

## Product datasheet for **SC305781**

### CPA5 (NM\_080385) Human Untagged Clone

#### Product data:

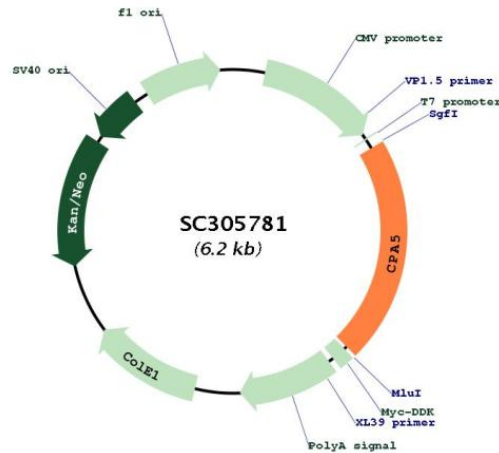
Product Type:	Expression Plasmids
Product Name:	CPA5 (NM_080385) Human Untagged Clone
Tag:	Tag Free
Symbol:	CPA5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC305781 representing NM_080385. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGGGCACCCCTGGAGGCGGGACGCGCCCTGGGCCATCCCCCGTGGACAGGCGGACACTCCTGGTC
TTCAGCTTTATCTGGCAGCAGCTTTGGGCCAAATGAATTTACAGGGGACCAGGTTCTTCGAGTCCTG
GCCAAAGATGAGAAGCAGCTTCTACTTCTCGGGGATCTGGAGGGCTGAAACCCAGAAGGTGGACTTC
TGGCGTGGCCAGCCAGGCCAGCCCTCCCTGTGGATATGAGAGTTCCTTTCTCTGAACTGAAAGACATC
AAAGCTTATCTGGAGTCTCATGGACTTGCTTACAGCATCATGATAAAGGACATCCAGGTGCTGCTGGAT
GAGGAAAGACAGGCCATGGCGAAATCCCGCCGGCTGGAGCGCAGCACCAACAGCTTCAGTTACTCATCA
TACCACACCCCTGGAGGAGATATATAGCTGGATTGACAACCTTGTAAATGGAGCATTCCGATATTGTCTCA
AAAATTCAGATTGGCAACAGCTTTGAAAACAGTCCATTCTTGTCTGAAAGTTCAGCACTGGAGGTTCT
CGGCACCCAGCCATCTGGATTGACACTGGAATCACTCCCGGGAGTGGATCACCCATGCCACCGGCATC
TGGACTGCCAATAAGATTGTCAGTGATTATGGCAAAGACCGTGTCTGACAGACATACTGAATGCCATG
GACATCTCATAGAGCTCGTCACAAACCCTGATGGGTTTGCTTTTACCCACAGCATGAACCGCTTATGG
CGGAAGAACAAGTCCATCAGACCTGGAATCTTCTGCATCGGCGTGGATCTCAACAGGAACTGGAAGTCG
GGTTTTGGAGGAAATGGTTCTAACGCAACCCCTGCTCAGAACTTATCACGGGCCCTCCCTCAGTCG
GAGCCGGAGGTGGCTGCCATAGTGAATTCATCACAGCCCATGGCAACTCAAGGCTCTGATCTCCATC
CACAGCTACTCTCAGATGCTTATGTACCCTACGGCCGATTGCTGGAGCCGTTTCAAATCAGAGGGAG
TTGTACGATCTTGCCAAGGATGCCGTGGAGCCTTGATAAAGTCCATGGGATCGAGTACATTTTGGC
AGCATCAGCACCACCTCTATGTGGCCAGTGGGATCACCGTCGACTGGGCCTATGACAGTGGCATCAAG
TACGCCTTACGCTTTGAGCTCCGGGACACTGGGCAGTATGGCTTCTGCTGCCGGCCACACAGATCATC
CCCACGGCCAGGAGACGTGGATGGCGCTTCGGACCATCATGGAGCACACCCTGAATCACCCCTACTAG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



**Plasmid Map:**


**ACCN:** NM\_080385

**Insert Size:** 1311 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_080385.4](#)

**RefSeq Size:** 2078 bp

**RefSeq ORF:** 1311 bp

**Locus ID:** 93979

**UniProt ID:** [Q8WXQ8](#)

**Cytogenetics:** 7q32.2

**Protein Families:** Druggable Genome, Secreted Protein

**MW:** 49 kDa

**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]  
Transcript Variant: This variant (1) encodes isoform (1). Variants 1, 2, and 4 encode the same isoform.