

Product datasheet for **SC102683**

PTPN18 (NM_014369) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN18 (NM_014369) 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:

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>OriGene ORF sequence for NM_014369 edited
GGGCGGCCGGAATTCGGCACGAGGGAGGCAAGGGCGGGGACTCAGTCACCGGCCTCCGC
CTCCCCGGCGCTCCACACTCGCCGCGCGCGCGCGCCGGGCTGGACCTTGTGGCCCGC
GGCGCCATGAGCCGCAGCCTGGACTCGGCGCGGAGCTTCTGGAGCGGCTGGAAGCGCG
GGCGGCCGGGAGGGGGCAGTCTCGCCGCGAGTTCAGCGACATCCAGGCCTGCTCGGCC
GCCTGGAAGGCTGACGGCGTGTGCTCCACCGTGCCGCGCAGTCGCCAGAGAACGTGAGG
AAGAACCCTACAAAGAGCTGCCTTATGATCAGACGCGAGTAATCCTCTCCCTGCTC
CAGGAAGAGGGACACAGCGACTACATTAATGGCAACTTCATCCGGGGCGTGGATGGAAGC
CTGGCCTACATTGCCACGCAAGGACCCTTGCTCACACCCTGCTAGACTTCTGGAGACTG
GTCTGGGAGTTTGGGGTCAAGGTGATCCTGATGGCCTGTCGAGAGATAGAGAATGGGCGG
AAAAGGTGTGAGCGGTAAGTGGCCAGGAGCAGGAGCCACTGCAGACTGGGCTTTTCTGC
ATCACTCTGATAAAGGAGAAGTGGCTGAATGAGGACATCATGCTCAGGACCCTCAAGGTC
ACATCCAGAAGGAGTCCCGTTCTGTGTACCAGCTACAGTATATGCTTGGCCAGACCGT
GGGGTCCCAGCAGTCTGACCACATGCTCGCCATGGTGGAGGAAGCCCGTCCCTCCAG
GGATCTGGCCCTGAACCCCTCTGTGTCCACTGCAGTGCAGGTTGTGGGCGAACAGGCGTC
CTGTGCACCGTGGATTATGTGAGGCAGCTGCTCCTGACCCAGATGATCCACCTGACTTC
AGTCTCTTTGATGTGGTCTTAAGATGAGGAAGCAGCGGCTGCGGCCGTGCAGACAGAG
GAGCAGTACAGTTTCTGTACCACACGGTGGCTCAGATGTTTCTGCTCCACTCCAGAAT
GCCAGCCCCACTACCAGAACATCAAAGAGAATTGTGCCCACTTACGACGATGCCCTC
TTCCTCCGACTCCCCAGGCACTTCTCGCCATACCCCGCCACCAGGAGGGGTCTCAGG
AGCATCTCTGTGCCCGGGTCCCCGGGCCACGCCATGGTGACACCTACGCGGTGGTGCAG
AAGCGCGGGCTCCAGCGGGCGCCGGGAGTGGGACGCAGACGGGGACGGGGACGGGGCG
CGCAGCGGGAGGAGGCGCCGCTTACAGCAAGGTGACGCGCGCGCCAGCGACCCGGG
GCGCACGCGGAGGACGCGAGGGGGACGCTGCCTGGCCGCGTTCTGCTGACCAAAGTCT
GCCGATCTGGCCCTACGAGGACGTGGCGGGTGGAGCTCAGACCAGTGGGCTAGGTTTC
AACCTGCGCATTGGGAGGCCGAAGGGTCCCCGGGACCCGCTGCTGAGTGGACCCGGGTG
TAAGTCTAACGCCAGTTCCTGCCTGTTGCCTTGTGAGCTCGGACTGCTGATGCCCCGG
TGCTGCTGAGCGCGTGCAGCAATGGAACAGTGGGCTGGATCAAAGTTAAAGTTTCT
CAGGGTGGGAAATGTGGGAGGCTTTGCCCAATGACTGTAGCATTCAAGGCTTGGGCTG
GAGGAGGTAGCTAGGGTATAGTGGTGGTGGGCTGCACAGAGCAGATTAAGAAAGAAG
ATCAGGAAGGGCATGACCCCTGAGTTATG
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_014369 unedited
AAAGAGTTTACAATAGTAAACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGAGGCA
AGGCGGGGACTCAGTCACCGGCTCCGCCTCCCGCGCGTCCACACTCGCCGCGCGCGCG
GCGGCCGGGCTGGACCTTGTGGCCCGCGGCCATGAGCCGCAGCCTGGACTCGGCGCG
GAGCTTCTGGAGCGGCTGGAAGCGCGGGCGGCCGGGAGGGGGCAGTCTCGCCGGCGA
GTTACGCGACATCCAGGCTGCTCGGCCGCTGGAAGGCTGACGCGTGTGCTCCACCGT
GGCCGGCAGTCCGCCAGAGAACGTGAGGAAGAACCCTACAAAGACGTGCTGCCTTATGA
TCAGACGCGAGTAATCCTCTCCCTGCTCCAGGAAGAGGGACACAGCGACTACATTAATGG
CAACTTACCCGGGGCGTGGATGGAAGCCTGGCCTACATTGCCACGCAAGGACCCTTGGC
TCACACCCTGCTAGACTTCTGGAGACTGGTCTGGGAGTTTGGGGTCAAGGTGATCCTGAT
GGCCTGTGAGAGATAGAGAATGGGCGGAAAAGGTGTGAGCGGACTGGGCCAGGAGCA
GGAGCCACTGCAGACTGGGCTTTTCTGCATCACTCTGATAAAGGAGAAGTGGCTGAATGA
GGACATCATGCTCAGGACCCTCAAGGTACATTCCAGAAGGAGTCCCGTTCTGTGTACCA
GCTACAGTATATGCTTGGCCAGACCGTGGGGTCCCAGCAGTCTGACCACATGCTCGC
CATGGGTGGAGAAGCCCGTCCGCTCCAGGGATCTGGCCCTGAACCCCTCTGTGTCCACTG
CAGTGGCGGTTGTGGGCGAACAGGCGTCTGTGCACCGTGGNATATGTGNAGCAGCTGC
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014369 unedited TGGCGTGTGCCTCCTCTTTTTCTTTAAACAGCCGCTTCAAGTTTTATCCTAGCAGTAAC CCTACCATGGGCCATTTAAAGTGTTCAAATCTTATGGGGCTGAGCCTGGTGGCTCACAC CTGTAATCTCAGCACTTTGGGAGGCTGAGGCAAGACGATTGCTCGACGTTGGCAGTTCAA GACCAGTCTGGGCAACATGGCAAAACTCATTACTTAAAAAAAAAAAAAATTACACCTGT AGTCCCACCTCTCCGCAGGCTGCGTGAACAGCAAGGGTCTATCTGGTTGGGATTCTGA CTGGCGTAGGTTTGCCTGGACTCTATCTCATTAGGTACCTGGTTCGTGAGGGACCTTCC AGTCTGTATAATTGTTTCTTTCCCTTATTCTTCTTTTCTTTGTCTCTCCCTCCTCACC CCCCTCCCCTTCCCTTTTGTTCCTTATTCCTTCCCCTCCTTTCCCTCTTCGCTCCCAT CTCCTCTCACTTTTTACTACTCCCCCCCCCTACCATCCCTGTTTTCTTTCTCCCCCTC CTTCCCCCTCCCTATCTTTTATCATCCCTCACTTCTTTTCCCAATTCACCTTTGT TCTACGCCCTTTCTCTCCCTCCCTTCTTACTCTTCTTTTTCCCTTTTTCTTCTTC TCCCATCTTTTTACGCTCCCACCTCCCTTTTTCTCCCCTTTTCTCACCTCCCATCAC CCTTTCTATTACATCCCCCACCCTCTTCTTTCCCTTCTCCTCCCCCGACTCCCTA TCTACCTCTACTCCTCCCATCTTCTTATCATATTCCTATTTTCTCTAACTTTTC CCCCTTCACTTTTCTCTCCCATCTCCATCGCTTTTTATCCCATATCGGTACCAATA CTCCCTCACCTCCCCTCTGTTTATATCGCTCCACCTTCCCACATTTATATAACTCA ATTTCT
Restriction Sites:	NotI-NotI
ACCN:	NM_014369
Insert Size:	3000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_014369.2 , NP_055184.2
RefSeq Size:	2837 bp
RefSeq ORF:	1383 bp
Locus ID:	26469
UniProt ID:	Q99952
Cytogenetics:	2q21.1
Domains:	Y_phosphatase, PTPc_motif

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-life. 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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).