

## Product datasheet for **TP305090**

### TCPTP (PTPN2) (NM\_080423) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein tyrosine phosphatase, non-receptor type 2 (PTPN2), transcript variant 3, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC205090 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MPTTIEREFEELDTQRRWQPLYLEIRNESHDYPHRVAKFPENRNRNRYRDVSPYDHSRVKLNQNAENDYIN ASLVDIEEAQRSYILTQGPLPNTCCHFWMVWQQKTKAVVMLNRIVEKESVKCAQYWPTDDQEMLFKETG FSVKLLSEDEVKSYTVHLLQLENINSGETRTISHFYTTWPDFGVPEPASFLNFLFKVRESGSLNPDHG PAVIHCSAGIGRSGTFSLVDTCLVLMKGGDDINIKQVLLNMRKYRMGLIQTDPQLRFSYMAIIEGAKCIK GDSSIQKRWKELSKEDLSPAFDHSPNKIMTEKYNGNRIGLEEEKLTGDRCTGLSSKMQDTMEENSERPRL TDT</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	40.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_536348</a></u>



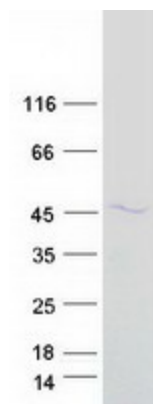
[View online »](#)

Locus ID:	5771
UniProt ID:	<a href="#">P17706</a> , <a href="#">Q96AU5</a>
RefSeq Size:	1619
Cytogenetics:	18p11.21
RefSeq ORF:	1059
Synonyms:	PTN2; PTPT; TC-PTP; TCELLPTP; TCPTP

**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]

**Protein Families:** Druggable Genome, Phosphatase, Transmembrane

### Product images:



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]).