

Product datasheet for **RC216861**

A1CF (NM_138932) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	A1CF (NM_138932) 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:

>RC216861 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAATCAAATCACAAATCCGGGGATGGATTGAGCGGCACTCAGAAGGAAGCAGCCCTCCGCGCACTGG
 TCCAGCGCACAGGATATAGCTTGGTCCAGGAAAATGGACAAAGAAAATATGGTGGCCCTCCACCTGGTTG
 GGATGCTGCACCCCTGAAAGGGCTGTGAAATTTTTATTGAAAACTCCCCGAGACCTTTTTGAGGAT
 GAGCTTATACCATTATGTGAAAAATCGGTAAAATTTATGAAATGAGAATGATGATGGATTTAATGGCA
 ACAATAGAGGATATGCATTTGTAACATTTTCAAATAAAGTGAAGCCAAGAATGCAATCAAGCAACTTAA
 TAATTATGAAATTAGAAATGGGCGCTCTTAGGGTTTGTGCCAGTGTGGACAACGCCGATTATTTGTT
 GGGGCGATCCCAAAAACCAAAAAGAGAGAAGAAATCTTATCGGAGATGAAAAAGTTACTGAAGGTGTTG
 TCGATGTCATCGTCTACCAAGCGCTGCAGATAAAACCAAAAACCGAGGCTTTGCCTTCGTGGAGTATGA
 GAGTCATCGAGCAGCTGCCATGGCGAGGAGGAACTGCTACCAGGAAGAATTCAGTTATGGGGACATGGT
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 ATGTAAGAAATCTTATGCTGTCTACCTCTGAAGAGATGATTGAAAAGGAATTCACCAATATCAAACCCAGG
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 GAGGCTATGAAAGCTTTAAATGGCAAGGTGCTGGATGGTTCACCCATTGAAGTACCCTAGCAAAACCCAG
 TGGACAAGGACAGTTATGTTAGGTATACCCGAGGCACAGGTGGAAGGGGACCATGCTGCAAGGAGAGTA
 TACCTACTCTTTGGGCCAAGTTTATGATCCCACCACAACCTACCTGGAGCTCCTGTCTTCTATGCCCCC
 CAGACCTATGCAGCAATCCAGTCTTCCATTTCCAGCCACCAAGGACATCTCAGCAACAGAGCCATTA
 TCCGAGCCCTTCTGTTAGAGAAAATTTACATGAATGTACCTGTAGGGGCTGCGGGAGTGAGAGGATGGG
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 AAATCTATGACATTTTACCTGGGATGGAGCTCACCCCAATGAATCCTGTACATTTAAACCCCAAGGAA
 TTAACCTCGTCCCAGATATTAGAAGAGATTTGTGAGAAAATAACTGGGGACAGCCAGTGTACCAGCT
 GCACTCTGCTATTGGACAAGACCAAGACAGCTATTCTGTACAAAATAACTATTCCTGCTCTAGCCAGC
 CAGAATCTGCAATCCACCCTTTACACCTCCAAAGCTGAGTGCCTTTGTGGATGAAGCAAGACGTATG
 CAGCCGAATACACCCTGCAGACCCTGGGCATCCCCTGATGGAGGCGATGGCACCATGGCTACTGCTGC
 TGCTGCTGCTACTGCTTTCCAGGATATGCTGTCCCTAATGCAACTGCACCCGTGTCTGCAGCCAGCTC
 AAGCAAGCGGTAACCCTGGACAAGACTTAGCAGCATATACAACCTATGAGGTCTACCAACTTTTGCAG
 TGACTGCCCGAGGGGATGGATATGGCACCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216861 protein sequence
 Red=Cloning site Green=Tags(s)

MESNHKSGDGLSGTQKEAALRALVQRTGYSLVQENGQRKYGGPPPGWDAAPPERGCEIFIGKLPDLFED
 ELIPLCEKIGKIYEMRMMDFNGNNGRYAFVTFSNKVEAKNAIKLNNYEIRNGRLLGVCASVDNCRFLV
 GGIPKTKKREEILSEMKKVTEGVVDVIVYPSAADKTKNRGFAFVEYESHRAAAMARRKLLPGRIQLWGHG
 IAVDWAEPVEVEDTMSVKILYVRNMLSTSEEMIEKEFNINIKPFAVERVKKIRDYAFVHFSNREDAV
 EAMKALNGKVLGSPIEVTLAKPVDKDSYVRYTRGTGGRTMLQGEYTYSLGQVYDPTTTLGAPVFYAP
 QTYAAIPSLHFPATKGHLNRAIIRAPSVREIYMNVPVGAAGVRGLGGRGYLAYTGLGRGYQVKGDKRED
 KLYDILPMELTPMNPVTLKPQGIKLPQILEEICQKNNWGPVYQLHSAIGDQRQLFLYKITIPALAS
 QNPAIHPFTPPKLSAFVDEAKTYAAEYTLQTLGIPTDGGDGMATAAAAAATAFPYAVPNATAPVSAAQL
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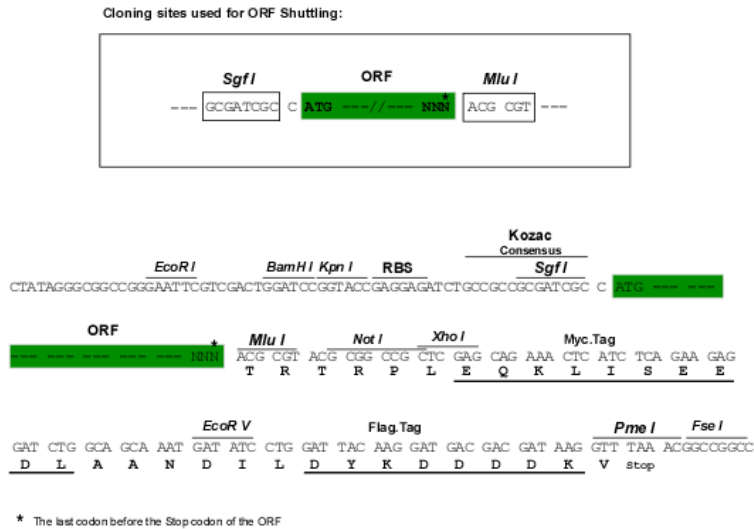
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6606_b04.zip

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: 9293 bp

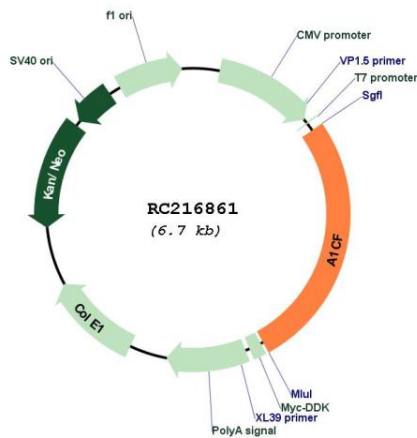
RefSeq ORF: 1785 bp

Locus ID: 29974

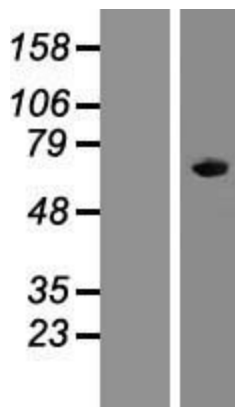
UniProt ID: [Q9NQ94](#)
 Cytogenetics: 10q11.23
 MW: 65.2 kDa

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]

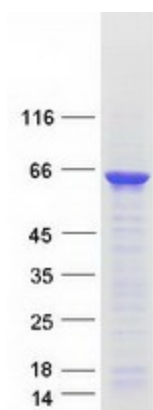
Product images:



Circular map for RC216861



Western blot validation of overexpression lysate (Cat# [LY408476]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC216911] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified A1CF protein (Cat# [TP316861]). The protein was produced from HEK293T cells transfected with A1CF cDNA clone (Cat# RC216861) using MegaTran 2.0 (Cat# [TT210002]).