

Product datasheet for **TR318940**

PTPN20A Human shRNA Plasmid Kit (Locus ID 653129)

Product data:

Product Type:	shRNA Plasmids
Product Name:	PTPN20A Human shRNA Plasmid Kit (Locus ID 653129)
Locus ID:	653129
Synonyms:	bA142117.1; CT126; hPTPN20; PTPN20B
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	PTPN20A - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 653129). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001042387 , NM_001042389 , NM_001042390 , NM_001042391 , NM_001042392 , NM_001042393 , NM_001042394 , NM_001042395 , NM_001042396 , NM_001042397 , NM_001042397.1 , NM_001042392.1 , NM_001042391.1 , NM_001042389.1 , NM_001042394.1 , NM_001042393.1 , NM_001042395.1 , NM_001042390.1 , NM_001042387.1 , NM_001042396.1
Summary:	The product of this gene belongs to the family of classical tyrosine-specific protein tyrosine phosphatases. Many protein tyrosine phosphatases have been shown to regulate fundamental cellular processes and several are mutated in human diseases. Chromosome 10q contains a segmental duplication resulting in multiple copies of the protein tyrosine phosphatase, non-receptor type 20 gene. The two nearly identical copies are designated as PTPN20A and PTPN20B. A third copy is only partially duplicated and contains a pseudogene, designated as PTPN20C. This gene encodes the more centromeric copy, PTPN20A. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
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 .



[View online »](#)

**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).