

## Product datasheet for **MG226389**

### Apobec3 (NM\_030255) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Apobec3 (NM\_030255) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Apobec3  
**Synonyms:** Apobec; Arp3; BC003314; Cem15; Rfv3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG226389 representing NM\_030255  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGACCATTCTGTCTGGGATGCAGCCATCGCAAATGCTATTACCGATCAGAAACCTGATATCTCAAG  
 AAACATTCAGTTCCACTTTAAGAACCTAGGCTATGCCAAAGGCCGAAAGATACCTTCTGTGCTATGA  
 AGTGACTAGAAAGGACTGCGATTACCCGTCCTCCCTTACCATGGGGTCTTTAAGAACAAGGACAACATC  
 CACGCTGAAATCTGCTTTTTATACTGGTCCATGACAAAGTACTGAAAGTGTCTCCGAGAGAAGAGT  
 TCAAGATCACCTGGTATATGTCCTGGAGCCCTGTTTCGAATGTGCAGAGCAGATAGTAAGTTCCTGGC  
 TACACACCACAACCTGAGCCTGGACATCTTCAGCTCCCGCTCTACAACGTACAGGACCCAGAAACCCAG  
 CAGAATCTTGCAGGCTGGTTCAGGAAGGAGCCAGGTGGCTGCCATGGACCTATACGAATTTAAAAAGT  
 GTTGGAAGAAGTTTGTGGACAATGGTGGCAGGCGATTACGGCCTTGAAAAGACTGCTTACAAATTTTAG  
 ATACCAGGATTCTAAGCTTCAGGAGATTCTGAGGCGAATGGACCCGCTAAGTGAAGAGGAATTTACTCG  
 CAGTTTTACAACCAACGAGTCAAGCATCTCTGCTACTACCACCGCATGAAGCCCTATCTATGCTACCAGC  
 TGGAGCAGTTCAATGGCCAAGCGCCACTCAAAGGCTGCCTGCTAAGCGAGAAAGGCAAACAGCATGCAGA  
 AATCCTCTTCTTGATAAGATTCGGTCCATGGAGCTGAGCCAAGTACAATCACCTGCTACCTCACCTGG  
 AGCCCCTGCCCAAACCTGTGCCTGGCAACTGGCGCATTCAAAGGGATCGTCCAGATCTAATTCTGCATA  
 TCTACACCTCCCGCTGTATTTCCACTGGAAGAGGCCCTTCCAGAAGGGGCTGTGTTCTCTGTGGCAATC  
 AGGGATCTGGTGGACGTCATGGACCTCCACAGTTTACTGACTGCTGGACAAACTTTGTGAACCCGAAA  
 AGGCCGTTTTGGCCATGGAAAGGATTGGAGATAATCAGCAGGCGCACACAAAGGCGGCTCCGAGGATCA  
 AGGAGTCTGGGGTCTGCAAGATTTGGTGAATGACTTTGGAAACCTACAGCTTGGACCCCGATGTCT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA



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**Protein Sequence:** >MG226389 representing NM\_030255  
Red=Cloning site Green=Tags(s)

MGPFCLGCSHRKCYSPIRNLISQETFFKHFHFKNLGYAKGRKDTFLCYEVTRKDCDSPVSLHHGVFKNKDNI  
 HAEICFLYWFHDKVLKVLSPREEFKITWYMSWSPCFECAEQIVRFLATHHNLSLDIFSSRLYNVQDPETQ  
 QNL CRLVQEGAQVAAMDLYEFKKCWKFFVDNGRRFRPWKRLTNFRYQDSKLQEI LRRMDPLSEEFYS  
 QFYNQRVKHLCYYHRMKPYLCYQLEQFNGQAPLKGCLLSEK GKQHAELFLDKIRSMELSQVTITCYLTW  
 SPCNCAWQLAAFKRDRPDLILHIYTSRLYFHWKRP FQKGLCSLWQSGILVDVMDLPQFTDCWTFVNP  
 RPFWPWKLEIISRRTQRLRRIKESWGLQDLVNDFGNLQLGPPMS

TRTRPLE - GFP Tag - V

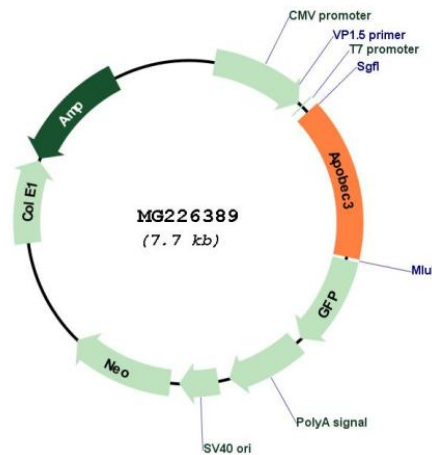
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_030255

<b>ORF Size:</b>	1188 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_030255.3</a> , <a href="#">NP_084531.2</a>
<b>RefSeq Size:</b>	2360 bp
<b>RefSeq ORF:</b>	1191 bp
<b>Locus ID:</b>	80287
<b>Cytogenetics:</b>	15 37.85 cM
<b>Gene Summary:</b>	<p>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]</p>