

Product datasheet for **RG225630**

CPA5 (NM_001127442) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPA5 (NM_001127442) 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:	>RG225630 representing NM_001127442 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGGGCACCCCTGGAGGCGGGACGCGCCCTGGGCCATCCCCCGTGGACAGGCGGACACTCCTGGTCT
TCAGCTTTATCCTGGCAGCAGCTTTGGGCCAAATGAATTTACAGGGGACCAGGTTCTTCGAGTCTGGC
CAAAGATGAGAAGCAGCTTTCACTTCTCGGGATCTGGAGGGCCTGAAACCCAGAAGGTGGACTTCTGG
CGTGGCCAGCCAGGCCAGCCCTCCCTGTGGATATGAGAGTTCCTTTCTCTGAACTGAAAGACATCAAAG
CTTATCTGGAGTCTCATGGACTTGCTTACAGCATCATGATAAAGGACATCCAGGTGCTGCTGGATGAGGA
AAGACAGGCCATGGCGAAATCCCGCCGGCTGGAGCGCAGCACCAACAGCTTCAGTTACTCATACACCAC
ACCCTGGAGGAGATATATAGCTGGATTGACAACTTTGTAATGGAGCATTCCGATATTGTCTCAAAAATTC
AGATTGGCAACAGCTTTGAAAACAGTCCATTCTTGCTCTGAAGTTCAGCACTGGAGGTTCTCGGCACCC
AGCCATCTGGATTGACACTGGAATTCCTCCCGGGAGTGGATCACCCATGCCACCGGCATCTGGACTGCC
AATAAGATTGTCAGTGATTATGGCAAAGACCGTGTCTGACAGACATACTGAATGCCATGGACATCTTCA
TAGAGCTCGTCACAAACCCTGATGGGTTTGCTTTTACCCACAGCATGAACCGCTTATGGCGGAAGAACA
GTCCATCAGACCTGGAATCTTCTGCATCGGCGTGGATCTCAACAGGAAGTGAAGTGGGTTTTGGAGGA
AATGGTTCTAACAGCAACCCCTGCTCAGAACTTATCACGGGCCCTCCCCTCAGTCGGAGCCGGAGGTGG
CTGCCATAGTGAAGTTCATCACAGCCCATGGCAACTTCAAGGCTCTGATCTCCATCCACAGCTACTCTCA
GATGCTTATGTACCCCTACGGCCGATTGCTGGAGCCCCTTCAAATCAGAGGGAGTTGATGTGGCCAGTG
GGATCACCGTTCGACTGGGCTATGACAGTGGCATCAAGTACGCCTTCAGCTTTGAGCTCCGGGACACTGG
GCAGTATGGCTTCTGCTGCCGGCCACACAGATCATCCCCACGGCCAGGAGACGTGGATGGCGCTTCGG
ACCATCATGGAGCACACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225630 representing NM_001127442
 Red=Cloning site Green=Tags(s)

MQGTGGGTRPGPSPVDRRTLLVFSFILAAALGQMNTGDQVLRVLAKDEKQLSLLGDLEGLKPQKVD
 RGPAPRSLPVDMRVPFSELKDIKAYLESHGLAYSIMIKDIQVLLDEERQAMAKSRRLERSTNSFSYSSYH
 TLEEIYSWIDNFVMEHSDIVSKIQIGNSFENQSILVLFKSTGGSRHPAIWIDTGIHSREWITHTATGIWTA
 NKIVSDYGGKDRVLTDLNAMDIFIELVTPDGFATHTSMNRLWRKNKSIKIRPGIFCIGVDLNRNWKSGFGG
 NGSNSNPCSETYHGSPQSEPEVAIVNFITAHGNFKALISHSYSQMLMYPYGRLLLEPVSNQRELMWPV
 GSPSTGPMTVASSTPSALSSGTLGSMASCCRPHRSSPRRRRGWRFGPSWSTP

TRTRPLE - GFP Tag - V

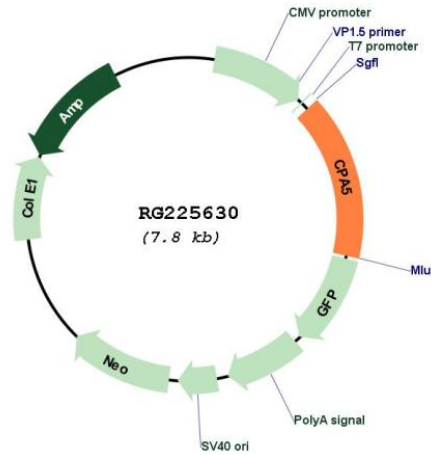
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001127442

ORF Size:	1209 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:	<ol style="list-style-type: none">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_001127442.2
RefSeq Size:	1884 bp
RefSeq ORF:	1212 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]