

## Product datasheet for SC100197

### Apolipoprotein L 1 (APOL1) (NM\_145344) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Apolipoprotein L 1 (APOL1) (NM_145344) Human Untagged Clone
Tag:	Tag Free
Symbol:	Apolipoprotein L 1
Synonyms:	APO-L; APOL; APOL, APO-L, APOL-I; APOL-I; apolipoprotein L, 1; apolipoprotein L-I; apolipoprotein L1; OTTHUMP00000028705
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100197 sequence for NM_145344 edited (data generated by NextGen Sequencing)

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ATGGAGGGAGCTGCTTTGCTGAGAGTCTCTGTCCTCTGCATCTGGATGAGTGCACCTTTTC
CTTGGTGTGGGAGTGAGGGCAGAGGAAGCTGGAGCGAGGGTGCAACAAAACGTTCCAAGT
GGGACAGATACTGGAGATCCTCAAAGTAAGCCCCTCGGTGACTGGGCTGCTGGCACCATG
GACCCAGAGAGCAGTATCTTTATTGAGGATGCCATTAAGTATTTCAAGGAAAAAGTGAGC
ACACAGAATCTGCTACTCCTGCTGACTGATAATGAGGCCTGGAACGGATTCTGGCTGCT
GCTGAACTGCCCAGGAATGAGGCAGATGAGCTCCGTAAGCTCTGGACAACCTTGCAAGA
CAAATGATCATGAAAGACAAAACTGGCAGATAAAGGCCAGCAGTACAGAACTGGTTT
CTGAAAGAGTTTCTCGGTTGAAAAGTAAGCTTGAGGATAACATAAGAAGGCTCCGTGCC
CTTGACAGATGGGTTTCTGAAAGTCCACAAAGGCCACCACCATCGCCAATGTGGTGTCTGGC
TCTCTCAGCATTTCTCTGGCATCCTGACCCTCGTCGGCATGGGTCTGGCACCCCTCACA
GAGGGAGGCAGCCTTGTACTCTTGAACCTGGGATGGAGTTGGGAATCACAGCAGCTTTG
ACCGGGATTACCAGCAGTACCATAGACTACGGAAGAAGTGGTGGACACAAGCCCAAGCC
CAGGACCTGGTCATCAAAGCCTTGACAAATTGAAGGAGGTGAAGGAGTTTTTGGGTGAG
AACATATCCAACCTTTCTTTCTTAGCTGGCAATACTTACCAACTCACACGAGGCATTGGG
AAGGACATCCGTGCCCTCAGACGAGCCAGGCCAATCTTCAGTCAGTACCGCATGCCCTCA
GCCTCACGCCCCCGGGTCACTGAGCCAATCTCAGCTGAAAGCGGTGAACAGGTGGAGAGG
GTTAATGAACCCAGCATCCTGGAATGAGCAGAGGAGTCAAGCTCACGGATGTGGCCCCT
GTAAGCTTCTTTCTGTGCTGGATGTAGTCTACCTCGTGTACGAATCAAAGCACTTACAT
GAGGGGGCAAAGTCAGAGACAGCTGAGGAGCTGAAGAAGTGGCTCAGGAGCTGGAGGAG
AAGCTAAACATTCTCAACAATAATTATAAGATTCTGCAGGCGGACCAAGAAGTGTGA

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Clone variation with respect to NM\_145344.1  
448 g=>a;654 c=>a;684 g=>a;764 g=>a



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_145344 unedited</p> <pre>AATTTGTA CTACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTGGAGGTGGGA TCCACACAGCTCAGACAGCTGGATCTTGCTCAGTCTCTGCCAGGGGAAGATTCCTTGGAG GAGGCCCTGCAGCGACATGGAGGGAGCTGCTTTGCTGAGAGTCTCTGTCTCTGCATCTG GATGAGTGCAC TTTTCTTGGTGTGGGAGTGAGGGCAGAGGAAGCTGGAGCGAGGGTGCA ACAAAACGTTCCAAGTGGGACAGATACTGGAGATCCTCAAAGTAAGCCCCCTCGGTGACTG GGCTGCTGGCACCATGGACCCAGAGAGCAGCATCTTTATTGAGGATGCCATTAAGTATTT CAAGGAAAAAGTGAGCACACAGAATCTGCTACTCCTGCTGACTGATAATGAGGCCTGGAA CGGATTCGTGGCTGCTGCTGAACTGCCAGGAATGAGGCAGATGAGCTCCGTAAAGCTCT GGACAACCTTGCAAGACAAATGATCATGACAGACAAAACTGGCACGATAAAGGCCAGCA GTACAGAAACTGGTTTCTGAAAGAGTTTCTCGGTTGAAAAGTAAGCTTGAGGATAACAT AAGAAGGCTCCGTGCCCTTGAGATGGGGTTCAGAAGGCCACAAAGGCACCCACCATCG CCAATGTGGTGTCTGGCTCTCTCAACATTTCTCTGGCATCCTGACCCTCGTCGGCATGG GTCTGGCACCCCTTACAGAGGGAGGCACCCCTGCACTCTTGACCTGNGATGGAGTTGGG AATCACAACCGCTCTCGACGGGATTACCCCCGTACCATAGCCTCACCGAAGGAAGTGGG GACAACAAGCCCCAGCCCAGACCTGGCCATAAAAGCCTTGACAATTGN</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_145344 unedited</p> <pre>TAGCTCTGNAACGCCGCACGCATCTAGNGATCGAGTTTTTTTTTTTTTTTTTTTGGATGAGT AGGTGAGTTTATTGGGACTTACACACAGGTCAATCCTGGGCGGCGACAAGACAGCTCTAG AGATCTGAGCTTCTCCCAATGCTAAACTGCTTTCATGCTAATTTTCTGACTGTTTACTT ACCGGGTAAGAGCGATGGGACTGTTTTTCATTGGTTGGTCTCACATACTCTCTGGGAAGT TTGGGTTCTCAGGGACACCTGCTCCTCAGCTGGGGACCATGGCCATGGCCCACCACCTGC CCTTCAGTGTTCAAGCAGGGGACATGCACCCTTAGTAACCTGGAGGGGACCCATCACAT GACAACCACCCCAACGACCATCATCAGGAAGCCGCTGCCTGACTGAGATATGCCCCCAGG AGGACAAGGGAGAGTGGATGCTGGAAAGACAGGGCAGGGGACCATCACCAGGGAAAGACT TCATTTCTGGAGGACATTGAACCTGGGGCTGGGTCTGTAGTGGAGCCGCTGTTTTCTTCT CCTGTATCCAAC TGTCTAACTTTGGGCTTTCTCCATTTTTCAGCTCTTTCTTTTCTGG CCTTCTCATTGCTGGNTCCTTCAAGCCTCCTCTCTATTCTTCCGTCAATATATCTTTTT CCTTTTTTTTCCCTGAGATGGAGTCTCGCTCTGTACCCAGCCTGGAGTGCAGTGGCGACA TCTCGGCTCACTGCAAGCTCCAACCTGGCGACAGAGCAAGACTCTGTCTCAGAATAAAAA AAAGCTTGCAATTTGTCTGGCCCTGCCAAGCATATCTCTCCTGGTGGCTGCCCTGCC TGTGGTCACAGTCTTGGTCCGCCTGCAGAAATTTATAATTATTGGTGGGAAGGTTAACTT CTTCTCAGCTCCTGAGCCACCTTTTCAACTCCTCAGCTGGCTTGGACTCTGCCCTCC AGTGAGAGCTTTN</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_145344
<b>Insert Size:</b>	2150 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_145344.1](#), [NP\\_663319.1](#)

**RefSeq Size:** 2158 bp

**RefSeq ORF:** 1197 bp

**Locus ID:** 8542

**Cytogenetics:** 22q12.3

**Protein Families:** Secreted Protein, Transmembrane

**Gene Summary:** This gene encodes a secreted high density lipoprotein which binds to apolipoprotein A-I. Apolipoprotein A-I is a relatively abundant plasma protein and is the major apoprotein of HDL. It is involved in the formation of most cholesteryl esters in plasma and also promotes efflux of cholesterol from cells. This apolipoprotein L family member may play a role in lipid exchange and transport throughout the body, as well as in reverse cholesterol transport from peripheral cells to the liver. Several different transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2008]  
Transcript Variant: This variant (3) differs in the 3' UTR compared to variant 1. Both variants 1 and 3 encode isoform a.