

Product datasheet for **MC224301**

Ptprij (NM_008982) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptprij (NM_008982) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ptprij
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:	>MC224301 representing NM_008982 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGCGGGAGGAGGCAGAGGGAGCAGCCGGGGCCGCGGGAGCCGGGAGCTGGGAGCCACGCGCGGAG
GGTGGGCGCCGCTCGCTCCGCCCGCGAAGCCCTGCGAGTCTAAGGCCGCGCCGCTCCGCGCCAGGCG
CGCTAGGCTCCGCGGTGTGGCCGCGCCGCGCCGCTGCCATGTCCCGGGGAAGCCGGGGCGGGCGGA
CGGGGACTAGGCGGACCGGCTGGCGGAGAAGGAGGCGGAGGCGTCCGGCTGGAGACGGAGACGAGGGCGC
CCGGCTTCGGGCACACGGCGGGGCGCTCCCGGGCACGTTCCAGGGCGCGCAGGGCATGAAGCCCGCGG
GCGGGAGACGCGGACACCCCGCGCTCGCCCGGCTCCGCTGGCGCTGCTGCCGCTGCTGCTGTTGCTA
CGCCAGGGCCAGGTCCTGTGCGCAGGTGCGGCACCGAATCCTATATTTGACATTGAAGCTGTCGTCAGCC
CAACTAGTGTGTTAATTAACATGGAAGCACAATGACTCAGGCGCTCAGAATGTAGAATAGAGAATAAGAT
GGAGAGCAATCTGACGTTTCTGTTAAAAACCAGACATCATGTAACATTACAGGCTTAAGCCAGGCACT
TCGTATACATTCTCCATCATCTCTGTAACAACCAATGAGACCTTGAACAAAATATCACACAGAGCCCT
GGCCAGTGTCTGATCTCCATGTCACTCTGTGGGTGTGACACAGGCTCGTCTACCTGGACAAATGCAAA
TGGCACTGCCTCCTACCGATGCTGATTGAAGAGTTGACCACACATTCTCAGTCAATATTTTCAGGTCG
AAGCCGGGACCAATAATAGCTTCGCTTTCCAGAATCAATGAGACACAGGCTGACTTTGCAGTTGCAG
AGGAGGTCGCCGATGCCAATGGTACCAAGAGAATCCAGTGACCAACCTATCCCACTACACAAGAATTC
TCTTGTCTCTGTGGACCCACCCTCTGGCCAGGATCCCTCCCTCACAGAGATCTTGCTTACTGACCTAAAG
CCTGATACTCAGTACAATGCCACCATCTATTCTCAAGCAGCAAATGGCACTGAAGGACAGCCAGGAACA
AAGTGTTAAAACAAATCCACCAGGTTTCTGACGTCGAGCTATGAACATCAGTGCCTCAAGCATGAC
CCTGACCTGAAAAGCAATTACGATGGTCCCGTACTTCAATTGTCTACAAAATACAGTGGCTGGGGG
ACCCACTCGTCAACCAAATGTCAATAAGACTGAGGCCATCATCCTCGGACTCAGCTCCAGCACCTTGT
ACAACATCACAGTTCATCTTTCTGGTCCAGCAGGAGGCACACAGGCTTCTCCAAGTGTACACTTC
CCCCGATCAGGTCCTGACTTCCGAGTGACAAATGTCAGCACAAGGGCAATTGGTTTGGCTTGGAGGAGC
AATGACTCCAAGTCTTCGAGATTTTCATCAAGCAGGACGGAGGTGAGAAGCATGAAATGCTTCGACGG



[View online »](#)

GAAACCAGAGCTATATGGTTGAAGATTTAAAGCCTGGAACCAGTTACCATTTTGAGATAATTCCACGAGG
 ACCAGACGGGACAGAAGGGCTGTCCAGTACAGTGAATGGGAGCACTGACCCAGTGTGTGACTGACATC
 CGGGTGGTCAACATTAGCACCCTGAAATGCAGTTGGAGTGGCAGAAATACGGACGATGCCTCTGGATACA
 CTTACCATTTAGTCTAGAGTCTAAAAGTGGCTCCATCATCAGGACCAACAGTTCTCAGAAGTGGATCAC
 AGTAGGGAGCCTACCCAGGCACCTTATACAATGTCACAATCTTCCAGAAGTGGACCAGATCCAGGGA
 ATCTCCAATCCATTACCCAGTACACACGGCCAGCAGTGTGCCACATTGAAGTAAACACCACCACCA
 CCACGGCAGCCATCCGATGGAAGAACGAGGACGCAGCCTCTGCTTCTATGCCTACTCCGCTCTTATCTT
 GAAGACTGGAGATGGCAGCAATGTAACCAGCACTTACAAAAAGACCCTTCTATTCTAATCCCTGAGTTA
 ATCCCTGGTGTCTTACACAGTGAAGATCCTTACACAAGTTGGGGATGGTACAACATCACTGGTACCTG
 GTTGAATCTGTTCTGTACGGAACCTGAACCAGTGACCTCCTTCCACTGTGAAGTGGTCCCTAAGGAGCC
 AGCATTGGTTCTCAAGTGGGCTGCCCTTTGGCATGTACACAGGCTTCGAGCTGGGGTTCAGGAGTGAT
 TCCTGGGACAATATGACACGCCTAGAGAAGTGCCTTCGGATGATGACACAGAGTGCAGGACGGAAGTGC
 CCTATTTGAATTTTCTACCTCGTACAACATCAGCATCGCCACCTTGTATGTGGGAAGTGGCGCTTCC
 CGCCAGAACATCTGCACCCTGGCATCACAGACCACCTACTCCGGATGGATCCCCTAATATTACATCG
 GTCAGTACAATTCAGTAAAGGTTAAGTTCAGCGGGTTTGAAGCCAGCCAGGACCTATCAAAGCCTATG
 CTGTCATCCTCACCACCGGGGAAGCTGCCAACCTTCTGCAAGTGTGTTGAAGTACACGATGAGGATTT
 CAAAAGGGGAGCCTCGGATACTTATGTCACATACCTCATAAGAATAGAAGAGAAGGGACAGTCTCAGGGC
 TTGTCTGAAGTCTTGAATATGAAATGATGTGGGGAACCAATCCACTACCCTCGGCTACTACAACGGGA
 GGCTGGAGCCTCTGGGCTCTACCGGGCTTGTGTTGCTGGCTTTACCAATATTACCTACAACCTTCAGAA
 TGACGGCTCATCAATGGGGATGAGAGCTATGTGCTTTCAGTCCATATTCAGAGGCCGTGTTCTTGCC
 CAGGACCCAGGTGCATCTGCGGAGCAGTGTGGATGTATCTTGGTGGCCTGGCCATCACAGCTGTGG
 GAGGCTTCATCTCTGGAGAAAAGAAAGGACAGATGCCAAGAATAATGAAGTGTCTTTTCTCAAATTA
 ACCTAAAAATCCAAGTTAATCCGAGTGGAGAATTTTGGGCTACTTTAAGAAGCAGCAAGCTGACTCT
 AACTGTGGGTTTGCAGAGGAATATGAGGACCTGAAGCTGATTGGGATAAGTTTACCTAAATACACAGCTG
 AGATAGCCGAGAACAGAGGGAAGAACCCTACAACAATGTTCTGCCCTATGATTTTTCTCGAGTCAAAT
 TTCAGTCCAGACCATTGACAGATGACTACATCAATGCCAATATATGCCTGGTACCATTCCAAGAAA
 GATTTTATTGCCACACAAGGACCTTTACCCAACACTTTGAAAGATTTCTGGCGTATGGTTTGGGAGAAA
 ACGTATATGCCATTGTTATGTTGACCAATGCGTGGAGCAGGGAAGGACCAATGTGAGGAGTACTGGCC
 TTCCAAGCAGGCTCAGGACTACGGGACATAACTGTGGCGATGACATCAGAAGTCGTTCTCCAGAATGG
 ACCATCAGAGATTTTGGTGAATAATGCAGAATAGCGAGAGCCATCCTCTGCGGCAGTTCATTTC
 CCTCTGGCCTGACCACGGTGTCTGACACCCTGACCTGCTCATCACTTTCCGTTACCTGGTCCGGGA
 TTACATGAAGCAGATACCCCGAGTACCAATCTGGTGCATTGCAAGTGTGGGTTGGAAGGACGGGC
 ACTTTCATCGCCATCGATCGCCTGATCTATCAGATAGAGAATGAGAACCCGTGGACGTGTATGGGATTG
 TCTATGACCTTCGGATGCACAGGCTCTGATGGTGCAGACAGAGGACAGTATGTTTTCTCAATCAGTG
 TGTTTTGGATATTATCAGAGCCAGAAAGACTCAAAGTTGATCTCATCTATCAGAACACAACGGCAATG
 ACAATCTATGAAAACCTCGAGCCAGTGAGCATGTTTGGAAAGACTAATGGTTACATCGCCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_008982
- Insert Size:** 4053 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_008982.5](#), [NP_033008.3](#)

RefSeq Size: 7634 bp

RefSeq ORF: 4053 bp

Locus ID: 19271

UniProt ID: [Q64455](#)

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]