

Product datasheet for **RG206566**

Apolipoprotein CIII (APOC3) (NM_000040) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apolipoprotein CIII (APOC3) (NM_000040) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Apolipoprotein CIII
Synonyms: APOCIII
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG206566 representing NM_000040
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCCCCGGGTACTCCTTGTGTGCCCTCCTGGCGCTCCTGGCCTCTGCCGAGCTTCAGAGGCCG
AGGATGCCTCCCTTCTCAGCTTCATGCAGGTTACATGAAGCACGCCACCAAGACCGCAAGGATGCACT
GAGCAGCGTGCAGGAGTCCCAGGTGGCCAGCAGGCCAGGGCTGGGTGACCGATGGCTTCAGTTCCCTG
AAAGACTACTGGAGCACCGTTAAGGACAAGTTCTCTGAGTCTGGGATTTGGACCCTGAGGTCAGACCAA
CTTCAGCCGTGGCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206566 representing NM_000040
Red=Cloning site Green=Tags(s)
MQPRVLLVVALALLASARASEAEDASLLSFMQGYMKHATKTAKDALSSVQESQVAQQARGWVTDGFSSL
KDYWSTVKDKFSEFWDLDPVVRPTSAVAA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_000040

ORF Size: 297 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.

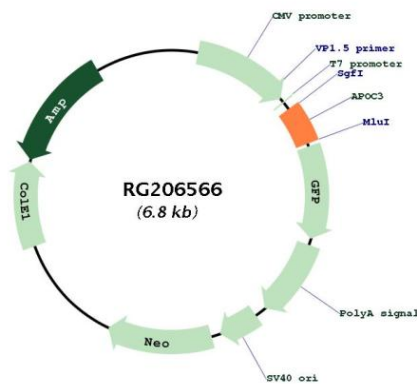
RefSeq: [NM_000040.3](#)

RefSeq Size: 533 bp

RefSeq ORF: 300 bp

Locus ID:	345
UniProt ID:	P02656
Cytogenetics:	11q23.3
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	PPAR signaling pathway
Gene Summary:	This gene encodes a protein component of triglyceride (TG)-rich lipoproteins (TRLs) including very low density lipoproteins (VLDL), high density lipoproteins (HDL) and chylomicrons. The encoded protein plays a role in the metabolism of these TRLs through multiple modes. This protein has been shown to promote the secretion of VLDL1, inhibit lipoprotein lipase enzyme activity, and delay catabolism of TRL remnants. Mutations in this gene are associated with low plasma triglyceride levels and reduced risk of ischemic cardiovascular disease, and hyperalphalipoproteinemia, which is characterized by elevated levels of high density lipoprotein (HDL) and HDL cholesterol in human patients. This gene and other related genes comprise an apolipoprotein gene cluster on chromosome 11. [provided by RefSeq, Sep 2017]

Product images:



Circular map for RG206566