

Product datasheet for **RG226648**

PTPH1 (PTPN3) (NM_001145368) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPH1 (PTPN3) (NM_001145368) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTPH1
Synonyms:	PTP-H1; PTPH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226648 representing NM_001145368
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCTCCCGTTACGTGCGTTGGGTGGAAGAATTAATAATATACGCACCTCGGAGTTACCCAAAGAGA
 AAACCTCGATCAGAAGTCATTTGCAGCATCCAATTTTTAGATGGCGTGGTACAGACCTTTAAAGTTACTAA
 ACAAGACACTGGCCAGGTTCTTCTGGATATGGTGCAACAACCACTGGGTGTGACTGAAAAGGAATATTTT
 GGTTTACAGCATGATGACGACTCCGTGGACTCTCCTAGATGGCTGGAAGCAAGCAAAGCCATCAGGAAGC
 AGTTAAAAGGAGGTTTCCCCTGTACCCTGCATTTTCGAGTAAGATTTTTTATACCTGATCCCAACACACT
 GCAGCAAGAACAACCAGGCCTGTATTTCTTACAACCTGAAGATGGATATTTGCGAAGGAAGGTTAAACC
 TGCCCTCTAACTCAGCAGTGGTCTAGCGTCTATGCCGTACAATCTCATTTTGGAGACTATAATTCTT
 CCATACATCATCCAGGCTATCTTCCGATAGTCACCTTTATACCCGATCAAAATGAGGACTTTTTAACAAA
 AGTCGAATCTCTGCATGAGCAGCACAGTGGGCTAAAACAATCAGAAGCAGAACTCTGCTATATCAACATA
 GCGCGGACCCTCGACTTCTATGGAGTAGAACTGCACAGTGGTAGGGATCTGCACAATTTAGACCTAATGA
 TTGGAATTGCTTCCGCGGGTGTGCTGTGTACCGAAAATACATTTGCACAAGTTTCTATCCTTGGGTGAA
 CATTCTCAAAATTTCTTTCAAAAGGAAAAAGTTTTCATACATCAGCGACAGAAACAGGCTGAATCCAGG
 GAACATATTGGGCCCTTCAACATGCTGAATTACCGATCTTGCAAAAACCTGTGGAATCTGTGTTGAGC
 ACCATACGTTCTTTCAGGCAAAGAAGCTACTACCTCAGGAAAAGAATGTCTGTCTCAGTACTGGACTAT
 GGGCTCTCGGAACACCAAAAAGCGAAGTCTCGGCTCCGGCACGAAATCCGAAAGCCACGCCACTTCTCT
 GCAGATAACCTTGCAAAATGAAATGACCTACATCACGGAACCGAAGATGTATTTTACACGTACAAGGGCT
 CTCTGGCCCCTCAAGACAGCGATTCTGAAGTTTCTCAGAACCAGCCCGCACCAAGAGTTTTATCCGA
 GAACAATCCGGCACAAAGCTACCTGACCCAGAAGTCATCCAGTTCTGTGTCTCCATCTTCAAATGCTCCA
 GGCTCCTGCTCACCTGACGGCGTTGATCAGCAGCTCTTAGATGACTTCCACAGGGTGACCAAGGGGGCT
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 TATCACACCAGATGAAGATGGAAAATTTGGATTTAATCTTAAGGGAGGAGTGGATCAAAAGATGCCTCTT
 GTGGTATCAAGGATAAACCCAGAGTCACCTGCGGACACCTGCATTCTAAGCTGAACGAAGGGGATCAAA
 TCGTGTTAATCAATGGCCGGGACATCTCAGAACACACGCATGACCAAGTGGTGTGTTTCAAAAGCCAG
 CCGGGAGTCCCCTCACGGGAGCTGGCCCTGGTGTATCAGGAGGAGAGCTGTCCGCTCATTGCTGACTTC
 AAGTCTGAAGATGAACTGAACAGCTTTTCCCCGAAGCCATTTTCCCATGTGTCCGGAGGGTGGGGACA
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 ACTCTACAGAAAAAGCCAGGTTTGGCCATCACGTTTGCAAAAGCTGCCTCAAAATTTGGACAAAAACCGA
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 GCTTTTACATCCAGTGTCAAGTGTGAGGACTGCACCATCGCCTATGTGTCCCGAGAAATGCTGGTCAAAA
 CACCCAGACCGGGGAAGAACAACACAGTGACACATCTCCAGTACGTGCGATGGCCTGACCACGGTGTGCC
 GATGACTCCTCCGACTTTCTGGAATTTGTAACCTATGTGAGGTCTCTGAGAGTGGACAGCGAGCCGCTCC
 TAGTTCCTGCAAGTGTGGAATAGTTCGAACCGGTGTGTTGGTCACTATGGAAACAGCCATGTGCCATAAC
 TGAGAGGAACCTGCCATTTACCCACTGGATATTGTCCGAAAAATGCGAGACCAGCGCCATGATGGTG
 CAGACATCAAGCCAGTACAAGTTTGTGTGTGAAGCGATTCTTCGTGTGTATGAAGAAGGTTTAGTCCAAA
 TGCTGGATCCTAGT

ACCGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG226648 representing NM_001145368
 Red=Cloning site Green=Tags(s)

MTSRLRALGGRINNIRTSELPKEKTRSEVICSIHFLDGVVQTFKVTQDTGQVLLDMVHNHLGVTEKEYF
 GLQHDDSDVSPRWLEASKAIRKQLKGGFPCTLHFRVRFIPDPNTLQQEQTRHLYFLQLKMDICEGRLT
 CPLNSAVVLYASYAVQSHFGDYNSIHHPGYLSDSHFIPDQNEFLTKVESLHEQHSGLKQSEAESYINI
 ARTLDFYGVVELHSGRDLHNLDMIGIASAGVAVYRKYICTSFYPWVNIKISFKRKKFFIHQRQKQAESR
 EHIVAFNMLNYRSCKNLWKSCVEHHTFFQAKLLLPQEKVLSQYWTMGSRNKKRSPRLRHEIRKPRHSS
 ADNLANEMTYITETEDVFYTYKGLAPQSDSEVSQNRSPHQESLSENNPAQSYLTQKSSSSVSPSSNAP
 GSCSPDGVQQLDDFHRVTKGGSTEDASQYYCDKNDNGDSYLVLIRITPDEDGKFGFNLKGGVDQKMP
 VVSRINPEPADTCIPKLNEDQIVLINGRDISEHTDQVVMFIKASRESHSRELALVIRRAVRSFADF
 KSEDELNQLFPEAIFPMCPEGGDTLEGSMAQLKKGLESGTVLIQFEQLYRKKPGLAITFAKLPQNLDKNR
 YKDVLPHYDTRVLLQGNEDYINASYVNMEIPAANLVNKYIATQGPLPHTCAQFWQVVDQKLSLIVMLTT
 LTERGRTKCHQYWPDPDVMNHGGFHIQCQSEDCIAYVSREMLVTNTQTGEEHTVTHLQYVAVPDHGVP
 DDSSDFLEFVNYVRSRLVDSEPLVHCSAGIGRTGVLVTMETAMCLTERNLPIYPLDIVRKMQRDQAMMV
 QTSSQYKFVCEAILRVYEEGLVQMLDPS

TRTRPLE - GFP Tag - V

Restriction Sites:

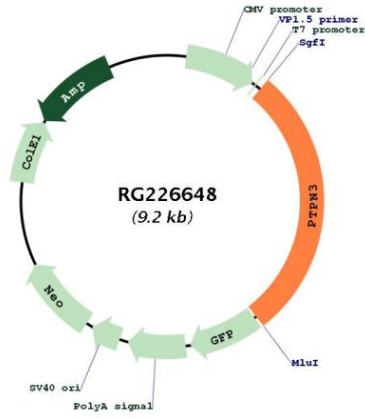
SgfI-MluI

Cloning Scheme:



ACCN:	NM_001145368
ORF Size:	2604 bp
OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001145368.2
RefSeq Size:	6599 bp
RefSeq ORF:	2607 bp
Locus ID:	5774
UniProt ID:	P26045
Cytogenetics:	9q31.3
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]

Product images:



Circular map for RG226648