

## Product datasheet for **MC219479**

### **Ptpn6 (NM\_013545) Mouse Untagged Clone**

#### **Product data:**

|                    |   |
|--------------------|---|
| Product Type:      | Expression Plasmids                                     |
| Product Name:      | Ptpn6 (NM_013545) Mouse Untagged Clone                  |
| Tag:               | Tag Free  |
| Symbol:            | Ptpn6   |
| Synonyms:          | 70Z-SHP; hcp; Hcph; me; Ptp1C; PTPTY-42; SH-PTP1; SHP-1 |
| Vector:            | pCMV6-Entry (PS100001)                                  |
| E. coli Selection: | Kanamycin (25 ug/mL)                                    |
| Cell Selection:    | Neomycin  |



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**Fully Sequenced ORF:** >MC219479 representing NM\_013545  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTGAGGTGGTTTCACCGGGACCTCAGCGGGCCTGATGCAGAGACCCTGCTGAAGGGCCGGGAGTCC  
 CTGGGAGCTTCCTGGCTCGGCCAGCCGAAGAACCAGGGTGACTTCTCCCTCTCAGTCAGGGTGGATGA  
 TCAGGTGACTCATATTCGGATCCAGAACTCAGGGGACTTCTATGACCTGTACGGAGGGGAGAAGTTTGCG  
 ACGCTGACAGAGCTGGTCGAGTATTACACGCAGCAGCAGGGCATCCTGCAGGACCAGATGGCACCATCA  
 TCCACCTTAAGTACCCACTGAACTGCTCGGACCCACCAGTGAGAGGTGGTACCACGGCCACATATCTGG  
 AGGGCAGGCGGAGTCACTGCTGCAGGCCAAGGGCGAGCCCTGGACATTTCTTGTCGTGAGAGTCTCAGC  
 CAACCTGGTGATTTGTGCTCTCTGTGCTCAATGACCAGCCAAAGGCTGGCCAGGTTCCCCGCTCAGGG  
 TCACTCATATCAAGGTTATGTGTGAGGGTGGACGCTATACTGTGGGTGGCTCAGAGACGTTTGACAGCCT  
 CACAGACCTGGTGGAGCACTTCAAGAAGACAGGGATTGAGGAGGCTCGGGTGCCTTTGTCTACCTGCGG  
 CAGCCTTACTACGCTACTCGGGTAAACGCAGCTGACATTGAGAATCGGGTCTTGGAACTGAACAAGAAGC  
 AGGAGTCGGAGGACACAGCCAAGGCTGGCTTCTGGGAGGAGTTTGAGAGTCTACAAAAGCAGGAGGTAAA  
 GAATCTACACCAACGCTCTGGAAGGGCAGCGCCAGAGAACAAGAGCAAGAACCCTACAAGAACATTCTT  
 CCCTTTGACCACAGCCGAGTGATCCTGCAGGGACGTGACAGTAACATCCCAGGCTCTGACTACATCAATG  
 CCAACTACGTGAAGAACCAGCTGCTAGGTCCAGATGAGAACTCTAAGACCTACATCGCCAGCCAGGGCTG  
 TCTGGATGCCACAGTCAATGACTTCTGGCAGATGGCTTGGCAGGAGAACAACCTCGTGCATCGTCAAGT  
 ACCAGAGAGGTGGAGAAAGGCCGGAACAATGTGTCCCATACTGGCCGAGGTGGGCACTCAGCGTGTCT  
 ATGGTCTCTACTCTGTGACCAACAGTAGGGAGCATGACACAGCAGAATACAAACTGCGAACATTACAGAT  
 CTCCCCACTAGACAATGGGGACCTGGTTCGGGAGATATGGCACTACCAGTACCTGAGCTGGCCTGACCAT  
 GGGGTTCCAGTGAAGCTGGGGTGTCTCAGCTTCTGGATCAGATCAACCAGCGACAGGAAAGTTTGC  
 CTCATGCAGGGCCATCATTGTGCATTGCAGCGTGGCATCGGCCGCACGGGCACCATCATCGTCAATTGA  
 TATGCTTATGAAAGCATCTCCACCAAGGGCTAGACTGTGACATTGATATCCAGAAGACCATCCAGATG  
 GTACGAGCACAGCGCTCCGGCATGGTGCAGACCGAGGCCAGTACAAGTTTATTTACGTGGCCATTGCC  
 AGTTCATCGAAACGACCAAGAAGAACTGGAGATCATAAATCCCAGAAGGGCCAGGAGTCGGAGTATGG  
 GAATATACGTACCTCCCGCTGTGAGGAGTGCCACGCCAAAGCCTCGCGTACTTCTCCAAGCACAAG  
 GAGGAGGTGTACGAAAACGTGCATAGCAAGAGCAAGAAGGAAGAGAAAGTAAAGAAGCAGCGGTCCGCAG  
 ACAAGGAGAAGAACAAGGTTCTCTCAAGAGGAAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_013545
- Insert Size:** 1788 bp
- 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).
- 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:**

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\\_013545.3](#), [NP\\_038573.2](#)

**RefSeq Size:** 2219 bp

**RefSeq ORF:** 1788 bp

**Locus ID:** 15170

**UniProt ID:** [P29351](#)

**Cytogenetics:** 6 59.17 cM

**Gene Summary:** Modulates signaling by tyrosine phosphorylated cell surface receptors such as KIT and the EGF receptor/EGFR. The SH2 regions may interact with other cellular components to modulate its own phosphatase activity against interacting substrates. Together with MTUS1, induces UBE2V2 expression upon angiotensin II stimulation. Plays a key role in hematopoiesis.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) contains an alternate 5' terminal exon and initiates translation at an alternate start codon, compared to variant 2. It encodes isoform a, which has a shorter and distinct N-terminus, compared to isoform b.