

## Product datasheet for **TL706944V**

### Sptlc1 Rat shRNA Lentiviral Particle (Locus ID 361213)

#### Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	Sptlc1 Rat shRNA Lentiviral Particle (Locus ID 361213)
Locus ID:	361213
Synonyms:	Lcb1; RGD1306617; Spt1
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	Sptlc1 - Rat shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10 <sup>7</sup> TU/ml.
RefSeq:	<a href="#">NM_001108406</a> , <a href="#">NM_001108406.1</a>
UniProt ID:	<a href="#">D4A2H2</a>
Summary:	Serine palmitoyltransferase (SPT). The heterodimer formed with SPTLC2 or SPTLC3 constitutes the catalytic core. The composition of the serine palmitoyltransferase (SPT) complex determines the substrate preference. The SPTLC1-SPTLC2-SPTSSA complex shows a strong preference for C16-CoA substrate, while the SPTLC1-SPTLC3-SPTSSA isozyme uses both C14-CoA and C16-CoA as substrates, with a slight preference for C14-CoA. The SPTLC1-SPTLC2-SPTSSB complex shows a strong preference for C18-CoA substrate, while the SPTLC1-SPTLC3-SPTSSB isozyme displays an ability to use a broader range of acyl-CoAs, without apparent preference (By similarity). Required for adipocyte cell viability and metabolic homeostasis (By similarity).[UniProtKB/Swiss-Prot Function]
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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .

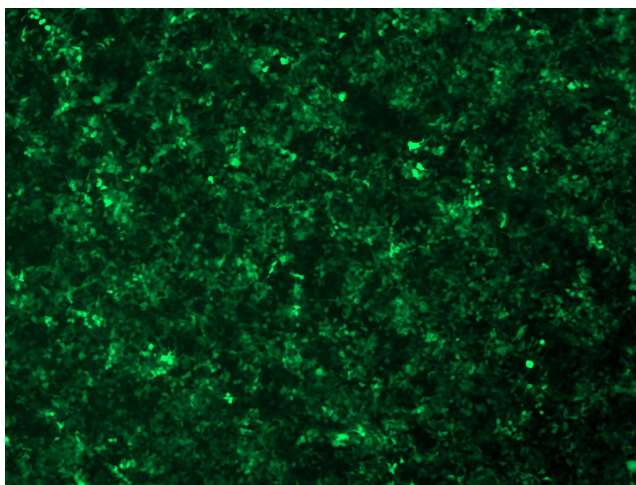


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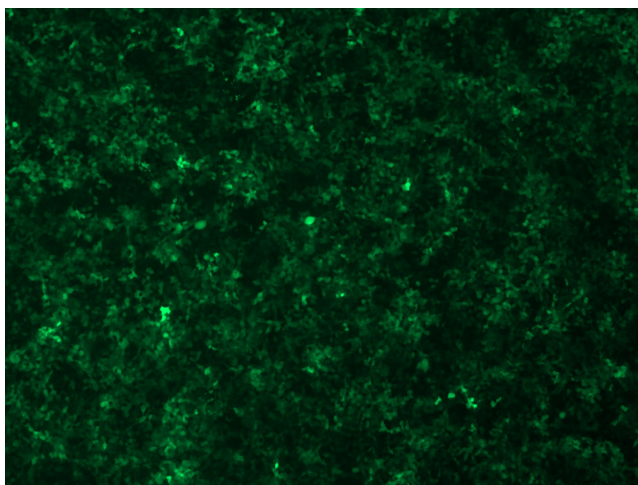
**Performance  
Guaranteed:**

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.

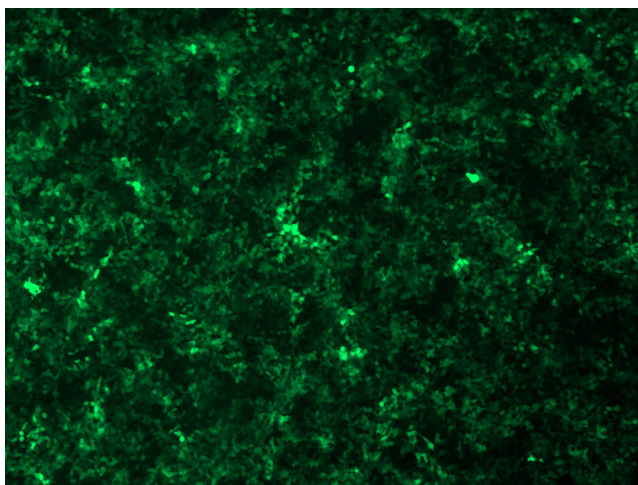
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). 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:**

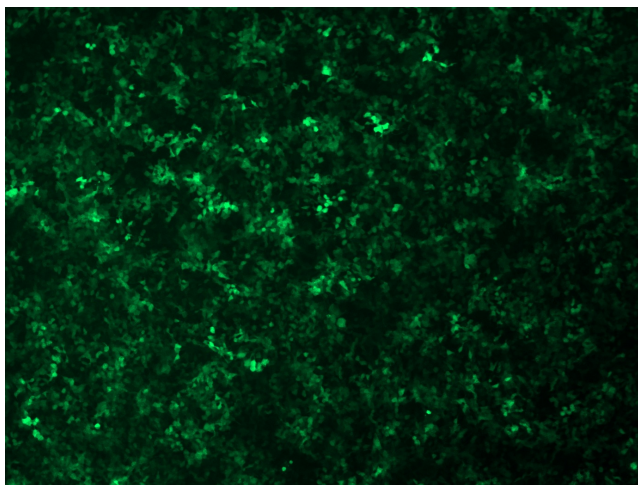
GFP signal was observed under microscope at 48 hours after transduction of TL706944A virus into HEK293 cells. TL706944A virus was prepared using lenti-shRNA TL706944A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL706944B virus into HEK293 cells. TL706944B virus was prepared using lenti-shRNA TL706944B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL706944C] virus into HEK293 cells. [TL706944C] virus was prepared using lenti-shRNA [TL706944C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL706944D] virus into HEK293 cells. [TL706944D] virus was prepared using lenti-shRNA [TL706944D] and [TR30037] packaging kit.