

Product datasheet for SC110651

Apolipoprotein L 4 (APOL4) (NM_145660) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apolipoprotein L 4 (APOL4) (NM_145660) Human Untagged Clone
Tag:	Tag Free
Symbol:	Apolipoprotein L 4
Synonyms:	APOL-IV; APOLIV
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110651 sequence for NM_145660 edited (data generated by NextGen Sequencing)

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ATGGAGGGAGCTGCTTTGCTGAAAGTCTTTGCTCCTCTGCATCTGGGTGCAGCAAAACCAT
CCAGGCTGGACAGTGGCTGGACAGTTCCAAGAAAAGAAACGCTTCACTGAAGAAGTCATT
GAATACTTCCAGAAGAAAGTTAGCCAGTGCATCTGAAAATCCTGCTGACTAGCGATGAA
GCCTGGAAGAGATTTCGTGCGTGTGGCTGAATTGCCAGGGAAGAAGCAGATGCTCTCTAT
GAAGCTCTGAAGAATCTTACACCATATGTGGCTATTGAGGACAAAGACATGCAGCAAAAA
GAACAGCAGTTTAGGGAGTGGTTTTTGAAGAGTTTCTCAAATCAGATGGAAGATTCAG
GAGTCCATAGAAAGGCTTCGTGTCATTGCAAATGAGATTGAAAAGGTCCACAGAGGCTGC
GTCATCGCCAATGTGGTGTCTGGCTCCACTGGCATCCTGTCTGTCATTGGCGTTATGTTG
GCACCATTTACAGCAGGGCTGAGCCTGAGCATTACTGCAGCTGGGGTAGGGCTGGGAATA
GCATCTGCCACGGCTGGGATCGCCTCCAGCATCGTGGAGAACACATACACAAGGTGAGCA
GAACTCACAGCCAGCAGGCTGACTGCAACCAGCACTGACCAATTGGAGGCATTAAGGGAC
ATTCTGCATGACATCACACCCAATGTGCTTTTCTTTGCACTTGATTTTGACGAAGCCACA
AAAATGATTGCGAATGATGTCCATACACTCAGGAGATCTAAAGCCACTGTTGGACGCCCT
TTGATTGCTTGGCGATATGTACCTATAAATGTTGTTGAGACACTGAGAACACGTGGGGCC
CCCACCCGGATAGTGAGAAAAGTAGCCCGAACCTGGGCAAGGCCACTTCAGGTGCCTT
GTTGTGCTGGATGTAGTCAACCTTGTGCAAGACTCACTGGACTTGACAAGGGGGCAAAA
TCCGAGTCTGCTGAGTCGCTGAGGCAGTGGGCTCAGGAGCTGGAGGAGAATCTCAATGAG
CTCACCCATATCCATCAGAGTCTAAAAGCAGGCTAG

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Clone variation with respect to NM_145660.1
25 a=>g;34 g=>c;195 t=>c;225 g=>a;668 g=>a;693 t=>c



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_145660 unedited</p> <pre>TCAGATTTTGTAAATACGACTTCACTATAGGGCGGCCGCGATTCCGGCACGAGGGCGAGATC CCACAGCTCAGACCAGCTGGATCTTGCTCAGTCTCTGTGACAGGAAGATCCCTTGAGGA GGCCCCGAGCGACATGGAGGGAGCTGCTTTGCTGAAAGTCTTTGTCCTCTGCATCTGGG TGCAGCAAAACCATCCAGGCTGGACAGTGGCTGGACAGTTCCAAGAAAAGAAACGCTTCA CTGAAGAAGTCATTGAATACTTCCAGAAGAAAGTTAGCCCAGTGCATCTGAAAATCCTGC TGACTAGCGATGAAGCCTGGAAGAGATTGCTGCGTGTGGCTGAATTGCCAGGGAAGAAG CAGATGCTCTCTATGAAGCTCTGAAGAATCTTACACCATATGTGGCTATTGAGGACAAAG ACATGCAGCAAAAAGAACAGCAGTTTAGGGAGTGGTTTTTGAAAGAGTTTCCTCAAATCA GATGGAAGATTCAGGAGTCCATAGAAAAGCTTCGTGTCATTGCAAATGAGATTGAAAAGG TCCACAGAGGCTGCGTCACTGCCAATGTGGTGTCTGGCTCCACTGGCATCCTGTCTGTCA TTGGCGTTATGTTGGCACCATTTACAGCAGGGCTGAGCCTGAGCATTACTGCAGCTGGGG TAGGGCTGGGAATAGCATCTGCCACGGCTGGNGATCGCCTNCAGCATCGTGGAGAACACA TACACAAGGTCAGCAGAACTCACAGCCAGCAGGCTGACTGCAACCAGCACTGACCAATTG GANGCATTAAAGGGACATTCTGCATGACATCACACCCAAATGTGCTNNTCTTTGCACTTNG ATTTGACGAAGCCACANAATGATTGCGAATGATGTCCATACACTCANGAGATCTAAAGCC ACTGNTGGACGCCNNTTGTGCTGNCATATGTACCTATAATGTTNGTGAGACACTGAGA CCGTGGGGNCCCCACCCGGTAGTGN</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_145660 unedited</p> <pre>NGTAGGTTTACTATGNACCGCGCCGATTCTANGATCGGTTTTTTTTTTTTTTTTTTTGGAA ATTTTAAAGCTAGGTGTCCAGGGNATACATCACACATCAGTAGGTTCCGTGATGCCTCA CAAGCTGCAAAACCAGCAAGTTTTTATTAGGGACTTTCAAAGGGGAGGGAGTGTATGAA TAGGGTGTGGGTACAAAGATCACCTACTTACAAGGTAATAGAATATCAAGGCAAGT GGAGGCAGGGTGAGATCACAGGACCACAGGACCGGGGAGAAATAAAATTGCTAATGAGG TTTCAGGCACCATTGTCATTGATAACATCTTATCAGGAGACAGGGTTTTGAGAGCAACCG GTCTGACCAAAATTTATTAGCGGGAAATTTCTTCTTCTAATAAGCCTGGGAGCACTATG GGAGACTGGGGTTTATTTATCCCTACAGTCTCGACCATAGAAGTGGCCACACCCAAGG AGGCCATTTATAGACCCACCTCAGGGGTGCATTCTCTTTCTCAGGGATGTTCTTGCTG AGAAAAAGAATTCAGCGATATTTCTCCATTTGCTTTTGAAGAAGAGAAATATGACTCT GTTCCACCCGGCTCACTGTTGGTCAGAGTTTAAAGTTATCTCTTATTCCCTGAACAAT TGCTGTTATCCTGTTCTTTTTTCAAGGTGCCAGATTTTCAATTGTTCAAACACACATGC TCTACAATTTGTGCAGTTAACGCAATTATCACATGGTCTGAGTGACATACATCCTCCT CAGCTGACAGGATTAGGAGATTAAGTAAAGACAGGCCTAAGAAATCACAAAGGATTGAT TGGGGAAGTGATAAGTGTCCATGAA</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_145660
Insert Size:	2200 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_145660.1](#), [NP_663693.1](#)

RefSeq Size: 3228 bp

RefSeq ORF: 1056 bp

Locus ID: 80832

UniProt ID: [Q9BPW4](#)

Cytogenetics: 22q12.3

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of the apolipoprotein L family. The encoded protein 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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2020]

Transcript Variant: This variant (b) lacks an internal exon in the 5' region, which results in upstream AUG start codon, compared to variant a. The resulting isoform (2) has a longer and distinct N-terminus, compared to isoform 1. Isoform 2 is thought to be a secreted protein.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.