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Product datasheet for MC212847

Arfgap1 (NM_001177709) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arfgap1 (NM_001177709) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arfgap1
Synonyms:	AI115377; Arf1gap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC212847 representing NM_001177709
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCAGCCCAAGAACCAGGAAAGTTCTTAAGGAAGTCCGGGCACAGGATGAGAATAATGTTTGCTTTG
AGTGTGGTGCGTTCAATCCTCAGTGGGTCAGCGTGACTTATGGCATCTGGATCTGCCTGGAATGCTCTGG
GAGACACCGTGGGCTTGGGGTGCACCTCAGCTTTGTGCGCTCTGTTACAATGGACAAATGGAAGGACATT
GAGCTGGAGAAGATGAAGGCTGGTGGGAATGCTAAGTTCCGAGAGTTCCTGGAGACACAGGACGACTATG
AGCCTAGCTGGTCACTGCAGGACAAGTACAGCAGCAGAGCCGCGGCGCTCTTCAGGGATAAGGTGGCTAC
TTTGGCAGAAGGTAAAGAGTGGTCTCTGGAGTCATCGCCTGCACAGAACTGGACCCCACCTCAGCCCAAG
ACACTGCAGTTCACTGCCCACCGAGCCTCTGGCCAGCCACAGAGTGCAGCCGCCTCTGGGGACAAGGCTT
TTGAAGATTGGCTGAATGATGACCTGGGTTCCTACCAGGGTGCTCAGGAGAATCGCTATGTAGGGTTTGG
GAACACAGTGCCACCTCAGAAGAGAGAAGATGACTTCCTCAACAATGCCATGTCATCGCTGTACTCGGGC
TGGAGCAGTTTTACCACTGGGGCGAGCAAGTTTGCATCTGCAGCAAAGGAGGGTGCTACAAAATTTGGAT
CTCAAGCAAGTCAGAAGGCTTCGGAGTTGGGCCACAGCCTGAATGAGAATGTTCTCAAGCCTGCACAGGA
GAAGGGAGTTGGCAGTAAGGGATGGCGTGATGTCACTACTTTCTTCTCTGGGAAAGCCGAAGACTCTTCA
GACAGACCCTTAGAGGGCCACAGCTACCAGAACAGCAGTGGAGACAACTCTCAGAACAGCAACATAGACC
AGAGCTTCTGGGAGACCTTTGGGAGTGCTGAGCCCCCCAAGGCCAAGTCCCCAAGCAGTGACAGCTGGAC
CTGTGCAGATGCTTCAACAGGGAGGAGGAGCTCGGACAGCTGGGACGTTTGGGGCTCAGGTTCCGCATCC
AACAACAAGAACAGCAATAGCGATGGCTGGGAGAGTTGGGAGGGAGCCAGTGGGGAGGGCAGGGCAAAGG
CCACCAAGAAGGCAGCCCCATCCACGGCTGATGAGGGCTGGGACAACCAGAACTGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites:	SgfI-MluI
ACCN:	NM_001177709
Insert Size:	1179 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	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 phosphoinosides and inhibited by phosphatidylcholine (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) differs in the 5' UTR and lacks an alternate in-frame exon and uses an alternate splice site in the 3' coding region, compared to variant 1. The resulting isoform (b) lacks an internal segment near the C-terminus, compared to isoform a. Both variants 2 and 3 encode the same isoform.

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