

Product datasheet for MC224164

Ptprc (NM_00111316) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptprc (NM_00111316) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ptprc
Synonyms: B220; Cd45; CD45R; L-CA; loc; Ly-5; Lyt-4; T200
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224164 representing NM_00111316
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACCATGGGTTTGTGGCTCAAACCTTCTGGCCTTTGGATTTGCCCTTCTGGACACAGAAGTCTTTGTCA
 CAGGGCAAACACCTACACCCAGTGATGAACTGAGCACAACAGAGAATGCCCTTCTTCTGCCTCAAAGTGA
 CCCCTTACCTGCTCGCACCAGTGAATCCACACCCCAAGCATCTCTGAAAGAGGAAATGGCTCTTCAGAG
 ACCACATATCATCCAGGTGTGTTATCCACGCTGCTGCCTCACCTGTCCCCACAGCCTGACTCGCAGACGC
 CCTCTGCCGAGGAGCTGACACTCAGACATTCAGCAGCCAAGCTGACAATCCCACACTCACGCCTGTCC
 CGGCGGGGGACTGACCCACCAGGTGTGCCAGGGGAGAGGACTGTACCGGGGACCATTCTCGCAGACACA
 GCCTTTCTGTTGATACCCCCAGCCTTGCACGCAACAGCTCTGCTGCCTCACCTACACACACCTCCAATG
 TCAGCACCACAGATATCTTTCAGGTGCCAGCCTCACAACCTTACACCATCCACTCTGGGCCTTGCAAG
 CACTGACCCTCCAAGCACAACCATAGCTACCACAACGAAGCAAACATGTGCTGCCATGTTGGGAACATT
 ACTGTGAATTACACCTATGAATCTAGTAATCAGACTTTTAAAGGCAGACCTCAAAGATGTCCAAAAATGCTA
 AGTGTGAAATGAGGATTGTGAAAACGTGTTAAATAATCTAGAAGAATGCTCACAGATAAAAAACATCAG
 TGTGTCTAATGACTCATGTGCTCCAGCTACAACCTATAGATTTATGTACCACCAGGACTGACAAGTTT
 TCGCTACATGACTGCACACCAAAAAGAAAAGGCTAATACTTCAATTTGTTGGAGTGGAAAAACAAAAAACC
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 ACATGTGTAGCAGAAATCTTATATCGCGGTGTA AAAACTCGTCAAAAATGTTATAAATGTGCAGACAGATT
 TGGGGATTCCAGAAACGCCTAAGCCTAGTTGTGGGGATCCAGCTGCAAGAAAAACGTTAGTCTCTTGGCC
 TGAGCCTGTATCTAAACCTGAGTCTGCATCTAAACCCATGGATATGTTTTATGCTATAAGAACAATTCA
 GAAAAATGTAAGTTTTCCTAATAATGTGACCAGTTTTGAGGTGAAAGCTTGAACCTTATAAATACT
 ATGAAGTGTCCCTACTTGCCTATGTCAATGGGAAGATTCAAAGAAATGGGACTGCTGAGAAGTGCATTT
 TCACACAAAAGCAGATCGTCCGGACAAGGTCAATGGAATGAAAACCTCCCGGCCGACAGACAATAGTATA
 AATGTTACATGTGGTCTCCTTATGAAACTAATGGCCCTAAAACCTTTTACATTTTGGTAGTCAGAAGTG



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GAGGTTCTTTTGTACAAAATACAACAAGACAACTGTCAGTTTTATGTAGATAATCTCTACTATTCAAC
 TGA CTATGAGTTTCTGGTCTCTTTTACAATGGAGTGTACGAGGGAGATTCA GTTATAAGAAATGAGTCA
 ACAAATTTTAA TGCTAAAGCACTGATTATATTCCTGGTGTCTGATTATTGTGACATCAATAGCCTTGC
 TTGTTGTTTTGTATAAAATCTATGATCTGCGCAAGAAAAGATCCAGCAATTTAGATGAACAACAGGAACT
 CGTTGAAAGGGATGATGAAAAGCAGCTGATGGATGTGGAGCCAATCCATTCTGACATTTTGTGGAAACA
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 CTATGATTATAACCGTGTGGAACCTCTGAAATAAATGGAGATGCAGGGTCCACCTACATAAATGCCAGC
 TACATTGATGGCTTCAAGGAACCCAGGAAATACATTGCTGCACAAGGGCCCCGGGATGAGACAGTTGATG
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 CAGGAACAAGTGCGCAGAATACTGGCCAAGCATGGAGGAAGGCACTCGGGCTTTCAAAGATATTGTTGTG
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 CAGAGGGCAAAGTGGATGCTATGGTTATGTTGTCAAGCTAAGGGCAGAGAGGTGCTGATGGTGCAAGT
 GGAGGCACAGTATATCCTGATTCATCAGGCTTTAGTGGAAACAATCAGTTTGGAGAAAACAGAAGTGAAC
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 AGGCTGAATACCAGAGACTTCTTCATACAGGAGTTGGAGGACACAGCATTGGAAATCAAAGAAGAAA
 TAAGAAGAAGAACAGGAATCTAATGTTGTTCCATATGACTTTAACAGAGTGCCACTTAAGCATGAACTG
 GAGATGAGCAAAGAGAGTGAGCCTGAATCAGATGAGTCTTCAGATGATGACAGTGACTCAGAAGAAACCA
 GCAAATACATTAATGCATCCTTTGTGATGAGTTACTGGAACCCAGAAATGATGTTGCTGCTCAGGGGCC
 ACTAAAAGAAACGATCGGTGACTTTTGGCAGATGATATTCCAAAGAAAAGTCAAAGTTATTGTGATGTTG
 ACAGAGTTAGTGAATGGAGACCAGGAAGTCTGTGCTCAGTACTGGGGCGAAGGAAAGCAGACTTATGGAG
 ACATGGAAGTGGAGATGAAAGACACAAACAGAGCCTCAGCCTACACTCTCCGAACTTTTGAGCTGAGACA
 TTCCAAGAGGAAGGAGCCAGAACTGTGTACCAGTACCAGTGTACCACATGGAAAGGGGAAGAGCTGCCT
 GCAGAACCCAAAGACCTGGTGTCTATGATTGAGGACCTCAAACAGAAGCTTCCCAAGGCTTCCCAGAA
 GGATGAAGTATCACAAGCATGCATCCATCCTCGTCCACTGCAGAGATGGATCCCAGCAGACAGGGTTGTT
 CTGTGCCTTGTCAATCTCTGGAAAGTGCAGAAACAGAAGATGTGGTTGATGTTTTCAAAGTGGTAAAG
 TCTCTACGCAAAGCACGGCTGGGGTGGTGTGCAGCTATGAGCAATACCAGTTCCTCTATGACATCATCG
 CCAGCATCTATCCCGCCAGAATGGACAAGTCAAGAAAACAACAGCCAAGACAAAATTGAATTTTCATAA
 TGAAGTGGATGGAGGCAAGCAGGATGCTAACTGTGTCCTCCAGATGGTCCCTCTGAATAAAGCCAGGAA
 GACAGCAGAGGGGTGGGAACCCCGAGCCTACCAATAGTCTGAGGAACCCAGAACATGCTGCCAATGGTT
 CTGCGAGCCCAGCTCCAACCCAGAGTTCA TAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001111316
- Insert Size:** 3882 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_001111316.2](#), [NP_001104786.2](#)

RefSeq Size: 5568 bp

RefSeq ORF: 3882 bp

Locus ID: 19264

UniProt ID: [P06800](#)

Cytogenetics: 1 60.73 cM

Gene Summary: Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor. Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN (By similarity). Dephosphorylates LYN, and thereby modulates LYN activity. [UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note:.