

Product datasheet for **RG215744**

APOBEC1 (NM_001644) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APOBEC1 (NM_001644) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	APOBEC1
Synonyms:	APOBEC-1; BEDP; CDAR1; HEPR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215744 representing NM_001644 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTTCTGAGAAAGGTCCTTCAACCGGTGACCCCACTCTGAGGAGAAGAATCGAACCCCTGGGAGTTTG
ACGTCTTCTATGACCCCAGAGAACTTCGTAAAGAGGCCTGTCTGCTCTACGAAATCAAGTGGGCATGAG
CCGGAAGATCTGGCGAAGCTCAGGCAAAAACACCACCAATCACGTGGAAGTTAATTTTAAAAAATTT
ACGTCAGAAAGAGATTTTCACCCATCCATCAGCTGCTCCATCACCTGGTCTTGTCTGGAGTCCCTGCT
GGGAATGCTCCCAGGCTATTAGAGAGTTTCTGAGTCGGCACCCCTGGTGTGACTCTAGTGATCTACGTAGC
TCGGCTTTTTTGGCACATGGATCAACAAAATCGGCAAGGTCTCAGGGACCTTGTTAACAGTGGAGTAACT
ATTCAGATTATGAGAGCATCAGAGTATTATCACTGCTGGAGGAATTTTGTCAACTACCCACCTGGGGATG
AAGCTCACTGGCCACAATACCCACCTCTGTGGATGATGTTGTACGCACTGGAGCTGCACTGCATAATTCT
AAGTCTTCCACCTGTTTAAAGATTTCAAGAAGATGGCAAAATCATCTTACATTTTTCAGACTTCATCTT
CAAACTGCCATTACCAAACGATTCCGCCACACATCCTTTTAGCTACAGGGCTGATACATCCTTCTGTGG
CTTGGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215744 representing NM_001644
 Red=Cloning site Green=Tags(s)

MTSEKGPSTGDPTLRRRIEPWEFDVFDYDPRELRKEACLLYEIKWMSRKIWRSSGKNTTNHVEVNFIKKF
 TSERDFHPSISCSITWFLSWSPCWECSQAIREFLSRHPGVTLVIYVARLFWHMDQQNRQGLRDLVNSGVT
 IQIMRASEYYHCWRNFVNYPGDEAHWPQYPPLWMMLYALELHCIIILSLPPCLKISRWRQNHLTFFRLHL
 QNCHYQTIPPHILLATGLIHPSVAWR

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001644

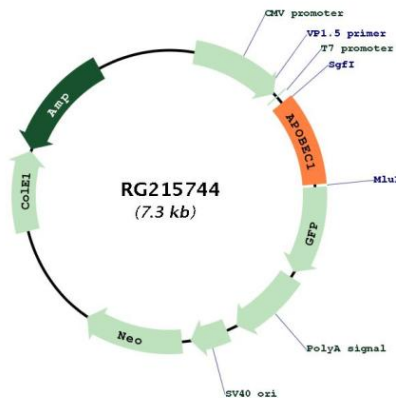
ORF Size: 708 bp

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.
RefSeq:	<u>NM_001644.2</u>
RefSeq Size:	911 bp
RefSeq ORF:	711 bp
Locus ID:	339
UniProt ID:	<u>P41238</u>
Cytogenetics:	12p13.31
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 RG215744