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Product datasheet for TR502247

Phf1 Mouse shRNA Plasmid (Locus ID 21652)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Phf1 Mouse shRNA Plasmid (Locus ID 21652)
Locus ID:	21652
Synonyms:	AW557215; D17Ertd455; D17Ertd455e; mPc; Pcl1; PHF; Phf2; Tctex3
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Phf1 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 21652). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001302397, NM_009343, NR_126158, NM_009343.1, NM_009343.2, NM_009343.3, NM_001302397.1, BC015077, BC145595, BC145596, BC160354
UniProt ID:	Q9Z1B8
Summary:	The protein encoded by this gene belongs to the polycomb-like protein family, which is a component of polycomb repressive complex-2. This complex represses gene expression by catalyzing the trimethylation of histone H3 lysine 27 and is required for the regulation of developmental genes including homeotic genes. The gene is expressed primarily in testis tissue. Small interfering RNA-mediated knockdown in cultured cell lines results in changes in homeotic gene expression coincident with alterations in promoter methylation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]
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).