

Product datasheet for **RG203145**

CPA3 (NM_001870) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPA3 (NM_001870) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CPA3
Synonyms:	MC-CPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203145 representing NM_001870 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGCTCATCCTGCCTGTGGGTTTGATTGCTACCACTCTTGCAATTGCTCCTGTCCGCTTTGACAGGG
AGAAGGTGTTCCGCGTGAAGCCCCAGGATGAAAAACAAGCAGACATCATAAAGGACTTGGCCAAAACCAA
TGAGCTTGACTTCTGGTATCCAGGTGCCACCCACCACGTAGCTGCTAAAATGATGGTGGATTTCCGAGTT
AGTGAGAAGGAATCCCAAGCCATCCAGTCTGCCTTGGATCAAAAATAAAATGCACTATGAAATCTTGATTC
ATGATCTACAAGAAGAGATTGAGAAACAGTTTGATGTTAAAGAAGATATCCAGGCAGGCACAGCTACGC
AAAATAACAATAATTGGGAAAAGATTGTGGCTTGGACTGAAAAGATGATGGATAAGTATCCTGAAATGGTC
TCTCGTATTAATAATTGGATCTACTGTTGAAGATAATCCACTATATGTTCTGAAGATTGGGAAAAGAATG
AAAGAAGAAAGGCTATTTTTATGGATTGTGGCATTACGCACGAGAATGGGTCTCCCCAGCATTCTGCCA
GTGGTTTGTCTATCAGGCAACCAAACTTATGGGAGAAACAAAATATGACCAAACTCTTGGACCGAATG
AATTTTTACATCTTCTGTGTTCAATGTTGATGGATATATTTGGTCATGGACAAAGAACCAGCATGTGGA
GAAAAATCGTCCAAGAACCAAACTCCAATGCATCGGCACTGACCTCAACAGGAATTTAATGCTTC
ATGGAACCTCATTCTAACACCAATGACCCATGTGCAGATAACTATCGGGGCTCTGCACCAGAGTCCGAG
AAAGACGAAAGCTGTCACTAATTTTCATTAGAAGCCACCTGAATGAAATCAAGTTCATCACCTTCC
ATTCCTACTCCCAGATGCTATTGTTTCCCTATGGATATACATCAAACTGCCACCTAACCATGAGGACTT
GGCCAAAGTTGCAAAGATTGGCACTGATGTTCTATCAACTCGATATGAAACCCGCTACATCTATGGCCCA
ATAGAATCAACAATTTACCCGATATCAGGTTCTTCTTTAGACTGGGCTTATGACCTGGGCATCAAACACA
CATTTGCCTTTGAGCTCCGAGATAAAGGCAAATTTGGTTTTCTCCTTCCAGAATCCCGGATAAAGCCAAC
GTGCAGAGAGACCATGCTAGCTGTCAAATTTATTGCCAAGTATATCTCAAGCATACTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203145 representing NM_001870
 Red=Cloning site Green=Tags(s)

MRLILPVGLIATTLAIAPVRFDRKLVFRVVKPQDEKQADIKDLAKTNELDFWYPGATHHVAAKMMVDFRV
 SEKESQAIQSALDQNMHYEILIHDLQEEIEKQFDVKEDIPGRHSYAKYNNWEKIVAWTEKMMDKYPEMV
 SRIKIGSTVEDNPLYVLKIGEKNERKKAIFMDCGIHAREWVSPAFQWFVYQATKYGRNKIMTKLLDRM
 NFYILPVFNVDGYIWSWTKNRMWRKNRSKNQNSKICIGDLNRNFNASWNSIPNTNDPCADNYRGSAPASE
 KETKAVTNFIRSHLNEIKVYITFHYSYQMLLFPYGYTSKLPNHEDLAKVAKIGTDVLSRYETRYIYGP
 IESTIYPISGSSLDWAYDLGIKHHTFAFELRDKGKGFLLPESRIKPTCRETMLAVKFIKYLKHTS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001870

ORF Size: 1251 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_001870.1](#), [NP_001861.1](#)

RefSeq Size: 1633 bp

RefSeq ORF: 1254 bp

Locus ID: 1359

UniProt ID: [P15088](#)

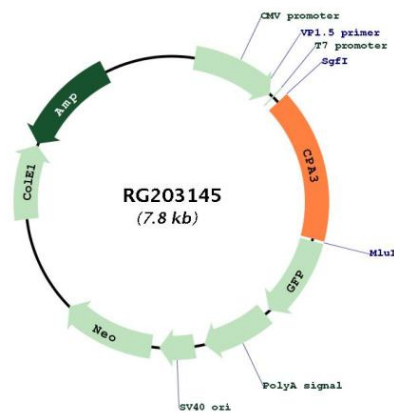
Cytogenetics: 3q24

Protein Families: Druggable Genome, Protease, Secreted Protein

Protein Pathways: Renin-angiotensin system

Gene Summary: This gene encodes a member of the carboxypeptidase A family of zinc metalloproteases. The encoded preproprotein is proteolytically processed to generate a mature protease that is released by mast cells and may be involved in the degradation of endogenous proteins and the inactivation of venom-associated peptides. Expression of this gene may be elevated in human asthma patients. [provided by RefSeq, Nov 2015]

Product images:



Circular map for RG203145