

Product datasheet for **SC310456**

TCPTP (PTPN2) (NM_080422) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCPTP (PTPN2) (NM_080422) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPN2
Synonyms:	PTN2; PTPT; TC-PTP; TCELLPTP; TCPTP
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_080422, the custom clone sequence may differ by one or more nucleotides ATGCCACCACCATCGAGCGGGAGTTCCGAAGAGTTGGATACTCAGCGTCGCTGGCAGCCG CTGTACTTGAAAATTCGAAATGAGTCCCATGACTATCCTCATAGAGTGGCCAAGTTTCCA GAAAACAGAAATCGAAACAGATACAGAGATGTAAGCCCATATGATCACAGTCGTGTTAA CTGCAAAATGCTGAGAATGATTATTAATGCCAGTTTAGTTGACATAGAAGAGGCACAA AGGAGTTACATCTTAACACAGGGTCCACTTCTAACACATGCTGCCATTTCTGGCTTATG GTTTGGCAGCAGAAGACCAAGCAGTTGTCATGCTGAACCGCATTGTGGAGAAAGAAATCG GTTAAATGTGCACAGTACTGGCCAACAGATGACCAAGAGATGCTGTTAAAGAAACAGGA TTAGAAAATATCAATAGTGGTGAACCAGAAACAATATCTCACTTTTCAATATACTACCTGG CCAGATTTTGGAGTCCCTGAATCACCAGCTTCATTTCTCAATTTCTTGTTAAAGTGAGA GAATCTGGCTCCTGAACCCTGACCATGGGCTGCGGTGATCCACTGTAGTGCAGGCATT GGGCGCTCTGGCACCTTCTCTCTGGTAGACACTTGTCTTGTGTTTATGAAAAAGGAGAT GATATTAACATAAAAACAAGTGTTACTGAACATGAGAAAAACCGAATGGGTCTTATTCAG ACCCAGATCAACTGAGATTCTCATACATGGCTATAATAGAAGGAGCAAAATGTATAAAG GGAGATTCTAGTATACAGAAACGATGGAAGAAGTTTCTAAGGAAGACTTATCTCCTGCC TTTGATCATTACCAAACAAAATAATGACTGAAAAATACAATGGGAACAGAATAGGTCTA GAAGAAGAAAACTGACAGGTGACCGATGTACAGGACTTTCCTCTAAAATGCAAGATACA ATGGAGGAGAACAGTGAAGTGTCTACGGAAACGTATTCGAGAGGACAGAAAGGCCACC ACAGCTCAGAAGGTGCAGCAGATGAAACAGAGGCTAAATGAGAATGAACGAAAAAGAAAA AGGCCAAGATTGACAGACACCTAA
Restriction Sites:	Please inquire
ACCN:	NM_080422
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).



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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).
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_080422.1 , NP_536347.1
RefSeq Size:	1714 bp
RefSeq ORF:	1164 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 (2) contains an alternate 3' region, which includes a part of the C-terminal coding region, when compared to variant 1. The resulting isoform (2) has a shorter and distinct C-terminus, as compared to isoform 1.</p>