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Product datasheet for RG233866

APOBEC3B (NM_001270411) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APOBEC3B (NM_001270411) 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:

>RG233866 representing NM_001270411
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATCCACAGATCAGAAATCCGATGGAGCGGATGTATCGAGACACATTCTACGACAACTTTGAAAACG
AACCCATCCTCTATGGTCGGAGCTACACTTGGCTGTGCTATGAAGTGAAAATAAAGAGGGGCCGCTCAAA
TCTCCTTTGGGACACAGGGGTCTTTCGAGGCCAGGTGTATTTCAAGCCTCAGTACCACGCAGAAATGTGC
TTCCTCTCTTGGTTCTGTGGCAACCAGCTGCCTGCTTACAAGTGTTTCCAGATCACCTGGTTTGTATCCT
GGACCCCCTGCCCGGACTGTGTGGCGAAGCTGGCCGAATTCCTGTCTGAGCACCCCAATGTCACCCTGAC
CATCTCTGCCGCCCGCCTCTACTACTACTGGGAAAGAGATTACCGAAGGGCGCTCTGCAGGCTGAGTCAG
GCAGGAGCCCGCGTGAAGATCATGGACTATGAAGAATTTGCATACTGCTGGGAAAACTTTGTGTACAATG
AAGGTCAGCAATTCATGCCTTGGTACAAATTCGATGAAAATTATGCATTCCTGCACCGCACGCTAAAGGA
GATTCTCAGATACCTGATGGATCCAGACACATTCACTTTCAACTTTAATAATGACCCTTTGGTCCTTCGA
CGGCGCCAGACCTACTTGTGCTATGAGGTGGAGCGCCTGGACAATGGCACCTGGGTCCTGATGGACCAGC
ACATGGGCTTTCTATGCAACGAGTTGGACCCGGCCCAGATCTACAGGGTCACTTGGTTCATCTCCTGGAG
CCCCTGCTTCTCCTGGGGCTGTGCCGGGGAAGTGCGTGCGTTCCTTCAGGAGAACACACACGTGAGACTG
CGCATCTTCGCTGCCCGCATCTATGATTACGACCCCCTATATAAGGAGGCGCTGCAAATGCTGCGGGATG
CTGGGGCCCAAGTCTCCATCATGACCTACGATGAGTTTGAGTACTGCTGGGACACCTTTGTGTACCGCCA
GGGATGTCCCTTCCAGCCCTGGGATGGACTAGAGGAGCACAGCCAAGCCCTGAGTGGGAGGCTGCGGGCC
ATTCTCCAGAATCAGGGAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

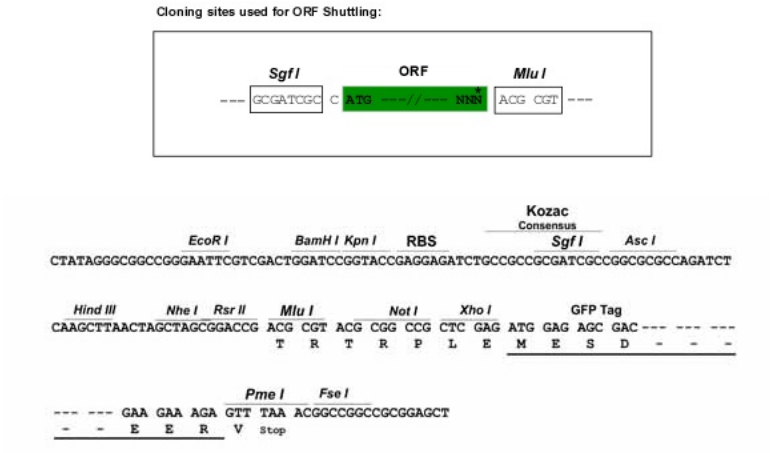
>RG233866 representing NM_001270411
Red=Cloning site Green=Tags(s)

MNPQIRNPMERMYRDTFYDNFENEPILYGRSYTWLCYEVKIKRGRSNLLWDTGVFRGQVYFKPQYHAEMC
FLSWFCGNQLPAYKCFQITWFVSWTPCPDCVAKLAEFLSEHPNVTLTISAARLYYYWERDYRRALCRLSQ
AGARVKIMDYEEFAYCWENFVYNEGQQFMPWYKFDENYAFLHRTLKEILRYLMDPDTFTFNFNNDPLVLR
RRQTYLCYEVERLDNGTWVLMDQHMGFLCNELDPAQIYRVTWFISWSPCFSWGCAGEVRAFLQENTHVRL
RIFAARIYDYDPLYKEALQMLRDAGAQVSIMTYDEFEYCWDTFVYRQGCPFQPWDGLEEHSQALSGRLRA
ILQNQGN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001270411

ORF Size: 1071 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_001270411.1, NP_001257340.1

RefSeq Size: 1485 bp

RefSeq ORF: 1074 bp

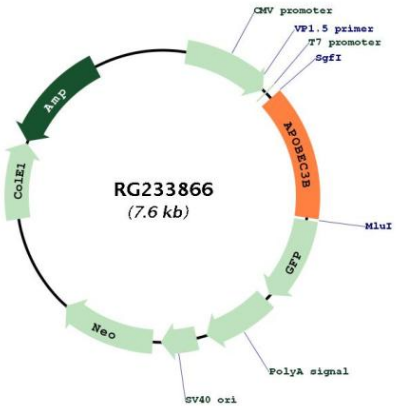
Locus ID: 9582

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 RG233866