

Product datasheet for SC119123

Apolipoprotein A II (APOA2) (NM_001643) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apolipoprotein A II (APOA2) (NM_001643) Human Untagged Clone
Tag:	Tag Free
Symbol:	Apolipoprotein A II
Synonyms:	Apo-AII; ApoA-II; apoAII
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119123 sequence for NM_001643 edited (data generated by NextGen Sequencing)

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ATGAAGCTGCTCGCAGCAACTGTGCTACTCCTCACCATCTGCAGCCTTGAAGGAGCTTTG
GTTTCGGAGACAGGCAAAGGAGCCATGTGTGGAGAGCCTGGTTTCTCAGTACTTCCAGACC
GTGACTGACTATGGCAAGGACCTGATGGAGAAGGTCAAGAGCCCAGAGCTTCAGGCCGAG
GCCAAGTCTTACTTTGAAAAGTCAAAGGAGCAGCTGACACCCCTGATCAAGAAGGCTGGA
ACGGAAGTGGTTAACTTCTTGAGCTATTCGTGGAAGTGGAAACACAGCCTGCCACCCAG
TGA
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Clone variation with respect to NM_001643.1

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001643 unedited GCACCAGAGGACAGAGACGCTGGCTAGGCCGCCCTCCCACTGTTACCAACATGAAGCTG CTCGCAGCAACTGTGCTACTCCTCACCATCTGCAGCCTTGAAGGAGCTTTGGTTCGGAGA CAGGCAAAGGAGCCATGTGTGGAGAGCCTGGTTTCTCAGTACTTCCAGACCGTGACTGAC TATGGCAAGGACCTGATGGAGAAGGTCAAGAGCCCAGAGCTTCAGGCCGAGGCCAAGTCT TACTTTGAAAAGTCAAAGGAGCAGCTGACACCCCTGATCAAGAAGGCTGGAACGGAAGTCT GTTAACTTCTTGAGCTATTCGTGGAAGTGGAAACACAGCCTGCCACCCAGTGAAGTGTCT CAGACCATTGTCTTCCAACCCAGCTGGCCTCTAGAACACCCACTGGCCAGTCTAGAGC TCCTGTCCCTACCACTCTTTGCTACAATAAATGCTGAATGAATCCAANNNNNAAAAAA AAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGCGGTATAGCTGTTTCTGAAACAG ATCCCGGGTGGCATCCCTGTGACCCCTCCCAAGTGCCTCTCTGGCCCTGGAAGTTGCCA CTCCAGTGCCACCAGCCTTGTCTTAATAAAATTAAGTTGCATCATTTTGTCTGACTAGG T
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001643 unedited NNTTTCTTACTTGCCCGCGGCCGATTCTANATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGATTCAATTCAGCATTATTTGGAGCAAAGAGTGGGTAGGGACAGGAGCTCTAGGACTGGCCAGTGGGTGTTCTAAAGGCCAGCTGGGGTTGGAAAACAATGGTCTGGACACTTCTGGTGGCAGGCTGTGTTCCAAGTCCACGAAATAGCTCAAGAAGTTAACCAGTTCCGTTCCAGCCTTCTTGATCAGGGGTGTCAGCTGCTCCTTTGACTTTTTCAAAGTAAAAGTTGGCCTCGGCCCTGAAGCTCTGGGCTTTGACCTTTTCCATCAGGTCCTTGCCATAATCAGTCA CGGTCTGGAAGTACTGAGAAACCAGGCTCTCCACACATGGCTCCTTTGCCTGTCTCCGAA CCAAAGCTCCTTCAAGGCTGCAGATGGTGAGGAGTAACACAGTTGCTGCGAGCAGCTTCA GTTTGGTAAACAGTGGGAGGGCGGCCTAACAGCGTCTCTGTCTCTGGTGCCGAATTGCG CGGCCGCCTATAGTGAGTCGTATTACAAAATTCTGACGGTTCACTAACAGAGCTCTGCT TATATAGACCTCCACCGTACACGCCTACCGCCATTTGCGTCAACGGGGCGGGTTATT ACGACATTTGGAAAGTCCCGTTGATTTTGGTGCCAAAACAACCTCCATTGACGTCAT GGGGGTGGAGACTTGGAAATCCCGTGAGTCAAACCGCTATTACCCCATTGGTGTACTG GCAAACCGCATACCCATGGTATAACGATGACTAATACCGTAAATGTACTGCCAGTAN GAAAGTCCCGCTAAGCCATGTACCTGGCATATGCCAGCGGGCCATTTACCGATTGACG TAATAGGGGGCGGATTGG
Restriction Sites:	NotI-NotI
ACCN:	NM_001643
Insert Size:	550 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:	<ol style="list-style-type: none">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:	<u>NM_001643.1</u> , <u>NP_001634.1</u>
RefSeq Size:	473 bp
RefSeq ORF:	303 bp
Locus ID:	336
UniProt ID:	<u>P02652</u>
Cytogenetics:	1q23.3
Domains:	ApoA-II, Radial_spoke
Protein Families:	Druggable Genome, Secreted Protein

Protein Pathways: PPAR signaling pathway

Gene Summary: This gene encodes apolipoprotein (apo-) A-II, which is the second most abundant protein of the high density lipoprotein particles. The protein is found in plasma as a monomer, homodimer, or heterodimer with apolipoprotein D. Defects in this gene may result in apolipoprotein A-II deficiency or hypercholesterolemia. [provided by RefSeq, Jul 2008]