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Product datasheet for RC220923

ACP4 (NM_033068) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACP4 (NM_033068) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACP4
Synonyms:	ACPT; AI1J
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC220923 representing NM_033068
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGGCCTGGGGTTTTGGGGCCACCCTGCTGGACCTCTCCTGCTGCTGCTGCTGGTGCTGCCAC
CCCGGGCCCTGCCAGAAGGACCCCTGGTGTTCGTGGCTCTGGTATTCCGCCATGGCGACCGGGCCCCGCT
GGCCTCCTACCCCATGGACCCACACAAGGAGGTGGCCTCCACCCTGTGGCCACGAGGCCTGGGCCAGCTG
ACCACGGAGGGGGTCCGCCAGCAGCTGGAGCTGGGCCGCTTCCTGAGGAGCCGCTACGAGGCCTTCCTGA
GTCCGGAGTACCGGCGGGAGGAGGTGTACATCCGCAGCACGGACTTTGACCGCACGCTGGAGAGTGCCCA
GGCCAACCTTGCCGGGCTGTTTCCCGAGGCTGCTCCAGGGAGCCCCGAGGCCCGCTGGAGGCCGATCCCG
GTGCACACGGTGCCCGTGGCTGAGGATAAGCTGCTGAGGTTCCCCATGCGCAGCTGTCCCCGATACCACG
AGCTGCTGCGGGAGGCCACCGAGGCCGCCGAGTACCAGGAGGCCCTGGAGGGCTGGACGGGCTTCCTGAG
TCGCCTGGAGAACTTCACGGGACTGTCGCTGGTTGGAGAGCCACTGCGCAGGGCATGGAAGGTTCTGGAC
ACCCTCATGTGCCAGCAAGCCCACGGTCTTCCACTACCAGCCTGGGCCTCCCCAGATGTCCTGCGGACTC
TTGCCCAGATCTCGGCTTTGGATATTGGAGCCCACGTGGGCCCACCCCGGGCAGCAGAGAAGGCCCAGCT
GACAGGGGGGATCCTGCTGAATGCTATCCTTGCAAACTTCTCCCGGGTCCAGCGCCTGGGGCTGCCCCTC
AAGATGGTCATGTACTCAGCTCATGACAGCACCCTGCTGGCCCTCCAGGGGGCCCTGGGCCTCTATGATG
GACACACCCCGCCATATGCTGCCTGCCTCGGCTTTGAGTTCCGGAAGCACCTGGGGAATCCCGCCAAAGA
TGGAGGGAATGTCACCGTCTCCCTCTTCTACCGCAATGACTCCGCCCACCTGCCCCTGCCTCTCAGCCTC
CCCGGGTGCCCGGCCCCCTGTCCACTAGGCCGCTTCTACCAGCTGACTGCCCCGGCCCGGCCTCCCGCCC
ATGGGGTCTCCTGCCATGGCCCCTATGAGGCTGCCATCCCCCCAGCTCCAGTGGTGCCCCTGCTGGCCGG
AGCTGTAGCTGTGCTGGTGGCACTCAGCTTGGGGCTGGGCCTGCTGGCCTGGAGACCAGGGTGCCTGCGG
GCCTTGGGGGGCCCCGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220923 representing NM_033068
Red=Cloning site Green=Tags(s)

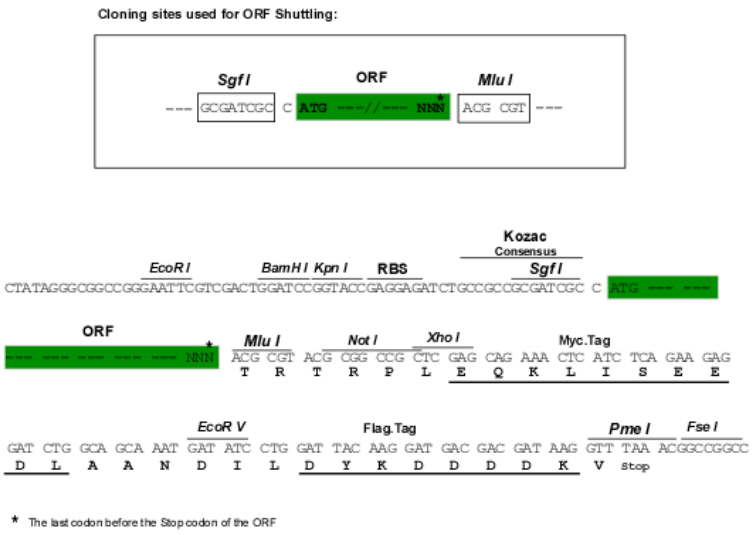
MAGLGFWGHPAGPLLLLLLLVLPPRALPEGPLVFVALVFRHGDRAPLASYPMDPHKEVASTLWPRGLGQL
TTEGVRQQLELGRFLRSRYEAFLSPEYRREEVYIRSTDFDRTLESAQANLAGLFPEAAPGSPEARWRPIP
VHTVPVAEDKLLRFPMRSCPRYHELLREATEAAEYQEALEGWTGFLSRLENFTGLSLVGEPLRRAWKVLD
TLMCQQAHGLPLPAWASPDVLRTLAQISALDIGAHVGPPRAAEKAQLTGGILLNAILANFSRVQRLGLPL
KMVMYSAHDSTLLALQGALGLYDGHTPPYAACLGFEFRKHLGNPAKDGGNVTVSLFYRNDSAHLPLPLSL
PGCPAPCPLGRFYQLTAPARPPAHGVSCHGPYEAAIPPAPVVPLLAGAVAVLVALSLGLGLLAWRPGCLR
ALGGPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8011_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:
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

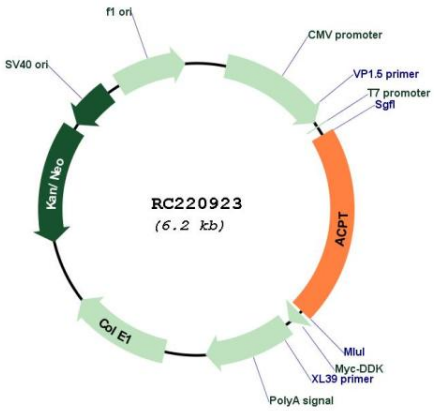
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Riboflavin metabolism

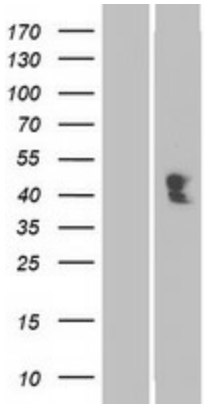
MW: 43.1 kDa

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]

Product images:



Circular map for RC220923



Western blot validation of overexpression lysate (Cat# [LY409777]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220923 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).