

Product datasheet for **MR200301**

Apoc3 (NM_023114) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apoc3 (NM_023114) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Apoc3
Synonyms: apo-CIII; apoC-III
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200301 representing NM_023114
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGCCCCGGACGCTCCTCACTGTGGCCCTTTGGCTCTCCTGGCATCTGCCGAGCTGAAGAGGTAG
 AGGGATCCTTGCTGCTGGGCTCTGTGCAGGGCTACATGGAACAAGCCTCCAAGACGGTCCAGGATGCGCT
 AAGTAGCGTGCAGGAGTCCGATATAGCTGTGGTGGCCAGGGCTGGATGGACAATCACTTCAGATTCTG
 AAAGGCTACTGGAGCAAGTTTACTGACAAGTTCACCGGCTTCTGGGATTCTAACCTGAGGACCAACCAA
 CTCCAGCTATTGAGTCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200301 representing NM_023114
 Red=Cloning site Green=Tags(s)
 MQPRTLLTVALLALLASARAEEVEGSLLLGVSQGYMEQASKTVQDALSSVQESDIAVVARGWMDNHRFL
 KGYWSKFTDKFTGFWDSPEDQPTPAIES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:



ACCN: NM_023114

ORF Size: 297 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_023114.1](#), [NM_023114.2](#), [NM_023114.3](#), [NM_023114.4](#), [NP_075603.1](#)

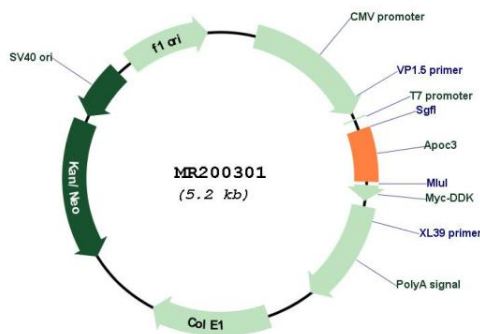
RefSeq Size: 525 bp

RefSeq ORF: 300 bp

Locus ID: 11814
UniProt ID: [P33622](#)
Cytogenetics: 9 25.36 cM
MW: 11.4 kDa

Gene Summary: This gene encodes an apolipoprotein which is the major protein component of very-low-density lipoproteins (VLDL) and a minor component of high-density lipoproteins (HDL). The encoded protein is thought to regulate the metabolism of triglyceride-rich lipoproteins and play a role in lipid storage and the mobilization of fat cells. This gene is clustered with three other apolipoprotein genes on chromosome 9 and is associated with coronary disease. Mice lacking this gene have lower levels of total cholesterol in the plasma. Mutations in the human genes causes hyperalphalipoproteinemia 2, a disorder of lipid metabolism which results in a favorable lipid profile (lower LDL-cholesterol, higher HDL-cholesterol and lower levels of serum triglycerides when fasting and after a meal). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

Product images:



Circular map for MR200301