

Product datasheet for **SC112718**

SHP2 (PTPN11) (NM_002834) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHP2 (PTPN11) (NM_002834) Human Untagged Clone
Tag:	Tag Free
Symbol:	SHP2
Synonyms:	BPTP3; CFC; JMML; METCDS; NS1; PTP-1D; PTP2C; SH-PTP2; SH-PTP3; SHP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC112718 sequence for NM_002834 edited (data generated by NextGen Sequencing)

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ATGACATCGCGGAGATGGTTTCACCCAAATATCACTGGTGTGGAGGCAGAAAACCTACTG
TTGACAAGAGGAGTTGATGGCAGTTTTTTGGCAAGGCCTAGTAAAAGTAAACCCTGGAGAC
TTCACACTTTCCGTTAGAAGAAATGGAGCTGTCACCCACATCAAGATTCAGAACACTGGT
GATTACTATGACCTGTATGGAGGGGAGAAATTTGCCACTTTGGCTGAGTTGGTCCAGTAT
TACATGGAACATCACGGCAATTAAGAGAGAAGAATGGAGATGTCATTGAGCTTAAATAT
CCTCTGAACTGTGCAGATCCTACCTCTGAAAGGTGGTTTCATGGACATCTCTCTGGGAAA
GAAGCAGAGAAATTATTAAGTAAAAAGGAAAACATGGTAGTTTTCTTGTACGAGAGAGC
CAGAGCCACCCTGGAGATTTTGTCTTTCTGTGCGCACTGGTGTGACAAAGGGGAGAGC
AATGACGGCAAGTCTAAAGTGACCCATGTTATGATTTCGCTGTCAGGAACTGAAATACGAC
GTTGGTGGAGGAGAACGGTTTATTCTTTGACAGATCTTGTGGAACATTATAAGAAGAT
CCTATGGTGGAAACATTGGGTACAGTACTACAACCTCAAGCAGCCCTTAACACGACTCGT
ATAAATGCTGCTGAAATAGAAAGCAGAGTTCGAGAATAAGCAAATTAGCTGAGACCACA
GATAAAGTCAAACAAGGCTTTTGGGAAGAATTTGAGACTACAACAACAGGAGTGCAAA
CTTCTCTACAGCCGAAAAGAGGGTCAAAGGCAAGAAAACAAAAACAAAAATAGATATAAA
AACATCCTGCCCTTTGATCATAACAGGGTTGTCCTACACGATGGTGTATCCCAATGAGCCT
GTTTCAGATTACATCAATGCAAAATATCATCATGCCTGAATTTGAAACCAAGTGAACAAT
TCAAAGCCCAAAAAGAGTTACATTGCCACACAAGGCTGCCTGCAAAACACGGTGAATGAC
TTTTGGCGGATGGTGTCCAAGAAAACCTCCCGAGTGATTGTATGACAACGAAAGAAGTG
GAGAGAGGAAAGAGTAAATGTGTCAAATACTGGCCTGATGAGTATGCTCTAAAAGAATAT
GGCGTCATGCGTGTAGGAACGTCAAAGAAAGCGCCGCTCATGACTATACGCTAAGAGAA
CTTAAACTTTCAAAGGTTGGACAAGGGAATACGGAGAGAACGGTCTGGCAATACCACTTT
CGGACCTGGCCGACACGGCGTGCCACAGCACCCTGGGGCGTGTGGACTTCCCTGGAG
GAGGTGCACCATAAAGCAGGAGAGCATCATGGATGCAGGGCCGGTGTGGTGCAGTGCAGT
GCTGGAATTGGCCGACAGGGACGTTTATTGTGATTGATATTCTTATTGACATCATCAGA
GAGAAAGGTGTTGACTGCGATATTGACGTTCCCAAAACCATCCAGATGGTGCAGTCTCAG
AGGTCAAGGATGGTCCAGACAGAAGCACAGTACCGATTTATCTATATGGCGGTCCAGCAT
TATATTGAAACACTACAGCGCAGGATTGAAGAAGAGCAGAAAAGCAAGAGGAAAGGGCAC
GAATATACAAATATTAAGTATTCTTAGCGGACCAGACGAGTGGAGATCAGAGCCCTCTC
CCGCTTGTACTCAACGCCACCCTGTGCAGAAATGAGAGAAGACAGTGTAGAGTCTAT
GAAAACGTGGCCCTGATGCAACAGCAGAAAAGTTTCAGATGA
    
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Clone variation with respect to NM_002834.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002834 unedited
AAACGCAATTCGCACGAGGAGCTGCACATTCTCGGGTATCCCCAGGCCTGGTAGGGGT
CTGTGCGCGGCCGGATGGCTCTGCCCGCGTCCGGTCCCAGCGGGCCTCCCTCGGGCCA
GCCCGATGTGACCGAGCCAGCGGAGCCTGAGCAAGGAGCGGGTCCGTCGCGGAGCCTTA
GTGCGTTAGGAACATGACATCGCGTATATGGGGCACCCAAATATCACTGGTGCAGGAGC
AGAAAACCTACTGTTGACGAGAGGAGTTGATGGCACTTTTTTTGGCAAGGCCTAATAAAG
TAACCCTGGATACTTCACACTTTCCGTTAGAAGAAATGGAGCTGTCACCCACATGAAGAT
TCATAACACTGGTACTATGACCTGTATGGAGGGGAGAAATTTGCCACTTTGGCTGA
ATTGGTCCAGTATTACATGGAACATCACGGCAATTAAGAGAGAAGAATGGAGATGTCAT
TGATCTTAAATATCCTCTGAACTGTGCAGATCCTACCTCTGAAAGGTGGTTTCATGGACA
TCTCTCTGGGAGAGAAGCAGAGAAATTATTAAGTAAAAAGGAAAACATGGTAGGTTTCT
TGTAAGAGAGCCATACCCTCCCTGGAGATTTTGGTCTTTCTGTGCGCACTGGTGTATCA
CATACGGGAGAGCAATGACGGCAAGTCTAAAGTGACCCATGTTATGATTTCGCTGACAGGA
ACTGAAATACCACGTTGGTGGAGGAGAACGTTTATTCTTTGACAGATCTTGTGGAACAT
TATAAGAAAGATCCTATGGTGAACAATGGGTACAGTCTACAACCTCAAGCAGCCCTT
AACACGACTGGTATAAATGCTGCTGAAATGGACA
    
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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

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]
Transcript Variant: This variant (1) encodes isoform 1.