

## Product datasheet for RC200728L3V

## OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

## SHP1 (PTPN6) (NM\_080548) Human Tagged ORF Clone Lentiviral Particle

**Product data:** 

**Product Type:** Lentiviral Particles

Product Name: SHP1 (PTPN6) (NM\_080548) Human Tagged ORF Clone Lentiviral Particle

Symbol: SHP<sup>2</sup>

Synonyms: HCP; HCPH; HPTP1C; PTP-1C; SH-PTP1; SHP-1; SHP-1L; SHP1

Mammalian Cell

Selection:

Puromycin

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

Tag: Myc-DDK
ACCN: NM 080548

ORF Size: 1791 bp

**ORF Nucleotide** 

The ORF insert of this clone is exactly the same as(RC200728).

Sequence:

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. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**RefSeg:** NM 080548.3

 RefSeq Size:
 2234 bp

 RefSeq ORF:
 1794 bp

 Locus ID:
 5777

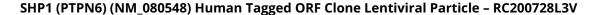
 UniProt ID:
 P29350

 Cytogenetics:
 12p13.31

**Domains:** Y\_phosphatase, SH2

**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: 67.7 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]