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Product datasheet for MC229399

Ptprc (NM_001268286) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptprc (NM_001268286) 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:	>MC229399 representing NM_001268286 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGACCATGGGTTTGTGGCTCAAACTTCTGGCCTTTGGATTTGCCCTTCTGGACACAGAAGTCTTTGTCA CAGGGCAAACACCTACACCCAGTGATGCTACCACAACGAAGCAAACATGTGCTGCCATGTTTGGGAACAT TACTGTGAATTACACCTATGAATCTAGTAATCAGACTTTTAAGGCAGACCTCAAAGATGTCCAAAATGCT AAGTGTGGAAATGAGGATTGTGAAAACGTGTTAAATAATCTAGAAGAATGCTCACAGATAAAAAACATCA GTGTGTCTAATGACTCATGTGCTCCAGCTACAACTATAGATTTATATGTACCACCAGGGACTGACAAGTT TTCGCTACATGACTGCACACCAAAAGAAAAGGCTAATACTTCAATTTGTTTGGAGTGGAAAACAAAAAAC CTTGATTTCAGAAAATGCAACAGTGACAATATTTCATATGTACTCCACTGTGAGCCAGAAAATAATACAA AATGCATTAGAAGAAATACATTCATACCTGAAAGATGTCAGTTGGACAACCTTCGTGCCCAAACAAATTA CACATGTGTAGCAGAAATCTTATATCGCGGTGTAAAACTCGTCAAAAATGTTATAAATGTGCAGACAGAT TTGGGGATTCCAGAAACGCCTAAGCCTAGTTGTGGGGATCCAGCTGCAAGAAAAACGTTAGTCTCTTGGC CTGAGCCTGTATCTAAACCTGAGTCTGCATCTAAACCCCATGGATATGTTTTATGCTATAAGAACAATTC AGAAAAATGTAAAAGTTTGCCTAATAATGTGACCAGTTTTGAGGTGGAAAGCTTGAAACCTTATAAATAC TATGAAGTGTCCCTACTTGCCTATGTCAATGGGAAGATTCAAAGAAATGGGACTGCTGAGAAGTGCAATT TTCACACAAAAGCAGATCGTCCGGACAAGGTCAATGGAATGAAAACCTCCCGGCCGACAGACAATAGTAT AAATGTTACATGTGGTCCTCCTTATGAAACTAATGGCCCTAAAACCTTTTACATTTTGGTAGTCAGAAGT GGAGGTTCTTTTGTTACAAAATACAACAAGACAAACTGTCAGTTTTATGTAGATAATCTCTACTATTCAA CTGACTATGAGTTTCTGGTCTCTTTTCACAATGGAGTGTACGAGGGAGATTCAGTTATAAGAAATGAGTC AACAAATTTTAATGCTAAAGCACTGATTATATTCCTGGTGTTTCTGATTATTGTGACATCAATAGCCTTG CTTGTTGTTTTGTATAAAATCTATGATCTGCGCAAGAAAAGATCCAGCAATTTAGATGAACAACAGGAAC TCGTTGAAAGGGATGATGAAAAGCAGCTGATGGATGTGGAGCCAATCCATTCTGACATTTTGTTGGAAAC ATACAAAAGGAAGATTGCTGATGAGGGCAGACTGTTCCTGGCTGAATTTCAGAGCATTCCACGGGTATTC AGCAAGTTTCCCATCAAAGATGCCCGAAAGCCCCACAATCAGAATAAAAACCGTTATGTTGACATTCTTC

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CCTATGATTATAACCGTGTGGAACTCTCTGAAATAAATGGAGATGCAGGGTCCACCTACATAAATGCCAG
CTACATTGATGGCTTCAAGGAACCCAGGAAATACATTGCTGCACAAGGGCCCCGGGATGAGACAGTTGAT
GACTTCTGGAGGATGATCTGGGAGCAAAAGGCCACAGTTATTGTCATGGTCACACGATGTGAAGAAGGAA
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TCTGTGCCTTGTTCAATCTCTTGGAAAGTGCAGAAACAGAAGATGTGGTTGATGTTTTCCAAGTGGTAAA
GTCTCTACGCAAAGCACGGCCTGGGGTGGTGTGCAGCTATGAGCAATACCAGTTCCTCTATGACATCATC
GCCAGCATCTATCCCGCCCAGAATGGACAAGTCAAGAAAACAAACAGCCAAGACAAAATTGAATTTCATA
ATGAAGTGGATGGAGGCAAGCAGGATGCTAACTGTGTCCGTCCAGATGGTCCTCTGAATAAAGCCCAGGA
AGACAGCAGAGGGGTGGGAACCCCGGAGCCTACCAATAGTGCTGAGGAACCAGAACATGCTGCCAATGGT
TCTGCGAGCCCAGCTCCAACCCAGAGTTCATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001268286

Insert Size: 3393 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001268286.1, NP_001255215.1
RefSeq Size:	5177 bp
RefSeq ORF:	3393 bp
Locus ID:	19264
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 (3) lacks four in-frame exons in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 3), compared to isoform 1.