

## Product datasheet for TP313126L

### PTPRN2 (NM\_130842) Human Recombinant Protein

#### Product data:

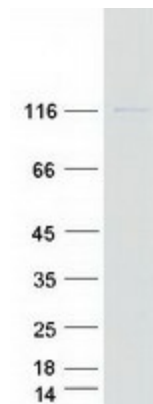
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein tyrosine phosphatase, receptor type, N polypeptide 2 (PTPRN2), transcript variant 2, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC213126 representing NM_130842 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MGPPLPLLLLLLLLLLPPRVLPAPSSVPRGRQLPGRLDGVFGRQCQVPAMDYRYEVSPVALQRLRVALQ          KLSGTGFTWQDDYTQYVMDQELADLPKTYLRRPEASSPARPSKHSVGSERRYSREGGAALANALRRHLPF          LEALSQAPASDVLARTHTAQRPPAEGDDRFSESILTYVAHTSALTYPPGPRTQLREDLLPRTLGLQLQPD          ELSPKVDSGVDRHHLMAALSAYAAQRPPAPPGEGSLEPQYLLRAPSRMPRPLLAAPQKWPSPLGSDSED          PSSTGDGARIHTLLKDLQRQPAEVRGLNGLELDGMAELMAGLMQGVHDHGVARGSPGRAALGESGEQADGP          KATLRGDSFPDDGVQDDDDRLYQEVHRLSATLGGLLQDHGSRLPGALPFARPLDMERKKEHPESSLSS          EEETAGVENVKSQTYSKDLLGQQPHSEPGAAAFGELQNMMPGPSKEEQSLPAGAQAELS DGLQLEVQPSE          EEARGYIVTDRDPLRPEEGRRLLVEDVARLLQVPSSAFADVEVLGPAVTFKVSANVQNVTTEDVEKATVDN          KDKLEETSGLKILQTGVGSKSKLFLPPQAEQEDSTKFIALTLVSLACILGVLLASGLIYCLRHSSQHRL          KEKLSGLGGDPGADATAAYQELCRQRMATRPPDRPEGPHTSRISVSSQFSDGPIPSARSASSASSWSEE          PVQSNMDISTGHMILSYMEDHLKKNRLEKEWEALCAYQAEPNSSFVAQREENVPKNRSLAVLTYDHSRV          LLKAENSHSHSDYINASPIMDHDPRNPAYIATQGPLPATVADFWMVWESGCVIVMLTPLAENGVRQCY          HYWPDEGSNLYHIYEVNLVSEHIWCEDFLVRSFYLNKLNQTNETRTVTQFHFLSWYDRGVPSSSRSLDFR          RKV NKCYRGRSCPIIVHCSDGAGRSPTYVLDMLVNLKMAKGAKEIDIAATLEHLRDQRPGMVQTKEQFEF          ALTAVAEVNAILKALPQ</p> <p><b>SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	109.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_570857</a>
<b>Locus ID:</b>	5799
<b>UniProt ID:</b>	<a href="#">Q92932</a>
<b>RefSeq Size:</b>	4716
<b>Cytogenetics:</b>	7q36.3
<b>RefSeq ORF:</b>	2994
<b>Synonyms:</b>	IA-2beta; IAR; ICAAR; PTPRP; R-PTP-N2
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>Protein Pathways:</b>	Type I diabetes mellitus

### Product images:



Coomassie blue staining of purified PTPRN2 protein (Cat# [TP313126]). The protein was produced from HEK293T cells transfected with PTPRN2 cDNA clone (Cat# [RC213126]) using MegaTran 2.0 (Cat# [TT210002]).