

# Product datasheet for RC205090

### TCPTP (PTPN2) (NM\_080423) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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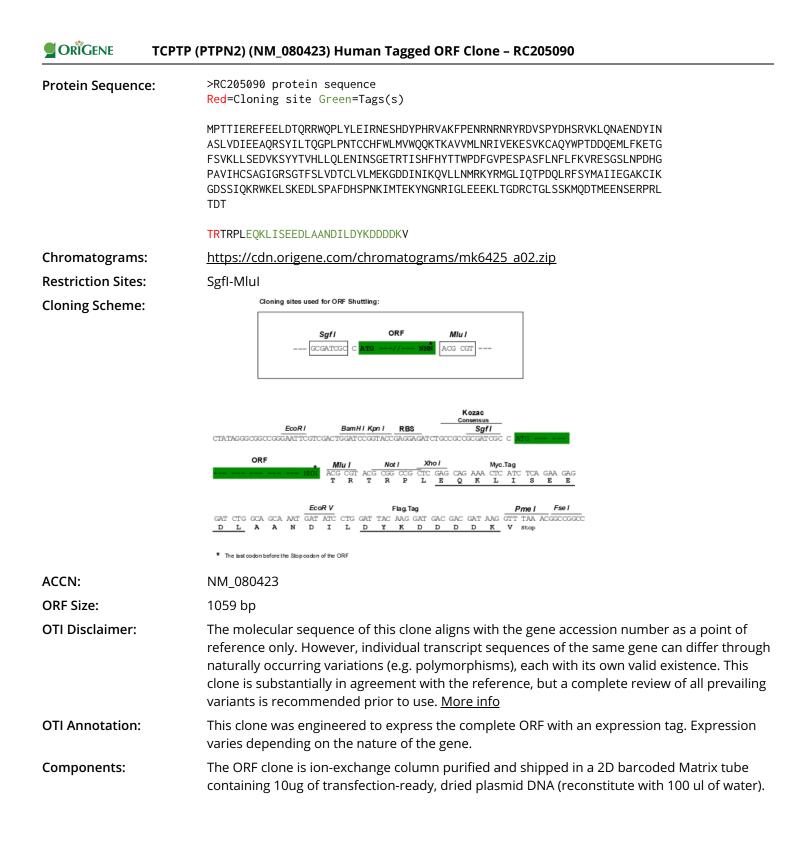
Product Type:	Expression Plasmids	
Product Name:	TCPTP (PTPN2) (NM_080423) Human Tagged ORF Clone	
Tag:	Myc-DDK	
Symbol:	ТСРТР	
Synonyms:	PTN2; PTPT; TC-PTP; TCELLPTP; TCPTP	
Mammalian Cell Selection:	Neomycin	
Vector:	pCMV6-Entry (PS100001)	
E. coli Selection:	Kanamycin (25 ug/mL)	
ORF Nucleotide Sequence:	<pre>&gt;RC205090 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>	
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C	
	ATGCCCACCATCGAGCGGGAGTTCGAAGAGTTGGATACTCAGCGTCGCTGGCAGCCGCTGTACTTGG	

GTACTTGG AAATTCGAAATGAGTCCCATGACTATCCTCATAGAGTGGCCAAGTTTCCAGAAAACAGAAATCGAAACAG ATACAGAGATGTAAGCCCATATGATCACAGTCGTGTTAAACTGCAAAATGCTGAGAATGATTATATTAAT GCCAGTTTAGTTGACATAGAAGAGGCACAAAGGAGTTACATCTTAACACAGGGTCCACTTCCTAACACAT GCTGCCATTTCTGGCTTATGGTTTGGCAGCAGAAGACCAAAGCAGTTGTCATGCTGAACCGCATTGTGGA GAAAGAATCGGTTAAATGTGCACAGTACTGGCCAACAGATGACCAAGAGATGCTGTTTAAAGAAACAGGA TTCAGTGTGAAGCTCTTGTCAGAAGATGTGAAGTCGTATTATACAGTACATCTACTACAATTAGAAAATA TCAATAGTGGTGAAACCAGAACAATATCTCACTTTCATTATACTACCTGGCCAGATTTTGGAGTCCCTGA ATCACCAGCTTCATTTCTCAATTTCTTGTTTAAAGTGAGAGAATCTGGCTCCTTGAACCCTGACCATGGG CCTGCGGTGATCCACTGTAGTGCAGGCATTGGGCGCTCTGGCACCTTCTCTGGTAGACACTTGTCTTG TTTTGATGGAAAAAGGAGATGATATTAACATAAAACAAGTGTTACTGAACATGAGAAAATACCGAATGGG TCTTATTCAGACCCCAGATCAACTGAGATTCTCATACATGGCTATAATAGAAGGAGCAAAATGTATAAAG GGAGATTCTAGTATACAGAAACGATGGAAAGAACTTTCTAAGGAAGACTTATCTCCTGCCTTTGATCATT CACCAAACAAAATAATGACTGAAAAAATACAATGGGAACAGAATAGGTCTAGAAGAAGAAAAACTGACAGG TGACCGATGTACAGGACTTTCCTCTAAAATGCAAGATACAATGGAGGAGAACAGTGAGAGGCCAAGATTG ACAGACACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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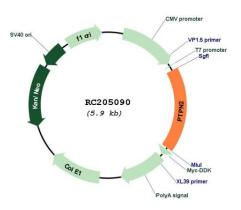
# **CRIGENE** TCPTP (PTPN2) (NM\_080423) Human Tagged ORF Clone – RC205090

Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	<u>NM 080423.2</u>
RefSeq Size:	1619 bp
RefSeq ORF:	1062 bp
Locus ID:	5771
UniProt ID:	<u>P17706</u>
Cytogenetics:	18p11.21
Domains:	Y_phosphatase
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
MW:	41 kDa
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

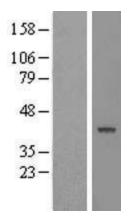
chromosomes 1 and 13, respectively, have been reported. [provided by RefSeq, May 2011]

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## **Product images:**



Circular map for RC205090



Western blot validation of overexpression lysate (Cat# [LY409168]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205090 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified PTPN2 protein (Cat# [TP305090]). The protein was produced from HEK293T cells transfected with PTPN2 cDNA clone (Cat# RC205090) using MegaTran 2.0 (Cat# [TT210002]).

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