

## Product datasheet for **RG216861**

### **A1CF (NM\_138932) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	A1CF (NM_138932) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	A1CF
Synonyms:	ACF; ACF64; ACF65; APOBEC1CF; ASP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG216861 representing NM\_138932  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAATCAAATCACAAATCCGGGGATGGATTGAGCGGCACTCAGAAGGAAGCAGCCCTCCGCGCACTGG  
 TCCAGCGCACAGGATATAGCTTGGTCCAGGAAAATGGACAAAGAAAATATGGTGGCCCTCCACCTGGTTG  
 GGATGCTGCACCCCTGAAAGGGCTGTGAAATTTTTATTGAAAACTCCCCGAGACCTTTTTGAGGAT  
 GAGCTTATACCATTATGTGAAAAATCGGTAAAATTTATGAAATGAGAATGATGATGGATTTAATGGCA  
 ACAATAGAGGATATGCATTTGTAACATTTTCAAATAAAGTGAAGCCAAGAATGCAATCAAGCAACTTAA  
 TAATTATGAAATTAGAAATGGGCGCTCTTAGGGTTTGTGCCAGTGTGGACAACGCCGATTATTTGTT  
 GGGGCGATCCCAAAAACCAAAAAGAGAGAAGAAATCTTATCGGAGATGAAAAAGTTACTGAAGGTGTTG  
 TCGATGTCATCGTCTACCAAGCGCTGCAGATAAAAACCAAAACCGAGGCTTTGCCTTCGTGGAGTATGA  
 GAGTCATCGAGCAGCTGCCATGGCGAGGAGGAACTGCTACCAGGAAGAATTCAGTTATGGGACATGGT  
 ATTGCAGTAGACTGGGCAGAGCCAGAAGTGAAGTTGATGAAGATACAATGTCTTCAGTGAAAAATCCTAT  
 ATGTAAGAAATCTTATGCTGTCTACCTCTGAAGAGATGATTGAAAAGGAATCAACAATATCAAACCCAGG  
 TGCTGTGGAGAGGGTGAAGAAAATTCGAGACTATGCTTTTGTGCACTTCAGTAACCGAGAAGATGCAGTT  
 GAGGCTATGAAAGCTTTAAATGGCAAGGTGCTGGATGGTTCACCCATTGAAGTACCCTAGCAAAACCCAG  
 TGGACAAGGACAGTTATGTTAGGTATACCCGAGGCACAGGTGGAAGGGGACCATTGCTGCAAGGAGAGTA  
 TACCTACTCTTTGGCCAAGTTTATGATCCCACCACAACCTACCTGGAGCTCCTGTCTTCTATGCCCC  
 CAGACCTATGCAGCAATCCAGTCTTCAATTTCCAGCCACCAAGGACATCTCAGCAACAGAGCCATTA  
 TCCGAGCCCTTCTGTTAGAGAAAATTTACATGAATGACCTGTAGGGGCTGCGGGAGTGAAGGACTGGG  
 CGGCCGTGGCTATTTGGCATACACAGGCCTGGGTGAGGATACCGAGTCAAAGGAGACAAAAGAGAAGAC  
 AAATCTATGACATTTTACCTGGGATGGAGCTCACCCCAATGAATCCTGTACATTTAAAACCCCAAGGAA  
 TTAACCTCGTCCCAGATATTAGAAGAGATTTGTGAGAAAATAACTGGGGACAGCCAGTGTACCAGCT  
 GCACTCTGCTATTGGACAAGACCAAGACAGCTATTCTGTACAAAATAACTATTCCTGCTCTAGCCAGC  
 CAGAATCTGCAATCCACCCTTTCACACCTCCAAAGCTGAGTGCCTTTGTGGATGAAGCAAGACGTATG  
 CAGCCGAATACACCCTGCAGACCCTGGGCATCCCCTGATGGAGGCGATGGCACCATGGCTACTGCTGC  
 TGCTGCTGCTACTGCTTTCCAGGATATGCTGTCCCTAATGCAACTGCACCCGTGTCTGCAGCCAGCTC  
 AAGCAAGCGGTAACCCTGGACAAGACTTAGCAGCATATACAACCTATGAGGTCTACCAACTTTTGCAG  
 TGACTGCCCGAGGGGATGGATATGGCACCTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG216861 representing NM\_138932  
 Red=Cloning site Green=Tags(s)

MESNHKSGDGLSGTQKEAALRALVQRTGYSLVQENGQRKYGGPPPGWDAAPPERGCEIFIGKLPDLFED  
 ELIPLCEKIGKIYEMRMMDFNGNRRGYAFVTFVSNKVEAKNAIKQLNYYEIRNGRLLGVCASVDNCRFLV  
 GGIPKTKKREEILSEMKKVTEGVVDVIVYPSAADKTKNRGFAFVEYESHRAAAMARRKLLPGRIQLWGHG  
 IAVDWAEPEVEDEDTMSSVKILYVRNMLSTSEEMIEKEFNINIKPFAVERVKKIRDYAFVHFSNREDAV  
 EAMKALNGKVLDSPIEVTLAKPVDKDSYVRYTRGTGGRTMLQGEYTYSLGQVYDPTTYYLGPVYFAP  
 QTYAAIPSLHFPATKGHLNRAIIRAPSVREIYMNVPVGAAGVRGLGGRGYLAYTGLGRGYQVKGDKRED  
 KLYDILPGMELTPMNPVTLKQGIKLAPQILEEICQKNNWGPVYQLHSAIGDQRQLFLYKITIPALAS  
 QNPAIHPFTPPKLSAFVDEAKTYAAEYTLQTLGIPTDGGDGMTAAAAATAFPGYAVPNATAPVSAQQL  
 KQAVTLGQDLAAYTTYEYPTFAVTARGDGYGTF

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_138932

**ORF Size:** 1782 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\\_138932.2](#)

**RefSeq Size:** 2152 bp

**RefSeq ORF:** 1785 bp

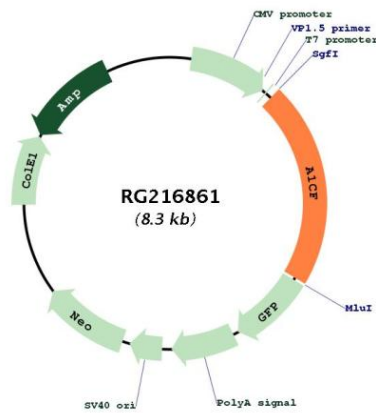
**Locus ID:** 29974

**UniProt ID:** [Q9NQ94](#)

**Cytogenetics:** 10q11.23

**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 RG216861