

Product datasheet for RC233422

APOBEC3A_B (NM_001193289) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: APOBEC3A_B (NM_001193289) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: APOBEC3A_B
Synonyms: A3A; APOBEC3A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC233422 representing NM_001193289
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAAGCCAGCCAGCATCCGGGCCAGACACTTGATGGATCCACACATATTCACCTTCCAACCTTAAACA
 ATGGCATTGGAAGGCATAAGACCTACCTGTGCTACGAAGTGAGCGCCTGGACAATGGCACCTCGGTCAA
 GATGGACCAGCACAGGGGCTTTCTACACAACCAGGCTAAGAATCTTCTGTGGCTTTTACGGCCGCAT
 GCGGAGCTGCGCTTCTTGACCTGGTTCCTTCTTGCAGTTGGACCCGGCCAGATCTACAGGGTCACTT
 GGTTTCATCTCCTGGAGCCCTGCTTCTCCTGGGCTGTGCCGGGAAGTGCCTGCGTTCCCTCAGGAGAA
 CACACAGTGAGACTGCGTATCTTCGCTGCCCGCATCTATGATTACGACCCCTATATAAGGAGGCACTG
 CAAATGCTGCGGGATGCTGGGGCCAAAGTCTCCATCATGACCTACGATGAATTTAAGCACTGCTGGGACA
 CCTTTGTGGACCACCAGGGATGTCCCTTCCAGCCCTGGGATGGACTAGATGAGCACAGCCAAGCCCTGAG
 TGGGAGGCTGCGGGCCATTCTCCAGAATCAGGGAAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233422 representing NM_001193289
 Red=Cloning site Green=Tags(s)

MEASPASGPRHLMDFHIFTSNFNNGIGRHKTYLCYEVERLDNGTSVKMDQHRGFLHNQAKNLLCGFYGRH
 AELRFLDLVPSLQLDPAQIYRVTFISWSPCFSWGCAEVRAFLQENTHVRLRIFAARIYDYDPLYKEAL
 QMLRDAGAQVSIPTYDEFKHCWDTFVDHQGCPFPWDGLDEHSQALSGRLRAILQNQGN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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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: [NM_001193289.1](#), [NP_001180218.1](#)

RefSeq Size: 1103 bp

RefSeq ORF: 600 bp

Locus ID: 100913187

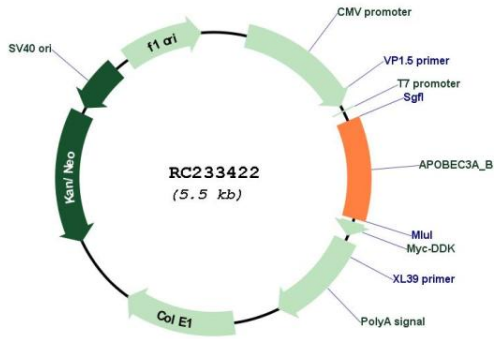
UniProt ID: [P31941](#)

Cytogenetics: 22q13 alternate reference locus

MW: 23.5 kDa

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. The protein encoded by this gene lacks the zinc binding activity of other family members. The protein plays a role in immunity, by restricting transmission of foreign DNA such as viruses. One mechanism of foreign DNA restriction is deamination of foreign double-stranded DNA cytidines to uridines, which leads to DNA degradation. However, other mechanisms are also thought to be involved, as anti-viral effect is not dependent on deaminase activity. The protein encoded by this gene is the same as that encoded by APOBEC3A; however, this gene is a hybrid gene that results from the deletion of approximately 29.5 kb of sequence between the APOBEC3A gene and the adjacent gene APOBEC3B. The breakpoints of the deletion are within the two genes, so the deletion hybrid is predicted to have the promoter and coding region of APOBEC3A, but the 3' UTR of APOBEC3B. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RC233422