

## Product datasheet for **MC206022**

### **Ptpn12 (BC051980) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ptpn12 (BC051980) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ptpn12
Synonyms:	PTPG1, P19-PTP, PTP-P19, PTP-PEST
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC051980  
 CCGAGCGGGCGCTGCGGCGCGGGCGGGCGGGGGGACGCGGGAGGATGGAGCAAGTGGAGATCCT  
 GAGGAGGTTTCATCCAGAGGGTCCAGGCCATGAAGAGTCCGGATCACAATGGGGAGGACAACCTCGCCCGG  
 GACTTCATGCGATTGAGAAGATTGTCTACCAAATATAGAACAGAAAAGATTTATCCCACAGCCACTGGAG  
 AAAAGAAGAAAATGTTAAAAAGAACAGATATAAGGACATACTGCCATTTGATCACAGCCGAGTTAAGTT  
 GACTTTGAAGACTCCATCCCAAGATTAGATTATCAATGCAAAATTTTATTAAGGGTGTGATGGGCCA  
 AAAGCATATGTGGCAACCCAAGGGCCTTTGGCGAATACAGTCATAGACTTCTGGAGGATGATATGGGAGT  
 ATAATGTTGTGATCATCGTGATGGCCTGTCGAGAATTTGAGATGGGAAGGAAAAAGTGTGAGCGCTACTG  
 GCCTTTGTATGGAGAAGATCCTATAACATTTGCACCATTTAAAATTTCTGTGAAAATGAACAAGCAAGA  
 ACCGACTACTTCAACCAACTTTTACTTGAATTTCAAATGAATCCCCTCGGCTCTATCAGTTTCATT  
 ACGTGAAGTGGCCAGACCATGATGTTCTTCGTCATTTGATTCTATTCTGGACATGATAAGCTTAATGAG  
 GAAATACCAAGAACATGAAGATGTGCCTATTTGTATTTCATTGCAGTGCAGGCTGTGGACGAACAGGTGCT  
 ATTTGTGCCATAGATTACACGTGGAACCTACTGAAAGCAGGGAAAATCCAGAGGAATTTAATGTATTTA  
 ATTTAATACAAGAAATGAGAACACAGAGGCACTCGGCAGTACAAACAAAGGAGCAGTATGAACTTGTTC  
 TAGGGCTATTGCTCAACTGTTTAAAAACAGCTACAACCTGATGAAATTCATGGAGCACAGAAGATCGCT  
 GATGGTAAATGAAATTACCACTGGAACCTATGGTCAGTTCATTGATAGCGAGAAGCAAGACTCTCCTCCGC  
 CAAAGCCACCGCGGACTCGAAGTTGCCTTGTAGAAGGGGATGCCAAGGAAGAAATACTACAGCCACCAGA  
 ACCTCACCCGGTGCCACCCATCCTGACGCCATCACCTCCTCAGCCTTCCCAACCGTTACCACTGTGTGG  
 CAGGACAGTGACAGGTACCACCCAAAGCCAGTGCACATGGCCTCACCAGAGCAACACCCAGCCGACC  
 TCAACAGAAGCTATGATAAATCAGCGGACCCAATGGGGAAAAGTGAATCAGCTATTGAGCACATAGATAA  
 GAAGTTAGAGCGCAATTAAGTTTTGAGATTAAGAAAAGTCCCTCCTCAAGAAGGGCCAAAAGTTTTGAT  
 GGAACACACTCTTGAATAGGGGACATGCGATTAATAATTAATCTGCTTCATCTTCTGTAGTTGACAGAA  
 CCTCTAAACCACAGGAGTTAAGTGCAGGTGCCCTAAAGTTGATGATGTATCTCAGAATCTTGGCGGGA  
 CTGTAGTGGCGCTCATTACACAGAGCTGCTGAGTCGTCAGAGGAGTCCCAGAGCAACTCACACACACT  
 CCACGGCCAGACTGCTTGCCTCTCGATAAGAAAGGACACGTAACGTGGTCACTTCATGGACCTGAAAATG  
 CCACACTGTACCCGACTCACCTGACGGCAATCCCCAGATAATCATTCTCAGACTCTGAAAACCGTGAG  
 TTCCACACCCAACTCCACCGCAGAAGAGGAAGCCACGATCTTACAGAGCACCACAACAGCTCCCCTCTG  
 TTGAAAGTCCCCTCAGCTTTACCAACCCTCTTCACTCTGACGACTCGGACTCAGACGGAGGGAGCTCTG  
 ATGGTGTGTGACCAGGAACAAAAGTACATTTCAACAGCAAGTCCACAGTGTCTCCTGCCAGTAGTGC  
 TGAGAGTCTTGCAGTATGAGAGTATTGCCGATGCCATTGCCAGACAGGAAGTAGCAGGCACGCCGCAT  
 TCAGGTGTGAGAAAGATGCTGATGTTAGTGAGGAGTCGCCTCCTCTTACCTGAACGAACTCCTGAGT  
 CTTTTGTATTAGCAGATATGCCTGTAAGACCTGAGTGGCATGAACTTCCAATCAGGAGTGGTCTGAACA  
 AAGGGAATCTGAAGGCTTGACAACCTCTGAAAATGAAAAACATGATGCAGGGGGCATCCACACAGAGGCT  
 TCTGCAGACTCTCCACCTGCTTTTCAAGTGAAGAAAGTCAAAATAACAAAAGTCCAGCAGAAGTACAG  
 ATATTGGTTTTGGTAATCGCTGTGGAAAACCTAAAGGACCAAGAGAGCCACCTTCAGAAATGGACATGATG  
 CAGGGAGTGAAAGGACACTTACATTATACTGGAACACTCAAGTCCACTGAAAGCCAGGCTTATAGTAT  
 TCCATCTTTAAATGTGGGACTGATAGCAGTGTAGATTGTTACCTTAATGTTTTGCTGGGACCATCTACC  
 TGCTTTAATACTACACTTAGGAAAAAGTATTATATTGTTTTATTTGTAACCTCAAGTATTATTGCCTTAAT  
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 AAAGGACTACTCTTTTGTGTTTTATCATGTATGCATTATTTGTATATGTACAGGGCAAGTAGGTATAT  
 AATTTGATAAAGTCCATAAATATTATTAACAGAAGATGAAGAATTTCTGCATGGTCTAAGTCTTTGTGT  
 ATCTTACTTGTAAATTTTGCCTGAAGTTTTAGAAAACAGTTTCTGAATTTTAAACTGCTGGATTCA  
 TGCAGCCAGCATTGCAGGTTATCAGAGATCAAAGATTGAATAATAATACATTTTGTAAATGTAAGCAA  
 AAAGTTATTTTTATACTATATACTGTCTAATTGTTTCATCCTAATGGTTCTTGTTTTCATCTAGTCATGGA  
 GATTTCAGTAAAGTGCCTTGAACAATATTGAATTCCTTAGCTCGTGTGTGTTACTTTAAAATTTGAATTC  
 AACTGGGGTTAGAAGACTATCAGAATATATGATGTTTCAGGATATTTGACCTGCCATTAATAAAAAACAA  
 CAGTTTTACACTGCTAAAAAATAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Ascl-NotI  
**ACCN:** BC051980  
**Insert Size:** 2328 bp

<b>OTI Disclaimer:</b>	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).
<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="#">BC051980</a> , <a href="#">AAH51980</a>
<b>RefSeq Size:</b>	3190 bp
<b>RefSeq ORF:</b>	2328 bp
<b>Locus ID:</b>	19248
<b>Cytogenetics:</b>	5 A3
<b>Gene Summary:</b>	Dephosphorylates a range of proteins, and thereby regulates cellular signaling cascades (PubMed:17070019). Dephosphorylates cellular tyrosine kinases, such as ERBB2 and PTK2B/PYK2, and thereby regulates signaling via ERBB2 and PTK2B/PYK2. Selectively dephosphorylates ERBB2 phosphorylated at 'Tyr-1112', 'Tyr-1196', and/or 'Tyr-1248' (By similarity).[UniProtKB/Swiss-Prot Function]