

## Product datasheet for **MC222633**

### **Ptpn4 (NM\_019933) Mouse Untagged Clone**

#### **Product data:**

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                      |
| Product Name:      | Ptpn4 (NM_019933) Mouse Untagged Clone   |
| Tag:               | Tag Free                                 |
| Symbol:            | Ptpn4                                    |
| Synonyms:          | hPTP-MEG; Ptn4; PTPMEG; TEP; TEP/mPTPMEG |
| Vector:            | pCMV6-Entry (PS100001)                   |
| E. coli Selection: | Kanamycin (25 ug/mL)                     |
| Cell Selection:    | Neomycin                                 |



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**Fully Sequenced ORF:**

>MC222633 representing NM\_019933  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCGCACGTTCCGATTGCCTGCTGGCAGAACCTACAATGTCCGAGCATCAGAGTTGGCCCGAGACA  
 GACAGCATACAGAGGTCGTTTGCAACATTCTTCTCTGGATAAACACTGTACAGGCTTTCAGAGTTAACAA  
 ACATGATCAGGGGCAAGTTCTGTTGGATATAGTCTTCAAGCATCTTGATTGACTGAGCGAGACTATTTT  
 GGTTTACAGTTGGCTGACGATCCACAGATAACCCAAGGTGGCTGGATCCAAACAAACAAATAAGGAAGC  
 AGCTAAAGAGAGGATCACCTTACAATTTGAACTTTAGAGTCAAATTTCTTGTAAAGTACCCCAACAAGTT  
 ACAAGAAGAGTATACAAGGTATCAGTACTTTTTGCAAATTAAGCAAGACATTCTTACTGGAAGATTATCC  
 TGTCTTGTAACTGCTGCCCTTTAGCATCATTTGCTGTTGAGTCTGAACTTGGAGACTACAATCAGT  
 CAGAAAACCTGGCAGGCTACCTCTCAGATTATTCTTTTCATTCCTAATCAACCTCAAGATTTTGAGAAAGA  
 AATTGCAAAGTTACATCAGCAGCAGCTTGGCCTATCTCCTGCAGAAGCAGATTTAATTACCTAAACGCG  
 GCACGTACCTTAGAACTCTATGGAGTTGAATTTCACTATGCAAGGGATCAAAGTAAACAATGAAATCCTGA  
 TTGGAGTGATGTCAGGAGGAATTCTGATTATAAGAACAGGGTACGGATGAATACTTTTCTGTGGTTGAA  
 GATTGTAAAAATTTCTTTTAAATGCAAACAGTTTTTTATTCAACTTAGAAAAGAGTTGCATGAATCTAGA  
 GAAACATTACTGGGATTTAATATGGTGAATTATAGAGCATGTAAAACCTTTGTGGAAAAGCGTGTGTAGAAC  
 ATCATACATTCTCCGCCTGGATAGACCACTCCACCTCAAAAAATTTTTTGCACATTATTTTACATT  
 GGGTCCAAATCCGGTACTGTGGGAGAAGTGAAGTCCAGTCAAGTCAATATGGCAAAGAAAAGGCAAAAT  
 AAAGACAGGGTATTTGCAAGATCTCAAAGTAAAGCTTTGGCACGGAAATTAATGGATTGGGAAGTAGTCA  
 GCAGAAATTCATTATCTGATGACAGGTTAGAAACACAAAGCCTCCCATCCCGGTCTCCACCTGGAAGTCC  
 CAACCATCGGAATTCCTTATTACACAAGAGGCAACCCGGGTTCCGGCCTTTCAGTTGGTCAATTGGTA  
 GACCATGTGGTTCACATGTCCCCAGTGAAGATTTTGTAAAGTCAAGATCTCCATCATCAACGCAAGCTA  
 ATAGCATAGTTCTGGAGTCATCACCATCACAAGAGACCCCTGAAGATGGGCAGCCACCAGCTTTACCACC  
 CAAACAATCTAAGAAAAATAGTTGGAACCAAAATTCATTTTTCAAACCTCTCAGCAAGATCTAGTACCCCAT  
 ACTAATGAATCCTTTGATGTGCCCTTTCCCTGAAAAGTCCACTCCTAATGGTGGCATTCCACATGATA  
 ACCTTGTCTAATCAAAATGAAACCTGATGAAAATGGAAGGTTTGGATTCAATGTAAAGGGAGGATATGA  
 TCAGAAGATGCCTGTAATTGTTTCCCGGTAGCACCAGGAACACCTGCTGACCTCTGTGTCCCTCGCTTG  
 AATGAAGGGGACCAAGTGGTACTAATAATGGTGGGACATTGCAGAACATACCCATGATCAAGTAGTCT  
 TGTTTATTAAGCTAGCTGTGAGAAACATTCTGGGGAACCTCGTGCTCCTAGTCCGACCTAATGCTGTATA  
 TGATGTAGTGAAGAAAACTAGAAAGTGAACCAGACTTCCAGTATATTCTGAGAAAGCCCACTAGAT  
 AGTGTCCATCAAGATGACCATTCTTGCAGGAGTCAATGATCCAGCTAGCTGAGGGGCTTACTACTGGAA  
 CAGTACTGGCACAGTTTATCACTCTATCGGAAAAACCTGGAATGACAATGTCTTGTGCCAAATTACC  
 TCAGAACATTTCCAAAAACAGATACAGAGATATTTACCTTATGATGCTACACGGGTCTTTTAAAGGT  
 AATGAAGACTACATCAATGCAAACATATAAATATGGAATTCCTTCTTCAAGTATTATAAATCAATACA  
 TTGCTTGTCAAGGGCCATTACCACACACTTGTAAAGATTTTGGCAAATGACTTGGGAACAAGGCTCCTC  
 CATGGTTGTGATGTTGACCACACAAGTTGAACGTGGCAGAGTTAAATGTCACCAGTATTGGCCAGAACCC  
 TCAGAAAAGCTCATCCTATGGATGCTATCAAGTCACTGCCACTCTGAAGAAGGAAACCTGCCTATATCT  
 TCAGGAAGATGACACTGTTTAAACCAAGAGAAAAATGAGAGCCGTCAACTTACTCAGATTAGTACACAGC  
 CTGGCCTGACCATGGAGTACCTGATGATTGAGTACTTTCTGGATTTTGTGTCATGTACGAGACCAG  
 AGGGCTGGAAAAGAAGAGCCATTATTGTTTCAATGCAAGTCTGGAATGGAAGGACTGGGTTCTTATTA  
 CTATGGAACTGCCATGTGTCTCATTGAATGCAATCAGCCAGTTTATCCACTAGACATTGTAAGAACAAT  
 GAGAGATCAAAGACCAATGATGATCCAACACCTAGTCAATACAGATTTGTATGTGAAGCTATTCTGAAA  
 GTTTATGAAGAAGGATTTGTTAAACCATTAACAACATCATCAAAATAA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

|                               |   |
|-------------------------------|---|
| <b>ACCN:</b>                  | NM_019933   |
| <b>Insert Size:</b>           | 2781 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="#">NM_019933.2</a> , <a href="#">NP_064317.2</a>   |
| <b>RefSeq Size:</b>           | 4707 bp   |
| <b>RefSeq ORF:</b>            | 2781 bp   |
| <b>Locus ID:</b>              | 19258   |
| <b>UniProt ID:</b>            | <a href="#">Q9WU22</a>  |
| <b>Cytogenetics:</b>          | 1 52.39 cM  |
| <b>Gene Summary:</b>          | Phosphatase that plays a role in immunity, learning, synaptic plasticity or cell homeostasis (PubMed:17953619, PubMed:25825441). Regulates neuronal cell homeostasis by protecting neurons against apoptosis (By similarity). Negatively regulates TLR4-induced interferon beta production by dephosphorylating adapter TICAM2 and inhibiting subsequent TRAM-TRIF interaction (PubMed:25825441). Dephosphorylates also the immunoreceptor tyrosine-based activation motifs/ITAMs of the TCR zeta subunit and thereby negatively regulates TCR-mediated signaling pathway (PubMed:18614237). May act at junctions between the membrane and the cytoskeleton.[UniProtKB/Swiss-Prot Function] |