

Product datasheet for **MG221030**

Apobec2 (NM_009694) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apobec2 (NM_009694) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Apobec2
Synonyms: Arp1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG221030 representing NM_009694
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCAGAAGGAAGAGGCCGCTGAGGCTGCGGCGCCAGCCTCTCAGAATGGAGATGATTTGGAGAACC
TGAAGACCCGTGAGAAGCTGAAAGAGCTGATCGATCTTCCGCCCTTCGAGATTGCTACTGGGGTGGCGCT
ACCAGTCAACTTCTTCAAGTTTCAGTTCCGGAACGTGGAATACAGTTCCGGGCGGAATAAGACCTTTCTC
TGCTATGTGGTGAAGTACAGAGTAAGGGCGCCAAGCGCAGGCGACGCAGGGCTACCTGGAGGATGAAC
ACGCAGGTGCCACGCCGAGGAGGCTTTCTTTAACACCATCCTGCCAGCTTCGACCCGGCCCTCAAGTA
CAACGTCACCTGGTATGTGTCTCCAGCCCTGTGCAGCCTGCGCTGACCGGATTCTCAAAACCCTCAGC
AAGACTAAGAACCTTCGTCTGCTCATTCTGGTGAGCCGGCTTTCATGTGGGAGGAGCCAGAGGTCCAGG
CCGCTCTGAAAAAGCTGAAGGAGGCCGGCTGCAAACCTTCGCATCATGAAACCCAGGACTTCGAGTACAT
CTGGCAGAATTTTGTGGAGCAAGAAGAGGGTGAATCCAAGGCTTTGAGCCCTGGGAGGACATTCAGGAG
AACTTCATACTATGAGGAGAAGTTGGCAGACATCCTGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG221030 representing NM_009694
 Red=Cloning site Green=Tags(s)

MAQKEEAAEAAAPASQNGDDLLENLEDPKELKELIDLPPFEIVTGVRLPVNFFKFQFRNVEYSSGRNKTF
 CYVVEVQSKGGQAQTQGYLEDEHAGAHAEAFNTILPAFDPAKYNVTWYVSSSPCAACADRILKTL
 KTKNLRLLILVSRLFMWEEPEVQAALKKLKEAGCKLRIMKPQDFEYIWNFVEQEESKAFEPWEDIQE
 NFLYYEEKLADILK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009694

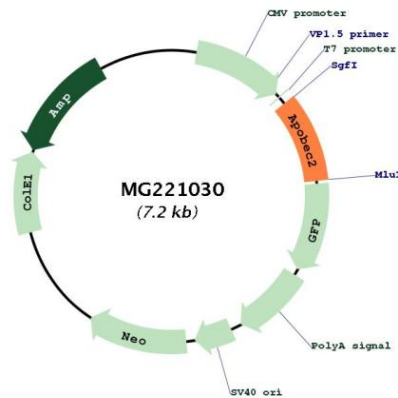
ORF Size: 672 bp

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](#)

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:	<ol style="list-style-type: none"> 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:	<u>NM_009694.3, NP_033824.1</u>
RefSeq Size:	1218 bp
RefSeq ORF:	675 bp
Locus ID:	11811
UniProt ID:	<u>Q9WV35</u>
Cytogenetics:	17 24.02 cM
Gene Summary:	Probable C to U editing enzyme whose physiological substrate is not yet known. Does not display detectable apoB mRNA editing. Has a low intrinsic cytidine deaminase activity. May play a role in the epigenetic regulation of gene expression through the process of active DNA demethylation.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MG221030