

Product datasheet for **RG220923**

ACP4 (NM_033068) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACP4 (NM_033068) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACP4
Synonyms:	ACPT; A11J
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220923 representing NM_033068 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGCTGGGGTTTTGGGGCCACCCTGCTGGACCTCTCCTGCTGCTGCTGCTGCTGGTGTGCCAC
CCCGGGCCCTGCCAGAAGGACCCCTGGTGTTCGTGGCTCTGGTATTCGCCATGGCGACCGGGCCCGCT
GGCCTCTACCCATGGACCCACACAAGGAGGTGGCTCCACCCTGTGGCCACGAGGCCTGGCCAGCTG
ACCACGGAGGGGTCCGCCAGCAGCTGGAGCTGGGCCGCTTCTGAGGAGCCGCTACGAGGCCTTCTGA
GTCCGGAGTACCGCGGGAGGAGGTGTACATCCGCAGCAGGACTTTGACCGCACGCTGGAGAGTGCCCA
GGCAACCTTGCCGGGCTGTTTCCCGAGGCTGCTCCAGGGAGCCCGAGGCCCGCTGGAGGCCGATCCCG
GTGCACACGGTGCCCGTGGCTGAGGATAAGCTGCTGAGGTTCCCATGCGCAGCTGTCCCGATACCACG
AGCTGCTGCGGGAGGCCACCGAGGCCGCGAGTACCAGGAGGCCCTGGAGGGCTGGACGGCTTCTCTGAG
TCGCCTGGAGAATTCACGGGACTGTGCTGGTTGGAGAGCCACTGCGCAGGGCATGGAAGGTTCTGGAC
ACCCTCATGTGCCAGCAAGCCACGGTCTTCCACTACCAGCCTGGGCCTCCCAAGATGTCCTGCGGACTC
TTGCCAGATCTCGCTTTGGATATTGGAGCCACGTGGGCCACCCCGGCAGCAGAGAAGGCCAGCT
GACAGGGGGATCCTGCTGAATGCTATCCTTGCAAATCTCCCGGTCCAGCGCCTGGGCTGCCCTC
AAGATGGTCATGTAAGTACTCAGCTCATGACAGCACCCCTGCTGGCCCTCCAGGGGGCCCTGGCCTCATGATG
GACACACCCCGCATATGCTGCCTGCCTCGGCTTTGAGTTCGGGAAGCACCTGGGGAATCCCGCAAAGA
TGGAGGAATGTACCGTCTCCCTCTTCTACCGCAATGACTCCGCCACCTGCCCTGCCTCTCAGCCTC
CCCGGGTCCCGGCCCTGTCCACTAGCCGCTTCTACCAGTACTGCCCCGGCCCGCTCCCGCC
ATGGGGTCTCCTGCCATGGCCCTATGAGGCTGCCATCCCCCAGCTCCAGTGGTGGCCCTGCTGGCCGG
AGCTGTAGCTGTGCTGGTGGCACTCAGCTTGGGGCTGGGCTGCTGGCCTGGAGACCAGGGTGCCTGCGG
GCCTTGGGGGGCCCGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220923 representing NM_033068
 Red=Cloning site Green=Tags(s)

MAGLGFWGHYPAGPLLLLLLLVLPPrALPEGLVFVALVFRHGDRAPLASYPMDPHKEVASTLWPRGLGQL
 TTEGVRQQLGRFLRSRYEAFLSPEYRREEVYIRSTDFDRTLESAQANLAGLFPEAAPGSPEARWRPIP
 VHTVPVAEDKLLRFPMRSCPRYHELLREATEAAEYQEALEGWTGFLSRLENFTGLSLVGEPLRRAWKVLD
 TLMCQQAHLPLPAWASPDVLRTLAQISALDIGAHVGPPrAAEKAQLTGGILLNAILANFSRVQRLGLPL
 KVMYSADHSTLLALQALGLYDGHTPPYAACLGFEFRKHLGNPAKDGGNVTVSLFYRNDSAHLPLPLSL
 PGCPCPLGRFYQLTAPARPPAHGVSCHGPYEAIPAPVVPLLAGAVAVLVALSLGLGLLAWRPGCLR
 ALGGPV

TRTRPLE – GFP Tag – V

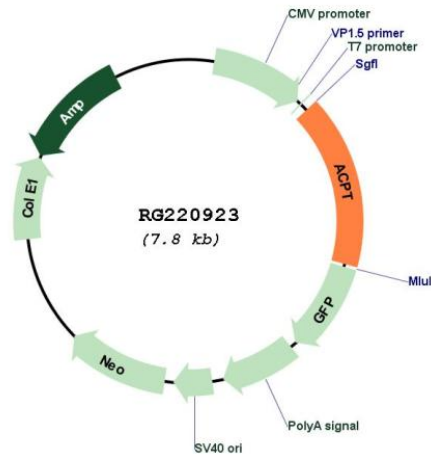
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_033068

ORF Size:	1278 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:	<ol style="list-style-type: none">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_033068.3
RefSeq Size:	1347 bp
RefSeq ORF:	1281 bp
Locus ID:	93650
UniProt ID:	Q9BZG2
Cytogenetics:	19q13.33
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Riboflavin metabolism
Gene Summary:	Acid phosphatases are enzymes capable of hydrolyzing orthophosphoric acid esters in an acid medium. This gene is up-regulated by androgens and is down-regulated by estrogens in the prostate cancer cell line. This gene exhibits a lower level of expression in testicular cancer tissues than in normal tissues. The protein encoded by this gene has structural similarity to prostatic and lysosomal acid phosphatases. Alternatively spliced transcript variants have been described, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]