

## Product datasheet for **RG202771**

### Apolipoprotein CII (APOC2) (NM\_000483) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Apolipoprotein CII (APOC2) (NM\_000483) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Apolipoprotein CII  
**Synonyms:** APO-CII; APOC-II  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG202771 representing NM\_000483  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCACACGACTCCTCCAGCTCTGTTTCTTGTCTCCTGGTATTGGGATTTGAGGTCCAGGGGACCC  
 AACAGCCCAGCAAGATGAGATGCCTAGCCCGACCCTCCTCACCCAGGTGAAGGAATCTCTCTCCAGTTA  
 CTGGGAGTCAGCAAAGACAGCCGCCAGAACCTGTACGAGAAGACATACCTGCCCGCTGTAGATGAGAAA  
 CTCAGGGACTTGTACAGCAAAAGCACAGCAGCCATGAGCACTTACACAGGCATTTTACTGACCAAGTTC  
 TTTCTGTGCTGAAGGGAGAGGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG202771 representing NM\_000483  
 Red=Cloning site Green=Tags(s)  
 MGTRLLPALFLVLLVLGFEVQGTQPPQDEMPSTLLTQVKESLSSYWESAKTAAQNLYEKTYLPVAVDEK  
 LRDLYSKSTAAMSTYTGIFTDQVLSVLKGE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**



**ACCN:** NM\_000483

**ORF Size:** 303 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\\_000483.3](#), [NP\\_000474.2](#)

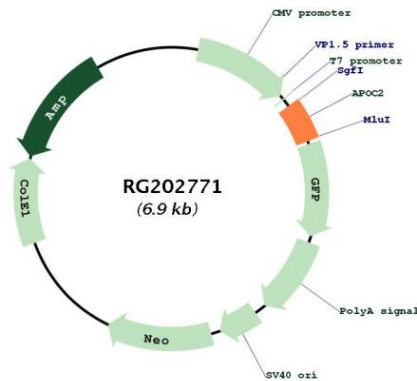
**RefSeq Size:** 753 bp

**RefSeq ORF:** 306 bp

**Locus ID:** 344  
**UniProt ID:** [P02655](#)  
**Cytogenetics:** 19q13.32  
**Protein Families:** Druggable Genome, Secreted Protein

**Gene Summary:** This gene encodes a lipid-binding protein belonging to the apolipoprotein gene family. The protein is secreted in plasma where it is a component of very low density lipoprotein. This protein activates the enzyme lipoprotein lipase, which hydrolyzes triglycerides and thus provides free fatty acids for cells. Mutations in this gene cause hyperlipoproteinemia type IB, characterized by hypertriglyceridemia, xanthomas, and increased risk of pancreatitis and early atherosclerosis. This gene is present in a cluster with other related apolipoprotein genes on chromosome 19. Naturally occurring read-through transcription exists between this gene and the neighboring upstream apolipoprotein C-IV (APOC4) gene. [provided by RefSeq, Mar 2011]

**Product images:**



Circular map for RG202771