

## Product datasheet for **TL316685**

### PTPN7 Human shRNA Plasmid Kit (Locus ID 5778)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	PTPN7 Human shRNA Plasmid Kit (Locus ID 5778)
Locus ID:	5778
Synonyms:	BPTP-4; HEPTP; LC-PTP; LPTP; PTPNI
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	PTPN7 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 5778). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_001199797</a> , <a href="#">NM_002832</a> , <a href="#">NM_080588</a> , <a href="#">NM_080589</a> , <a href="#">NR_037663</a> , <a href="#">NR_037664</a> , <a href="#">NM_002832.1</a> , <a href="#">NM_002832.2</a> , <a href="#">NM_002832.3</a> , <a href="#">NM_080588.1</a> , <a href="#">NM_080588.2</a> , <a href="#">NM_001199797.1</a> , <a href="#">NM_080589.1</a> , <a href="#">BC001746</a> , <a href="#">BC001746.1</a> , <a href="#">NM_001364877</a> , <a href="#">NM_001364878</a> , <a href="#">NM_001199797.2</a>
UniProt ID:	<a href="#">P35236</a>
Summary:	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This gene is preferentially expressed in a variety of hematopoietic cells, and is an early response gene in lymphokine stimulated cells. The non-catalytic N-terminus of this PTP can interact with MAP kinases and suppress the MAP kinase activities. This PTP was shown to be involved in the regulation of T cell antigen receptor (TCR) signaling, which was thought to function through dephosphorylating the molecules related to MAP kinase pathway. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2010]
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).