

Product datasheet for RC220029L2V

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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: PTPN11

Synonyms: BPTP3; CFC; JMML; METCDS; NS1; PTP-1D; PTP2C; SH-PTP2; SH-PTP3; SHP2

Mammalian Cell

Selection:

None

Vector: pLenti-C-mGFP (PS100071)

Tag: mGFP

ACCN: NM_002834 **ORF Size:** 1779 bp

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC220029).

OTI Disclaimer:

Cytogenetics:

Sequence:

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 002834.3

 RefSeq Size:
 6300 bp

 RefSeq ORF:
 1782 bp

 Locus ID:
 5781

 UniProt ID:
 Q06124

Protein Families: Druggable Genome, Phosphatase

12q24.13





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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]