

Product datasheet for **RG226644**

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: | TurboGFP |
| Symbol: | Apolipoprotein L 1 |
| Synonyms: | APO-L; APOL; APOL-I; FSGS4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG226644 representing NM_001136541 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGGAGCTGCTTTGCTGAGAGTCTCTGTCCTCTGCATCTGGGTGCAACAAAACGTTCCAAGTGGGA
CAGATACTGGAGATCCTCAAAGTAAGCCCTCGGTGACTGGGCTGCTGGCACCATGGACCCAGAGAGCAG
TATCTTTATTGAGGATGCCATTAAGTATTTCAAGGAAAAAGTGAGCACACAGAATCTGCTACTCCTGCTG
ACTGATAATGAGGCTGGAACGGATTCTGGCTGCTGCTGAAGTCCAGGAATGAGGCAGATGAGCTCC
GTAAGCTCTGGACAACCTTGAAGACAAATGATCATGAAAGACAAAACTGGCAGGATAAAGGCCAGCA
GTACAGAACTGGTTTCTGAAAGAGTTTCTCGGTTGAAAAGTGAGCTTGAGGATAACATAAGAAGGCTC
CGTGCCCTTGAGATGGGGTTCAGAAGGTCCACAAAGGCCACCACCATCGCCAATGTGGTGTCTGGCTCTC
TCAGCATTTCTCTGGCATCCTGACCCTCGTCGGCATGGGTCTGGCACCTTCACAGAGGGAGGCAGCCT
TGTAAGCTTTGAACTGGGATGGAGTTGGGAATCACAGCCGCTTTGACCGGGATTACCAGCAGTACCATG
GACTACGGAAAGAAGTGGTGGACACAAGCCCAAGCCACGACCTGGTTCATCAAAGCCTTGACAAATTGA
AGGAGGTGAGGGAGTTTTTGGGTGAGAATATCCAATTTCTTTCTTACGTTAGTGGCAATACTTACCACT
CACACGAGGCATTGGGAAGGACATCCGTGCCCTCAGACGAGCCAGAGCCAATCTTCAGTCAGTACCGCAT
GCCTCAGCCTCAGCCCCCGGGTCACTGAGCCAATCTCAGCTGAAAGCGGTGAACAGGTGGAGAGGGTTA
ATGAACCCAGCATCTGAAATGAGCAGAGGAGTCAAGCTCACGGATGTGGCCCTGTAAGCTTCTTTCT
TGTGCTGGATGTAGTCTACCTCGTGTACGAATCAAAGCACTTACATGAGGGGGCAAAGTCAGAGACAGCT
GAGGAGCTGAAGAAGGTGGCTCAGGAGCTGGAGGAGAAGCTAAACATTCTCAACAATAATTATAAGATTC
TGCAGGCGGACCAAGAAGT

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG226644 representing NM_001136541
 Red=Cloning site Green=Tags(s)

MEGAALLRVSVLCI WVQQNVPSGTDGDPQSKPLGDWAAGTMDPESSIFIEDAIKYFKEKVSTQNLLLLL
 TDNEAWNGFVAAAELPRNEADELRKALDNLARQMIMKDKNWHDKGQYRNWFLKEFPRLKSELEDNIRRL
 RALADGVQKVHKGTIIANVVSGSLSISSGILTLVGMGLAPFTEGGSLVLEPGMELGITAALTGITSSTM
 DYGKKWWTQAQAHDLVIKSLDKLKEVREFLGENISNFLSLAGNTYQLTRGIGKDIRALRRARANLQSVPH
 ASASRPRVTEPI SAESGEQVERVNEPSILEMSRGVKLDVAPVSFFLVLDVVYLVYESKHLHEGAKSETA
 EELKKVAQELEEKLNILNANNYKILQADQEL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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 Size: 2831 bp

RefSeq ORF: 1143 bp

Locus ID: 8542

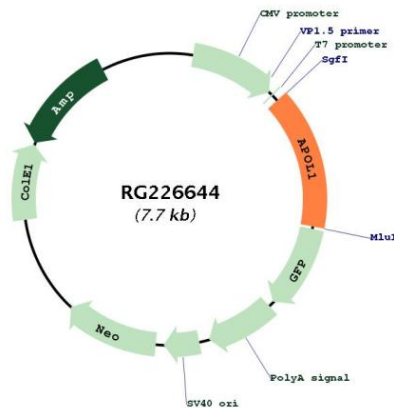
UniProt ID: [O14791](#)

Cytogenetics: 22q12.3

Protein Families: Secreted Protein, Transmembrane

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 RG226644