

## Product datasheet for **SC322259**

### **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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for SC322259  
 GCCTCCCACCCAGGGCTGGCATCCCTGCTCCCTGCCCTGGGTCCCAGACTGTGTCCTCCA  
 TCACCGCAGGGTCCGGTGAGGGGCTGGGCTGGACACCAGGGCCCGCCCTCCCATCACTGAG  
 CTCCACTCCTTCTCATTTTTGCTGCTGATTCTAGCCCCAAACAAAACAGTTGAGCTTTT  
 TCCTCCCCTCAGAAGCTCCTCTCTGGCTCGTGGCTGCCTTCTGAGTGTTCAGACGGCGC  
 CGGCCGGGAAGGGGGGCTGGGCCAGCCCTGCCAGGACTGGGACGCTGCTGCTGGCGCT  
 GGCCCTCCATCAGGCCAGCCTGTGGCAGGAGAGTGAGCTTTGCCGCGGCAGACGCCTGAG  
 GATGATGCCCCAGCTGCAGTTCAAAGATGCCTTTTGGTGCAAGGACTTCACAGCCACAC  
 GGGCTACGAGGTGCTGCTGCAGCGGCTTCTGGATGGCAGGAAGATGTGCAAGACATGGA  
 GGAGCTACTGAGGCAGAGGGCCAGGCGGAGGACGGTACGGGAAGGAGCTGGTGCAGAT  
 CGCACGGAAGGCAGGTGGCCAGACGGAGATCAACTCCCTGAGGGCCTCCTTTGACTCCTT  
 GAAGCAGCAAATGGAGAATGTGGGCAGCTCACACATCCAGCTGGCCCTGACCCTGCGTGA  
 GGAGCTGCGGAGTCTCGAGGAGTTTCGTGAGAGGCAGAAGGAGCAGAGGAAGAAGTATGA  
 GGCCGTATGGACCGGGTCCAGAAGAGCAAGCTGTCGCTCTACAAGAAGGCCATGGAGTC  
 CAAGAAGACATACGAGCAGAAGTCCCGGGACCGGACGACGCGGAGCAGGCCCTTCGAGCG  
 CATTAGCGCCAACGGCCACCAGAAGCAGGTGGAGAAGAGTCAGAACAAGCCAGGCAGTG  
 CAAGGACTCGGCCACCGAGGCAGAGCGGTATACAGGCAGAGCATTGCGCAGCTGGAGAA  
 GGTCCGGGCTGAGTGGGAGCAGGAGCACCGGACCCTGTGAGGCCTTTTCAGCTGCAAGA  
 GTTTGACCGGCTGACCATTCTCCGCAACGCCCTGTGGGTGCACAGCAACCAGCTCCTCAT  
 GCAGTGTGTCAAGGATGATGAGCTCTACGAGGAAGTCCGGCTGACGCTGGAAGGCTGCAG  
 CATAGACGCCGACATCGACAGTTTCATCCAGGCCAAGAGCACGGGCACAGAGCCCCCGC  
 TCCGGTGCCCTACCAGAACTATTACGATCGGGAGGTCACCCCGCTGACCAGCAGCCCTGG  
 CATAACGCCGTCCTGCGGCATGATAAAGAGGTTCTCTGGACTGCTGCACGGAAGTCCCAA  
 GACCACTTCGTTGGCAGCTTCTGCTGCGTCCACAGAGACCCTGACCCCCACCCCGGAGCG  
 GAATGAGGGTGTCTACACAGCCATCGCAGTGCAGGAGATACAGGGAACCCGGCCTCACC  
 AGCCCAGGAGTACCGGGCGCTCTACGATTATACAGCGCAGAACCAGATGAGCTGGACCT  
 GTCCGCGGGAGACATCCTGGAGGTGATCCTGGAAGGGGAGGATGGCTGGTGGACTGTGGA  
 GAGGAACGGGCAGCGTGGCTTCGTCCCTGGTTCCTACCTGGAGAAGCTTTGAGGAAGGGC  
 CAGGAGCCCTTCGGACCTGCCCTGCCAGTGGAGCCAGCAGTCCCCCAGCACTGTCCCC  
 ACCTTGCTAGGGCCAGAACAAGCGTCCCCCAGCCCCGAGAGGGAGCCTGTCGCTCTCC  
 AGGGAATAAAGGAGTGCCTTCTGTTCAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_003978

**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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_003978.2</a></u> , <u><a href="#">NP_003969.2</a></u>
<b>RefSeq Size:</b>	1781 bp
<b>RefSeq ORF:</b>	1251 bp
<b>Locus ID:</b>	9051
<b>UniProt ID:</b>	<u><a href="#">O43586</a></u>
<b>Cytogenetics:</b>	15q24.3
<b>Domains:</b>	FCH, SH3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	NOD-like receptor signaling pathway
<b>Gene Summary:</b>	<p>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]</p>