

Product datasheet for **RG234498**

A1CF (NM_001198818) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	A1CF (NM_001198818) 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:

>RG234498 representing NM_001198818
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATCAAATCACAAATCCGGGGATGGATTGAGCGGCACTCAGAAGGAAGCAGCCCTCCGCGCACTGG
 TCCAGCGCACAGGATATAGCTTGGTCCAGGAAAATGGACAAAGAAAATATGGTGGCCCTCCACCTGGTTG
 GGATGCTGCACCCCTGAAAGGGCTGTGAAATTTTTATTGAAAACTCCCCGAGACCTTTTTGAGGAT
 GAGCTTATACCATTATGTGAAAAATCGGTAAAATTTATGAAATGAGAATGATGATGGATTTAATGGCA
 ACAATAGAGGATATGCATTTGTAACATTTTCAAATAAAGTGAAGCCAAGAATGCAATCAAGCAACTTAA
 TAATTATGAAATTAGAAATGGGCGCTCTTAGGGTTTGTGCCAGTGTGGACAACTGCCGATTATTTGTT
 GGGGGCATCCCAAAAACCAAAAAGAGAGAAGAAATCTTATCGGAGATGAAAAAGTTACTGAAGGTGTTG
 TCGATGTCATCGTCTACCAAGCGCTGCAGATAAAACCAAAAACCGAGGCTTTGCCTTCGTGGAGTATGA
 GAGTCATCGAGCAGCTGCCATGGCGAGGAGGAACTGCTACCAGGAAGAATTCAGTTATGGGGACATGGT
 ATTGCAGTAGACTGGGCAGAGCCAGAAGTAGAAGTTGATGAAGATACAATGTCTTCAGTGAAAAATCCTAT
 ATGTAAGAAATCTTATGCTGTCTACCTCTGAAGAGATGATTGAAAAGGAATCAACAATATCAAACCAGG
 TGCTGTGGAGAGGGTGAAGAAAATTCGAGACTATGCTTTTGTGCACTTCAGTAACCGAGAAGATGCAGTT
 GAGGCTATGAAAGCTTTAAATGGCAAGGTGCTGGATGGTTCCTCCATTGAAGTACCCTAGCAAAACCGAG
 TGGACAAGGACAGTTATGTTAGGTATACCCGAGGCACAGGTGGAAGGGGACCATGCTGCAAGGAGAGTA
 TACCTACTCTTTGGCCAAGTTTATGATCCCACCACAACCTACCTGGAGCTCCTGTCTTCTATGCCCCC
 CAGACCTATGCAGCAATCCAGTCTTCAATTTCCAGCCACCAAAGGACATCTCAGCAACAGAGCCATTA
 TCCGAGCCCTTCTGTTAGAGGGCTCGGGAGTGAAGGACTGGCGGCCGTGGCTATTTGGCATACAC
 AGGCCTGGGTGAGGATACCGAGTCAAAGGAGACAAAAGAGAAGCAAACTCTATGACATTTTACCTGGG
 ATGGAGCTCACCCAATGAATCCTGTACATTAATAACCCAAGGAATTAACCTCGCTCCCCAGATATTAG
 AAGAGATTTGTCAGAAAAATAACTGGGGACAGCCAGTGTACCAGCTGCACTCTGCTATTGGACAAGACCA
 AAGACAGCTATTCTTGTACAAAAATACTATTCTGCTCTAGCCAGCCAGAATCCTGCAATCCACCCTTTC
 ACACCTCAAAGCTGAGTGCCTTTGTGGATGAAGCAAAGACGTATGCAGCCGAATACACCCTGCAGACCC
 TGGGCATCCCACTGATGGAGGCGATGGCACCATGGCTACTGCTGCTGCTGCTACTGCTTTCCAGG
 ATATGCTGTCCCTAATGCAACTGCACCCGTGTCTGCAGCCAGCTCAAGCAAGCGGTAACCTTGGACAA
 GACTTAGCAGCATATAAACCTATGAGGTCTACCAACTTTTGCAGTGACTGCCCGAGGGATGGATATG
 GCACCTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234498 representing NM_001198818
 Red=Cloning site Green=Tags(s)

MESNHKSGDGLSGTQKEAALRALVQRTGYSLVQENGQRKYGGPPPGWDAAPPERGCEIFIGKLPRDLFED
 ELIPLCEKIGKIYEMRMMDFNGNRRGYAFVTFVSNKVEAKNAIKQLNNYEIRNGRLLGVCASVDNCRFLV
 GGIPKTKKREEILSEMKKVTEGVVDVIVYPSADKTKNRGFAFVEYESHRAAAMARRKLLPGRIQLWGHG
 IAVDWAEPVEVEDTMSVKILYVRNMLSTSEEMIEKEFNINIKPFAVERVKKIRDYAFVHFSNREDAV
 EAMKALNGKVLGSPVIEVTLAKPVDKDSYVRYTRGTGGRTMLQGEYTYSLGQVYDPTTYYLQAVFYAP
 QTYAAIPSLHFPATKGHLNRAIIRAPSVRGAAGVRLGGRGYLAYTGLGRGYQVKGDKREDKLYDILPG
 MELTPMNPVTLKPQIKLAPQILEEICQKNNWGPVYQLHSAIGDQRQLFLYKITIPALASQNPAPIHPF
 TPKLSAFVDEAKTYAAEYTLQTLGIPTDGGDMATAAAAAATAFPGYAVPNATAPVSAQLKQAVTLGQ
 DLAAAYTTYEVYPTFAVTARGDGYGTF

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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
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]