

Product datasheet for **SC305917**

PTPRN2 (NM_130843) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | PTPRN2 (NM_130843) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PTPRN2 |
| Synonyms: | IA-2beta; IAR; ICAAR; PTPRP; R-PTP-N2 |
| Vector: | <u>pCMV6 series</u> |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_130843, the custom clone sequence may differ by one or more nucleotides |

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ATGGGGCCGCGCTCCCGCTGCTGCTGCTACTGCTGCTGCTGCCGCCACGCGTCTG
CCTGCCGCCCTTCGTCCGTCCCCGCGGCCGCGCAGTCCCGGGCGTCTGGGCTGCCTG
CTCGAGGAGGGCCTCTGCGGAGCGTCCGAGGCCTGTGTGAACGATGGAGTGTGGAAAG
TGCCAGAAGGTTCCGGCAATGGACTTTTACCGCTACGAGGTGTCGCCCGTGGCCCTGCAG
CGCCTGCGCGTGGCGTTGCAGAAGCTTTCCGGCACAGTTTACAGTGGCAGGATGACTAT
ACTCAGTATGTGATGGACCAGAACTTGCAGACCTCCCGAAAACCTACCTGAGGCGTCT
GAAGCATCCAGCCAGCCAGGCCCTCAAACACAGCGTTGGCAGCGAGAGGAGGTACAGT
CGGGAGGGCGGTGCTGCCCTGGCCAACGCCCTCCGACGCCACCTGCCCTTCTGGAGGCC
CTGTCCCAGGCCCGCCTCAGACGTGCTCGCCAGGACCCATACGGCGCAGGACAGACCC
CCCCGTGAGGGTATGACCGCTTCTCCGAGAGCATCCTGACCTATGTGGCCACACGTCT
GCGCTGACCTACCTCCCGGGTCCCGGACCCAGCTCCGCGAGGACCTCCTGCCCGGACC
CTCGGCCAGCTCCAGCCAGATGAGCTCAGCCCTAAGGTGGACAGTGGTGTGGACAGAC
CATCTGATGGCGGCCCTCAGTGCCTATGCTGCCAGAGGCCCCAGCTCCCCCGGGGAG
GGCAGCCTGGAGCCACAGTACCTTCTGCGTGCACCCTCAAGAATGCCAGGCCTTTGCTG
GCACCAGCCGCCCCCAGAAGTGGCCTTACCTCTGGGAGATTCGAAGACCCCTCCAGC
ACAGGCGATGGAGCACGGATTACATACCCTCCTGAAGGACCTGCAGAGGCAGCCGGCTGAG
GTGAGGGGCTGAGTGGCCTGGAGCTGGACGGCATGGCTGAGCTGATGGCTGGCCTGATG
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GGAGAACAGGCGGATGGCCCCAAGGCCACCCTCCGTGGAGACAGCTTCCAGATGACGGA
GTGCAGGACGACGATGATAGACTTTACCAAGAGGTCCATCGTCTGAGTGGCACACTCGGG
GGCCTCCTGCAGGACCACGGTCTCGACTTTACCTGGAGCCCTCCCCTTGAAGGCC
CTCGACATGGAGAGGAAGAAGTCCGAGCACCCCTGAGTCTTCCCTGTCTTCAAGAGGAG
ACTGCCGAGTGGAGAAGTCAAGAGCCAGACGATTTCAAAGATCTGCTGGGGCAGCAG
CCGCAATTCGAGAGCCCGGGCCGCTGCGTTTGGGAGCTCCAAAACAGATGCCTGGGCC
TCGAAGGAGGAGCAGAGCCTTCCAGCGGGTCTCAGGAGGCCCTCAGCGACGGCCTGCAA
TTGGAGGTCCAGCCTTCCGAGGAAGAGGCGCGGGCTACATCGTGACAGACAGAGAGGTT
CTCGGACCAGCAGTGACCTTCAAAGTGAAGCCCAATGTCCAAAACGTGACCACTGAGGAT
GTGGAGAAGGCCACAGTTGACAACAAAGACAACTGGAGGAAACCTCTGGACTGAAAATT
CTTCAAACCGGAGTGGGTGCAAAAGCAAACCTCAAGTTCCTGCCTCCTCAGGCGGAGCAA

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GAAGACTCCACCAAGTTCATCGCGCTCACCCCTGGTCTCCCTCGCCTGCATCCTGGGCGTC
CTCCTGGCCTCTGGCCTCATCTACTGCCTCCGCCATAGCTCTCAGCACAGGCTGAAGGAG
AAGCTCTCGGGACTAGGGGGCGACCCAGGTGCAGATGCCACTGCCGCCTACCAGGAGCTG
TGCCGCCAGCGTATGGCCACGCGGCCACCAGACCGACCTGAGGGCCCGCACACGTACGC
ATCAGCAGCGTCTATCCCAGTTCAGCGACGGGCCGATCCCCAGCCCCTCCGCACGCAGC
AGCGCCTCATCTGGTCCGAGGAGCCTGTGCAGTCCAACATGGACATCTCCACCGGCCAC
ATGATCCTGTCTACATGGAGGACCACCTGAAGAACAAGAACCAGGCTGGAGAAGGAGTGG
GAAGCGCTGTGCCCTACCAGGCGGAGCCCAACAGCTCGTTCGTGGCCAGAGGGAGGAG
AACGTGCCCAAGAACCAGCTCCCTGGCCGTGCTGACCTATGACCACTCCCGGGTCTGCTG
AAGGCGGAGAACAGCCACAGCCACTCAGACTACATCAACGCTAGCCCCATCATGGATCAC
GACCCGAGGAACCCCGCTACATCGCCACCCAGGGACCGTGCCTCCACCGTGGCTGAC
TTTTGGCAGATGGTGTGGGAGAGCGGCTGCGTGGTGTGATCGTCATGCTGACACCCCTCGG
GAGAACGGCGTCCGGCAGTGTACCACTACTGGCCGGATGAAGGCTCCAATCTCTACCAC
ATCTATGAGGTGAACCTGGTCTCCGAGCACATCTGGTGTGAGGACTTCTGGTGAGGAGC
TTCTATCTGAAGAACCTGCAGACCAACGAGACGCGCACCGTGACGCAGTTCCTACTTCTG
AGTTGGTATGACCGAGGAGTCCCTTCTCTCAAGGTCCCTCCTGACTTCCGCAGAAAA
GTAACAAGTGTACAGGGGCCGTTCTTGTCCAATAATTGTTTCATTGCAGTGACGGTGCA
GGCCGGAGCGGCACCTACGTCTGATCGACATGGTTCTCAACAAGATGGCCAAAGGTGCT
AAAGAGATTGATATCGCAGCGACCTGGAGCACTTGAGGGACCAGAGACCCGGCATGGTC
CAGACGAAGGAGCAGTTTGTGAGTTCGCGCTGACAGCCGTGGCTGAGGAGGTGAACGCCATC
CTCAAGGCCCTTCCCCAGTGA
    
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Restriction Sites:

Please inquire

ACCN:

NM_130843

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:

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:

[NM_130843.1](#), [NP_570858.1](#)

RefSeq Size:

4680 bp

RefSeq ORF:

2961 bp

Locus ID:

5799

UniProt ID: [Q92932](#)

Cytogenetics: 7q36.3

Domains: Y_phosphatase, PTPc_motif

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: Type I diabetes mellitus

Gene Summary: This gene encodes a protein with sequence similarity to receptor-like protein tyrosine phosphatases. However, tyrosine phosphatase activity has not been experimentally validated for this protein. Studies of the rat ortholog suggest that the encoded protein may instead function as a phosphatidylinositol phosphatase with the ability to dephosphorylate phosphatidylinositol 3-phosphate and phosphatidylinositol 4,5-diphosphate, and this function may be involved in the regulation of insulin secretion. This protein has been identified as an autoantigen in insulin-dependent diabetes mellitus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2015]
Transcript Variant: This variant (3) lacks an alternate in-frame exon in the central coding region, compared to variant 1, resulting in an isoform (3) that is shorter than isoform 1.