAAGCCTGCACAGGA
GAAGGTCCAGGGAGTTGGCAGTAAGGGATGGCGTGTACTACTTTCTCTCTGGGAAAGCCGAAGAC
TCTTCAGACAGACCCTTAGAGGGCCACAGCTACCAGAACAGCAGTGGAGACAACCTCAGAACAGCAACA
TAGACCAGAGCTTCTGGGAGACCTTTGGGAGTGTGAGCCCCCAAGGCCAAGTCCCAAGCAGTGACAG
CTGGACCTGTGCAGATGCTTCAACAGGGAGGAGGACTCGGACAGCTGGGACGTTTGGGGCTCAGGTTCC
GCATCCAACAACAAGAACAGCAATAGCGATGGCTGGGAGAGTTGGGAGGGAGCCAGTGGGAGGGCAGGG
CAAAGGCCACCAAGAAGGCAGCCCCATCCACGGCTGATGAGGGCTGGGACAACCAAGAACTGG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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 Red=Cloning site Green=Tags(s)

MASPRTRKVLKEVRAQDENNVCFECGAFNPQWVSVTYGIWICLECSGRHRGLGVHLSFVRSVTMDKWKDI
 ELEKMKAGGNAKFRFLETDQDDYEPSWSLQDKYSSRAALFRDKVATLAEGKEWSLESSPAQNWTPPQPK
 TLQFTAHRASGQPQSAASGDKAFEDWLNDDLGSYQGAQENRYVGFNTVPPQKREDDFLNNAMSSLYSG
 WSSFTTGASKFASAAKEGATKFGSQASQKASELGHSLNENVLKPAQEKVQGVGSKGWRDVTFFSGKAED
 SDRPLEGHSYQNSSGDNQNSNIDQSFWETFGSAEPPKAKSPSSDSWTCADASTGRRSSDSWDVWGS
 ASNKNSNSDGSWESWEGASGEGRAKATKKAAPSTADEGWDNQNW

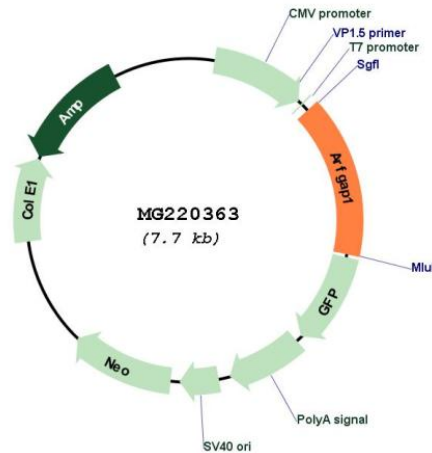
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001177707

ORF Size:	1182 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_001177707.1 , NP_001171178.1
RefSeq Size:	2729 bp
RefSeq ORF:	1185 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 phosphoinosides and inhibited by phosphatidylcholine (By similarity).[UniProtKB/Swiss-Prot Function]