

## Product datasheet for MC209260

### Ptpn1 (NM\_011201) Mouse Untagged Clone

#### Product data:

|                      |   |
|----------------------|---|
| Product Type:        | Expression Plasmids   |
| Product Name:        | Ptpn1 (NM_011201) Mouse Untagged Clone  |
| Tag:                 | Tag Free  |
| Symbol:              | Ptpn1   |
| Synonyms:            | PTP-1B; PTP-HA2; PTP1B  |
| Vector:              | pCMV6-Entry (PS100001)  |
| E. coli Selection:   | Kanamycin (25 ug/mL)  |
| Cell Selection:      | Neomycin  |
| Fully Sequenced ORF: | >MC209260 representing NM_011201<br>Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAGATGGAGAAGGAGTTCGAGGAGATCGACAAGGCTGGGAAGTGGGCGGCTATTTACCAGGACATTC  
GACATGAAGCCAGCGACTCCCATGCAAAGTCGCGAAGCTTCTAAGAACAAAAACCGGAACAGGTACCG  
AGATGTCAGCCCTTTTGACCACAGTCGGATTAATTCACCAGGAAGATAATGACTATATCAATGCCAGC  
TTGATAAAAAATGGAAGAAGCCAGAGGAGCTATATTCTCACCCAGGGCCCTTACCAAACACATGTGGGC  
ACTTCTGGGAGATGGTGTGGGAGCAGAAGAGCAGGGGCGTGGTCATGCTCAACCGCATCATGGAGAAAGG  
CTCGTTAAAAATGTGCCAGTATTGGCCACAGCAAGAAGAAAAGGAGATGGTCTTTGATGACACAGTTTG  
AAGTTGACACTAATCTCTGAAGATGTCAAGTCATATTACACAGTACGACAGTTGGAGTTGGAAAACCTGA  
CTACCAAGGAGACTCGAGAGATCCTGCATTTCCACTACACCACATGGCCTGACTTTGGAGTCCCGGATC  
ACCGGCTTCTTTCCTCAATTTCTTTTCAAAGTCCGAGAGTCAGGCTCACTCAGCCTGGAGCATGGCCCC  
ATTGTGGTCCACTGCAGCGCCGGCATCGGAGGTCAGGGACCTTCTGTCTGGCTGACACCTGCCTCTTAC  
TGATGGACAAGAGAAAGACCCATCTTCCGTGGACATCAAGAAAGTACTGCTGGAGATGCCAGGATCCCG  
CATGGGGCTCATCCAGACTGCCGACCAGCTGCGCTTCTCCTACCTGGCTGTCATCGAGGGCGCAAAGTTC  
ATCATGGGCGACTCGTCAAGTGCAGGATCAGTGAAGGAGCTCTCCCGGGAGGATCTAGACCTTCCACCCG  
AGCACGTGCCCCACCTCCCGGCCACCCAAACGCACACTGGAGCCTCACAACGGGAAGTGAAGGAGCT  
CTTCTCCAGCCACCAGTGGGTGAGCGAGGAGACCTGTGGGGATGAAGACAGCCTGGCCAGAGAGGAAGGC  
AGAGCCCAGTCAAGTCCATGCACAGCGTGAAGCAGCATGAGTCCAGACACTGAAGTTAGGAGACGGATGG  
TGGGTGGAGGTCTTCAAAGTGTCTCAGGCGTCTGTCCACCGAGGAAGAGCTGTCTCCACTGAGGAGGA  
ACACAAGGCACATTGGCCAAGTCACTGGAAGCCCTTCTGGTCAATGTGTGCATGGCCACGCTCTGGCC  
ACCGGCGGCTACTGTGCTACCGGTGTGTTTTCA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



|                               |   |
|-------------------------------|---|
| <b>Restriction Sites:</b>     | Sgfl-Mlul   |
| <b>ACCN:</b>                  | NM_011201   |
| <b>Insert Size:</b>           | 1299 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>                | <u><a href="#">NM_011201.3</a></u> , <u><a href="#">NP_035331.3</a></u>   |
| <b>RefSeq Size:</b>           | 4213 bp   |
| <b>RefSeq ORF:</b>            | 1299 bp   |
| <b>Locus ID:</b>              | 19246   |
| <b>UniProt ID:</b>            | <u><a href="#">P35821</a></u>   |
| <b>Cytogenetics:</b>          | 2 H3  |
| <b>Gene Summary:</b>          | Tyrosine-protein phosphatase which acts as a regulator of endoplasmic reticulum unfolded protein response. Mediates dephosphorylation of EIF2AK3/PERK; inactivating the protein kinase activity of EIF2AK3/PERK. May play an important role in CKII- and p60c-src-induced signal transduction cascades. May regulate the EFNA5-EPHA3 signaling pathway which modulates cell reorganization and cell-cell repulsion. May also regulate the hepatocyte growth factor receptor signaling pathway through dephosphorylation of MET (By similarity). [UniProtKB/Swiss-Prot Function] |