

## Product datasheet for **SC110652**

### APOL3 (NM\_014349) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	APOL3 (NM_014349) Human Untagged Clone
Tag:	Tag Free
Symbol:	APOL3
Synonyms:	apoL-III; APOLIII; CG12_1; CG121
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110652 sequence for NM_014349 edited (data generated by NextGen Sequencing)

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ATGGACTCAGAAAAGAAACGCTTTACTGAAGAGGCCACCAATACTTCCGGGAGAGAGTC
AGCCCAGTGCATCTGCAAATCCTGCTGACTAACAATGAAGCCTGGAAGAGATTTCGTGACT
GCGGCTGAATTGCCAGGGATGAGGCAGATGCTCTCTACGAAGCTCTGAAGAAGCTTAGA
ACATATGCAGCTATTGAGGACGAATATGTGCAGCAGAAAGATGAGCAGTTTAGGGAATGG
TTTTTGAAAGAGTTTCCCAAGTCAAGAGGAAGATCCAGGAGTCCATAGAAAAGCTTCGT
GCCCTTGCAAATGGTATTGAAGAGGTCCACAGAGGCTGCACCATCTCCAATGTGGTGTC
AGCTCCACTGGCGCTGCCTCTGGCATCATGTCCCTTGCTGGTCTTGTGGTGGCACCATT
ACAGCAGGGACGAGTCTGGCCCTTACTGCAGCTGGGGTAGGGCTGGGAGCAGCGTCTGCT
GTGACTGGGATCACCACCAGCATCGTGGAGCACTCATAYACATCATCAGCAGAAGCTGAA
GCCAGCAGGCTGACTGCAACCAGCATTGACCGATTGAAGGTATTTAAGGAAGTTATGCGT
GACATCACACCCAACTTACTTTCCCTTCTAATAATTATTACGAAGCCACACAAACCATT
GGGAGTGAAATCCGTGCCATCAGGCAAGCCAGAGCCAGGGCCCGACTCCCTGTGACCACC
TGGCGAATCTCAGCTGGAAGTGGWGGTCAAGCAGAGAGAACGATTGCAGGCACCACCCGG
GCAGTGAGCAGAGGAGCCCGGATCCTGAGTGGCACCCTTCAAGGCATCTTCTTGCAGT
GATGTGGTCAACCTTGTATACGAGTCAAAGCACTTGCATGAGGGGGCAAAGTCTGCATCT
GCTGAGGAGCTGAGGCGGCAGGCTCAGGAGCTGGAGGAGAATCTAATGGAGCTCACTCAG
ATCTATCAGCGTCTGAATCCATGCCATACCCACTGA
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Clone variation with respect to NM\_014349.2  
519 c=>y;744 t=>w



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_014349 unedited            TAGATTTTGTATCCGACTTACTTATAGGGCGGCCGCAATTCGCACGAGGCCTGGCTCTA            CCCCTATTGTGAAAACATGGCAAGGTTGCTTAACATTTGAGGTTTCTTCTGTTTCAAAT            GGGAGCCACGGTTGCACCCATCTCTGGCCTGTGTGTGATCATCGAATGAGGCACATATG            AGGAGCCCTGCAGATCACAGACACCCAGTACACACTGGCTATTATCAATTAGTTATCACA            CATGTTGCCAGGCCAGGTCATTGTGAGAACGTTCCCTCCCATCTCTATTTCCGGTGATA            GACTCTGTAGTTTCTGTGATTATCAGATGTCCATCCCTTCTCTGATTATCTTCTCTTCA            TACCCCTACAGGACAAAAGGACCCTGCCTTGGTGTGAGAGTGAGGGCAGAGGGAGCTGGA            GCAAGTAGAATTTCTCTAAATACAGCTGGCTGGGGCCAGGAGATTAATAAACACCCGGG            CTAGGTTGGTCTTGGCATTGCTGACACGCAAAGGGATTGCAGAGATCCAGCCCTCCAA            CCTCCCTCTGTCCACAGGTGGCTCACATTCAGTCCACAATTTGCTTTCTCTCTCAAG            GGTAAAGAAAAAAAACGAACCTTCCAGTCAGGTCAGTGACTGGAGAGCTCCAAGGAAA            GTCTCTCAGTGACCTGGCTGCTGGCACCATGGACTCAGAAAAGAAACGCTNACTGAAGA            GGCCACCAATACTTNCGGGAGAGAGTCAGCCCAGTGCATCTGCAAACTCTGCTGACTAA            CAATGAAGCCTGGAAGAGATTCTGTGACTGCGGCTGAATTGCCAGGGATGAGGCAGATGC            TCTCTACGAAAGCTCTGAGAAGCTTAAACATATGCAGCTATTGAGGACGAATATGTGCAG            CAGAAAGATGAGCAGTTAGGGAATGGGTTTTGAAAGAGTTNCCCCAGTCAGAGGAGATCC            AGNAGTCCATAGAAAGCTTCGG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_014349 unedited            ATCTAGAATCGAGTTTTTTTTTTTTTTTTTCCAGCTTGGTGAGTAGGTGAGTTTATTAG            GACTTACACACAGGGCACTCAGCAGGATGGCTCTAGAGATCCGGCCTCCCCAGTCTCTA            AACTGCTTTTCAGTTAATTTTCTGTCTCTTTGCCTGCTGTATATGAGTAATGAGACTGTT            TTTCTTGGTAGGTTCTCGCATACTCTCCAGGATGTTTGGGTTTTAGAGACACCTGGTCC            TCAGCTGGGGACAATGGCCATGGCTCATTACCTGGCCTTCAGGGTTCAAGCAGGGGACAT            ATACCCCTAAATAACCTAAAGGGGATCCATCACACTACAACCACCTCCACCGCCATC            ATCAAGAAGCCACTGGCTGACTGAGATACACTTCCAGGAGGACAAGACAGAGTGGATGCT            GGAAAGACAGGGCAGGGGACCATCACCAGGAAAGACTTCATTCTTGAAGGACATCGAA            CCGGGGGCAGGTCGGTAGTGGAGCCGCTGTTTCTTCTGCTGTATCCAAAAGTTCTAACTC            TTCGGCTTTCTGCATTNTCAGCTCTTTCTTTTCTGNCCTTCTCATTGCTGGGTCCTGCA            CACTCCCCCTCTATTCCTCCCCCATATATTGTTAGTCTAAAGGAAATTTCTTCTTCTC            CTATTTCCACACTCTNACAGTCCCTCTCTTCCCTTATTTTCAGGCCTCAGCATTTCCTGC            TTCTCCTTGGTGCACCTGCCATCTGCATTACCCCTCCCTGCTGTGCTCAGCTACAGAA            ATGCCCAAGTCACTAACACTCAGCTCCATAACTTTACCTTGCCCTCCTTATCCCCCTAA            TAAATGCCTGCATTTTGTGGGCTGGGTATGCCTACCTCCCCTGCTGGCTGCACTGGCC            TGGGTCACGGGTTTGCATGGATCCAACCCTGAAAACCTGAGGAGCTCCTTAAATCTTCT            CAACTCTGACCTGCGCCTCAGTCTAAAAGCAAACCTTGCCCTTTGCG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014349
<b>Insert Size:</b>	2570 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\\_014349.2](#), [NP\\_055164.1](#)

**RefSeq Size:** 2444 bp

**RefSeq ORF:** 996 bp

**Locus ID:** 80833

**UniProt ID:** [O95236](#)

**Cytogenetics:** 22q12.3

**Gene Summary:** This gene is a member of the apolipoprotein L gene family, and it is present in a cluster with other family members on chromosome 22. The encoded protein is found in the cytoplasm, where it may affect the movement of lipids, including cholesterol, and/or allow the binding of lipids to organelles. In addition, expression of this gene is up-regulated by tumor necrosis factor-alpha in endothelial cells lining the normal and atherosclerotic iliac artery and aorta. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2015]  
Transcript Variant: This variant (alpha/a) differs in the coding region but maintains the reading frame compared to variant alpha/d. This variant encodes isoform 2, which is shorter and which contains a unique N-terminus compared to isoform 1.