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Product datasheet for MR224176

A1cf (NM_001081074) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	A1cf (NM_001081074) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	A1cf
Synonyms:	1810073H04Rik; Acf; ACF64; ACF65; ASP; MCM; mer; MerCreMer; Tg(Myh6-cre/Esr1*)1Jmk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR224176 representing NM_001081074
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAATCAAATCACAAATCCGGGGATGGATTGAGCGGCACCCAGAAGGAAGCGGCACTCCGCGCACTGG
TCCAGCGCACAGGATATAGCTTGGTCCAGGAAAATGGACAAAGGAAGTATGGTGGCCCTCCACCAGGCTG
GGATTCTACACCCCCAGAAAGGGGCTGCGAGATTTTCATTGGGAAACTTCCCCGGGACCTCTTTGAGGAT
GAACTCATACCATTGTGTGAAAAAATTGGTAAAATTTATGAAATGAGATTGATGATGGATTTTAATGGTA
ACAACAGAGGCTATGCATTTGTAACATTCTCAAATAAGCAGGAAGCCAAGAATGCAATCAAGCAACTTAA
TAATTATGAAATTCGGACTGGCCGTCTCTTGGGAGTCTGTGCCAGTGTGGACAATTGCCGATTGTTTGTG
GGAGGAATCCCCAAAACCAAAAAGAGGGAAGAAATCTTATCAGAGATGAAAAAAGTCACAGAAGGAGTTG
TTGATGTCATTGTCTACCCAAGTGCTGCTGATAAAACCAAAAACCGGGGATTTGCCTTTGTGGAATATGA
GAGTCACCGAGCAGCCGCCATGGCTAGGCGGAGGCTGCTGCCAGGAAGAATTCAGTTGTGGGGACATCCT
ATTGCAGTAGACTGGGCAGAACCAGAAGTTGAAGTTGATGAGGACACAATGTCTTCCGTGAAAATCCTGT
ACGTAAGGAACCTTATGCTGTCTACCTCGGAAGAAATGATTGAAAAGGAATTCAACAGTATTAAACCAGG
TGCTGTGGAAAGAGTGAAGAAGATCCGAGACTACGCTTTTGTGCACTTCAGTAACCGAGAAGATGCAGTT
GAAGCCATGAAGGCTTTGAATGGCAAGGTGCTGGATGGTTCCCCAATAGAAGTGACCTTGGCCAAGCCAG
TGGACAAGGACAGTTATGTTAGGTACACCCGGGGCACCGGTGGCAGGAACACCATGCTGCAAGGAGAATA
CACCTACCCTCTGAGCCATGTTTATGACCCTACCACAACCTACCTTGGAGCTCCTGTCTTCTATACCCCC
CAAGCCTATGCAGCCATTCCAAGTCTTCATTTCCCAGCTACTAAAGGACATCTCAGCAACAGGGCTCTCA
TCAGGACCCCTTCTGTCAGAGAAATTTACATGAATGTCCCTGTAGGGGCTGCGGGGGTGAGAGGACTGGG
CGGCCGTGGGTATTTGGCATACACAGGCCTGGGTCGAGGATACCACGTCAAAGGAGACAAGAGAGAAGAC
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CAGAATCCTGCAATCCACCCTTTCATACCACCAAAGCTAAGCGCCTATGTGGATGAAGCGAAGAGGTATG
CTGCAGAGCACACTCTACAGACACTAGGCATCCCCACAGAAGGAGGGGACGCTGGGACTACAGCACCCAC
GGCCACTTCTGCCACTGTGTTCCCAGGATATGCTGTCCCCAGTGCCACCGCTCCTGTGTCTACAGCCCAG
CTCAAGCAAGCAGTGACACTTGGACAAGACTTAGCAGCATATACAACCTATGAGGTCTACCCTACTTTTG
CACTGACCACCCGAGGCGATGCATATGGAACCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224176 representing NM_001081074
Red=Cloning site Green=Tags(s)

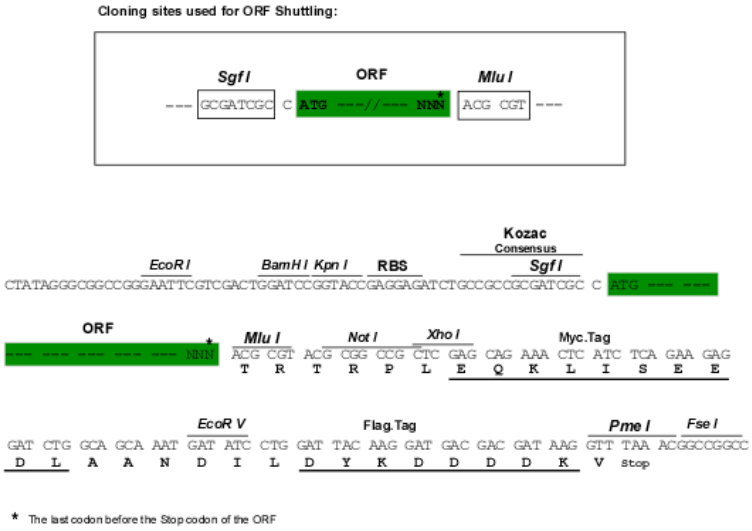
MESNHKSGDGLSGTQKEAALRALVQRTGYSLVQENGQRKYGGPPPGWDSTPPERGCEIFIGKLPRDLFED
ELIPLCEKIGKIYEMRLMMDFNGNNRGYAFVTFSNKQEAKNAIKQLNNYEIRTGRLLGVCASVDNCRLFV
GGIPKTKKREEILSEMKKVTEGVVDVIVYPSAADKTKNRGFAFVEYESHRAAAMARRRLLPGRIQLWGHP
IAVDWAEPEVEVDEDTMSSVKILYVRNLMLSTSEEMIEKEFNSIKPGAVERVKKIRDYAFVHFSNREDAV
EAMKALNGKVLDGSPIEVTLAKPVDKDSYVRYTRGTGGRNTMLQGEYTYPLSHVYDPTTTYLGAPVFYTP
QAYAAIPSLHFPATKGHLSNRALIRTPSVREIYMNVPVGAAGVRGLGGRGYLAYTGLGRGYHVKGDKRED
KLYDLLPGMELTPMNTVSLKPQGIKLAPQILEEICQKNNWGQPVYQLHSAIGQDQRQLFLYKVTIPALAS
QNPAIHPFIPPKLSAYVDEAKRYAAEHTLQTLGIPTEGGDAGTTAPTATSATVFPGYAVPSATAPVSTAQ
LKQAVTLGQDLAAYTTYEVYPTFALTTRGDAYGTF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9078_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001081074

ORF Size: 1785 bp

OTI Disclaimer: 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.

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_001081074.2

RefSeq Size: 3828 bp

RefSeq ORF: 1788 bp

Locus ID: 69865

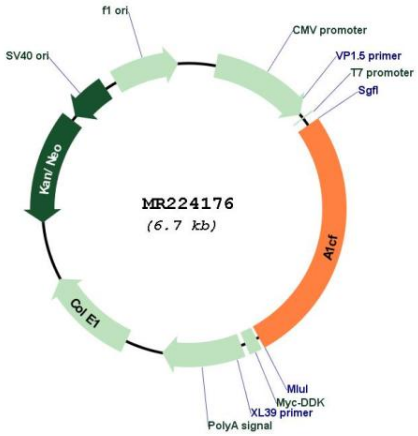
UniProt ID: Q5YD48

Cytogenetics: 19 C1

MW: 65.7 kDa

Gene Summary: 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]

Product images:



Circular map for MR224176