

Product datasheet for **SC118362**

PTPN12 (NM_002835) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN12 (NM_002835) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPN12
Synonyms:	PTP-PEST; PTPG1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_002835 edited
GCGGCCGCGAATTCGGCACGAGGGCCGGGGGACGCGGGAGGATGGAGCAAGTGGAGATC
CTGAGGAAATTCATCCAGAGGGTCCAGGCCATGAAGAGTCTGACCACAATGGGGAGGAC
AACTTCGCCCGGGACTTCATGCGGTTAAGAAGATTGTCTACCAATATAGAACAGAAAAG
ATATATCCACAGCCACTGGAGAAAAAGAAGAAAATGTTAAAAAGAACAGATACAAGGAC
ATACTGCCATTTGATCACAGCCGAGTTAAATTGACATTAAGACTCCTTCACAAGATTCA
GACTATATCAATGCAAAATTTTATAAAGGGCGTCTATGGGCCAAAAGCATATGTAGCAACT
CAAGGACCTTTAGCAAATACAGTAATAGATTTTTGGAGGATGATATGGGAGTATAATGTT
GTGATCATTGTAATGGCCTGCCGAGAATTTGAGATGGGAAGGAAAAAATGTGAGCGCTAT
TGGCCTTTGTATGGAGAAGACCCATAACGTTTGCACCATTTAAAATTTCTTGTGAGGAT
GAACAAGCAAGAACAGACTACTTCATCAGGACACTCTTACTTGAATTTCAAATGAATCT
CGTAGGCTGTATCAGTTTCATTATGTGAAGTGGCCAGACCATGATGTTCCCTTCATCATT
GATTCTATTCTGGACATGATAAGCTTAATGAGGAAATATCAAGAACATGAAGATGTTCT
ATTTGTATTCATTGCAGTGCAGGCTGTGGAAGAACAGGTGCCATTTGTCCATAGATTAT
ACGTGGAATTTACTAAAAGCTGGGAAAAACCAGAGGAATTTAATGTATTTAATTTAATA
CAAGAAATGAGAACACAAAGGCATTCTGCAGTACAACAAGGAGCAATATGAACTTGTT
CATAGAGCTATTGCCAACTGTTTGAAAAACAGCTACAACATATGAAATTCATGGAGCT
CAGAAAATTTGCTGATGGAGTGAATGAAATTAACACTGAAAACATGGTCAGCTCCATAGAG
CCTGAAAAACAAGATTCTCTCTCCAAAACCACCAAGGACCCGAGTTGCCTTGTGAA
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ACACCTTCTCCCCTTCAGCTTTTCCAACAGTCACTACTGTGTGGCAGGACAATGATAGA
TACCATCCAAAGCCAGTGTTCATATGGTTTCATCAGAACAACATTCAGCAGACCTCAAC
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GCTTCACCTTGTATAGCTGATAAAATCTCTAAGCCACAGGAATTAAGTTCAGATCTAAAT
GTCGGTGATACTTCCCAGAATCTTGTGTGGACTGCAGTGTAAACACAATCAAACAAGTT
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CCTCTTGATGAGAAAGGACATGTAACTGGTCAATTCATGGACCTGAAAATGCCATACCC
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AGTTTAAACCAAGTCTACAACACAAGTTGAAACACCTGATCTTGTGGATCATGATAAC
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GCAAGTGCCACAGTTTCTGCTGCCACTAGTACTGAAAGCATTTCTACTAGGAAAGTATTG
CCAATGTCCATTGCTAGACATAATATAGCAGGAACAACACATTCAGGTGCTGAAAAAGAT
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TTAGCAAGTGAACATAATACACCTGTAAGATCGGAATGGAGTGAACCTCAAAGTCAGGAA
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ATCTTTAATATGTGGGACTAACAGCAGTGTAGATTGTTACCTTAATTTTTTTGTGGGA
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TTCAAGTATTATGCCTTAATGTCTCTTAACCCTGTTACACGCTGCTTGTAGACATGTTA
ATATAGTAATACCTTTATGATATATTGAGTTTAAAGACTACTCTTTTTCTGTTTTATCAT
GTATGCATTATTTGTATATGTACAGGCAAGTAGGTATATAATTTGATAAAGTTGCAAT
TGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002835 unedited
 GTTCGCATTTGTATACGACTCCTATAGGGCGGCCGCGATTTCGGCACGAGGGCCGGGGGA
 CGCGGGAGGATGGAGCAAGTGGAGATCCTGAGGAAATTCATCCAGAGGGTCCAGGCCATG
 AAGAGTCTGACCACAATGGGGAGGACAACCTCGCCCGGACTTCATGCGGTTAAGAAGA
 TTGTCTACCAAATATAGAACAGAAAAGATATATCCACAGCCACTGGAGAAAAAGAAGAA
 AATGTTAAAAAGAACAGATACAAGGACATACTGCCATTTGATCACAGCCGAGTTAAATTG
 ACATTAAGACTCCTTCACAAGATTCAGACTATATCAATGCAAATTTTATAAAGGGCGTC
 TATGGGCCAAAAGCATATGTAGCAACTCAAGGACCTTTAGCAAATACAGTAATAGATTTT
 TGGAGGATGATATGGGAGTATAATGTTGTGATCATTGTAATGGCCTGCCGAGAATTTGAG
 ATGGGAAGGAAAAATGTGAGCGCTATTGGCCTTTGTATGGAGAAGACCCATAACGTTT
 GCACCATTTAAAAATTTCTGTGAGGATGAACAAGCAAGAACAGACTACTTCATCAGGACA
 CTCTTACTTGAATTTCAAATGAATCTCGTAGGCTGTATCAGTTTCATTATGTGAAGTGG
 CCAGACCATGATGTTCTTCATCATTTGATTCTATTCTGGACATGATAAGCTTAATGAGG
 AAATATCAAGAACATGAAGATGTTCTATNTGTATTTCATTGCAGTGCAGGCTGTGGAAGA
 ACAGGTGCCATTTGTGCCATAGATTATACGTGGAATTAAGCTGGAATAACCA
 GAGGAATTTAATGATTTAANTTAATACCAGAAATGAGAACACAAGGCATCCTGCAGTAC
 CAACCAAGGAGCATATGAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002835 unedited
 GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCTACTGTAAAAGTGT
 GTTTTTTTAATGACAGGTCAAATATCCTGAACACATACATGATTTTGTAGTCTTCTA
 ATCCCACTTGAGTTCAAATATTAAGAAACACACACAAGCTAAGAGAATTCATATTGTT
 CCAAGGCCTTACTGAATCTCTGACTAGATGAAAACAGGAACAATTAGGATGAACAATTA
 GACTGTATATAATATAAAAATAACTTTTTGCTTACAATTTACAAAATTATTATTACAATC
 TTTGATCTCTGATAACCTGCAAAGCTGGCTGCATGAATCCAGCAAGTTTAAAAATTCAGAA
 ACTATTTTCTAAAAGTCCAGGGCAAATAATTTACAAAATAAAGTACACAAAGATTTAGACC
 ATGCAGAAATTTCTTACATCTTCTGTTAATAATATTTCAATTGCAACTTTATCAAATTA
 ATACCTACTTGCCTGTACATATACAAAATAATGCATACATGATAAAACAGAAAAAGAGT
 AGTCCTTAAACTCAATATATCATAAAGGTATTACTATTAACATGTCTACAAGCAGCGT
 GTAACAGGGTTAAGAGACATTAAGGCAATAATACTTGAAGTTTCAAATAAACCATATGT
 AATACTTTTTCTAAGTGTAGTATAAGGCAGGTAGATGGTCCCAGCAAAAATATTAAGG
 TAACAATCTACACTGCTGTTAGTCCCACATATTAAAGATGGAATACTATAAATCTGGCTT
 TCAGTGGCACCTGAATTTCCAGTATAACTTAAAGGGTCTTCTAGCTCCCTGATCATGTCC
 ATTCTGAAAGTGGATCTCTGGGTCCTTGGGGTTTTCACATCGATTACAAAACCAATATCT
 GTGCTTCTGTTGGGATTCTGAATTT

Restriction Sites:

NotI-NotI

ACCN:

NM_002835

Insert Size:

2930 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:	<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_002835.2 , NP_002826.2
RefSeq Size:	3161 bp
RefSeq ORF:	2343 bp
Locus ID:	5782
UniProt ID:	Q05209
Cytogenetics:	7q11.23
Domains:	Y_phosphatase, PTPc_motif
Protein Families:	Druggable Genome, Phosphatase
Gene Summary:	<p>The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains a C-terminal PEST motif, which serves as a protein-protein interaction domain, and may regulate protein intracellular half-life. This PTP was found to bind and dephosphorylate the product of the oncogene c-ABL and thus may play a role in oncogenesis. This PTP was also shown to interact with, and dephosphorylate, various products related to cytoskeletal structure and cell adhesion, such as p130 (Cas), CAKbeta/PTK2B, PSTPIP1, and paxillin. This suggests it has a regulatory role in controlling cell shape and mobility. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Oct 2008]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>