

Product datasheet for **RG207397**

CPA5 (NM_080385) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPA5 (NM_080385) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CPA5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207397 representing NM_080385 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGGGCACTCCTGGAGGCGGGACGCGCCCTGGGCCATCCCCCGTGGACAGGCGGACACTCCTGGTCT
TCAGCTTTATCCTGGCAGCAGCTTTGGGCCAAATGAATTTACAGGGGACCAGGTTCTTCGAGTCTGGC
CAAAGATGAGAAGCAGCTTTCACTTCTCGGGATCTGGAGGGCCTGAAACCCAGAAGGTGGACTTCTGG
CGTGGCCAGCCAGGCCAGCCCTCCCTGTGGATATGAGAGTTCCTTTCTCTGAACTGAAAGACATCAAAG
CTTATCTGGAGTCTCATGGACTTGCTTACAGCATCATGATAAAGGACATCCAGGTGCTGCTGGATGAGGA
AAGACAGGCCATGGCGAAATCCCGCCGGCTGGAGCGCAGCACCAACAGCTTCAGTTACTCATACACCAC
ACCCTGGAGGAGATATATAGCTGGATTGACAACTTTGTAATGGAGCATTCCGATATTGTCTCAAAAATTC
AGATTGGCAACAGCTTTGAAAACAGTCCATTCTGTCTGAAGTTCAGCACTGGAGTTCTCGGCACCC
AGCCATCTGGATTGACACTGGAATTCCTCCCGGAGTGGATCACCCATGCCACCGGCATCTGGACTGCC
AATAAGATTGTCAGTGATTATGGCAAAGACCGTGTCTGACAGACATACTGAATGCCATGGACATCTTCA
TAGAGCTCGTCACAAACCCTGATGGGTTTGCTTTACCCACAGCATGAACCGCTTATGGCGGAAGAACA
GTCCATCAGACCTGGAATCTTCTGCATCGGCGTGGATCTCAACAGGAAGTGAAGTGGGTTTTGGAGGA
AATGGTTCTAACAGCAACCCCTGCTCAGAACTTATCACGGGCCCTCCCCTCAGTCGGAGCCGGAGGTGG
CTGCCATAGTGAACCTCATCACAGCCCATGGCACTTCAAGGCTCTGATCTCCATCCACAGCTACTCTCA
GATGCTTATGTACCCCTACGGCCGATCGCTGGATCCCCTTTCAAATCAGAGGGAGTTGTACGATCTTGCC
AAGGATGCGGTGGAGGCCTTGATAAGGTCATGGGATCGAGTACATTTTGGCAGCATCAGCACCACCC
TCTATGTGGCCAGTGGGATCACCGTCTGACTGGGCTACGACAGTGGCATCAAGTACGCCTTCAGCTTTGA
GCTCCGGGACACTGGGCAGTATGGCTTCTGCTGCCGGCCACACAGATCATCCCCAGGCCACAGGAGACG
TGGATGGCGCTTCGGACCATCATGGAGCACACCCTGAATCACCCCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207397 representing NM_080385
Red=Cloning site Green=Tags(s)

MQGTPGGGTRPGPSPVDRRTLLVFSFILAAALGQMFTGDQVLRVLAKDEKQLSLLGDLEGLKPQKVDFW
 RGPARPSLPVDMRVPFSELKDIKAYLESHGLAYSIMIKDIQVLLDEERQAMAKSRRLERSTNSFSYSSYH
 TLEEIYSWIDNFVMEHSDIVSKIQIGNSFENQSILVLFKSTGGSRHPAIWIDTGIHSREWITHTATGIWTA
 NKIVSDYDKDRVLT DILNAMDFIELVTNPDGFAFTHSMNRLWRKNKSIRPGIFCIGVDLNRNWKSGFGG
 NGSNSNPCSETYHGSPSQSEPEVAIVNFITAHGNFKALISHSYSQMLMYPYGRSLDPVSNQRELYDLA
 KDAVEALYKVHIEYIFGSIISTTLVYASGITVDWAYDSGIKYAFSEFLRDTGQYGFLLPATQIIPTAQET
 WMALRTIMEHTLNHPY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080385

ORF Size: 1308 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_080385.3](#)

RefSeq Size: 2596 bp

RefSeq ORF: 1311 bp

Locus ID: 93979

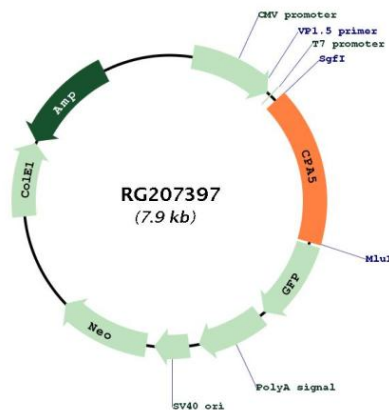
UniProt ID: [Q8WXQ8](#)

Cytogenetics: 7q32.2

Protein Families: Druggable Genome, Secreted Protein

Gene Summary: Carboxypeptidases have functions ranging from digestion of food to selective biosynthesis of neuroendocrine peptides. Members of the A/B subfamily of carboxypeptidases, such as CPA5, contain an approximately 90-amino acid pro region that assists in the folding of the active carboxypeptidase domain. Cleavage of the pro region activates the enzyme (Wei et al., 2002 [PubMed 11836249]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG207397