

Product datasheet for **MG224493**

Arfgap2 (NM_001166024) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arfgap2 (NM_001166024) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arfgap2
Synonyms:	2310032E02Rik; Zfp28; Zfp289
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224493 representing NM_001166024
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCGAGCCCGAGCAAGACCGAAATCCAGACTATTTTTAAGAGACTTCGCGCAATCCACCAACA
 AGGCTGTTTCGATTGTGGCGCCAAGAGTCTAGTTGGGCCAGCATCACTTACGGTGTATTTTTGTGTAT
 TGACTGCTCCGGAGTGCATCGCTCCTTGGGTGCCATCTCAGCTTTATCAGGTCCACAGAGTTGGATTCCG
 AACTGGAGCTGGTTGCAGCTGAGGTGTATGCAGGTCCGGCGGAATGCCAATGCGACTGCTTTTTCCGCC
 AACACGGATGTATGGCCAATGATGCTAACACCAAAATACGAGCCGAGCTGCCAGATGTACCGAGAGAA
 GATCCGGCAGTTAGGGAGTGCAGCTCTGACTAGGCATGGTACTGATCTTTGGATAGACAGTATGAACAGT
 GCTCCAAGTCACTCTCCAGAGAAGAAAGACTCTGATTTCTTCACAGAACAATACTCAGGCCCTGCTTGGG
 ATACAGCAGCCACTGATCCTTCAGGGACTCAGCAACCAGCCCTACCTTCAGAGAGCAGTAGCCTGGCACA
 ACCTGAACAAGGCCCTAACACTGATCTGCTCGGAACCTCACCCCAAGCCTCTCTGGAGTCCATGTATCTG
 TCAGCTAAAGGGCCCTTTGTACCAAGAACTGAAAAGCTCCATTATTGGCAAGAAGAAGCCAGCAGCCG
 CTAAGAAAGGGCTGGGTGCCAAGAAAGGCTGGGAGCTCAGAAGGTGAGCAACCAGAGCTTTACTGAGAT
 TGAGCGGCAGGCCAGGTGGCAGAGAAGCTCCGAGAGCAGCAGGCAGCTGATGCCAAGAAGCAGGCAGAA
 GAGTCCATGGTTGCCATGCTGCTGGCTACCAGGAGCTCCAGATTGATCGCAAGAAGGAGGAGAAAA
 AGCTCCAGAATCTTGAAGGAAAGAAGCGAGAGCAGGCTGAAAAGCTGGGCATGGGCTTGGTGTCCCGAAG
 CTCCATCTCCATTCTGTGCTGTCTGAGATGCAGATGATTGAGCAGGAAACCCCGCTGAGTGCAGAACT
 TCCCGTTCACAGCTTGACTTGTGTTGATGATGTTGGAACATTTGCATCTGGACCCCAAGTACAAGGACA
 ACCCCTTTTCTTGGGAGAACTTTTGGTTCCCGCTGGGATTGATGCAGCCTGGGGTATGGCAGGGT
 AGAAGAGAAGGAACCTGAAGTTACCATCTCCAGCATCCGGCCTATTTTCAGAAAGAAGTCCGAGTCCGGAGG
 GAAGTGGAGACTCGGAGCTCAGGCCTTGTAGTCCAGTGAAGCACGGCAGAAAGTTTGCAGGAGCCAAAGCCA
 TCTCGTCCGACATGTTCTTTGGTCGTGAGGTGGATTCTGAGTATGAAGCTAGGTCTCGGTTACAGCAGCT
 TTCGGGCAGCAGTGCCATCAGCTCTTACAGCTTTTGGAAACATGGATGGAGCTCATGGAGGAGGAACT
 GTATCTCTGGGGAATGACTTCTACAGCTGACATTGCCAGTTTAAAGCAGGGTGTCAAGTCTGTGGCTG
 GCAAGATGGCTGTGCTGGCCAATGGTGTGATGAATTCCTACAGGATCGTACGGTTCCTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG224493 representing NM_001166024
 Red=Cloning site Green=Tags(s)

MAASPSKTEIQTIFKRLRAIPTNKACFDCGAKSPSWASITYGVFLCIDCSGVHRS LGVHLSFIRSTELDS
 NWSWLQLRCMQVGGNANATAFFRQHGMANDANTKYTSRAAQMYREKIRQLGSAALTRHGTDLWIDSMNS
 APSSHSPEKKDSDFFEHTQAPAWDTAATDPSGTQQPALPSESSLAQPEQGPNTDLLGTSPOASLESMYL
 SAKGPSCTRELKSSIIGKKKPAAAKGLGAKKGLGAQKVSNSQSFTEIERQAQVAEKLREQQAADAKKQAE
 ESMVASMRLAYQELQIDRKKEEKLQNLGKREQAERLGMGLVSRSSISHSVLSEMQMIQETPLSAKS
 SRSQDLDFDDVGTFAAGPPKYKDNPFSLGETFGSRWSDAAWGM DRV EKEPEVTISSIRPISERTASRR
 EVETRSSGLESSEARQKFAGAKAISSDMFFGREVDSEYEARSRLQQLSGSSAISSSDLFGNMDGAHGGGT
 VSLGNVLPADIAQFKQGVKSVAGKMAVLANGVMNSLQDRYGSY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

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
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]