

Product datasheet for **RC207421**

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:	Myc-DDK
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-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC207421 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGAAGAGTTAATAGTTGAACCTCGTCTCTTTCTTGAACCTCGGACCATGAATATCTAACCTCAACTG
 TCAGGGAGAAAAAGGCAGTGATAACCAACATTCTGCTAAGAATACAGTCATCCAAAGTTTTGATGTGAA
 GGACCATGCTCAGAAGCAGGAGACCGCTAACAGCCTGCCAGCCCCCTCTCAGATGCCCTGCCGGAGATC
 CCTCAGCCCTGGCTGCCTCCTGACAGTGGGCTCCACCATTGCCAACATCCTCCCTCCAGAAGGTTATT
 ATGAGGAAGCTGTGCCACTGAGCCCCGAAAAGCTCCGGAATACATCACATCAAATTATGATTCCGATGC
 GATGAGCAGCTCTTATGAGTCGTATGATGAAGAGGAGGAGGATGGGAAGGGGAAGAAAACCCGGCACCAG
 TGGCCCTCCGAGGAGGCTCCATGGACCTGGTCAAGGACGCCAAAATCTGCGCTTCTGCTGCGGAAGA
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 TTGAAGAAGAGCCAGGCTGCCCCGGGCAGCTCCCCCTGCCGAGGGCATGTGCTGCGGAAGGCCAAGGAAT
 GGAATTGAAGAACGGGACC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC207421 protein sequence
 Red=Cloning site Green=Tags(s)

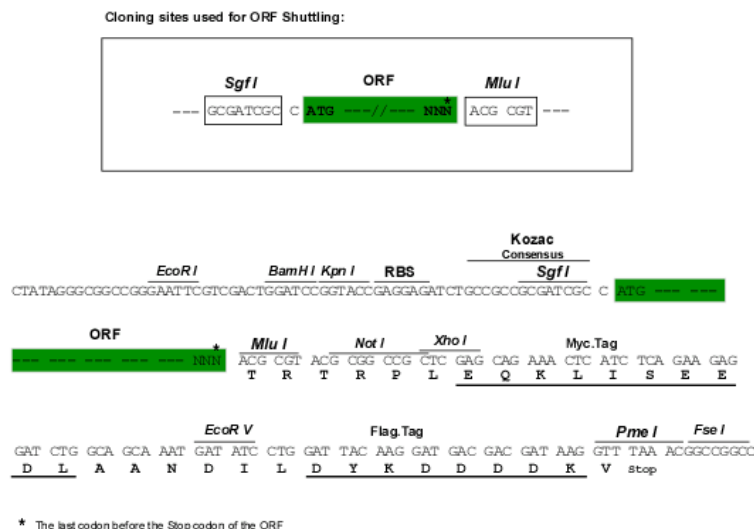
MEELIVELRLFLELLDHEYL TSTVREKKAVITNILLRIQSSKGFVDKHAQKQETANSLPAPPQMPLPEI
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 WPSEEASMDLVKDAKICAFLLRKKRFGQWTKLLCVIKDTKLLCYKSSKDQQPMELPLQGCNITYIPKDS
 KKKKHELKITQQGTDPLVLAVQSKEQAEQWLKVIKEAYSGCSGPVDECP PPPSPVHKAELEKKLSSER
 PSSDGEVVENGITTCNGKEQVKRKKSSKSEAKGT VSKVTGKKITKIIISLGKKKPSTDEQTSSAEEDVPT
 CGYLNVLNSNRWRERWCRVKDNKLI FHKDRTDLKTHIVSIPLRGCEVIPGLDCKHPLTFRLLRNGQEVAV
 LEASSSEDMGRWIGILLAETGSSTDPEALHYDYIDVEMSASVIQTAKQTF CFMNRVRISANPYLGGTSNG
 YAHPSGTALHYDDVPCINGSLKGKKPPVASNGVTGKGKTLSSQPKKADPAAVVKRTGSNAAQYKGNRV
 EADAKRLQTKEEELLKRKEALNRNLAQLRKERKDLRAAIEVNAGRKPQAILEEKLQLEEERQKEAERV
 SLELEL TEVKESLKKALAGGVTGLAIEPKSGTSSPQSPVFRHRTLENSPISSCDTSDTEGPVPVNSAAV
 LKKSQAAPGSSPCRGHVLRKAKEWELKNGT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6140_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_021638

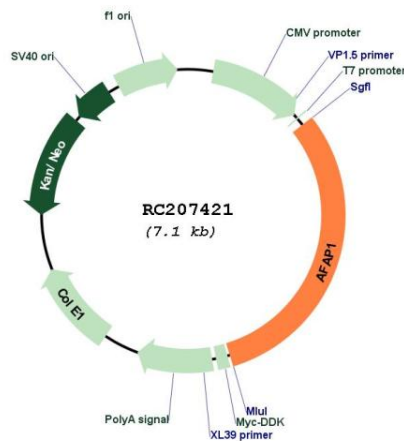
ORF Size: 2190 bp

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](#)

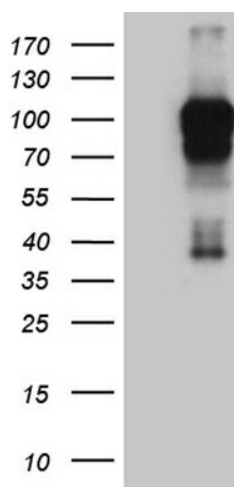
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_021638.4, NP_067651.2</u>
RefSeq Size:	7479 bp
RefSeq ORF:	2192 bp
Locus ID:	60312
Cytogenetics:	4p16.1
Domains:	PH
MW:	80.7 kDa
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]

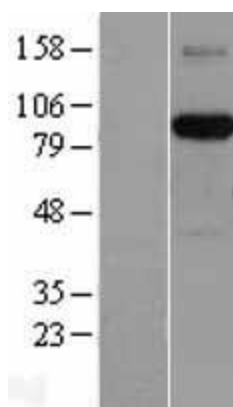
Product images:



Circular map for RC207421



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY AFAP1 (Cat# RC207421, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-AFAP1 (Cat# [TA810438])(1:2000). Positive lysates [LY402869] (100ug) and [LC402869] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402869]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207421 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).