

Product datasheet for **SC303245**

PTPRN (NM_002846) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPRN (NM_002846) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPRN
Synonyms:	IA-2; IA-2/PTP; IA2; ICA512; R-PTP-N
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_002846 edited
 ATGCGGCGCCCGCGGCGCCTGGGGGTCTCGGGGATCCGGGGTCTCCGGCTGCTCCTC
 TGCTCCTGCTGCTGAGCAGCCGCCCGGGGGCTGCAGCGCCGTTAGTGCCACGGCTGT
 CTATTTGACCCGACGGCTCTGCTCTACCTGGAAGTCTGTATTACAGGATGGCTTGTGGG
 CAGTGCCAGGTGGGAGTGGGGCAGGCCCGGCCCTTTTGAAGTACCTCCCCAGTTCTC
 CAACGCTTACAAGGTGTGCTCCGACAACATGTCCCAAGGATTGCTGGCAGCATGAC
 CTACCCAGTATGTGATCTCTCAGGAGATGGAGGCATCCCCAGGCTTCGCCCCAGAG
 CCCCGTCCAAGGGACAGGTCTGGCTTGGCACCAAGAGACCTGGTCTGCTGGAGAGCTG
 CTTTTACAGGACATCCCCACTGGCTCCGCCCTGCTGCCAGCATCGGCTTCCACAACCA
 CCAGTGGGCAAAGGTGGAGCTGGGGCCAGCTCCTCTGTCCCCTCTGCAGGCTGAGCTG
 CTCCCGCCTCTTTGGAGCAGCTGCTGCTGCCCCACAGCCTCCCACCCTTCACTGAGT
 TACGAACCTGCCTTGTGCAGCCCTACCTGTTCCACCAGTTTGGCTCCCGTATGGCTCC
 AGGGTCTCAGAGGGCTCCCAGGATGGTCAGTGTCGGCCCCCTGCCAAGGCTGAAGCC
 CCTGCCCTCTTACAGCAGAACTGCCTCAAGGGCATATTTGGGGACCACCCTGGCCACTCC
 TACGGGGACCTTCCAGGGCCTTACCTGCCAGCTTTTTCAAGACTCTGGGCTGCTCTAT
 CTGGCCAGGAGTTGCCAGCACCCAGCAGGGCCAGGGTGCCAAGGCTGCCAGAGCAAGGG
 AGCAGCAGCCGGGACAGGACTCCCCAGAGGGCTATGAGAAGGAAGGACTAGGGGATCGT
 GGAGAGAAGCCTGCTTCCCAGCTGTGCAGCCAGATGCGGCTCTGCAGAGGCTGGCCGCT
 GTGCTGGCGGGCTATGGGGTAGAGCTGCGTCACTGACCCCTGAGCAGCTCTCCACACTC
 CTGACCCTGCTGCAGCTACTGCCAAGGGTGCAGGAAGAAATCCGGGAGGGGTTGTAAT
 GTTGGAGCTGATATCAAGAAAACAATGGAGGGGCCGTGGAGGGCAGAGACACAGCAGAG
 CTTCCAGCCCGCACATCCCCATGCCTGGACACCCACTGCCAGCCCTACCTCCAGTGAA
 GTCCAGCAGGTGCCAAGCCCTGTCTCCTGAGCCTCCCAAGCTGCCAGACCCCTGTG
 ACACCTGTCTGCTAGAGAAGAAAAGCCACTGGGCCAGAGCCAGCCACGGTGGCAGGA
 CAGCCCTCAGCCCGCCAGCAGCAGAGGAATATGGCTACATCGTCACTGATCAGAAGCC
 CTGAGCCTGGCTGCAGGAGTGAAGCTGCTGGAGATCCTGGCTGAGCATGTGCACATGTCC
 TCAGGCAGCTTCAACATCAGTGTGGTGGGACCAGCCCTCACCTTCCGCATCCGGCAC
 AATGAGCAGAACCTGTCTTTGGCTGATGTGACCAACAAGCAGGGCTGGTGAAGTCTGAA
 CTGGAAGCACAGACAGGGCTCCAAATCTTGACAGCAGGAGTGGGACAGAGGGAGGAGGCA
 GCTGCAGTCTTCCCAAACCTGCGCACAGCACCTACCCATGCGCTCAGTGTGCTCACT
 CTGGTGGCCCTGGCAGGTGTGGTGGGCTGCTGGTGGCTCTGGCTGTGGCTCTGTGTGTG
 CGGCAGCATGCGCGGCAGCAAGACAAGGAGCGCCTGGCAGCCCTGGGGCCTGAGGGGGCC
 CATGGTGACACTACCTTTGAGTACCAGGACCTGTGCCGCGCAGCAGCATGGCCACGAAGTCC
 TTGTTCAACCGGGCAGAGGGTCCACCGGAGCCTTACGGGTGAGCAGTGTGCTCCTCCAG
 TTCAGCGACGCAGCCAGGCCAGCCAGCTCCCACAGCAGCACCCCGTCTGGTGGCAG
 GAGCCGGCCCAAGCCAACATGGACATCTCCACGGGACACATGATTCTGGCATAACATGGAG
 GATCACCTGCGGAACCGGGACCGCTTGGCAAGGAGTGGCAGGCCCTCTGTGCCTACCAA
 GCAGAGCCAAACCTGTGCCACCGCGCAGGGGAGGGCAACATCAAAAAGAACCGGCAT
 CCTGACTTCTGCCCTATGACCATGCCCGCATAAAACTGAAGGTGGAGAGCAGCCCTCT
 CGGAGCGATTACATCAACGCCAGCCCCATTATTGAGCATGACCCCTCGGATGCCAGCCTAC
 ATAGCCACGCAGGGCCCGCTGTCCCATACCATCGCAGACTTCTGGCAGATGGTGTGGGAG
 AGCGGCTGCACCGTATCGTCTGCTGACCCCGCTGGTGGAGGATGGTGTCAAGCAGTGT
 GACCGCTACTGGCCAGATGAGGGTGCCTCCCTCTACCACGTATATGAGGTGAACCTGGT
 TCGGAGCACATCTGGTGCAGGACTTTCTGGTGGGAGCTTCTACCTGAAGAACGTGCAG
 ACCCAGGAGACGCGCACGCTCACGCAGTCCACTTCTCAGCTGGCCGGCAGAGGGCACA
 CCGGCCTCCACGCGGCCCTGCTGGACTCCGCAGGAAGGTGAACAAGTGTACCGGGGC
 CGCTCCTGCCCATCATCGTGCAGTGCAGTGTGGTGGGGAGGACCGGCACCTACATC
 CTATCGACATGGTCTGAACCGCATGGCAAAAGGAGTGAAGGAGATTGACATCGCTGCC
 ACCCTGGAGCATGTCCGTGACCGCGCCTGGCCTTGTCCGCTTAAGGACCAGTTTGAA
 TTTGCCCTGACAGCCGTGGCGGAGGAAGTGAATGCCATCCTCAAGGCCCTGCCCCAGTGA

Restriction Sites:

Please inquire

ACCN:	NM_002846
Insert Size:	2900 bp
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).
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:	<u>NM_002846.2</u> , <u>NP_002837.1</u>
RefSeq Size:	3649 bp
RefSeq ORF:	2940 bp
Locus ID:	5798
UniProt ID:	<u>Q16849</u>
Cytogenetics:	2q35
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Type I diabetes mellitus
Gene Summary:	<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 (1) represents the longest transcript and encodes the longest isoform (1).</p>