

Datasheet for ABIN3376491

Human APOBEC3A_B cDNA Clone in Mammalian Expression Vector

Overview

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|--------------|-----------------------------|
| Quantity: | 10 µg |
| Gene: | APOBEC3A/B (APOBEC3A_B) |
| Species: | Human |
| Insert: | cDNA |
| Vector: | Mammalian Expression Vector |
| Application: | Protein Expression (PEXP) |

Product Details

| | |
|-----------------------|--|
| Purpose: | Untagged full-length cDNA clone from Human APOBEC3A_B is ideal for over-expression of native protein for functional studies. |
| Brand: | TrueClones® |
| Vector Backbone: | pCMV6-Neo |
| Promoter: | Enhanced CMV Promoter, T7 Promoter |
| Selectable Marker: | Neomycin |
| Bacterial Resistance: | Ampicillin |
| Expression Type: | Transient, Stable |
| Specificity: | Restriction Site: SgfI-MluI |
| Characteristics: | <ul style="list-style-type: none"> • These cDNA clones are isolated from full-length cDNA libraries and usually contain the coding sequence as well as the untranslated regions (UTRs) of the mRNA transcript appropriate to the library from which they were isolated. • These cDNA clones are ideal for over-expression of native proteins for functional studies. Provided as 10 µg transfection-ready plasmids. • Every lot of primer is tested to provide clean sequencing of cDNA clones. |
| Purification: | The DNAs were purified using PowerPrep HP Plasmid isolation kits for transfection ready |

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Product Details

plasmids.

Sequencing Primer: VP1.5 (forward) 5'GGACTTTCCAAAATGTCTG 3', XL39 (reverse) 5'ATTAGGACAAGGCTGGTGGG 3'

Components:

- The cDNA clone is shipped in a 2-D bar-coded Matrix tube as dried plasmid DNA.
- The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

Target Details

Gene: APOBEC3A/B (APOBEC3A_B)

Alternative Name: APOBEC3A_B ([APOBEC3A_B Products](#))

Background: 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]. Transcript Variant: This variant (2) represents a deletion allele, its 5' UTR and coding region are derived from APOBEC3A, while its 3'UTR is derived from APOBEC3B. Variants 1 and 2 encode the same protein.

NCBI Accession: [NM_001193289](#), [NP_001180218](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

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Handling

Storage: RT,-20 °C

Storage Comment: The lyophilized plasmid is stable for up to one year when stored at ambient temperature. Following dissolution in 100 µL dH₂O, store at -20 °C. Lyophilized primers are stable for up to one year when stored at ambient temperature. Following dissolution in 10 µL dH₂O, store at -20 °C.

Expiry Date: 12 months

Publications

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)