

## Product datasheet for **MC223884**

### Ptpn14 (NM\_008976) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ptpn14 (NM\_008976) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ptpn14  
**Synonyms:** C130080N23Rik; OTTMUSG00000022087; PTP36  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223884 representing NM\_008976  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCTTCGGCCTGAAGCTCCGCAGGACTCGGCCTACAACGTCCTGAGCAAGAACTGCTTTGTTACCC  
 GGATCCGCTGCTGGACAGCAATGTCATCGAGTGCACGCTGTCGGTGGAAAGCACGGGGCAAGAGTGCCT  
 GGAGGCCGTGGCCAGAGGCTGGAGCTGAGGGAGACGCACTACTTCGGCCTTTGGTTTCTCAGCAAGAGC  
 CAGCAGGCCGAGATGGGTAGAGCTGGAGAAGCCACTGAAGAAACATCTGGACAAGTTTGCTAACGAGCCTC  
 TGCTTTCTTCGGAGTCATGTTCTATGTGCCAAATGTGTACGGCTTCAGCAGGAGGCCACAAGATATCA  
 GTATTACCTGCAAGTCAAAAAGACGTGCTTGAAGGACGGTTGCGGTGCTCCCTGGAACAAGTGATCCGG  
 CTGGCTGGCTTAGCTGTGCAAGCTGACTTCGGAGATTATAACCAAGTTTGATTCCCAAGAGTTCCTCCGAG  
 AGTATGTGCTCTTCTATGGATTTGGCCATGGAGGAGCGGCTCTGGAGGAGCTAACCCAGAAGGTGGC  
 CCAGGAACACAAAGCTCATAGCGGGATCCTGCCGGCTGAAGCTGAACTGATGTACATCAACGAGGTAGAG  
 CGTTTGGATGGATTTGGACAGGAGATCTCCCCGTGAAGGACAGTCATGGCAACAGCGTGACACTCGGCA  
 TCTTCTCATGGGATTTTGTGAGGAACAGGTCGGGAGACAGGCAAGTATACAGGTGGAATGACAT  
 TGGGAGTGTTACTCACAGCAAAGCAGCCATCCTGTTGGAGCTGATTGACAAGGAGGAGACCGCCTCTTC  
 CATAAGATGATATTGAAAATGCCAAGTACATTTCTCGGTTGTTACCACTCGGCACAAATTTTACAAC  
 AGAACAAGATCTGCACTGAACAGTCAAATCTCCACCCCAATTAGACGCCAGCCACCTGGAGCCGGTCT  
 CCACTGCAAGGAGCAGCCGATATCTTGCCTCCCATGCATGTCCAGTGCAGTGCAGTACTCGGAG  
 ACCATACTTCCCAAGACAGCATTTTCCCCGGGAACGAAGAAGCCTTGTACTGCCGTTCTCACACAGCC  
 TGGACCTAATTACTTGAACGGCACCGTACCAATGGCAGCGTGTGCAGCGTTCACAGCGTCAACTCCCT  
 CAGCTGCTCTCAGAGCTCATCCAGGCGTCTCCAGTGTCTCCAACCTTAGCATCCCTGGGAGTGACATC  
 ATGAGGGCCGATTACATCCCAGCCACCGCCACAGCACCATCATCGTGCCGCTTACAGGCCGACCCAG  
 ATTACGAGACGGTCATGAGGCAGATGAAGAGGGTCTGATGCACGCAGACAGCCAGAGCCGGTCTCTGCG  
 TAACCTCAATATCATCAACCCATGCCTATAACCAGCCCGAGGAAGTGGTGTACAGCCAGCCGGAGATG  
 CGGGAGAGGCATCCCTACACGGTCCCCTATGCACACCAGGGGTGCTACGGTCAAAACTGTAAGTCCGT



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CTGACCAGATGAACCCCAAAATTGTGCGATGCCTATCAAGCCAGGGGCCAGTTCATCTCACACACAGT  
 GAGCACTCCAGAAGTAGCCAACATGCAGCTCCAAGGAGCACAACACTATAGCACAGCCCACATGCTCAAG  
 AACTATCTATTAGGCGGCCACCCCTTACCCTCGGCCCGTCTGCCACCAGCACCCCAGACCTCGCCA  
 GCCACCGCCACAAGTACGTACAGCGGCAGCAGCCCTGATCTGGTAACTCGGAAGGTGCAGCTCTCCGTA  
 AACCTCCAGGAGGACAGCTCACCTGTGGTCCATCAGTCTCTGCAGGAGGTGAGCGAACCCCTTACAGCC  
 ACCAAGCACCATGGCGGGCGGTGGCACGGTGAATAAACGCCACAGCCTGGAGGTGATGAACAGCATGG  
 TGAGAGGCATGGAGGCCATGACACTGAAGTCACTCAATATCCCCATGGCTCGCCGCAACCCCTTCGGGA  
 GCAGGGCCCTTCCGAGGAGACGGGCGGCCACGAAGTGCACGGTCTCCCCAGTATCACCACAAGAAGACA  
 TTCTCGGATGCCACCATGCTGATCCACAGCAGTGAAGGAGGAGGAGACCCCTGGAGGCTGCAC  
 CTCAGGTTCTGTGCTTCGAGAGAAAGTAGAATACAGTGCCAGCTGCAGGCTGCCCTGGCCCGCATCCC  
 CAACAGGCCCCACCTGAGTACCAGGGCCAAGAAAAAGTGTAGTAAATGGGGCACTGAGACAGGACCAG  
 GGAACCCCTTCTTCCATGGCCAGGTGCAGGGTGTGAGACACGGACCATCCAAGGCCCTCAGTGTCT  
 CCCGGGCAGAGCAGTGGCTGTCAACGGTGCCTCTCTGGTCCCTCCATCTCTGAGCCTGACCTAACCA  
 CGTGAAGGAGCGGTCAAGAAAGAGCCTGTGAAGGAAAGGCCGGTGTGAGAGATGTTCTCCCTGGAGGAC  
 AGCATTATAGAGAGAGAGATGATGATCAGGAATCTAGAGAAGCAGAAGTACAGGGCCCGCAGGCACAGA  
 AGAGACCCTGATGTTGGCAGCGCTGAATGGGCTCTCGGTGGCCGAGTGTGGGGCGGGAAGACGGTCA  
 CCATGATGCCACCCGAGTCCCCATAGACGAGAGGCTCAGAGCCCTGAAGAAGAAGCTGGAAGATGGAATG  
 GTGTTACAGAATATGAGCAGATTCAAACAAAAAGGCCAACGGCGTCTTCAGCACCGCCACTCTGCCTG  
 AGAATGCCGAGCGCAGCCGGATCCGAGAAGTTGTCCCATACGAGGAGAATCGAGTGGAGCTCATCCCAGC  
 CAAAGAAAAACAACACAGGCTATATCAACGCCTCCACATCAAGGTGGTGGTGGCGGATCAGAATGGCAC  
 TACATCGCCACCCAGGGGCCCTTGCCACATACGTGCCATGACTTCTGGCAGATGGTGTGGGAGCAGGGG  
 TGAATGTGATCGCCATGGTCACTGCAGAGGAGGAGGGTGGACGGACCAAAAGCCATCGATACTGGCCAA  
 ACTGGGGTCCAAGCATAGTTCTGCCACCTACGGCAAGTCAAGGTCAACCAAAAGTCCGGACAGATTCT  
 GGTGCTATGCAACGACGGGCCTAAAGGTGAAGCACCTGCTGTCCGGGCAGGAGAGGACCGTGTGGCACT  
 TGCAGTACACGGACTGGCCCAACACGGCTGTCCAGAAGACGTCCAAGGATTTTTGCTACTTGGAGGA  
 AATCCAGTCACTCCGACGCCACCAACAGCGTGTGGAAGGCATCAGGACCAGGCACCCCCCATCGTG  
 GTTCACTGCAGCGGGTGTGGGAAGGACTGGTGTGGTTATCCTCTCTGAGCTCATGATCTACTGCCTGG  
 AACACAACGAAAAGGTGGAGGTGCCACGATGCTGCGATTCTCAGGGAGCAGAGGATGTTGATGATCCA  
 GACCATTGCGCAGTACAAGTTCGCTACCAAGTCTCGTCCAGTCTCTGCAGAATTCAGGCTCATTGA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_008976
- Insert Size:** 3570 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\\_008976.2](#), [NP\\_033002.2](#)

**RefSeq Size:** 10766 bp

**RefSeq ORF:** 3570 bp

**Locus ID:** 19250

**UniProt ID:** [Q62130](#)

**Cytogenetics:** 1 95.03 cM

**Gene Summary:** Protein tyrosine phosphatase which may play a role in the regulation of lymphangiogenesis, cell-cell adhesion, cell-matrix adhesion, cell migration, cell growth and also regulates TGF-beta gene expression, thereby modulating epithelial-mesenchymal transition. Mediates beta-catenin dephosphorylation at adhesion junctions. Acts as a negative regulator of the oncogenic property of YAP, a downstream target of the hippo pathway, in a cell density-dependent manner. May function as a tumor suppressor.[UniProtKB/Swiss-Prot Function]