

Product datasheet for **SC107908**

PTPH1 (PTPN3) (NM_002829) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPH1 (PTPN3) (NM_002829) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPH1
Synonyms:	PTP-H1; PTPH1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_002829 edited
 CGGCCCGAATTCGGCACGAGCCAGGTCGCGCCGCGAGCGAGCTCCGCGCCGCCGCAC
 GCGCGACCTACCTGGCGCTCCGCGCCCCGGATGCTGCAGGTTATTCAGCGATAGTTATG
 ACCTCCCGGTTACGTGCGTTGGGTGGAAGAATTAATAATATACGCACCTCGGAGTTACCC
 AAAGAGAAAACCTCGATCAGAAGTCATTTGCAGCATCCACTTTTTAGATGGCGTGGTACAG
 ACCTTTAAAGTTACTAAACAAGACTGGCCAGGTTCTTCTGGATATGGTGCACAACCAC
 CTGGGTGTGACTGAAAAGGAATATTTGGTTTACAGCATGATGACGACTCCGTGGACTCT
 CCTAGATGGCTGGAAGCAAGCAACCCATCAGGAAGCAGTTAAAAGGAGGTTTCCCTGT
 ACCCTGCATTTTCGAGTAAGATTTTTATACCTGATCCCAACACACTGCAGCAAGAACAA
 ACCAGGCCTTGTATTTCTTACAACCTGAAGATGGATATTTGCGAAGGAAGGTTAACCTGC
 CCTCTTAACTCAGCAGTGGTTCTAGCGTCTATGCCGTACAATCTCATTTTGGAGACTAT
 AATTCTTCCATACATCATCCAGGCTATCTTCCGATAGTCACTTTATACCCGATCAAAAT
 GAGGACTTTTTAACAAAAGTCGAATCTCTGCATGAGCAGCACAGTGGGCTAAAACAATCA
 GAAGCAGAATCCTGCTATATCAACATAGCGCGGACCCTCGACTTCTATGGAGTAGAACTG
 CACAGTGGTAGGGATCTGCACAATTTAGACCTAATGATTGGAATTGCTTCCGCGGGTGT
 GCTGTGTACCGAAAATACATTTGCACAAGTTTCTATCCTTGGGTGAACATTTCAAAATT
 TCTTTCAAAGGAAAAAGTTCTTATACATCAGCGACAGAAACAGGCTGAATCCAGGGAA
 CATATTTGGCCCTCAACATGCTGAATTACCGATCTTGCAAAAACCTTGTGGAAATCCTGT
 GTTGAGCACCATACGTTCTTTTCAGGCAAAGAAGCTACTACCTCAGGAAAAGAATGTTCTG
 TCTCAGTACTGGACTATGGGCTCTCGGAACACCAAAAAGTCGGTAAATAACCAATATTGC
 AAAAAGGTGATTGGCGGGATGGTGTGGAACCCAGCCATGCGGAGATCCTTATCAGTGGAG
 CACTTAGAAAACCAAGAGTCTGCCTTCTCGTTCCCTCCCATTACTCCCAACTGGCGAAGT
 CCTCGGCTCCGGCACGAAATCCGAAAGCCACGCCACTTCTGCGAGATAACCTTGCAAAAT
 GAAATGACCTACATCACGAAACGGAAGATGATTTTTACAGTACAAGGGCTCTCTGGCC
 CCTCAAGACAGCGATTCTGAAGTTTCTCAGAACCAGGACCCGACCAAGAGAGTTATCC
 GAGAACAATCCGGCACAAAGCTACCTGACCCAGAAGTCATCCAGTTCTGTGTCTCCATCT
 TCAAATGCTCCAGGCTCCTGCTCACCTGACGGCGTTGATCAGCAGCTCTTAGATGACTTC



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CACAGGGTGACCAAAGGGGGCTCCACCGAGGACGCCAGCCAGTACTACTGTGACAAGAAT
 GATAATGGTGACAGCTACTTAGTCTTGATCCGTATCACACCAGATGAAGATGGAAAAATTT
 GGATTTAATCTTAAGGGAGGAGTGGATCAAAGATGCCTCTTGTGGTATCAAGGATAAAC
 CCAGAGTACCTGCGGACACCTGCATTCCCTAAGCTGAACGAAGGGGATCAAAATCGTGTTA
 ATCAATGGCCGGGACATCTCAGAACACACGCATGACCAAGTGGTGATGTTTCATCAAAGCC
 AGCCGGGAGTCCCCTCACGGGAGCTGGCCCTGGTGATCAGGAGGAGAGCTGTCCGCTCA
 TTTGCTGACTTCAAGTCTGAAGATGAACGAACAGCTTTTCCCGAAGCCATTTTCCCC
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 GAAAGCGGGACGGTGCTGATCCAGTTTGTAGCAACTCTACAGAAAAAGCCAGTTTGGCC
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 GCCATGATGGTGCAGACATCAAGCCAGTACAAGTTTGTGTGGAAGCGATTCTTCGTGTG
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 TCCTCTTTCCCAAGGGCATCCTCCTTGAAGAGGAGGACAGACCTCTCTGGAAGCAGCAA
 GAGGAACCCAGTAGCTGTGGGAAAGGAATGGGCACCTCTGAACCCAGGCATTTAAACTTC
 TATAGAAAAAGATATCGTGTACATAGGAACTGGTGTAGATAAGCATGCAATTATGGCATCA
 TTTAGGCCTGTATTTCTATGAAAGATACAAAAAGGATCTCAGTTTGGGGCCTGCTCTAA
 TGCCTTCTCCCTAACATCACCACACACCCCCTGTGGCATCCTGGAGCAATTGAGACC
 GGACACCCACAGAGCTGTTGCTCCCGCAACAAGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002829 unedited
 NNGGTTCANATTTTGTATACGACTCCTATAGGCGGCNCGGATTTCGGCACGAGCCAGGTC
 GCGCCGCGAGCGAGCTTCCGCGCCGCCGACGCGGACCTACCTGGCGCTCCGCGCCCC
 CGGATGCTGCAGGTTATTCAGCGATAGTTATGACCTCCCGGTTACGTGCGTTGGGTGAA
 GAATTAATAATATACGCACCTCGGAGTTACCCAAAGAGAAAACTCGATCAGAAGTCATTT
 GCAGCATCCACTTTTTAGATGGCGTGGTACAGACCTTTAAAGTTACTAAACAAGACTG
 GCCAGTTCTTCTGGATATGGTGCACAACCACCTGGGTGTGACTGAAAAGGAATATTTTG
 GTTTACAGCATGATGACGACTCCGTGGACTCTCCTAGATGGCTGGAAGCAAGCAAACCA
 TCAGGAAGCAGTTAAAAGGAGGTTTCCCCTGTACCCTGCATTTTCGAGTAAGATTTTTTA
 TACCTGATCCCAACACACTGCAGCAAGAACAACCCAGGCATTTGATTTCTTACAACCTGA
 AGATGGATATTTGCGAAGGAAGGTTAACCTGCCCTCTTAACCTCAGCAGTGGTTCTAGCGT
 CCTATGCCGTACAATCTCATTTTGGAGACTATAATTCTTCCATACATCATCCANGCTATC
 TTTCCGATAGTCACTTTATACCCGATCAAAATGAGGACTTTTTAACCAAAGTCGAATCTC
 TGCATGAGCAGCACAGTGGGCTAAAACATTAGAAGCCGAAATCTGCTTTATCCACATAAC
 GCGGACCTCGACTTCTATGGAGTANAACCTGGCCAATGGTACGGACCTCCCATCAAACC
 TAAAGCTCGAAATGCTTCCCGGTGTTCCGTTCCNACCCCTATACTTTCCACAGAA

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002829 unedited GGCGACAATTTATCTTCTCTTAAATAATAATTTGCTACACTCCCTGTCACAAATTTAAAA AAATTTAACACGGTATTCACAAAGGCAGAATCTTTAGGACAATCAAATGATGGTGCTC TTACAATAAATTAACATCAGGATTGTGTTTCATATTCAGATAGCTCTGATCCTATCCCCTT GAAACGCAATGGAGACCATTCGACTGGGGTGAATGCACTTATCTGTTCCCTCCTTCTC AGACTCCGCCTTCATCTATCCTCCCGCGCACCTGAATCCCTTTGGACTCCTGGTATAAA TTGACCCCTGGTCCCGCGCCCGTCTCCGCCCGCCCGTCCCTTTACCCCTTTACCCCTTT CCCTCGATGCCCTTTCTCCTCCTCCCTCCCTTTTTCTCGTCCATGACCCACCCGTCC TTGCCTCGTGTGCCGCGCTCCTCCGTCCCGCCCGCGCCGGTCTTCCGCCTTTCTCTTCC TCGCCGCTTCCACTTTTCTCGCTTTTTTCCCCCTCTCCGTTGCCCTCCCGTTCC CGTTCCCTCTCCCTATCAGTCCCTCCCTGTTTCCCGCCCTTTCTGCTTCGGTGTTC TCCCGCTCCGCATCGGTCGTTTTTCCCTTTTTCGCTCATTCCGTCTTCCCGTTCCG CTCGTTTCCCGTCCCGTCCGTCGCGTATCTTCGTCGCCGCTTCCCGTCCCGT TGCCCGTATTTCCGTTACGCGCCGGTGTATCCCGTGTTCGCCGCTCATCCCGTGGC GCCGCACCTTGCCAATGCCGTTTCATCGCGCCCGTGCCTATATCGCGCCGAGTTC GCTATCTGCGNTTTCGTCCGCCGTGCGCGCCGCTCTCCGTCTCGCGCTCGCCGCTGT TACACGCGCTGTGTTACTCGCGCTGTCTCGCGCTTCGATACGTTTAGTTTCGCCATAAGT TCGCCGCGTGTATNCGCGCTCGCGCGCCNCACTGCGCGTGTATTGCCGCGTNTTC TCGCGCCATTAACGCGCGGCCGACGCTCTCTGTGCTTCGTCGACGCTTGTATCTG CGTATGTGGTACGGCCGCGTCTGCGCCCGTATTNTACGGCGGCCACTACTCTCGC TTTNTATTCCGATCGTCGCGCACGCCGTCCCGTCGACGCNATGCCGCTGCGNACACTCC ACGCG
Restriction Sites:	NotI-NotI
ACCN:	NM_002829
Insert Size:	5000 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_002829.2 , NP_002820.2
RefSeq Size:	4104 bp
RefSeq ORF:	2742 bp
Locus ID:	5774
UniProt ID:	P26045

Cytogenetics: 9q31.3

Domains: Y_phosphatase, B41, PDZ, 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, mitotic cycle, and oncogenic transformation. This protein contains a C-terminal PTP domain and an N-terminal domain homologous to the band 4.1 superfamily of cytoskeletal-associated proteins. P97, a cell cycle regulator involved in a variety of membrane related functions, has been shown to be a substrate of this PTP. This PTP was also found to interact with, and be regulated by adaptor protein 14-3-3 beta. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2009]

Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.