

Product datasheet for **SC127272**

Apolipoprotein D (APOD) (NM_001647) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apolipoprotein D (APOD) (NM_001647) Human Untagged Clone
Tag:	Tag Free
Symbol:	Apolipoprotein D
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127272 sequence for NM_001647 edited (data generated by NextGen Sequencing)

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ATGGTGATGCTGCTGCTGCTGCTTTCCGCACTGGCTGGCCTCTTCGGTGCGGCAGAGGGA  
CAAGCATTTTCATCTTGGGAAGTGCCCAATCCTCCGGTGCAAGGAGAATTTTGACGTGAAT  
AAGTATCTCGGAAGATGGTACGAAATTGAGAAGATCCCAACAACCTTTGAGAATGGACGC  
TGCATCCAGGCCAACTACTCACTAATGGAAAACGGAAAGATCAAAGTGTTAAACCAGGAG  
TTGAGAGCTGATGGAAGTGAATCAAATCGAAGGTGAAGCCACCCAGTTAACCTCACA  
GAGCCTGCCAAGCTGGAAGTTAAGTTTTCTGGTTTATGCCATCGGCACCGTACTGGATC  
CTGGCCACCGACTATGAGAACTATGCCCTCGTGTATTCTGTACCTGCATCATCCAACCT  
TTTCACGTGGATTTTGCCTGGATCTTGGCAAGAAACCCTAATCTCCCTCCAGAAACAGTG  
GACTCTTAAAAAATATCCTGACTTCTAATAACATTGATGTCAAGAAAATGACGGTCACA  
GACCAGGTGAAGTCCCAAGCTCTCGTAA
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Clone variation with respect to NM_001647.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001647 unedited TACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCAAGACAGGCATCTCAAATC GGCTGATTCTGCATCTGGAACTGCCTTCATCTTGAAAGAAAAGCTCCAGGTCCCTTCTC CAGCCACCCAGCCCCAAGATGGTGATGCTGCTGCTGCTGCTTTCCGCACTGGCTGGCCTC TTCGGTGCGGCAGAGGGACAAGCATTTTCATCTTGGAAGTGCCCCAATCTCCGGTGCAG GAGAATTTTGACGTGAATAAGTATCTCGGAAGATGGTACGAAATTGAGAAGATCCCAACA ACCTTTGAGAATGGACGCTGCATCCAGGCCAACTACTACTAATGGAAAACGAAAAGATC AAAGTGTTAAACCAGGAGTTGAGAGCTGATGGAAGTGTGAATCAAATCGAAGGTGAAGCC ACCCAGTTAACCTCACAGAGCCTGCCAAGCTGGAAGTTAAGTTTTCTGGTTTATGCCA TCGGCACCGTACTGGATCCTGGCCACCGACTATGAGAACTATGCCCTCGTGTATTCTGT ACCTGCATCATCCAACCTTTTTCACGTGGATTTTCTGGATCTTGGCAAGAAACCCTAAT CTCCCTCCAGAAACAGTGGACTCTAAAAAATATCTGACTTCTAATAACATTGATGTC AAGAAAATGACGGTCACAGACCAGGTGAACTGCCCAAGCTCTCGTAACCCAGNTTCTACA GGGAGGCTGCACCCACTCCATGTTACTTCTGTTTGGCTTTCCCTACCCACCCCCCCCC ATANAGACAAACCAATCAACCCGACAAAGGAAGTTGACCTAAACATGTACCCCATGCCTA CCCTGNTACCTTGCTAGCTGCAAATAAACTGNTGCTGACCTGCTGTGCTCGCAAAAAA AAAAAAAAAAAAAAAAAACTCGCTCTAGATGCGGCCGCGTCATAGCTGTTCTGAAAG AACC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001647
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
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:	NM_001647.2 , NP_001638.1
RefSeq Size:	1061 bp

RefSeq ORF: 570 bp

Locus ID: 347

UniProt ID: [P05090](#)

Cytogenetics: 3q29

Domains: lipocalin

Protein Families: Secreted Protein

Gene Summary: This gene encodes a component of high density lipoprotein that has no marked similarity to other apolipoprotein sequences. It has a high degree of homology to plasma retinol-binding protein and other members of the alpha 2 microglobulin protein superfamily of carrier proteins, also known as lipocalins. This glycoprotein is closely associated with the enzyme lecithin:cholesterol acyltransferase - an enzyme involved in lipoprotein metabolism. [provided by RefSeq, Aug 2008]