

## Product datasheet for **TP721209XL**

### **PTPRN (NM\_002846) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Human protein tyrosine phosphatase, receptor type, N (PTPRN), transcript variant 1
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	Met687-Gln979
<b>Tag:</b>	N-His
<b>Predicted MW:</b>	35.6 kDa
<b>Purity:</b>	>95% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
<b>Endotoxin:</b>	Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for at least 3 months from date of receipt under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_002837</a>
<b>Locus ID:</b>	5798
<b>UniProt ID:</b>	<a href="#">Q16849</a> , <a href="#">Q96IA0</a>
<b>RefSeq Size:</b>	3649
<b>Cytogenetics:</b>	2q35
<b>RefSeq ORF:</b>	2937
<b>Synonyms:</b>	IA-2; IA-2/PTP; IA2; ICA512; R-PTP-N



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**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 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]

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

Type I diabetes mellitus