

## Product datasheet for **RC208888**

### Apolipoprotein CI (APOC1) (NM\_001645) Human Tagged ORF Clone

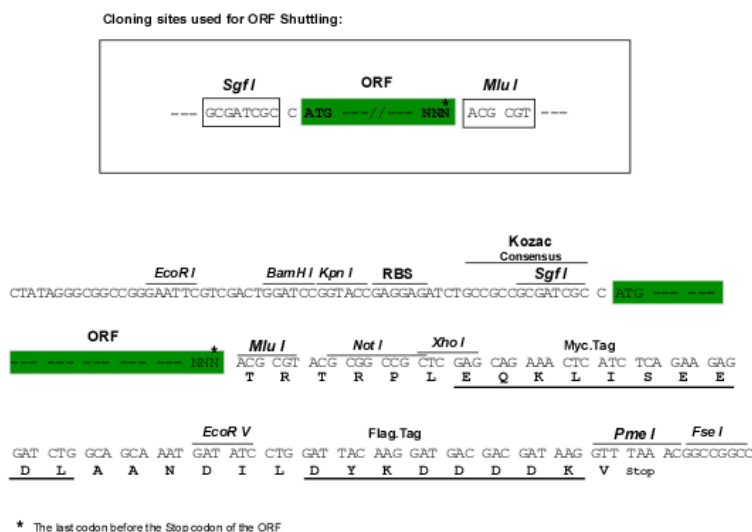
#### Product data:

Product Type:	Expression Plasmids
Product Name:	Apolipoprotein CI (APOC1) (NM_001645) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Apolipoprotein CI
Synonyms:	Apo-CI; apo-CIB; ApoC-I; apoC-IB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<p>&gt;RC208888 ORF sequence</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p> <p>TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC</p> <p>ATGAGGCTCTTCCTGCTCGCTCCCGGTCTGGTGGTGGTTCTGTCGATCGTCTTGAAGGCCAGCCCCAGCCCAGGGGACCCAGACGTCTCCAGTGCCTTGGATAAGCTGAAGGAGTTTGGAAACACACTGGAGGACAA GGCTCGGGAACATCATGCCGCATCAACAGAGTGAACTTCTGCCAAGATGCGGGAGTGGTTTTTCAGAGACATTTCAGAAAGTGAAGGAGAACTCAAGATTGACTCA</p> <p>ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA</p>
Protein Sequence:	<p>&gt;RC208888 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MRLFLSLPVLVVLSIVLEGPAPAQGTPDVSSALDKLKEFGNTLEDKARELISRIKQSELSAKMREWFSETFQKVKEKLKIDS</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Chromatograms:	<a href="https://cdn.origene.com/chromatograms/mk6771_d12.zip">https://cdn.origene.com/chromatograms/mk6771_d12.zip</a>
Restriction Sites:	SgfI-MluI



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## Cloning Scheme:



ACCN: NM\_001645

ORF Size: 249 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

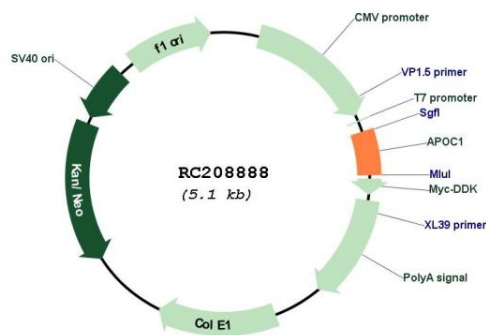
RefSeq: [NM\\_001645.5](#)

RefSeq Size: 464 bp

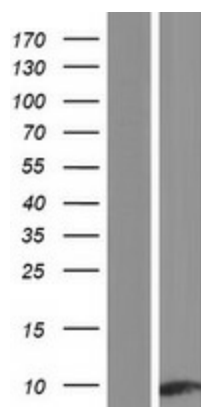
RefSeq ORF:	252 bp
Locus ID:	341
UniProt ID:	<a href="#">P02654</a>
Cytogenetics:	19q13.32
Domains:	ApoC-I
Protein Families:	Secreted Protein
MW:	9.3 kDa

**Gene Summary:** This gene encodes a member of the apolipoprotein C1 family. This gene is expressed primarily in the liver, and it is activated when monocytes differentiate into macrophages. The encoded protein plays a central role in high density lipoprotein (HDL) and very low density lipoprotein (VLDL) metabolism. This protein has also been shown to inhibit cholesteryl ester transfer protein in plasma. A pseudogene of this gene is located 4 kb downstream in the same orientation, on the same chromosome. This gene is mapped to chromosome 19, where it resides within a apolipoprotein gene cluster. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Sep 2016]

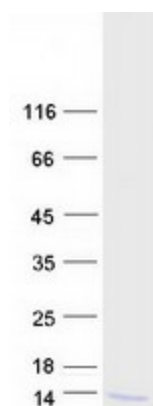
## Product images:



Circular map for RC208888



Western blot validation of overexpression lysate (Cat# [LY419826]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208888 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified APOC1 protein (Cat# [TP308888]). The protein was produced from HEK293T cells transfected with APOC1 cDNA clone (Cat# RC208888) using MegaTran 2.0 (Cat# [TT210002]).