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Product datasheet for MG221033

Apobec1 (NM_001134391) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apobec1 (NM_001134391) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Apobec1
Synonyms:	Cdar1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG221033 representing NM_001134391
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTTCCGAGACAGGCCCTGTAGCTGTTGATCCCACTCTGAGGAGAAGAATTGAGCCCCACGAGTTTG
AAGTCTTCTTTGACCCCCGGGAGCTTCGGAAAGAGACCTGTCTGCTGTATGAGATCAACTGGGGTGGAAG
GCACAGTGTCTGGCGACACACGAGCCAAAACACCAGCAACCACGTTGAAGTCAACTTCTTAGAAAAATTT
ACTACAGAAAGATACTTTCGTCCGAACACCAGATGCTCCATTACCTGGTTCCTGTCCTGGAGTCCCTGCG
GGGAGTGCTCCAGGGCCATTACAGAGTTTCTGAGCCGACACCCCTATGTAACTCTGTTTATTTACATAGC
ACGGCTTTATCACCACACGGATCAGCGAAACCGCCAAGGACTCAGGGACCTTATTAGCAGCGGTGTGACT
ATCCAGATCATGACAGAGCAAGAGTATTGTTACTGCTGGAGGAATTTCGTCAACTACCCCCCTTCAAACG
AAGCTTATTGGCCAAGGTACCCCCATCTGTGGGTGAAACTGTATGTACTGGAGCTCTACTGCATCATTTT
AGGACTTCCACCCTGTTTAAAAATTTTAAGAAGAAAGCAACCTCAACTCACGTTTTTCACAATTACTCTT
CAAACCTGCCATTACCAAAGGATACCACCCCATCTCCTTTGGGCTACAGGGTTGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

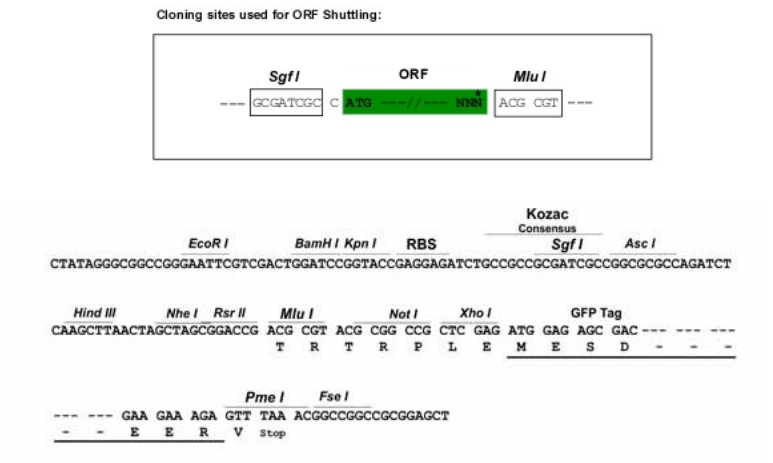
>MG221033 representing NM_001134391
Red=Cloning site Green=Tags(s)

MSSETGPVAVDPTLRRRIEPHEFEVFFDPRELRKETCLLYEINWGGRHSVWRHTSQNTSNHVEVNFLEKF
TTERYFRPNTRCSITWFLSWSPCGECSRAITEFLSRHPYVTLFIYIARLYHHTDQRNRQGLRDLISSGVT
IQIMTEQEYCYCWRNFVNYPPSNEAYWPRYPHLWVKLYVLELYCIILGLPPCLKILRRKQPQLTFFTITL
QTCHYQRIPPHLLWATGLK

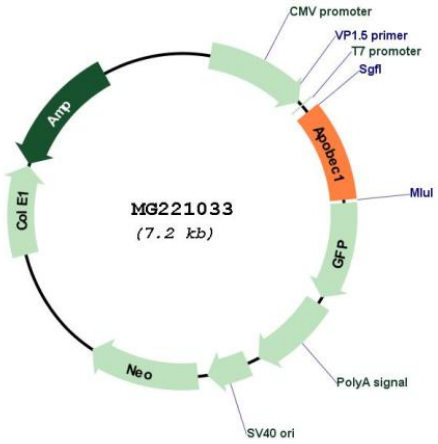
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001134391

ORF Size: 687 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_001134391.1, NP_001127863.1
RefSeq Size:	2209 bp
RefSeq ORF:	690 bp
Locus ID:	11810
UniProt ID:	P51908
Cytogenetics:	6 57.68 cM
Gene Summary:	Catalytic component of the apolipoprotein B mRNA editing enzyme complex which is responsible for the postranscriptional editing of a CAA codon for Gln to a UAA codon for stop in the APOB mRNA. May also play a role in the epigenetic regulation of gene expression by participating in DNA demethylation.[UniProtKB/Swiss-Prot Function]