

Product datasheet for **RG222712**

APOBEC3B (NM_004900) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | APOBEC3B (NM_004900) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | APOBEC3B |
| Synonyms: | A3B; APOBEC1L; ARCD3; ARP4; bK150C2.2; DJ742C19.2; PHRBNL |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG222712 representing NM_004900 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATCCACAGATCAGAAATCCGATGGAGCGGATGTATCGAGACACATTCTACGACAACCTTTGAAAACG
AACCCATCCTCTATGGTCGGAGCTACACTTGGCTGTGCTATGAAGTAAAATAAGAGGGGCCGCTCAA
TCTCCTTTGGACACAGGGTCTTTGAGGCCAGGTGATTTCAAGCCTCAGTACCACGCAGAAATGTGC
TTCTCTCTTGGTCTGTGGCAACCAGCTGCCTGCTTACAAGTGTTCAGATCACCTGGTTGTATCCT
GGACCCCTGCCCGACTGTGTGGCAAGCTGGCCGAATTCCTGTCTGAGCACCCCAATGTCACCCTGAC
CATCTCTGCCGCCGCTCTACTACTGTTGAAAGAGATTACCGAAGGGCGCTCTGCAGGCTGAGTCAG
GCAGGAGCCCGCTGACGATCATGGACTATGAAGAATTTGCATACTGCTGGGAAAACCTTTGTGTACAATG
AAGGTCAGCAATTCATGCCTTGGTACAAATTCGATGAAAATTAATGATTCTGCACCCGACGCTAAAGGA
GATTCTCAGATACCTGATGGATCCAGACACATTCACTTTCAACTTTAATAATGACCCTTTGGTCTTCGA
CGGCGCCAGACCTACTTGTGCTATGAGGTGGAGCGCTGGACAATGGCACCTGGTCTGATGGACCAGC
ACATGGGCTTTCTATGCAACGAGGCTAAGAATCTTCTCTGTGGCTTTTACGGCCCATCGGGAGCTGCG
CTTCTTGGACCTGGTTCCTTCTTTGAGTTGGACCCGGCCAGATCTACAGGGTCACTTGGTTCATCTCC
TGGAGCCCTGCTTCTCCTGGGCTGTGCCGGGAAGTGCCTGCGTTCTTCAGGAGAACACACACGTGA
GACTGCGCATCTTCGCTGCCGCATCTATGATTACGACCCCTATATAAGGAGGGCTGCAATGCTGCG
GGATGCTGGGGCCCAAGTCTCCATCATGACCTACGATGAGTTTGTAGTACTGCTGGACACCTTTGTGTAC
CGCCAGGGATGTCCCTCCAGCCCTGGGATGGACTAGAGGAGCACAGCCAAGCCCTGAGTGGGAGGCTGC
GGCCATTCTCCAGAATCAGGAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222712 representing NM_004900
 Red=Cloning site Green=Tags(s)

MNPQIRNPMERMYRDTFYDNFENEPILYGRSYTWLCYEVKIKRGRSNLLWDTGVFRGQVYFKPQYHAEMC
 FLSWFCGNQLPAYKCFQITWVSWTPCPCDVAKLAEFLSEHPNVTLTISAARLYYWERDYRRALCRLSQ
 AGARVTIMDYEEFAYCWENFVYNEGQQFMPWYKFDENYAFHLRTLKEILRYLMDPDTFTFNNDPLVLR
 RRQTYLCEVERLDNGTWVLMQHMGLCNEAKNLLCGFYGRHAELRFLDLVPSLQLDPAQIYRVTFWIS
 WSPCFSWGACAGEVRAFLQENTHVRRLRIFAARIYDYDPLYKEALQMLRDAGAQVSIPTYDEFEYCWDTFFVY
 RQGCPFPQWDGLEEHSQALSGRRLRAILQNQGN

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2284_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004900

ORF Size: 1146 bp

OTI Disclaimer: 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: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_004900.5](#)

RefSeq Size: 1560 bp

RefSeq ORF: 1149 bp

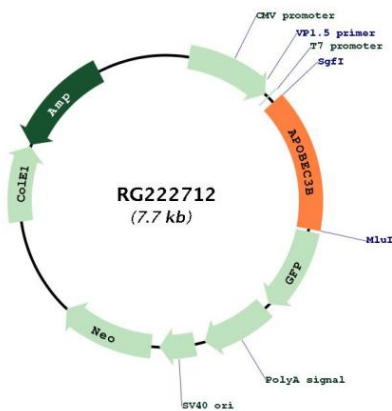
Locus ID: 9582

UniProt ID: [Q9UH17](#)

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]

Product images:



Circular map for RG222712