

Product datasheet for RC228313

CPA4 (NM_001163446) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CPA4 (NM_001163446) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CPA4
Synonyms: CPA3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC228313 representing NM_001163446
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGTGGATACTGTTTCATTGGGGCCCTTATTGGGTCCAGCATCTGTGGCCAAGAAAAATTTTTGGGG
ACCAAGTTTTGAGGATTAATGTCAGAAATGGAGACGAGATCAGCAAATGAGTCAACTAGTGAATTCAAA
CAACTTGAAGCTCAATTTCTGAAATCTCCCTCCTCCTCAATCGGCCTGTGGATGTCCTGGTCCCCTCT
GTCAGTCTGCAGGCATTTAAATCCTTCTGAGATCCCAGGGCTTAGAGTACGCAGTGACAATTGAGGACC
TGCAGATTTACCACGAGATGGACAACATTGCCGCAGACTTTCCTGACCTGGCGAGGAGGGTGAAGATTGG
ACATTCGTTTAAAACCGCCGATGTATGTACTGAAGTTCAGCACTGGGAAAGGCGTGAGGCGGCCGGCC
GTTTGGCTGAATGCAGGCATCCATTTCCCGAGAGTGGATCTCCAGGCCACTGCAATCTGGACGGCAAGGA
AGATTGTATCTGATTACCAGAGGGATCCAGCTATCACCTCCATCTTGGAGAAAATGGATATTTTCTGT
GCCTGTGGCCAATCCTGATGGATATGTGTATACTCAAACCTCAAACCGATTATGGAGGAAGACGCGGTCC
CGAAATCCTGGAAGCTCCTGCATTGGTGTGACCCAAATAGAACTGGAACGCTAGTTTTGCAGGAAAGG
GAGCCAGCGACAACCCTTGCTCCGAAGTGTACCATGGACCCACGCCAATTCGGAAGTGGAGGTGAAATC
AGTGGTAGATTTTCATCCAAAAACATGGGAATTTCAAGGGCTTCATCGACCTGCACAGCTACTCGCAGCTG
CTGATGTATCCATATGGGTACTCAGTCAAAAAGGCCCCAGATGCCGAGGAACTCGACAAGGTGGCGAGG
TTGCGGCCAAAGCTCTGGCTTCTGTGTCGGGCACTGAGTACCAAGTGGTCCACCTGCACCATGTCTA
TCCAGCTAGCGGGAGCAGCATCGACTGGGCGTATGACAACGGCATCAAATTTGCATTTCACATTTGAGTTG
AGAGATACCGGGACCTATGGCTTCTCCTGCCAGCTAACAGATCATCCCCTGCAGAGGAGACGTGGC
TGGGGCTGAAGACCATCATGGAGCATGTGCGGGACAACCTCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC228313 representing NM_001163446
Red=Cloning site Green=Tags(s)

MRWILFIGALIGSSICGQEKFFGDQVLRINVRNGDEISKLSQLVNSNNLKLNFWKSPSSFNRPVDVLVPS
 VSLQAFKSFRLSQGLEAVTIEDLQIYHEMDNIAADFPDLARRVKIGHSFENRPMYVLKFKSTGKGVRRPA
 VWLNAGIHSREWISQATAIWTARKIVSDYQRDPAITSILEKMDIFLLPVANPDGYVYTQTQNLWRKTRS
 RNPGSSCIGADPNRNWNASFAGKGASDNPCSEVYHGPHANSEVEVKSVDVFIQKHGNFKGFIDLHSYSQL
 LMPYGYSVKKAPDAEELDKVARLAAKALASVSGTEYQVGPTCTTVYPASGSSIDWAYDNGIKFAFTFEL
 RDTGTGYGFLLPANQIIPAEETWLGKTIMEHVRDNLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8056_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001163446

ORF Size: 1164 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_001163446.1](#), [NP_001156918.1](#)

RefSeq ORF: 1167 bp

Locus ID: 51200

UniProt ID: [Q9UI42](#)

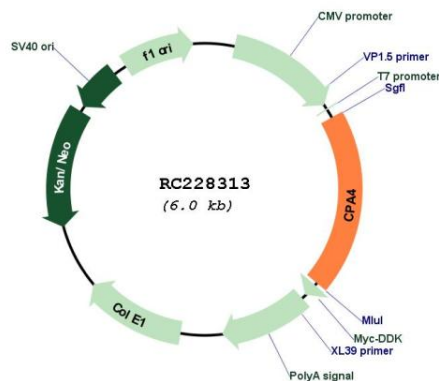
Cytogenetics: 7q32.2

Protein Families: Druggable Genome, Protease, Secreted Protein

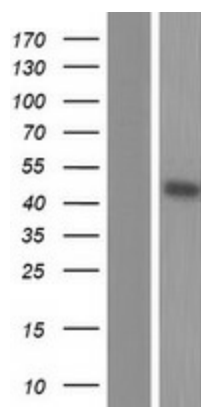
MW: 43.57 kDa

Gene Summary: This gene is a member of the carboxypeptidase A/B subfamily, and it is located in a cluster with three other family members on chromosome 7. Carboxypeptidases are zinc-containing exopeptidases that catalyze the release of carboxy-terminal amino acids, and are synthesized as zymogens that are activated by proteolytic cleavage. This gene could be involved in the histone hyperacetylation pathway. It is imprinted and may be a strong candidate gene for prostate cancer aggressiveness. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC228313



Western blot validation of overexpression lysate (Cat# [LY431341]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228313 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).