

Product datasheet for **RC234994**

PTPRN (NM_001199764) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPRN (NM_001199764) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTPRN
Synonyms:	IA-2; IA-2/PTP; IA2; ICA512; R-PTP-N
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC234994 representing NM_001199764
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTCCCAAGGATTGTCCTGGCAGCATGACCTCACCCAGTATGTGATCTCTCAGGAGATGGAGCGCATCC
CCAGGCTTCGCCCCCAGAGCCCGTCCAAGGGACAGGTCTGGCTTGGCACCCAAGAGACCTGGTCTGC
TGGAGAGCTGCTTTTACAGGACATCCCCACTGGCTCCGCCCTGTGCCAGCATCGCTTCCACAACCA
CCAGTGGGCAAAGGTGGAGCTGGGGCCAGCTCCTCTGTCCCCTCTGCAGGCTGAGCTGCTCCCGCCTC
TCTTGGAGACCTGCTGTGCCCCACAGCCTCCCCACCCTTCACTGAGTTACGAACCTGCCTTGTGCA
GCCCTACCTGTTCCACCAGTTTGGCTCCCGTATGGCTCCAGGGTCTCAGAGGGTCCCCAGGGATGGTC
AGTGTCCGCCCCCTGCCAAGGTGAAGCCCTGCCCTTTCAGCAGAAGTGCCTCAAGGGCATATTTG
GGGACCACCTGGCCACTCTACGGGGACCTTCCAGGGCCTTACCTGCCAGCTTTTTCAAGACTTGG
GCTGCTCTATCTGCCCCAGGAGTTGCCAGCACCCAGCAGGGCCAGGGTCCAAGGCTGCCAGAGCAAGGG
AGCAGCAGCCGGGAGAGGACTCCCCAGAGGGCTATGAGAAGGAAGGACTAGGGGATCGTGAGAGAAGC
CTGCTTCCCCAGCTGTGCAGCCAGATGCGGCTCTGCAGAGGCTGGCCGCTGTGCTGGCGGGCTATGGGGT
AGAGCTGCGTCAGCTGACCCCTGAGCAGCTCTCCACACTCCTGACCCCTGTGCAGCTACTGCCAAGGGT
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CCTTACGGGTGAGCAGTGTGCTCTCCAGTTCAGCGACGACCCAGGCCAGCCCACTGCCACAGCA
GCACCCGCTCCTGGTGCAGGAGCCGGCCAAAGCCAACATGGACATCTCCACGGGACACATGATTCTGGC
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GCTCTAAGGACCAGTTTGAATTTGCCCTGACAGCCGTGGCGGAGGAAGTGAATGCCATCTCAAGGCCCT
GCCCCAG

ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234994 representing NM_001199764
 Red=Cloning site Green=Tags(s)

MSQGLSWHDDL TQYVISQEMERIPRLRPPEPRDRSGLAPKRPGPAGELLQDIPTGSAPAAQHRLPQP
 PVGKGGAGASSLSPLQAELLPLLEHLLLPQPPHPSLSYEPALLQPYLFHQFGSRDGSRVSEGSFGMV
 SVGPLPKAEAPALFSRTASKGIFGDHPGHSYGDLPGPSAQLFQDSGLLYLAQELPAPSRARVPRLEQGS
 SSSRAEDSPEGYEKGLGDRGEKPASPAVQPDAAALQRLAAVLAGYGVLRQLTPEQLSTLLTLLQLLPKG
 AGRNPGGVVNVGADIKKTMEGPVEGRDTAELPARTSPMPGHPTASPTSSSEVQQVSPVSSEPPKAARPPV
 TPVLEKKSPGQSQPTVAGQPSARPAEEYGYIVTDQKPLSLAAGVKLLEILAETHVHMSGSFINISV
 GPALTFRIRHNEQNL SLADVTQQAGLVKSELEAQTGLQILQTVGQREAAAVLPQTAHSTSPMRSVLLT
 LVALAGVAGLLVALAVALCVRQHARQQDKERLAALGPEGAGDITFEYQDLCRQHMTKSLFNRAEGPPE
 PSRVSSVSSQFSDAAQSPSSHSSTPSWCPEPAQANMDISTGHMILAYMEDHLNRDRLAKEWQALCAYQ
 AEPNTCATAQEGEKNRHPDFLPYDHARIKLVESPSRSDYINASPIIEHDPMPAYIATQGPLSHT
 IADFWQMVWESGCTVIVMLTPLVEDGVKQCDRYWPDEGASLYHVVEVNLVSEHIWCEDFLVRSFYLNKVV
 TQETRTL TQHFHLSWPAEGTPASTRPLLDFFRRKVNKCYGRSFCPIVHCSGAGRTGTIYILIDMVLNRMA
 KGVKEIDIAATLEHVRDQRPGLVRSKDQFEFALTAVAEEVNAILKALPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

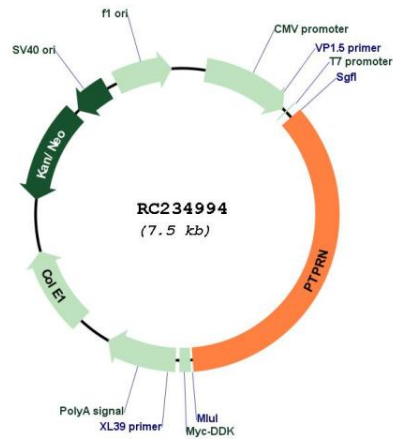
Cloning Scheme:



ACCN: NM_001199764

ORF Size:	2667 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001199764.2
RefSeq Size:	3570 bp
RefSeq ORF:	2670 bp
Locus ID:	5798
UniProt ID:	Q16849
Cytogenetics:	2q35
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Type I diabetes mellitus
MW:	96.7 kDa
Gene 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]

Product images:



Circular map for RC234994