

## Product datasheet for **MG210338**

### Afap1 (NM\_027373) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Afap1 (NM_027373) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Afap1
Synonyms:	2600003E23Rik; 9630044L16Rik; Afap; AI848729; mKIAA3018
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG210338 representing NM\_027373  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAAGAGTTAATAGTTGAACTCCGCCTCTTTCTGGAGCTCCTGGACCACGAGTACCTCACATCAACTG  
 TCAGAGAGAAAAAGGCTGTGCTACCAACATCCTGCTGCGCCTGCAGTCATCCAAGGCTTTGAAGTGAA  
 GGACCATGCTCAGAAGGCAGAGGCCAACAACTGCCGGCACACCCAGATGCCTCTGCCGAGATCCCT  
 CAGCCATGGCTGCCTCCTGACAGCGGGCCTCCGCCTTTACCAACGTCCTCTCTCCAGAGGGTTACTATG  
 AGGAAGCCGTGCCCTGAGCCCTGGGAAAGCTCCAGAGTACATCACCTCAAATTAGACTCTGATGCCAT  
 GAGCAGTTCCTATGAGTCATATGATGAAGAGGAAGAGGACGGGAAGGGGAAGAAAACCTCGGCATCAGTGG  
 CCGTCAGAGGAGGCTCTATGGACCTGGTAAAGACGCCAAGATCTGTGCCTTCTGCTGCGCAAGAAAAC  
 GCTTTGGCCAGTGGACCAAGCTGCTCTGCGTCATCAAAGACCCAAGCTGCTGTGCTATAAAAGTCCAA  
 GGACCAGCAGCTCAGATGGAGCTGCCGCTGCAGGGCTGCAGTATCACATACATCCCGAGAGACAGCAAG  
 AAGAAGAAAACACGAGCTGAAAATCACCCAGCAAGGCACAGACCCTCTGGTTCTAGCTGTTAGAGCAAGG  
 AACAGGCTGAGCAGTGGTTGAAGGTAATCAAAGAGCCTACAGTGGCTGTAGCGGGCCCGTGGATCCGGA  
 ATGTTCTCCACCACCCAGCACCAGCGCCCCGTGAACAAGGCAGAACTGGAGAAGAAAATTGCTTTCAGAG  
 AGGCCAGCTCTGATGGAGAAGTGGTGTGAAAAACGGAGTCACCACGTGTAATGGAAAAGAACAAAGCAA  
 AGAGGAAGAAACCTTCCAAGTCAGAGGCCAAGGGGACTGTGTCCAAGGTCACTGGGAAGAAAATTACCAA  
 GATCATCGGTCTGGGAAAGAAGAAGCCATCCACAGATGAGCAGACATCATCAGCAGAGGAGGATGTGCC  
 ACTTGTGGCTACCTGAATGTGCTCTCTAACAGCCGCTGGCGGGAGCGCTGGTGCAGAGTGAAGGACAGCA  
 AACTCATTCTCCACAAGGACAGGGTGACCTGAAGACCCACCTCGTCTCCATCCCCTCCGTGGTGGCA  
 GGTGATCCCGGGCTGGATTCTAAGCACCCGTTGACCTTCCGGCTGCTTCGAAAACGGACAGGAGGTGGCT  
 GTTCTAGAGGCATCATCGTCTGAAGACATGGGCAGGTGGATTGGCATCTTGTGGCTGAGACGGGTCTCT  
 CCACGGACCCAGGAGCGCTGCACTACGACTACATCGATGTGGAGATGTCAGCAAATGTCATCCAGACGGC  
 GAAACAGACCTTCTGCTTATGAACAGGCGGGCAGTGTCCACTAGCCCATACCTGGGGAGCCTCTCCAAC  
 GGCTACGCCCATCCAGTGGGACAGCACTACACTATGATGACGTCCCCTGTGTCAACGGCTCGTTGAAGA  
 ACAAAAAACCGCCAGCGTCATCTAATGGGGTCTCTGTAAGGGGAAGGCTCCCAGCAGTCAGCAAAAAAA  
 GGTGGAAGTGCAGGTGGTGTGAAACGGACAGCATCAAATGCTGAGCAGTACAAATATGGGAAGAACCGG  
 GTAGAAGCAGATGCCAAGCGTTACAGTCAAAGAGGAAGAGCTGCTGAAGAGGAAGAGGCCCTACGGA  
 ACAGGCTGGCACAGCTGCGGAAAGAGAGGAAGGACCTGAGGGCCGCCATCGAAGTGAATGCAGGCAGGAA  
 GACCCAGGCAGCTCTGGAGGACAAGTTGAAGAGGCTGGAGGAAGAGTGAAGCAGAGGGAGGCGGAGCGT  
 GTCAGCCTGGAGCTGGAGCTGACCGAGGTCAAGGAGAGCCTGAAGAAGGCCTTGGCGGGTGGCGTACCC  
 TAGGACTGGCCATCGAGCCAGGTCAAGGACATCCAGTCCACAGTCTCCTGTGTTTCGGCATCGGACTCT  
 GGAAAATTCTCCCATCTCCAGCTGTGATACAAGCGATGCTGAGGGGCTTTGCCTGTGAACAGTGCAGCC  
 GTCCTGAAGAAGAGCCAGCCGCTCCTCAGGCAGTCCCCCTGCCGTGGCCACGTGCTGCAGAAGGCCAAGG  
 AGTGGGAGCTGAAGAATGGGACA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

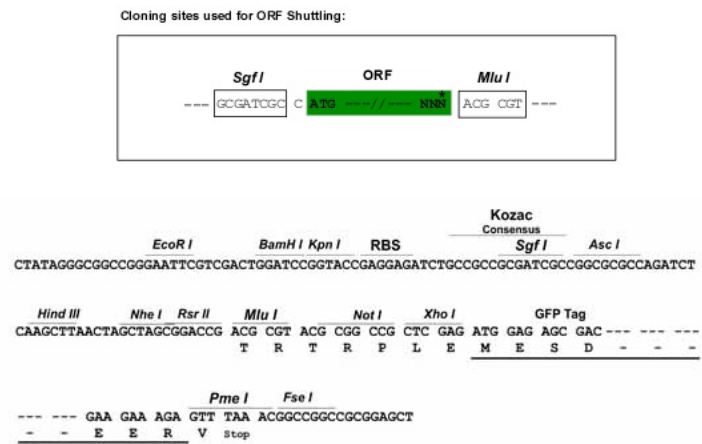
**Protein Sequence:** >MG210338 representing NM\_027373  
Red=Cloning site Green=Tags(s)

```
MEELIVELRFLLELLDHEYL TSTVREKKA VL TNILLRLQSSKGFVEVDHAQKAEANL PAPPQMPLPEIP
QPWLPPDSGPPPLPTSS LPEGYEEAVPLSPGKAPEYITSNYSDAMSSSYESYDEEEEDGKGGKTRHQW
PSEEASMDLVKDAKICAFLLRKKRFGQWTKLLCVIKDTKLLCYKSSKDQQPMELPLQGCSITYIPRDSK
KKKHELK I TQQGTDPLVLAVQSKEQAEQWLKVIKEAYS GCSPVDPECSPPPSTSAPVNKAELEKLLSSE
RPSSDGE GGVENGVTTCNGKEQAKRKKPSKSEAKGTVSKVTGKKITKII IGLGKKKPTDEQTSSAEDV P
TCGYLNVLSNSRWRERWCRVKDSK LILHKDRADL KTHL VSIPLRGCEVIPGLDSKHPLTFRLLRNGQEVA
VLEASSSEDMGRWIGILLAETGSSTDPGALHYDYIDVEMSANVIQTAKQTF CFMNRRAVSTSPYLGSLSN
GYAHPSTALHYDDVPCVNGSLKNKKPPASSNGVPVKGKAPSSQKKVETAGGVKRTASNAEQYKYGKNR
VEADAKRLQSKEEELLKRKEALRNRLAQLRKERKDLRAAIEVNAGRKTQAALEDKLRLEEECKQREAE R
VSLELEL TEVKESLKKALAGGVT LGLAIEPRSGTSSPQSPVFRHRTL ENSPISSCDTSDAEGPLVNSAA
VLKKSQPSSGSSPCRGHV LQKAKEWELKNGT
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_027373

**ORF Size:** 2193 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\\_027373.2](#), [NP\\_081649.1](#)

**RefSeq Size:** 6617 bp

**RefSeq ORF:** 2196 bp

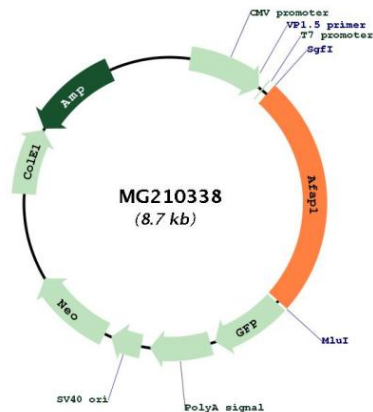
**Locus ID:** 70292

**UniProt ID:** [Q80YS6](#)

**Cytogenetics:** 5 B3

**Gene Summary:** Can cross-link actin filaments into both network and bundle structures. May modulate changes in actin filament integrity and induce lamellipodia formation. May function as an adapter molecule that links other proteins, such as SRC and PKC to the actin cytoskeleton (By similarity).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG210338