

Product datasheet for **SC128292**

PRCP (NM_199418) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRCP (NM_199418) 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: >OriGene ORF within SC128292 sequence for NM_199418 edited (data generated by NextGen Sequencing)

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ATGGGCCCGCCGAGCCCTCCTGCTCCTGCTTCTGTCTTTTCTGGCGCCCTGGGCCACCATA
GCCCTCCGGCCGGCCTTAAGGGCCCTCGGCAGCCTACACTTGCCAACCAACCCACATCC
CTCCCGGCTGTAGCCAAGAAGCTATTCGGTCTCTACTTCCAACAGAAGGCCCTTGCTGCT
GGGCAGTTGCACATATGTATTATCCAATAAATCATTACAAGACTCCTCTGGTTGATCAT
TTTGATTTAATACTGTGAAAACCTTTAATCAGCGGTACCTAGTAGCTGATAAAATCTGG
AAGAAAAATGGTGGATCAATACTTTTCTACACTGGTAATGAAGGGGACATTATCTGGTTT
TGTAATAACACGGGGTTCATGTGGGATGTGGCTGAGGAACTGAAAAGCTATGTTGGTGT
GCTGAACATCGATACTATGGAGAGTCTCTCCCCTTTGGTGACAACTCATTCAAGGATTCC
AGACACTTGAATTTCTGACATCAGAACAAGCTCTGGCTGATTTTGCAGAGTTAATCAA
CACTTGAAAAGAACAATCCCAGGAGCTGAAAATCAACCTGTCATTGCCATAGGAGGCTCC
TATGGTGGCATGCTTGCCGCTGGTTTAGGATGAAATATCCTCATATGGTAGTTGGAGCT
CTTGACAGTCTGCCCCATCTGGCAGTTTGGAGATTTAGTACCTTGTGGTGTATTTATG
AAGATCGTAACTACAGATTTTAGGAAAAGCGGTCCACATTGTTTCCAGAGAGCATCCACAGG
TCCTGGGATGCCATTAATCGACTCTCAAATACTGGCAGTGGTTTGCAGTGGCTTACTGGA
GCCCTTCACTTATGCAGCCATTAACCTTCTCAGGACATCCAACATTTGAAAGACTGGATC
TCTGAAACCTGGGTGAATCTGGCAATGGTGGACTATCCTTATGCCTTAACTTTTACAG
CCTTTGCTGCTTGGCCTATCAAGGTAGTGTGCCAGTATTTGAAAAATCCCAATGTATCT
GATTCAGTCTGCTGCAGAAATTTTCCAAGCTCTGAATGTATATTACAATTTTCGGGC
CAGGTGAAATGCCTGAATATTTCCAGAGACGCAACTAGCAGTCTGGGAACACTGGGTTGG
AGCTATCAGGCCGTCACAGAAGTAGTCATGCCCTTTTGTACTAATGGTGTGATGACATG
TTTGAACCTCACTCATGGAACCTTAAAGGAACTTCTGATGACTGTTTTCAACAGTGGGT
GTGAGACCAAGGCCCTCCTGGATCACTACTATGTATGGAGGCAAAAACATTAGTTCACAC
ACAAAATTGTTTTAGCAATGGTGAACCTAGACCCTGGTCCAGGAGGTGGAGTAACATAAG
GATATCACAGACTCTGGTTCAGTACCATCTCAGAGGGGGCCACCCTTAGATCTC
CGCACCAAGAATGCCTTGGATCCTATGTCTGTGCTGTTAGCCCGCTCCTTGAAGTTAGA
CATATGAAGAATTGGATCAGAGATTTCTATGACAGTGGCGGAAAGCAGCACTGA
    
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Clone variation with respect to NM_199418.2

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_199418 unedited
GCATTGTATACGACTCCTATAGGGCCGGCCGGAATCGGCACGAGATGGGCCCGCCGAGCCC
TCCTGCTCCTGCTTCTGTCTTTTCTGGCGCCCTGGGCCACCATAGCCCTCCGGCCGGCCT
TAAGGGCCCTCGGCAGCCTACACTTGCCAACCAACCCACATCCCTCCCGGCTGTAGCCA
AGAATAATTCGGTCTCTACTTCCAACAGAAGGCCCTTGCTGCTGGGCAGTTGCACATAT
GTATTATCCAATAAATCATTACAAGACTCCTCTGGTTGATCATTTTGGATTTAATACTG
TGAAAACCTTTAATCAGCGGTACCTAGTAGCTGATAAATACTGGAAGAAAAATGGTGGAT
CAATACTTTTCTACACTGGTAATGAAGGGGACATTATCTGGTTTTGTAATAACACGGGT
TCATGTGGGATGTGGCTGAGGAACTGAAAAGCTATGTTGGTGTGTTGCTGAACATCGATACT
ATGGAGAGTCTCTCCCCTTTGGTGACAACTCATTCAAGGATTCAGACACTTGAATTTCC
TGACATCAGAACAAGCTCTGGCTGATTTTGCAGAGTTAATCAAACACTTGAAAAGAACA
TCCCAGGAGCTGAAAATCAACCTGTCATTGCCATAGGAGGCTCCTATGGTGGCATGCTTG
CCGCTGGTTTAGGATGAAATATCCTCATATGGTAGTTGGAGCTCTTGACAGTCTGCCCC
CTATCTGGCAGTTTGGAGATTTAGTACCTTGTGGTGTATTTATGAAGATCGTAACTACAG
ATTTTAGAAAAGCGGTCCACATTGTTTCCAGAGAGCATCCACAAGGTCCTGGGATGCCATTA
ATCGACTCTCAATACTGGCAGTGGTTTGCAGTGGCCTTACTGGAGCCCTTCACTTATGC
AGCCCATTAACCTCCTCAGGACCATC
    
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Restriction Sites:

Please inquire

ACCN:

NM_199418

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_199418.2 , NP_955450.2
RefSeq Size:	2224 bp
RefSeq ORF:	1554 bp
Locus ID:	5547
UniProt ID:	P42785
Cytogenetics:	11q14.1
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 (2) includes an alternate in-frame exon in the 5' coding region compared to variant 1. The encoded isoform (2) is longer than isoform 1. This isoform (2) may undergo proteolytic processing similar to 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>