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Product datasheet for TL313747V

CPT1A Human shRNA Lentiviral Particle (Locus ID 1374)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	CPT1A Human shRNA Lentiviral Particle (Locus ID 1374)
Locus ID:	1374
Synonyms:	CPT1; CPT1-L; L-CPT1
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	CPT1A - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10^7 TU/ml.
RefSeq:	NM_001031847, NM_001876, NM_001031847.1, NM_001031847.2, NM_001876.1, NM_001876.2, NM_001876.3, BC000185, NM_001876.4
UniProt ID:	P50416
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]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

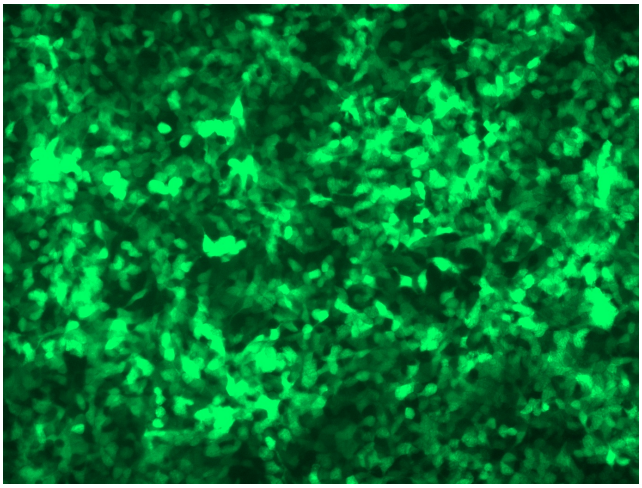
View online »

Performance Guaranteed:

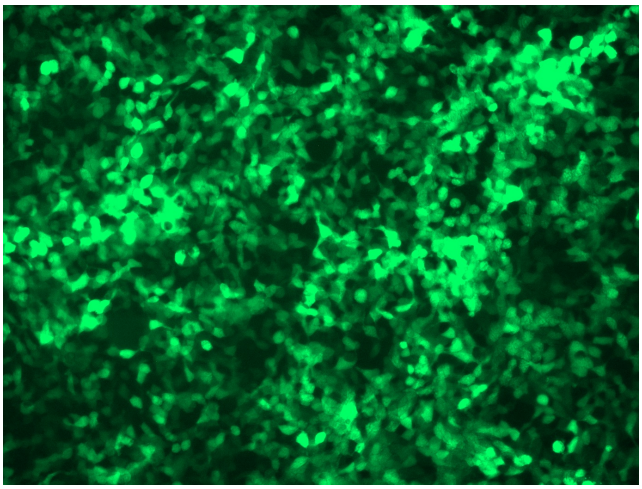
OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

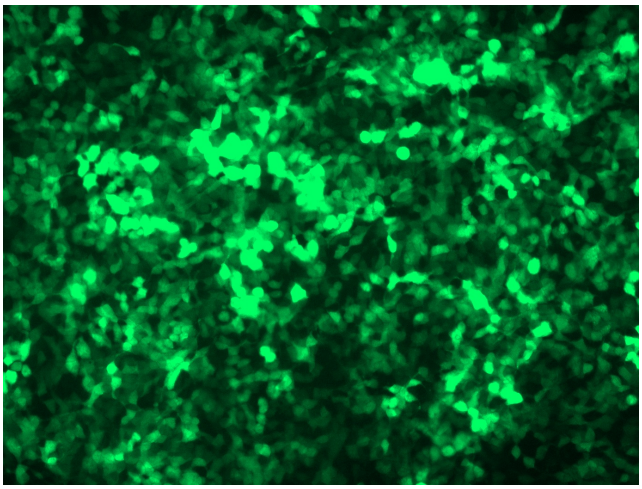
Product images:



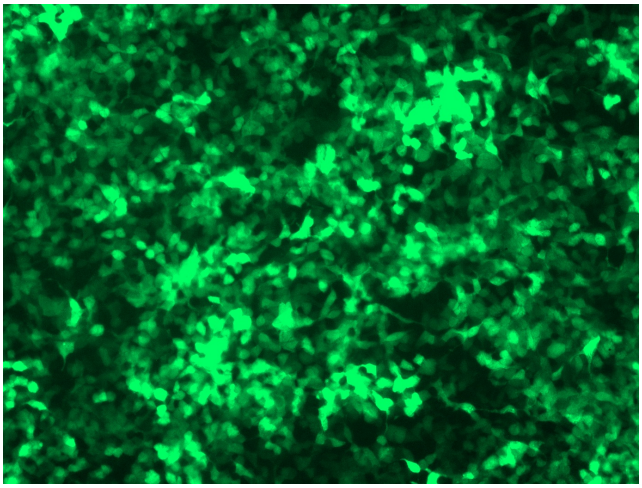
GFP signal was observed under microscope at 48 hours after transduction of TL313747A virus into HEK293 cells. TL313747A virus was prepared using lenti-shRNA TL313747A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL313747B virus into HEK293 cells. TL313747B virus was prepared using lenti-shRNA TL313747B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL313747C] virus into HEK293 cells. [TL313747C] virus was prepared using lenti-shRNA [TL313747C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL313747D] virus into HEK293 cells. [TL313747D] virus was prepared using lenti-shRNA [TL313747D] and [TR30037] packaging kit.