

Product datasheet for **SC325262**

PTPN12 (NM_001131008) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN12 (NM_001131008) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPN12
Synonyms:	PTP-PEST; PTPG1
Vector:	<u>pCMV6 series</u>



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001131008, the custom clone sequence may differ by one or more nucleotides

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ATGATATGGGAGTATAATGTTGTGATCATTGTAATGGCCTGCCGAGAATTTGAGATGGGA
AGGAAAAATGTGAGCGCTATTGGCCTTTGTATGGAGAAGACCCATAACGTTTGACCA
TTTAAATTTCTGTGAGGATGAACAAGCAAGAACAGACTACTTCATCAGGACTCTTA
CTTGAATTTCAAATGAATCTCGTAGGCTGTATCAGTTTCATTATGTGAAGTGGCAGAC
CATGATGTTCCCTTCATCATTGATTCTATTCTGGACATGATAAGCTTAAATGAGGAAAT
CAAGAACATGAAGATGTTCTATTTGTATTTCATTGCAGTGCAGGCTGTGGAAGAACAGG
GCCATTTGTGCCATAGATTATACGTGGAATTTACTAAAAGCTGGGAAAATACCAGAGGAA
TTTAATGTATTTAATTTAATACAAGAAATGAGAACACAAAGGCATTCTGCAGTACAAACA
AAGGAGCAATATGAACTTGTTCTAGAGCTATTGCCCACTGTTTGAAAAACAGCTACAA
CTATATGAAATTCATGGAGCTCAGAAAATTGCTGATGGAGTGAATGAAATTAACACTGAA
AACATGGTCAGCTCCATAGAGCTGAAAAACAAGATTCTCCTCCTCCAAAACCAAGG
ACCCGAGTTGCCTTGTGAAGGGGATGCTAAAGAAGAAATACTGCAGCCACCGAACCT
CATCCAGTGCCACCCATCTTGACACCTTCTCCCTTCAGCTTTTCCAACAGTCACTACT
GTGTGGCAGGACAATGATAGATACCATCCAAGCCAGTGTTCATATGGTTTCATCAGAA
CAACATTCAGCAGACCTCAACAGAACTATAGTAAATCAACAGAATTCACAGGAAAAAT
GAATCAACAATGAAACAGATAGATAAAAAATTGGAACGAAATTTAAGTTTGGAGATTAAG
AAGGTCCCTCTCCAAGAGGGACCAAAAAGTTTGTATGGGAACACACTTTTGAATAGGGGA
CATGCAATTAATAATCTGCTTACCTTGTATAGCTGATAAAATCTCTAAGCCACAG
GAATTAAGTTCAGATCTAAATGTCGGTGATACTCCCAGAATTCCTGTGTGGACTGCAGT
GTAACACAATCAAACAAGTTTCAGTTACTCCACCAGAAGAATCCAGAATTCAGACACA
CCTCCAAGGCCAGACCGCTTGCCTTTGATGAGAAAGGACATGTAACGTGGTCATTTTCAT
GGACCTGAAAATGCCATACCCATACCTGATTTATCTGAAGGCAATTCCTCAGATATCAAC
TATCAAATAGGAAAAGTGTGAGTTTAAACACCAAGTCTACAACACAAGTTGAAACACCT
GATCTTGTGGATCATGATAACACTTCACCACTCTTCAGAACACCCCTCAGTTTTACTAAT
CCACTTCACTCTGATGACTCAGACTCAGATGAAAGAACTCTGATGGTGTGTGACCCAG
AATAAACTAATATTTCAACAGCAAGTCCACAGTTTCTGCTGCCACTAGTACTGAAAGC
ATTTCTACTAGGAAAGTATTGCCAATGTCCATTGCTAGACATAATATAGCAGGAACAACA
CATTGAGGTGCTGAAAAAGATGTTGATGTTAGTGAAGATTACCTCCTCCCTACCTGAA
AGAACTCTGAATCGTTTGTGTTAGCAAGTGAACATAATACACCTGTAAGATCGGATGG
AGTGAACCTCAAAGTCAAGAACGATCTGAACAAAAAAGTCTGAAGGCTTGATAACCTCT
GAAAATGAGAAATGTGATCATCCAGCGGAGGTATTCATATGAAATGTGCATAGAAATGT
CCACCTACTTTCAGTGACAAGAGAGAACAATATCAGAAAATCCAACAGAAGCCACAGAT
ATTGGTTTGGTAATCGATGTGGAAAACCCAAAGGACCAAGAGATCCACCTTCAGAAATGG
ACA
    
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Restriction Sites: Please inquire

ACCN: NM_001131008

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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>NM_001131008.1</u> , <u>NP_001124480.1</u>
RefSeq Size:	3122 bp
RefSeq ORF:	1986 bp
Locus ID:	5782
UniProt ID:	<u>Q05209</u>
Cytogenetics:	7q11.23
Protein Families:	Druggable Genome, Phosphatase
Gene Summary:	<p>The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains a C-terminal PEST motif, which serves as a protein-protein interaction domain, and may regulate protein intracellular half-life. This PTP was found to bind and dephosphorylate the product of the oncogene c-ABL and thus may play a role in oncogenesis. This PTP was also shown to interact with, and dephosphorylate, various products related to cytoskeletal structure and cell adhesion, such as p130 (Cas), CAKbeta/PTK2B, PSTPIP1, and paxillin. This suggests it has a regulatory role in controlling cell shape and mobility. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Oct 2008]</p> <p>Transcript Variant: This variant (2) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 1. The resulting isoform (2) has a shorter N-terminus with an incomplete PTPc domain when compared to isoform 1.</p>