

Product datasheet for **SC303051**

APOBEC1 (NM_001644) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APOBEC1 (NM_001644) Human Untagged Clone
Tag:	Tag Free
Symbol:	APOBEC1
Synonyms:	APOBEC-1; BEDP; CDAR1; HEPR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_001644 edited AGAGCACCATGACTTCTGAGAAAGTCCCTCAACCGGTGACCCCACTCTGAGGAGAAGAA TCGAACCCTGGGAGTTTGACGTCTTCTATGACCCAGAGAAGCTCGTAAAGAGGCCTGTC TGCTCTACGAAATCAAGTGGGGCATGAGCCGGAAGATCTGGCGAAGCTCAGGCAAAAAACA CCACCAATCACGTGGAAGTTAATTTTATAAAAAATTTACGTCAGAAAGAGATTTTCACC CATCCATCAGCTGCTCCATCACCTGGTTCTTGTCTGGAGTCCCTGCTGGGAATGCTCCC AGGCTATTAGAGAGTTTCTGAGTCGGCACCCCTGGTGTGACTCTAGTGATCTACGTAGCTC GGCTTTTTTGGCACATGGATCAACAAAATCGGCAAGGTCTCAGGGACCTTGTTAACAGTG GAGTAACTATTCAGATTATGAGAGCATCAGAGTATTACTGCTGGAGGAATTTGTCA ACTACCCACCTGGGGATGAAGCTCACTGGCCACAATACCCACCTCTGTGGATGATGTTGT ACGCAGTGGAGTGCCTGCATAATTCTAAGTCTTCCACCCTGTTAAAGATTTCAAGAA GATGGCAAAATCATCTTACATTTTTCAGACTTCATCTTCAAAACTGCCATTACCAAACGA TTCCGCCACACATCCTTTTAGCTACAGGGCTGATACATCCTTCTGTGGCTTGGAGATGAA TAGGATGATTCCTGTGTGTACTGATTCAAGAACAAGCAATGATGACCCAC



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001644 unedited GTTCAGTTCAGATTTGTATACGACTCACTATAGGCGGCCGCGACTTCGCCCTTAGAGCAC CATGACTTCTGAGAAAGTCTTCAACCGGTGACCCCACTCTGAGGAGAAGAATCGAACCC TGGGAGTTTGACGTCTTCTATGACCCAGAGAACTTCGTAAAGAGGCCTGTCTGTCTAC GAAATCAAGTGGGGCATGAGCCGGAAGATCTGGCGAAGCTCAGGCAAAAACACCACCAAT CACGTGGAAGTTAATTTTATAAAAAAATTTACGTCAGAAAAGAGATTTTCACCCATCCATC AGCTGCTCCATCACCTGGTTCTTGTCTGGAGTCCCTGCTGGAATGCTCCAGGCTATT AGAGAGTTTCTGAGTCGGCACCCCTGGTGTGACTCTAGTGATCTACGTAGCTCGGCTTTTT TGGCACATGGATCAACAAAATCGGCAAGGTCTCAGGGACCTTGTTAACAGTGGAGTAACT ATTCAGATTATGAGAGCATCAGAGTATTACTACTGCTGGAGGAATTTGTCAACTACCCA CCTGGGGATGAAGCTCACTGGCCACAATACCCACCTCTGTGGATGATGTTGTACGCACTG GAGCTGCACTGCATAATTCTAAGTCTTCCACCCTGTTAAAGATTTCAAGAAGATGGCAA AATCATCTTACATTTTTCAGACTTCATCTCAAACACTGCCATTACCAAACGATTCGGCCA CACATCCTTTTAGCTACAGGGCTGATACATCCTTCTGTGGCTTGGAGATGAATAGGATGA TTCCGTGTGTACTGGATTGAGAACAAAGCATGATGACCCACAGGGCGAATCAGATCTGT ACCGATATCAGCTTGTGACTCTAGATTGCGCCGCTCATAGCTGNTTCCTGAACGATCC CGGTGN</p>
Restriction Sites:	Please inquire
ACCN:	NM_001644
Insert Size:	800 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	There is 1 nucleotide difference between the OriGene clone and the NCBI reference ORF. These result in the substitution of 1 aa.
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_001644.3](#), [NP_001635.2](#)

RefSeq Size: 911 bp

RefSeq ORF: 711 bp

Locus ID: 339

UniProt ID: [P41238](#)

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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Variants 1 and 2 both encode the same isoform (a).