

Product datasheet for **MC223735**

Ptprc (NM_011210) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptprc (NM_011210) 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: >MC223735 representing NM_011210
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCATGGGTTTGTGGCTCAAACCTTCTGGCCTTTGGATTTGCCCTTCTGGACACAGAAGTCTTTGTCA
 CAGGGCAAACACCTACACCCAGTGATGGTGCCAGCCTCACAACCTTTACACCATCCACTCTGGGCCTTGC
 AAGCACTGACCCTCCAAGCACAACCATAGCTACCACAACGAAGCAAACATGTGCTGCCATGTTTGGGAAC
 ATTACTGTGAATTACACCTATGAATCTAGTAATCAGACTTTTAAGGCAGACCTCAAAGATGTCCAAATG
 CTAAGTGTGAAATGAGGATTGTGAAAACGTGTTAAATAATCTAGAAGAATGCTCACAGATAAAAAACAT
 CAGTGTGCTAATGACTCATGTGCTCCAGCTACAACCTATAGATTTATATGTACCACCAGGGACTGACAAG
 TTTTCGCTACATGACTGCACACCAAAAAGAAAAGGCTAATACTTCAATTTGTTGGAGTGGAAAAACAAAA
 ACCTTGATTTTCAGAAAATGCAACAGTGACAATATTTTCATATGACTCCACTGTGAGCCAGAAAATAATAC
 AAAATGCATTAGAAGAAATACATTCATACCTGAAAGATGTCAGTTGGACAACCTTCGTGCCCAACAAAT
 TACACATGTGTAGCAGAAATCTTATATCGCGGTGTAACCTCGTCAAAAATGTTATAAATGTGCAGACAG
 ATTTGGGGATCCAGAAACGCCTAAGCCTAGTTGTGGGGATCCAGCTGCAAGAAAACGTTAGTCTCTTG
 GCCTGAGCCTGTATCTAAACCTGAGCTGCATCTAAACCCATGGATATGTTTTATGCTATAAGAACAAT
 TCAGAAAATGTAAGTTTGCCTAATAATGTGACCAGTTTTGAGGTGGAAGCTTGAAACCTTATAAAT
 ACTATGAAGTGTCCCTACTTGCCTATGTCAATGGGAAGATTCAAAGAAATGGGACTGCTGAGAAGTGCAA
 TTTTCACACAAAAGCAGATCGTCCGGACAAGGTCAATGGAATGAAAACCTCCCGCCGACAGACAATAGT
 AATAATGTTACATGTGGTCTCCTTATGAAACTAATGGCCTAAAACCTTTTACATTTTGGTAGTCAGAA
 GTGGAGGTTCTTTGTTACAAAATACAACAAGACAACTGTCAGTTTTATGTAGATAATCTCTACTATTC
 AACTGACTATGAGTTTCTGGTCTCTTTTACAATGGAGTGTACGAGGGAGATTCAAGTATAAGAAATGAG
 TCAACAAATTTAATGCTAAAGCACTGATTATATTCCTGGTGTCTGATTATTGTGACATCAATAGCCT
 TGCTTGTGTTTTGTATAAAATCTATGATCTGCGCAAGAAAAGATCCAGCAATTTAGATGAACAACAGGA
 ACTCGTTGAAAGGGATGATGAAAAGCAGCTGATGGATGTGGAGCCAATCCATTCTGACATTTTGTGGAA
 ACATACAAAAGGAAGATTGCTGATGAGGGCAGACTGTTCTGGCTGAATTCAGAGCATTCCACGGGTAT



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TCAGCAAGTTTCCCATCAAAGATGCCCGAAAGCCCCACAATCAGAATAAAAAACCGTTATGTTGACATTCT
 TCCCTATGATTATAACCGTGTGGAACCTCTGAAATAAATGGAGATGCAGGGTCCACCTACATAAATGCC
 AGCTACATTGATGGCTTCAAGGAACCCAGGAAATACATTGCTGCACAAGGGCCCCGGATGAGACAGTTG
 ATGACTTCTGGAGGATGATCTGGGAGCAAAAGGCCACAGTTATTGTCATGGTACACAGATGTGAAGAAGG
 AAACAGGAACAAGTGCAGCAATACTGGCCAAGCATGGAGGAAGGCACTCGGGCTTCAAAGATATTGTT
 GTGACAATCAATGACCACAAACGATGCCTGATTACATCATTAGAAGCTGAACGTTGCACATAAAAAAG
 AAAAAGCAACTGGAAGAGAAGTACTCATATCCAATTCACCAGTGGCCAGACCATGGGGTTCCTGAAGA
 CCTCACCTGCTCCTCAAACCTCGACGGAGAGTTAATGCTTTTAGCAACTTCTTCAGTGGTCCCATTGTG
 GTGCACTGCAGTCTGGTGTGGCGTACAGGTACCTACATTGGAATTGATGCCATGCTGGAAGGCTGG
 AAGCAGAGGGCAAAGTGGATGTCTATGGTTATGTTGTCAAGCTAAGGCGACAGAGGTGTCTGATGGTGCA
 AGTGGAGGCACAGTATATCCTGATTATCAGGCTTTAGTGAATACAATCAGTTTGGAGAAAACAGAAGTG
 AACTTGTCTGAGTTACATTCATGCCTACACAACATGAAGAAGAGAGATCCACCCAGTGACCCCTCCCCTC
 TGGAGGCTGAATACCAGAGACTCCTTCATACAGGAGTTGGAGGACACAGCATTGGAAATCAAGAAGA
 AAATAAGAAGAAGAACAGGAATTCTAATGTTGTTCCATATGACTTAAACAGAGTGCCACTAAGCATGAA
 CTGGAGATGAGCAAAGAGAGTGAGCCTGAATCAGATGAGTCTTCAGATGATGACAGTGACTCAGAAGAAA
 CCAGCAAATACATTAATGCATCCTTTGTGATGAGTTACTGGAAACCAGAAATGATGATTGCTGCTCAGGG
 GCCACTAAAAGAAACGATCGGTGACTTTTGGCAGATGATTTCCAAAGAAAAGTCAAAGTTATTGTGATG
 TTGACAGAGTTAGTGAATGGAGACCAGGAAGTCTGTGCTCAGTACTGGGCGAAGGAAAGCAGACTTATG
 GAGACATGGAAGTGGAGATGAAAGACACAACAGAGCCTCAGCCTACACTCTCCGAACTTTTGAGCTGAG
 ACATTCGAAGAGGAAGGAGCCAGAACTGTGTACCAGTACCAGTGTACCACATGGAAGGGGAAGAGCTG
 CCTGCAGAACCCAAAGACCTGGTGTCTATGATTCAGGACCTCAAACAGAAGCTTCCCAAGGCTTCCCAG
 AAGGGATGAAGTATCACAAGCATGCATCCATCCTCGTCCACTGCAGAGATGGATCCCAGCAGACAGGGTT
 GTTCTGTGCCTTGTCAATCTCTTGGAAAGTGCAGAAACAGAAGATGTGGTTGATGTTTTCCAAGTGGTA
 AAGTCTCTACGCAAAGCACGGCCTGGGGTGGTGTGCAGCTATGAGCAATACCAGTTCCTCTATGACATCA
 TCGCCAGCATCTATCCCAGCAGAAATGGACAAGTCAAGAAAACAAACAGCCAAGCAAAATTGAATTTCA
 TAATGAAGTGGATGGAGGCAAGCAGGATGCTAACTGTGTCCGTCAGATGGTCTCTGAATAAAGCCAG
 GAAGACAGCAGAGGGGTGGAAACCCCGAGCCTACCAATAGTGCTGAGGAACCAGAACATGCTGCCAATG
 GTTCTGCGAGCCAGCTCAACCCAGAGTTCA TAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_011210
- Insert Size:** 3465 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_011210.4](#), [NP_035340.3](#)

RefSeq Size: 5249 bp

RefSeq ORF: 3465 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 (2) lacks three in-frame exons in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.