

## Product datasheet for **SC116304**

### PCP4 (NM\_006198) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCP4 (NM_006198) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCP4
Synonyms:	PEP-19
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116304 sequence for NM_006198 edited (data generated by NextGen Sequencing) ATGAGTGAGCGACAAGGTGCTGGGGCAACCAATGGAAAAGACAAGACATCTGGTGAAAAT GATGGACAGAAGAAAGTTCAAGAAGAATTTGACATTGACATGGATGCACCCAGAGACAGAA CGTGCAGCGGTGGCCATTCACTCAGTTCAGTTCAGAAAATTCCAGAAGAAGGCTGGGTCT CAGTCCTAG

Clone variation with respect to NM\_006198.2

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006198 unedited GCACGAGGGTGGAGCAGCGACCCCTGAGCAGTGTCTCTGTGCTGAGCGGCGGGACTGAG CTGTTGAGTTAGAGCCAACATGAGTGAGCGACAAGGTGCTGGGGCAACCAATGGGAAAAG ACAAGACATCTGGTGAAAATGATGGACAGAAGAAAGTTCAAGAAGAATTTGACATTGACA TGGATGCACCCAGAGACAGAACGTGCAGCGGTGGCCATTCACTCAGTTCAGAAAATTCC AGAAGAAGAAGGCTGGGTCTCAGTCCTAGTGGGAGAACCCCTCCTAGTCCACCTGAAAA CACCAAATCAACCATCATCTGTCAAGAAATTAAGAACAACACCCCTAGAGAGAAGTCA TCCACACACAATCCACACACGCATAGCAAACCTCCAATGCATGTACAGAAACCTGTGATA TTTATACCCTTGTAGGAAGGTATAGACAATGGAATTGTGAGTAGCTTAATCTCTATGTTT CTCTCCATTTTCTCCTCCTGCAACTATTTTCTTGATGTTGTAATAAAATGAAGTTAC GATGAGTGAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGGCCGCGTTCATAGCTGT TTCTTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCAAGTGCCTCTCCTGGCCCC TGNAAGTTGCCACTCCAGTGCCACCAGCCTTGTCTTAATANAATTAAGTTGCATCATT TGTCTGACTAGGTG
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_006198 unedited GCGGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTAACTCATCGTAACTTCATT TTATTACAACATCAAGGAAAATAGTTGCAGGAGGAATGAAAATGGAGAGAAACATAGAGA TTAAGCTACTCACAATCCATTGTCTATACCTTCTACAAGGGTATAAATATCACAGGTT TCTGTACATGCATTGGAGGTTTCTATGCGTGTGTGGATTGTGTGTGGATGACTTCTCTC TAGGGTGTGTTCTTTAATTTCTTGACAGATGATGGTTGAATTTGGTGTTCAGGTGG ACTAGGAGGGGTTCTCCACTAGGACTGAGACCCAGCCTTCTTCTTCTGGAATTTCTG AACTGAGACTGAATGGCCACCGCTGCACGTTCTGTCTCTGGTGCATCCATGTCAATGTCA AATTCTTCTTGAACCTTCTTCTGTCCATCATTTTCACCAATGTCTTGTCTTTCCATTG GTTGCCCCAGCACCTTGTGCTCACTCATGTTGGCTCTAACTCAACAGCTCAGTCCCGCC GCTCAGCACAGAGAACACTGCTCAGGGTCTGCTCCACCTCGTGCCGAATTCGCGGC CGCCCTATAGTGAGTCGATTACAAAATCTGACGGTTCCTAAACGAGCTCTGTTATA TAGACCTCCACCGTACACGCTACCGCCATTTGCGTCAACGGGGCGGNGTTATTACGA CATTNTGAAAAGTCCCGTTGATTTTGGTGCCAAAACAACTCCNATTGACGNTCAATGGG GTGGAGACTTGNAAAATCCCGTGAGTCAAACCGCTATCCACGCCCATNGNTGACTG CCAAAACCGCATACCATGTAATAGCGATGACTAATACGTANATGACTGCCAGTANGAA AAGTCCGTTAGGTCATGTACTGGGCATAATGCCAGGCGGCCCATTTACCGTCATTGCGTC AATAGGGGGCNGACTTGCATATGATCACTTGAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006198
<b>Insert Size:</b>	540 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_006198.2</a> , <a href="#">NP_006189.2</a>
<b>RefSeq Size:</b>	566 bp
<b>RefSeq ORF:</b>	189 bp
<b>Locus ID:</b>	5121
<b>UniProt ID:</b>	<a href="#">P48539</a>
<b>Cytogenetics:</b>	21q22.2

**Gene Summary:**

Functions as a modulator of calcium-binding by calmodulin. Thereby, regulates calmodulin activity and the different processes it controls (PubMed:19106096, PubMed:23204517, PubMed:27876793). For instance, may play a role in neuronal differentiation through activation of calmodulin-dependent kinase signaling pathways (PubMed:21491429). [UniProtKB/Swiss-Prot Function]