

Product datasheet for **RC215744**

APOBEC1 (NM_001644) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: APOBEC1 (NM_001644) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: APOBEC1
Synonyms: APOBEC-1; BEDP; CDAR1; HEPR
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC215744 representing NM_001644
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTTCTGAGAAAGTCTTCAACCGGTGACCCCACTCTGAGGAGAAGAATCGAACCCCTGGGAGTTTG
 ACGTCTTCTATGACCCAGAGAAGTTCGTAAGAGGCCTGTCTGCTCTACGAAATCAAGTGGGCATGAG
 CCGGAAGATCTGGCGAAGCTCAGGCAAAAACACCACCAATCACGTGGAAGTTAATTTTAAAAAATTT
 ACGTCAGAAAGAGATTTTCACCCATCCATCAGCTGCTCCATCACCTGGTCTTGTCTGGAGTCCCTGCT
 GGAATGCTCCCAGGCTATTAGAGAGTTTCTGAGTCGGCACCCCTGGTGTGACTCTAGTGATCTACGTAGC
 TCGGCTTTTTTGGCACATGGATCAACAAAATCGGCAAGGTCTCAGGGACCTTGTTAACAGTGGAGTAACT
 ATTCAGATTATGAGAGCATCAGAGTATTATCACTGCTGGAGGAATTTTGTCAACTACCCACCTGGGGATG
 AAGCTCACTGGCCACAATACCCACCTCTGTGGATGATGTTGTACGCACTGGAGCTGCACTGCATAATTCT
 AAGTCTTCCACCCTGTTTAAAGATTTCAAGAAGATGGCAAAATCATCTTACATTTTTCAGACTTCATCTT
 CAAAAGTCCATTACCAAACGATTCCGCCACACATCCTTTTAGCTACAGGGCTGATACATCTTCTGTGG
 CTTGGAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC215744 representing NM_001644
Red=Cloning site Green=Tags(s)

MTSEKGPSTGDPTLRRRIEPWEFDVFDYDPRELRKEACLLYEIKWMSRKIWRSSGKNTTNHVEVNFIKKF
 TSERDFHPSISCSITWFLSWSPCWECSQAIREFLSRHPGVTLVIYVARLFWHMDQQNRQGLRDLVNSGVT
 IQIMRASEYYHCWRNFVNYPPGDEAHWPQYPLWMMLYALELHCIIILSLPPCLKISRWWQNHLTFRRLHL
 QNCHYQTIPPHILLATGLIHPSVAWR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6116_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001644

ORF Size: 708 bp

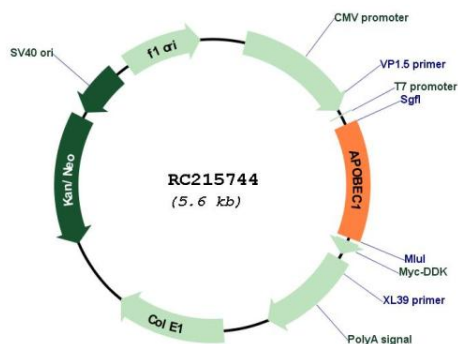
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

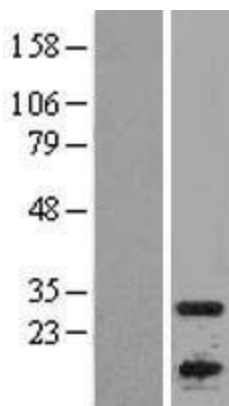
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001644.2
RefSeq Size:	911 bp
RefSeq ORF:	711 bp
Locus ID:	339
UniProt ID:	P41238
Cytogenetics:	12p13.31
MW:	28 kDa
Gene Summary:	This gene encodes a member of the cytidine deaminase enzyme family. The encoded protein forms a multiple-protein editing holoenzyme with APOBEC1 complementation factor (ACF) and APOBEC1 stimulating protein (ASP). This holoenzyme is involved in the editing of C-to-U nucleotide bases in apolipoprotein B and neurofibromatosis-1 mRNAs. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2015]

Product images:



Circular map for RC215744



Western blot validation of overexpression lysate (Cat# [LY400620]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215744 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).