

## Product datasheet for **RG202720**

### Carboxypeptidase A (CPA1) (NM\_001868) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Carboxypeptidase A (CPA1) (NM_001868) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CPA1
Synonyms:	CPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202720 representing NM_001868 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGGGGGTTGCTGGTGTGAGTGTCTGTTGGGGGCTGTCTTTGGCAAGGAGGACTTTGTGGGCATC  
AGGTGCTCCGAATCTCTGTAGCCGATGAGGCCAGGTACAGAAGGTGAAGGAGCTGGAGGACCTGGAGCA  
CCTGCAGCTGGACTTCTGGCGGGGCCCTGCCACCCTGGCTCCCCATCGACGTCGAGTCCGCTTCCCC  
AGCATCCAGGCGGTCAAGATCTTCTGGAGTCCCACGGCATCAGCTATGAGACCATGATCGAGGACGTGC  
AGTCGCTGCTGGACGAGGAGCAGGAGCAGATGTTCCGCTTCCGGTCCCGGCGCGCTCCACCGACTTT  
TAACTACGCCACCTACCACACCTGGAGGAGATCTATGACTTCCTGGACCTGCTGGTGGCGGAGAACCCG  
CACCTTGTGCAAGATCCAGATTGGCAACACCTATGAAGGGCGTCCCATTACGTGCTGAAGTTACGCA  
CGGGGGGCGAGTAAGCGTCCAGCCATCTGGATCGACACGGGCATCCATTCCCGGGAGTGGGTACCCAGGC  
CAGTGGGGTCTGGTTTGCAAAGAAGTCACTCAAGACTACGGGCAGGATGCAGCTTTCACCGCCATTCTC  
GACACCTTGACATCTTCTGGAGATCGTACCAACCCCTGATGGCTTTCGCTTACGCACAGCAGCAATC  
GCATGTGGCGCAAGACTCGGTCCACACAGCAGGCTCCCTCTGTATTGGCGTGGACCCCAACAGGAACTG  
GGACGCTGGCTTTGGGTGTCCGGAGCCAGCAGTAACCCCTGCTCGGAGACTTACCGCGGCAAGTTTGC  
AATCCGAAGTGGAGGTCAAGTCCATTGTAGACTTTGTGAAGGACCATGGGAACATCAAGGCCTTCATCT  
CCATCCACAGCTACTCCAGCTCCTCATGTATCCCTATGGCTACAAAACAGAACCAGTCCCTGACCAGGA  
TGAGCTGGATCAGCTTCCAAAGGCTGCTGTGACAGCCCTGGCCTCTCTACGGGACCAAGTTCAACTAT  
GGCAGCATCATCAAGCAATTTATCAAGCCAGTGAAGCACTATTGACTGGACCTACAGCCAGGGCATCA  
AGTACTCCTTACCTTCGAGCTCCGGGACACTGGGCGCTATGGCTTCTGCTGCCAGCCTCCAGATCAT  
CCCCACAGCCAAGGAGACGTGGCTGGCGCTTCTGACCATCATGGAGCACACCCTGAATCACCCCTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202720 representing NM\_001868  
 Red=Cloning site Green=Tags(s)

MRGLLVLSVLLGAVFGKEDFVGHQVLRISVADEAQVQKVKLEDELEHLQLDFWRGPAHGPSPIDVRVPPF  
 SIQAVKIFLESHGISYETMIEDVQSLLEEQEMFAFRSRARSTDTFNATYHTLEEIYDFLDLLVAENP  
 HLVSKIQIGNTYEGRPIYVLKFKSTGGSKRPAIWIDTGIHSREWVTQASGVWFVAKKITQDYGGQDAAF  
 TAILDTLDFLEIVTNPDGFAFTHSTNRMWRKTRSHTAGSLCIGVDPNPNWDAGFGLSGASSNPCSETYR  
 GKFA NSEVEVKSIYDFVKDHGNKAFISIHSYSQLLMYPYGYKTEPVPDQDELQLSKAAVTALASLYG  
 TKFNY GSIKAIYQASGSTIDWTYSQGIKYSFTFELRDTGRYGFLLPASQIIPTAKETWLALLTIMEHTLNHPY

TRTRPLE - GFP Tag - V

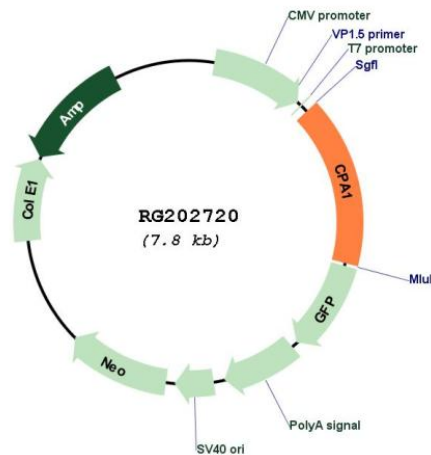
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001868

<b>ORF Size:</b>	1257 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001868.1</a> , <a href="#">NP_001859.1</a>
<b>RefSeq Size:</b>	1380 bp
<b>RefSeq ORF:</b>	1260 bp
<b>Locus ID:</b>	1357
<b>UniProt ID:</b>	<a href="#">P15085</a>
<b>Cytogenetics:</b>	7q32.2
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Protease, Secreted Protein
<b>Gene Summary:</b>	This gene encodes a member of the carboxypeptidase A family of zinc metalloproteases. This enzyme is produced in the pancreas and preferentially cleaves C-terminal branched-chain and aromatic amino acids from dietary proteins. This gene and several family members are present in a gene cluster on chromosome 7. Mutations in this gene may be linked to chronic pancreatitis, while elevated protein levels may be associated with pancreatic cancer. [provided by RefSeq, Jan 2015]