

Product datasheet for **RC214836**

AGAP1 (NM_014914) Human Tagged ORF Clone

Product data:

| | |
|--------------------|------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | AGAP1 (NM_014914) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | AGAP1 |
| Synonyms: | AGAP-1; CENTG2; cnt-g2; GGAP1 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



[View online »](#)

ORF Nucleotide
Sequence:

>RC214836 representing NM_014914
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGA~~ACT~~ACCAGCAGCAGCTGGCCA~~ACT~~CGGCTGCCATCCGGGCCGAGATCCAGCGCTTCGAGTCGGTCC
ACCCCAACATCTACTCCATCTACGAGCTGCTGGAGCGCGTGGAGGAGCCGGTGTGCAGAACCAGATCCG
GGAGCAGTCATCGCCATCGAAGATGCCTTCGTGAACAGCCAGGAATGGACGCTGAGTCGATCTGTCCCG
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GCACATATGTCCAGGAGGAGTCTCCGGAAGGTGGCAGGTTCAAGAAAGAGATTGTCGTTGATGGACAGAG
CTATCTGCTGCTGATCAGAGATGAAGGGGGCCCCCGAGGGCGCAGTTTGCCATGTGGGTGGACGCTGTT
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GAGGGTCAATCGATGACGCCAGGGCGAGGAAGCTCTCCAACGACCTGAAACGGTGCACGACTACGAGACG
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CGCGCAGGTGCTGCCGTGCACATCAGCCAGACAAGTAATGGAGGTGGGAGTTTAAAGCGACTATTCTCC
TCCGTTCCATCGACTCCCAGCACCAGCCAGAAGGAACTTCGGATCGATGTTTCTCCCACTGCCAACACGC
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CAAAGAGAAGAAAGGCCCTGGAGAGTCGTGCGGACAGCATTGGGAGCGGCCAGCCATCCCAATTAACAG
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ACAAATGGCGTGTGACCTATCATCCAGTTTACATGATTACATGCAGAATGTTTCATGGTAAGGAGATTGA
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TCCAGCCCTAAAACCAATGGCCTATCCAAGGACATGAGCAGTTTACACATCTCACCAATTCCAGACACAG
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TACGGCTGCCCGACGAGCGCTTCGTGCTCATGGCCACCCCTAACCTGTCCAGGAGAAACAATAACCGGA
ACAACAGCAGTGGGAGGGTGCCACCATCATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214836 representing NM_014914
Red=Cloning site Green=Tags(s)

MNYQQQLANSAAIRAEIQRFEVHPNIYSIYELLERVEEVLQIQIREHVIAIEDAFVNSQEWTLRSVPELKVGI VGNLASGKSALVHRYL TGTYYVQEE SPEGGRFKKEIVVDGQSYLLLIRDEGGPPEAQFAMWVDAVIFVFSLEDEISFQT VYHYYSR MANYRNTSEIPLVLVGTQDAISSANPRVIDDARARKLSNDLKRCTYYETCATYGLNVERVFQDVAQKIVATRKKQQLSIGPCKSLPNSPSHSSVCSAQVSAVHISQTSNGGGSLSDYSSVSPSTPSTSQKELRIDVPPTANTPTPVRKQSKRRSNLFTSRKGS DPDKKKGLESRADSIGSGRAIPIKQGMLLKRS GKS LNKEWKKKYVTLCDNGVLT YHPSLHDYMQNVHGKEIDLRTTVKVPGRPPRATSACAPISSPKTNGLSKDMSLHISPNSDTGLGDSVCSSPISSTTSPKLDPPPSPHANRKKHRRKSTSNFKADGLSGTAAEQEENFEFIIIVSLTGQTWHF EATTYEERDAWVQAI ESQILASLQSC ESSKNKSRLTSQSEAMALQ SIRNMRGNSHCVD CETQNPNWASLNLGALMCIECSGIHRNLGTHLSRVRS LD LDDWPVELIKVMSSIGNE LANSVWEESSQGR TKPSVDSTREEKERWIRAKYEQKFLAPLPCTELSLGQHLLRATADEDLRTAILLLAHGSRDEVNETCGEGDGR TALHLACRKG NVVLAQLLIWYGV DVTARDAHGNTALAYARQASSQECIDVLLQYGC PDERFVLMATPNLSRRNNRRNNSSGRVPTII

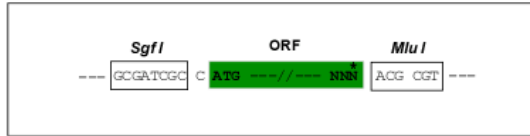
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4242_f02.zip

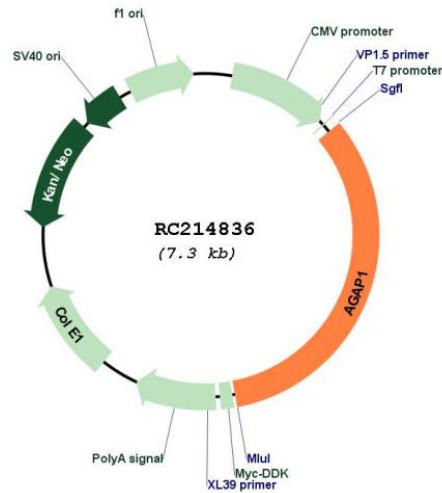
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_014914

ORF Size: 2412 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.

RefSeq: [NM_014914.5](#)

RefSeq Size: 4078 bp

RefSeq ORF: 2415 bp

Locus ID: 116987

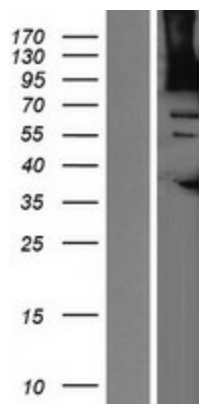
Domains: ArfGap, PH, ANK, RAS, RAB

Protein Pathways: Endocytosis

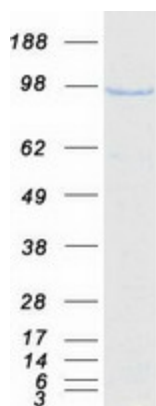
MW: 88.9 kDa

Gene Summary: This gene encodes a member of an ADP-ribosylation factor GTPase-activating protein family involved in membrane trafficking and cytoskeleton dynamics. This gene functions as a direct regulator of the adaptor-related protein complex 3 on endosomes. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

Product images:



Western blot validation of overexpression lysate (Cat# [LY402388]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214836 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AGAP1 protein (Cat# [TP314836]). The protein was produced from HEK293T cells transfected with AGAP1 cDNA clone (Cat# RC214836) using MegaTran 2.0 (Cat# [TT210002]).