

Product datasheet for RC226644

Apolipoprotein L 1 (APOL1) (NM_001136541) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apolipoprotein L 1 (APOL1) (NM_001136541) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Apolipoprotein L 1
Synonyms:	APO-L; APOL; APOL-I; FSGS4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC226644 representing NM_001136541 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGGAGCTGCTTTGCTGAGAGTCTCTGTCCTCTGCATCTGGGTGCAACAAAACGTTCCAAGTGGGA
CAGATACTGGAGATCCTCAAAGTAAGCCCTCGGTGACTGGGCTGCTGGCACCATGGACCCAGAGAGCAG
TATCTTTATTGAGGATGCCATTAAGTATTTCAAGGAAAAAGTGAACACACAGAATCTGCTACTCCTGCTG
ACTGATAATGAGGCTGGAACGGATTCTGGCTGCTGCTGAAGTCCAGGAATGAGGCAGATGAGCTCC
GTAAAGCTCTGGACAACCTTGAAGACAATGATCATGAAAGACAAAACTGGCAGGATAAAGGCCAGCA
GTACAGAAACTGGTTTCTGAAAGAGTTTCTCGGTTGAAAAGTGAGCTTGAGGATAACATAAGAAGGCTC
CGTGCCCTTGAGATGGGGTTCAGAAGGTCACAAAGGCCACCACCATCGCCAATGTGGTGTCTGGCTCTC
TCAGCATTTCTCTGGCATCCTGACCCTCGTCGGCATGGGTCTGGCACCTTCACAGAGGGAGGCAGCCT
TGTAATCTTGGAACTGGGATGGAGTTGGGAATCACAGCCGCTTTGACCGGGATTACCAGCAGTACCATG
GACTACGGAAAGAAGTGGTGGACACAAGCCCAAGCCACGACCTGGTTCATCAAAGCCTTGACAAATTGA
AGGAGGTGAGGGAGTTTTGGGTGAGAATATCCAATTTCTTTCTTACGTGGCAATACTTACCAACT
CACACGAGGCATTGGGAAGGACATCCGTGCCCTCAGACGAGCCAGAGCCAATCTTCAGTCAGTACCGCAT
GCCTCAGCCTCAGCCCCGGTCACTGAGCCAATCTCAGTGAAGCGGTGAACAGGTGGAGAGGGTTA
ATGAACCCAGCATCTGAAATGAGCAGAGGAGTCAAGCTCACGGATGTGGCCCTGTAAGCTTCTTTCT
TGTGCTGGATGTAGTCTACCTCGTGTACGAATCAAAGCACTTACATGAGGGGGCAAAGTCAGAGACAGCT
GAGGAGCTGAAGAAGGTGGCTCAGGAGCTGGAGGAGAAGCTAACATTCTCAACAATAATTATAAGATTC
TGCAGGCGGACCAAGAAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC226644 representing NM_001136541
Red=Cloning site Green=Tags(s)

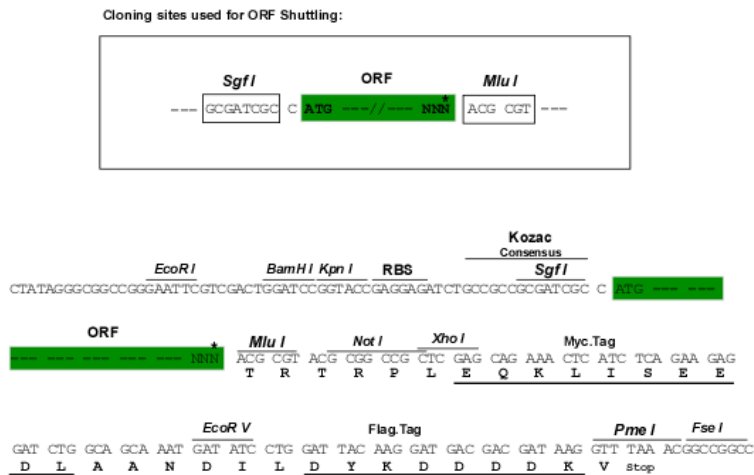
MEGAALLRVSVLCI WVQNVPSGTDGDPQSKPLGDWAAGTMDPESSIFIEDAIKYFKEKVSTQNLLLLL
 TDNEAWNGFVAAAELPRNEADELRKALDNLARQMIMKDNWHDKGQYRNWFLKEFPRLKSELDNIRRL
 RALADGVQKVHKGTIIANVVSGSLSISSGILTLVGMGLAPFTEGGSLVLEPGMELGITAALTGITSSM
 DYGKKWWTQAQADLVIKSLDKLKEVREFLGENISNFLSLAGNTYQLTRGIGKDIRALRRARANLQSVPH
 ASASRPRVTEPISAESGEQVERVNEPSILEMSRGVKLTDVAPVSFFLVLDVVYLVYESKHLHEGAKSETA
 EELKKVAQEELKLNILNNNYKILQADQEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8056_a10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001136541

ORF Size: 1140 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001136541.1](#), [NP_001130013.1](#)

RefSeq ORF: 1143 bp

Locus ID: 8542

UniProt ID: [O14791](#)

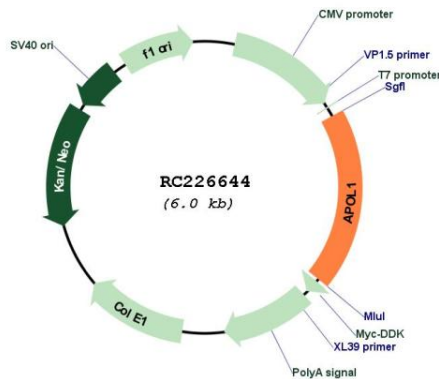
Cytogenetics: 22q12.3

Protein Families: Secreted Protein, Transmembrane

MW: 42 kDa

Gene Summary: This gene encodes a secreted high density lipoprotein which binds to apolipoprotein A-I. Apolipoprotein A-I is a relatively abundant plasma protein and is the major apoprotein of HDL. It is involved in the formation of most cholesteryl esters in plasma and also promotes efflux of cholesterol from cells. This apolipoprotein L family member 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. Several different transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2008]

Product images:



Circular map for RC226644