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# Product datasheet for RC220029L4V

## SHP2 (PTPN11) (NM_002834) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | SHP2 (PTPN11) (NM_002834) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | SHP2 |
| **Synonyms:** | BPTP3; CFC; JMML; METCDS; NS1; PTP-1D; PTP2C; SH-PTP2; SH-PTP3; SHP2 |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-mGFP-P2A-Puro (PS100093) |
| **Tag:** | mGFP |
| **ACCN:** | NM_002834 |
| **ORF Size:** | 1779 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(RC220029). |
| **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. |
| **RefSeq:** | NM_002834.3 |
| **RefSeq Size:** | 6300 bp |
| **RefSeq ORF:** | 1782 bp |
| **Locus ID:** | 5781 |
| **UniProt ID:** | Q06124 |
| **Cytogenetics:** | 12q24.13 |
| **Protein Families:** | Druggable Genome, Phosphatase |

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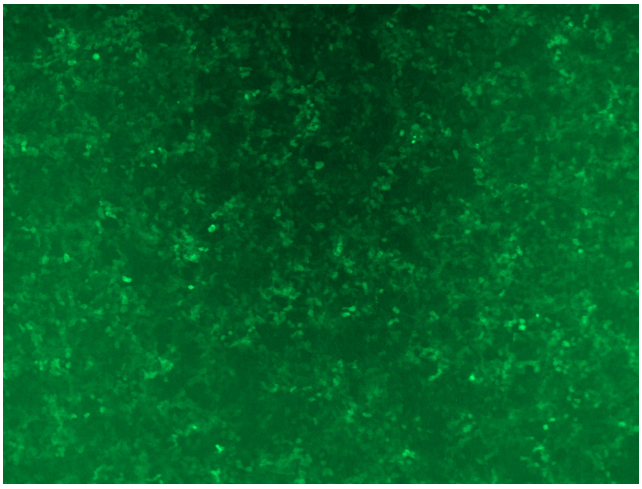
**Protein Pathways:** Adipocytokine signaling pathway, Chronic myeloid leukemia, Epithelial cell signaling in Helicobacter pylori infection, Jak-STAT signaling pathway, Leukocyte transendothelial migration, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Renal cell carcinoma

**MW:** 67.8 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. This PTP contains two tandem Src homology-2 domains, which function as phospho-tyrosine binding domains and mediate the interaction of this PTP with its substrates. This PTP is widely expressed in most tissues and plays a regulatory role in various cell signaling events that are important for a diversity of cell functions, such as mitogenic activation, metabolic control, transcription regulation, and cell migration. Mutations in this gene are a cause of Noonan syndrome as well as acute myeloid leukemia. [provided by RefSeq, Aug 2016]

## Product images:



[RC220029L4] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC220029L4V particle to overexpress human PTPN11-mGFP fusion protein.

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