

## Product datasheet for **RC213896L2V**

### **SHP1 (PTPN6) (NM\_002831) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	SHP1 (PTPN6) (NM_002831) Human Tagged ORF Clone Lentiviral Particle
Symbol:	SHP1
Synonyms:	HCP; HCPH; HPTP1C; PTP-1C; SH-PTP1; SHP-1; SHP-1L; SHP1
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_002831
ORF Size:	1785 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC213896).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_002831.3</a>
RefSeq Size:	2253 bp
RefSeq ORF:	1788 bp
Locus ID:	5777
UniProt ID:	<a href="#">P29350</a>
Cytogenetics:	12p13.31
Domains:	Y_phosphatase, SH2, PTPc_motif
Protein Families:	Druggable Genome, Phosphatase, Stem cell - Pluripotency



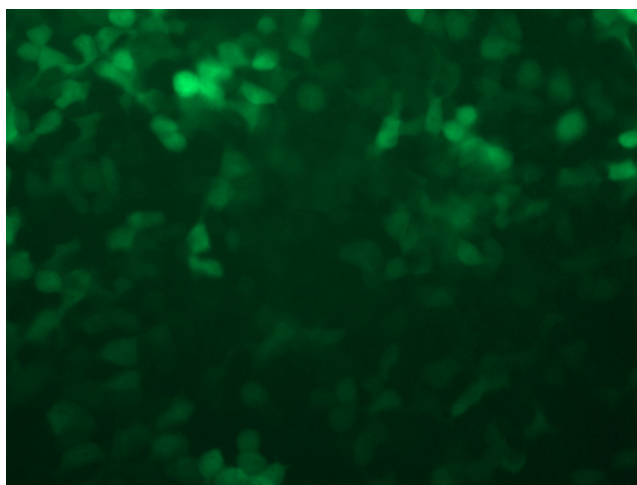
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**Protein Pathways:** Adherens junction, B cell receptor signaling pathway, Jak-STAT signaling pathway, Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway

**MW:** 67.4 kDa

**Gene 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. N-terminal part of this PTP contains two tandem Src homolog (SH2) domains, which act as protein phospho-tyrosine binding domains, and mediate the interaction of this PTP with its substrates. This PTP is expressed primarily in hematopoietic cells, and functions as an important regulator of multiple signaling pathways in hematopoietic cells. This PTP has been shown to interact with, and dephosphorylate a wide spectrum of phospho-proteins involved in hematopoietic cell signaling. Multiple alternatively spliced variants of this gene, which encode distinct isoforms, have been reported. [provided by RefSeq, Jul 2008]

### Product images:



[RC213896L2] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC213896L2V particle to overexpress human PTPN6-mGFP fusion protein.