

Product datasheet for SC112255

Apolipoprotein O (APOO) (NM_024122) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apolipoprotein O (APOO) (NM_024122) Human Untagged Clone
Tag:	Tag Free
Symbol:	Apolipoprotein O
Synonyms:	FAM121B; Mic23; MIC26; MICOS26; My025
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112255 sequence for NM_024122 edited (data generated by NextGen Sequencing)

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ATGTTCAAGGTAATTCAGAGGTCCTGGGGCCAGCCAGCCTGAGCTTGCTCACCTTCAAA
GTCTATGCAGCACCAAAAAGGACTCACCTCCCAAAAATTCCTGAAGGTTGATGAGCTT
TCACTCTACTCAGTTCCTGAGGGTCAATCGAAGTATGTGGAGGAGGCAAGGAGCCAGCTT
GAAGAAAGCATCTCACAGCTCCGACACTATTGCGAGCCATACACAACCTGGTGTGAGGAA
ACGTACTCCCAAACTAAGCCCAAGATGCAAAGTTTGGTTCAATGGGGGTTAGACAGCTAT
GACTATCTCCAAAATGCACCTCCTGGATTTTTTCCGAGACTTGGTGTATTGGTTTTGCT
GGCCTTATTGGACTCCTTTTGGCTAGAGGTTCAAAAATAAAGAAGCTAGTGTATCCGCT
GGTTTCATGGGATTAGCTGCCTCCCTCTATTATCCACAACAAGCCATCGTGTGTTGCCAG
GTCAGTGGGGAGAGATTATGACTGGGGTTTACGAGGATATATAGTCATAGAAGATTTG
TGAAGGAGAAGTTTCAAAGCCAGGAAATGTGAAGAATTCACCTGGAAGTAAGTAG

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Clone variation with respect to NM_024122.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024122 unedited
 CGTCAGATTTGTATACGACTCATATAGGCCGGCCGCAAATTCGCACGAGGGCTGATTGAA
 CTA AACCTTCGCCGCACCCGAGTTTGAGTACGGCCGTACCCCGCACCCGCTGCCTGCTTGC
 GGTGGAGAAATCAAGGCCCTACCGGCCCTCCGTAGTCACCTCTCTATAGTGGCGTGCC
 CGAGGCCGGGGTGACCTGCCGGAGCCTCCGCTGCCAGCGACATGTTCAAGGTAATTCAG
 AGGTCCGTGGGGCCAGCCAGCCTGAGCTTGCTCACCTTCAAAGTCTATGCAGCACAAAA
 AAGGACTCACCTCCAAAAAATTCGTGAAGTTGATGAGCTTTCACTCTACTCAGTTCCCT
 GAGGGTCAATCGAAGTATGTGGAGGCAAGGAGCCAGCTTGAAGAAAGCATCTCACAG
 CTCCGACACTATTGCGAGCCATACACAACCTGGTGTGAGAAACGTA CTCCAAAACTAAG
 CCAAAGATGCAAAGTTTGGTTCAATGGGGTTAGACAGCTATGACTATCTCCAAAAATGCA
 CCTCCTGGATTTTTCCGAGACTTGGTGTATTGGTTTTGCTGGCCTATTGGACTCCTT
 TTGGCTAGAGGTTCAAAAATAAAGAAGCTAGTGTATCCGCCTGGTTTCATGGATTAGCT
 GCCTCCCTCTATTATCCACAACAAGCCATCGTGTGGCCAGGTCAGTGGGGAGAGATTA
 TATGACTGGGGTTTACGAGGATATATAGTCATAGAAGATTTGTCAGGAGAACTTTCAA
 AGTCAGNACATGTGAAGAATTCACCTGGACTAAGTAGAACTCCATGCTCTGCCATCTTA
 ATCAGGAAAAACTAGACCAGACCTCTGTTATCTTCTGTGAAATCATCCTACAAGCAACTA
 AN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024122 unedited
 TGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAACTGGGTTTTAAT
 TAGGTACATAAATAGCAACATGAGAATGAGGAGTTCTAAGGCTTGACATTATCTCTAGG
 TGAAGGGATTCCAGGTTAGTTTGCTTGTAGGATGATTTACAGAAGATAACAGAGGCTG
 GTCTAGTTTTTCTGATTAAGATGGCAGAGCATGGAGTTTTCTACTTAGTCCAGGTGAA
 TTCTTCACATTTCTGGCTTTTGAAGTTCTCCTTCCACAAATCTCTATGACTATATAT
 CCTCGTAAACCCAGTCATATAATCTCTCCCACTGACCTGGGCAACACGATGGCTTGT
 TGTGGATAATAGAGGGAGGCAGCTAATCCCATGAAACCAGGCGGATACACTAGCTTCTTT
 ATTTTTGAACCTCTAGCCAAAAGGAGTCCAATAAGGCCAGCAAAACCAATAACACCAAGT
 CTCGGAAAAAATCCAGGAGGTGCATTTTGGAGATAGTCATAGCTGTCTAACCCCATTTGA
 ACCAACTTTGCATCTTGGGCTTAGTTTGGGAGTACGTTTCTGACACCAGGTTGTGTAT
 GGCTCGCAATAGTGTGGAGCTGTGAGATGCTTTCTTCAAGCTGGCTCCTTGCCCTCCTC
 ACATACTCGATTGACCCTCAGGAAGTGTAGAGTGAAGCTCATCAACCTTCACGGAA
 TTTTTGGGAGGTGAGTCTTTTTTGGTGTGCATAGACTTTGAAGGTGAGCAAGCTCANG
 CTGGCTGGCCCCACGNACCTCTGAATACCTTTGACATGTCNCTGGCAGCGGNAGGCTCC
 GCAGGGTACCCCGGNCTCGNACGCCACTTAAGAGGTGATACNGAGGCCGTTAAGCCC
 TTGATTTCTCCACCGCAGCAGCN

Restriction Sites:

NotI-NotI

ACCN:

NM_024122

Insert Size:

1020 bp

OTI Disclaimer: 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.

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](#)

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_024122.2](#), [NP_077027.1](#)

RefSeq Size: 1124 bp

RefSeq ORF: 597 bp

Locus ID: 79135

UniProt ID: [Q9BUR5](#)

Cytogenetics: Xp22.11

Protein Families: Secreted Protein, Transmembrane

Gene Summary: This gene is a member of the apolipoprotein family. Members of this protein family are involved in the transport and metabolism of lipids. The encoded protein associates with HDL, LDL and VLDL lipoproteins and is characterized by chondroitin-sulfate glycosylation. This protein may be involved in preventing lipid accumulation in the myocardium in obese and diabetic patients. Alternative splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 3, 4, 5, 12 and 16.[provided by RefSeq, Sep 2009]
Transcript Variant: This variant (1) represents the longer transcript and is predicted to encode the functional protein.