

Product datasheet for **SC116956**

PRCP (NM_005040) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRCP (NM_005040) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRCP
Synonyms:	HUMPCP; PCP
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 sequence for NM_005040 edited
GAATTCGGCACGAGGGTCTCCAGCCTGAGCCATGGGCCGCGGAGCCCTCCTGCTCCTGCT
TCTGTCTTTTCTGGCGCCCTGGGCCACCATAGCCCTCCGGCCGGCCTTAAGGGCCCTCGG
CAGCCTACACTTGCCAACCAACCCACATCCCTCCCGGCTGTAGCCAAGAAGTATTTCGGT
TCTCTACTTCCAACAGAAGGTTGATCATTTTGGATTTAATACTGTGAAAACCTTTTAAATCA
GCGGTACCTAGTAGCTGATAAATACTGGAAGAAAAATGGTGGATCAATACTTTTCTACAC
TGGTAATGAAGGGGACATTATCTGGTTTTGTAATAACACGGGGTTCATGTGGGATGTGGC
TGAGGACCTGAAAGCTATGTTGGTGTTCCTGAAACATCGATACTATGGAGAGTCTCTCCC
CTTTGGTGACAACCTATTCAAGGATTCCAGACACTTGAATTTCCCTGACATCAGAACAAGC
TCTGGCTGATTTTGCAGAGTTAATCAAACACTTGAAGAACAATCCCAGGAGCTGAAAA
TCAACCTGTCATTGCCATAGGAGGCTCCTATGGTGGCATGCTTGCCGCCTGGTTTAGGAT
GAAATATCCTCATATGGTAGTTGGAGCTCTTGACGCTTCTGCCCTATCTGGCAGTTTGA
GGATTTAGTACCTTGTGGTGTATTTATGAAGATCGTAACACAGATTTTAGGAAAAGCGG
TCCACATTGTTCCAGAGAGCATCCACAGGCTCTGGGATGCCATTAATCGACTCTCAATAC
TGGCAGTGGTTTGCAGTGGCTTACTGGAGCCCTCACTTATGCAGCCCATTAACCTCTCA
GGACATCCAACATTTGAAAGACTGGATCTCTGAAACCTGGGTGAATCTGGCAATGGTGGG
CTATCCTTATGCCTCTAACTTTTACAGCCTTTCCTGCTTGGCCTATCAAGGTAGTGTG
CCAGTATTTGAAAAATCCAATGTATCTGATTCAGTCTGCTGCTGCAGAATATTTTCCAAGC
TCTGAATGTATATTACAATTTTCGGGCCAGGTGAAATGCCTGAATATTTTCCAGAGACAGC
AACTAGCAGTCTGGGAACACTGGGTTGGAGCTATCAGGCTGCACAGAAGTAGTCATGCC
CTTTTGTACTAATGGTGTGATGACATGTTTGAACCTCACTCATGGAACCTAAAGGAACT
TTCTGATGACTGTTTTCAACAGTGGGGTGTGAGACCAAGGCCCTCCTGGATCACTACTAT
GTATGGAGGCAAAAACATTAGTTACACACAAAACATTGTTTTTCCAGCAATGGTGAACATA
CCCTGGTCAGGAGGTGAGTAACCTAAGGATATCACAGACACTCTGGTTGCAGTCAACAT
CTCAGAGGGGGCCACCCTTAGATCTCCGCACCAAGAATGCCTTGGATCCTATGTCTGT
GCTGTTAGCCCGCTCCTTGAAGTTAGACATATGAAGAATTGGATCAGAGATTTCTATGA
CAGTGGCGGAAAGCAGCACTGAGAACTTTTGATTGTTTTCAATTTCTTTTATGTTT
ACACCACCACATTTCCATTCACTTTGATTTTCTACATGTAATTACCTTCTTTTGTATC
ATTAGATTTGATGGGGCCAAAGTTGAGATAGAATAGAGGGTGTGACGGTAAGAGCAAGT
GTCCCATGAATGTGATTTCTGGGTTCTCACTGTCTTTGCACCACGTCTAGGAAGATCT
TCTTGATAGCTCTCCACACCATCAGTGGCCCTCATACTGGAGTAGAGTTCTGGTTGC
TTTTCATAGAGGGAGAGTTACTTTCTTTGTATCTCTGCAAGCAGAGATTTCTCTTTGGT
TTTGAGGTTGAAGTGTCTTTGGCCATTTGTAAGTCCCATCCCTACCCTACACAAAGTA
AAAGCAGAAGATAGATAAAAAATGATGTAATTGCAGCTGGTAGGATGTCTGGTGCCAATC
CAGGAAGTGAGAGCCATTTCTTTGTACCGGATTTAATGACTTTGAACTGTGCTGTAAT
AAATAATACAGCTGGACCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAACTCGAC
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005040 unedited GGGTGTCANAATTGTAACGACTCACTATAGGCGGCCGGAATTCGCACGAGGTCTCCA GCCTGAGCCTGGGCCGCCGAGCCCTCCTGCTCCTGCTTCTGTCTTTCTGGCGCCCTGGG CCACCATAGCCCTCCGGCCGGCCTTAAGGGCCCTCGGCAGCCTACACTTGCCAACCAACC CCACATCCCTCCCGCTGTAGCCAAGAATACTCGGTTCTACTTCCAACAGAAGGTTG ATCATTTTGGATTTAATACTGTGAAAACCTTTAATCAGCGGTACCTAGTAGCTGATAAAT ACTGGAAGAAAAATGGTGGATCAATACTTTTCTACACTGGTAATGAAGGGGACATTATCT GGTTTTGTAATAACACGGGTTTCATGTGGGATGTGGCTGAGGACCTGAAAGCTATGTTGG TGTTTGCTGAACATCGATACTATGGAGAGTCTCTCCCTTTGGTGACAACTCATTCAAGG ATTCCAGACACTTGAATTTCTGACATCAGAACAAGCTCTGGCTGATTTTGCAGAGTTAA TCAAACACTTGAAAAGAACAATCCAGGAGCTGAAAATCAACCTGTCATTGCCATAGGAG GCTCCTATGGTGGCATGCTTGCCGCTGGTTTAGGATGAAATATCCTCATATGGTAGTTG GAGCTCTGCAGCTTCTGCCCTATCTGGCAGTTTGGAGATTTAGTACCTTGGTGGTGA TTTATGAAAGATCGTAACACAGATTNTAGGAAAAGCGGTCCACATTGTTGAGAGAGCAT NCACAGGTCCTGGGATGCCATTAATCGACTCTCAAATACTGGCAGTGGTTTTGCAGTGGC TACTGGAGCCCTCCTTATGCAGCCCTAATCTCTCAGGACTCCACATTTGAAGNATG G</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005040 unedited GGGGCGGCCGAANGNNNGNTCTCCCTTCNNNNNNNNNGNNTTGCAGTACGNCNCNGGACCCG CATTTTANGATCGAGTT TTTTTTTTTTTTAAAGGGCCCGTGTATTTATTTACCGCACAGTTCAAAGTCTTTAA ATCCGGGCCAAAAAAAAGGGCTCTCACTTCTGGATGGGCCCAAACATCCTACCAGCTG CAATTACATCATTTTTTATCTATCTTTTCTTTACTTTGGGGAGGGTAGGGAGGGGGAC TTCAAAGGGGCCAAAAACCTTTAACCTCAAAACCAAAAAAATCTTTGCTTGCAAAA ATACAAAAAAGTAACTCTCCCTTTATGAAAAGCACCCCGGAACCTTCTCCAGTTATG AGGGCCCTGTAGGGGGGGAAAGCTATCAAAAAAATCTTCTAAACGGGGGGCAAGA CAGGGAAAACCCAGGAAATCCATTCATGGGACACTTGCTTACCCTCATCACCCCTAT TTATCTCAACTTTGGCCCATCAAATCTAATGATAAACAAGAAAGTAATTACCTGTA AAAAACCAAGTGAATGGGAATGTGGTGGTGTGAACCTAAAAGAAAAAATGAAAAAC TCAAAAGTTTCTCAGTGCTGCTTTCCCGCCCTGCATAAGAAATCTCTTGACCCAATTT TTCATATGGCTTACCTTCCAAGGAGCGGCTTAAACAGCCAAACATTTGATCCCAGGGCT TTTTTGGTGCGGAAAACAAAGGGGGGGCCCTTTGAGATGGGGACTGCACCCAGGG GCGGGGAAACCTTAGCTCACCCCTCCTGCCAGGGTTTATTTCCCTTGGTGAAAA CAAGTGTGGGGGGAACAGGGTTTGGCCCATCAAANAAGGACCCCGGAGGCCTTTG TTCTCCCCCCTGTGAAAACGCCTTCAAAGGCCCTTTAGTCCCTGGGGGGGGCA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_005040
Insert Size:	2140 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_005040.2 , NP_005031.1
RefSeq Size:	2161 bp
RefSeq ORF:	1491 bp
Locus ID:	5547
UniProt ID:	P42785
Cytogenetics:	11q14.1
Domains:	abhydrolase
Protein Families:	Druggable Genome, Protease, Transmembrane
Gene Summary:	<p>This gene encodes a member of the peptidase S28 family of serine exopeptidases. The encoded preproprotein is proteolytically processed to generate the mature lysosomal prolylcarboxypeptidase. This enzyme cleaves C-terminal amino acids linked to proline in peptides such as angiotension II, III and des-Arg9-bradykinin. The cleavage occurs at acidic pH, but the enzyme activity is retained with some substrates at neutral pH. This enzyme has been shown to be an activator of the cell matrix-associated prekallikrein. The importance of angiotension II, one of the substrates of this enzyme, in regulating blood pressure and electrolyte balance suggests that this gene may be related to essential hypertension. A pseudogene of this gene has been identified on chromosome 2. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Jan 2016]</p> <p>Transcript Variant: This variant (1) encodes isoform 1. 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>