

## Product datasheet for RC225669

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prostatic Acid Phosphatase (ACPP) (NM_001134194) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prostatic Acid Phosphatase
Synonyms:	5'-NT; ACP-3; ACP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225669 representing NM_001134194 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGAGCTGCACCCCTCCTCCTGGCCAGGGCAGCAAGCCTTAGCCTTGGCTTCTTGTCTGCTTTTT  
TCTGGCTAGACCGAAGTGTACTAGCCAAGGAGTTGAAGTTTGTGACTTTGGTGTTCGGCATGGAGACCG  
AAGTCCCATTGACACCTTCCCCTGACCCATAAAGGAATCCTCATGGCCACAAGGATTTGGCCAATC  
ACCCAGCTGGGCATGGAGCAGCATTATGAAGTGGAGAGTATATAAGAAAGAGGTATAGAAAATCTTGA  
ATGAGTCTATAAACATGAACAGGTTTATATTCGAAGCACAGACGTTGACCGGACTTTGATGAGTGCTAT  
GACAAACCTGGCAGCCCTGTTTCCCCCAGAAGGTGTCAGCATCTGGAATCCTATCCTACTCTGGCAGCCC  
ATCCCAGTGCACACAGTTCTCTTTCTGAAGATCAGTTGCTATACCTGCCTTTCAGGAAGTGCCTCGTT  
TTCAAGAAGTGGAGAGTGGAGTGGAGTGGAAATCAGAGGAATTCAGAAAGAGGCTGCACCCCTTATAAGGATT  
TATAGTACCTTGGGAAAATTTTCAAGGATTACATGGCCAGGACCTTTTGGAAATTTGGAGTAAAGTCTAC  
GACCCCTTATATTGTGAGAGTGTTCACAATTTCACTTTACCCTCCTGGGCCACTGAGGACACCATGACTA  
AGTTGAGAGAATTGTGAGAATTGTCCCTCCTGTCCCTCTATGGAATTCACAAGCAGAAAGAGAAATCTAG  
GCTCCAAGGGGTGTCTGGTCAATGAAATCCTCAATCACATGAAGAGAGCAACTCAGATACCAAGCTAC  
AAAAACTTATCATGTATTCTGCGCATGACACTACTGTGAGTGGCCTACAGATGGCGCTAGATGTTTACA  
ACGGACTCCTTCCCTCCTATGCTTCTTGCCACTTGACGGAATTGACTTTGAGAAGGGGGAGTACTTTGT  
GGAGATGTACTATCGGAATGAGACGCAGCAGCAGCCGTATCCCCTCATGTACTCTGGCTGCAGCCCCAGC  
TGTCTCTGGAGAGTTTGTGAGCTGGCTGGCCCTGTGATCCCTCAAGACTGGTCCACGGAGTGTATGA  
CCACAAACAGCCATCAAGTTCTAAAGGTCATCTTTGCTGTTGCCTTTGCCTGATATCTGCTGTCCTAAT  
GGTACTACTGTTTATCCACATTCGCCGTGGACTCTGCTGGCAGAGAGAATCCTATGGGAACATC

**ACGGT**ACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC225669 representing NM\_001134194  
 Red=Cloning site Green=Tags(s)

MRAAPLLLARAASLSLGFLLFFWLDERSVLAKELKFVTLVFRHGDRSPIDTFPTDPIKESSWPQGFQQL  
 TQLGMEQHYELGEYIRKRYRKFNLNESYKHEQVYIRSTVDVRTLMSAMTNLAALFPPEGVSIWNPILLWQP  
 IPVHTVPLSEDLQLLYLPRNCPRFQELESETLKSEEFQKRLHPYKDFIATLGKLSGLHGQDLFGIWSKVY  
 DPLYCESVHNFTLPSWATEDMTKLRELSLSSLYGIHKQKEKSRLQGGVLVNEILNHMKRATQIPSY  
 KKLIMYSAHDTTVSGLQMALDVYNGLLPPYASCHLTEL YFEKGEYFVEMYRNETQHEPYPLMLPGCSPS  
 CPLERFAELAGPVIPQDWSTECMTTNSHQVLKVI FAVAFCLISAVLMVLLFIHIRRGLCWQRESYGNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001134194

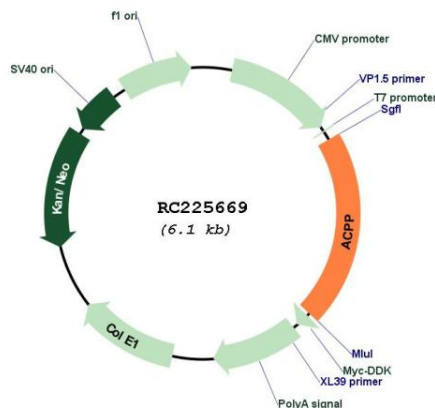
**ORF Size:** 1254 bp

**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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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_001134194.1, NP_001127666.1</u>
<b>RefSeq ORF:</b>	1257 bp
<b>Locus ID:</b>	55
<b>UniProt ID:</b>	<u>P15309</u>
<b>Cytogenetics:</b>	3q22.1
<b>Protein Families:</b>	Druggable Genome, Phosphatase, Transmembrane
<b>Protein Pathways:</b>	Riboflavin metabolism
<b>MW:</b>	48.31 kDa
<b>Gene Summary:</b>	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]

**Product images:**


Circular map for RC225669