

Product datasheet for **MC222937**

Ptprh (NM_207270) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptprh (NM_207270) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ptprh
Synonyms:	R-PTP-H; sap-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC222937 representing NM_207270
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCAGAGCTGGTGGGAAGTGTGGGGTTTGGAGGAGCTTGGTGTCTATTGGGTTTGTATGGTTGTCTG
 TGGTCAAGGCAGCTGGTACCAGTGTACAGTGGACAGGCATGCTCCTGCTTCTTCATACGAGTTTCCAT
 GTGGGTAGAGAAAAGATGGCGTCAGCAGCTCCCCACAGATTCTGTAAACCACCGCAGCCCCAAACCCAGT
 AGAAACCTGAGGGTGAAGGTCAAACAACATCTCCATCAGCCTGAGCTGGGAGCCTCCTGATCAGTCTCT
 CCCTGCAGGGCCTCACCTACTGGACCCAGTGCAGTAGACATGGTGGCCAACTGAGACCCGGAACACAAC
 AGACACCAGTGTACCGTGGATGGCCTTGTCTGGGTCTTCATATGAATGTTCTGTGTGGGTGGAAAAG
 GATGGACTCTATAGCAAAAATGAGACTCTCAATACCAGCACAGCTCCAAACCCAGTGAGAAACCTGAGGG
 TCGAAGGTCAAACAACATCTCCATCAGCCTGAGCTGGGAGCCTCCTGATCAGCCCTCCCTGCAGGGCCT
 CACCTACTGGGCCAGTGCAGTAGACATGGTGGCCAACTGAGACCCGGAACACAGCAGACACCAGTGTCT
 ACCGTGGATGGACTTGATCCTGGGTCTTCATATGAATGTTCTGTGTGGGTGGAAAAGGATGGAGTCTATA
 GCACCAATGAGACTCTCAATACCAGCACAGCCCCAAACCCAGTGAGAAACCTGAGGGTGAAGGTCAA
 CAACATCTCCATCAGCCTGAGCTGGGAGCCTCCTGATCAGCCCTCCCTGCAGGGCCTCACCTACTGGGCC
 CAGTGCAGTAGACATGGTGGCCAACTGAGACCCGGAACACAACAGACACCAGTATTACCGTGGATGGAC
 TTGATCCTGGGTCTTCATATGAATGTTCTGTGTGGGTGGAAAAGGATGGAGTCTATAGCACCAATGAGAC
 TCTCAGTAACACCACAGCCCCAAACCCAGTGAGAAACCTGAGGGTCAAAGTGAACAACCTTCTCCATC
 AGCCTGAGCTGGGAGCCTCCTGATCAGCCCTCCCTGCAGGGCCTCATCTACTGGGCCAGTGCAGTAGAC
 ATGGTGGCCAACTGAGACCCGGAACACAACAGACACCAGTGTACCCGTGGATGGACTTGATCCTGGGTT
 TTTATATAAATGTTCTGTGTGGGTGGAAAAGGATGGAGTCTATAGCACCAATGAGACTCTCAATACCAGC
 ACAGTCCCCATTTAGCCTCAAACCCAGTGAGAAACCTGAGGGTGAAGGTGAGAACAACTTCTCCATCA
 GCCTGAGCTGGGAGCCTCCTGATCAGTCTCCCTGCAGGGCCTCACCTACTGGGCCAGTGCAGTAGACA
 TGGTGGCCAACTGAGACCCGGAACACAGCAGACACCAGTGTACCCGTGGATGGCCTTGTCTGGGTCT
 TCATATGAATGTTCTGTGTGGGTGGAAAAGGATGGAGTCTATAGCACCAATGAGACTCTCAATACCAGCA
 CAGTACCAGTGTGTCAACATCACCTCCTGCATCAGCACTTCTGGGGATATGGGGTCTCCTGACCTG
 GTCCTGCCATCTGGGGTTATGAGAGCTTTGAGGTAAAAGTGGGTAGGAAATGGCGCTCTGAAAATGGA
 TCTTTGTGTGGGAAGGGCTGACCGTGTGAGTCTTGGCCAGCTCAGTCTACACAGCCACCGTACGA
 CTGCTTCAAGGACCTGAAGGCCAGTCTCTCTACAACCTTGCCACACAGAGAGTGCAGCCATCATTGC
 TGGAGCCATTGTGGGCATCCTCCTGCTTTTCATCCTGGTGGGTCTGCTGATTGTCTTCTGAAGAGGAGG
 AGAAAAGAGACAGCCCAAGGAAGTGCCTAAGGATCTGGTGTGACAGTCCCGAGGGGATATCCTGGCCA
 AAGACTTTGCTGACCATGTGAGGGAGAATGAGAAGGACAGCAACTGTGGATTTGCTGAGGAGTATCAGCA
 ACTGGCTCTGGAGGGCAAGGCCAGTCTCAAATAACGGCATCGGCTCTAGAGAACAGATCCAAGAACC
 TACAGGAATGACTGCCCTATGACTGGTCCCGGTTCCCTGCAGCCCTCCAAGAGGAACAGGCTCTG
 ACTATATCAACGCCAGCTTTATGCCTGGTCTCTGGAGCCCCAAGGAGTTCATTGCAACCCAGGGTCCCCT
 GCCTAACACTGTGGGTGATTTTTGGAGAATGGTCTGGAAACAGCAGAGCCACACCCTGGTTATGCTGACC
 AACTGCATGGAGTCTGGACGGTGAAGTGTGAGCACTACTGGCCCTTGGATGCTCAGCCTTGCAATCATG
 GGCAGCTGCAGGTAATGTTGATTAGTGAGGAGGCGTCAGAAAACCTGGACAGTGGGCATCTTCAACTCTT
 CCATATGAAAGAACAGCAGACTCTCTGTTGCGCAATTCACACTACCTGGCCTGGCCAGACCATGGAGTT
 CCTTACTCCCCAGACCCCTGCTGGCTTCCGAAAGATGCTTCGGCAATGGATGGATCAGACCACGGATG
 GAGGTCCACCCATTGTGCATTGCAGTGTGGTGTGGGCCGACGGGCACCCTAATTGCACTGGATGCTCT
 GCTGCGGACGCTGGAGTGTGAGGGGCTGGTGGTCCCTCAGCTTTGTGAAGAAGATGAGAGAGAGCCGG
 CCACTGATGGTGCAGACAGAGGCCAGTATGTGTTCTCCACCAGTGCATCTTGAATCCCTCCAGAAGC
 CAGCTCCAGCCCTGTCCAGAGGAGCAATGTATGAGAACGTGGCAAGCTTAGTTTATGAGAATGCATC
 TGCTATCATGGCCATGAGTCTGAGTCTCAGCTTCTGGGTGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_207270
Insert Size:	2916 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:	<ol style="list-style-type: none">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_207270.2 , NP_997153.2
RefSeq Size:	4020 bp
RefSeq ORF:	2916 bp
Locus ID:	545902
UniProt ID:	E9Q0N2
Cytogenetics:	7 A1
Gene Summary:	Protein phosphatase that may contribute to contact inhibition of cell growth and motility by mediating the dephosphorylation of focal adhesion-associated substrates and thus negatively regulating integrin-promoted signaling processes. Induces apoptotic cell death by at least two distinct mechanisms: inhibition of cell survival signaling mediated by PI 3-kinase, Akt, and ILK and activation of a caspase-dependent proapoptotic pathway. Inhibits the basal activity of LCK and its activation in response to TCR stimulation and TCR-induced activation of MAP kinase and surface expression of CD69. Inhibits TCR-induced tyrosine phosphorylation of LAT and ZAP70. Inhibits both basal activity of DOK1 and its CD2-induced tyrosine phosphorylation. Induces dephosphorylation of BCAR1, focal adhesion kinase and SRC. Reduces migratory activity of Jurkat cells (By similarity). Reduces tyrosine phosphorylation of CEACAM20 and thereby contributes to suppress the intestinal immune response (PubMed:26195794).[UniProtKB/Swiss-Prot Function]