

Product datasheet for **SC125847**

APOBEC3B (BC053859) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APOBEC3B (BC053859) Human Untagged Clone
Tag:	Tag Free
Symbol:	APOBEC3B
Synonyms:	APOBEC1L; apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3B; ARCD3; ARP4; bK150C2.2; cytidine deaminase; DJ742C19.2; FLJ21201; OTTHUMP00000028684; phorbolin-1-related; phorbolin 2; phorbolin 3; 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 BC053859 edited
 GACTAGTTCTAGATCGCGATCTAGAAGTCTAGCTTCAAAAAAGAGCGGGACAGGGACA
 AGCGTATCTAAGAGGCTGAACATGAATCCACAGATCAGAAATCCGATGGAGCGGATGTAT
 CGAGACACATTCTACGACAACCTTAAAAACGAACCCATCCTCTATGGTCGGAGCTACACT
 TGGCTGTGCTATGAAGTAAAAATAAGAGGGGCGGCTCAAATCTCCTTTGGGACACAGGG
 GTCTTTTCGAGGCCAGGTGATTTTCGAGCCTCAGTACCACGCAGAAATGTGCTTCTCTCT
 TGGTTCGTGGCAACCAGCTGCCTGCTTACAAGTGTTCACAGATCACCTGGTTTGTATCC
 TGGACCCCTGCCGGACTGTGTGGCGAAGCTGGCCGAATTCCTGTCTGAGCACCCCAAT
 GTCACCCTGACCATCTCCGCCGCCGCCTCTACTACTACTGGGAAAGAGATTACCGAAGG
 GCGCTCTGCAGGCTGAGTCAGGCAGGAGCCCGCTGAAGATCATGGACTATGAAGAATTT
 GCATACTGCTGGGAAAACCTTGTGTACAATGAAGGTCAGCAATTCATGCCTTGGTACAAA
 TTCGATGAAAATTATGCATTCTGCACCGCAGCTAAAGGAGATTCTCAGGCTAAGAATC
 TTCTCTGTGGCTTTACGGCCGCATGCGGAGCTGCGCTTCTTGGACCTGGTTCTTCTT
 TGCAGTTGGACCCGGCCAGATCTACAGGGTCACTTGGTTCATCTCTGGAGCCCTGCT
 TCTCTGGGGCTGTGCCGGGAAGTGCCTGCGTTCCTTCAGGAGAACACACAGTGAAGC
 TCGCATCTTCGCTGCCGCATCTATGATTATGACCCCTATATAAGGAGCGCTGCAAA
 TGCTGCGGGATGCTGGGGCCAAGTCTCCATCATGACCTACGATGAGTTTGGTACTGCT
 GGGACACCTTTGTGTACCGCCAGGGATGTCCCTTCCAGCCCTGGGATGGACTAGAGGAGC
 ACAGCCAAGCCCTGAGTGGGAGGCTGCGGGCATTCTCCAGAATCAGGAAAACCTGAAGGA
 TGGGCCTCAGTCTCTAAGGAAGGCAGAGACCTGGGTTGAGCAGCAGAATAAAAGATCTTC
 TTCCAAGAAATGCAAACAGACCGTTCCACCACCTCTCCAGCTGCTCACAGACACCAGCAA
 AGCAATGTCTCTGATCAAGTAGATTTTTTAAAAATCAGAGTCAATTAATTTAATTGA
 AAATTTCTTTATGTTCCAAGTGTACAAGAGTAAGATTATGCTCAATATCCCAGAAATG
 TTTTCAATGTATTAATGAAGTGATTAATTGGCTCCATATTTAGACTAATAAAACATTAAG
 AATCTTCCATAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC053859 unedited
 GCGTCAAAATTGTATACGACTCATATAGGCGGCCGNAATCAGATCTGGTACCGGTCCG
 GAATTCGGGATATCGTCGACCCACGCGTCCGGACTAGTCTAGATCGCGATCTAGAAC
 TAGTAGTTCAAAAAAGAGCGGGACAGGACAAGCGTATCTAAGAGGCTGAACATGAAT
 CCACAGATCAGAAATCCGATGGAGCGGATGTATCGAGACACATTCTACGACAACCTTTGAA
 AACGAACCCATCCTCTATGGTCGGAGCTACACTTGGCTGTGCTATGAAGTAAAAATAAG
 AGGGGCCGCTCAAATCTCCTTTGGGACACAGGGTCTTTTCGAGGCCAGGTGATTTTCGAG
 CCTCAGTACCACGCAGAAATGTGCTTCTCTCTTGGTTCTGTGGCAACCAGCTGCCTGCT
 TACAAGTGTTCAGATCACCTGGTTTGTATCCTGGACCCCTGCCGGACTGTGTGGCG
 AAGCTGGCCGAATTCCTGTCTGAGCACCCCAATGTCACCCTGACCATCTCCGCCGCCGC
 CTCTACTACTACTGGGAAAGAAGATTACCGAAGGCGCTCTGCAGGCTGAGTCAGGCAGGA
 GCCCGCTGAAGATCATGGACTATGAAGAATTTGCATACTGCTGGGAAAACCTTTGTGTAC
 AATGANAGGTGAGCATTATGCCTTGGTACANATTCGATGAANAATATGCATNTCTGCAC
 CGCACGCTAAAAGAGATTCTCANGCTAAGAATCTTCTCTGTGGCTTTTACGGCCGCCATG
 CGGAGCTGCGCTTCTGGACTGGTTACTTCTTGCAGTTGGACCGGGCCAGATCTACAGG
 GTCACTGGNTTCTCTCTGGAGCCCTGCTTCTACTGGGGCTGTGCGA

Restriction Sites: NotI-NotI
ACCN: BC053859

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](#)

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:

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: [BC053859.1](#), [AAH53859.1](#)

RefSeq Size: 1408 bp

Locus ID: 9582

Cytogenetics: 22q13.1

Gene Summary: 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]