

Product datasheet for **TL500718V**

Lpin1 Mouse shRNA Lentiviral Particle (Locus ID 14245)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	Lpin1 Mouse shRNA Lentiviral Particle (Locus ID 14245)
Locus ID:	14245
Synonyms:	4631420P06; fld; Kiaa0188; Lipin1; mKIAA0188
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	Lpin1 - Mouse shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10 ⁷ TU/ml.
RefSeq:	<u>BC042462</u> , <u>NM_001130412</u> , <u>NM_015763</u> , <u>NM_172950</u> , <u>NM_001355598</u> , <u>NM_015763.1</u> , <u>NM_015763.2</u> , <u>NM_015763.3</u> , <u>NM_015763.4</u> , <u>NM_001130412.1</u> , <u>NM_172950.1</u> , <u>NM_172950.2</u> , <u>NM_172950.3</u>
UniProt ID:	<u>Q91ZP3</u>
Summary:	Plays important roles in controlling the metabolism of fatty acids at different levels. Acts as a magnesium-dependent phosphatidate phosphatase enzyme which catalyzes the conversion of phosphatidic acid to diacylglycerol during triglyceride, phosphatidylcholine and phosphatidylethanolamine biosynthesis. Acts also as nuclear transcriptional coactivator for PPARGC1A/PPARA regulatory pathway to modulate lipid metabolism gene expression. Is involved in adipocyte differentiation. Isoform 1 is recruited at the mitochondrion outer membrane and is involved in mitochondrial fission by converting phosphatidic acid to diacylglycerol.[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 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).