

Product datasheet for **SC111683**

TCPTP (PTPN2) (NM_002828) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCPTP (PTPN2) (NM_002828) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPN2
Synonyms:	PTN2; PTPT; TC-PTP; TCELLPTP; TCPTP
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002828, the custom clone sequence may differ by one or more nucleotides

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ATGCCACCACCATCGAGCGGGAGTTCGAAGAGTTGGATACTCAGCGTCGCTGGCAGCCGCTGTA  
AAATTCGAAATGAGTCCCATGACTATCCTCATAGAGTGGCCAAGTTTCCAGAAAACAGAAATCG  
AAACAGATACAGAGATGTAAGCCCATATGATCACAGTCGTGTTAACTGCAAAATGCTGAGAAT  
GATTATATTAATGCCAGTTTAGTTGACATAGAAGAGGCACAAAGGAGTTACATCTTAACACAG  
GGTCCACTTCTAACACATGCTGCCATTTCTGGCTTATGGTTTGGCAGCAGAAGACCAAGCAG  
TTGTCATGCTGAACCGCATTGTGGA GAAAGAATCGGTTAAATGTGCACAGTACTGGCCAAC  
AGATGACCAAGAGATGCTGTTTAAAGAAAACAGGATTTCAGTGTGAAGCTCTTGTGAGAAG  
ATGTGAAGTCGATTATACAGTACATCTACTACAATTAGAAAATA TCAATAGTGGTGAACCA  
GAAACAATATCTCACTTTTATTACTACCTGGCCAGATTTTGGAGTCCCTGATCACCAGCTTC  
ATTTCTCAATTTCTTGTTTAAAGTGAGAGAATCTGGCTCCTTGAACCCTGACCATGGGCT  
GCGGTGATCCACTGTAGTGCAGGCATTGGGCGCTCTGGCACCTTCTCTGTTAGACTTGTCTT  
GTTTTGATGGAAAAGGAGATGATTAACATAAAAACAAGTGTACTGAACATGAGAAAATACCG  
AATGGG GGAGATTCTAGTATACAGAAACGATGAAAGAACTTTCTAAGGAAGACTTATCTCCTGCCTTTGATCATT  
CACCAAAACAAAATAATGACTGAAAAATACAATGGGAACAGAATAGGTCTAGAAGAAGAAA  
AACTGACAGG TGACCGATGTACAGGACTTTCTCTAAAATGCAAGATACAATGGAGGAGAAC  
AGTGAAGAGTCTACGG AAACGTATTCGAGAGGACAGAAAGGCCACCACAGCTCAGAAGGT  
GCAGCAGATGAAACAGAGGCTAAATG AGAATGAACGAAAAAGAAAAGGTGTTATATTGG  
CAACCTATTCTCACTAAGATGGGGTTTATGTCAGT CATTGTTGGTGGCGCTTTTGTGGCT  
GGACACTGTTTTTTCAGCAAAATGCCCTATAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002828 unedited
 TCAGCATTTGTATACGACTCACTATAGGCGGCCGCGNAATTCGCACGAGGCCCGGATCGT
 GCGGGGCTGAGCCTCTCCGCCGGCGCAGGCTCTGCTCGCGCCAGCTCGCTCCCGCAGCC
 ATGCCACCACCATCGAGCGGGAGTTCGAAGAGTTGGATACTCAGCGTCGCTGGCAGCCG
 CTGTACTTGAAATTCGAAATGAGTCCCATGACTATCCTCATAGAGTGGCCAAGTTTCCA
 GAAAACAGAAATCGAAACAGATACAGAGATGTAAGCCCATATGATCACAGTCGTGTTAAA
 CTGCAAAATGCTGAGAATGATTATATTAATGCCAGTTTAGTTGACATAGAAGAGGCACAA
 AGGAGTTACATCTTAACACAGGGTCCACTTCTAACACATGCTGCCATTTCTGGCTTATG
 GTTTGGCAGCAGAAGACCAAAGCAGTTGTGATGCTGAACCGCATTGTGGAGAAAGAATCG
 GTTAAATGTGCACAGTACTGGCCAAACAGATGACCAAGAGATGCTGTTAAAGAAACAGGA
 TTCAGTGTGAAGCTCTTGTGAGAAGATGTGAAGTCGATTATACAGTACATCTACTACAA
 TTAGAAAATATCAATAGTGGTGAACCCAGAACAAATATCTCACTTTCATTACTACTCGG
 CCAGATTTTGGAGTCCCTGAATCACCAGCTTCATTTCTCAATTTCTGTTAAAGTGAGA
 GAATCTGGCTCCTGAACCTGACATGGCCTGCGGTGATCCACTGTAGTGCAGGCATTG
 NGCGCTCTGGCACCTTCTCTGGAGACTTGTCTTGTGTTTATGGAAAAGGAGATGAT
 TTTAACTAAAACAGTGTTACTGAACTGAGAAATACGAATGGGCTTATTCGACCCAGATCA
 CTGAGATCTCATACTGGCTTAAAGAAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002828 unedited
 ACTATGGCCGCGCCGCATCTAGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTAAACCAGTTTTAAACAAACATGAATGTTTTTTTTTTAA
 ACAGCCTTTTACAGTTGGGGTTCAAAGGAACCTGCAGCCAAAAACCTGAAATGTGGGG
 CTTGGGACTGAAAATACACTTATCGGGGGGAGGTCTATTCTACGGCCCCGTTTTTGAA
 TATGAGGCGTTTTGTTGCAACAAACCCCTATGATTAAGGGACCACTGGCAGTTACTAGGG
 CAAAAGCTTGCTGGGCAAAATTAATTGTTTATAGGGCATTGCTGAAAAACAGGGTCC
 ACCCAACAAAAGCCCACCCAAAAGGACTGACATAACCCCATTTTAGGGAAAATAGGTT
 GCCAATATACCCACCTTTTTTTTTTTTCGTTAATTCTAATTAACCTCTGTTTCATCGGCT
 GCACCTTTTGGAGCTGGGGGGCCTTTTTGCCCTTTCGAAAACGTTTCCGAAAAGCACTCC
 CACTGTTCTCCTCCATTGGATCTGGCATTATAAAGGAAAGCCCTGTACATCGGCCACCTG
 CCATTTTTTTTTCTTCTAAACCTATTTTGCGCCATTGATTTTTTAACCCATTTTTTTGT
 TGGGCGAAAGATAAAAAGGCAGGAAACAAGCTCTTCTTAAAAAGCCTTCCATCGTTCCGG
 ACAACTAAAACCCCTTTATAACTTTGGCCCTTTATTTAACGCCTTGGTAAAACCCCA
 GTGATCTGGGGTCAGAAAAAACCCATTTCGGTTTTTCTACTGTTAAGACCACTGGGTCA
 AGGCAAAACACATCCCCTTTTCCCACAACAAGAATAGTTCTCCCCAAAAAAGGTCAAAA
 CCCCCAATCCTCGTTACATGGGACCCCAAGCGCCCGGTTGGGTTTCAGGCACACAATT
 CTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_002828

Insert Size:

1700 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_002828.2 , NP_002819.1
RefSeq Size:	2477 bp
RefSeq ORF:	1248 bp
Locus ID:	5771
UniProt ID:	P17706
Cytogenetics:	18p11.21
Domains:	Y_phosphatase, PTPc_motif
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
Gene Summary:	<p>The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. Epidermal growth factor receptor and the adaptor protein Shc were reported to be substrates of this PTP, which suggested the roles in growth factor mediated cell signaling. Multiple alternatively spliced transcript variants encoding different isoforms have been found. Two highly related but distinctly processed pseudogenes that localize to chromosomes 1 and 13, respectively, have been reported. [provided by RefSeq, May 2011]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>