

## Product datasheet for **RG207421**

### AFAP (AFAP1) (NM\_021638) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AFAP (AFAP1) (NM_021638) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AFAP
Synonyms:	actin filament-associated protein, 110 kDa; actin filament associated protein 1; AFAP; AFAP, AFAP-110; AFAP-110; FLJ56849; OTTHUMP00000155170
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG207421 representing NM\_021638  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAAGAGTTAATAGTTGAACTTCGTCTCTTTCTTGAACCTCCTGGACCATGAATATCTAACCTCAACTG  
 TCAGGGAGAAAAAGGCAGTGATAACCAACATTCTGCTAAGAATACAGTCATCCAAAGTTTTGATGTGAA  
 GGACCATGCTCAGAAGCAGGAGACCGCTAACAGCCTGCCAGCCCTCCTCAGATGCCCTGCCGGAGATC  
 CCTCAGCCCTGGCTGCCTCCTGACAGTGGGCTCCACCATTGCCAACATCCTCCCTCCCAGAAGTTATT  
 ATGAGGAAGCTGTGCCACTGAGCCCGAAAAGCTCCGGAATACATCACATCAAATTATGATTCCGATGC  
 GATGAGCAGCTCTTATGAGTCGTATGATGAAGAGGAGGAGGATGGGAAGGGGAAGAAAACCCGGCACCAG  
 TGGCCCTCCGAGGAGGCCTCCATGGACCTGGTCAAGGACGCCAAAATCTGCGCTTCCTGCTGCGGAAGA  
 AGCGGTTCCGCCAGTGGACCAAGTTGCTCTGCGTCATCAAAGACACCAAACCTGCTGTGCTATAAAAGTTC  
 CAAGGACCAGCAGCCTCAGATGGAAGTCCACTCCAAGGCTGTAACATTACGTACATCCCGAAAGACAGC  
 AAAAAGAAGAAGCACGAGCTGAAGATTACTCAGCAGGGCACGGACCCGCTTGTTCTCGCCGTCCAGAGCA  
 AGGAACAGGCCGAGCAGTGGCTGAAGGTGATCAAAGAAGCCTACAGTGGTTGTAGTGGCCCCGTGGATTC  
 AGAGTGTCTCTCCACCAAGCTCCCGGTGCACAAGGCAGAAGTGGAGAAGAACTGTCTTCAGAGAGA  
 CCCAGCTCAGATGGGGAGGGTGTGTGGAAAATGGAATTACCACATGTAATGGAAAGGAGCAAGTGAAGA  
 GGAAGAAAAGTTCAAAATCAGAGGCCAAGGGCACTGTGTGAAAGTCACTGGGAAAAAATCACCAAGAT  
 CATCAGTCTGGGAAAGAAAAGCCGTCCACAGACGAGCAGACCTCCTCAGCTGAGGAAGATGTTCCACC  
 TGCGGCTATCTGAACGTGCTCTCAACAGCCGCTGGCGAGAGCGCTGGTCCGAGTGAAGATAACAAGC  
 TCATTTTCCACAAGGACAGGACCGACTGAAGACCCATATTGTGTCTATTCCGCTCCGTGGCTGCGAGGT  
 GATCCCGGGTTTGGATTGTAACATCCTCTGACGTTCCGGCTGCTGCGCAACGGCCAGGAGGTTGCAGTA  
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 CAGACCCGGAGGCTCTGCACTATGACTACATTGATGTGGAGATGTCTGCAAGTGTCAATCAGACAGCCAA  
 ACAGACCTTCTGTTTCATGAACAGGCGTGTATATCTGCTAACCCATATCTAGGGGGCACCTCCAACGGC  
 TATGCCACCCAGCGGGACGGCACTTCAATATGACGATGTCCCGTGCATCAACGGCTCGCTCAAGGGTA  
 AAAAGCCCCCGTGGCGTCTAATGGGGTACAGGAAAAGGGAAGACTCTGAGCAGTCAGCCAAAGAAAGC  
 GGATCCCGCGGCTGTGTGAAAAGGACGGGTTCAATGCTGCCAGTACAAGTATGGCAAGAACCGGGTA  
 GAAGCAGATGCCAAGCGGCTACAGACCAAGAGGAGGAGCTGCTGAAGAGGAAAGAGGCCCTGCGGAATA  
 GGCTGGCCAGCTCCGCAAGGAAAGAAAAGACCTTCGAGCGGCTATTGAAGTGAACGCCGCGCAGGAAGCC  
 GCAGGCGATCCTGGAGGAGAAGCTGAAGCAGCTGGAGGAGGAGTGCCGGCAGAAGGAGGCCGAGCGTGT  
 AGCCTGGAGCTGGAGCTGACGGAGGTCAAGGAGAGCCTGAAGAAAAGCGCTGGCGGGCGGAGTCACCTGG  
 GGCTGGCCATCGAGCCCAAGTCAGGGACATCGAGTCCACAGTCTCCAGTGTTCGGCACCAGGACCTGGA  
 AAACCTCGCCATCTCCAGCTGTGACACCAAGTACACCGAGGGCCCGTCCCGGTGAACAGCGCGGCCGTC  
 TTGAAGAAGAGCCAGGCTGCCCGGGCAGCTCCCCCTGCCGAGGGCATGTGCTGCGGAAGGCCAAGGAAT  
 GGAATTGAAGAACGGGACC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG207421 representing NM\_021638  
Red=Cloning site Green=Tags(s)

```
MEELIVELRFLLELLDHEYLTVREKKAVITNILLRIQSSKGFVDKHAQKQETANSLPAPPQMPLEI
PQPWLPPDSGPPPLPTSSLPEGYYEEAVPLSPGKAPEYITSNYDSAMSSSYESYDEEEEDGKGGKTRHQ
WPSEEASMDLVKDAKICAFLLRKRFGQWTKLLCVIKDTKLLCYKSSKDQQPMELPLQGCNITYIPKDS
KKKKHELKIQGTDPDLVAVQSKEQAEQWLKVIKEAYSGCSGPVDESECPPPPSSPVHKALEKLSER
PSSDGEVVENGIITTCNGKEQVKKRKSSEAKGTVSKVTGKKITKIIISLGKKKPTDEQTSAAEEDVPT
CGYLNVLNSRWREWRVKNKLI FHKDRDLDLTHIVSIPLRGCEVIPGLDCKHPLTFRLLRNGQEVAV
LEASSSEMGRWIGILLAE TGSSTDPEALHYDYIDVEMASVIQTAKQTF CFMNRVVISANPYLGGTSNG
YAHPSGTALHYDDVPCINGSLGKGGKPPVANGVTGKGKTLSSQPKADPAAVVKRTGSNAAQYKYGNRV
EADAKRLQTKEEELLKRKEALNRLAQLRKERKDLRAAIEVNAGRKPQAILEELKQLEEECRQKEAERV
SLELEL TEVKESLKKALAGVTLGLAIEPKSGTSSPQSPVFRHRTLENSPISSCDTSDETEGPVNSAAV
LKKSQAAPGSSPCRGHVLRKAKEWELKNGT
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_021638

**ORF Size:** 2190 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\\_021638.4](#), [NP\\_067651.2](#)

**RefSeq Size:** 7479 bp

**RefSeq ORF:** 2192 bp

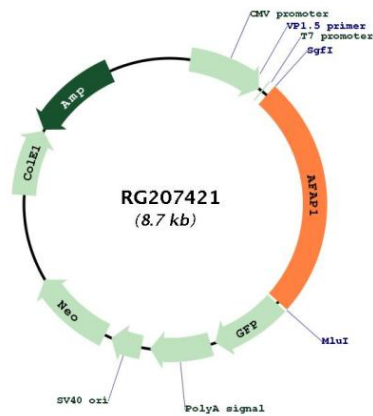
**Locus ID:** 60312

**Cytogenetics:** 4p16.1

**Domains:** PH

**Gene Summary:** The protein encoded by this gene is a Src binding partner. It may represent a potential modulator of actin filament integrity in response to cellular signals, and may function as an adaptor protein by linking Src family members and/or other signaling proteins to actin filaments. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]

### Product images:



Circular map for RG207421