

Product datasheet for **SC126867**

PTPN18 (BC031076) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN18 (BC031076) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPN18
Synonyms:	BDP1; PTP-HSCF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for BC031076, the custom clone sequence may differ by one or more nucleotides

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CTCTCCCGCGGCGTCCACACTCGCCGCGCGCGCGGCGGCGGCTGGACCTTGCTGGCCAGCGCGCCAT
GAGCCGCAGCCTGGACTCGGCGCGGAGCTTCTGGAGCGGCTGGAAGCGGGGGCGGCGGAGGGGGCA
GTCTCGCCGGCGAGTTCAGCGTGAGTGGCACACGGGGTCCGCGAGCGGCGGCCCGGCCCTGGCCCTG
CGTACGCCTGTCTCCGCGCACGGCGGGCTCTGCCTTTCTGTCTCGGTGTCCCGGTGTCTCCCGCCTC
GGGGGTCTCTCCGTGTTTCTCTCCCCAGCACTTCTCTGTGCTCTTGTGTCTCCGTCTTCACTCTCTG
CCCCCGGCCCGGAGCGCGACGTCCACGGCCAGGCCGGGACGGACCGTGCACACCCTCGTTCCCGGTGT
CCTCGTCGCGCTCCCGGAACAACCTGGCTGCGGGCGGGACAGGTGGGGCGGGCGCCGAGGGGAGGGCGG
GCGGCCCTGTGCGCTGGACAGCCCCGGCCCCGCGCTTCTGGCGACCTGACTGTCCCCTGTGACCACAG
GAAGGAAGGGGCTGCAGCAGGGCGAAGAGGAACACGGAGGCTGTGGCGTGGTGAAGGTGTGAACGCCGG
CTCGAATCCGCGTCCGGGCCGAATCCGCTTCCCGTCCCGAATCCGCGTCCGGCCATCCGCGTGTGGT
CAGGCGGTCTACCTGGCCCTCTGACCTCGGCTTCTCCCTGGTAAAATGGGACATGAATGACCAAAT
GGTCTAAGGATTAATGATGTGGGTGAAAAGCACTTAGTACATATTGGGCGCACACTTCGTAGGGCGGTT
CGTCACTGCCTATAAAGATTCTAAACGTGGGCCAGGTGCGGTGGCTCACACCTGTAATCCCAGCACTTTG
GGAGGCCGAGGTGGGAGGATCGCTTGAGCTCAGGAGTTCGAGACCAGCCTGGGCAACACAGCGAAACCC
GTCTCTACTAAAAATACAAAAATCAACTGGGCATGGGCGCATGCCTGTAATCCCAGCTACTAGGGAGCAG
AGACAGGGGACTCGCTTGAACCTGGGAGGCAGAGGTGACGTGAGCTGAGATGGTTCCACTGCACAGCTG
AGATGGTGCCACTGCACTCCAGCCTGGGCCACAGAGTGAATCCCATCTCAAACAAAACAAAACAAACA
AAAACTAAACGTTACAATACAGGTAGTGCAAGCCAGCATTAGGAAGGCTCACGCAGAATGCTAGGCA
CTGTACATACAGTTGATGACGTGTTAAAGTGAATCGCTTATGTACCAGACATAGAAACATACCATA
AAACGCATAAACTGATATATGGTGACATGTATCAAGTTTAGAAATATGACAAATATATAAAAAGTATTATA
AATGACCGTTTATACAATAAACATTGCATAAAGTGCATAAAAACAATAACAACAAATGAATATAACAAAGATT
ATAATTTATAAAATGACCAAAGTATTTGATAAATTCATAAGTAGATATAAAATATGTAACAGATGGCCG
GGCACGGTGGCTCACGCCTATAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGTCAGGAG
ATCCACACCATCTGGCTAACACGGTGAACCCCGTCTCTACTAAACACACAAAAAATTAGCTGGGCGTG
GTGGCGGGCGCCTGTAGTCCCAGCTACTCGGTGGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGGCGG
AGCTTGACGTGAGCCGAGATCGCGCCACTGCAGTCCAGCCTGGGCAACAGAGCGAGACTACATCTCAAAA
AAAAAAAAAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for BC031076 unedited

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ATTTTGTAAATACGACTTACTATAGGGCGGCCGCAATTCGGCACGAGGCCGCGGCCAT
GAGCCGCAGCCTGGACTCGGCGCGGAGCTTCTGGAGCGGCTGGAAGCGGGGGCGGCCG
GGAGGGGGCAGTCTCGCCGGCGAGTTCAGCGTGAGTGGCACACGGGGTCCGCGAGCGGC
GCGCCCCGGCCCTGGCCCTGCGTACGCCTGTCTCCGCGCACGGCGGGCTCTGCCTTCT
GTCTCGGTGTCCCGGTGTCTCCCGCCTCGGGGGTCTCTCCGTGTTTCTCTCCCAGC
ACTTCTGTGCTGCTTGTCTCCGTCTTCACTCTCTGCCCCCGGCCCGGAGCGCG
ACGTCCACGGCCAGGCCGGGACGGACCGTGCACACCCTCGTTCCCGGTGTCTCGTCGCG
CTCCCGGAACAACCTGGCTGCGGGCGGGACAGGTGGGGCGGGCGCCGAGGGGAGGGCGG
GCGGCCCTGTGCGCTGGACAGCCCCGGCCCCGCGCTTCTGGCGACCTGACTGTCCCCT
GTGACCACAGGAAGGAAGGGGCTGCAGCAGGGCGAAGAGGAACACGGAGGCTGTGGCGTG
GTGAGGGTGTGAACGCCGGGCTCGAATCCGCGTCCGGGCCGAATCCGCTTCCCGTCCCG
AATCCCGCTCCCGCCATCCGCGTGTGGTCCAGCGGTCTACCTGGCCCCCTGACCTCG
GCTTCTCCCTTGGNNTGAATGGGACATGAATGACCNACTGGTCTAANGATTAATGATG
TGGGGTAAAAGCACTTTAGTACATATGGGCGCCACTTCGTAGGGCGGTTCTGCTCACTGCTA
TAAGATCTAANCCTGGCCAGNNGGCGGGGCTCACACTGTATCCACACTTTTGAAGGCCA
GGTGGGAAGATCGCTGAC
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3' Read Nucleotide Sequence:	>OriGene 3' read for BC031076 unedited CCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTAAAATGGAGTCTCGCTCTG TTGCCAGGCTGGACTGCAGTGGCGCATCTCGGCTCACTGCAAGCTCCGCCTCCCGGT TCACGCCATTCTCTGCCTCAGCCACCCGAGTAGCTGGGACTACAGGCGCCGCCACCAC GCCCAGCTAATTTTTGTGTGTTAGTAGAGACGGGTTTCACCGTGTAGCCAGGATGG TGTGGATCTCCTGACCTCGTGATCCGCCGCTCGACCTCCCAAAGTGCTGGGATTATAG GCGTGAGCCACCGTGCCCGGCCATCTGTTACATATTTATATCTACTTATGAATTTATCA AATAACTTTGGTCATTTTATAAATTATAATCTTTGTTATATTCATTTGTTGATTGTTTT ATGCAATTATGCAATGTTTATTGTATAAACGGCCATTTATAACTTTTTATATTTGTC ATATTTCTAAACTTGATACATGTCACCATATATCAGTTTATGCGTTTGTATGGTATGTTT CTATGTCTGGTACATAAGCGATTACACTTTAAACAGTCATCAACTGTAATGTACAGTGC CTAGCATTCTGCGTGAGCCTTCTAATGCTGGGCTTGCACTACCTGTATTGTAACGTTTA GATTTTTTTGTTGGGTTTGTGTTGTTGAGATGGGATCTCACTCTGTGGCCACGCTGG AGTGCAATGGCACCATCTCAGCTGTGCAGTGGGACCATCTCAGCTTACTGCAACCTTTG CTTCCAGTTCAAGCGAGATCCCTGTCTCTGCTCCCTAGTAGCTGGGATTACAGGCATGCG CCCATGCCAGTTGATTTTTGTAATTTAGGAAAACAGGGTTTCCTTGGTTGCCAAGCTG TCTTGAACCTGACTAAAGGAACCTTCCACCTGGCCTCCCAAGGTTGGATTACAGGGGAA CCCACGCCCTGCCCTTTATAATCTTTAGGCAAGACCACCCCTACAAAGGGG
Restriction Sites:	NotI-NotI
ACCN:	BC031076
Insert Size:	1790 bp
OTI Disclaimer:	The sequence of an 'OriGene Unique Variant' differs significantly from the associated reference. It represents a novel splice variant from the same gene locus of the reference. Although such variants are true transcripts and present opportunity for discoveries, they are not yet curated by NCBI and should not be used if the exact reference accession sequence is required.
OTI Annotation:	This TrueClone was found to represent an alternative form of the specific reference to which it is associated. Its Open Reading Frame (ORF) may represent a novel form or alternative splice variant. By virtue of it being a true transcript (cDNA clone not PCR product), it provides a biologically relevant copy of its mRNA template. For more details, please evaluate the sequence information provided on this website or contact our customer care specialists.
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:	<u>BC031076.1</u>
RefSeq Size:	1831 bp

RefSeq ORF: 1831 bp

Locus ID: 26469

Cytogenetics: 2q21.1

Protein Families: Druggable Genome, Phosphatase

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, the mitotic cycle, and oncogenic transformation. This PTP contains a PEST motif, which often serves as a protein-protein interaction domain, and may be related to protein intracellular half-live. This protein can differentially dephosphorylate autophosphorylated tyrosine kinases that are overexpressed in tumor tissues, and it appears to regulate HER2, a member of the epidermal growth factor receptor family of receptor tyrosine kinases. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2008]