

Product datasheet for **SC303543**

APOBEC3B (NM_004900) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APOBEC3B (NM_004900) Human Untagged Clone
Tag:	Tag Free
Symbol:	APOBEC3B
Synonyms:	A3B; APOBEC1L; ARCD3; ARP4; bK150C2.2; DJ742C19.2; PHRBNL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_004900 edited
 CAAAAAAGAGCGGGACAGGGACAAGCGTATCTAAGAGGCTGAACATGAATCCACAGATC
 AGAAATCCGATGGAGCGGATGTATCGAGACACATTCTACGACAACCTTTGAAAACGAACCC
 ATCCTCTATGGTCGGAGCTACACTTGGCTGTGCTATGAAGTAAAATAAGAGGGGCCGC
 TCAAAATCCTTTGGGACACAGGGTCTTTCGAGGCCAGGTGATTTCAAGCCTCAGTAC
 CACGCAGAAATGTGCTTCTCTTGGTCTGTGGCAACCAGCTGCCTGCTTACAAGTGT
 TTCCAGATCACCTGGTTTGTATCCTGGACCCCTGCCCGGACTGTGTGGCGAAGCTGGCC
 GAATTCCTGTCTGAGCACCCCAATGTACCCTGACCATCTCTGCCGCCGCTCTACTAC
 TACTGGGAAAGAGATTACCGAAGGGCGCTCTGCAGGCTGAGTCAGGCAGGAGCCCGCTG
 ACGATCATGGACTATGAAGAATTTGCATACTGCTGGGAAAACCTTTGTGTACAATGAAGGT
 CAGCAATTCATGCCTTGGTACAAATTCGATGAAAATTATGCATTCTGCACCGCACGCTA
 AAGGAGATTCTCAGATACCTGATGGATCCAGACACATTCACTTTCACTTTAATAATGAC
 CCTTTGGTCTTCGACGGCGCCAGACCTACTTGTGCTATGAGGTGGAGCGCTGGACAAT
 GGCACCTGGGTCCTGATGGACCAGCACATGGGCTTTCTATGCAACGAGGCTAAGAATCTT
 CTCTGTGGCTTTACGGCCGCCATGCGGAGCTGCGCTTCTTGGACCTGGTTCCTTCTTTG
 CAGTTGGACCCGCCAGATCTACAGGGTCACTTGGTTTCTCTCTGGAGCCCTGCTTC
 TCTGGGGCTGTGCCGGGAAGTGCGTGCCTTCTCAGGAGAACACACAGTGAAGACTG
 CGCATCTTCGCTGCCGCATCTATGATTACGACCCCTATATAAGGAGGCGCTGCAAATG
 CTGCGGGATGCTGGGGCCCAAGTCTCCATCATGACCTACGATGAGTTTGAGTACTGCTGG
 GACACCTTTGTGTACCGCCAGGGATGTCCCTTCCAGCCCTGGGATGGACTAGAGGAGCAC
 AGCCAAGCCCTGAGTGGGAGGCTGCGGGCCATTCTCCAGGTGAGGGCTTCTCCCTCTGC
 CTGGTGGCCCATCGGCCCTCCCTCTCCCGCTCCCTGTGCCTTGCCTTCCCTCTGC
 TCAGAGCTCCTCTGGGTTCCCTGCTCCCAACAGGGCGCCAGCTCCGTCCCTCCCTTTTC
 CTCTCACAGCCTCCTTCTTTCCACCTCCCGCATCCCTCCCTCTCTCCCGTCAATG
 TCACTGTCCCCAGGCCACCTCCCTGTGCCCTTTTCCACTCTCTCACCTCCTGCTCCATT
 CAACCCCTGCTCTTCCAGAATCAGGGAACTGAAGGATGGGCCTCAGTCTCTAAGGAA
 GGCAGAGACCTGGGTTGAGCAGCAGAATAAAGATCTTCTTCCAAGAAATGCAAACAGAC
 CGTTACCACCATCTCCAGCTGCTCACAGACACCAGCAAAGCAATGTGCTCCTGATCAAG
 TAGATTTTTTAAAAATCAGAGTCAATTAATTTTAATTGAAAATTTCTCTTATGTTCCAAG
 TGTACAAGAGTAAGATTATGCTCAATATCCCAGAATAGTTTTCAATGTATTAATGAAGT
 GATTAATTGGCTCCATATTTAGACTAATAAAACATTAAGAATCTTCCATAA

Restriction Sites: Please inquire

ACCN: NM_004900

Insert Size: 1400 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:	The ORF of this clone has been fully sequenced and found to be 108 amino acids longer than NM_004900.3 at the 3'.
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_004900.3</u> , <u>NP_004891.3</u>
RefSeq Size:	1536 bp
RefSeq ORF:	1149 bp
Locus ID:	9582
UniProt ID:	<u>Q9UH17</u>
Cytogenetics:	22q13.1
Gene Summary:	<p>This gene is a member of the cytidine deaminase gene family. It is one of seven related genes or pseudogenes found in a cluster, thought to result from gene duplication, on chromosome 22. Members of the cluster encode proteins that are structurally and functionally related to the C to U RNA-editing cytidine deaminase APOBEC1. It is thought that the proteins may be RNA editing enzymes and have roles in growth or cell cycle control. A hybrid gene results from the deletion of approximately 29.5 kb of sequence between this gene, APOBEC3B, and the adjacent gene APOBEC3A. The breakpoints of the deletion are within the two genes, so the deletion allele is predicted to have the promoter and coding region of APOBEC3A, but the 3' UTR of APOBEC3B. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2012]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).</p>