

## Product datasheet for **TL302509**

### PHF19 Human shRNA Plasmid Kit (Locus ID 26147)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	PHF19 Human shRNA Plasmid Kit (Locus ID 26147)
Locus ID:	26147
Synonyms:	MTF2L1; PCL3; TDRD19B
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	PHF19 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 26147). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_001009936</a> , <a href="#">NM_001286840</a> , <a href="#">NM_001286842</a> , <a href="#">NM_001286843</a> , <a href="#">NM_015651</a> , <a href="#">NR_104601</a> , <a href="#">NM_001009936.1</a> , <a href="#">NM_001009936.2</a> , <a href="#">NM_015651.1</a> , <a href="#">NM_015651.2</a> , <a href="#">NM_001286843.1</a> , <a href="#">NM_001286842.1</a> , <a href="#">NM_001286840.1</a> , <a href="#">BC125076</a> , <a href="#">BC022374</a> , <a href="#">BC044224</a> , <a href="#">BC108663</a> , <a href="#">BC125077</a> , <a href="#">BM784783</a> , <a href="#">BM784790</a> , <a href="#">NM_001286843.2</a> , <a href="#">NM_015651.3</a> , <a href="#">NM_001009936.3</a>
UniProt ID:	<a href="#">Q5T6S3</a>
Summary:	Polycomb group (PcG) that specifically binds histone H3 trimethylated at 'Lys-36' (H3K36me3) and recruits the PRC2 complex. Probably involved in the transition from an active state to a repressed state in embryonic stem cells: acts by binding to H3K36me3, a mark for transcriptional activation, and recruiting H3K36me3 histone demethylases RIOX1 or KDM2B, leading to demethylation of H3K36 and recruitment of the PRC2 complex that mediates H3K27me3 methylation, followed by de novo silencing. Recruits the PRC2 complex to CpG islands and contributes to embryonic stem cell self-renewal. Also binds dimethylated at 'Lys-36' (H3K36me2). Isoform 1 and isoform 2 inhibit transcription from an HSV-tk promoter. [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).