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Product datasheet for RG228313

CPA4 (NM_001163446) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPA4 (NM_001163446) 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:

>RG228313 representing NM_001163446
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGTGGATACTGTTCATTGGGGCCCTTATTGGGTCCAGCATCTGTGGCCAAGAAAAATTTTTTGGGG
ACCAAGTTTTGAGGATTAATGTCAGAAATGGAGACGAGATCAGCAAATTGAGTCAACTAGTGAATTCAAA
CAACTTGAAGCTCAATTTCTGGAAATCTCCCTCCTCCTTCAATCGGCCTGTGGATGTCCTGGTCCCATCT
GTCAGTCTGCAGGCATTTAAATCCTTCCTGAGATCCCAGGGCTTAGAGTACGCAGTGACAATTGAGGACC
TGCAGATTTACCACGAGATGGACAACATTGCCGCAGACTTTCCTGACCTGGCGAGGAGGGTGAAGATTGG
ACATTCGTTTGAAAACCGGCCGATGTATGTACTGAAGTTCAGCACTGGGAAAGGCGTGAGGCGGCCGGCC
GTTTGGCTGAATGCAGGCATCCATTCCCGAGAGTGGATCTCCCAGGCCACTGCAATCTGGACGGCAAGGA
AGATTGTATCTGATTACCAGAGGGATCCAGCTATCACCTCCATCTTGGAGAAAATGGATATTTTCTTGTT
GCCTGTGGCCAATCCTGATGGATATGTGTATACTCAAACTCAAAACCGATTATGGAGGAAGACGCGGTCC
CGAAATCCTGGAAGCTCCTGCATTGGTGCTGACCCAAATAGAAACTGGAACGCTAGTTTTGCAGGAAAGG
GAGCCAGCGACAACCCTTGCTCCGAAGTGTACCATGGACCCCACGCCAATTCGGAAGTGGAGGTGAAATC
AGTGGTAGATTTCATCCAAAAACATGGGAATTTCAAGGGCTTCATCGACCTGCACAGCTACTCGCAGCTG
CTGATGTATCCATATGGGTACTCAGTCAAAAAGGCCCCAGATGCCGAGGAACTCGACAAGGTGGCGAGGC
TTGCGGCCAAAGCTCTGGCTTCTGTGTCGGGCACTGAGTACCAAGTGGGTCCCACCTGCACCACTGTCTA
TCCAGCTAGCGGGAGCAGCATCGACTGGGCGTATGACAACGGCATCAAATTTGCATTCACATTTGAGTTG
AGAGATACCGGGACCTATGGCTTCCTCCTGCCAGCTAACCAGATCATCCCCACTGCAGAGGAGACGTGGC
TGGGGCTGAAGACCATCATGGAGCATGTGCGGGACAACCTCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

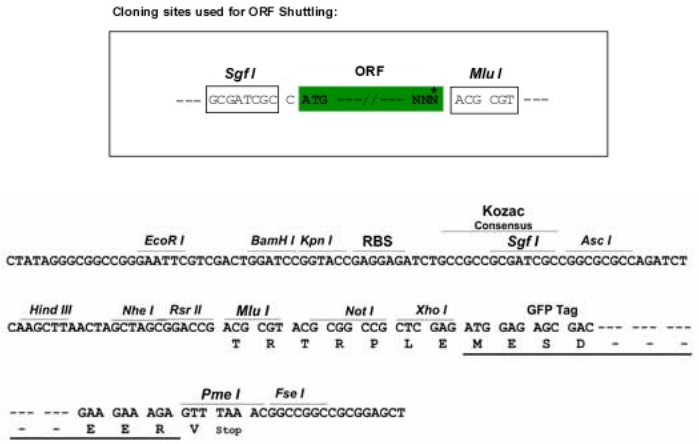
>RG228313 representing NM_001163446
Red=Cloning site Green=Tags(s)

MRWILFIGALIGSSICGQEKFFGDQVLRINVRNGDEISKLSQLVNSNNLKLNFWKSPSSFNRPVDVLVPS
VSLQAFKSFLRSQGLEYAVTIEDLQIYHEMDNIAADFPDLARRVKIGHSFENRPMYVLKFSTGKGVRRPA
VWLNAGIHSREWISQATAIWTARKIVSDYQRDPAITSILEKMDIFLLPVANPDGYVYTQTQNRLWRKTRS
RNPGSSCIGADPNRNWNASFAGKGASDNPCSEVYHGPHANSEVEVKSVVDFIQKHGNFKGFIDLHSYSQL
LMYPYGYSVKKAPDAEELDKVARLAAKALASVSGTEYQVGPTCTTVYPASGSSIDWAYDNGIKFAFTFEL
RDTGTYGFLLPANQIIPTAEETWLGLKTIMEHVRDNLY

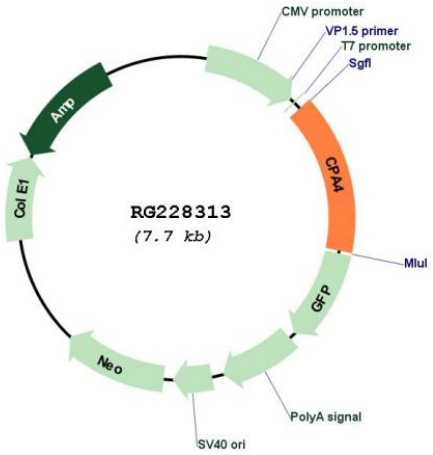
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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 Size:	2718 bp
RefSeq ORF:	1167 bp
Locus ID:	51200
UniProt ID:	Q9UI42
Cytogenetics:	7q32.2
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]