

## Product datasheet for **SC325852**

### Apolipoprotein L 1 (APOL1) (NM\_001136541) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Apolipoprotein L 1 (APOL1) (NM_001136541) Human Untagged Clone
Tag:	Tag Free
Symbol:	Apolipoprotein L 1
Synonyms:	APO-L; APOL; APOL-I; FSGS4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325852 representing NM_001136541. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**  
 ATGGAGGGAGCTGCTTTGCTGAGAGTCTCTGCTCTGTCATCTGGGTGCAACAAACGTTCCAAGTGGG  
 ACAGATACTGGAGATCCTCAAAGTAAGCCCTCGGTGACTGGGCTGCTGGCACCATGGACCCAGAGAGC  
 AGTATCTTTATTGAGGATGCCATTAAGTATTTCAAGGAAAAAGTGAGCACACAGAATCTGCTACTCCTG  
 CTGACTGATAATGAGGCCTGGAACGGATTCGTGGCTGCTGCTGAAGTCCCGAGGAATGAGGCAGATGAG  
 CTCCGTAAAGCTCTGGACAACCTTGCAAGACAAATGATCATGAAAGACAAAACTGGCACGATAAAGGC  
 CAGCAGTACAGAACTGGTTTCTGAAAGAGTTTCTCGGTTGAAAAGTGAGCTTGAGGATAACATAAGA  
 AGGCTCCGTGCCCTTGACAGATGGGTTTCAGAAGGTCCACAAAGGCACCACCATCGCCAATGTGGTGTCT  
 GGCTCTCTCAGCATTTCTCTGGCATCCTGACCTCGTCGGCATGGGTCTGGCACCCCTTCACAGAGGGA  
 GGCAGCCTTGTACTCTTGGAACCTGGGATGGAGTTGGGAATCACAGCCGCTTTGACCGGGATTACCAGC  
 AGTACCATGGACTACGGAAAGAAGTGGTGGACACAAGCCCAAGCCACGACCTGGTCATCAAAGCCTT  
 GACAAATTGAAGGAGGTGAGGGAGTTTTGGGTGAGAACATATCCAACCTTTCTTCTAGCTGGCAAT  
 ACTTACCAACTCACACGAGGCATTGGGAAGGACATCCGTGCCCTCAGACGAGCCAGAGCCAATCTTCAG  
 TCAGTACCGCATGCCTCAGCCTCAGCCCCCGGGTCACTGAGCCAATCTCAGCTGAAAGCGGTGAACAG  
 GTGGAGAGGGTTAATGAACCCAGCATCCTGGAATGAGCAGAGGAGTCAAGCTCACGGATGTGGCCCT  
 GTAAGCTTCTTTCTGTGCTGGATGTAGTCTACCTCGTGTACGAATCAAAGCACTTACATGAGGGGGCA  
 AAGTCAGAGACAGCTGAGGAGCTGAAGAAGGTGGCTCAGGAGCTGGAGGAGAAGCTAAACATTCTCAAC  
 AATAATTATAAGATTCTGCAGGCGGACCAAGAAGTGA**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI



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<b>ACCN:</b>	NM_001136541
<b>Insert Size:</b>	1143 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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001136541.1</a></u>
<b>RefSeq Size:</b>	2831 bp
<b>RefSeq ORF:</b>	1143 bp
<b>Locus ID:</b>	8542
<b>UniProt ID:</b>	<u><a href="#">O14791</a></u>
<b>Cytogenetics:</b>	22q12.3
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>MW:</b>	42.2 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) lacks an alternate in-frame 5' coding segment, compared to variant 1. The resulting protein (isoform c) has a shorter N-terminus when it is compared to isoform a. Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>