

Product datasheet for **SC128013**

PCPTP1 (PTPRR) (NM_130846) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCPTP1 (PTPRR) (NM_130846) 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)
Fully Sequenced ORF:	>OriGene ORF within SC128013 sequence for NM_130846 edited (data generated by NextGen Sequencing)

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ATGATTCTTTACAGATTAAGAAAAGATTTTCAGCTTTCCTTAAGACAAGACAAAGAGAAA
AACCCAGGAGATCCACCTATCGCCCATCACATTACAGCCAGCACTGTCCGAGGCAAAGACA
GTCCACAGCATGGTCCAACCTGAGCAGGCCCAAAGGACTGAATGTTGTCGTGGACCCT
CAAGGCCGAGGTGCTCCTGAGATCAGAGCTACCACCGCTACCTCTGTTTGCCTTCTCCT
TTCAAAATGAAGCCCATAGGACTTCAAGAGAGAAGAGGGTCCAACGTATCTTTACATTG
GACATGAGTAGCTTGGGGAACATTGAACCCTTTGTGTCTATACCAACACCACGGGAGAAG
GTAGCAATGGAGTATCTGCAGTCAGCCAGCCGAATTCTCACAAGGTCTCAGCTGAGGGAC
GTCGTGGCAAGTTCACATTTACTCCAAAGTGAATTCATGGAAATACCAATGAACCTTGTG
GATCCCAAAGAAATTGATATTCCGCGTCATGGAATAAAATCGCTATAAGACCATTTTA
CCAAATCCCTCAGCAGAGTGTGTTAAGACCAAAAAATGTAACCGATTCAATTGAGCACC
TACATTAATGCTAATTATATTAGGGCTACAGTGGCAAGGAGAAAAGCCTTCATTGCCACG
CAGGGCCCATGATCAACACCGTGGATGATTTCTGGCAGATGGTTTGGCAGGAAGACAGC
CCTGTGATTGTTATGATCACAACCTCAAAGAAAAAATGAGAAATGTGTGCTATACTGG
CCGGAAAAGAGAGGGATATATGGAAAAGTTGAGGTTCTGGTTATCAGTGTAAATGAATGT
GATAACTACCATTCGAAACCTTGTCTTAAAGCAAGGAAGCCACACCCAACATGTGAAG
CATTACTGGTACACCTCATGGCCTGATCACAAGACTCCAGACAGTGCCCGAGCCCTCCTA
CAGCTCATGTGGATGTAGAAGAAGACAGACTTGCTTCCAGGGCCGAGGGCCTGTGGTT
GTCCACTGCAGTGCAGGAATAGGTAGAACAGGGTGTGTTTATTGCTACATCCATTGGCTGT
CAACAGCTGAAAAGAAGAAGGAGTTGTGGATGCACTAAGCATTGTCTGCCGCTTCGTATG
GATAGAGGTGGAATGGTGCAAACAGTGAGCAGTATGAATTTGTGCACCATGCTCTGTGC
CTGTATGAGAGCAGACTTTCAGCAGAGACTGTCCAGTGA

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Clone variation with respect to NM_130846.2
206 a=>g



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_130846 unedited</p> <pre>CGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCAGAACTCTTACCTATGAACC AGGTAGTTTCCAAGAGAGACGCTGAGGGATGTTTAGAAAGCCTGGGACCTGCAGATGCCA TGTCAGGCACGCTTGCTCCTGCATAGGAGACTAAATAATCTCGATATAAAGGATGGCAG TCTGTTGTCTTAGATCAGTTTGAGAAGCAGCTCTGGCAGCGGGGGGTGTAGGTGTGTTGC ACTACACTGAATGGAATAAGGCTAAAAATATGTTTAGTGTCTGATAAGAACGCCAGTTTT CTCAAGCTCTCATTTAACGTCGGACTTTCTGTTTTGCTTTTAAAGAAAAATGTTTTACAA GGGCAGCATGAAGCGGACAAAATCTGGAGCAAAGAAGGATTTTATGCTGTTGTCATTTTT CTCAGCATCTTTGTTATTATAGTAACGTGTTTGATGATTCTTTACAGATTAAGAAAGA TTTTCAGCTTTCCTTAAGACAAGACAAAGAGAAAAACCAGGAGATCCACCTATCGCCCATC ACATTACAGCCAGCACTGTCCGAGGCAAAGACAGTCCACAGCATGGTCCAACCTGAGCAG GCCCCANAGGTAAGTGAATGTTGTCGTGGACCCTCAANGCCGAGTCTCCTGAGATCAGAG CTACCACCGCTACCTCTGTTGCCCTTCTCCTTCAAATGAAGCCCATNNAGACTCAGAG AGAGAGGGTCCACGTATCTCTACATTGACATGAGTAGCTTGGGGACCATGACCCTGTGT CTATACACACCACGNAGAAGTACATGGAGTTCTGCATCAGCAGGATCTCACAGTCCACT GAGGACTCGTGGCATTCCATTACTCAAAGTGATCTGGAATACCATGACTGNGACCCAGA ATGATTCCGGTATGGACTAAATGCTTAGACTTTACCAATC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_130846 unedited</p> <pre>ANGAGCCTGGGNAGGGTACAGGGCTGCCACCCGGGATCTGTTTCAGGAAACAGCTATGA CCGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTAGAGTTCTGGAGCAGAAG CCACCTTTATGCCAATAATAGAGAGTAAATACATATATACCCAATGACAATCATTGTGC TCTGTAATTGTTGATAGGAGGGACTATAAATACACATTTAATAGGTAATATTATCAAGA CACATTTCCATATAAAATAGTTACTGTTTTTGATTTTTGTTTTTCAAAAACAAAGACTTC TCTGTTAAAAATCCATTATCAATCACTTGAACCTTAGCAGCAAGATTCTGGTAACTGAG AAAGGTAATAGCACTTCAAAACAGGAACAGTTTAAACAGCTGACAGTCCATTCACAAGACA GATTTTGCAAACATTAAGCATCTAACACATAATACGAATGTCTTCAGCAGCTCATCCAG TCATCACCTGATGACATTTACTGAATATTACATACATACATTCTGTGTGGCAGATAG AGTCAGTACAGACAAAACAAAATCTGCCTTAGGCTGTGTGATAAACCTATCATACCTCCA TCATCAAAAACCTTCAGAATAATTTGGGGGATGCTTACAAATGCATTCATATACACAAG GAGCTGGAAATCTAAATATGTTGCCAGTCTTCCACAATCCATGCCATACATGGGCTTC AGAGCTTCTCCTTCCATTGCAGGAAGCTCCTTCTAGAAGCCTTGGGTGGGTAATTT GATTAATCACCCCAAGAGATTGATGGTCTGACAAGTCTTCAATGACTCACTGGACAGTCT CTGCTGAAAGTCTGCTCTCATACAGGCACAGAGCA</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_130846
Insert Size:	2500 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:

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_130846.1](#), [NP_570897.1](#)

RefSeq Size: 2733 bp

RefSeq ORF: 1239 bp

Locus ID: 5801

UniProt ID: [Q15256](#)

Cytogenetics: 12q15

Domains: Y_phosphatase

Protein Families: Druggable Genome, Phosphatase, Transmembrane

Protein Pathways: MAPK signaling pathway

Gene Summary: 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]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2, also referred to as isoform gamma) has a distinct N-terminus and is shorter than isoform 1.