

Product datasheet for **SC118370**

PCPTP1 (PTPRR) (NM_002849) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCPTP1 (PTPRR) (NM_002849) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCPTP1
Synonyms:	EC-PTP; PCPTP1; PTP-SL; PTPBR7; PTPRQ
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_002849 edited
GGCGGCCGCAATTCGGCACGAGGGCCTTGGCTTCTGGGCGTCCAGAAGGCCAGGCATTT
GCCGCCTCTGAGCGCTTCTGTTCCCTTACCCGCAACCTCCTACTGCTCTTCTCTCTCC
CTCTCTTAGGGAGGTTGAAGCTGGTGTGGTTTCTGTCCGGCCACAGACTGACTGCTCT
GCAAACCCAGCCGAGGACCTGAATCCCGGAGACTAGAAGACCCTTGGCGGTGGCTCTTT
CTAATAGCACTTTACCTGAAGTGGGTCTGGTGGAGTTTCTCCTCCACCTCTCAATGCA
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GCAGGGTGCTTTTTCAGGAAACAATGATCATTTTTTGGCAATTAATCAGAAGAAGAGTGGG
AAGCCGGTATTCAATTTATAAGCATTACAAAGACATTGAGAAGAGCCTGGATATAGCCCCA
CAAAAAATCTACAGACATAGCTACCATTCTCTTCCGAAGCTCAAGTAAGCAAACGCCAC
CAGATTGTCAATTCAGCATTTCCTAGACCCGCATATGACCCGTCTCTCAATCTGTGGCC
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GTGACACTGCAAATGGATGTAACAAGCTGAACATAACCTTGCTTCGGATCTTCCGCCAA
GGAGTGGTGCAGCTTTAGGACTCTTACCCAGCAAGTGCACATCAATCGCCTCATTGGA
AAGAAGAACAGTATTGAACTGTTTGTGTCTCCATAAACCGAAAAACAGGAATTTCTGAT
GCTCTGCCCTCTGAGGAAGTTCTTCGTTCACTTAATATCAATGTTTTGCATCAAAGTTTA
TCCCAGTTTGAATTACAGAAGTCTCTCCTGAGAAAAATGTTTTACAAGGCGAGCATGAA
GCGGACAAAAATCTGGAGCAAAGAAGGATTTTATGCTGTTGTCAATTTTCTCAGCATCTTT
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TTAAGACAAGACAAGAGAAAAACCAGGAGATCCACCTATCGCCCATCACATTACAGCCA
GCACTGTCCGAGGCAAAGACAGTCCACAGCATGGTCCAACCTGAGCAGGCCCCAAAGGTA
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AGCCACACCCAACATGTGAAGCATTACTGGTACACCTCATGGCCTGATCACAAGACTCCA
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GTTTATCACACAGCCTAAGGCAGATTTTGTGTTGCTGTACTGACTCTATCTGCCACACA
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ACT
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002849 unedited
 TGTAATACGACTCACTATAGGGCGGCCGACTTCGGCACGAGGGCCTTGGCTTCTGGGC
 GTCCAGAAAGCCAGGCATTTGCCGCTCTGAGCGCTTCTGTTCCCTTACCCGCAACCTC
 TACTGCTCTTCTCTCTCCCTCTTATAGGAGGTTGAAGCTGGTGTGGTTTCTGTCGG
 CGCCACAGACTGACTGCTCTGCAAACCCAGCCGAGGACCTGAATCCCGGAGACTAGAAG
 ACCCTTGGCGGTGGCTCTTTCTAATAGCACTTTACCTGAAGTGGGGTCGTGGTGGAGTTT
 CTCTCCACCTCTCAATGCAAACACTATGCGGAGAGCAGTCTGCTTCCCTGCGCTGTGCC
 TGCTCCTTAATCTTACGCTGCAGGGTGCTTTTACAGAAACAATGATCATTTTTTGGCAA
 TTAATCAGAAGAAGAGTGGGAAGCCGGTATTCATTTATAAGCATTACAAAGACATTGAGA
 AGAGCCTGGATATAGCCCCACAAAAATCTACAGACATAGCTACCATTCTCTTCCGAAG
 CTCAAGTAAGCAAACGCCACCAGATTGTCAATTCAGCATTTCTAGACCCGCATATGACC
 CGTCTCTCAATCTGCTGGCCATGGATGGTCAAGATCTTGAAGTGGAAAATCTCCCAATCC
 CAGCAGCAAATGTAATTGGTGTGACTGCNAATGGATGTAACAAGCTGAACATAACCT
 TGCTTCGGATCTCCGCCAGGAGTGGCTGCANGCTTTAGACTCTTACCCAGCAAGTGCA
 CATCAATCGCCTCATTGAAAAGAAGACAGTATNGAACTNNGTTGTGTCTCCCATAACCG
 AAAAACANGAATTTCTGATGCTCCTGCCTCTGAGAAGTTCTTCGCACTTATAATCATGT
 TTGCATCAATTTATTCCAGTTGGAATTCAGAAGTCTCTGAAAAAATGTTACANGGNCN
 CATGAAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002849 unedited
 GCGGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTAGTATTAAGAGTTTATT
 GGCAGTATGAAACAAAGTCAACATTGCTGCATTAATAATTCATATATGAGCAGAACAGCT
 AGTGTGTTGCTGAGGGTAGTTATTTAATTTTTTTTGTCTTGAAGATTGAAAGCTTTCA
 GAAATGTAAGGACATACATGAAATGTCCTTATAAGGAGCCTCGAAAATGGGACAGATTA
 TATCATTCTGAAGGCATATACCTTTTGTGAGAGAGAGATTCCAGGTAGATAGCATATT
 CAAAAATCCCTTCTTAGCAAAAGAGAGACAAGTAGTAAAACCTTTGATACTTCAGAGTT
 GCTACAAATTTGTTTTCCCTTTTAAAGTAAAATGACTCACGATGTGGAAATACAGTGGAA
 TAGAGTTCTGGAGCAGAAGCCACCTTTATGCCAATAATAGAGAGTAAATACATATATAC
 CCAATGACAATCATTGTGCTCTGTAATTGTTGATAGGAGGGACTATAAATACACATTTA
 ATAGGTAATATTATCAAGACACATTTCCATATAAAATAGTTACTGTTTTGATTTTTGTT
 TTTCAAAAACAAAGACTTCTCTGTTAAAAATCCATTAATCATCACTTGCAACTTTTAGCC
 GCAAGATTCTGGTAACCTGAGAAAGGTAATAGCCACTTAAAACAGGACCAGTTTAAACAGC
 TGACAGTCTTTTACAGACAGATTTTTGCAACCCTAAAAGCTCTACCACATATCCGAAT
 GTCTTACCAGCTCATCCAGTTTTAACCTGAAGAACCTTTATTACGGATATTACCATACA
 TCCTTTCTTGGGGGGCGAAAGAAGTTACTCCAGCACACACAAAATTTCTGCCTTAGGGTG
 GGGAAACAAAACCTATCTACCCTCCTCTATTA AAAACCTTTCAAATATTGGGGGAAGC
 CTAACAATGCTCTCTATTACCAAG

Restriction Sites:

NotI-NotI

ACCN:

NM_002849

Insert Size:

4040 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_002849.2 , NP_002840.1
RefSeq Size:	3492 bp
RefSeq ORF:	1974 bp
Locus ID:	5801
UniProt ID:	Q15256
Cytogenetics:	12q15
Domains:	Y_phosphatase, PTPc_motif
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
Protein Pathways:	MAPK signaling pathway
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. This PTP possesses an extracellular region, a single transmembrane region, and a single intracellular catalytic domain, and thus represents a receptor-type PTP. Silencing of this gene has been associated with colorectal cancer. Multiple transcript variants encoding different isoforms have been found for this gene. This gene shares a symbol (PTPRQ) with another gene, protein tyrosine phosphatase, receptor type, Q (GeneID 374462), which is also located on chromosome 12. [provided by RefSeq, May 2011]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest protein (isoform 1, also referred to as isoform alpha). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>