

Product datasheet for **SC110828**

Apolipoprotein A I (APOA1) (NM_000039) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apolipoprotein A I (APOA1) (NM_000039) Human Untagged Clone
Tag:	Tag Free
Symbol:	Apolipoprotein A I
Synonyms:	apo(a); HPALP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110828 sequence for NM_000039 edited (data generated by NextGen Sequencing)

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ATGAAAGCTGCGGTGCTGACCTTGCCGTGCTCTTCTGACGGGAGCCAGGCTCGGCAT
TTCTGGCAGCAAGATGAACCCCCCAGAGCCCCTGGGATCGAGTGAAGGACCTGGCCACT
GTGTACGTGGATGTGCTCAAAGACAGCGCAGAGACTATGTGTCCAGTTGAAGGCTCC
GCCTTGGGAAAACAGCTAAACCTAAAGCTCCTTGACAACTGGGACAGCGTGACCTCCACC
TTCAGCAAGCTGCGGAACAGCTCGGCCCTGTGACCCAGGAGTTCTGGGATAACCTGGAA
AAGGAGACAGAGGGCCTGAGGCAGGAGATGAGCAAGGATCTGGAGGAGGTGAAGGCCAAG
GTGCAGCCCTACCTGGACGACTCCAGAAGAAGTGGCAGGAGGAGATGGAGCTCTACCGC
CAGAAGGTGGAGCCGCTGCGCGCAGAGCTCCAAGAGGGCGCGCCAGAAGCTGCACGAG
CTGCAAGAGAAGCTGAGCCCACTGGGCGAGGAGATGCGCGACCGCGCGCGCCCATGTG
GACGCGCTGCGCACGCATCTGGCCCCCTACAGCGACGAGCTGCGCCAGCGCTTGGCCGCG
CGCCTTAGGGCTCTCAAGGAGAACGCGCGGCCAGACTGGCCGAGTACCACGCCAAGGCC
ACCGAGCATCTGAGCACGCTCAGCGAGAAGGCCAAGCCCGCGCTCGAGGACCTCCGCCAA
GGCCTGTGCCCGTGCTGGAGAGCTTCAAGGTCAGCTTCTGAGCGCTCTCGAGGAGTAC
ACTAAGAAGCTCAACACCCAGTGA

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Clone variation with respect to NM_000039.1



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000039 unedited</p> <pre>GGATTTTGTATACGACTCACTATAGGCGGCCGGAATCGGCACGAGAGGAGGTCCCCAC GGCCCTTCAGGATGAAAGCTGCGGTGCTGACCTTGCCGTGCTCTTCTGACGGGAGCC AGGCTCGGCATTTCTGGCAGCAAGATGAACCCCCCAGAGCCCTGGGATCGAGTGAAGG ACCTGGCCACTGTGTACGTGGATGTGCTCAAAGACAGCGGCAGAGACTATGTGTCCCAGT TTGAAGGCTCCGCCTTGGGAAAAACAGCTAAACCTAAAGCTCCTTGACAACCTGGGACAGCG TGACCTCCACCTTCAGCAAGCTGCGCGAACAGCTCGGCCCTGTGACCCAGGAGTTCTGGG ATAACCTGAAAAAGGAGACAGAGGGCCTGAGGCAGGAGATGAGCAAGGATCTGGAGGAGG TGAAGGCCAAGGTGCAGCCCTACCTGGACGACTTCCAGAAGAAGTGGCAGGAGGAGATGG AGCTCTACCGCCAGAAGGTGGAGCCGCTGCGCGCAGAGCTCCAAGAGGGCGCGCCAGA AGCTGCACGAGCTGCAAGAGAAGCTGAGCCACTGGGCGAGGAGATGCGCGACCGCGCGC GCGCCCATGTGGACGCGCTGCGCACGCATCTGGCCCCCTACAGCGACGAGCTGCGCCAGC GCTTGGCCGCGCCCTTGAAGCTCTCAAGGAGAACGGCGCGCCAGACTGGCCGAGTACC ACGCCAAGGCCACCGAGCATCTGAGCACGCTCAGCGAGAAGGCCAAGCCCGCGCTCGAGG ACCTNCGCCAAGCCTGCTGCCCGTGTGGAGAGCTTCAAGTCAAGTCTTCTGAGCGCTCTC GAGGGAGTACACTAGAGCTCACACCCAGTGAGGCGCCNCGCGCCCTTNNNCGTCTAG AATAAACGTTCCAAGTGGAAAAAATAAAAAAAAAAAAAAAAAACTCACTTAATGCGNCGGNC TACTGTTCTGACGACCGGGTGGATCTTGGACCTCCAGGCTTCGT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000039 unedited</p> <pre>GCCATTGGNGATGGCACTNTCCAGGTCCAGNANAGCACTGGGGNAGGGTCACAGGGATGC CACCCGGGTATCTGTTTCAGGAAAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCACTTTGAAACGTTTATTCTGAGCACC GGGAAGGGGGGGCGCGGGGCCCTCACTGGGTGTTGAGCTTTTAGTGTACTCCTCGA GAGCGCTCAGGAAGCTGACCTTGAAGCTCTCCAGCACGGGCAGCAGGCCCTTGGCGGAGGT CCTCGAGCGCGGGCTTGGCCTTCTCGCTGAGCGTGTCAAATGCTCGGTGGCCTTGGCGT GGTACTCGGCCAGTCTGGCGCCCGCTTCTCCTTGAGAGCCTCAAGGCGCGCGCCAAAGC GCTGGCGCAGCTTGTCTCTGTAGGGGGCCAAATGCGTGCGCAGCGCTCCACATGGGCGC GCGCGCGTCTCGCATCTCCTTTCCAGTGGGCTCAGTCTTTTTGCAGCTCGTGCAATT TCTGGCGCGCCCTCTTGGAGCTCTGCGCGCAGCGGCTCCATCTTTTGGCGGAGAGCT CCATCTCTCTGCCACTTTTTTTGGAAGTCTTCCAGGTAGGGTTGAACCTTTGGCCTTCA CCCCCTCAAATTCTTGGTCATCTCCTGCCCTAGGCCCTGTCTTCTTTTTTCAGGTTAT CCCAAACTTCTGGGTCAAAAGGCCGAACTTGTCCCGCAACTTGTGAAAGGGGGAGG TCACCCTTTCATTTTGCAAAGGAGCCTTAAAGTTAACTTGTTCCAAAGCGGGGCC CTTAAACTGGGAAAAATTCCTCTGCCCTGTTTTTACCATCCACTTCCGGTGGCCAGT TTCTTCACATCATCCCGGGTTTTG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_000039
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_000039.1 , NP_000030.1
RefSeq Size:	897 bp
RefSeq ORF:	804 bp
Locus ID:	335
UniProt ID:	P02647
Cytogenetics:	11q23.3
Domains:	Apolipoprotein
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	PPAR signaling pathway
Gene Summary:	<p>This gene encodes apolipoprotein A-I, which is the major protein component of high density lipoprotein (HDL) in plasma. The encoded preproprotein is proteolytically processed to generate the mature protein, which promotes cholesterol efflux from tissues to the liver for excretion, and is a cofactor for lecithin cholesterolacyltransferase (LCAT), an enzyme responsible for the formation of most plasma cholesteryl esters. This gene is closely linked with two other apolipoprotein genes on chromosome 11. Defects in this gene are associated with HDL deficiencies, including Tangier disease, and with systemic non-neuropathic amyloidosis. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein. [provided by RefSeq, Dec 2015]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform. Variants 1-3 encode the same isoform (1).</p>