

Product datasheet for **SC109941**

Apolipoprotein L 1 (APOL1) (NM_003661) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apolipoprotein L 1 (APOL1) (NM_003661) Human Untagged Clone
Tag:	Tag Free
Symbol:	APOL1
Synonyms:	APO-L; APOL; APOL-I; FSGS4
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC109941 sequence for NM_003661 edited (data generated by NextGen Sequencing)

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ATGGAGGGAGCTGCTTTGCTGAGAGTCTCTGTCCTCTGCATCTGGATGAGTGCACATTTTC
CTTGGTGTGGGAGTGAGGGCAGAGGAAGCTGGAGCGAGGGTGCAACAAAACGTTCCAAGT
GGGACAGATACTGGAGATCCTCAAAGTAAGCCCCTCGGTGACTGGGCTGCTGGCACCATG
GACCCAGAGAGCAGTATCTTTATTGAGGATGCCATTAAGTATTTCAAGGAAAAAGTGAGC
ACACAGAATCTGCTACTCCTGCTGACTGATAATGAGGCCTGGAACGGATTCTGGCTGCT
GCTGAACTGCCAGGAATGAGGCAGATGAGCTCCGTAAAGCTCTGGACAACCTTGCAAGA
CAAATGATCATGAAAGACAAAACTGGCAGATAAAGGCCAGCAGTACAGAACTGGTTT
CTGAAAGAGTTTCTCGTTGAAAAGTGAGCTTGAGGATAACATAAGAAGGCTCCGTGCC
CTTGACAGATGGGGTTCAGAAGGTCCACAAAGGCCACCACCATCGCCAATGTGGTGTCTGGC
TCTCTCAGCATTTCTCTGGCATCCTGACCCTCGTCGGCATGGGTCTGGCACCTTCACA
GAGGGAGGCAGCCTTGTACTCTTGGAACTGGGATGGAGTTGGGAATCACAGCCGCTTTG
ACCGGGATTACCAGCAGTACCATGGACTACGAAAAGAAGTGGTGGACACAAGCCCAAGCC
CACGACCTGGTCATCAAAGCCTTGACAAATTGAAGGAGGTGAAGGAGTTTTTGGGTGAG
AACATATCCAACCTTTCTTCTTAGCTGGCAATACTTACCAACTCACACGAGGCATTGGG
AAGGACATCCGTGCCCTCAGACGAGCCAGAGCCAATCTTCAGTCAGTACCGCATGCCTCA
GCCTCACGCCCCCGGGTCACTGAGCCAATCTCAGCTGAAAGCGGTGAACAGGTGGAGAGA
GTTAATGAACCCAGCATCCTGGAATGAGCAGAGGAGTCAAGCTCACGGATGTGGCCCT
GTAAGCTTCTTTCTGTGCTGGATGTAGTCTACCTCGTGTACGAATCAAAGCACTTACAT
GAGGGGGCAAAGTCAGAGACAGCTGAGGAGCTGAAGAAGGTGGCTCAGGAGCTGGAGGAG
AAGCTAAACATTCTCAACAATAATTATAAGATTCTGCAGGCGGACCAAGAAGTGTGA

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Clone variation with respect to NM_003661.3
764 g=>a;960 g=>a



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003661 unedited</p> <pre>TACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTCAGAACAGCTGGATCTTGC TCAGTCTCTGCCAGGGGAAGATTCTTGGAGGAGGCCCTGCAGCGACATGGAGGGAGCTG CTTTGCTGAGAGTCTCTGTCTCTGCATCTGGATGAGTGCACCTTTTCTTGGTGTGGGAG TGAGGGCAGAGGAAGCTGGAGCGAGGGTGAACAAAACGTTCCAAGTGGGACAGATACTG GAGATCCTCAAAGTAAGCCCTCGGTGACTGGGCTGCTGGCACCATGGACCCAGAGAGCA GTATCTTTATTGAGGATGCCATTAAGTATTTCAAGGAAAAAGTGAGCACACAGAATCTGC TACTCCTGCTGACTGATAATGAGGCCTGGAACGGATTCTGGCTGCTGCTGAACTGCCCA GGAATGAGGCAGATGAGCTCCGTAAGCTCTGGACAACCTTGCAAGACAAATGATCATGA AAGACAAAACACTGGCACGATAAAGGCCAGCAGTACAGAACTGGTTTCTGAAAGATTTT CTCGGTTGAAAAGTAAGCTTGGAGATAACATAAGAAGGCTCCGTGCCCTTGACAGTGGG TTCAGAAGGTCCACAAAGGCACCACCATCGCCAATGTGGNTGTCTGGCTCTCTCAGCATT TCCTCTGGCATCCTGACCCTCGTCGGCATGGGTTTGGCACCTTCACAGAGGGAGGCAGC CTTGTACTCTTGGAACTGNGNNATGGAGTGGNAATCACAGCAGCTTTGACCGGGGATAC CAGCAGTACATAGACTACGNAANGAAGTGGTGGGACACAGCCCAAGCCCAGACTGGTCA TCANAAGCTTGACANNATGANGAGTGAANGGGAGTTTTGGGTGAGACATTATCACTTTCT TTNCTAGCTGGCATACTTACACTACACGAGCATGGGAGGGACTNCTGCCTAGACAGCAAG CATTTTATCATACGATGCTAGCTACCCCGGTC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003661 unedited</p> <pre>CTATGGCACGCGGCACGCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTTGGAGAGGAGTC TCGCTCTGTACCCAGGCTGGAGTGCAGTGGCGATATCTCGGCTCACTGCAAGCTCCACC TCCCAGGCTCACGCCATTCTCTGCCTCAGCCGCCAGTCAGCCGGAACACAGGCGCCC GCCACCATGCCCGCCAATTTTTGTATTTTTAGTAGAGACGGGTTTCCACCGTGTAGC CAGGATGGCTCGATCTCTGACCTCGTGATCCGCCCGCCTTGGCTCCCAAAGTCCCCG GACCACAGGCATGAGCCACTGCGCCCGACCCCAATATATTCTTTAGTCTAAAGCAAAC TGCTTCTTCCCATCCCCACACTCTGCAGTTCCATTTTTCCCTTATTGACAGGCTCAAAT GTTCTGCCTTATACTTGCTGCACTGCCATCTGCATTAACCCCTCCCCTGCTGTGCTCAC CTATGGAAATGCCAAAGCCCCTAACACTCAGTTCATAAACTTTACCTGACCCTCTTTAT CCCCCTAATAAAATGTTTGCATTTGGGCCAAAACCGATGGCTCACGCCTGTAATCCCCT ACTTTGGGAGGCCAAGGTGGGCATATCAACAGGCCAGGAGATCGACACCATCCTGGCGCA CACGGCCGAAACCCCATCTCTATTAATAAATCCCAAATACCTGGGCAGGCNGGCAACCG CCTGTTTACTCACTACTTGGGCAGGCCAAGGCAGGAGAATCCGTTGACATGGGAAGAC ACCCCTGTGGACCCAGATCGCCCACTGCACCTCCACTTTGCGAACAGACAAGACTTTG GCTCAAACAAAAAAAATAGTTTGCTTTTGGCCTGCGCCCCGCCAGCTTATCTTTCTGGG GGTGGACTGCCCGGAGCCACATCCGCCCCCTCTCAATATTTAACCCCCATAATCTC CCCTCCATT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_003661
Insert Size:	2140 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:

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_003661.2](#), [NP_003652.2](#)

RefSeq Size: 2856 bp

RefSeq ORF: 1197 bp

Locus ID: 8542

UniProt ID: [O14791](#)

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 (1) encodes the predominant protein (isoform a). Variants 1 and 3 encode the same protein (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.