

Product datasheet for **RG217000**

Apolipoprotein L 1 (APOL1) (NM_145343) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apolipoprotein L 1 (APOL1) (NM_145343) 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:	>RG217000 representing NM_145343 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGATTCAAAAGCCACACTGTGGAATTGAGGAGGCCCTGCAGCGACATGGAGGGAGCTGCTTTGCTGA
GAGTCTCTGTCTCTGCATCTGGATGAGTGCACCTTTCCCTTGGTGTGGGAGTGAGGGCAGAGGAAGCTGG
AGCGAGGGTGAACAAAACGTTCCAAGTGGACAGATACTGGAGATCCTCAAAGTAAGCCCTCGGTGAC
TGGGCTGCTGGCACCATGGACCCAGAGAGCAGTATCTTTATTGAGGATGCCATTAAGTATTTCAAGGAAA
AAGTGAGCACACAGAATCTGCTACTCCTGCTGACTGATAATGAGGCCTGGAACGGATTCTGGCTGCTGC
TGAAGTCCCAGGAATGAGGCAGATGAGCTCCGTAAAGCTCTGGACAACCTTGAAGACAAATGATCATG
AAAGACAAAACCTGGCACGATAAAGGCCAGCAGTACAGAACTGGTTTCTGAAAGAGTTTCTCGGTTGA
AAAGTGAGCTTGAGGATAACATAAGAAGGCTCCGTGCCCTTGAGATGGGGTTTCAAGGTTCCACAAAGG
CACCACCATCGCCAATGTGGTGTCTGGCTCTCAGCATTTCTCTGGCATCCTGACCCTCGTCGGCATG
GGTCTGGCACCCTTACAGAGGGAGGCAGCCTTGTACTCTTGAACCTGGGATGGAGTTGGGAATCACAG
CCGCTTTGACCGGGATTACCAGCAGTACCATGGACTACGAAAGAAGTGGTGGACACAAGCCCAAGCCCA
CGACCTGGTCATCAAAGCCTTGACAAATTGAAGGAGGTGAGGGAGTTTTTGGGTGAGAACATATCCAAC
TTTCTTTCTTAGCTGGCAATACTTACCAACTCACAGAGGCATTGGGAAGGACATCCGTGCCCTCAGAG
GAGCCAGAGCCAATCTTCAGTCAGTACCGCATGCCTCAGCCTCAGCCTCAGCCTCAGCCTCAGCCTCAGCCTC
AGCTGAAAGCGGTGAACAGGTGGAGAGGGTTAATGAACCCAGCATCCTGGAAATGAGCAGAGGAGTCAAG
CTCACGGATGTGGCCCTGTAAGCTTCTTTCTGTGCTGGATGTAGTCTACCTCGTGTACGAATCAAAGC
ACTTACATGAGGGGGCAAAGTCAGAGACAGCTGAGGAGCTGAAGAAGGTGGCTCAGGAGCTGGAGGAGAA
GCTAAACATTCTCAACAATAATTATAAGATTCTGCAGGCCGACCAAGAAGTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217000 representing NM_145343
 Red=Cloning site Green=Tags(s)

MRFKSHTVELRRPCSDMEGAALLRVSVLCIWSALFLGVGVRAEEAGARVQQNVPSGTDGDPQSKPLGD
 WAAGTMDPESSIFIEDAIKYFKEKVSTQNL LLLLDNEAWNGFVAAAELPRNEADELRKALDNLARQMIM
 KDKNWHDKGQQYRNWFLKEFPRLKSELEDNIRRLRALADGVQKVHKGTTIANVVSGLSISSSGILTLVGM
 GLAPFTEGGSLVLEPGMELGITAALTGITSSTMDYGKKWWTQAQAHDLVIKSLDKLKEVREFLGENISN
 FLSLAGNTYQLTRGIGKDIRALRRARANLQSVPHASASRPRVTEPI SAESGEQVERVNEPSILEMSRGVK
 LTDVAPVSFFLVLDVVYLVYESKHLHEGAKSETAEELKKVAQELEEKLNLNNNYKILQADQEL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145343

ORF Size: 1242 bp

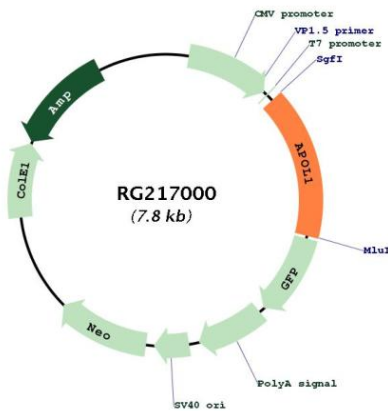
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

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_145343.2](#), [NP_663318.1](#)
- RefSeq Size:** 3010 bp
- RefSeq ORF:** 1245 bp
- Locus ID:** 8542
- 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 RG217000