

Product datasheet for **MC217400**

Arfgap2 (NM_023854) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC217400 representing NM_023854
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGAGCCCGAGCAAGACCGAAATCCAGACTATTTTTAAGAGACTTCGCGCAATCCACCAACA
 AGGCTGTTTCGATTGTGGCGCCAAGAGTCTAGTTGGGCCAGCATCACTTACGGTGATTTTTGTGTAT
 TGACTGCTCCGGAGTGCATCGCTCCTTGGGTGCCATCTCAGCTTTATCAGGTCCACAGAGTTGGATTTCG
 AACTGGAGCTGGTTGCAGCTGAGGTGTATGCAGGTCCGGCGGAATGCCAATGCGACTGCTTTTTCCGCC
 AACACGGATGTATGGCCAATGATGCTAACACCAAAATACGAGCCGAGCTGCCAGATGTACCGAGAGAA
 GATCCGGCAGTTAGGGAGTGCAGCTCTGACTAGGCATGGTACTGATCTTTGGATAGACAGTATGAACAGT
 GCTCCAAGTCACTCTCCAGAGAAGAAAGACTCTGATTTCTTACAGAACAATACTCAGGCCCTGCTTGGG
 ATACAGCAGCCACTGATCCTTCAGGGACTCAGCAACCAGCCCTACCTTCAGAGAGCAGTAGCCTGGCACA
 ACCTGAACAAGGCCCTAACACTGATCTGCTCGGAACCTCACCCCAAGCCTCTCTGGAAGTAAAAGCTCC
 ATTATTGGCAAGAAGAAGCCAGCAGCCGCTAAGAAAGGGCTGGGTGCCAAGAAAGCCTGGGAGCTCAGA
 AGGTGAGCAACCGAGCTTTACTGAGATTGAGCGGCAGGCCAGGTGGCAGAGAAGCTCCGAGAGCAGCA
 GGCAGCTGATGCCAAGAAGCAGGAGAGAGTCCATGGTTGCCTCCATGCGTCTGGCCTACCAGGAGCTC
 CAGATTGATCGCAAGAAGGAGGAGAAAAAGCTCCAGAATCTTGAAGGAAAGAAGCAGAGCAGGCTGAAA
 GGCTGGGCATGGGCTTGGTGTCCCGAAGCTCCATCTCCATTCTGTGCTGTCTGAGATGCAGATGATTGA
 GCAGGAAACCCCGCTGAGTGCAGAAATCTTCCCGTTCACAGCTTGACTTGTGTTGATGATGTTGGAACATTT
 GCATCTGGACCCCAAGTACAAGGACAACCCCTTTTCTTGGGAGAACTTTTGGTCCCGCTGGGATT
 CAGATGCAGCCTGGGGTATGGACAGGGTGAAGAGAAGGAACCTGAAGTTACCATCTCAGCATCCGGCC
 TATTTTCAGAAAGAACTGCGAGTCGGAGGGAAGTGGAGACTCGGAGCTCAGGCCTTGAGTCCAGTGAAGCA
 CGGCAGAAAGTTTGCAGGAGCCAAAGCCATCTCGTCCGACATGTTCTTTGGTCTGAGGTGATTCTGAGT
 ATGAAGCTAGGTCTCGGTTACAGCAGCTTTCCGGCAGCAGTGCCATCAGCTCTTCCAGACCTTTTGGAAA
 CATGGATGGAGCTCATGGAGGAGGAACTGTATCTCTGGGGAATGACTTCTACAGCTGACATTGCCAG
 TTTAAGCAGGGTGTCAAGTCTGTGGCTGGCAAGATGGCTGTGCTGCCAATGGTGTGATGAATTCCTTAC
 AGGATCGCTACGGTTCCTACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_023854

Insert Size: 1563 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_023854.2](#), [NP_076343.2](#)

RefSeq Size: 3367 bp

RefSeq ORF: 1563 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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The encoded protein (isoform 2) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.