

Product datasheet for **RG237669**

Prostatic Acid Phosphatase (ACPP) (NM_001292037) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prostatic Acid Phosphatase (ACPP) (NM_001292037) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prostatic Acid Phosphatase
Synonyms:	5'-NT; ACP-3; ACP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237669 representing NM_001292037. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGAGAGCTGCACCCCTCCTCTGGCCAGGGCAGCAAGCCTTAGCCTTGCTTCTTGTCTGCTTTTT
TTCTGGCTAGACCGAAGTGTACTAGCCAAGGAGTTGAAGTTTGTGACTTTGGTGTTCGGCATGGAGAC
CGAAGTCCCATTTGACACCTTTCCACTGACCCCATAAAGGAATCCTCATGGCCACAAGGATTTGGCCAA
CTCACCAGCTGGGCATGGAGCAGCATTATGAACTTGGAGAGTATATAAGAAAGAGATATAGAAAATTC
TTGAATGAGTCTATAAACATGAACAGGTTTATATTCGAAGCACAGACGTTGACCGGACTTTGATGAGT
GCTATGACAAACCTGGCAGCCCTGTTTCCCCCAGAAGGTGTCAGCATCTGGAATCCTATCCTACTCTGG
CAGCCCATCCCGGTGCACACAGTTCTCTTTCTGAAGATCAGGATTTTATAGCTACCTTGGGAAAATT
TCAGGATTACATGGCCAGGACCTTTTTGGAATTTGGAGTAAAGTCTACGACCCTTTATATTGTGAGAGT
GTTCAAAATTTACTTTACCCTCCTGGGCCACTGAGGACACCATGACTAAGTTGAGAGAATTGTCAGAA
TTGTCCCTCCTGTCCCTCATGGAATTCACAAGCAGAAAGAGAAATCTAGGCTCCAAGGGGTGTCCTG
GTCAATGAAATCCTCAATCATGAAGAGAGCAACTCAGATACCAAGCTACAAAAAATCATCATGTAT
TCTGCGCATGACACTACTGTGAGTGGCCTACAGATGGCGCTAGATGTTTACAACGGACTCCTTCTCCC
TATGCTTCTTGCCACTTGACGGAATTGTACTTTGAGAAGGGGGAGTACTTTGTGGAGATGACTATCGG
AATGAGACGCAGCAGGACCGTATCCCCTCATGCTACCTGGCTGCAGCCCAGCTGTCCTCTGGAGAGG
TTTGCTGAGCTGGTTGGCCCTGTGATCCCTCAAGACTGGTCCACGGAGTGTATGACCACAACAGCCAT
CAAGTACTGAAGACAGTACAGAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237669
 Blue=ORF Red=Cloning site Green=Tag(s)

MRAAPLLARAASLSLGLFLLFFWLDRSVLAKELKFVTLVFRHGDRSPIDTFPTDPIKESWPGFGQ
 LTQLGMEQHYELGEYIRKRYRFLNESYKHEQVYIRSTVDVRLMSAMTNLAALFPPEGVSIWNPILLW
 QPVPVHTVPLSEDQDFIATLGLSLGHGQDLFGIWSKVYDPLYCESVHNF TLPWATEDMTKLRELSE
 LSLLSLYGIHKQKEKSRLQGGVLVNEILNHNKTRATQIPSYKKLIMYSAHDTTVSGLQMALDVYNGLLPP
 YASCHLTELVEKGEYFVEMYRNETQHEPYPLMLPGCSPSCPLERFAELVGPVLPQDWSTECMTTNSH
 QGTEDSTD
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001292037

ORF Size: 1059 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.

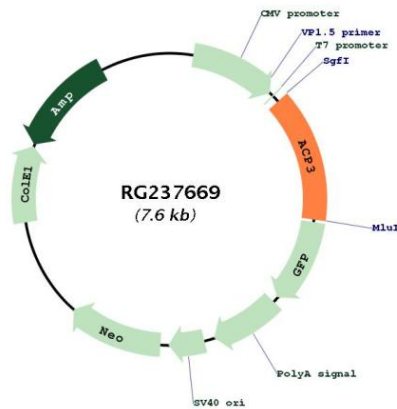
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM_001292037.2](#)

RefSeq Size: 3120 bp

RefSeq ORF:	1062 bp
Locus ID:	55
UniProt ID:	<u>P15309</u>
Cytogenetics:	3q22.1
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
Protein Pathways:	Riboflavin metabolism
MW:	40.4 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 RG237669