

## Product datasheet for **RC226819**

### **PTPH1 (PTPN3) (NM\_001145370) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PTPH1 (PTPN3) (NM_001145370) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTPH1
Synonyms:	PTP-H1; PTPH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC226819 representing NM\_001145370  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGACCTCCCGTTACGTGCGTTGGGTGGAAGAATTAATAATATACGCACCTCGGAGTTACCCAAAGAGA  
AAACTCGATCAGAAGTCATTTGCAGCATCCAATTTTTAGATGGCGTGGTACAGACCTTTAAAGTTACTAA  
ACAAGACTGGCCAGGTTCTTCTGGATATGGTGCAACAACACCTGGGTGTGACTGAAAAGGAATATTTT  
GGTTTACAGCATGATGACGACTCCGTGGACTCTCCTAGATGGCTGGAAGCAAGCAAAGCCATCAGGAAGC  
AGTTAAAAGGAGGTTTCCCCTGTACCCTGCATTTTCGAGTAAGATTTTTTATACCTGATCCCAACACT  
GCAGCAAGAACAACCAGGCACTGTATTTCTTACAACCTGAAGATGGATATTTGCGAAGGAAGGTTAACC  
TGCCCTCTTAACCTCAGCAGTGGTCTAGCGTCTATGCCGTACAATCTCATTGGAGACTATTAATCTT  
CCATACATCATCCAGGCTATCTTCCGATAGTCACCTTTATACCCGATCAAAATGAGGACTTTTTAACAA  
AGTCGAATCTCTGCATGAGCAGCACAGTGGGCTAAAACAATCAGAAGCAGAACTCTGCTATATCAACATA  
GCGCGGACCCCTCGACTTCTATGGAGTAGAACTGCACAGTGGTAGGGATCTGCACAATTTAGACCTAATGA  
TTGGAATTGCTTCCGCGGGTGTGCTGTGTACCGAAAATACATTTGCACAAGTTTCTATCCTTGGGTGAA  
CATTCTCAAAATTTCTTTCAAAAGGAAAAAGTTTTCATACATCAGCGACAGAAACAGGCTGAATCCAGG  
GAACATATTGGGCCCTTCAACATGCTGAATTACCGATCTTGCAAAAACCTGTGGAATCTGTGTTGAGC  
ACCATACGTTCTTTCAGGCAAAGAAGCTACTACCTCAGGAAAAGAATGTCTGTCTCAGTACTGGACTAT  
GGGCTCTCGGAACACCAAAAAGCGAAGTCTCGGCTCCGGCACGAAATCCGAAAGCCACGCCACTTCTCT  
GCAGATAACCTTGCAAAATGAAATGACCTACATCACGAAACGGAAGATGATTTTTACACGTACAAGGGCT  
CTCTGGCCCTCAAGACAGCGATTCTGAAGTTTTCTCAGAACCAGCCGACCAAGAGGTTTTATCCGA  
GAACAATCCGGCACAAAGCTACCTGACCCAGAAGTCATCCAGTTCTGTGTCTCCATCTTCAAATGCTCCA  
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TATCACACCAGATGAAGATGGAAAATTTGGATTAATCTTAAGGGAGGAGTGGATCAAAAGATGCCTCTT  
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TCGTGTTAATCAATGGCCGGGACATCTCAGAACACACGCATGACCAAGTGGTGTGTTTCAAAAGCCAG  
CCGGGAGTCCCCTCACGGGAGCTGGCCCTGGTATCAGGAGGAGAGCTGTCCGCTCATTGCTGACTTC  
AAGTCTGAAGATGAAGTGAACAGCTTTTCCCGAAGCCATTTTCCCATGTGTCCGGAGGGTGGGACA  
CTTTGGAGGGATCCATGGCACAGCTAAAGAAGGGCCTCGAAAGCGGGACGGTGTGATCCAGTTTGAAGCA  
ACTCTACAGAAAAAGCCAGGTTTGGCCATCACGTTTGCAAAGCTGCCTCAAAATTTGGACAAAAACCGA  
TATAAAGATGTGCTGCCTTATGACACCACCCGGGTATTATTGCAGGGAAATGAAGATTATATTAATGCAA  
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GCATACCTGTGCACAGTTTTGGCAGTTGTCTGGGATCAGAAGTTGTCACTCATTGTGATGTTGACGACT  
CTCACAGAACGAGGGCGGACCAATGTCACCAGTACTGGCCAGATCCCCCGACGTCATGAACCACGGCG  
GCTTTACATCCAGTGTCACTCAGAGGACTGCACCATCGCCTATGTGTCCCGAGAAATGCTGGTCAAAA  
CACCCAGACCGGGGAAGAACAACACACAGTGACACATCTCCAGTACGTGCGATGGCCTGACCAGGTGTGCC  
GATGACTCCTCCGACTTTCTGGAATTTGTAACCTATGTGAGGTCTCTGAGAGTGGACAGCGAGCCGCTCC  
TAGTTCCTGCACTGCTGGAATAGGTCGAACCGGTGTGTTGGTCACTATGGAAACAGCCATGTGCCATAAC  
TGAGAGGAACCTGCCATTTACCCACTGGATATTGTCCGAAAAATGCGAGACCAGCGCCATGATGGTG  
CAGACATCAAGCCAGTACAAGTTTGTGTGTAAGCGATTCTTCGTGTGTATGAAGAAGGTTTAGTCCAAA  
TGCTGGATCCTAGT

**ACGCGT**ACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC226819 representing NM\_001145370  
 Red=Cloning site Green=Tags(s)

MTSRLRALGGRINNIRTSELPKEKTRSEVICSIHFLDGVVQTFKVKQDTGQVLLDMVHNHLGVTEKEYF  
 GLQHDDSDVSPRWLEASKAIRKQLKGGFPCTLHFRVRFIPDPNTLQQEQTRHLYFLQLKMDICEGRLT  
 CPLNSAVVLYASYAVQSHFGDYNSSIHPGYSLSHSFIPDQNEFDLTKVESLHEQHSGLKQSEAESYINI  
 ARTLDFYGVLEHSGRDLHNLDMIGIASAGVAVYRKYICTSFYPWVNIKISFKRKKFFIHQRQKQAESR  
 EHIVAFNMLNYRSCKNLWKSCVEHHTFFQAKLLPQEKVLSQYWTMGSRNTKKRSPRLRHEIRKPRHSS  
 ADNLANEMTYITETEDVFYTYKGS LAPQSDSEVSQNRSPHQESLSENNPAQSYLTQKSSSSVSPSSNAP  
 GSCSPDGVQQLLDDFHRVTKGGSTEDASQYYCDKNDNGDSYLVLIRITPDEDGKGFNLKGGVDQKMP  
 VVSRINPESPADTCIPKLENGDQIVLINGRDISEHTDQVVMFIKASRESHSRELALVIRRAVRSFADF  
 KSEDELNQLFPEAIFPMCPEGGDTLEGSMAQLKKGLESGTVLIQFEQLYRKKPGLAITFAKLPQNLDKNR  
 YKDVLPHYDTRVLLQGNEDYINASYVNMEIPAANLVNKYIATQGPLPHTCAQFWQVVDQKLSLIVMLTT  
 LTERGRTKCHQYWPDPDVMNHGGFHIQCQSEDCIAYVSREMLVTNTQTGEEHTVTHLQYVAVPDHGVP  
 DDSSDFLEFVNYVRSRVDSEPLVHCSAGIGRTGVLVTMETAMCLTERNLPIYPLDIVRKMQRDQAMMV  
 QTSSQYKFVCEAILRVYEEGLVQMLDPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

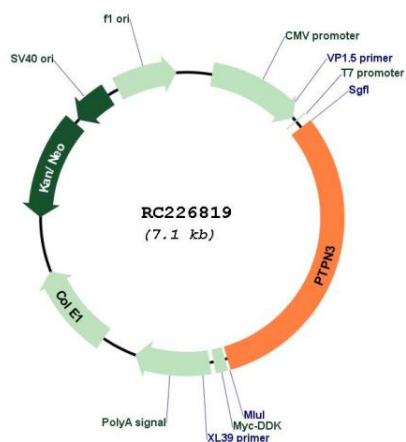
Sgfl-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_001145370
<b>ORF Size:</b>	2607 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001145370.1</a> , <a href="#">NP_001138842.1</a>
<b>RefSeq Size:</b>	8648 bp
<b>RefSeq ORF:</b>	2214 bp
<b>Locus ID:</b>	5774
<b>UniProt ID:</b>	<a href="#">P26045</a>
<b>Cytogenetics:</b>	9q31.3
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>MW:</b>	98.9 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC226819