

## Product datasheet for **RN215788**

### **Pcp4 (NM\_001270538) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pcp4 (NM\_001270538) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pcp4  
**Synonyms:** pep-19; PEPZ19  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >RN215788 representing NM\_001270538  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAAAGACAAGACATCAGGAGATAATGGCAAAGTGCTCACTGCCAGAGGAGGAATGGAGAAGTGCTT  
GGCAGCATCCAGCCAGAACCTGCTCGGTCTCTAAGAAAGCCAAGAGGATCTGCAGTGGAAATGCCTCGT  
GGAGGCTCCTGAAATATATGGGCAGAAGAAGGTCCAAGAAGAATTTGATATCGACATGGATGCACCAGAG  
ACAGAGCGTGCAGCTGTGGCCATTCAGTCTCAGTTCAGAAAATCCAGAAGAAAAAGGCAGGATCACAGT  
CCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001270538  
**Insert Size:** 285 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).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



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<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>	<u>NM_001270538.2, NP_001257467.1</u>
<b>RefSeq Size:</b>	698 bp
<b>RefSeq ORF:</b>	285 bp
<b>Locus ID:</b>	25510
<b>Cytogenetics:</b>	11q11
<b>Gene Summary:</b>	<p>The protein encoded by this gene regulates H1 and H3.3 histone synthesis by binding to H1 and H3.3 histone mRNAs. The encoded protein can bind calmodulin as well, providing a possible link between calcium-dependent signals and histone metabolism. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2012]</p> <p>Transcript Variant: This variant (2) contains an alternate exon compared to variant 1, which causes a frameshift and use of a different start codon compared to variant 1. The resulting isoform (LPI) has a longer and distinct N-terminus compared to isoform PEP19. Experimental support for this transcript and isoform is provided in PMID:22020791 and PMID:17273800.</p>