

Product datasheet for **SC109676**

PTP epsilon (PTPRE) (NM_006504) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTP epsilon (PTPRE) (NM_006504) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTP epsilon
Synonyms:	HPTPE; PTPE; R-PTP-EPSILON
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_006504 edited
CGGCCGCGAAATTCGGCACGAGGCCCTCGTGCCGAATTCGGCACGAGGGGAATACTCAGTA
AATGATGTATTGCCTTTCGCATCAGTAGCCTGCTTGAAATGTTCAAATTATCAGCCCAG
GAGACTCCAGTGTGTGGACATGGGTCTGAACGAATTGATCACCTAGGGGCTACTGAGAA
CGCGGTGCTCTGTCCACCATGGAGCCCTTGTGTCCACTCTGCTGGTGGGTTTTAGCTTG
CCGCTCGCCAGGGCTCTCAGGGGCAACGAGACCACTGCCGACAGCAACGAGACAACCACG
ACCTCAGGCCCTCCGGACCCGGGGCCCTCCAGCCGCTGCTGGCCTGGCTGCTACTGCCG
CTGCTGCTCCTCCTCGTGTCTTCTCGCCGCTACTTCTTTCAGTTTCAGGAAGCAG
AGGAAAGCTGTGGTCAGCACCAGCGACAAGAAGATGCCAACGGAATCTTGGAGGAGCAA
GAGCAGCAAAGGGTGATGCTGCTCAGCAGGTCACCCTCAGGGCCCAAGAAGTATTTTCCC
ATCCCCGTGGAGCACCTGGAGGAGGAGATCCGTATCAGATCCGCCGACGACTGCAAGCAG
TTTTCGGGAGGAGTTCAACTCATTGCCATCTGGACACATACAAGGAACCTTTGAACTGGCA
AATAAAGAAGAAAACAGAGAAAAAACAGATATCCCAACATCCTTCCCAATGACCATTCT
AGGGTGATTCTGAGCCAACCTGGATGGAATTCCTGTTTCAGACTACATCAATGCTTCTAC
ATAGATGGTTACAAAGAGAAGAATAAATTCATAGCAGCTCAAGGTCCCAAACAGGAAACG
GTTAACGACTTCTGGAGAATGGTCTGGGAGCAAAGTCTGCGACCATCGTCATGTTAACA
AACTTGAAAGAAAGGAAAGAGGAAAAGTGCCATCAGTACTGGCCCGACCAAGGCTGCTGG
ACCTATGGAAACATCCGGGTGTGCGTGGAGGACTGCGTGGTTTTGGTCGACTACACCATC
CGGAAGTTCTGCATACAGCCACAGCTCCCGACGGCTGCAAAGCCCCCAGGCTGGTCTCA
CAGCTGCACCTTACCAGCTGGCCGACTTCGGAGTGCCTTTTACCCCATTTGGGATGCTG
AAGTTCCTCAAGAAAGTAAAGACGCTCAACCCCGTGCACGCTGGGCCCATCGTGGTCCAC
TGTAGCGCGGGCTGGGCCGGACGGGCACCTTCATTGTGATCGATGCCATGATGGCCATG
ATGCACGCGGAGCAGAAGGTGGATGTGTTGAATTTGTGTCTCGAATCCGTAATCAGCGC
CCTCAGATGGTTCAAACGGATATGCAGTACACGTTTCATCTACCAAGCCTTACTCGAGTAC
TACCTCTACGGGACACAGAGCTGGACGTGCCTCCCTGGAGAAGCACCTGCAGACCATG
CACGGCACCAACCCACTTCGACAAGATCGGGCTGGAGGAGGAGTTCAGGAAATTGACA
AATGTCCGGATCATGAAGGAGAACATGAGGACGGGCAACTTGCCGGCAAACATGAAGAAG
GCCAGGGTATCCAGATCATCCCGTATGACTTCAACCGAGTGATCCTTTCCATGAAAAGG
GGTCAAGAATACACAGACTACATCAACGCATCCTTCATAGACGGTACCGACAGAAGGAC
TATTTTCATCGCCACCCAGGGCCACTGGCACACACGGTTGAGGACTTCTGGAGGATGATC
TGGGAATGGAAGTCCCACACTATCGTGATGCTGACGGAGGTGCAGGAGAGAGAGCAGGAT
AAATGCTACCAGTATTGGCCAACCGAGGCTCAGTTACTCATGGAGAAATAACGATTGAG
ATAAAGAATGATACCCTTTCAGAAGCCATCAGTATACGAGACTTCTGGTCACTCTCAAT
CAGCCCCAGGCCCGCCAGGAGGAGCAGGTCGAGTAGTGCGCCAGTTTCACTTCCACGGC
TGGCCTGAGATCGGGATTCGCCCGAGGGCAAAGGCATGATTGACCTCATCGCAGCCGTG
CAGAAGCAGCAGCAGACAGGCAACCAACCCCATCACCCTGCACTGCAGTGCCGGAGCT
GGGCGAACAGGTACATTCATAGCCCTCAGCAACATTTTGGAGCGAGTAAAAGCCGAGGGA
CTTTTAGATGATTTCAAGCTGTGAAGAGTTTACGACTTCAGAGACCACATATGGTGCAA
ACCCTGGAACAGTATGAATTCGCTACAAGTGGTACAAGATTTTATTGATATATTTTCT
GATATGCTAATTTCAAATGAAGATTCCTGCCTTAAAATATTTTTTAAATTTAATGGTCA
GTATATTTGTAATAATCATGTTAATTTATTTTCATAGTTGACATTAATATCTTCCCTAAT
TTCTTTGTATATATTTTGTATGCCTTAAAGGCCACCTGTATACAGTTGTTAAATCTTA
AATATGCTTTTTTAAAATTTGGATAATGTATTAAGGTCAAATAATATCCCATAAAATATAT
ATTTCTGCTAATATTA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006504 unedited
 CTTGGGCCGGCCTCGTGCCTTTTGGGGACGAGGGGNAATACTCAGTAAATGATGTATTG
 CCTTTTCGCATCAGTAGCCTGCTTGGAAATGTTCAAATTATCAGCCCAGGAGACTCCAGTG
 CTGTGGACATGGGTCTGAACGAATTGATCACCTAGGGAGCTACTAGAAAACCTCGGCTGCC
 CTGTCCACCATGGAGCCCTTGTGTCCACTCCTGCTGGTGGGTTTTAGCTTGCCGCTCGCC
 AGGGCTCTCAGGGGCAACGAGACCCTGCCGACAGCAACGAGACAACCACGACCTCAGGC
 CCTCCGGACCCGGGCGCCTCCCAGCCGCTGCTGGCCTGGCTGCTACTGCCGCTGTGCTC
 CTCTCCTCGTGTCTCTTCTCGCCGCTACTTCTTCAGGTTTCAGGAAGCAGAGGAAAGCT
 GTGGTCAGCACACGACAAGAAGATGCCCAACGGAATCTTGGAGAGCAAGAGCAGCAA
 AGGGTGATGCTGCTCAGCAGGTACCCTCAGGGCCCAAGAAGTATTTTCCATCCCCGTG
 GAGCACCTGGAGGAGGAGATCCGTATCAGATCCGCCGACGACTGCAAGCAGTTTCGGGAG
 GAGTTCAACTCATTGCCCTCTGGACACATAACAAGAACTTTTGAACCTGGCAATTACGAA
 GAAAACAGAGGAAAAACAGATATCCCAACATCCTTTCAAAGACCATTCTAGGGTGATC
 CTGAGCCAACTGGATGGAATCCCTGTTTCAGACTACATCAATGCTTCCCCTAGATGGTT
 ACAAGAGGAAAAATAAATTCCTAGCAGCCTAAGGTCCCAACAGAAAACGGTAACGACTC
 CTGAAAATGGTCCCGGGAGCAAATCTGCGACCTTCGTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006504 unedited
 NTTTTACTCTGGACCCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTT
 CCCGTCAGTCAATCTTATCTGGTAATGGGATCATTACTGTTATCCAGTGCAATGGTCTC
 AGTAGTATTTCCATTCAAAAATAATTTAGCTTTTAAATTAAGGATTTCTCTTTTGTGTTT
 ATTAACATTGAAAGGTGGGACTTTAAAAAATGGTATAAATCTAGATTTTAAAGGATCCTT
 TTCTTACAAACTGTCTCAGCTTTTTACAAGAAATGTTTAAATACCAAAATGCTGCTCAGA
 AAATTTAAAGTTAATTGCCCGTGGTTATTCTACTGTTTCTATCCTAATGTGTGCTCCTC
 TGTAAGTGCCTGTGTAAGACGCTCAGTTCATCTGAATGTTTGGATGGGAAGTTTTGTGTTG
 AGCCTCCAGGCATAGCACTGGACCAGCCAGGCCGCTGTGGCAAACGGGAGGGGAGAAT
 GGGAGAGGCAGCTGGTTTTTTCTGAGGGTGGTCTGGGCCAAACGACAGGCAGCTGGACA
 GCAATGGTGTCTTGGGGTGAACCTCCGATGGCTGGTTTTGTTGTACCAACGCCGTGGG
 TCAACGGGACCACCCAGCATTACATCTCTTCTCGTTCAGCCAAGATAGTGTAAACACAG
 CTTTGATGGTGTAGACACAGCATTAAAAATATTATTTATAGTACCAGCTACTAGTG
 TGTTTTAGACCTGGATTAGGTTGTAAAGACTTCTTTGATCTTTAAATGTAAAGATAAAC
 CACATGGACCCGAAACTGAGAACTNTACAGAGTCCCCATTTACATTGTACCATCACGAA
 CAGTTTGCCTTCCAAAATGCTGCTGGTCAGGGTTGTGATCCACTGCTAGGAAAGGCCATT
 TCGCACTGACTTTTGAGTTTTAACCGTTTTCT

Restriction Sites:

NotI-NotI

ACCN:

NM_006504

Insert Size:

3460 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_006504.3 , NP_006495.1
RefSeq Size:	5376 bp
RefSeq ORF:	2103 bp
Locus ID:	5791
UniProt ID:	P23469
Cytogenetics:	10q26.2
Domains:	Y_phosphatase, PTPc_motif
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
Gene Summary:	<p>The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. Several alternatively spliced transcript variants of this gene have been reported, at least two of which encode a receptor-type PTP that possesses a short extracellular domain, a single transmembrane region, and two tandem intracytoplasmic catalytic domains; another one encodes a PTP that contains a distinct hydrophilic N-terminus, and thus represents a nonreceptor-type isoform of this PTP. Studies of the similar gene in mice suggested the regulatory roles of this PTP in RAS related signal transduction pathways, cytokine-induced SATA signaling, as well as the activation of voltage-gated K⁺ channels. [provided by RefSeq, Oct 2015]</p> <p>Transcript Variant: This variant (1) lacks a 5' exon compared to variant 3. The resulting isoform (1) is shorter at the N-terminus compared to isoform 3. The encoded protein is a receptor type isoform of this PTP. Variants 1, 4, and 5 all encode the same isoform (1).</p>