

Product datasheet for **TL501680V**

Plk1 Mouse shRNA Lentiviral Particle (Locus ID 18817)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	Plk1 Mouse shRNA Lentiviral Particle (Locus ID 18817)
Locus ID:	18817
Synonyms:	P; Plk; STPK; STPK13
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	Plk1 - Mouse shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10 ⁷ TU/ml.
RefSeq:	BC006880 , NM_011121 , NM_011121.1 , NM_011121.2 , NM_011121.3 , NM_011121.4
UniProt ID:	Q07832
Summary:	The Ser/Thr protein kinase encoded by this gene belongs to the CDC5/Polo subfamily. It is highly expressed during mitosis and may play a role in DNA replication during S phase. This gene is expressed in all embryonic tissues, but restricted to thymus and ovaries in adult tissues. Homozygous knockout mice were embryonic lethal, suggesting that this gene is important for early embryonic development. This gene is thought to be a potential oncogene because it is overexpressed in a variety of tumors and tumor cell lines. Depletion of this protein in cancer cells has been shown to inhibit cell proliferation and suppress oncogenic transformation; hence, it is a target for cancer therapy. [provided by RefSeq, Sep 2015]
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).