

Product datasheet for **MR226390**

Apobec3 (NM_001160415) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apobec3 (NM_001160415) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Apobec3
Synonyms:	Apobec; Arp3; BC003314; Cem15; Rfv3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR226390 representing NM_001160415
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGACCATTCTGTCTGGGATGCAGCCATCGAAATGCTATTACCGATCAGAAACCTGATATCTCAAG
 AAACATTC AAGTTCCACTTTAAGAACCTAGGCTATGCCAAAGGCCGAAAGATACCTTCTGTGCTATGA
 AGTGACTAGAAAGGACTGCGATTACCCGCTCCCTTACCATGGGGTCTTTAAGAACAAGGACAACATC
 CACGCTGAAATCTGCTTTTTATACTGGTCCATGACAAAGTACTGAAAGTGTCTCCGAGAGAAGAGT
 TCAAGATCACCTGGTATATGTCTGGAGCCCTGTTTGAATGTGCAGAGCAGATAGTAAGGTTCTGGC
 TACACACCACAACCTGAGCCTGGACATCTCAGCTCCCGCTCTACAACGTACAGGACCCAGAAACCCAG
 CAGAATCTTGCAGGCTGGTTCAGGAAGGAGCCAGGTGGCTGCCATGGACCTATACGAATTTAAAAAGT
 GTTGAAGAAGTTTGTGGACAATGGTGGCAGGCGATTACGGCCTTGAAAAGACTGCTTACAAATTTTAG
 ATACCAGGATTCTAAGCTTCAGGAGATTCTGAGACCTTGCTACATCTCGTCCCTCCAGCTCTTATCC
 ACTCTGTCAAATATCTGTCTAACAAAAGGTCTCCAGAGACGAGGTTCTGGGTGGAGGCCAGGCGAATGG
 ACCCGCTAAGTGAAGAGGAATTTACTCGCAGTTTTACAACCAACGAGTCAAGCATCTCTGCTACTACCA
 CCGCATGAAGCCCTATCTATGCTACCAGCTGGAGCAGTTCAATGGCCAAGCGCCACTCAAAGGCTGCCTG
 CTAAGCGAGAAAGGCAAACAGCATGCAGAAATCCTCTTCTTGATAAGATTTCGGTCCATGGAGCTGAGCC
 AAGTGACAATCACCTGTACCTCACCTGGAGCCCTGCCAAACTGTGCCTGGCAACTGGCGGCATTCAA
 AAGGGATCGTCCAGATCTAATCTGCATATCTACACCTCCCGCCTGTATTCCACTGGAAGAGGCCCTTC
 CAGAAGGGGCTGTGTTCTCTGTGGCAATCAGGGATCCTGGTGGACGTATGGACCTCCACAGTTTACTG
 ACTGTGGACAAACTTTGTGAACCCGAAAAGCCGTTTTGGCCATGGAAGGATTGGAGATAATCAGCAG
 GCGCACACAAAGGCGGCTCCGCAGGATCAAGGAGTCTGGGGTCTGCAAGATTTGGTGAATGACTTTGGA
 AACCTACAGTTGGACCCCGATGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226390 representing NM_001160415
 Red=Cloning site Green=Tags(s)

MGPFCLGCSHRKCYSPIRNLISQETFKFHKNLGYAKGRKDTFLCYEVTRKDCDSPVSLHHGVFKNKDNI
 HAEICFLYWFHDKVLKVLSPREEFKITWYMSWSPCFECAEQIVRFLATHHNLSLDIFSSRLYNVQDPETQ
 QNL CRLVQEGAQVAAMDLYEFKKCWKFVDNNGRRFRPWKRLTNFRYQDSKLQELRPCYISVPSSSSS
 TLSNICLTKGLPETRFWVEGRRMDPLSEEFYSQFYNQRVKHLCYHRMKPYLCYQLEQFNGQAPLKGCL
 LSEKQKHAEILFLDKIRSMELSQVTITCYLTWSPCPNCAWQLAAFKRDRPDLILHIYTSRLYFHWKRPF
 QKGLCSLWQSGILVDVMDLPQFTDCWTFVNPKRPFWPWKGLEIISRRTQRRLRRIKESWGLQDLVNDFFG
 NLQLGPPMS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1999_e03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001160415

ORF Size: 1287 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:**
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_001160415.1](#), [NP_001153887.1](#)

RefSeq Size: 2459 bp

RefSeq ORF: 1290 bp

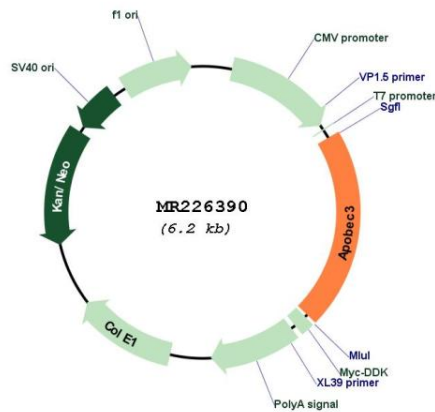
Locus ID: 80287

Cytogenetics: 15 37.85 cM

MW: 51.5 kDa

Gene Summary: DNA deaminase (cytidine deaminase) which acts as an inhibitor of retrovirus replication and retrotransposon mobility via deaminase-dependent and -independent mechanisms. Selectively targets single-stranded DNA and does not deaminate double-stranded DNA or single- or double-stranded RNA. Exhibits antiviral activity against HIV-1, simian immunodeficiency viruses (SIVs), mouse mammary tumor virus (MMTV) and friend murine leukemia virus (FrMLV) and may inhibit the mobility of LTR retrotransposons. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226390