

Product datasheet for **RC205079**

Prostatic Acid Phosphatase (ACPP) (NM_001099) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prostatic Acid Phosphatase (ACPP) (NM_001099) 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:	>RC205079 representing NM_001099 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGAGCTGCACCCCTCCTCCTGGCCAGGGCAGCAAGCCTTAGCCTTGGCTTCTTGTCTGCTTTTTT
TCTGGCTAGACCGAAGTGTACTAGCCAAGGAGTTGAAGTTTGTGACTTTGGTGTTCGGCATGGAGACCG
AAGTCCCATTGACACCTTCCCCTGACCCATAAAGGAATCCTCATGGCCACAAGGATTTGGCCAATC
ACCCAGCTGGGCATGGAGCAGCATTATGAACCTGGAGAGTATATAAGAAAGAGATATAGAAAATCTTGA
ATGAGTCTATAAACATGAACAGGTTTATATTCGAAGCACAGACGTTGACCGGACTTTGATGAGTGCTAT
GACAAACCTGGCAGCCCTGTTTCCCCCAGAAGGTGTCAGCATCTGGAATCCTATCCTACTCTGGCAGCCC
ATCCCGGTGCACACAGTTCTCTTTCTGAAGATCAGTTGCTATACCTGCCTTTCAGGAAGTGCCTCGTT
TTCAAGAAGCTTGAGAGTGAGACTTTGAAATCAGAGGAATTCAGAAAGAGGCTGCACCCCTTATAAGGATTT
TATAGCTACCTTGGGAAAATTTTCAAGGATTACATGGCCAGGACCTTTTGGAAATTTGGAGTAAAGTCTAC
GACCCTTTATATTGTGAGAGTGTTTCAATTTCACTTTACCCTCCTGGGCCACTGAGGACACCATGACTA
AGTTGAGAGAATTGTCAGAATTGTCCCTCCTGTCCCTCTATGGAATTCACAAGCAGAAAGAGAAATCTAG
GCTCCAAGGGGGTGTCTGGTCAATGAAATCCTCAATCACATGAAGAGAGCAACTCAGATACCAAGCTAC
AAAAAATTTATCATGTATTCTGCGCATGACACTACTGTGAGTGGCCTACAGATGGCGCTAGATGTTTACA
ACGGACTCCTTCCCTATGCTTCTTGCCACTTGACGGAATTGTACTTTGAGAAGGGGGAGTACTTTGT
GGAGATGCACTATCGGAATGAGACGCAGCAGGCGGTATCCCTCATGTACTCTGGCTGCAGCCCCAGC
TGTCTCTGGAGAGGTTTGTGAGCTGGTTGGCCCTGTGATCCCTCAAGACTGGTCCACGGAGTGTATGA
CCACAACAGCCATCAAGGTAAGTACTGAAGACAGTACAGAT

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205079 representing NM_001099
Red=Cloning site Green=Tags(s)

MRAAPLLLARAASLSLGFLLFFWLDERSVLAKELKFVTLVFRHGDRSPIDTFPTDPIKESSWPQGFQQL
 TQLGMEQHYELGEYIRKRYRKFNLNESYKHEQVYIRSTVDRTLMSAMTNLAALFPPEGVSIWNPILLWQP
 IPVHTVPLSEDLQLLPLFRNCPRFQELESETLKSEEFQKRLHPYKDFIATLGKLSGLHGQDLFGIWSKVY
 DPLYCESVHNFTLPSWATEDMTKLRELSLSSLYGIHKQKEKSRLQGGVLVNEILNHMKRATQIPSY
 KKLIMYSAHDTTVSGLQMALDVYNGLLPPYASCHLTEL YFEKGEYFVEMHYRNETQHEPYPLMLPGCSPS
 CPLERFAELVGPVIPQDWSTECMTTNSHQGTEDSTD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4783_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001099

ORF Size: 1158 bp

OTI Disclaimer: 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.

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:

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_001099.5](#)

RefSeq Size: 3089 bp

RefSeq ORF: 1161 bp

Locus ID: 55

UniProt ID: [P15309](#)

Cytogenetics: 3q22.1

Domains: acid_phosphat

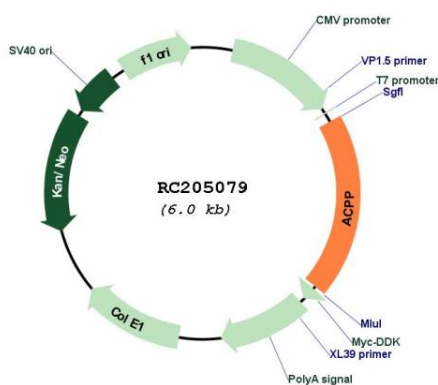
Protein Families: Druggable Genome, Phosphatase, Transmembrane

Protein Pathways: Riboflavin metabolism

MW: 44.54 kDa

Gene Summary: 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 RC205079