

Product datasheet for **MC220576**

Ptpre (NM_011212) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpre (NM_011212) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ptpre
Synonyms:	PTPe; PTPepsilon; RPTPEpsilon
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220576 representing NM_011212
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCCCTTCTGTCCACTCCTGCTGGCAAGTTTACTGTGCTCGCCAGAGCTGGCCAGGGCAACG
 ACACCACCCCAACAGAGAGCAACTGGACCAGCACAACTGCAGGCCCTCCGGACCCTGGTGCATCCCAGCC
 GCTGCTCACTGGCTGCTGCTGCCCTGCTCCTCCTGTTCTGCTTGCAGCCTACTTCTCAGGTTT
 CGGAAGCAGAGGAAGGCCGTGGTCAGCAGCAACGACAAGAAAATGCCTAACGGGATCTTAGAAGAGCAAG
 AGCAGCAGAGAGTGATGCTGCTGAGCAGATCTCCATCAGGCCCAAGAAGTTCTTCCCCATCCCCGTGGA
 GCACCTGGAGGAGGATCCGGGTGAGATCTGCGGATGACTGCAAGCGATTCCGAGAGGAGTTCAATTCA
 TTGCCATCTGGACACATAACAAGAACCTTTGAACTAGCAAATAAAGAAGAAAACAGAGAAAAAACAGAT
 ACCCCAACATTCTGCCAATGATCATTGCAGAGTGATTTTGGCCAAAGTGGATGGAATCCCCTGCTCTGA
 CTACATTAATGCTTCTACATCGATGGTACAAAGAAAAGAACAATTCATAGCAGCTCAAGGCCCTAAG
 CAGGAGACAGTGAATGACTTCTGGAGAATGGTCTGGGAGCAAAGGTGAGCCACCATCGTCATGTTGACGA
 ACCTGAAGGAGAGGAAGGAGGAGAAGTGCTACCACTACTGGCCAGACCAGGGCTGTTGGACCTACGGCAA
 CATCCGGGTGTGTAGAGGACTGCGTGGTCTGGTGGATTACACGATCCGAAAGTTCTGCATCCATCCG
 CAACTCCCAGACAGCTGCAAAGCCCCGGCTGGTCTCACAGCTGCATTCACCAGCTGGCCTGACTTCCG
 GGGTCCGTTTACCCCATCGGGATGCTCAAGTTCCTGAAGAAAGTGAAGACACTCAACCCTCATATGC
 TGGGCCATTGTGTTTACTGTAGCGGGCGTGGGTGGACTGGCACCTTCATTGTGATCGATGCCATG
 ATGGACATGATACTCGGAGCAGAAGTTGACGTCTTTGAGTTTGTGTCTAGAATCCGCAATCAGCGCC
 CTCAGATGGTCCAGACGGATGTTTCAATTCATCTACCAAGCCTTACTGGAATACTACCTCTATGG
 GGACACAGAGCTGGATGTGCTCCTCCCTGGAGAGGCACCTGCAGACGCTCCATAGCACAGCCACCCATTTT
 GACAAGATCGGGCTGGAGGAAGAGTTTCAAGAAAGTGAACCAAGTGCGAATCATGAAGGAGAACATGAGGA
 CGGGCAACCTGCCTGCCAACATGAAGAAGGCCCGCTCATCCAGATCATTCCATATGACTTCAATCGGGT
 CATCTGTCCATGAAAAGAGGGCAAGAGTTCACAGACTATCAACGCATCCTTCATAGATGGCTACAGG
 CAGAAGGACTACTTCATGGCCACACAGGGGCTCTGGCTCACACAGTTGAGGACTTCTGGAGGATGGTAT
 GGGAGTGAAGTCTCACACAATCGTCATGCTGACGGAGGTGCAGGAGCGGGAACAGGATAAATGCTACCA
 GTATTGGCCAACGGAGGGCTCGGTGACTCATGGAGATATAACTATAGAGATAAAGAGCGACACCCTGTCT
 GAAGCAATCAGCGTACGAGACTTCTGGTTACCTTCAAACAGCCCCTGGCCCGCCAGGAAGAGCAGGTCC
 GCATGGTGGAGACAATCCATTTCCATGGCTGGCCTGAGGTTGGCATCCCCGCTGAAGGCAAAGGCATGAT
 TGACCTGATTGCAGCAGTGCAGAAGCAGCAGCAGCAGACGGGCAACCACCCCATCACCGTGCATGCAGC
 GCGGGAGCAGGGCGGACAGGTACATTATAGCACTCAGTAACATTTTGGAACGAGTGAAGCCGAGGGAC
 TCCTAGACGTGTTTCAAGCTGTGAAGAGCTTAAGACTTCAGAGACCACACATGGTGCAGACCCTGGAGCA
 ATATGAATCTGCTACAAAGTGGTACAAGATTTTATCGATATATTTTCTGATTATGCTAATTTCAAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_011212
Insert Size: 2100 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_011212.3](#), [NP_035342.3](#)

RefSeq Size: 5411 bp

RefSeq ORF: 2100 bp

Locus ID: 19267

UniProt ID: [P49446](#)

Cytogenetics: 7 81.27 cM

Gene Summary: Isoform 1 acts as a negative regulator of insulin receptor (IR) signaling and is involved in insulin-induced glucose metabolism mainly through direct dephosphorylation and inactivation of IR in hepatocytes and liver (By similarity). Plays a critical role in signaling transduction pathways and phosphoprotein network topology in red blood cells. May play a role in osteoclast formation and function.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) contains an alternate exon in the 5' end compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Variants 2 and 3 both encode the same isoform (b). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.