

Product datasheet for RC217297L1

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OriGene Technologies, Inc.

CPT1B (NM_004377) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CPT1B (NM 004377) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: CPT1B

Synonyms: CPT1-M; CPT1M; CPTI-M; M-CPT1; MCCPT1; MCPT1

Mammalian Cell None

Selection:

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

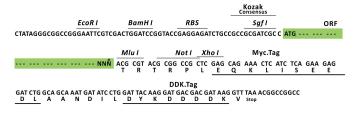
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC217297).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_004377

ORF Size: 2316 bp





CPT1B (NM_004377) Human Tagged Lenti ORF Clone - RC217297L1

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: <u>NM 004377.2</u>

RefSeq Size: 2879 bp
RefSeq ORF: 2319 bp
Locus ID: 1375

 UniProt ID:
 Q92523

 Cytogenetics:
 22q13.33

Domains: Carn acyltransf

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Adipocytokine signaling pathway, Fatty acid metabolism, PPAR signaling pathway

MW: 87.6 kDa

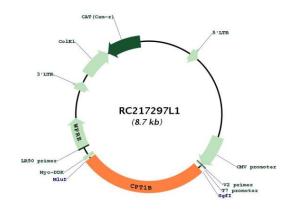
Gene Summary: The protein encoded by this gene, a member of the carnitine/choline acetyltransferase family,

is the rate-controlling enzyme of the long-chain fatty acid beta-oxidation pathway in muscle mitochondria. This enzyme is required for the net transport of long-chain fatty acyl-CoAs from the cytoplasm into the mitochondria. Multiple transcript variants encoding different isoforms have been found for this gene, and read-through transcripts are expressed from the

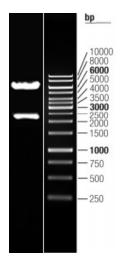
upstream locus that include exons from this gene. [provided by RefSeq, Jun 2009]



Product images:



Circular map for RC217297L1



Double digestion of RC217297L1 using Sgfl and Mlul