

Product datasheet for **TL310063**

TCPTP (PTPN2) Human shRNA Plasmid Kit (Locus ID 5771)

Product data:

Product Type:	shRNA Plasmids
Product Name:	TCPTP (PTPN2) Human shRNA Plasmid Kit (Locus ID 5771)
Locus ID:	5771
Synonyms:	PTN2; PTPT; TC-PTP; TCELLPTP; TCPTP
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	PTPN2 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 5771). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_001207013 , NM_001308287 , NM_002828 , NM_080422 , NM_080423 , NM_080422.1 , NM_080422.2 , NM_080423.1 , NM_080423.2 , NM_002828.1 , NM_002828.3 , NM_001207013.1 , BC008244 , BC008244.1 , BC016727 , BC016727.1 , NM_002828.4
UniProt ID:	P17706
Summary:	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. Epidermal growth factor receptor and the adaptor protein Shc were reported to be substrates of this PTP, which suggested the roles in growth factor mediated cell signaling. Multiple alternatively spliced transcript variants encoding different isoforms have been found. Two highly related but distinctly processed pseudogenes that localize to chromosomes 1 and 13, respectively, have been reported. [provided by RefSeq, May 2011]
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 .

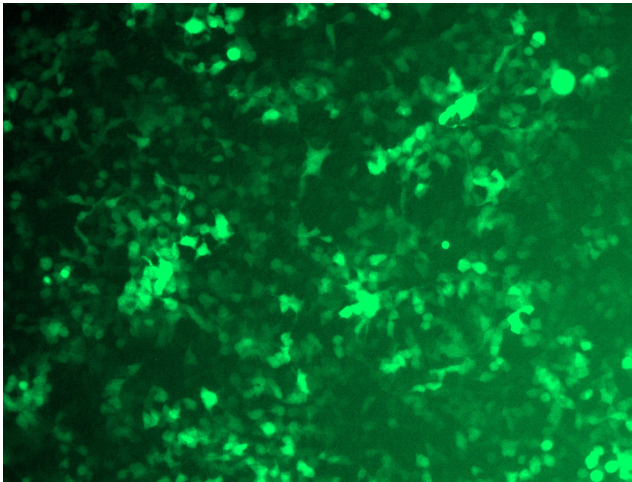


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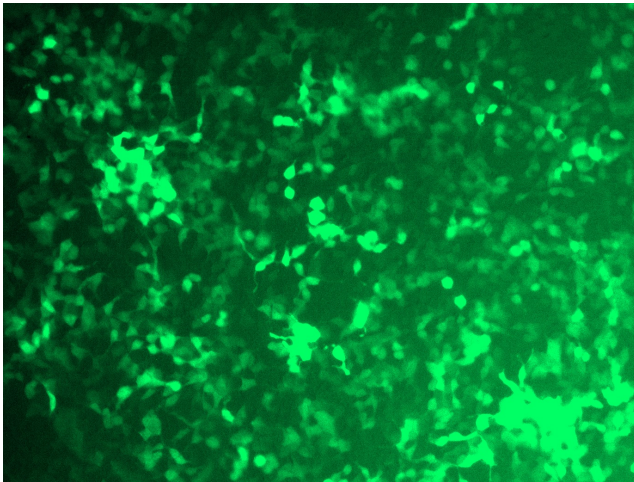
**Performance
Guaranteed:**

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.

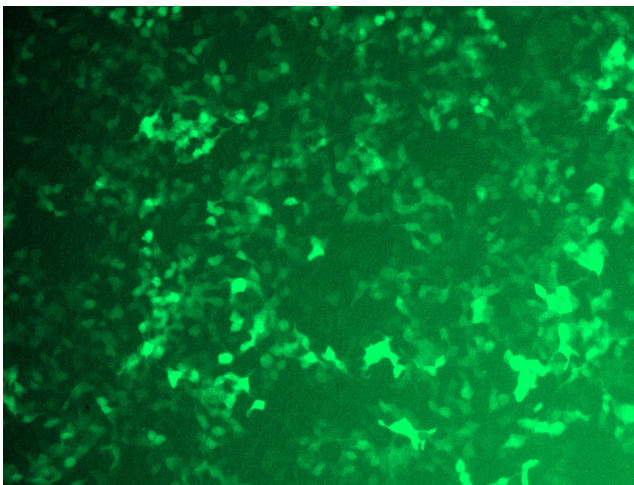
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

Product images:

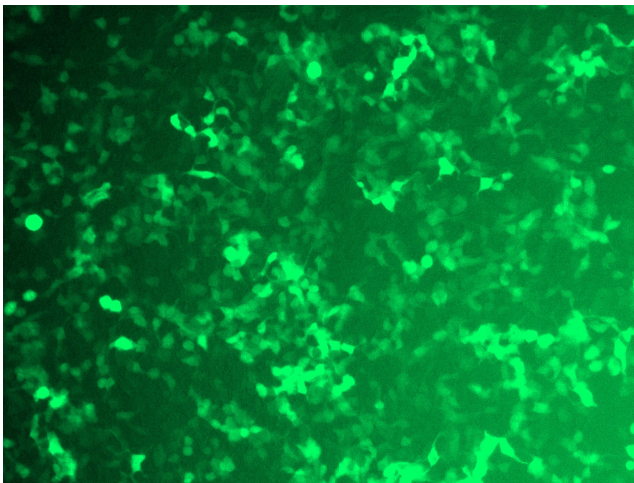
GFP signal was observed under microscope at 48 hours after transduction of TL310063A virus into HEK293 cells. TL310063A virus was prepared using lenti-shRNA TL310063A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL310063B virus into HEK293 cells. TL310063B virus was prepared using lenti-shRNA TL310063B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL310063C] virus into HEK293 cells. [TL310063C] virus was prepared using lenti-shRNA [TL310063C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL310063D] virus into HEK293 cells. [TL310063D] virus was prepared using lenti-shRNA [TL310063D] and [TR30037] packaging kit.