

Product datasheet for SC119124

Apolipoprotein CI (APOC1) (NM_001645) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apolipoprotein CI (APOC1) (NM_001645) Human Untagged Clone
Tag:	Tag Free
Symbol:	Apolipoprotein CI
Synonyms:	Apo-CI; apo-CIB; ApoC-I; apoC-IB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119124 sequence for NM_001645 edited (data generated by NextGen Sequencing) ATGAGGCTCTTCTGTCGCTCCCGTCCTGGTGGTGGTTCTGTCGATCGTCTTGAAGGC CCAGCCCCAGCCAGGGACCCAGACGCTCCAGTGCCTTGGATAAGCTGAAGGAGTTT GGAAACACACTGGAGGACAAGGCTCGGGAACATCAGCCGCATCAAACAGAGTGAAGT TCTGCCAAGATGCGGGAGTGGTTTTAGAGACATTTAGAAAAGTGAAGGAGAACTCAAG ATTGACTCATGA

Clone variation with respect to NM_001645.3

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001645 unedited GCACCAGCAAGGATTCAGAGTGCCCTCCGGCCTCGCCATGAGGCTCTTCTGTCGCTCC CGGTCTGGTGGTGGTTCTGTCGATCGTCTTGAAGGCCAGCCCCAGCCAGGGGACCC CAGACGCTCCAGTGCCTTGGATAAGCTGAAGGAGTTTGGAAACACACTGGAGGACAAGG CTCGGGAACATCAGCCGCATCAAACAGAGTGAAGTCTTCTGCCAAGATGCGGGAGTGGT TTTCAGAGACATTTAGAAAAGTGAAGGAGAACTCAAGATTGACTCATGAGGACCTGAAG GGTGACATCCCAGGAGGGCCTCTGAAATTTCCACACCCAGCGCTGTGCTGAGGACT CCCTCCATGTGGCCCCAGGTGCCACCAATAAAAATCCTACAGAAAATTCAAAAAAAAA AAAAAACTCGACTCTAGATTGCGGCCGCGTCAAGCTGTTTCTGAACAGATCCCGGG TGGCATCCCTGTGACCCCTCCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGT CCCACCAGCCTTGTCTAATAAAATTAAGTTGCATCATTTTGTCTGACTAGGTGTCCTTC TATATATATGGG
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001645 unedited GCCACCCACANNANAACCCCATCACCCACAANNNTTGGACTTGNCCGCGCCCGCTTTCTA GNGATCGGTTTTTTTTTTTTTTTTTTTNGAATTTCTGTATGATTTTTATTGGTGCCACCTG GGGCCACATGGAGGGAGTCTCAGCACAGGCGCTGGGGTGTGGGAAATTCAGAGGCCCC TCCTGGGATGTCACCCTCAGGTCCTCATGAGTCAATCTTGAGTTTCTCCTTCACTTTCT GAAATGTCTCTGAAAACCACTCCCGCATTTGGCAGAAAGTTCACTCTGTTTGATGCGGC TGATGAGTTCGCGAGCCTTGCTCCAGTGTGTTTCCAAACTCCTTCAGCTTATCCAAGG CACTGGAGACGTCTGGGGTCCCCTGGGGCTGGGGCTGGGCCTTCCAAGACGATCGACAGAA CCACCACCAGGACCGGGAGCGACAGGAAGAGCCTCATGGCGAGGCCGAGGGGCACTCTG AATCCTTGCTGGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAAATTCTGA CGGTTCACTAAACGAGCTCTGCTTATATAGACCTCCACCGTACACGCCTACCGCCATT TGCGTCAACGGGGCGGGTTATTACGACATTTGGAAAGTCCCGTTGATTTTGGTGCCAA AACAACTCCATTGACGTCAATGGGGTGGAGACTTGGAAATCCCGTGAGTCAAACCGC TATCCACGCCATTGGTGTACTGCCAAAACCGCATCACCATGGGTATAGCGATGACTAAT ACGTAGATGTACTGCCAAGTANGAAAGTCCCGTAAGGCCATGTACTGGGCATAATGCCAG GCGGCCCATTTACCGCCATTGACGTCAATAGGGGGCCGAAGTTGGCTATGATACACTTGA TGTAAGTCCCAAGTGGC
Restriction Sites:	NotI-NotI
ACCN:	NM_001645
Insert Size:	450 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).
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:	<ol style="list-style-type: none"> 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_001645.3 , NP_001636.1
RefSeq Size:	464 bp
RefSeq ORF:	252 bp
Locus ID:	341
UniProt ID:	P02654
Cytogenetics:	19q13.32
Domains:	ApoC-I
Protein Families:	Secreted Protein

Gene Summary:

This gene encodes a member of the apolipoprotein C1 family. This gene is expressed primarily in the liver, and it is activated when monocytes differentiate into macrophages. The encoded protein plays a central role in high density lipoprotein (HDL) and very low density lipoprotein (VLDL) metabolism. This protein has also been shown to inhibit cholesteryl ester transfer protein in plasma. A pseudogene of this gene is located 4 kb downstream in the same orientation, on the same chromosome. This gene is mapped to chromosome 19, where it resides within a apolipoprotein gene cluster. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Sep 2016]

Transcript Variant: This variant (1) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein. This transcript is expressed primarily in the liver.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.