

Product datasheet for **RG208888**

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: TurboGFP
Symbol: APOC1
Synonyms: Apo-CI; apo-CIB; ApoC-I; apoC-IB
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG208888 representing NM_001645
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGCTCTTCCTGTCGCTCCCGTCTGGTGGTGGTTCTGTCGATCGTCTTGAAGGCCAGCCCCAG
 CCCAGGGGACCCAGACGTCTCCAGTGCCTTGGATAAGCTGAAGGAGTTTGGAAACACACTGGAGGACAA
 GGCTCGGGAACATCAGCCGCATCAAACAGAGTGAACCTTCTGCCAAGATGCGGGAGTGGTTTTTCAGAG
 ACATTTAGAAAAGTGAAGGAGAACTCAAGATTGACTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208888 representing NM_001645
 Red=Cloning site Green=Tags(s)

MRLFLSLPVLVVLSIVLEGPAPAQGTPDVSSALDKLKEFGNTLEDKARELISRKQSELSAKMREWFSE
 TFQKVKEKLIKIDS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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:	<ol style="list-style-type: none">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_001645.5</u>
RefSeq Size:	464 bp
RefSeq ORF:	252 bp
Locus ID:	341
UniProt ID:	<u>P02654</u>
Cytogenetics:	19q13.32
Domains:	ApoC-I
Protein Families:	Secreted Protein
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]