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Product datasheet for RC221740L2V

CPT1A (NM_001876) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	CPT1A (NM_001876) Human Tagged ORF Clone Lentiviral Particle
Symbol:	CPT1A
Synonyms:	CPT1; CPT1-L; L-CPT1
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_001876
ORF Size:	2319 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC221740).
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.
RefSeq:	NM_001876.2
RefSeq Size:	2941 bp
RefSeq ORF:	2322 bp
Locus ID:	1374
UniProt ID:	P50416
Cytogenetics:	11q13.3
Domains:	Carn_acyltransf
Protein Families:	Druggable Genome, Transmembrane

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

MW: 88.2 kDa

Gene Summary: The mitochondrial oxidation of long-chain fatty acids is initiated by the sequential action of carnitine palmitoyltransferase I (which is located in the outer membrane and is detergent-labile) and carnitine palmitoyltransferase II (which is located in the inner membrane and is detergent-stable), together with a carnitine-acylcarnitine translocase. CPT I is the key enzyme in the carnitine-dependent transport across the mitochondrial inner membrane and its deficiency results in a decreased rate of fatty acid beta-oxidation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]