

Product datasheet for **RG208575**

CPA4 (NM_016352) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPA4 (NM_016352) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CPA4
Synonyms:	CPA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208575 representing NM_016352 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGTGGATACTGTTTCATTGGGGCCCTTATTGGGTCCAGCATCTGTGGCCAAGAAAAATTTTTGGGG
ACCAAGTTTTGAGGATTAATGTCAGAAATGGAGACGAGATCAGCAAATTTGAGTCAACTAGTGAATTCAAA
CAACTGAAGCTCAATTTCTGAAATCTCCCTCCTCCTCAATCGGCCTGTGGATGTCCTGGTCCCCTCT
GTCAGTCTGCAGGCATTTAAATCCTTCTGAGATCCCAGGGCTTAGAGTACGCAGTGACAATTGAGGACC
TGCAGGCCCTTTAGACAATGAAGATGATGAAATGCAACACAATGAAGGGCAAGAACGGAGCAGTAATAA
CTTCAACTACGGGGCTTACCATTCCCTGGAAGCTATTTACCACGAGATGGACAACATTGCCGAGACTTT
CCTGACCTGGCGAGGAGGGTGAAGATTGGACATTCGTTTAAAAACCGGCCGATGTATGACTGAAGTTCA
GCACTGGGAAAGGCGTGAGGCGGCCGCGCTTTGGCTGAATGCAGGCATCCATCCCGAGAGTGGATCTC
CCAGGCCACTGCAATCTGGACGGCAAGGAAGATTGTATCTGATTACCAGAGGGATCCAGCTATCACCTCC
ATCTTGGAGAAAAATGGATATTTTCTTGTGCTGTGGCCAATCCTGATGGATATGTGATACTCAAATC
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AAACTGGAACGCTAGTTTTGCAGGAAAGGAGCCAGCAGACAACCTTGTCCGAAGTGTACCATGGACCC
CACGCCAATTCGGAAGTGGAGGTGAAATCAGTGGTAGATTTTCATCCAAAAACATGGGAATTTCAAGGGCT
TCATCGACCTGCACAGCTACTCGCAGCTGCTGATGTATCCATATGGGTACTCAGTCAAAAAGGCCCCAGA
TGCCGAGGAACTCGACAAGGTGGCGAGGCTTGGCGCCAAAGCTCTGGCTTCTGTGTCGGGCACTGAGTAC
CAAGTGGGTCCCACCTGCACCACTGTCTATCCAGCTAGCGGGAGCAGCATCGACTGGGCGTATGACAACG
GCATCAAATTTGCATTACATTTGAGTTGAGAGATACCGGACTTATGGCTTCTCCTGCCAGCTAACCA
GATCATCCCCTGCAGAGGAGACGTGGCTGGGCTGAAGACCATCATGGAGCATGTGCGGGACAACCTC
TAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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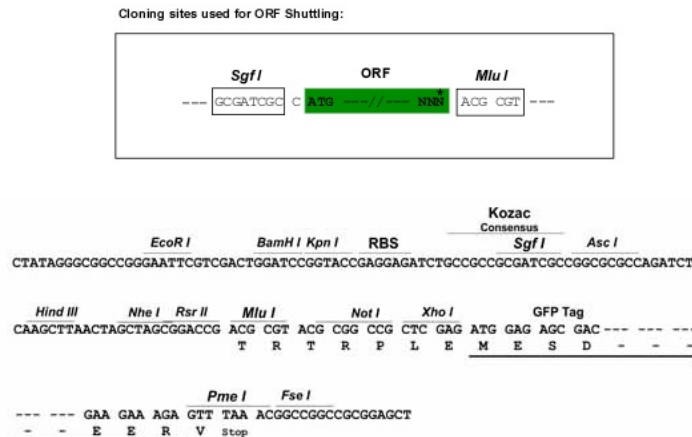
Protein Sequence: >RG208575 representing NM_016352
 Red=Cloning site Green=Tags(s)

MRWILFIGALIGSSICGQEKFFGDQVLRINVRNGDEISKLSQLVNSNNLKLNFWKSPSSFNRPVDVLVPS
 VSLQAFKSFLRSQGLEAVTIEDLQALLDNEDDEMQRNEGQERSNNFNFGAYHSLEAIYHEMDNIAADF
 PDLARRVKIGHSFENRPMYVLKFKSTGKGVRRPAVWLNAGIHSREWISQATAIWTARKIVSDYQRDPAITS
 ILEKMDIFLLPVANPDGYYVTQTQNRLLWRKTRSRNPGSSCIGADPNRNWNASFAGKGASDNPCSEVYHGP
 HANSEVEVKSVDVFIQKHGNFKGFIDLHSYSQLLMYPYGYSVKKAPDAEELDKVARLAALKALASVSGTEY
 QVGPTCTTVYPASGSSIDWAYDNGIKFAFTFELRDTGTYGFLLPANQIIPTAEETWLGLKTIMEHVRDNL
 Y

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016352

ORF Size: 1263 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_016352.2](#), [NP_057436.2](#)

RefSeq Size: 2807 bp

RefSeq ORF: 1266 bp

Locus ID: 51200

UniProt ID: [Q9UI42](#)

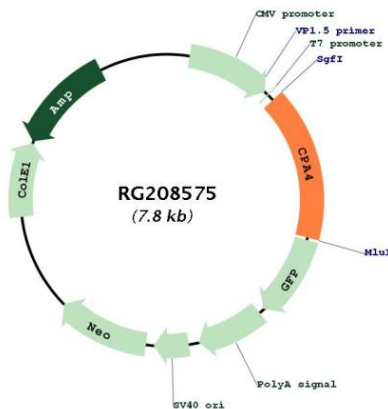
Cytogenetics: 7q32.2

Domains: Zn_carbOpept, Propep_M14

Protein Families: Druggable Genome, Protease, Secreted Protein

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 RG208575