

## Product datasheet for **RG214836**

### **AGAP1 (NM\_014914) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	AGAP1 (NM_014914) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AGAP1
Synonyms:	AGAP-1; CENTG2; cnt-g2; GGAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214836 representing NM\_014914  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGA~~ACT~~ACCAGCAGCAGCTGGCCA**ACT**CGGCTGCCATCCGGGCCGAGATCCAGCGCTTCGAGTCGGTCC  
 ACCCCAACATCTACTCCATCTACGAGCTGCTGGAGCGCGTGGAGGAGCCGGTGTGCAGAACCCAGATCCG  
 GGAGCAGTCATCGCCATCGAAGATGCCTTCGTGAACAGCCAGGAATGGACGCTGAGTCGATCTGTCCCG  
 GAGCTCAAAGTGGGAATTGTGGTA**ACT**TGGCCAGCGGCAAGTCTGCCCTGGTGCACCGGTACCTGACGG  
 GCACATATGTCCAGGAGGAGTCTCCGGAAGGTGGCAGGTTCAAGAAAGAGATTGTCGTTGATGGACAGAG  
 CTATCTGCTGCTGATCAGAGATGAAGGGGGCCCCCGAGGGCGCAGTTTGCCATGTGGGTGGACGCTGTT  
 ATATTTGTCTTCAGCTTGAGGATGAAATAAGTTTCCAGACCGTTTACCCTACTACAGTCGAATGGCCA  
 ACTATCGGAACACGAGCGAGATTCTCTGGTTCTGGTGGGAACCCAGGATGCCATAAGTTCTGCTAACCC  
 GAGGGTCAATCGATGACGCCAGGGCGAGGAAGCTCTCCAACGACCTGAAACGGTGCACGACTACGAGACG  
 TGTGCTACATACGGGCTGAATGTGGAGAGGGTCTTCCAGGACGTTGCCAGAAAGATTGTTGCCACAAGGA  
 AGAAGCAGCAGCTGTCCATAGGACCCCTGCAAGTCGCTACCTAATTCTCCCAGCCATTCTCCGTCTGTTCC  
 CGCGCAGGTGTCTGCCGTGCACATCAGCCAGACAAGTAATGGAGGTGGGAGTTTAAAGCGACTATTCTCC  
 TCCGTTCCATCGACTCCCAGCACCAGCCAGAAGGA**ACT**TCCGATCGATGTTCTCCCACTGCCAACACGC  
 CCACGCCCGTTTCCGAAGCAGTCTAAGCGCCGGTCCAACCTGTTCACTCTCGAAAGGGAGCGACCCAGA  
 CAAAGAGAAGAAAGCCCTGGAGAGTCGTGCGGACAGCATTGGGAGCGGCCAGCCATCCCAATTAACAG  
 GGCATGCTGTTGAAGCGAAGTGGCAAATCGTTGAATAAAGAGTGGAAAAAGAAATATGTCACCCCTGTGTG  
 ACAATGGCGTGTGACCTATCATCCAGTTTACATGATTACATGCAGAATGTTTCATGGTAAGGAGATTGA  
 CCTTCTGAGAACCCTGTGAAAGTCCCAGGGAAGAGGCCACCCCGAGCCACGTCAGCCTGCGCACCCATC  
 TCCAGCCCTAAAACCAATGGCCTATCCAAGGACATGAGCAGTTTACACATCTCACCAATTCAGGGAATG  
 TCACTAGTGCATCTGGGTCTCAGATGGCAAGCGGCATCAGCCTGGTCTCCTTCAACAGCCGACCCGACGG  
 CATGCACCAGCGCTCCTACTCAGTCTCCAGTGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG214836 representing NM\_014914  
 Red=Cloning site Green=Tags(s)

MNYQQQLANSAAIRAEIQRFEVHPNIYSIYELLERVEEVLQNIQIREHVIAIEDAFVNSQEWLRSRVP  
 ELKVGIVGNLASGKSALVHRYL TGTYYVQEE SPEGGRFKKEIVVDGQSYLLLIRDEGGPPEAQFAMWVDAV  
 IFVFSLEDEISFQTVYHYYSRMANRYRNTSEIPLVLVGTQDAISSANPRVIDDARARKLSNDLKRCTYYET  
 CATYGLNVERVFQDVAQKIVATRKKQQLSIGPCKSLPNSPSHSSVCSAQVSAVHISQTSNNGGSLSDYSS  
 SVPSTPSTSQKELRIDVPPTANTPTPVRKQSKRRSNLFTSRKGSDDPKKGLKESRADSIGSGRAIPIKQ  
 GMLLKRSGKSLNKEWKKKYVTLCDNGVLTYPHSLHDMQNVHGKEIDLLRRTTVKVPKRPPrATSACAPI  
 SSPKTNGLSKDMSLHISPNSGNVTSASGSQMASGISLVSFNSRPDGMHQRSYSVSSA

**TR**TRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_014914

**ORF Size:** 1434 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\\_014914.2](#), [NP\\_055729.1](#)

**RefSeq Size:** 4078 bp

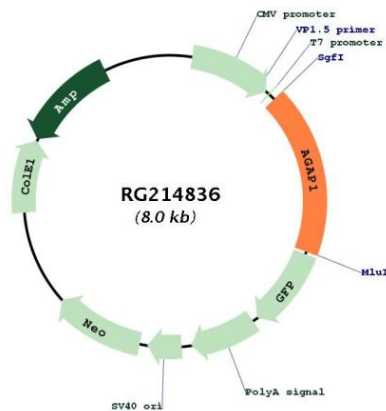
**RefSeq ORF:** 2415 bp

**Locus ID:** 116987

**UniProt ID:** [Q9UPQ3](#)

**Cytogenetics:** 2q37.2  
**Domains:** ArfGap, PH, ANK, RAS, RAB  
**Protein Pathways:** Endocytosis  
**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:**



Circular map for RG214836