

### Product datasheet for RC210762L3

#### OriGene Technologies, Inc.

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## Apolipoprotein A I (APOA1) (NM\_000039) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: Apolipoprotein A I (APOA1) (NM\_000039) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Apolipoprotein A I

**Synonyms:** apo(a); HPALP2

Mammalian Cell

Selection:

Puromycin

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

**ORF Nucleotide** 

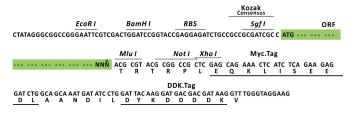
The ORF insert of this clone is exactly the same as(RC210762).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

**ACCN:** NM\_000039

ORF Size: 801 bp



#### Apolipoprotein A I (APOA1) (NM\_000039) Human Tagged Lenti ORF Clone - RC210762L3

**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:** <u>NM 000039.1</u>

RefSeq Size:897 bpRefSeq ORF:804 bpLocus ID:335

UniProt ID: P02647
Cytogenetics: 11q23.3

**Domains:** Apolipoprotein

**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** PPAR signaling pathway

MW: 30.8 kDa

Gene Summary: This gene encodes apolipoprotein A-I, which is the major protein component of high density

lipoprotein (HDL) in plasma. The encoded preproprotein is proteolytically processed to generate the mature protein, which promotes cholesterol efflux from tissues to the liver for

excretion, and is a cofactor for lecithin cholesterolacyltransferase (LCAT), an enzyme responsible for the formation of most plasma cholesteryl esters. This gene is closely linked with two other apolipoprotein genes on chromosome 11. Defects in this gene are associated

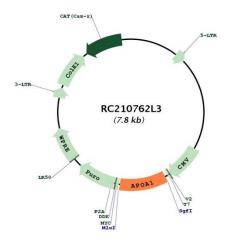
with HDL deficiencies, including Tangier disease, and with systemic non-neuropathic

amyloidosis. Alternative splicing results in multiple transcript variants, at least one of which

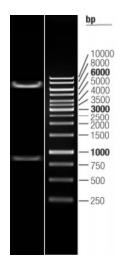
encodes a preproprotein. [provided by RefSeq, Dec 2015]



# **Product images:**



Circular map for RC210762L3



Double digestion of RC210762L3 using Sgfl and Mlul