

Product datasheet for **MG224176**

A1cf (NM_001081074) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	A1cf (NM_001081074) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	A1cf
Synonyms:	1810073H04Rik; Acf; ACF64; ACF65; ASP; MCM; mer; MerCreMer; Tg(Myh6-cre/Esr1*)1Jmk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224176 representing NM_001081074
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAATCAAATCACAAATCCGGGGATGGATTGAGCGGCACCCAGAAGGAAGCGGCACTCCGCGCACTGG
 TCCAGCGCACAGGATATAGCTTGGTCCAGGAAAATGGACAAAGGAAGTATGGTGGCCCTCCACCAGGCTG
 GGATTCTACACCCCCAGAAAGGGCTGCGAGATTTTCATTGGGAAACTTCCCGGGACCTCTTTGAGGAT
 GAACTCATACCATTGTGTGAAAAAATTGGTAAATTTATGAAATGAGATTGATGATGGATTTTAATGGTA
 ACAACAGAGGCTATGCATTTGTAACATTCTCAAATAAGCAGGAAGCCAAGAATGCAATCAAGCAACTTAA
 TAATTATGAAATTCGGACTGGCCGTCTCTTGGGAGTCTGTGCCAGTGTGGACAATTGCCGATTGTTTGTG
 GGAGGAATCCCCAAAACCAAAAAGAGGGAAGAAATCTTATCAGAGATGAAAAAGTCACAGAAGGAGTTG
 TTGATGTCATTGTCTACCAAGTGTCTGATAAAAACCAAAAACCGGGGATTTGCCTTTGTGGAATATGA
 GAGTCACCGAGCAGCCCGCATGGCTAGGCGGAGGCTGCTGCCAGGAAGAATTCAGTTGTGGGGACATCCT
 ATTGCAGTAGACTGGGCAGAACCAGAAGTTGAAGTTGATGAGGACACAATGTCTTCCGTGAAAAATCCTGT
 ACGTAAGGAACCTTATGCTGTCTACCTCGGAAGAAATGATTGAAAAGGAATTAACAGTATTAACCAGG
 TGCTGTGGAAAGAGTGAAGAAGATCCGAGACTACGCTTTTGTGCACTTCAGTAACCGAGAAGATGCAGTT
 GAAGCCATGAAGGCTTTGAATGGCAAGGTGCTGGATGGTCCCAATAGAAGTGACCTTGGCCAAGCCAG
 TGGACAAGGACAGTTATGTTAGGTACACCCGGGACCCGGTGGCAGGAACACCATGTGCAAGGAGAATA
 CACCTACCCTCTGAGCCATGTTTATGACCCTACCACAACCTACCTTGGAGCTCCTGTCTTCTATACCCCC
 CAAGCCTATGCAGCCATCCAAGTCTTCATTTCCAGCTACTAAGGACATCTCAGCAACAGGGCTCTCA
 TCAGGACCCCTTCTGTGAGAGAAATTTACATGAATGTCCTGTAGGGGCTGCGGGGCTGAGAGGACTGGG
 CGGCCGTGGGTATTTGGCATAACACAGGCCTGGGTGAGGATACACGTCAAAGGAGACAAGAGAGAAGAC
 AAATCTATGATCTTCTGCTGGGATGGAGCTACCCCGATGAATACTGTCTCTTTAAAACCAAGGAA
 TTAACCTGTCTCAGATATTAGAAGAAATCTGTGAGAAAAATAACTGGGGACAGCCAGTGTACCAACT
 GCATTCTGCCATTGGACAAGATCAAAGACAGTTATTCCTCTACAAAGTAATATCCAGCGCTGGCCAGC
 CAGAATCTGCAATCCACCCTTTCATACCACAAAGCTAAGCGCCTATGTGGATGAAGCGAAGAGGTATG
 CTGCAGAGCACACTCTACAGACTAGGCATCCCCACAGAAGGAGGGGACGCTGGGACTACAGCACCCAC
 GGCCACTTCTGCCACTGTGTTCCAGGATATGCTGTCCCAGTGCACCCGCTCCTGTGTCTACAGCCAG
 CTAAGCAAGCAGTGACACTTGGACAAGACTTAGCAGCATATACAACCTATGAGGCTACCCCTACTTTG
 CACTGACCACCCGAGCGATGCATATGGAACCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG224176 representing NM_001081074
 Red=Cloning site Green=Tags(s)

MESNHKSGDGLSGTQKEAALRALVQRTGYSLVQENGQRKYGGPPPGWDSTPPERGCEIFIGKLPRDLFED
 ELIPLCEKIGKIYEMRLMDFNGNRRGYAFVTFSNKQEAQNAIKQLNYYEIRTGRLLGVCASVDNCRFLV
 GGIPKTKKREEILSEMKKVTEGVVDVIVYPSADKTKNRGFAFVEYESHRAAAMARRRLLPGRIQLWGH
 IAVDWAEPVEVEDTMSVKILYVRNMLSTSEEMIEKEFNSIKPFAVERVKKIRDYAFVHFSNREDAV
 EAMKALNGKVLDSPIEVTLAKPVDKDSYVRYTRGTGGRNMLQGEYTYPLSHVYDPTTTYLGAPVFYTP
 QAYAAIPSLHFPATKGHLNRLIRTPSVREIYMNVPVGAAGVRGLGGRGYLAYTGLGRGYHVKGDKRED
 KLYDLLPGMELTPMNTVSLKPQGIKLAPQILEEICQKNNWGPVYQLHSAIGDQRQLFLYKVTIPALAS
 QNPAIHPFIPPKLSAYVDEAKRYAAEHTLQTLGIPTEGGDAGTTAPTATSATVFPYAVPSATAPVSTAQ
 LKQAVTLGQDLAAYTTYEYPTFALTTRGDAYGTF

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_001081074.2</p>
RefSeq Size:	<p>3828 bp</p>
RefSeq ORF:	<p>1788 bp</p>
Locus ID:	<p>69865</p>
UniProt ID:	<p>Q5YD48</p>
Cytogenetics:	<p>19 C1</p>
Gene Summary:	<p>Essential component of the apolipoprotein B mRNA editing enzyme complex which is responsible for the postranscriptional editing of a CAA codon for Gln to a UAA codon for stop in APOB mRNA. Binds to APOB mRNA and is probably responsible for docking the catalytic subunit, APOBEC1, to the mRNA to allow it to deaminate its target cytosine. The complex also seems to protect the edited APOB mRNA from nonsense-mediated decay (By similarity). [UniProtKB/Swiss-Prot Function]</p>