

Product datasheet for **TR302419**

PLEKHN1 Human shRNA Plasmid Kit (Locus ID 84069)

Product data:

Product Type:	shRNA Plasmids
Product Name:	PLEKHN1 Human shRNA Plasmid Kit (Locus ID 84069)
Locus ID:	84069
Synonyms:	CLPABP
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	PLEKHN1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 84069). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001160184 , NM_032129 , NM_032129.1 , NM_032129.2 , NM_001160184.1 , BC101386 , BC101387 , BC141658 , NM_001367552 , NM_032129.3
UniProt ID:	Q494U1
Summary:	Controls the stability of the leptin mRNA harboring an AU-rich element (ARE) in its 3' UTR, in cooperation with the RNA stabilizer ELAVL1 (PubMed:29180010). Decreases the stability of the leptin mRNA by antagonizing the function of ELAVL1 by inducing its atypical recruitment from the nucleus to the cytosol (By similarity). Binds to cardiolipin (CL), phosphatidic acid (PA), phosphatidylinositol 4-phosphate (PtdIns(4)P) and phosphatidylserine (PS) (PubMed:18191643). Promotes apoptosis by enhancing BAX-BAK hetro-oligomerization via interaction with BID in colon cancer cells (PubMed:29531808) (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 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).