OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC225621

Apoc3 (NM_001289756) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apoc3 (NM_001289756) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Apoc3
Synonyms:	apo-CIII; apoC-III
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC225621 representing NM_001289756 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCAGCCCCGGACGCTCCTCACTGTGGCCCTCTTGGCTCTCCTGGCATCTGCCCGAGCTGAAGAGGTAG AGGGATCCTTGCTGCTGGGCTCTGTACAGGGCTACATGGAACAAGCCTCCAAGACGGTCCAGGATGCGCT AAGTAGCGTGCAGGAGTCCGATATAGCTGTGGTGGCCAGGGGCTGGATGGACAATCACTTCAGATCCCTG AAAGGCTACTGGAGCAAGTTTACTGACAAGTTCACCGGCTTCTGGGATTCTAACCCTGAGGACCAACCAA CTCCAGCTATTGAGTCGTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001289756
Insert Size:	300 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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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_001289756.1, NP_001276685.1
RefSeq Size:	601 bp
RefSeq ORF:	300 bp
Locus ID:	11814
UniProt ID:	P33622
Cytogenetics:	9 25.36 cM
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] Transcript Variant: This variant (2) represents the use of an alternate promoter, differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream start codon compared to variant 1. The encoded isoform (b) has a shorter N-terminus compared to isoform a. Variants 2 and 3 encode the same protein.

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