

Product datasheet for **RR208787**

A1cf (NM_133400) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	A1cf (NM_133400) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	A1cf
Synonyms:	A1cft; Acf; Apobec-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR208787 representing NM_133400
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATCAAATCACAAATCCGGGGATGGATTGAGCGGCACCCAGAAGGAAGCAGCACTCCGCGCACTGG
 TCCAGCGCACAGGATATAGCTTGGTCCAGGAAAATGGACAAAGAAAATATGGTGGTCTCCACCAGGCTG
 GGATACTACACCCCCAGAAAGGGCTGCGAGATTTTCATTGGGAACTTCCCGGGACCTTTTTGAGGAT
 GAACTCATACCATTGTGTGAAAAAATTGGTAAATTTATGAAATGAGAATGATGATGGATTTCAATGGGA
 ACAACAGAGGCTATGCATTTGTAACTTCTCAAATAAGCAGGAAGCCAAGAATGCAATCAAGCAACTTAA
 TAATTATGAAATTCGGAATGGCCGTCTCCTGGCGTCTGTGCCAGTGTGGACAACGCCGGTTGTTGTG
 GGGGGAATCCCCAAAACCAAAAAGAGAGAAGAAATCTTGTGAGAGATGAAAAGGTCAGTGAAGGAGTTG
 TTGATGTCATTGTCTACCAAGCGCTGCCGATAAAAACCAAAACCGGGGTTTGCCTTTGTGGAATATGA
 GAGTCACCGCGCAGCCGATGGCTAGGCGGAGGCTGCTGCCAGGAAGAATTCAGTTGTGGGGACATCCT
 ATCGCAGTAGACTGGGCAGAGCCAGAAGTCGAAGTTGACGAAGACACAATGTCTTCCGTGAAAATCCTGT
 ACGTAAGGAACCTTATGCTGTCTACCTCGGAAGAGATGATTGAGAAGGAATTAACAGTATTAACCAGG
 TGCTGTGGAACGGGTGAAGAAGATCCGAGACTATGCTTTTGTGCATTTTCAGTAACCGAGAAGATGCAGTT
 GAAGCCATGAAGGCTTTGAATGGCAAGGTGCTGGATGGTTCACCAATAGAAGTGACCTTGGCCAAGCCAG
 TGGACAAGGACAGTTACGTTAGGTACACCCGGGGCACCAGGGGCAAGAACACCATGCTGCAAGAATACAC
 CTACCTCTGAGCCATGTTTATGACCTACCACAACCTACCTGGAGCTCCTGTCTTCTATACTCCCCAA
 GCCTACGCAGCCATTCCAAGTCTTCAATTTCCAGCTACCAAGGACATCTCAGCAACAGAGCTCTCATCC
 GACCCCTTCTGTGAGAGGGGCTGCGGGGCTGAGAGGACTGGGCGGCGTGGGTATTTGGCATATACAGG
 CCTGGGTCGAGGATACCGGTCAAAGGAGACAAGAGACAAGACAACCTCTATGACCTTCTGCCTGGGATG
 GAGCTCACCCGATGAATACTATCTCTTTAAAACCAAGGATTAACCTTGTCTCCTCAGATATTAGAAG
 AAATCTGTGAGAAAAATAACTGGGGACAGCCAGTGTACCAGTGCAGTCTGCCATTGGACAAGACCAAAAG
 ACAGTTATTCTATACAAAGTAACTATCCAGCGCTGGCCAGCCAGAATCCTGCGATCCACCCTTTCACA
 CCCCCAAGCTAAGCGCCTACGTGGATGAAGCAAAAGAGTACGCCGAGAGCACACCTACAGACACTAG
 GCATCCCCACAGAAGGAGGGGACGCTGGGACTACAGCACCCACTGCCACATCCGCCACTGTGTTCCAGG
 ATACGCTGTCCCAGTGCACCGCTCCTGTGTCTACAGCCAGCTCAAGCAAGCAGTGCAGTGGACAA
 GACTTAGCAGCATATAAACCTATGAGGTCTACCTACTTTTGCAGTGACCACCCGAGGTGATGGATATG
 GCACCTTC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208787 representing NM_133400
 Red=Cloning site Green=Tags(s)

MESNHKSGDGLSGTQKEAALRALVQRTGYSLVQENGQRKYGGPPPGWDTPPERGCEIFIGKLPRLDFED
 ELIPLCEKIGKIYEMRMMDFNGNRRGYAFVTF SNKQEAKNAIKQLNNYEIRNGRLLGVCASVDNCRFLV
 GGIPKTKKREEILSEMKKVTEGVVDVIVYPSAADKTKNRGFAFVEYESHRAAAMARRRLLPGRIQLWGHP
 IAVDWAEPVEVDEDTMSSVKILYVRNMLSTSEEMIEKEFNISIKPGAVERVKKIRDYAFVHFSNREDAV
 EAMKALNGKVLGDGSPIEVTLAKPVDKDSYVRYTRGTGGRNTMLQEYTYPLSHVYDPTTTYLGAPVFYTPQ
 AYAAIPSLHFPATKGHL SNRALIRTPSVRGAAGVRGLGGRGYLAYTGLGRGYQVKGDKRQDKLYDLLPGM
 ELTPMNTISLKPQGVKLAPOILEEICQKNWGPVYQLHSAIGDQDQQLFLYKVTIPALASQNPAPIHPFT
 PPKLSAYVDEAKRYAAEHTLQTLGIPTEGGDAGTTAPTATSATVFPGYAVPSATAPVSTAQLKQAVTLGQ
 DLAAAYTTYEVYPTFAVTTTRGDGYGTF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

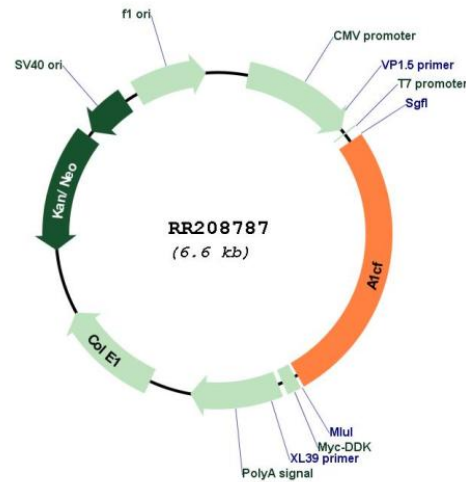
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_133400

ORF Size: 1758 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:	<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_133400.1 , NP_596891.1
RefSeq Size:	1863 bp
RefSeq ORF:	1761 bp
Locus ID:	170912
UniProt ID:	Q923K9
Cytogenetics:	1q52
MW:	64.7 kDa
Gene Summary:	complementation factor that binds to RNA in a heterochromatin-associated protein complex that edits cytidine to uridine [RGD, Feb 2006]