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Product datasheet for MC224301

Ptprj (NM_008982) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptprj (NM_008982) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ptprj
Synonyms:	AI450271; BET; Byp; CD148; DEP-1; Ptpb2; PTPbeta2; RPTPJ; Scc-1; Scc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC224301 representing NM_008982
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGCGCGGAGGAGGCAGAGGGAGCAGCCGGGGCCGCGGGAGCCGGGAGCTGGGAGCCACGCGCGGAG
GGTGGGCGCCGCTCGCTCCGCCCCGCGAAGCCCCTGCGAGTCTAAGGCCGCGGCCGCTCCGCGCCAGGCG
CGCTAGGCTCCGCCGTGTGGCCGCCGCCGCCGCCGCTGCCATGTCCCCGGGGAAGCCCGGGGCGGGCGGA
GCGGGGACTAGGCGGACCGGCTGGCGGAGAAGGAGGCGGAGGCGTCGGCTGGAGACGGAGACGAGGGCGC
CCGGCTTCGGGCACACGGCGGGGCGCGTCCCGGGCACGTTCCAGGGCGCGCAGGGCATGAAGCCCGCGGC
GCGGGAGACGCGGACACCCCCGCGCTCGCCCGGGCTCCGCTGGGCGCTGCTGCCGCTGCTGCTGTTGCTA
CGCCAGGGCCAGGTCCTGTGCGCAGGTGCGGCACCGAATCCTATATTTGACATTGAAGCTGTCGTCAGCC
CAACTAGTGTGTTATTAACATGGAAGCACAATGACTCAGGCGCTTCAGAATGTAGAATAGAGAATAAGAT
GGAGAGCAATCTGACGTTTCCTGTTAAAAACCAGACATCATGTAACATTACAGGCTTAAGCCCAGGCACT
TCGTATACATTCTCCATCATCTCTGTAACAACCAATGAGACCTTGAACAAAACTATCACAACAGAGCCCT
GGCCAGTGTCTGATCTCCATGTCACCTCTGTGGGTGTGACACAGGCTCGTCTCACCTGGAGCAATGCAAA
TGGCACTGCCTCCTACCGGATGCTGATTGAAGAGTTGACCACACATTCCTCAGTCAATATTTCAGGTCTG
AAGCCGGGGACCAATAATAGCTTCGCTTTCCCAGAATCAAATGAGACACAGGCTGACTTTGCAGTTGCAG
AGGAGGTCCCGGATGCCAATGGTACCAAGAGAATCCCAGTGACCAACCTATCCCAACTACACAAGAATTC
TCTTGTCTCTGTGGACCCACCCTCTGGCCAGGATCCCTCCCTCACAGAGATCTTGCTTACTGACCTAAAG
CCTGATACTCAGTACAATGCCACCATCTATTCTCAAGCAGCAAATGGCACTGAAGGACAGCCCAGGAACA
AAGTGTTTAAAACAAATTCCACCCAGGTTTCTGACGTCCGAGCTATGAACATCAGTGCCTCAAGCATGAC
CCTGACCTGGAAAAGCAATTACGATGGGTCCCGTACTTCAATTGTCTACAAAATACACGTGGCTGGGGGG
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ACAACATCACAGTTCATCCTTTCCTGGGTCAGACGGAGGGCACACCAGGCTTCCTCCAAGTGTACACTTC
CCCCGATCAGGTCTCTGACTTCCGAGTGACAAATGTCAGCACAAGGGCAATTGGTTTGGCTTGGAGGAGC
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AATGACTCCAAGTCCTTCGAGATTTTCATCAAGCAGGACGGAGGTGAGAAGCATCGAAATGCTTCGACGG
GAAACCAGAGCTATATGGTTGAAGATTTAAAGCCTGGAACCAGTTACCATTTTGAGATAATTCCACGAGG
ACCAGACGGGACAGAAGGGCTGTCCAGTACAGTGAATGGGAGCACTGACCCCAGTGCTGTGACTGACATC
CGGGTGGTCAACATTAGCACCACTGAAATGCAGTTGGAGTGGCAGAATACGGACGATGCCTCTGGATACA
CTTACCATTTAGTTCTAGAGTCTAAAAGTGGCTCCATCATCAGGACCAACAGTTCTCAGAAGTGGATCAC
AGTAGGGAGCCTCACCCCAGGCACCTTATACAATGTCACAATCTTTCCAGAAGTGGACCAGATCCAGGGA
ATCTCCAACTCCATTACCCAGTACACACGGCCCAGCAGTGTGTCCCACATTGAAGTAAACACCACCACCA
CCACGGCAGCCATCCGATGGAAGAACGAGGACGCAGCCTCTGCTTCCTATGCCTACTCCGTCCTTATCTT
GAAGACTGGAGATGGCAGCAATGTAACCAGCAACTTCACAAAAGACCCTTCTATTCTAATCCCTGAGTTA
ATCCCTGGTGTCTCTTACACAGTGAAGATCCTTACACAAGTTGGGGATGGTACAACATCACTGGTACCTG
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AGCATTGGTTCTCAAGTGGGCCTGCCCCTTTGGCATGTACACAGGCTTCGAGCTGGGGGTCAGGAGTGAT
TCCTGGGACAATATGACACGCCTAGAGAACTGCACTTCGGATGATGACACAGAGTGCAGGACGGAAGTCG
CCTATTTGAATTTTTCTACCTCGTACAACATCAGCATCGCCACCTTGTCATGTGGGAAGATGGCGCTTCC
CGCCCAGAACATCTGCACCACTGGCATCACAGACCCACCTACTCCGGATGGATCCCCTAATATTACATCG
GTCAGTCACAATTCAGTAAAGGTTAAGTTCAGCGGGTTTGAAGCCAGCCACGGACCTATCAAAGCCTATG
CTGTCATCCTCACCACCGGGGAAGCTGCCCAACCTTCTGCAGATGTTTTGAAGTACACGTATGAGGATTT
CAAAAGGGGAGCCTCGGATACTTATGTCACATACCTCATAAGAATAGAAGAGAAGGGACAGTCTCAGGGC
TTGTCTGAAGTCTTGAACTATGAAATTGATGTGGGGAACCAATCCACTACCCTCGGCTACTACAACGGGA
GGCTGGAGCCTCTGGGCTCCTACCGGGCTTGTGTTGCTGGCTTTACCAATATTACCTACAACCTTCAGAA
TGACGGCCTCATCAATGGGGATGAGAGCTATGTGTCTTTCAGTCCATATTCAGAGGCCGTGTTCTTGCCC
CAGGACCCAGGTGTCATCTGCGGAGCAGTGTTTGGATGTATCTTTGGTGCCCTGGCCATCACAGCTGTGG
GAGGCTTCATCTTCTGGAGAAAGAAAAGGACAGATGCCAAGAATAATGAAGTGTCCTTTTCTCAAATTAA
ACCTAAAAAATCCAAGTTAATCCGAGTGGAGAATTTTGAGGCCTACTTTAAGAAGCAGCAAGCTGACTCT
AACTGTGGGTTTGCAGAGGAATATGAGGACCTGAAGCTGATTGGGATAAGTTTACCTAAATACACAGCTG
AGATAGCCGAGAACAGAGGGAAGAACCGCTACAACAATGTTCTGCCCTATGATATTTCTCGAGTCAAACT
TTCAGTCCAGACCCATTCGACAGATGACTACATCAATGCCAACTATATGCCTGGCTACCATTCCAAGAAA
GATTTCATTGCCACACAAGGACCTTTACCCAACACTTTGAAAGATTTCTGGCGTATGGTTTGGGAGAAAA
ACGTATATGCCATTGTTATGTTGACCAAATGCGTGGAGCAGGGAAGGACCAAATGTGAGGAGTACTGGCC
TTCCAAGCAGGCTCAGGACTACGGGGACATAACTGTGGCGATGACATCAGAAGTCGTTCTTCCAGAATGG
ACCATCAGAGATTTTGTGGTGAAAAATATGCAGAATAGCGAGAGCCATCCTCTGCGGCAGTTCCATTTCA
CCTCCTGGCCTGACCACGGTGTTCCTGACACCACTGACCTGCTCATCAACTTTCGGTACCTGGTCCGGGA
TTACATGAAGCAGATACCCCCCGAGTCACCAATTCTGGTGCATTGCAGTGCTGGGGTTGGAAGGACGGGC
ACTTTCATCGCCATCGATCGCCTGATCTATCAGATAGAGAATGAGAACACCGTGGACGTGTATGGGATTG
TCTATGACCTTCGGATGCACAGGCCTCTGATGGTGCAGACAGAGGACCAGTATGTTTTCCTCAATCAGTG
TGTTTTGGATATTATCAGAGCCCAGAAAGACTCAAAAGTTGATCTCATCTATCAGAACACAACGGCAATG
ACAATCTATGAAAACCTCGAGCCAGTGAGCATGTTTGGAAAGACTAATGGTTACATCGCCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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).

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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]

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