

## Product datasheet for **RC234498**

### **A1CF (NM\_001198818) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	A1CF (NM_001198818) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	A1CF
Synonyms:	ACF; ACF64; ACF65; APOBEC1CF; ASP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234498 representing NM\_001198818  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAATCAAATCACAAATCCGGGGATGGATTGAGCGGCACTCAGAAGGAAGCAGCCCTCCGCGCACTGG  
 TCCAGCGCACAGGATATAGCTTGGTCCAGGAAAATGGACAAAGAAAATATGGTGGCCCTCCACCTGGTTG  
 GGATGCTGCACCCCTGAAAGGGCTGTGAAATTTTTATTGAAAACTCCCCGAGACCTTTTTGAGGAT  
 GAGCTTATACCATTATGTAAAAATCGGTAAAATTTATGAAATGAGAATGATGATGGATTTAATGGCA  
 ACAATAGAGGATATGCATTTGTAACATTTTCAAATAAAGTGAAGCCAAGAATGCAATCAAGCAACTTAA  
 TAATTATGAAATTAGAAATGGGCGCTCTTAGGGTTTGTGCCAGTGTGGACAACTGCCGATTATTTGTT  
 GGGGCGATCCCAAAAACCAAAAAGAGAGAAGAAATCTTATCGGAGATGAAAAAGTTACTGAAGGTGTTG  
 TCGATGTCATCGTCTACCAAGCGCTGCAGATAAAACCAAAAACCGAGGCTTTGCCTTCGTGGAGTATGA  
 GAGTCATCGAGCAGCTGCCATGGCGAGGAGGAACTGCTACCAGGAAGAATTCAGTTATGGGACATGGT  
 ATTGCAGTAGACTGGGCAGAGCCAGAAGTAGAAGTTGATGAAGATACAATGTCTTCAGTGAAAAATCCTAT  
 ATGTAAGAAATCTTATGCTGTCTACCTCTGAAGAGATGATTGAAAAGGAATTCACCAATATCAAACCAGG  
 TGCTGTGGAGAGGGTGAAGAAAATTCGAGACTATGCTTTTGTGCACTTCAGTAACCGAGAAGATGCAGTT  
 GAGGCTATGAAAGCTTTAAATGGCAAGGTGCTGGATGGTTCACCCATTGAAGTACCCTAGCAAAACCAG  
 TGGACAAGGACAGTTATGTTAGGTATACCCGAGGCACAGGTGGAAGGGGACCATGCTGCAAGGAGAGTA  
 TACCTACTCTTTGGCCAAGTTTATGATCCCACCACAACCTACCTGGAGCTCCTGTCTTCTATGCCCCC  
 CAGACCTATGCAGCAATCCAGTCTTCAATTTCCAGCCACCAAAGGACATCTCAGCAACAGAGCCATTA  
 TCCGAGCCCTTCTGTTAGAGGGCTCGGGAGTGAGAGGACTGGGCGGCCGTGGCTATTTGGCATACAC  
 AGGCCTGGTTCGAGGATACCAAGTCAAAGGAGACAAAAGAGAAGACAAACTCTATGACATTTTACCTGGG  
 ATGGAGCTCACCCAATGAATCCTGTACATTAATAACCCCAAGGAATTAACCTCGCTCCCCAGATATTAG  
 AAGAGATTTGTCAGAAAAATAACTGGGGACAGCCAGTGTACCAGCTGCACTCTGCTATTGGACAAGACCA  
 AAGACAGCTATTCTTGTACAAAAATACTATTCTGCTCTAGCCAGCCAGAATCCTGCAATCCACCCTTTC  
 ACACCTCAAAGCTGAGTGCCTTTGTGGATGAAGCAAAGACGTATGCAGCCGAATACACCCTGCAGACCC  
 TGGGCATCCCACTGATGGAGGCGATGGCACCATGGCTACTGCTGCTGCTGCTACTGCTTTCCAGG  
 ATATGCTGTCCTAATGCAACTGCACCCGTGTCTGCAGCCAGCTCAAGCAAGCGGTAACCTTGGACAA  
 GACTTAGCAGCATATAACAACCTATGAGGTCTACCAACTTTTGCAGTGACTGCCGAGGGATGGATATG  
 GCACCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234498 representing NM\_001198818  
 Red=Cloning site Green=Tags(s)

MESNHKSGDGLSGTQKEAALRALVQRTGYSLVQENGQRKYGGPPPGWDAAPPERGCEIFIGKLPDLFED  
 ELIPLCEKIGKIYEMRMMDFNGNRRGYAFVTFSNKVEAKNAIKQLNNEYIRNGRLLGVCASVDNCRFLV  
 GGIPKTKKREEILSEMKKVTEGVVDVIVYPSAADKTKNRGFAFVEYESHRAAAMARRKLLPGRIQLWGHG  
 IAVDWAEPVEVEDTMSVKILYVRNMLSTSEEMIEKEFNNIKPGAVERVKKIRDYAFVHFSNREDAV  
 EAMKALNGKVLGSPIEVTLAKPVDKDSYVRYTRGTGGRGTMQLQGEYTYSLGQVYDPTTTYLGAPVFYAP  
 QTYAAIPSLHFPATKGHLNRAIIRAPSVRGAAGVRGLGGRGYLAYTGLGRGYQVKGDKREDKLYDILPG  
 MELTPMNPVTLKPOGIKLAQILEEICQKNNWGPVYQLHSAIGDQDQRLFLYKITIPALASQNPATHPF  
 TPKLSAFVDEAKTYAAEYTLQTLGIPTDGGDMATAAAAAATAFPGYAVPNATAPVSAQLKQAVTLGQ  
 DLAAAYTTYEVYPTFAVTARGDGYGTF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8068\\_e01.zip](https://cdn.origene.com/chromatograms/mk8068_e01.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001198818

ORF Size: 1758 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\\_001198818.1](#), [NP\\_001185747.1](#)

RefSeq Size: 9362 bp

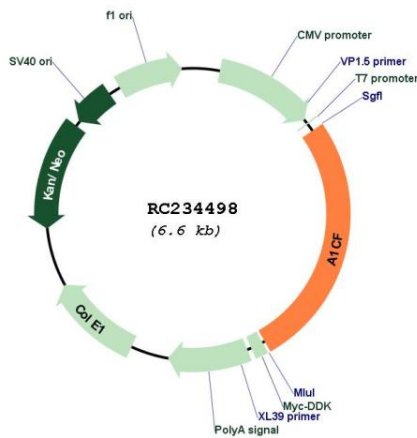
RefSeq ORF: 1761 bp

Locus ID: 29974

**UniProt ID:** [Q9NQ94](#)  
**Cytogenetics:** 10q11.23  
**MW:** 64.3 kDa

**Gene Summary:** Mammalian apolipoprotein B mRNA undergoes site-specific C to U deamination, which is mediated by a multi-component enzyme complex containing a minimal core composed of APOBEC-1 and a complementation factor encoded by this gene. The gene product has three non-identical RNA recognition motifs and belongs to the hnRNP R family of RNA-binding proteins. It has been proposed that this complementation factor functions as an RNA-binding subunit and docks APOBEC-1 to deaminate the upstream cytidine. Studies suggest that the protein may also be involved in other RNA editing or RNA processing events. Several transcript variants encoding a few different isoforms have been found for this gene. [provided by RefSeq, Nov 2010]

**Product images:**



Circular map for RC234498