

## Product datasheet for SC303244

### PTPN7 (NM\_002832) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PTPN7 (NM\_002832) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PTPN7  
**Synonyms:** BPTP-4; HEPTP; LC-PTP; LPTP; PTPNI  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_002832 edited  
 ATGGTCGGGAAGGCCTGGCCCTACCCATTCCCAGGGAACGGGGCCTTGGGCCCCAGAA  
 GGGCACAGCGGGAGGCAGCCGACCCCTGGTGGCAGCGGCAGCAGGCACAGGAGGCAGA  
 ATGCAGCTGGGGTGTGCGTGGGTGGCAGCAAGGAGGGGCGGAGGGAGGAAGCTGGCTTCC  
 TGGAGCCTTCTCAGCCCTCAAAGACAGACCAGACAGACAGACAGACTGGCAAGAGGCA  
 GCCTGGGGCCACAGCTGCTTACGACAGCCTCATGGCTGAGTGAGCCTCCCTGGGCCCA  
 GCACCCACCTCAGCATGGTCCAAGCCCATGGGGGGCGCTCCAGAGCACAGCCGTTGACC  
 TTGTCTTTGGGGCAGCCATGACCCAGCCTCCGCTGAAAAACGCCAGCCAAGAAGCAT  
 GTGCGACTGCAGGAGAGGGGGCTCCAATGTGGCTCTGATGCTGGACGTTCCGTCCTG  
 GGGGCCGTAGAACCCTCTGCTCTGTGAACACACCCCGGAGGTCACCCTACACTTCTG  
 CGCACTGCTGGACACCCCTTACCGCTGGGCCCTTACGCGCCAGCCACCAGCCCAAG  
 CAACTGGAAGAAGAACTTGAAGATCCCTTCAAACCTTTGTAGCCCGAAGACCTGGAC  
 ATCCCTGGCCACGCTCAAGGACCGATACAAGACCATCTTGCCAAATCCCAGAGCCGT  
 GTCTGTCTAGGCCGGGCACAGAGCCAGGAGGACGGAGATTACATCAATGCCAACTACATC  
 CGAGGCTATGACGGGAAGGAGAAGGTCTACATTGCCACCCAGGGCCCATGCCAACACT  
 GTGTCGGACTTCTGGGAGATGGTGTGGCAAGAGGAAGTGTCCCTCATTGTGTCATGCTCACT  
 CAGCTCCGAGAGGGCAAGGAGAAATGTGTCCACTACTGGCCACAGAAGAGGAAACCTAT  
 GGACCTTCCAGATCCGCATCCAGGACATGAAAGAGTGCCAGAATACACTGTGCGGCAG  
 CTCACCATCCAGTACCAGGAAGAGCGCCGGTCAAGTAAAGCACATCCTCTTTTCGGCTGG  
 CCAGACCATCAGACACCAGAATCAGCTGGGCCCTGCTGCGCCTAGTGGCAGAGGTGGAG  
 GAGAGCCCGGAGACAGCCGCCACCCCGGGCCTATCGTAGTCCACTGCAGTGCAGGGATT  
 GGCCGGACGGGTGCTTCATCGCCACGGAATTGGCTGTCAACAGCTGAAAGCCCGAGGA  
 GAAGTGGACATTCTGGGTATTGTGTGCCAACTGCGGCTAGACAGAGGGGGATGATCCAG  
 ACGGCAGAGCAGTACCAGTTCCTGCACCACACTTTGGCCCTGTATGCAGGCCAGTGCCT  
 GAGGAACCCAGCCCTGA

**Restriction Sites:** Please inquire



[View online »](#)

<b>ACCN:</b>	NM_002832
<b>Insert Size:</b>	3100 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_002832.2</a> , <a href="#">NP_002823.2</a>
<b>RefSeq Size:</b>	2805 bp
<b>RefSeq ORF:</b>	1083 bp
<b>Locus ID:</b>	5778
<b>UniProt ID:</b>	<a href="#">P35236</a>
<b>Cytogenetics:</b>	1q32.1
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>Protein Pathways:</b>	MAPK signaling pathway

**Gene Summary:**

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This gene is preferentially expressed in a variety of hematopoietic cells, and is an early response gene in lymphokine stimulated cells. The non-catalytic N-terminus of this PTP can interact with MAP kinases and suppress the MAP kinase activities. This PTP was shown to be involved in the regulation of T cell antigen receptor (TCR) signaling, which was thought to function through dephosphorylating the molecules related to MAP kinase pathway. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2010]

Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.