

Product datasheet for SC333301

SHP2 (PTPN11) (NM_080601) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHP2 (PTPN11) (NM_080601) Human Untagged Clone
Tag:	Tag Free
Symbol:	SHP2
Synonyms:	BPTP3; CFC; JMML; METCDS; NS1; PTP-1D; PTP2C; SH-PTP2; SH-PTP3; SHP2
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC333301 representing NM_080601. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGACATCGCGGAGATGGTTTCACCCAAATATCACTGGTGTGGAGGCAGAAAACCTACTGTTGACAAGA
GGAGTTGATGGCAGTTTTTTGGCAAGGCCTAGTAAAAGTAACCCTGGAGACTTCACACTTTCCGTTAGA
AGAAATGGAGCTGCACCCACATCAAGATTCAGAACACTGGTACTACTATGACCTGTATGGAGGGGAG
AAATTTGCCACTTTGGCTGAGTTGGTCCAGTATTACATGGAACATCACGGGCAATTTAAAGAGAAGAAAT
GGAGATGTCATTGAGCTTAAATATCCTCTGAACCTGTGCAGATCCTACCTCTGAAAGGTGGTTTCATGGA
CATCTCTCTGGGAAAGAAGCAGAGAAATTTAACTGAAAAGGAAAACATGGTAGTTTTCTTGTACGA
GAGAGCCAGAGCCACCCTGGAGATTTTGTCTTTCTGTGCGCACTGGTGTGACAAGGGGAGAGCAAT
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CGAGAATAAGCAAATAGCTGAGACCACAGATAAAGTCAAACAAGGCTTTTGGGAAGAAATTTGAGACA
CTACAACAACAGGAGTGCAAACCTCTACAGCCGAAAAGAGGGTCAAAGGCAAGAAAACAAAAACAAA
AATAGATATAAAAAACATCCTGCCCTTTGATCATAACCAGGGTTGCTCTACACGATGGTATCCCAATGAG
CCTGTTTCAGATTACATCAATGCAAATATCATCATGCCTGAATTTGAAACCAAGTCAACAATTTCAAAG
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AAATACTGGCCTGATGAGTATGCTCTAAAAGAATATGGCGTCATGCGTGTAGGAACGTCAAAGAAAAGC
GCCGCTCATGACTATACGCTAAGAGAACTTAACTTTCAAAGGTTGGACAAGGGAATACGGAGAGAACG
GTCTGGCAATACCACTTTTCGGACCTGGCCGACCACGGCGTGCCACGACCCCTGGGGGCGTGCTGGAC
TTCCTGGAGGAGTGCACCATAAGCAGGAGAGCATCATGGATGCAGGGCCGGTCTGGTGCCTGCAGG
TGA

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Restriction Sites:	Sgfl-MluI
ACCN:	NM_080601
Insert Size:	1383 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_080601.1
RefSeq Size:	2069 bp
RefSeq ORF:	1383 bp
Locus ID:	5781
UniProt ID:	Q06124
Cytogenetics:	12q24.13
Domains:	Y_phosphatase, SH2
Protein Families:	Druggable Genome, Phosphatase
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:	52.8 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 3' UTR and coding sequence compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1.</p>