

Product datasheet for **SC216694**

PTP1B (PTPN1) (NM_002827) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	PTP1B (PTPN1) (NM_002827) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	PTPN1
Synonyms:	PTP1B
ACCN:	NM_002827
Insert Size:	2000 bp



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Insert Sequence: >SC216694 3'UTR clone of NM_002827
 The sequence shown below is from the reference sequence of NM_002827. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAGCGATCGCC
TACAGGTTCTGTTC AACAGCAACACATAGCCTGACCTCTCCACTCCACTCCACCCACTGTCCGCC
TCTGCCCGCAGAGCCACGCCCGACTAGCAGGCATGCCGCGGTAGGTAAGGGCCGCGGACCGCGTAGA
GAGCCGGGCCCGGACGGACGTTGGTTCTGCACTAAAACCCATCTTCCCGGATGTGTGTCTCACCCCT
CATCCTTTTACTTTTGGCCCTTCCACTTTGAGTACCAAATCCACAAGCCATTTTTTGGAGAGAGTGAA
AGAGAGTACCATGCTGGCGGCGCAGAGGGAAGGGGCTACACCCGCTTGGGGCTCGCCCCACCCAGGG
CTCCCTCTGGAGCATCCAGCGGGCGGCACGCCAACAGCCCCCCTTGAATCTGCAGGGAGCAACT
CTCCACTCCATATTTATTTAAACAATTTTTTCCCAAAGGCATCCATAGTGCCTAGCATTCTTGTAA
CCAATAATGTATTTAAATTTTTTGTATGTCAGCCTTGCATCAAGGGCTTTATCAAAAAGTACAATAATA
ATCCTCAGGTAGTACTGGGAATGGAAGGCTTGGCCATGGGCTGCTGCGTCAGACCAGTACTGGGAAGG
AGGACGGTTGTAAGCAGTTGTTATTTAGTGATATTGTGGGTAACGTGAGAAGATAGAACAATGCTATAA
TATATAATGAACACGTGGGTATTTAATAAGAAACATGATGTGAGATTACTTTGTCCCGCTTATTCTCT
CCCTGTTATCTGTAGATCTAGTTCTCAATCACTGCTCCCCCGTGTGATTAGAATGCATGTAAGGTCT
TCTTGTGCTCTGATGAAAAATATGTGCTGAAATGAGAACTTTGATCTCTGCTTACTAATGTGCCCA
TGTCCAAGTCCAACCTGCCTGTGCATGACCTGATCATTACATGGCTGTGGTTCCTAAGCCTGTTGCTGA
AGTCATTGTCGCTCAGCAATAGGGTGCAGTTTTCCAGGAATAGGCATTTGCCTAATTCCTGGCATGACA
CTCTAGTGACTTCTGGTGAGGCCAGCCTGCTGTTGACAGCAGGGTCTTGTGTAACCTCAGACATTC
CAAGGGTATGGGAAGCCATATTCACACCTCACGCTCTGGACATGATTTAGGGAAGCAGGGACACCCCC
GCCCCACCTTTGGGATCAGCCTCCGCCATTCCAAGTCAACACTCTTCTTGAGCAGACCGTGATTTGG
AAGAGAGGCACCTGCTGGAACACACTTCTTGAACAGCCTGGGTGACGGTCTTTAGGCAGCCTGCC
GCCGTCTCTGTCCCGTTCACCTTGCCGAGAGAGGCGCTGCTGCCACCCCTCAAACCTGTGGGCGCT
GATGGTGTCTCAGACTCTTCTGCAAAGGGAAGTGAAGACCTCCACATTAAGTGGCTTTTTAACATGAA
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GAAGCCAGTACAGAGAAATCTGTGGTGGGAACATTCAGGTGTCACCCTGCAGAGCTATGGTGAGGTG
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TTGGAGAGCAGCTGGCTCTCCACCTTGTACATTATGTTAGAGAGGTAGCGAGCTGCTGCTATAT
GCCTTAAGCCAATATTTACTCATCAGGTCAATATTTTTACAATGGCCATGGAATAAACCATTTTTACA
AAAATAAAAAAAGCAAGGTGTTTTGGTATAATACCTTTTTCAGGTGTGTGGATACGTGGCTG
CATGACCGGGTGGGTGGGGGGAGTGTCTCAGGGTCTTGTGACCTCACAGAACTGTCAGACTGTAC
ACGCGT AAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_002827.4](#)

Summary:

The protein encoded by this gene is the founding member of the protein tyrosine phosphatase (PTP) family, which was isolated and identified based on its enzymatic activity and amino acid sequence. PTPs catalyze the hydrolysis of the phosphate monoesters specifically on tyrosine residues. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. 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 has been shown to act as a negative regulator of insulin signaling by dephosphorylating the phosphotyrosine residues of insulin receptor kinase. This PTP was also reported to dephosphorylate epidermal growth factor receptor kinase, as well as JAK2 and TYK2 kinases, which implicated the role of this PTP in cell growth control, and cell response to interferon stimulation. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2013]

Locus ID:

5770

MW:

74.6