

Product datasheet for **MR224493**

Arfgap2 (NM_001166024) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arfgap2 (NM_001166024) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arfgap2
Synonyms:	2310032E02Rik; Zfp28; Zfp289
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR224493 representing NM_001166024
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCGAGCCCGAGCAAGACCGAAATCCAGACTATTTTTAAGAGACTTCGCGCAATCCACCAACA
 AGGCCTGTTTCGATTGTGGCGCCAAGAGTCTAGTTGGGCCAGCATCACTTACGGTGTATTTTTGTGTAT
 TGACTGCTCCGGAGTGCATCGCTCCTTGGGTGCCATCTCAGCTTTATCAGGTCCACAGAGTTGGATTCCG
 AACTGGAGCTGGTTGCAGCTGAGGTGTATGCAGGTCCGGCGGAATGCCAATGCGACTGCTTTTTCCGCC
 AACACGGATGTATGGCCAATGATGCTAACACCAAAATACGAGCCGAGCTGCCAGATGTACCGAGAGAA
 GATCCGGCAGTTAGGGAGTGCAGCTCTGACTAGGCATGGTACTGATCTTTGGATAGACAGTATGAACAGT
 GCTCCAAGTCACTCTCCAGAGAAGAAAGACTCTGATTTCTTCACAGAACAATACTCAGGCCCTGCTTGGG
 ATACAGCAGCCACTGATCCTTCAGGGACTCAGCAACCAGCCCTACCTTCAGAGAGCAGTAGCCTGGCACA
 ACCTGAACAAGGCCCTAACACTGATCTGCTCGGAACCTCACCCCAAGCCTCTCTGGAGTCCATGTATCTG
 TCAGCTAAAGGGCCCTTTGTACCAGAGAAGTAAAAGCTCCATTATTGGCAAGAAGAAGCCAGCAGCCG
 CTAAGAAAAGGGCTGGGTGCCAAGAAAGGCTGGGAGCTCAGAAGGTGAGCAACCAGAGCTTTACTGAGAT
 TGAGCGGCAGGCCAGGTGGCAGAGAAGCTCCGAGAGCAGCAGGCAGCTGATGCCAAGAAGCAGGCAGAA
 GAGTCCATGGTTGCCTCCATGCTCTGGCTACCAGGAGCTCCAGATTGATCGCAAGAAGGAGGAGAAAA
 AGCTCCAGAATCTTGAAGGAAAGAAGCGAGAGCAGGCTGAAAGGCTGGGCATGGGCTTGGTGTCCCGAAG
 CTCCATCTCCATTCTGTGCTGTCTGAGATGCAGATGATTGAGCAGGAAACCCCGCTGAGTGCAGAACTCT
 TCCCGTTCACAGCTTGACTTGTGTTGATGATGTTGGAACATTTGCATCTGGACCCCAAGTACAAGGACA
 ACCCTTTTCTTGGGAGAAACTTTTGGTTCCCGCTGGGATTGATGCAGCCTGGGGTATGGACAGGAT
 AGAAGAGAAGGAACCTGAAGTTACCATCTCCAGCATCCGGCTATTTTCAGAAAGAAGTCCGAGTCCGAGG
 GAAGTGGAGACTCGGAGCTCAGGCCTTGTAGTCCAGTGAAGCACGGCAGAAAGTTGAGGAGCCAAAGCCA
 TCTCGTCCGACATGTTCTTTGGTCGTGAGGTGGATTCTGAGTATGAAGCTAGGTCTCGGTTACAGCAGCT
 TTCGGGCAGCAGTGCCATCAGCTCTTCAGACCTTTTTGGAACATGGATGGAGCTCATGGAGGAGGAACT
 GTATCTCTGGGAATGACTTCTACAGCTGACATTGCCAGTTTAAGCAGGGTGTCAAGTCTGTGGCTG
 GCAAGATGGCTGTGCTGGCCAATGGTGTGATGAATTCCTACAGGATCGTACGGTTCCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224493 representing NM_001166024
 Red=Cloning site Green=Tags(s)

MAASPSKTEIQTIFKRLRAIPTNKACFDCGAKSPSWASITYGVFLCIDCSGVHRSGLVHLSFIRSTELDS
 NWSWLQLRCMQVGGNANATAFFRQHGMANDANTKYTSRAAQMYREKIRQLGSAALTRHGTDLWIDSMNS
 APSSHSPEKKDSDFEHTQAPAWDTAATDPSGTQPALPSESSSLAQPEQGPNTDLLGTSPQASLESMYL
 SAKGPPSCTRELKSSIIGKKKPAAKKGLGAKKGLGAQKVSNSQSFTEIERQAQVAEKLREQQAADAKKQAE
 ESMVASMRLAYQELQIDRKKEEKKLQNLEGGKREQAERLGMGLVSRSSISHSVLSEMQMIEQETPLSAKS
 SRSQDLDFDDVGTFFASGPPKYKDNPFSLGETFGSRWSDAAWGM DRV EKEPEVTISSIRPISERTASRR
 EVETRSSGLESSEARQKFAGAKAISSDMFFGREVDSEYEARSRLQQLSGSSAIISSDLFGNMDGAHGGGT
 VSLGNVLPADIAQFKQGVKSVAGKMAVLANGVMNSLQDRYGSY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001166024
ORF Size:	1602 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_001166024.1 , NP_001159496.1
RefSeq Size:	3409 bp
RefSeq ORF:	1605 bp
Locus ID:	77038
UniProt ID:	Q99K28
Cytogenetics:	2 E1
MW:	58.6 kDa
Gene Summary:	This gene encodes a zinc-finger-containing GTPase-activating protein for ADP ribosylation factor 1 (ARF1), a small GTPase that plays a role in coatamer-mediated vesicular trafficking. This gene product stimulates the hydrolysis of ARF1-bound GTP, which may lead to dissociation of coatamer from Golgi-derived membranes to allow fusion with target membranes. It may regulate the retrograde transport from the Golgi complex to the endoplasmic reticulum. Expression of this gene has been shown to be controlled by inhibitor of DNA binding 1 (Id1). Alternatively spliced transcript variants encoding different isoforms have been found for this gene. A pseudogene of this gene was identified on chromosome 6. [provided by RefSeq, Oct 2009]