

Product datasheet for **TR309124**

SPTLC1 Human shRNA Plasmid Kit (Locus ID 10558)

Product data:

Product Type:	shRNA Plasmids
Product Name:	SPTLC1 Human shRNA Plasmid Kit (Locus ID 10558)
Locus ID:	10558
Synonyms:	HSAN1; HSN1; LBC1; LCB1; SPT1; SPTI
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	SPTLC1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 10558). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC007085 , NM_001281303 , NM_006415 , NM_178324 , NM_178324.1 , NM_178324.2 , NM_006415.1 , NM_006415.2 , NM_006415.3 , NM_001281303.1 , BC007085.1 , BC068537 , NM_001368273 , NM_001368272 , NM_178324.3 , NM_001281303.2 , NM_006415.4
UniProt ID:	O15269
Summary:	This gene encodes a member of the class-II pyridoxal-phosphate-dependent aminotransferase family. The encoded protein is the long chain base subunit 1 of serine palmitoyltransferase. Serine palmitoyltransferase converts L-serine and palmitoyl-CoA to 3-oxosphinganine with pyridoxal 5'-phosphate and is the key enzyme in sphingolipid biosynthesis. Mutations in this gene were identified in patients with hereditary sensory neuropathy type 1. Alternatively spliced variants encoding different isoforms have been identified. Pseudogenes of this gene have been defined on chromosomes 1, 6, 10, and 13. [provided by RefSeq, Jul 2013]
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 .



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**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).