

## **Product datasheet for SC203947**

## OriGene Technologies, Inc.

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## Apolipoprotein B (APOB) (NM\_000384) Human 3' UTR Clone

## **Product data:**

**Product Type:** 3' UTR Clones

Product Name: Apolipoprotein B (APOB) (NM\_000384) Human 3' UTR Clone

**Vector:** pMirTarget (PS100062)

Symbol: APOB

Synonyms: apoB-48; apoB-100; FCHL2; FLDB; LDLCQ4

ACCN: NM\_000384

**Insert Size:** 331 bp

Insert Sequence: >SC203947 3'UTR clone of NM\_000384

The sequence shown below is from the reference sequence of NM\_000384. The complete

sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG

TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC

TTGCTAAACTTGGGGGAGGAGGAACAAATAAATGGAGTCTTTATTGTGTATCATA

CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG

Restriction Sites: Sgfl-Mlul

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a

point of reference. Note that the complete sequence of this clone is largely the same as the

reference sequence but may contain minor differences, e.g., single nucleotide

polymorphisms (SNPs).

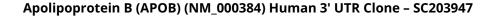
**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The

package also includes 100 pmols of both the corresponding 5' and 3' vector primers in

separate vials.

**RefSeg:** NM 000384.3







**Summary:** 

This gene product is the main apolipoprotein of chylomicrons and low density lipoproteins (LDL), and is the ligand for the LDL receptor. It occurs in plasma as two main isoforms, apoB-48 and apoB-100: the former is synthesized exclusively in the gut and the latter in the liver. The intestinal and the hepatic forms of apoB are encoded by a single gene from a single, very long mRNA. The two isoforms share a common N-terminal sequence. The shorter apoB-48 protein is produced after RNA editing of the apoB-100 transcript at residue 2180 (CAA->UAA), resulting in the creation of a stop codon, and early translation termination. Mutations in this gene or its regulatory region cause hypobetalipoproteinemia, normotriglyceridemic hypobetalipoproteinemia, and hypercholesterolemia due to ligand-defective apoB, diseases affecting plasma cholesterol and apoB levels. [provided by RefSeq, Dec 2019]

Locus ID: 338 MW: 12.9