

## Product datasheet for **MR208335**

### Arfgap2 (NM\_023854) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arfgap2 (NM_023854) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arfgap2
Synonyms:	2310032E02Rik; Zfp28; Zfp289
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208335 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGCGAGCCCGAGCAAGACCGAAATCCAGACTATTTTTAAGAGACTTCGCGCAATCCACCAACA  
 AGGCTGTTTCGATTGTGGCGCCAAGAGTCTAGTTGGGCCAGCATCACTTACGGTGATTTTTGTGTAT  
 TGA CTGCTCCGGAGTGCATCGCTCCTTGGGTGCCATCTCAGCTTTATCAGGTCCACAGAGTTGGATTCCG  
 AACTGGAGCTGGTTGCAGCTGAGGTGTATGCAGGTCCGGCGGAATGCCAATGCGACTGCTTTTTCCGCC  
 AACACGGATGTATGGCCAATGATGCTAACACCAAAATACGAGCCGAGCTGCCAGATGTACCGAGAGAA  
 GATCCGGCAGTTAGGGAGTGCAGCTCTGACTAGGCATGGTACTGATCTTTGGATAGACAGTATGAACAGT  
 GCTCCAAGTCACTCTCCAGAGAAGAAAGACTCTGATTTCTTACAGAACAATACTCAGGCCCTGCTTGGG  
 ATACAGCAGCCACTGATCCTTCAGGGACTCAGCAACCAGCCCTACCTTCAGAGAGCAGTAGCCTGGCACA  
 ACCTGAACAAGGCCCTAACACTGATCTGCTCGGAACCTCACCCCAAGCCTCTCTGGAAGTAAAAGTCC  
 ATTATTGGCAAGAAGAAGCCAGCAGCCGCTAAGAAAGGGCTGGGTGCCAAGAAAGCCTGGGAGCTCAGA  
 AGGTGAGCAACCAGAGCTTTACTGAGATTGAGCGGCAGGCCAGGTGGCAGAGAAGCTCCGAGAGCAGCA  
 GGCAGCTGATGCCAAGAAGCAGGAGGAGAAAGTCCATGGTTGCCTCCATGCGTCTGGCCTACCAGGAGCTC  
 CAGATTGATCGCAAGAAGGAGGAGAAAAAGCTCCAGAATCTTGAAGGAAAGAAGCAGAGCAGGCTGAAA  
 GGCTGGGCATGGGCTTGGTGTCCCGAAGCTCCATCTCCATTCTGTGCTGTCTGAGATGCAGATGATTGA  
 GCAGGAAACCCGCTGAGTGCAGAACTTCCCCTTACAGCTTGACTTGTGTTGATGATGTTGGAACATTT  
 GCATCTGGACCCCAAGTACAAGGACAACCCCTTTTCTTGGGAGAACTTTTGGTCCCGCTGGGATT  
 CAGATGCAGCCTGGGGTATGGACAGGGTGAAGAAGAAGAACTGAAGTTACCATCTCAGCATCCGGCC  
 TATTTTCAGAAAGAACTGCGAGTCGGAGGGAAGTGGAGACTCGGAGCTCAGGCCTTGAGTCCAGTGAAGCA  
 CGGCAGAAAGTTTGCAGGAGCCAAAGCCATCTCGTCCGACATGTTCTTTGGTCTGAGGTGATTCTGAGT  
 ATGAAGCTAGGTCTCGGTTACAGCAGCTTTCCGGCAGCAGTGCCATCAGCTCTTCAGACCTTTTGGAAA  
 CATGGATGGAGCTCATGGAGGAGAACTGTATCTCTGGGGAATGACTTCTACAGCTGACATTGCCAG  
 TTTAAGCAGGGTGTCAAGTCTGTGGCTGGCAAGATGGCTGTGCTGGCCAATGGTGTGATGAATTCCTTAC  
 AGGATCGCTACGGTTCCTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208335 protein sequence  
 Red=Cloning site Green=Tags(s)

MAASPKTEIQIFKRLRAIPTNKACFDCGAKSPSWASITYGVFLCIDCSGVHRS LGVHLSFIRSTELDS  
 NWSWLQLRCMQVGNANATAFFRQHGMANDANTKYTSRAAQMYREKIRQLGSAALTRHGTDLWIDSMNS  
 APSSPEKKDSDFEHTQAPAWDTAATDPSGTQQPALPSESSLAQPEQGPNTDLLGTSQPASLELKSS  
 IIGKKKPAAAKGLGAKKGLGAQKVSNSFTEIERQAQVAEKLREQQAADAKKQAEESMVASMRLAYQEL  
 QIDRKKEEKQLNLEGGKREQAERLGMGLVSRSSI SHSVL SEMQMIEQETPLSAKSSRSQLDLFDDVGT  
 ASGPPKYKDNPFSLGETFGSRWSDAAGWMDRVEEKEPEVTISSIRPISERTASRRETVTRSSGLESSEA  
 RQKFAGAKAISSDMFFGREVDSEYEARSRLQQLSGSSAISSSDLFGNMDGAHGGGTVSLGNVLPADIAQ  
 FKQGVKSVAGKMAVLANGVMNSLQDRYGSY

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**ACCN:** NM\_023854

**ORF Size:** 1563 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:**
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\\_023854.2](#), [NP\\_076343.2](#)
**RefSeq Size:** 3367 bp

**RefSeq ORF:** 1563 bp

**Locus ID:** 77038

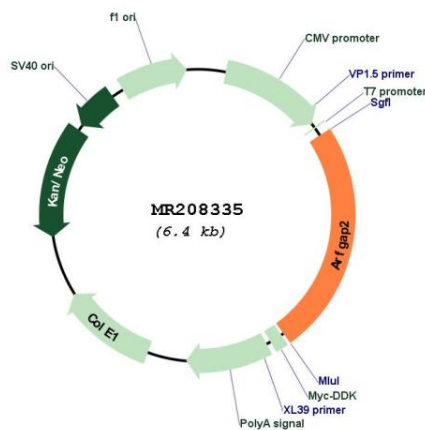
**UniProt ID:** [Q99K28](#)

**Cytogenetics:** 2 E1

**MW:** 56.6 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]

**Product images:**



Circular map for MR208335