

Product datasheet for **SC119852**

Apolipoprotein CII (APOC2) (NM_000483) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apolipoprotein CII (APOC2) (NM_000483) Human Untagged Clone
Tag:	Tag Free
Symbol:	Apolipoprotein CII
Synonyms:	APO-CII; APOC-II
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_000483 edited
 ATGGGCACACGACTCCTCCCAGCTCTGTTTCTTGTCTCCTCTGGTATTGGGATTTGAGGTC
 CAGGGGACCCCAACAGCCCCAGCAAGATGAGATGCCTAGCCCGACTTCTCACCCAGGTG
 AAGGAATCTCTCTCCAGTTACTGGGAGTCAGCAAAGACAGCCGCCAGAACCTGTACGAG
 AAGACATACCTGCCCGCTGTAGATGAGAACTCAGGGACTTGTACAGCAAAGCACAGCA
 GCCATGAGCACTTACACAGGCATTTTTACTGACCAAGTCTTTCTGTGCTGAAGGGAGAG
 GAGTAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000483 unedited
 GGGGTTTCAGCATTTTGTAAATACGACTCACTATAGGGCGGCCCGAATTCGCACGAGGCC
 TGCCAGAGTCTGGTCTCTGGACACTATGGGCACACGACTCCTCCCAGCTCTGTTTCTTGT
 CCTCCTGGTATTGGGATTTGAGGTCCAGGGGACCCCAACAGCCCCAGCAAGATGAGATGCC
 TAGCCCGACTTCTCACCCAGGTGAAGGAATCTCTCTCCAGTTACTGGGAGTCAGCAA
 GACAGCCGCCAGAACCTGTACGAGAAGACATACCTGCCCGCTGTAGATGAGAACTCAG
 GGACTTGTACAGCAAAGCACAGCAGCCATGAGCACTTACACAGGCATTTTTACTGACCA
 AGTTCTTTCTGTGCTGAAGGGAGAGGATAACAGCCAGACCCCCATCAGTGACAAGGG
 GAGAGTCCCCTACTCCCCTGATCCCCAGGTTGACTGAGCTCCCCCTCCCAGTAGCT
 CTTGCATCCTCCTCCCACTCTAGCCTGAATTCTTTCAATAAAAAATACAATTCAGTT
 GCTTCTCATGGATGGCACTGCTTTTCTGAGGACTCAAGGGCCAAGATGGAGGGGCTGACT
 CAGTCCAGCCAACATTTAATGAGCACCTACTTTATGTATGGAGCTCTAACCCATGGGTCC
 ATGGGAATAAAGCAGTGAATAGTAACAATAAATAATCGTAACAGCAAAAAAAAAAAAAA
 AAAACTCGACTCTAGATTGCGGCCGCGTTCATAGCTGTTTCTGAACAGATCCCGGGTGG
 CATCCCTGTGACCCCTNCCCAGTGCCTTTCCTGGCCCTGGAGTTGCCACTCCAGTGCCCA
 CCAGCCTGTCTAATAAAAAAAGTGCATCATTNTGTCTGACTAGGTGTCCTTCTATAAT
 ATATAGGGTGAG



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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000483 unedited NNTTCTTTGCCCGCGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTGCTGTTA CGATTATTTATTGTTACTATTCACTGCTTTATCCCATGGACCCATGGGTTAGAGCTCCA TACATAAAGTAGGTGCTCATTAAATGTTGGCTGGACTGAGTCAGCCCCTCCATCTTGCC CTTGAGTCCTCAGAAAAGCAGTGCCATCCATGAGAAGCAACTTGAATTGTATTTTTTATT GAAAAGAATTGAGGCTAGAGTTGGGAGGAGGATGCAAAGCTTACTGGGAAGGGGGAGCTC AGTCTGAACCTGGGGGATCAGGGGAGTAGGGGACTCTCCCTTGTCCACTGATGGGGGGT CTGGCTGTTACTCTCCCTTCAGCACAGAAAGAACTTGGTCAGTAAAAATGCCTGTGT AAGTGCTCATGGCTGCTGTGCTTTTGTGTACAAGTCCCTGAGTTTCTCATCTACAGCGG GCAGGTATGTCTTCTCGTACAGTTCTGGGCGGCTGTCTTTGCTGACTCCCAGTAACTGG AGAGAGATTCTTACCTGNGTGAGGAAGGTCGGGCTAGGCATCTCATCTTGCTGGGGCT GTTGGGTCCTGGACCTCAAATCCCAATACCAGGAGGACAAGAAACAGAGCTGGGAGGA GTCGTGTGCCATAGTGTCCAGAGACCAGACTCTGGGCAGCCTCGTGCCGAATTCGCGGC CGCCCTATAGTGAGTCGTATTACAAAATCTGACGGTTCACTAAACGAGCTCTGCTTATA TAGACCTNCCACGTACACGCCTACCGNCCATTTGCGTACGGGGGCGGNGNTATTACGA CATTTTGGAAAAGTCCGNNTGATTTGGTGCCAAACAACTCCNATNGAGTCATGGGGG TGAGACTTGAATNCCCCTGAGTCAACCGCTATCACGCCATTGGTGACTGCCAAACCGAT CACATGGTATAGCN
Restriction Sites:	NotI-NotI
ACCN:	NM_000483
Insert Size:	730 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_000483.3 , NP_000474.2
RefSeq Size:	753 bp
RefSeq ORF:	306 bp
Locus ID:	344
UniProt ID:	P02655
Cytogenetics:	19q13.32
Protein Families:	Druggable Genome, Secreted Protein

Gene Summary:

This gene encodes a lipid-binding protein belonging to the apolipoprotein gene family. The protein is secreted in plasma where it is a component of very low density lipoprotein. This protein activates the enzyme lipoprotein lipase, which hydrolyzes triglycerides and thus provides free fatty acids for cells. Mutations in this gene cause hyperlipoproteinemia type IB, characterized by hypertriglyceridemia, xanthomas, and increased risk of pancreatitis and early atherosclerosis. This gene is present in a cluster with other related apolipoprotein genes on chromosome 19. Naturally occurring read-through transcription exists between this gene and the neighboring upstream apolipoprotein C-IV (APOC4) gene. [provided by RefSeq, Mar 2011]