

## Product datasheet for **SC331357**

### **PTPRN (NM\_001199764) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PTPRN (NM_001199764) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPRN
Synonyms:	IA-2; IA-2/PTP; IA2; ICA512; R-PTP-N
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC331357 representing NM\_001199764.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGTCCCAAGGATTGCTCTGGCAGCATGACCTCAGGATGTGATCTCTCAGGAGATGGAGCGCATC  
 CCCAGGCTTCGCCCCCAGAGCCCCGCAAGGGACAGGTCTGGCTTGGCACCAAGAGACCTGGTCCT  
 GCTGGAGAGCTGCTTTTACAGGACATCCCAGTGGCTCCGCCCCGCTGCCAGCATCGGCTTCCACAA  
 CCACAGTGGGCAAAGGTGGAGCTGGGGCAGTCTCTCTGTCCCCTCTGCAGGCTGAGCTGTCCCCG  
 CCTCTCTTGAGACCTGCTGCTGCCCCACAGCCTCCCACCCTTCACTGAGTTACGAACCTGCCTTG  
 CTGCAGCCCTACCTGTTCCACCAGTGTGGCTCCCGTGTGGCTCCAGGCTCAGAGGGCTCCCCAGGG  
 ATGGTCAGTGTGGCCCCCTGCCAAGGCTGAAGCCCTGCCCTTTCAGCAGAACTGCCTCCAAGGGC  
 ATATTTGGGGACCACCCTGGCCACTCTACGGGGACCTTCAGGGCCTTACCTGCCAGCTTTTCAA  
 GACTCTGGGTGCTCTATCTGGCCAGGAGTTGCCAGCACCCAGCAGGGCCAGGGTCCAAGGCTGCCA  
 GAGCAAGGGAGCAGCAGCCGGGACAGGACTCCCAGAGGGCTATGAGAAGGAAGGACTAGGGGATCGT  
 GGAGAGAAGCCTGCTTCCCAGCTGTGCAGCCAGATGCGGCTCTGCAGAGGCTGGCCGCTGTGCTGGC  
 GGCTATGGGGTAGAGCTGCGTCAGCTGACCCTGAGCAGCTCTCCACACTCTGACCCTGTGCAGCTA  
 CTGCCAAGGGTGCAGGAAGAAATCCGGGAGGGGTGTAATGTTGGAGCTGATATCAAGAAAACAATG  
 GAGGGGCCGTTGGAGGGCAGAGACACAGCAGAGCTTCCAGCCGACATCCCCATGCCTGGACACCCC  
 ACTGCCAGCCCTACCTCCAGTGAAGTCCAGCAGGTGCCAAGCCCTGTCTCCTCTGAGCCTCCAAAGCT  
 GCCAGACCCCTGTGACACCTGTCTGTAGAGAAGAAAAGCCACTGGGCCAGAGCCAGCCACGGTG  
 GCAGGACAGCCCTCAGCCCGCCAGCAGCAGAGGAATATGGCTACATCGTCACTGATCAGAAGCCCTG  
 AGCCTGGCTGCAGGAGTGAAGCTGCTGGAGATCCTGGCTGAGCATGTGCACATGTCTCAGGCAGCTT  
 ATCAACATCAGTGTGGTGGGACCAGCCCTCACCTCCGCATCCGGCACAATGAGCAGAACCTGTCTTTG  
 GCTGATGTGACCAACAAGCAGGGCTGGTGAAGTCTGAACTGGAAGCACAGACAGGGCTCCAAATCTTG  
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 GCTCTGTGTGCGGCAGCATGCGCGCAGCAAGACAAGGAGCGCCTGGCAGCCCTGGGCGCTGAGGGG  
 GCCCATGGTGACACTACCTTTGAGTACCAGGACTGTGCCGCCAGCAGCATGGCCACGAAGTCTTGTTC  
 AACCGGGCAGAGGGTCCACCGGAGCCTTACGGGTGAGCAGTGTGTCTCCAGTTCAGCGACGACGCC  
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 ATCTCCACGGGACACATGATTCTGGCATAACATGGAGATCACCTGCGGAACCGGGACCGCCTTGCCAA  
 GAGTGGCAGGCCCTCTGTGCTACCAAGCAGAGCCAAACCTGTGCCACCGCGCAGGGGGAGGGCAAC  
 ATCAAAAAGAACCAGCATCCTGACTTCTGCCCTATGACCATGCCCGCATAAAACCTGAAGGTGGAGAGC  
 AGCCCTTCTCGGAGCGATTACATCAACGCCAGCCCCATTATTGAGCATGACCCTCGGATGCCAGCCTAC  
 ATAGCCACGCAGGGCCCCGCTGTCCCATACCATCGCAGACTTCTGGCAGATGGTGTGGGAGAGCGGCTGC  
 ACCGTCAATCGTATGCTGACCCGCTGGTGGAGGATGGTGTCAAGCAGTGTGACCCTACTGGCCAGAT  
 GAGGGTGCCTCCCTTACCACGTATATGAGGTGAACCTGGTGTGCGGAGCAGTCTGGTGCAGGACTTT  
 CTGGTGCAGGCTTCTACCTGAAGAAGTGCAGACCCAGGAGACGCGCACGCTCACGCAGTTCACCTTC  
 CTCAGCTGCGGCGAGAGGGCACACCGGCTCCACGCGGCCCTGCTGGACTTCCGAGGAAGGTGAAC  
 AAGTGCTACCGGGCGGCTCTGCCCATCATCGTGCAGTGCAGTGTGGTGGGGAGGACCCGGCACC  
 TACATCCTCATCGACATGGTCTGAACCCGATGGCAAAAGGAGTGAAGGAGATTGACATCGCTGCCACC  
 CTGGAGCATGTCCGTGACCAGCGGCTGGCCTGTCCGCTCTAAGGACCAGTTTGAATTTGCCCTGACA  
 GCCGTGGCGGAGGAAGTGAATGCCATCCTCAAGGCCCTGCCCAAGTGA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001199764  
**Insert Size:** 2670 bp

<b>OTI Disclaimer:</b>	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).
<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_001199764.1</a>
<b>RefSeq Size:</b>	3570 bp
<b>RefSeq ORF:</b>	2670 bp
<b>Locus ID:</b>	5798
<b>UniProt ID:</b>	<a href="#">Q16849</a>
<b>Cytogenetics:</b>	2q35
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Type I diabetes mellitus
<b>MW:</b>	96.3 kDa
<b>Gene Summary:</b>	<p>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 PTP possesses an extracellular region, a single transmembrane region, and a single catalytic domain, and thus represents a receptor-type PTP. This PTP was found to be an autoantigen that is reactive with insulin-dependent diabetes mellitus (IDDM) patient sera, and thus may be a potential target of autoimmunity in diabetes mellitus. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Dec 2010]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and has multiple coding region differences, compared to variant 1. These differences causes translation initiation at a downstream AUG and results an isoform (3) with a shorter N-terminus, compared to isoform 1.</p>