

Product datasheet for **TL302197V**

PTPRD Human shRNA Lentiviral Particle (Locus ID 5789)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	PTPRD Human shRNA Lentiviral Particle (Locus ID 5789)
Locus ID:	5789
Synonyms:	HPTP; HPTPD; HPTPDELTA; PTPD; R-PTP-delta; RPTPDELTA
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	PTPRD - Human shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10 ⁷ TU/ml.
RefSeq:	NM_001040712 , NM_001171025 , NM_002839 , NM_130391 , NM_130392 , NM_130393 , NM_130392.1 , NM_130392.2 , NM_130392.3 , NM_002839.2 , NM_002839.3 , NM_001040712.2 , NM_130393.1 , NM_130393.2 , NM_130393.3 , NM_130391.1 , NM_130391.2 , NM_130391.3 , NM_001171025.1 , BC028038 , BC037801 , BC045786 , BC106713 , BC106714 , BC106715 , BC106716 , BM680342 , NM_130391.4 , NM_001171025.2 , NM_002839.4
UniProt ID:	P23468
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 PTP contains an extracellular region, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region of this protein is composed of three Ig-like and eight fibronectin type III-like domains. Studies of the similar genes in chicken and fly suggest the role of this PTP is in promoting neurite growth, and regulating neurons axon guidance. Multiple alternatively spliced transcript variants of this gene have been reported. A related pseudogene has been identified on chromosome 5. [provided by RefSeq, Jan 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 techsupport@origene.com . If you need a special design or shRNA sequence, please utilize our custom shRNA service .

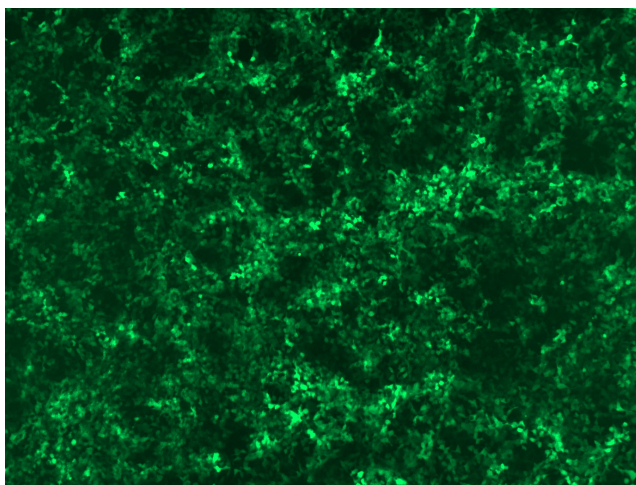


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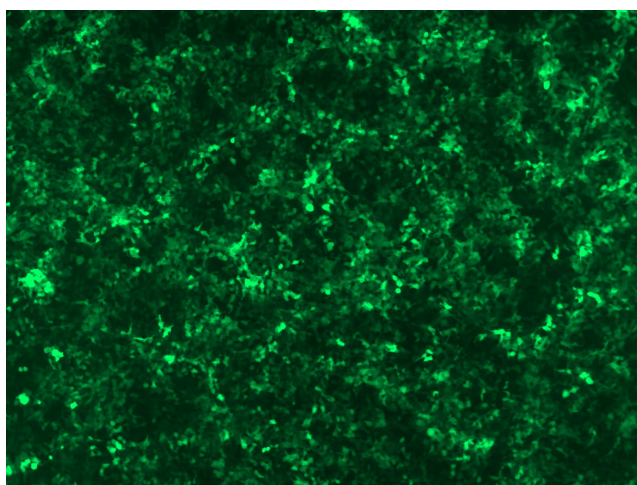
**Performance
Guaranteed:**

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.

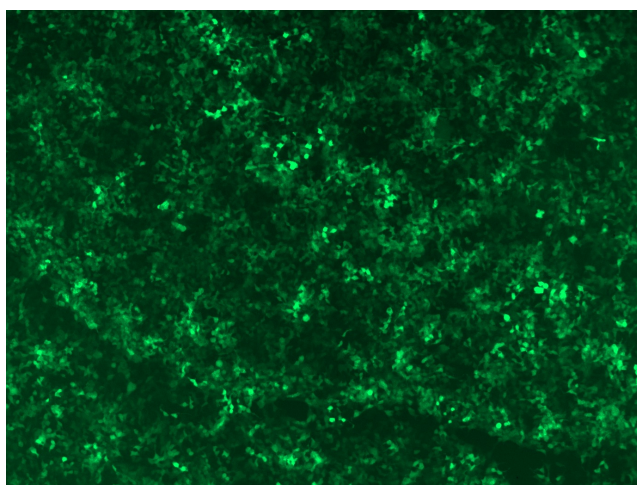
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating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

Product images:

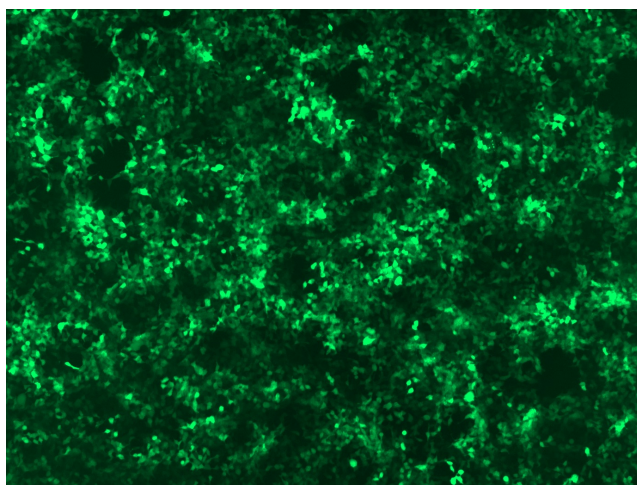
GFP signal was observed under microscope at 48 hours after transduction of TL302197A virus into HEK293 cells. TL302197A virus was prepared using lenti-shRNA TL302197A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL302197B virus into HEK293 cells. TL302197B virus was prepared using lenti-shRNA TL302197B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL302197C] virus into HEK293 cells. [TL302197C] virus was prepared using lenti-shRNA [TL302197C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL302197D] virus into HEK293 cells. [TL302197D] virus was prepared using lenti-shRNA [TL302197D] and [TR30037] packaging kit.