

## Product datasheet for **SC325257**

### **PTPN12 (NM\_001131009) Human Untagged Clone**

#### **Product data:**

|               |  |
|---------------|--|
| Product Type: | Expression Plasmids                        |
| Product Name: | PTPN12 (NM_001131009) Human Untagged Clone |
| Tag:          | Tag Free                                   |
| Symbol:       | PTPN12                                     |
| Synonyms:     | PTP-PEST; PTPG1                            |
| Vector:       | <u><a href="#">pCMV6 series</a></u>        |



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001131009, the custom clone sequence may differ by one or more nucleotides

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ATGGCCTGCCGAGAATTTGAGATGGGAAGGAAAAATGTGAGCGCTATTGGCCTTTGTAT
GGAGAAGACCCATAACGTTTGCACCATTTAAAATTTCTGTGAGGATGAACAAGCAAGA
ACAGACTACTTCATCAGGACACTTACTTGAATTTCAAATGAATCTCGTAGGCTGTAT
CAGTTTCATTATGTGAAGTGGCCAGACCATGATGTTCTTCATCATTGATTCTATTCTG
GACATGATAAGCTTAATGAGGAAATATCAAGAACATGAAGATGTTCTATTGTATTTCAT
TGCAAGTGCAGGCTGTGGAAGAACAGGTGCCATTTGTGCCATAGATTATACGTGGAATTTA
CTAAAAGCTGGGAAAATACCAGAGGAATTTAATGTATTTAATTTAATACAAGAAATGAGA
ACACAAAGGCATTCTGCAGTACAAAACAAAGGAGCAATATGAACTTGTTTCATAGAGCTATT
GCCCAACTGTTTAAAAACAGCTACAACATATGAAATTCATGGAGCTCAGAAAATTGCT
GATGGAGTGAATGAAATTAACACTGAAAACATGGTCAGCTCCATAGAGCCTGAAAAACAA
GATTCTCCTCCTCAAAAACCAAGGACCCGAGTTGCCTTGTGAAGGGGATGCTAAA
GAAGAAATACTGCAGCCACCGAACCTCATCCAGTCCACCCATCTTGACACCTTCTCCC
CCTTCAGCTTTTCCAACAGTCACTACTGTGTGGCAGGACAATGATAGATACCATCCAAG
CCAGTGTTCATATGTTTCATCAGAACAACATTCAGCAGACCTCAACAGAACTATAGT
AAATCAACAGAATTCAGGAAAAATGAATCAACAATGAACAGATAGATAAAAAATTG
GAACGAAATTTAAGTTTTGAGATTAAGAAGTCCCTCTCCAAGAGGGACCAAAAAGTTTT
GATGGGAACACACTTTTGAATAGGGGACATGCAATTAATAATTAATCTGCTTCACCTTGT
ATAGCTGATAAAATCTCTAAGCCACAGGAATTAAGTTCAGATCTAAATGTCGGTGATACT
TCCCAGAATCTTGTGTGGACTGCAGTGAACACAATCAAACAAGTTTCAGTTACTCCA
CCAGAAGAATCCCAGAATTCAGACACACCTCCAAGGCCAGACCGCTTGCCTTTGATGAG
AAAGGACATGTAACGTGGTCATTTTCATGGACCTGAAAATGCCATACCCATACCTGATTTA
TCTGAAGGCAATTCCTCAGATATCAACTATCAAACACTAGGAAAACCTGTGAGTTTAAACCA
AGTCTACAACACAAGTTGAAACACCTGATCTTGTGGATCATGATAACACTTCACCACTC
TTCAGAACACCCCTCAGTTTTACTAATCCACTTCACTCTGATGACTCAGACTCAGATGAA
AGAAACTCTGATGGTGTGTGACCCAGAATAAACTAATATTTCAACAGCAAGTGCCACA
GTTTCTGCTGCCACTAGTACTGAAAGCATTCTACTAGGAAAGTATTGCCAATGTCCATT
GCTAGACATAATATAGCAGGAACAACACATTCAGGTGCTGAAAAAGATGTTGATGTTAGT
GAAGATTCACCTCCTCCCCTACCTGAAAGAACTCCTGAATCGTTTGTGTTAGCAAGTGAA
CATAATACACCTGTAAGATCGGAATGGAGTGAACCTCAAAGTCAAGAACGATCTGAACAA
AAAAAGTCTGAAGGCTTGATAACCTCTGAAAATGAGAAATGTGATCATCCAGCGGAGGT
ATTCACTATGAAATGTGCATAGAATGTCCACCTACTTTCAGTGACAAGAGAGAACAATA
TCAGAAAATCCAACAGAAGCCACAGATATTGGTTTTGGTAATCGATGTGGAAAACCCAAA
GGACCAAGAGATCCACCTTCAGAATGGACA

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- Restriction Sites:** Please inquire
- ACCN:** NM\_001131009
- 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).

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|-------------------------------|--|
| <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>                | <u>NM_001131009.1, NP_001124481.1</u>  |
| <b>RefSeq Size:</b>           | 3026 bp  |
| <b>RefSeq ORF:</b>            | 1953 bp  |
| <b>Locus ID:</b>              | 5782   |
| <b>UniProt ID:</b>            | <u>Q05209</u>  |
| <b>Cytogenetics:</b>          | 7q11.23  |
| <b>Protein Families:</b>      | Druggable Genome, Phosphatase  |
| <b>Gene Summary:</b>          | <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 (3) contains a distinct 5' UTR, skips an internal exon, and lacks an in-frame portion of the 5' coding region, compared to variant 1. The resulting isoform (3) has a shorter N-terminus with an incomplete PTPc domain when compared to isoform 1.</p> |