

Product datasheet for **RR208979**

Arfgap2 (NM_001033707) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arfgap2 (NM_001033707) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arfgap2
Synonyms:	Zfp289
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR208979 representing NM_001033707
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCGGCCCGAGCAAGAGCGAAATCCAGACTCTTTTTAAGAGGCTTCGCGCAATCCACCAACA
 AGGCTGTTTCGATTGTGGAGCCAAGAGTCTAGTTGGGCCAGCATCACGTATGGTGATTTTTGTGAT
 TGA CTGCTCTGGAGTGCATCGCTCCTTGGGTGTTTATCAGGTTTATCAGGTTCCACAGAGTTGGATTCCG
 AACTGGAGCTGGTTGCAGCTGAGGTGTATGCAGGTCGGCGGGAATGCCAATGCGACTGCTTTTTCCGCC
 AACATGGATGTCTGGCCAATGATGCTAACACCAAAATAACAGCCGAGCTGCCAGATGTACCGAGAGAA
 GATCAGGCAGTTAGGGAGTACAGCTCTGGCTAGGCACGGCACTGATCTTTGGATAGACAATGAACAGT
 GCTCTAGTCACTCTCCAGAGAAGAAAGACTCTGATTTCTTACAGAGCATACTCAGGCCCTGCTGGG
 ATACAGCAGCCACGGATCCTTCAGGGACCCAGCAACCAGCCCTACCTTCAGAGAGCAGTAGCCTGGCGCA
 ACCTGAACCTGGCCCCAACACTGATCTGCTTGGAACTCACCCCAAGCCTCTCTGGAAGTAAAAGTCC
 ATTATTGGCAAGAAGAAGCCAGCAGCAGCTAAGAAAGGGCTGGGTGCCAAGAAAGCCTGGGAGCTCAGA
 AGGTGAGCAACCAGAGCTTTACTGAGATTGAGCGGCAGGCCAGGTGGCAGAGAAGCTCCGAGAGCAGCA
 GGCAGCTGATGCCAAGAAGCAGGAGGAGAAAGTCCATGGTTGCCTCCATGCGTCTGGCCTACCAGGAGCTC
 CAGATTGATCGCAAGAAGGAGGAGAAAAAGCTACAGAACCTTGAAGGAAAGAAACGAGAGCAGGCTGAAA
 GGCTGGGCATGGGCTTGGTGTCCCGAAGCTCCATCTCCACTCTGTGCTGTCTGAGATGCAGATGATTGA
 GCAGGAAACCCGCTGAGTGCAAAATCTCCCGTTCACAACTTGACTTGTGATGATGTTGGAACATTT
 GCTTCTGGACCCCAAGTACAAGGATAACCCCTTTTCTTTGGGAGAACTTTTGGTCCCGCTGGGATT
 CAGATGCAGCTGGGGTATGGACAGGGTAGAAGAGAAGAACCTGAAGTTACCATCTCAGCATCCGGCC
 TATTTTCAGAAAGAACCACAAGTCGGAGGGAAGTGGAGAGTCGGATCTCAGGTCTTGAGTCCAGTGAAGCA
 CGTCAGAAAGTTCGAGGAGCCAAAGCCATCTCGTCTGACATGTTCTTTGGTTCGAGAGGTGGACTCTGAGT
 ATGAAGCCAGGTCTCGGTTACAGCAGCTTTGGGCAGCAGTGCCATCAGCTCTTCAGACCTTTTGGGGA
 TGTGGATGGAGCTCATGGAGGAGAACTGTATCTCTGGGGAATGACTTCTACAGCTGACATTGCCAG
 TTTAAGCAGGGTGTCAAGTCTGTGGCTGGCAAGATGGCTGTGCTGGCCAATGGTGTAAATGAATCTTTAC
 AGGATCGCTACGGTTCCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208979 representing NM_001033707
 Red=Cloning site Green=Tags(s)

MAAGPSKSEIQLFKRLRAIPTNKACFDCGAKSPSWASITYGVFLCIDCSGVHRS LGVHLSFIRSTELDS
 NWSWLQLRCMQVGNANATAFFRQHGLANDANTKYNRAAQMYREKIRQLGSTALARHGTDLWIDNMNS
 APSSHSPEKKDSDFEHTQAPAWDTAATDPSGTQQPALPSESSLAQPEPGPNTDLLGTSQPASLELKSS
 IIGKKKPAAAKGLGAKKGLGAQKVSNSQSFTEIERQAQVAEKLEQQAADAKKQAEESMVASMLRAYQEL
 QIDRKKEEKQLNLEGGKREQAERLGMGLVSRSSISHSVLSEMQMIEQETPLSAKSSRSQLDLFDDVGT
 ASGPPKYKDNPFSLGETFGSRWSDAAWGM DRV EKEPEVTISSIRPISERTTSRREVESRISGLESSEA
 RQKFAGAKAISSDMFFGREVDSEYEARSRLQQLSGSSAISSSDLFGDVDGAHGGGTVSLGNVLPADIAQ
 FKQGVKSVAGKMAVLANGVMNSLQDRYGSY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001033707

ORF Size: 1560 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_001033707.1](#), [NP_001028879.1](#)

RefSeq Size: 2797 bp

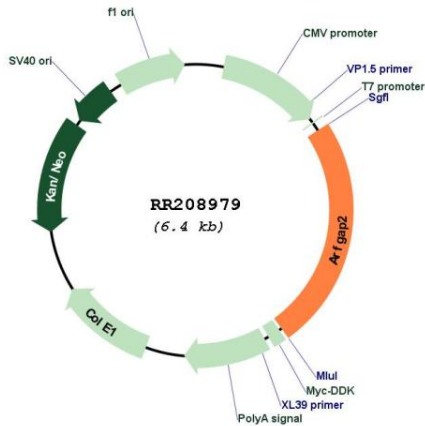
RefSeq ORF: 1563 bp

Locus ID: 362162

UniProt ID: [Q3MID3](#)

Cytogenetics: 3q24
MW: 56.6 kDa
Gene Summary: GTPase-activating protein (GAP) for ADP ribosylation factor 1 (ARF1). May regulate coatamer-mediated protein transport from the Golgi complex to the endoplasmic reticulum. Hydrolysis of ARF1-bound GTP may lead to dissociation of coatamer from Golgi-derived membranes to allow fusion with target membranes (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR208979