

## Product datasheet for **SC325069**

### Prostatic Acid Phosphatase (ACPP) (NM\_001134194) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prostatic Acid Phosphatase (ACPP) (NM_001134194) Human Untagged Clone
Tag:	Tag Free
Symbol:	Prostatic Acid Phosphatase
Synonyms:	5'-NT; ACP-3; ACP3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001134194 edited  
 CAACATGAGAGCTGCACCCTCCTCCTGGCCAGGGCAGCAAGCCTTAGCCTTGGCTTCTT  
 GTTTCTGCTTTTTTCTGGCTAGACCGAAGTGTACTAGCCAAGGAGTTGAAGTTTGTGAC  
 TTTGGTGTTCGGCATGGAGACCGAAGTCCCATTGACACCTTTCCCACTGACCCATAAA  
 GGAATCCTCATGGCCACAAGGATTTGGCCAACCTACCCAGCTGGGCATGGAGCAGCATT  
 TGAACCTGGAGAGTATATAAGAAAGAGATATAGAAAATCTTGAATGAGTCTATAAACA  
 TGAACAGGTTTATATTCGAAGCACAGACGTTGACCGGACTTTGATGAGTGTATGACAAA  
 CCTGGCAGCCCTGTTTCCCCCAGAAGGTGTCAGCATCTGGAATCCTATCCTACTCTGGCA  
 GCCCATCCCGGTGCACACAGTTCCTCTTCTGAAGATCAGTTGCTATACCTGCCTTTCAG  
 GAACTGCCTCGTTTTCAAGAACTTGAGAGTGAGACTTTGAAATCAGAGGAATCCAGAA  
 GAGGCTGCACCCTTATAAGGATTTTATAGCTACCTTGGGAAAACCTTTCAGGATTACATGG  
 CCAGGACCTTTTTGGAATTTGGAGTAAAGTCTACGACCCTTTATATTGTGAGAGTGTTC  
 CAATTTCACTTTACCCTCCTGGGCCACTGAGGACACCATGACTAAGTTGAGAGAATTGTC  
 AGAATTGTCCTCCTGTCCCTCTATGGAATTCACAAGCAGAAAGAGAAAATCTAGGCTCCA  
 AGGGGGTGTCTGTCAATGAAATCCTCAATCACATGAAGAGAGCAACTCAGATACCAAG  
 CTACAAAAAACTCATCATGTATTCTGCGCATGACACTACTGTGAGTGGCCTACAGATGGC  
 GCTAGATGTTTACAACGGACTCCTTCTCCCTATGCTTCTTGCCACTTGACGGAATTGTA  
 CTTTGAGAAGGGGGAGTACTTTGTGGAGATGTACTATCGGAATGAGACGCAGCACGAGCC  
 GTATCCCCTCATGCTACCTGGCTGCAGCCCCAGCTGTCTCTGGAGAGGTTTGTGAGCT  
 GGTTGGCCCTGTGATCCCTCAAGACTGGTCCACGGAGTGTATGACCACAAACAGCCATCA  
 AGTTCTAAAGGTCATCTTTGCTGTTGCCTTTTGCCTGATATCTGCTGTCTAATGGTACT  
 ACTGTTTATCCACATTCGCCGTGGACTCTGCTGGCAGAGAGAATCCTATGGGAACATCTG  
 AACAGACAGCTGGATAAGCCAGGCCAACCTCCTGTGACACAGCATCTCTCAGTGGTGCCG  
 CATCTAAAGGACAGGCTTTTGCATGTGGCATTGCCATCCTCACACCCTGCCTTTTGAA  
 TCTGCCAGAGCAGGGTCTGAACTCACAGTGACCCACAGACTGCTGCTGGATGAACACTC  
 AGGCTACCTAGTCTTCTCATAATGGAGTGGTAGTGCAGGCTGCTTGTTCAGCTAGAAAAG  
 AGGCTGTTATGCATAGGATGGTTGTATTCTCTGCCACAGTTGTCCGGAGAGAAAATAAGAA  
 GCCAACTCCAATCAGCCTTTTACCTGCAAAGAGTGAAGGGTGAAGGTTGGACAAAGAC  
 ATAGATTAGAAAAATACTGGATATTGGGGGAAGTTAGACTAGAAGTATTATTATACAGGG  
 TGATTCTTACGAAAGAAGACCCAATCATAAATTATAAATAAACTTTTTATTAGCTATTA  
 AAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_001134194  
**Insert Size:** 1800 bp  
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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><a href="#">NM_001134194.1</a></u> , <u><a href="#">NP_001127666.1</a></u>
<b>RefSeq Size:</b>	1842 bp
<b>RefSeq ORF:</b>	1257 bp
<b>Locus ID:</b>	55
<b>UniProt ID:</b>	<u><a href="#">P15309</a></u>
<b>Cytogenetics:</b>	3q22.1
<b>Protein Families:</b>	Druggable Genome, Phosphatase, Transmembrane
<b>Protein Pathways:</b>	Riboflavin metabolism
<b>Gene Summary:</b>	<p>This gene encodes an enzyme that catalyzes the conversion of orthophosphoric monoester to alcohol and orthophosphate. It is synthesized under androgen regulation and is secreted by the epithelial cells of the prostate gland. An alternatively spliced transcript variant encoding a longer isoform has been found for this gene. This isoform contains a transmembrane domain and is localized in the plasma membrane-endosomal-lysosomal pathway. [provided by RefSeq, Sep 2008]</p> <p>Transcript Variant: This variant (2) differs at the 3' end compared to variant 1 and encodes a longer isoform (TM-PAP) with a distinct C-terminus compared to isoform PAP. TM-PAP is a type 1 transmembrane protein.</p>