

Product datasheet for SC113997

Apolipoprotein H (APOH) (NM_000042) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apolipoprotein H (APOH) (NM_000042) Human Untagged Clone
Tag:	Tag Free
Symbol:	Apolipoprotein H
Synonyms:	B2G1; B2GP1; BG
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113997 sequence for NM_000042 edited (data generated by NextGen Sequencing)

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ATGATTTCTCCAGTGCTCATCTTGTCTCGAGTTTTCTCTGCCATGTTGCTATTGCAGGA
CGGACCTGTCCCAAGCCAGATGATTTACCATTTCCACAGTGGTCCCGTTAAAAACATTC
TATGAGCCAGGAGAAGAGATTACGTATTCTGCAAGCCGGCTATGTGTCCCGAGGAGGG
ATGAGAAAGTTTATCTGCCCTCTCACAGGACTGTGGCCCATCAACACTCTGAAATGTACA
CCCAGAGTATGTCCTTTTGTGGAATCTTAGAAAATGGAGCCGACGCTATACGACTTTT
GAATATCCCAACACGATCAGTTTTTCTTGAACACTGGGTTTTATCTGAATGGCGCTGAT
TCTGCCAAGTGCCTGAGGAAGGAAAATGGAGCCCGAGCTTCTGTCTGTGCTCCCATC
ATCTGCCCTCCACCATCCATACCTACGTTTGAACACTTCGTGTTTATAAGCCATCAGCT
GGAACAATTCCCTCTATCGGGACACAGCAGTTTTTGAATGTTTGCACAACATGCGATG
TTTGAAATGATACAATTACCTGCACGACACATGGAAATGGACTAAATTACCAGAATGC
AGGGAAGTAAAATGCCCATTTCCCATCAAGACCAGACAATGGATTTGTGAACTATCCTGCA
AAACCAACTTTTATTACAAGGATAAAGCCACATTTGGCTGCCATGATGGATATTCTCTG
GATGGCCCGGAAGAAATAGAATGTACCAAACTGGGAACTGGTCTGCCATGCCAAGTTGT
AAAGCATCTTGTAAATTACCTGTGAAAAAGCCACTGTGGTGTACCAAGGAGAGAGAGTA
AAGATTCAGGAAAAATTAAGAATGGAATGCTACATGGTGATAAAGTTTCTTTCTCTGC
AAAAATAAGGAAAAGAAGTGTAGCTATACAGAGGATGCTCAGTGTATAGATGGCACTATC
GAAGTCCCAAAATGCTTCAAGGAACACAGTTCTCTGGCTTTTGGAAAACATGATGCATCC
GATGTAAGCCATGCTAA

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Clone variation with respect to NM_000042.2
796 g=>t



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000042 unedited CATTTATGTATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGCTCATCCACAAT GATTTCTCCAGTGCTCATCTTGTCTCGAGTTTTCTCTGCCATGTTGCTATTGCAGGACG GACCTGTCCCAAGCCAGATGATTACCATTTCCACAGTGGTCCCGTTAAAAACATTCTA TGAGCCAGGAGAAGAGATTACGTATTCTGCAAGCCGGCTATGTGTCCCGAGGAGGGAT GAGAAAGTTTATCTGCCCTCTCACAGGACTGTGGCCCATCAACACTCTGAAATGTACACC CAGAGTATGTCCTTTTGGCTGGAATCTTAGAAAAATGGAGCCGTACGCTATACGACTTTTGA ATATCCCAACACGATCAGTTTTTCTTGTAACTGGGTTTTATCTGAATGGCGCTGATTC TGCCAAGTGCACTGAGGAAGGAAAAATGGAGCCCGAGCTTCTGTCTGTGCTCCCATCAT CTGCCCTCCACCATCCATACCTACGTTTGAACACTTCGTGTTTATAAGCCATCAGCTGG AAACAATTCCTCTATCGGGACACAGCAGTTTTTGAATGTTTGCCACAACATGCGATGTT TGGAAATGATACAATTACCTGCACGACACATGGAAATGGACTAAATTACCAGAATGCAG GGAAGTAAATGCCCATCCCATCAAGACCAGACAATGGATTTGTGAATATCCTGCANA ACCAACTTTTATTACAAGGATAAAGCCACATTTGGCTGCCATGATGGATATTCTCTGGA TGGCCCGNNAGAATAGAATGTACCAAACTGGGAACTGGTCTGCCATGCCAAGTNTGTA AGCATCTTTGTAATTACCTGTGAAAAAGCCACTGTGGTGTACCAAGNAGAGAGAGTAAG ATTCAGGAAAATTTNAGATGGNATGCTACATGTNGATAAGTTNCTTTCTCTGCAATAN GGNAAAGNAGTGTAGCTTACAGAGCTGC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000042 unedited NTTTTACTCTGNACCCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGGCG CAATAAATTCAGTAGCTTTATTTTTAAATTTCAATTAGGTTTCTTGATGAACAAGAAAC AAGTGTGACATTTTATGTGGAATCTGAAAACACCTTAGCATGGCTTTACATCGGATGCA TCAGTTTTCCAAAAGCCAGAGAACTGTGTTTCTTGAAGCATTGGGGACTTCGATAGTG CCATCTATACACTGAGCATCCTCTGTATAGCTACACTTCTTTTCTTATTTTTGCAGAAG AAAGAACTTTATCACCATGTAGCATTCCATTCTTAAATTTTTCTGAATCTTTACTCTC TCTCCTTGGTACACCACAGTGGCTTTTTTACAGGTAATTTACAAGATGCTTTACAACCT GGCATGGCAGACCAGTTTCCAGTTTGGTACATTTCTTCTTCCGGGCCATCCAGAGAA TATCCATCATGGCAGCCAAATGTGGCTTATCCTTGTAAATAAAGTGTGGTTTTGCAGGA TAGTTCACAAATCCATTGTCTGGTCTTGATGGGAATGGGCATTTTACTTCCCTGCATTCT GGTAATTTAGTCCAATTTCCATGTGTCGTGCAGTAATTTGTATCATTTCCAAACATCGCA TGTTGTGGCAAACTTCAAAAACCTGCTGTGTCGATAGAGGGAATTTTCCAGCTGAT GGCTTATAAACACGAAGTGTGCAACGTANGTATGGATGGTGGAGGGCANATGATGGGA GCACAGACAGGAAAGCTCCGGCTNCATTTTCTTTCTCAGTGCACCTGGCAGAATCAGCG CCATTCAGATAAACCCAGTGTACAAGAAAACCTGATCGTGTGGGNAATCAAAAGTCGTA TAGCGTACGGCTCCATTTTCTAAGATCCAGCAAAGGACTACTCTC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000042
Insert Size:	1170 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_000042.1](#), [NP_000033.1](#)

RefSeq Size: 1182 bp

RefSeq ORF: 1038 bp

Locus ID: 350

UniProt ID: [P02749](#)

Cytogenetics: 17q24.2

Domains: CCP

Protein Families: Druggable Genome, Secreted Protein

Gene Summary: Apolipoprotein H, also known as beta-2-glycoprotein I, is a component of circulating plasma lipoproteins. It has been implicated in a variety of physiologic pathways including lipoprotein metabolism, coagulation, hemostasis, and the production of antiphospholipid autoantibodies. APOH may be a required cofactor for anionic phospholipid binding by the antiphospholipid autoantibodies found in sera of many patients with lupus and primary antiphospholipid syndrome (APS). The anti-beta (2) glycoprotein I antibodies from APS patients, mediate inhibition of activated protein C which has anticoagulant properties. Because beta-2-GPI is the main autoantigen in patients with APS, the disruption of this pathway by autoantibodies may be an important mechanism for thrombosis in patients with APS.[provided by RefSeq, Dec 2019]