

Product datasheet for **SC117638**

PSTPIP1 (NM_003978) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSTPIP1 (NM_003978) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSTPIP1
Synonyms:	CD2BP1; CD2BP1L; CD2BP1S; H-PIP; PAPAS; PSTPIP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003978, the custom clone sequence may differ by one or more nucleotides

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ATGATGCCCCAGCTGCAGTTCAAAGATGCCTTTTGGTGCAGGGACTTCACAGCCCACACGGGCTACGAGG
TGCTGCTGCAGCGGCTTCTGGATGGCAGGAAGATGTGCAAAGACATGGAGGAGCTACTGAGGCAGAGGGC
CCAGGGCGGAGGAGCGGTACGGGAAGGAGCTGGTGCAGATCGCACGGAAGGCAGGTGGCCAGACGGAGATC
AACTCCCTGAGGGCCTCCTTTGACTCCTTGAAGCAGCAAATGGAGAATGTGGGCAGCTCACACATCCAGC
TGGCCCTGACCCTGCGTGAGGAGCTGCGGAGTCTCGAGGAGTTTCGTGAGAGGCAGAAGGAGCAGAGGAA
GAAGTATGAGGCCGTATGGACCGGTCCAGAAGAGCAAGCTGTCGCTCTACAAGAAGGCCATGGAGTCC
AAGAAGACATACGAGCAGAAGTGCCGGGACGCGGACGACGCGGAGCAGGCCTTCGAGCGCATTAGCGCCA
ACGGCCACCAGAAGCAGGTGGAGAAGAGTCAGAAACAAAGCCAGGCAGTGAAGGACTCGGCCACCGAGGC
AGAGCGGGTATACAGGCAGAGCATTGCGCAGCTGGAGAAGGTCCGGGCTGAGTGGGAGCAGGAGCACCGG
ACACCTGTGAGGCCTTTTCAGCTGCAAGAGTTTGACCGGCTGACCATTCTCCGCAACGCCCTGTGGGTGC
ACAGCAACCAGCTCTCCATGCAGTGTGTCAAGGATGATGAGCTCTACGAGGAAGTGCAGGCTGACGCTGGA
AGGCTGCAGCATAGACGCCGACATCGACAGTTTCATCCAGGCCAAGAGCACGGGCACAGAGCCCCCGCT
CCGGTGCCTACCAGAACTATTACGATCGGGAGGTACCCCGCTGACCAGCAGCCCTGGCATAACAGCCGT
CCTGCGCATGATAAAGAGGTTCTTGACTGCTGCACGGAAGTCCAAAGACCATTTCGTTGGCAGCTTC
TGCTGCGTCCACAGAGACCCTGACCCCAACCCCGAGCGGAATGAGGGTGTCTACACAGCCATCGCAGTG
CAGGAGATACAGGAAACCCGGCCTCACCAGCCAGGAGTACCGGGCGCTCTACGATTATACAGCGCAGA
ACCCAGATGAGCTGGACCTGTCCGCGGGAGACATCCTGGAGGTGATCCTGGAAGGGGAGGATGGCTGGT
GACTGTGGAGAGGAACGGGCAGCGTGGCTTCGTCCTGTTCTACCTGGAGAAGCTTTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003978 unedited
 AGGATTTTGTAAACGACTTACTTATAGGGCGGCCGGAATTCGCACGAGCATGGCCCTT
 CATCCGGGGCTGCCCTGGCTGGACAGCCCCCAGAGCACAGCTGTGTCTGCTCCCAGACT
 ATGGGCTCCTTGAGGGCAGGACCTGGTTTGGGTCCCAGAGCAGCCAGGGTTTGATGAATG
 ACAGATGCCCTAGACCTGGAAGCTCCTCTCTGGCTCGTGGCTGCCTTCTGAGTGTTCAG
 ACGGCGCCGGCCGGGAAGGGGGGCTGGCCAGCCCTGCCAGGACTGGGACGCTGCTGCT
 GGCGCTGGCCCTCCATCAGGCCAGCCTGTGGCAGGAGAGTGAGCTTTGCCGCGGACAGC
 GCCTGAGGATGATGCCCCAGCTGCAGTTCAAAGATGCCTTTTGGTGCAGGGACTTCACAG
 CCCACACGGGCTACGAGGTGCTGCTGCACGGCTTCTGGATGGCAGGAAGATGTGCAAAG
 ACATGGAGGAGCTACTGAGGCAGAGGGCCAGGCGGAGGAGCGGTACGGGAAGGAGCTGG
 TGCAGATCGCACGGAAGGCAGGTGGCCAGACGGAGATCAACTCCCTGAGGGCCTCCTTTG
 ACTCCTTGAAGCAGCAAATGGAGAATGTGGCAGCTCACACATCCAGCTGGCCCTGACCC
 TGCGTGAGGAGCTGCGGAGTCTCGAGGAGTTTCGTGAGAGGCAGAAGGAGCAGAGGAAGA
 AGTATGAGCCGTCATGGACCGGTCCAGAAGAGCAAGCTGTGCTCTANCAGAAGCCAT
 GGAGTCCAAGAAGAATACGAGCANAAGTCCGGGACGCGGACGACGNCGNAGCAGCCTTC
 GAGCGCATTAGCCCAACGGNACCAGAAAGCAGTGGAGAAGAGTCAGAACAAAGCCAGC
 AGTGCAAGTACTTCGNCCACCGAGCAGAGCGGGTATACAGNCANAGCATGCGCACTTGA
 GAAAGTCCGGCCTGANTGGGAGCAGNAGNACCGTACCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003978 unedited
 CGGGCCCCCCCCACCCTCCTTCCCCNCCGNAATGGTGAACCCGGCCGATTTTANGAT
 CGGTTGAACAAA
 CGCACTCCTTTATTCCTGGGAAACCACAGGCTCCCTTTTGGGGCTGGGGGACCCTTGG
 TTTTGGGCCCTCACAAAGGGGGACAGTGTGGGGCACTGCTGGCTCCACTGGCAGGGCA
 GGTCCCAAGGGGCTCCTGGCCCTTCTCAAAGCTTTTCCAGGTAGGAACCAGGGACCAAA
 CCCCCCTGCCGTTCTTTCCACAGTCCACCAGCATTCTCCCCTTTCAGGAACACCTCC
 AGGATGTCTCCCGCGGACAGGGCCAACCTATTTGGGTTCTGCCCTGTATAATCGTAAAGC
 GCCCGGACTCCTGGGCTGGGGAGGCCCGGTTCCCTGTATCTCTGCACTGGGATGGCT
 GGGTAAACACCCTTATCCCTCGGGGTGGGGGCAGGGTCTTAACAAAACTGCCAAC
 CAAAGGGTCTTGGGACTCCGGGACAAAACCAAAAAACCTTTTTTTATGCCCCAGGAACG
 GTGTTTTCCACGGCTGTTTGTACCGGGGGGAACCTCCCAACGTAATAATTTTGGGAAGC
 ACCCGAAACCGGGGCCCTTGGGCCCCCGCTTTGGGCCCTGAAAAAATGTCCAATGTC
 GCGGTTTTTTCTGAAACCTTTTCAAGGTGAAGCCCCACTTTCCCTGAAAAAGTTTTAT
 ATCTCTGACCACATTTATTGAAAACTTTTTCTTTGGCCCCCACAGGGCCTTTCCGG
 AAAAAGGGAAACCCGGCCAACTTTTTGTACTTAGAAGGGCTCCACAGGGGGTCCGGTG
 TTTTTGTTTCCATATAAACCGGGACTCTTTACAAATGGGCAAAGTTTTTGGTCTTGT
 AACCCCTTTTTGCCTGGGGGCCGAACCTTCCACACGCTGGGTTTTTTTCGACACTT
 TTTCCCGGCTCTGTGGGGCCCTG

Restriction Sites:

NotI-NotI

ACCN:

NM_003978

Insert Size:

1830 bp

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:

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_003978.2](#), [NP_003969.2](#)

RefSeq Size: 1781 bp

RefSeq ORF: 1251 bp

Locus ID: 9051

UniProt ID: [O43586](#)

Cytogenetics: 15q24.3

Domains: FCH, SH3

Protein Families: Druggable Genome

Protein Pathways: NOD-like receptor signaling pathway

Gene Summary: This gene encodes a cytoskeletal protein that is highly expressed in hemopoietic tissues. This protein functions via its interaction with several different proteins involved in cytoskeletal organization and inflammatory processes. It binds to the cytoplasmic tail of CD2, an effector of T cell activation and adhesion, downregulating CD2-triggered adhesion. It binds PEST-type protein tyrosine phosphatases (PTP) and directs them to c-Abl kinase to mediate c-Abl dephosphorylation, thereby, regulating c-Abl activity. It also interacts with pyrin, which is found in association with the cytoskeleton in myeloid/monocytic cells and modulates immunoregulatory functions. Mutations in this gene are associated with PAPA (pyogenic sterile arthritis, pyoderma gangrenosum, and acne) syndrome. It is hypothesized that the disease-causing mutations compromise physiologic signaling necessary for the maintenance of a proper inflammatory response. [provided by RefSeq, Mar 2016]