

Product datasheet for **MC224183**

Ptprj (NM_001135657) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptprj (NM_001135657) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ptprj
Synonyms:	AI450271; BET; Byp; CD148; DEP-1; Ptpb2; PTPbeta2; RPTPJ; Scc-1; Scc1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224183 representing NM_001135657 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGTGTATGGATAATGTCTTGGGAGTTTTGAAATGCCACAAGCCTTGCTGGCCAGGGTGCAGCTGCCT
CTGCTGTTAGACCTCAGATTATAAGGACAGAACACAGCACGGAAGTGGGGGATCAGAACCATGGGAGA
TCCAGGACGAAGGTCTGTGCGCAGGTGCGGCACCGAATCCTATATTTGACATTGAAGCTGTCGTCAGC
CCAAGTAGTGTATTAAACATGGAAGCACAATGACTCAGGCGCTTCAGAATGTAGAATAGAGAATAAGA
TGGAGAGCAATCTGACGTTTCCTGTTAAAAACAGACATCATGTAACATTACAGGCTTAAGCCCAGGCAC
TTCGTATACATTCCATCATCTCTGTAACAACCAATGAGACCTTGAACAAAATATCACAACAGAGCCC
TGGCCAGTGTCTGATCTCCATGTACCTCTGTGGGTGTGACACAGGCTCGTCTCACCTGGAGCAATGCAA
ATGGCACTGCCTCCTACCGGATGCTGATTGAAGAGTTGACCACACATTCCCTCAGTCAATATTTAGGTCT
GAAGCCGGGGACCAATAATAGCTTCGCTTTCCAGAATCAAATGAGACACAGGCTGACTTTGAGTTGCA
GAGGAGGTCCCGGATGCCAATGGTACCAAGAGAATCCAGTGACCAACCTATCCCAACTACACAAGAATT
CTCTTGTCTGTGGACCCACCCTCTGGCCAGGATCCCTCCCTCACAGAGATCTTGCTTACTGACCTAAA
GCCTGATACTCAGTACAATGCCACCATCTATTCTCAAGCAGCAAATGGCACTGAAGGACAGCCAGGAAAC
AAAGTGTTTTAAAACAAATTCACCCAGGTTTCTGACGTCCGAGCTATGAACATCAGTGCCTCAAGCATGA
CCCTGACCTGGAAAAGCAATTACGATGGTCCCCTACTTCAATTGTCTACAAAATACACGTGGTGGGGG
GACCCACTCCGTCAACCAAATGTCAATAAGACTGAGGCCATCATCCTCGGACTCAGCTCCAGCACCTTG
TACAACATCACAGTTCATCCTTCTGGGTGACACGGAGGCACACCAGGCTTCTCCAAGTGTACACTT
CCCCGATCAGGCTCTGACTTCCGAGTGACAAATGTCAGCACAGGGCAATTGGTTGGCTTGGAGGAG
CAATGACTCCAAGTCTTCGAGATTTTCATCAAGCAGGACGGAGGTGAGAAGCATCGAAATGCTTCGACG
GGAAACCAGAGCTATATGTTGAAGATTTAAAGCCTGGAACCAGTTACCATTTTGAGATAATTCCACGAG
GACCAGACGGGACAGAAGGGCTGTCCAGTACAGTGAATGGGAGCACTGACCCAGTGTGTGACTGACAT
CCGGGTGGTCAACATTAGCACCCTGAAATGCAGTTGGAGTGGCAGAATACGGACGATGCCTCTGGATAC
ACTTACCATTTAGTTCTAGAGTCTAAAAGTGGCTCCATCATCAGGACCAACAGTTCTCAGAAGTGGATCA



CAGTAGGGAGCCTCACCCAGGCACCTTATACAATGTCACAATCTTTCCAGAAGTGGACCAGATCCAGGG
AATCTCCAACCTCATTACCCAGTACACACGGCCAGCAGTGTGTCCCACATTGAAGTAAACACCACCACC
ACCACGGCAGCCATCCGATGGAAGAACGAGGACGACGCTCTGCTTCTATGCCTACTCCGCTCTTATCT
TGAAGACTGGAGATGGCAGCAATGTAACCAGCAACTTCACAAAAGACCCTTCTATTCTAATCCCTGAGTT
AATCCCTGGTGTCTCTTACACAGTGAAGATCCTTACACAAGTTGGGGATGGTACAACATCACTGGTACCT
GGTTGGAATCTGTTCTGTACGGAACCTGAACCAGTACCTCCTCCACTGTGAAGTGGTCCCTAAGGAGC
CAGCATTTGGTTCTCAAGTGGGCTGCCCTTTGGCATGTACACAGGCTTCGAGCTGGGGTCCAGGAGTGA
TTCCTGGGACAATATGACACGCCTAGAGAAGTGCACCTTCGGATGATGACACAGAGTGCAGGACGGAAGTC
GCCTATTTGAATTTTTCTACCTCGTACAACATCAGCATCGCCACCTTGTGATGTGGGAAGATGGCGCTTC
CCGCCAGAACATCTGCACCACTGGCATCACAGACCCACCTACTCCGGATGGATCCCCTAATATTACATC
GGTCAGTACAATTCAGTAAAGGTTAAGTTCAGCGGGTTTGAAGCCAGCCACGGACCTATCAAAGCCTAT
GCTGTCATCCTCACCACCGGGAAGCTGCCAACCTTCTGCAGATGTTTTGAAGTACAGTATGAGGATT
TCAAAAGGGGAGCCTCGGATACTTATGTCACATACCTATAAGAATAGAAGAGAAGGGACAGTCTCAGGG
CTTGTCTGAAGTCTTGAAGTATGAAATGATGTGGGAACCAATCCACTACCCTCGGCTACTACAACGGG
AGGCTGGAGCCTCTGGGCTCCTACCGGCTTGTGTGCTGGCTTTACCAATATTACCTACAACCTTCAGA
ATGACGGCCTCATCAATGGGGATGAGAGCTATGTGCTTTTCAGTCCATATTCAGAGGCCGTGTTCTTGCC
CCAGGACCCAGGTGTCATCTGCGGAGCAGTGTGGATGTATCTTTGGTGCCTGGCCATCACAGCTGTG
GGAGGCTTCATCTTCTGGAGAAAAGAAAGGACAGATGCCAAGAATAATGAAGTGTCTTTTCTCAAATTA
AACCTAAAAATCCAAGTTAATCCGAGTGGAGAATTTTGAAGCCACTTTAAGAAGCAGCAAGCTGACTC
TAACTGTGGGTTTGCAGAGGAATATGAGGACCTGAAGCTGATTGGGATAAGTTTACCTAAATACACAGCT
GAGATAGCCGAGAACAGAGGGAAGAACCGCTACAACAATGTTCTGCCCTATGATATTTCTCGAGTCAAAC
TTTCAGTCCAGACCCATTCGACAGATGACTACATCAATGCCAATATATGCCTGGCTACCATTCCAAGAA
AGATTTTCAATGCCACACAAGGACCTTTACCCAACACTTTGAAAGATTTCTGGCGTATGGTTTGGGAGAAA
AACGTATATGCCATTGTTATGTTGACCAATGCGTGGAGCAGGGAAGGACCAATGTGAGGAGTACTGGC
CTTCCAAGCAGGCTCAGGACTACGGGACATAACTGTGGCGATGACATCAGAAGTCGTTCTTCCAGAATG
GACCATCAGAGATTTTGTGGTAAAAATATGCAGAATAGCGAGAGCCATCCTCTGCGGCAGTTCCATTTT
ACCTCCTGGCCTGACCACGGTGTCTGACACCACTGACCTGCTCATCAACTTTCCGGTACCTGGTCCGGG
ATTACATGAAGCAGATACCCCGAGTACCAATTTCTGGTGCATTGCAGTGTGGGGTGGAAAGGACGGG
CACTTTTCAATCGCCATCGATCGCCTGATCTATCAGATAGAGAATGAGAACACCGTGGACGTGTATGGGATT
GTCTATGACCTTCGGATGCACAGGCCTCTGATGGTGCAGACAGAGGACCAGTATGTTTTCTCAATCAGT
GTGTTTTGGATATTATCAGAGCCGAAAGACTCAAAGTTGATCTCATCTATCAGAACACAACGGCAAT
GACAATCTATGAAAACCTCGAGCCAAGTTCCCTGAATGTGACTATGTTGCTTCATCCACAGCTGAACGAT
TTTGGATGTTGGGTTCTAGGTCCTGGCTGTTGCTGGTCTGCTAGGATCCAGGGCCTGTTGACATCTGGG
AAGATGTAATTTGCCGCTGAAAGCCTCAGTTTTAGATGTGGCCACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001135657
- Insert Size:** 3900 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_001135657.1, NP_001129129.1

RefSeq Size: 4201 bp

RefSeq ORF: 3900 bp

Locus ID: 19271

Cytogenetics: 2 50.19 cM

Gene Summary: Tyrosine phosphatase which dephosphorylates or contributes to the dephosphorylation of CTNND1, FLT3, PDGFRB, MET, RET, KDR, LYN, SRC, MAPK1, MAPK3, EGFR, TJP1, OCLN, PIK3R1 and PIK3R2. Plays a role in cell adhesion, migration, proliferation and differentiation. Involved in vascular development. May be involved in the mechanism of contact inhibition of cell growth. Regulator of macrophage adhesion and spreading. Positively affects cell-matrix adhesion. Positive regulator of platelet activation and thrombosis. Negative regulator of cell proliferation. Negative regulator of PDGF-stimulated cell migration; through dephosphorylation of PDGFR. Positive regulator of endothelial cell survival, as well as of VEGF-induced SRC and AKT activation; through KDR dephosphorylation. Negative regulator of EGFR signaling pathway; through EGFR dephosphorylation. Enhances the barrier function of epithelial junctions during reassembly. Negatively regulates T-cell receptor (TCR) signaling. Upon T-cell TCR activation, it is up-regulated and excluded from the immunological synapses, while upon T-cell-antigen presenting cells (APC) disengagement, it is no longer excluded and can dephosphorylate PLCG1 and LAT to down-regulate prolongation of signaling. [UniProtKB/Swiss-Prot Function]