

Product datasheet for **SC128001**

TCPTP (PTPN2) (NM_080423) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCPTP (PTPN2) (NM_080423) Human Untagged Clone
Tag:	Tag Free
Symbol:	TCPTP
Synonyms:	PTN2; PTPT; TC-PTP; TCELLPTP; TCPTP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC128001 sequence for NM_080423 edited (data generated by NextGen Sequencing)

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ATGCCACCACCATCGAGCGGGAGTTTCAAGAGTTGGATACTCAGCGTCGCTGGCAGCCC
CTGTACTTGAAAATTCGAAATGAGTCCCATGACTATCCTCATAGAGTGGCCAAGTTTCCA
GAAAACAGAAATCGAAACAGATACAGAGATGTAAGCCCATATGATCACAGTCGTGTTAAA
CTGCAAAATGCTGAGAATGATTATTAATGCCAGTTTAGTTGACATAGAAGAGGCACAA
AGGAGTTACATCTTAACACAGGGTCCACTTCCTAACACATGCTGCCATTTCTGGCTTATG
GTTTGGCAGCAGAAGACCAAGCAGTTGTCATGCTGAACCGCATTGTGGAGAAAGAATCG
GTTAAATGTGCACAGTACTGGCCAACAGATGACCAAGAGATGCTGTTAAAGAAACAGGA
TTCAGTGTGAAGCTCTTGTGAGAAGATGTGAAGTCGATTATACAGTACATCTACTACAA
TTAGAAAATATCAATAGTGGTGAACCAGAACAAATATCTCACTTTCATTATACTACTGG
CCAGATTTTGGAGTCCCTGAATCACCAGCTTCATTTCTCAATTTCTTGTTTAAAGTGAGA
GAATCTGGCTCCTTGAACCCTGACCATGGGCTGCGGTGATCCACTGTAGTGCAGGCATT
GGGCGCTCTGGCACCTTCTCTCTGGTAGACACTTGTCTTGTGTTTGGATGGAAAAAGGAGAT
GATATTAACATAAAAAGTGTACTGAACATGAGAAAAACCGAATGGGTCTTATTTCAG
ACCCAGATCAACTGAGATTCTCATACATGGCTATAATAGAAGGAGCAAAATGTATAAG
GGAGATTCTAGTATACAGAAACGATGGAAAGAAGTTTCTAAGGAAGACTTATCTCCTGCC
TTTGATCATTACCAAACAAAATAATGACTGAAAAATACAATGGGAACAGAAATAGGTCTA
GAAGAAGAAAAACTGACAGGTGACCGATGTACAGGACTTTCCTCTAAAATGCAAGATACA
ATGGAGGAGAACAGTGAGAGGCCAAGATTGACAGACACCTAA

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Clone variation with respect to NM_080423.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_080423 unedited NTGGGGTCGCATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCCATTACGGCCGG GGGAGCGCGCATGCGCCGCGAGCCAGCGCTCTCCCCGGATCGTGCGGGGCCTGAGCCTC TCCGCCGCGCAGGCTCTGCTCGCGCCAGCTCGTCCCGCAGCCATGCCACCACCATCG AGCGGGAGTTCGAAGAGTTGGATACTCAGCGTCGCTGGCAGCCGCTGTACTTGAAATTC GAAATGAGTCCCATGACTATCCTCATAGAGTGGCCAAGTTCCAGAAAACAGAAATCGAA ACAGATACAGAGATGTAAGCCCATATGATCAGAGTCGTGTTAAACTGCAAATGCTGAGA ATGATTATATTAATGCCAGTTTAGTTGACATAGAAGAGGCACAAAGGAGTTACATCTTAA CACAGGGTCCACTTCTAACACATGCTGCCATTTCTGGCTTATGGTTTGGCAGCAGAAGA CCAAAGCAGTTGTGTCATGCTGAACCCGATTGTGGAGAAAGAATCGTTAAATGTGCACAGT ACTGGCCAAACAGATGACCAAGAGATGCTGTTTAAAGAAACAGGATTCAGTGTGAAGCTCT TGTCAGAAAGATGTGAAGTCGATTATACAGTACATCTACTACAATTAGAAAATATCAATA GTGGTGAACAGAAACAATATCTCACTTTCATTATACTACCTGGCCAGATTTTGGAGTCC CTGAATCACCAGCTTCATTTCTCAATTTCTGTTTAAAGTGAGAGAATCTGGCTCCTTGA ACCCTGACCATGGCCTGCGGTGATCCACTGTAGTGCAGGCATTGNGCGCTCTGGCACCT TCTCTCTGGTAGACACTTGGTCTGA
Restriction Sites:	Please inquire
ACCN:	NM_080423
Insert Size:	1600 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_080423.1 , NP_536348.1
RefSeq Size:	1623 bp
RefSeq ORF:	1062 bp
Locus ID:	5771
UniProt ID:	P17706
Cytogenetics:	18p11.21
Domains:	Y_phosphatase
Protein Families:	Druggable Genome, Phosphatase, Transmembrane

Gene Summary:

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]

Transcript Variant: This variant (3) contains an alternate 3' region, which includes a part of the C-terminal coding region, when compared to variant 1. The resulting isoform (3) has a shorter and distinct C-terminus, as compared to isoform 1.