

Product datasheet for **MC219534**

A1cf (NM_001081074) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC219534 representing NM_001081074
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAATCAAATCACAAATCCGGGGATGGATTGAGCGGCACCCAGAAGGAAGCGGCACTCCGCGCACTGG
 TCCAGCGCACAGGATATAGCTTGGTCCAGGAAAATGGACAAAGGAAGTATGGTGGCCCTCCACCAGGCTG
 GGATTCTACACCCCCAGAAAGGGCTGCGAGATTTTCATTGGGAAACTTCCCGGGACCTCTTTGAGGAT
 GAACTCATACCATTGTGTGAAAAAATTGGTAAAATTTATGAAATGAGATTGATGATGGATTTTAATGGTA
 ACAACAGAGGCTATGCATTTGTAACATTCTCAAATAAGCAGGAAGCCAAGAATGCAATCAAGCAACTTAA
 TAATTATGAAATTCGGACTGGCCGTCTCTTGGGAGTCTGTGCCAGTGTGGACAATTGCCGATTGTTTGTG
 GGAGGAATCCCCAAAACCAAAAAGAGGGAAGAAATCTTATCAGAGATGAAAAAGTCACAGAAGGAGTTG
 TTGATGTCATTGTCTACCAAGTGTCTGATAAAAACCAAAAACCGGGGATTTGCCTTTGTGGAATATGA
 GAGTCACCGAGCAGCCGCTATGGCTAGGCGGAGGCTGCTGCCAGGAAGAATTCAGTTGTGGGGACATCCT
 ATTGCAGTAGACTGGGCAGAACCAGAAGTTGAAGTTGATGAGGACACAATGTCTTCCGTGAAAAATCCTGT
 ACGTAAGGAACCTTATGCTGTCTACCTCGGAAGAAATGATTGAAAAGGAATTAACAGTATTAACCAGG
 TGCTGTGGAAAGAGTGAAGAAGATCCGAGACTACGCTTTTGTGCACTTCAGTAACCGAGAAGATGCAGTT
 GAAGCCATGAAGGCTTTGAATGGCAAGGTGCTGGATGGTCCCAATAGAAGTGACCTTGGCCAAGCCAG
 TGGACAAGGACAGTTATGTTAGGTACACCCGGGGCACCAGTGGCAGGAACACCATGCTGCAAGGAGAATA
 CACCTACCCTCTGAGCCATGTTTATGACCCTACCACAACCTACCTTGGAGCTCCTGTCTTCTATACCCCC
 CAAGCCTATGCAGCCATTCCAAGTCTTCATTTCCAGCTACTAAAGGACATCTCAGCAACAGGGCTCTCA
 TCAGGACCCCTTCTGTGAGAAAAATTTACATGAATGTCCTGTAGGGGCTGCGGGGGTGAGAGACTGGG
 CGGCCGTGGGTATTTGGCATACACAGGCCCTGGGTGAGGATACCAGTCAAAGGAGACAAGAGAGAAGAC
 AAATCTATGATCTTCTGCTGAGGCTCACCCCGATGAATACTGTCTCTTTAAAACCAAGGAA
 TTAACCTGCTCCTCAGATATTAGAAGAAATCTGTGAGAAAAATAACTGGGGACAGCCAGTGTACCAACT
 GCATTCTGCCATTGGACAAGATCAAAGACAGTTATTCCTCTACAAAGTAATATCCAGCGCTGGCCAGC
 CAGAATCTGCAATCCACCCTTTCATACCACAAAGCTAAGCGCCTATGTGGATGAAGCGAAGAGGTATG
 CTGCAGAGCACACTCTACAGACTAGGCATCCCCACAGAAGGAGGGGACGCTGGGACTACAGCACCCAC
 GGCCACTTCTGCCACTGTGTTCCAGGATATGCTGTCCCAGTGCACCCGCTCCTGTGTCTACAGCCAG
 CTAAGCAAGCAGTGACACTTGGACAAGACTTAGCAGCATATACAACCTATGAGGTCTACCTACTTTTG
 CACTGACCACCCGAGCGATGCATATGGAACCTCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001081074
- Insert Size:** 1788 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_001081074.1](#), [NP_001074543.1](#)

RefSeq Size: 3828 bp

RefSeq ORF: 1788 bp

Locus ID: 69865

UniProt ID: [Q5YD48](#)

Cytogenetics: 19 C1

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]